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	TICES IN THE CONSTRUCTION INDUSTRY H ARE SUBJECT TO LAWSUITS - PHASE 2
The Building	This research project was sponsored by Construction industry Advisory Committee under a grant from the State of Florida Department of Education
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PRACTICES IN THE CONSTRUCTION INDUSTRY WHICH ARE SUBJECT TO LAWSUITS PHASE 2

R 90-15

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I. EXECUTIVE SUMMARY

This project was conducted to complement and continue studies initiated under BCIAC Project R 89-6. The original study, which is referred to as Law I, examined practices in the construction industry that lead to lawsuits. Its objective was to identify causes rather than to fix blame or list legal winners and losers. Law I revealed a central theme of practitioner failure to tend to business. Both administrative and technical aspects of management were receiving inadequate attention, and practitioners were seen as losing control of their activities, projects, and companies.

The effort described in the remainder of this document which is to be called Law II, is an extension and expansion of that work. Under the Law II study, the research team surveyed a wider audience and has increased the specificity of inquiry to a substantial degree. The results of that survey reinforced the findings from Law I and raised the knowledge of relevant issues to a higher level. Although surveys are imperfect instruments of data generation, the research team was able to increase its reach to the problem sources and understand them better.

The principal effort of Law II was the development of four curriculum modules which can be used to explain and emphasize the lessons that were learned through investigating how practitioners get into trouble due to the way they go about the business of construction. Through the medium of instructional modules, the research team has tried to develop a theme of how to stay out of trouble. The four modules all can stand alone as instructional packages or be grouped together for presentation.

II. FINDINGS, CONCLUSIONS, and RECOMMENDATIONS

A. Findings

- The research team conducted a statewide survey of general contractors and sub-contractors. Firms were chosen at random from Blue Book listings and sent a questionnaire to fill out and return. The number of responses was satisfying from general contractors but disappointing for sub-contractors. The average business volume was five and four million dollars annual respectively for the two groups. Most firms had regular attorneys who were knowledgeable in construction. The cause or reason for getting into trouble that dominated responses to questions about the nature of problems was "poor workmanship." The high scoring result across all reasons for problem activity was that the contractor "lost money." question concerning modes of resolution for problems revealed that claims/disputes over "design documents" and "getting paid" were experienced most frequently. All categories of claims/disputes were resolved overwhelmingly by "negotiation without formal These findings were consistent with and extended proceedings." those from the Law I study.
- 2. The instructional modules reflect four areas of concern to the industry. They were prepared with the intent that they should be informative and also be helpful to practitioners in their day-to-day conduct of affairs. This project has focused as much on telling people how to do better as on telling them what they are doing wrong. The handout booklets, therefore, are intended to serve not only as instructor guidelines, but also as student or reader reference manuals. The modules were presented through local

sponsorship of two different industry groups. Attendance at the various sessions was consistent with that of other industry association seminars in this geographical region. The team found that attendance can be increased through aggressive marketing. Response of the attendees to the material has been positive with a high level of interest shown for the booklets.

B. Conclusions

The conduct of the study was unquestionably worthwhile. was possible to develop four discrete modules of instructional material to serve the industry. Each module has been presented to industry groups on two occasions for a total of eight instances. In addition, two outside presentations of combined Law I/Law II material have been made to date at regular industry association The research results have substantially upgraded the meetings. data base supporting the impact of legal issues on the construction industry. It has generated information leading to a far better understanding of the problem causes and preventive measures which The project promoted greater industry interaction are applicable. and action by drawing on industry associations to sponsor the Through this medium the team not only obtained presentations. involvement but provided a forum for interaction of participants. Finally, project activities enhanced the awareness of State agency backing for this project and other related activities by describing the role of BCIAC and Department of Education whenever possible.

c. Recommendations

1. That the content of this project be made available in the form of presentations to the construction industry associations or

groups around the State. Such presentations could be cast viably as continuing education or continuing professional development sessions. All members of the industry, no matter what their affiliation, would benefit.

- 2. That a project to continue expansion and upgrading of the data base be authorized. There is still much to be learned about the real economic impact of the industry problems the research team has been investigating. It is not inconceivable to imagine some restructurings of how the industry conducts business. It is obvious that there is a need to reduce internal strife and enhance the strength of the construction community's position versus strong external financial interests.
- 3. That a general Continuing Education Program be mandated for all licensed construction industry practitioners throughout the State of Florida.

III. PROJECTION

These courses or modules as the team has chosen to call them should be presented to a broader constituency than was reached in the study project. There is no reason why they should not be considered appropriate continuing education or development topics.

Each year, the instructional material (booklets) should be updated to reflect not only changes in the law but new information that emerges from continued data base development. This could be considered similar to a software maintenance activity. Such an activity on a regular basis would need some form of support.

The data base, instructional material, and research initiative in this area are unique and should not be abandoned.

IV. MAIN DISCUSSION

A. Background and Objectives

This project was originally conceived and proposed as a logical follow-on to the Law I Study funded by the BCIAC and the State Dept. of Education in May of 1990. That study had examined commonplace practices and modes of operation in the construction industry which are subject to or potentially lead to lawsuits. In addition to identification and subsequent verification of these features, the study attempted to quantify various levels of incidence among the features and/or their several sub-categories.

This basic assemblage and quantification of data provided the first known collection of statistical information in the field of construction looking at causes rather than outcomes. The initial effort identified the primary areas of concern in construction as it is practiced today and developed a basic curriculum designed to convey the nature and dimensions of the underlying causes for the high levels of legal intervention we experience.

A fundamental premise has been assumed for both the basic and this present study that the construction industry suffers from an unacceptably high level of dispute and litigation over practices and/or mispractices. Our objective has been to develop factual information on that issue and recommend measures to avoid/prevent similar occurrences. The basic study resulted in an educational module suitable to facilitate establishment of awareness. This present study which we shall call Law II, undertook to further the development of knowledge gained in Law I and to effect a broader dissemination of that knowledge through structure and presentation.

B. Approach, Technique and Scope

The approach to satisfying the requirements of this study was threefold. First to conduct a statewide survey building on the data generated in Law I. Second, to develop curriculum for the presentation of instruction on the four principal areas of business operation identified in Law I as sources of problems or disputes in the industry. And third, to present these modules of instruction to industry groups in an easily digestible format.

Survey The second survey was designed to increase and improve the data base developed in the first study. By organizing a set of questions directed at specific issues we had identified the first time, we were able to focus more directly and generate more data on: the basic operational factors which caused litigation, the nature of economic impact or results on contractors involved, and the immediate or first-level reasons for claims and/or disputes. Additionally, we sought data from respondents on levels of business volume to help us determine if responses to questions varied as a function of gross receipts; and on their use of attorneys to help us gauge the dimensions of the overall problem.

A random selection of contractors was made from the Blue Book listing of contractors in the State of Florida. Two mailings of four hundred and seventeen for general contractors and four hundred and sixty-nine for sub-contractors were made and sent out roughly thirty days apart. Response from the general contractors was significantly higher, approximately 21% against approximately 6% for sub-contractors. No attempt was made to determine if the

addressees were still viable businesses at the time of mailings and no preliminary screening was done to establish a minimum annual business volume for potential respondees. The low level of response compared to the level obtained for the survey in the first study leads us to suspect that several negative aspects may have been in force during the most recent effort.

The survey form is included in Appendix A. A short perusal will reveal that the format is somewhat more complex than a simple set of yes/no or fill-in-the-blank requirements. The graphic matrix which we used asked for a lot of information in a tight space. In retrospect, if it had been designed differently it might have appealed to more recipients and elicited more response. In surveys of this type, not every recipient is disposed to disclose information they may feel is sensitive, and some are still so angry from the process and outcome of legal action that their responses are less than accurate. Future surveys in the legal issues area would probably benefit from telephone contact to screen for appropriateness, as well as follow-up with the questionnaire, particularly outside the area where the inquiring party is generally known. Also, telephone contact could readily confirm whether an addressee is a viable business or not. A final, but very important, downside consideration is that this survey was conducted during the peak of the 1991-1992 recessionary times when some estimates placed unemployment in the construction industry as high as fifty percent and many listed businesses were simply no longer in business.

The data gleaned from the survey is presented in this report

in several ways. Raw data, a table of responses, data charts, and a copy of the survey itself are all part of the Appendices. Significant observations from the analysis are discussed in this section. Raw data for all of the questions as a body reveal a characteristic that is consistent throughout. Responses from the generals reflect a greater attempt to answer the questions accurately and provide unsolicited constructive comments. Perhaps this is a measure of their better grasp of the business aspects of contracting, or of their stronger business positions, or of the organizational role of the individual respondee allowing him greater detachment from the everyday operational problems. We do not know. So although the data is informative and intriguing, we are left with many questions yet to be asked that will lead us to the next level of knowledge.

The survey questions were focused on three areas. Responses to the questions have been compilated as raw data and presented in a format similar to the questionnaire. These raw data results are presented in Appendix B. and can be noted to clarify the following discussions. The graphs in Appendix D. augment this simple listing of the raw data count.

The first area of the survey questions had to do with nominal identification of respondee category, the size of his business volume and whether the respondees had customary (regular) or ad hoc relationships with attorneys, and whether those attorneys were knowledgeable in the field of construction. This allowed us to consider generals and sub-contractors separately, and also to observe the content and quality of responses as a function of

business dollar volume and of attorney relationships.

The second area dealt with causal factors that respondees felt problems they had experienced were traceable to. A listing of ten reasons and eight choices of results was given. Through this we hoped to gain some insight to the relative incidence of outcomes, or more plainly said to the relative incidence of the various impacts that disputable problems have had on contractors. The responses were strikingly consistent with what Law I had led us to suspect. "Poor workmanship" was the overwhelming leader of indicated reasons, with "defective estimates" and "defective materials" tied for second place. "Poor scheduling" and "failure to understand contracts" also scored high. In terms of resolution, most respondents said that they "lost money" followed by "agreement within the traditional client, A/E, contractor triangle." interesting to note that in the "lost money" category, the predominant causes were "defective estimate," "poor workmanship," and "failure to read/understand contract" ranked in that order.

The third area of survey had to do with problem resolution. Here we attempted to determine the kinds of issues respondees had claims or disputes over, and how these were resolved. Again we provided a choice: a list of twelve claim/dispute reasons combined with a list of six resolution types. The responses to this section continued to reinforce our findings from Law I at the same time that they gave us more detailed information about the interrelation of issues and resolutions.

"Design Errors and Omissions" has long been known as the leading cause of litigation in the industry. Here in the survey we

provided a spectrum of outcomes or resolutions leading up to litigation as the most complex and costly to the contractor. It is noteworthy that claims/disputes over design documents leads the list of problems as identified by contractors. We can postulate several possible reasons for this phenemenon. They have to do with professionalism, pressures of time and money, the role played by the designers. These are complex issues in themselves and merit considerable analysis and discussion beyond our present scope.

A close second in terms of designated problems was the category of "getting paid." This was the leading issue in Law I where we had asked for identification of issues as a function of involvement in litigation. When we look more closely at our data matrix here in Law II we see a similar leading count for the intersection of "getting paid" and the two types of litigation as modes of resolution. Perhaps the most striking revelation in the data is the overwhelming number of claims/disputes that were settled by "negotiation without formal proceedings." This, of course, is consistent with our posture of advocacy that claims/disputes should be settled in this manner if the parties to the issue find it at all possible to do so.

The survey questionnaire and the raw data counts are included under Appendices A & B. The raw data has been converted into a number of graphic charts providing a more visual representation of quantification and comparison. The charts are ideal for photocopying of overhead transparencies to assist in classroom or seminar discussion of the issues. The charts are included in this report under Appendix D.

<u>Curriculum Development</u> Four curriculum modules were developed in an instructional form that can also serve as class handouts or simply as self-tutorial booklets. These module areas correspond directly to the central theme identified in the Law I study and to the instructional module which it generated.

The four new modules and the topic contents are:

1. Contracts
2. Bonds
Risk Shifting
Insurance
Retainage
Financing
Termination
Credit

3. The Lien Law
4. Scheduling
Waivers
Delays
Releases
Claims
Dispute Resolution
Change Orders

In each case the modules were prepared as cooperative efforts with the lead writing role being filled by knowledgeable persons who later also made the initial presentations. The material was upgraded as a result of feedback in the presentation sessions and appears in that adjusted form in Section V. of this report.

Presentations Two series of presentations were scheduled and conducted for the modules. Each module is self-contained and can be presented independently of the others. The presentation material for each module is designed to cover about two and a half hours with time at the end to accommodate questions and answers. A decision was made to seek sponsors for these presentations in the hope that an audience that was wider and more representative of the

industry in South Florida could be reached.

The Broward Builders Exchange sponsored the first series as part of their regular monthly seminars and scheduled the four presentations over a five-month period. Extensive notices of the sessions were sent out to the four-hundred-plus person membership of the Exchange in the regular mailings every week or two. The sessions were held in the Exchange meeting room in Ft. Lauderdale. Attendance averaged twenty persons per session and the make-up of the attendees varied widely from one session to the next. Response to the presentations was very positive, with a number of subsequent requests in after weeks for additional copies of the handouts. We furnished these from the original printings which had included several dozen extra copies.

The second series of presentations was sponsored by the South Florida ABC. Once again we spaced the sessions out so we would not impose too great a demand on time for the audience we hoped to reach. These sessions were scheduled over a slightly different time, overlapping the first group somewhat but occurring in four months instead of five and being presented in a different location. The first of the sessions was presented in Miami in the vicinity of Miami Airport. This was a reasonably central location for Dade County and we had the largest turnout (over thirty registered attendees) of both series at this location. The remaining three sessions were conducted at Miami Lakes which is in North Central Dade close to the Broward line. This locational change was a concession to ABC who wanted to draw from the northern counties as well. Although we experienced extremely bad weather on two of the

three evenings in Miami Lakes, attendance seemed to suffer in contrast to the session farther down in Dade. Perhaps this was due to the previous series at the Builders Exchange drawing down on the market pool for Miami Lakes. In any event, attendance at the three remaining sessions averaged slightly under twenty persons. Despite this, the level of interest and expressed satisfaction in the sessions remained high and we continued to have requests for copies of the handout booklets after the last presentation.

Copies of the seminar announcements and registration forms that were mailed out to members of the sponsoring organizations are included under Appendix C. While the earlier notices reflect the identity of those organizations very prominently, on the guidance of BCIAC the announcement format was revised as illustrated for the latter half of the scheduled sessions. It should be noted that prior to the second series sponsored by ABC, an extra promotional flyer encouraging general participation was sent out. This was just prior to the seminar where we had the greatest attendance. There is probably some correlation between the two events and that could establish a strong argument for similar flyers in all future similar situations.

As a direct result of the presentations, the Project Director was invited to speak at the monthly dinner meeting of South Florida ABC in the month of May, and at the September dinner meeting of the Gold Coast Electrical Contractors Association. These engagements at request of the host organizations were consummated by presenting condensed versions of the Law I study augmented with partial data from Law II. The Project Director has been tentatively scheduled

to address the Gold Coast Electrical Contractors Association again.

C. Benefits

There are four distinct benefits that have accrued as a result of this study and its activities. They are identified and detailed as follows:

<u>Defined Educational Packages</u> - Four discrete modules of instructional material have been developed to serve the industry in several ways. The material can be used as an instructor's package to prepare and present seminars on the topics which have been addressed. The material can be used as a class handout to students as a teaching aid to facilitate their comprehension of the subject matter. And, the material can be used as a self-study guide by those wishing to refresh or update their knowledge, or by those first learners of the lessons.

Expanded Data Base - This study has expanded the data base for development of analysis and information in this important and little understood area of construction industry activities. It is not known how large a percent of industry dollar volume is consumed by the resolution of claims/disputes, or realistically how much of that could be avoided. It may never be possible to fully develop and comprehend these figures. However, it is of inestimable value to have data beginning to point direction for industry improvement and adjustment from a course that seems destined to paralyze the industry. The kind of data generated in Law I and Law II is not known to exist anywhere else. Considering the confidence it gave to our selection of instructional subject matter to develop, it is appropriate to believe that futher benefit can be derived from

continued expansion and refinement of this data base focused on contractor actions: causes and results, problems and resolutions.

Greater Industry Interaction and Action - Under the mantle of this study and its products, we have consistently encouraged the industry, through those members we have contact with, to work as a single body toward common goals rather than as disparate units bent on maximizing their own parochial interests at the expense of all the rest. Each seminar provided a forum for the voicing of concerns and frustrations without fear of retribution. Many were expressed, especially about the perceived practices of financial manipulation and withholding of payment. The sharing of experiences and the ways problems have been resolved was a vocal extension of our survey and helpful to all who participated. When continuing education is finally mandated for all supervisory persons in the industry, it should conform to this unifying philosophy rather than perpetuating the industry's well-known fragmentation.

Enhanced State Agency Awareness and Initiatives - The seminars served as a medium to make the industry aware of BCIAC and its role in trying to address industry problems. They also reinforced the idea of the state as the dominant policy-making body that is able to most influence the conduct of business and the misconduct of its practitioners. When the state takes initiatives to examine problems, there is a hope in the citizenry that beneficial adjustment is not far behind. So it is with practices and pitfalls in the industry that lead to law suits. There is new hope in a small segment of the construction industry that the state is going to help make things better.

D. Conclusion

This study has expanded our knowledge of practices in the industry and problems that they generate. We have learned much more about the incidence of certain results of our deeds and misdeeds; also, we have learned much more about the nature of resolution for our various claims and disputes. This knowledge has been achieved by increasing the very useful data base started under Law I and adding to its dimensions as well as to its size. Finally, we have established a basic store of instructional material that can be updated and presented many times over to industry groups and individuals.

The product of this study responded to a real need in the industry. That need is for more knowledge about what we are doing wrong and the prescriptive medicine necessary to help us do better. The complexity of any game is a partial function of the number of players involved. Construction is a prime example. It is rarely possible to control adverse actions of the opposition, especially if they enjoy a number of players or are comprised of several opposing groups. It is possible, however, to gain advantage by winning over some of the opposition to become home-team players and to build team objectivity and unity of purpose. Industry progress in this direction will preclude much of the conflict and pursuit of vested interest that we see today. Real progress is gained through knowledge and we must foster a climate to continue development and dissemination of that knowledge.

V. THE COURSES

- A. Module I CONSTRUCTION CONTRACTS AND RISKS
- B. Module II BONDS, INSURANCE, CREDIT & FINANCE
- C. Module III THE LIEN LAW, WAIVERS, RELEASES, & DISPUTE RESOLUTION
- D. Module IV SCHEDULING, DELAYS, CLAIMS & CHANGE ORDERS

B.C.I.A.C. SURVEY - LAW II

1 April 1992

Dear Construction Colleague: This survey is sponsored by the State of Florida Building Construction Industry Advisory Committee. It is intended to generate information to help you. Please complete this form and return it now. Your help will help us all.

PRACTICES & PITFALLS INQUIRY

PART I GENERAL INFORMATION	
1. You are: A. General Contrac	tor B. Sub-Contractor
 Your business dollar volume A. Last year B. Average last th 	
3. You have a regular attorney:	A. Yes B. No
4. Your regular attorney is kno- business: A. Yes B. No C. Unknown_	-litigation: A. Yes B. No
in construction -business: A. Yes	-litigation: A. Yes B. No C. Unknown
PART II CAUSAL FACTORS	
construction industry been involved	u as an individual or firm in the yed with a problem traceable to any so, please indicate how many times column, and the impact/s of those
REASON	# RESULT*
1. Failure to Read/Understand Contract 2. Defective Estimate 3. Lack of Procedural Knowledge 4. Poor Scheduling 5. Poor Workmanship 6. Defective Materials 7. Procurement Delays 8. Wilfull Negligence 9. Lack of Financing-Self 10.Lack of Experience	a. b. c. d. e. f. q. h.
* <u>RE</u>	SULT
 a. Resolved within traditional b. Gained concessions c. Recovered from sub/sub-sub d. Made up loss elsewhere in pe. Lost money f. Terminated g. Business failed h. Unresolved 	

PART III PROBLEM RESOLUTION

Frequently construction problems escalate into formal disputes. Claims may be involved. Claims not resolved with a concession or change order become disputes. Documentation and legal advice are usually important features in both claims and disputes. Sometimes claims are originated by the contractor and sometimes claims are originated by the owner.

Please indicate your experience as an individual or firm in the following tables:

	CLAIM/DISPUTE		RE	<u>SOL</u>	<u>UTI</u>	<u>*ис</u>		
		<u>a.</u>	b.	c,	d.	е,	<u>f.</u>	_
1.	Incomplete, Defective, or	1		!	ţ	<u>!</u>	<u>!</u>	!
	Conflicting Design Documents	1 !	<u> </u>	!	!	<u>!</u>	<u>!</u>	!
2.	Unreasonable Personnel Attitudes	!!	<u> </u>	<u>!</u>	!	<u>!</u>	<u>!</u>	<u>!</u>
3.	Delay in Shop Drawing Review	<u> </u>	!	!	!	!	<u>! </u>	!
4.	Differing Site Conditions	1 1	<u>!</u>	!	<u>Į</u>	!	<u>!</u>	<u>!</u>
5.	Change in Scope	<u> </u>		!	<u>!</u>	<u> </u>	<u>!</u>	1
6.	Interence by Owner	<u> </u>		!	!	1	<u>!</u>	į.
7.	Failure to be Paid	1	!	<u>!</u>	!	<u>!</u>	<u>!</u>	<u>.</u>
8.	Non-performance by Sub-Contractor	1 !	<u> </u>	<u>!</u>	!	<u>!</u>	<u>!</u>	<u>:</u>
9.	Non-performance other than for	<u> </u>	!	<u>!</u>	<u>!</u>	!	<u>!</u>	1
	Non-payment by owner or general	1	<u>!</u>	!	!	<u>!</u>	<u>!</u>	Ţ
10.	Defective Construction	1	<u> </u>	!	<u>!</u>	!	<u>-</u>	
11.	Scheduling Delay	!	ļ .	<u>!</u>	<u>!</u>	<u>!</u>	<u>!</u>	<u>.</u>
12.	Personal Injury or Property Damage	1	<u>!</u>	<u>!</u>	!	!	<u>!</u>	ļ

*RESOLUTION

a. Negotiation without formal proceedings
b. Mediation - mutually agreed
c. Mediation - court ordered

- d. Arbitration
- e. Litigation settled without trial f. Litigation court decision

PART IV COMMENTS - Optional

Law II

Construction Survey

Raw Data

	R	law Data			
PART I					
Question 1.	You are: A. Gei	neral Cont	ractor B. Su	b-Contractor	
Answers:	Generals	88			
	Subs	29			
	All	117			
	AII	11/			
0		3-111			
Question 2.	Your business	dollar Aol	ume nas beer	1:	
	A. Last Year				
	B. Average las		ears		
Answers:	Last Year (x10	00)			
	Gene:	rals	Subs	All	
	Maximum 1000	00	45000	100000	
	Minimum	95	108	95	
	Average 50		4086	4837	
			1000		
	Last 3 Years (v1000\			
	Maximum 1780		40000	178000	
		50 	96	96	
	Average 57	55	4009	5323	
	-				
Question 3.	You have a reg	ular attor	ney:		
	A. Yes				
	B. No				
Answers:		Generals	Subs	All	
	Yes	74	24	98	
	No	15	5	20	
Question 4.	Your regular	attorne	y is know	wledgeable in	
210001011 11	construction	 ,	<u> </u>		
	-business:				
3	-pastuess.	Generals	Subs	All	
Answers:	**			92	
	Yes	69	23		
	No/Unknown	3	1	4	
	-litigation:				
	Yes	62	21	83	
	No/Unknown	4	1	5	
	•				
Question 5.	You have no	regular at	torney but	you use those	<u>;</u>
	knowledgeable			-	
	-business:				
Answers:	202	Generals	Subs	All	
WIISACT 9.	Yes	11	2	13	
		4	3	7	
	No/Unknown	*	,	•	
	7 3 4 3 4 3				
	-litigation:	•	^	•	
	Yes	9	0	9	
	No/Unknown	3	3	6	

Law II

Construction Survey

Raw Data

PART II CAUSAL FACTORS

Question: In the past three years, have you as an individual or firm in the construction industry been involved with a problem traceable to any of the reasons listed below?

Answers:

REASONS*

1/17/21	DO11D	
1.	Failure to Read/Understand Contract	64
2.	Defective Estimate	89
3.	Lack of Procedural Knowledge	17
4.	Poor Scheduling	71
5.	Poor Workmanship	135
6.	Defective Materials	89
7.	Procurement Delays	32
	Willful Negligence	12
9.		28
	Lack of Experience	4

RESULTS**

	a.	b.	c.	d.	e.	f.	g.	h.
1.	14	5	1	5	10	1		4
2.	3	5	3	4	23	1	-	1
3.	2	2	1	1	4	-	-	2
4.	8	2	1	4	6	2	-	2
5.	12	3	15	3	13	3	-	3
6.	6	5	13	2	4	_	_	-
7.	3	4	3	3	2	_	_	2
8.	_	2	3	_	2	-	-	-
9.	2	3	1	_	1	_	2	4
10.	1	1	_	-	1	<u>-</u>	-	-
	51	32	41	22	66	7	2	18

- a. Resolved within traditional client, A/E, contractor triangle
- b. Gained concessions
- c. Recovered from sub/sub-sub
- d. Made up loss elsewhere in project
- e. Lost money
- f. Terminated
- g. Business failed
- h. Unresolved

^{*}numbers based on total responses (#)

^{**}each response counted as one incident

Law II

Construction Survey

Raw Data

PART III PROBLEM RESOLUTION

Question: Indicate your experience in claim/dispute resolution.

Answers:

1.	Incomplete, Defective, or Conflicting	
	Design Documents	44
2.	Unreasonable Personnel Attitudes	33
3.	Delay in Shop Drawing Review	28
4.	Differing Site Conditions	25
5.	Change in Scope	33
6.	Interference by Owner	33
7.	Failure to be Paid	40
8.	Non-performance by Sub-Contractor	27
9.	Non-performance other than for	
	Non-payment by owner or general	12
10.	Defective Construction	16
11.	Scheduling Delay	25
12.	Personal Injury or Property Damage	15

	a.	b.	c.	d.	e.	f.
1.	35	3	_	3	2	1
2.	22	4	_	2	2	3
3.	24	1	_	2	1	-
4.	21	1	1	1	1	_
5.	25	3	-	_	3	2
6.	22	2	1	2	4	2
7.	16	4	1	3	11	5
8.	18	2	-	-	4	3
9.	9	-	-	1	1	1
10.	14	_	_	1		1
11.	21	-	-	2	2	-
12.	8	-	1	3	3	-
	235	20	4	20	34	18

- a. Negotiation w/o formal proceedings
- b. Mediation mutually agreed
- c. Mediation court ordered
- d. Arbitration
- e. Litigation settled w/o trial
- f. Litigation court decision



SONSTRUCTION CONTRACTS AND RISKS

focusing on practices and pitfalls in the construction industry that construction contract and the Module I of a four-part series allocation of risk within the are subject to lawsuits. seminar addresses the

Thursday Evening 6:30 - 9:30 p.m. January 30th

Conference Room at the

Broward Builders Exchange 3550 NW 9th Avenue

program is made possible through the efforts 8 BBE Education Committee and the 3roward School of Construction Management

business contacts are continually industry with a strong collective provided to firms in the Broward building trade. Vital publications voice in all matters offecting the The Broward Builders Exchange provides the construction and opportunities to build construction industry.





In the space provided below, please identify past or current problems and concerns that you would like covered during this seminar. These certainly can be specific or general. We will pass this information on to our speakers.

SEMINAR SCHEDULE

8:00 PV 6:45 PN 6:30 PN 7:30 PM Prof. Wilson C. Barnes, AlA Retainage Contracts Risk Shifting Introductory Remarks

9:30 PN

8:45 PN

Termination

Conclusion

WHO SHOULD ATTEND

attending this seminar: concept of a "contract," the nature of types of contract clauses. receive the most benefit from following professionals will especially dentification of risks within specific The module discusses the basic isk in a contract, and the

- Developers
- **Business Owners/Principals**
- Contractors Commercial/Residential
- Construction Managers
- Subcontractors
- Service Suppliers Material Suppliers
- Consultants

COST

members of the Exchange Exchange is 810 which includes all hand-out meterials. For those attending who are not Registrations must be made in advance. w for members of the Broward the fee shall be \$18.

SPEAKERS

Prof. Wilson C. Dept. of Construction Management FIU/Broward Barnes,

consulting engineer firm specializing in construction dispute issues and expert subject area of significant interest and knowledge and experience to bear on this Adjunct Prof- Construction Asst. District Construction Engineer Mgt.FIU/Broward District Six, Florida DOT auderdale office of Fogel & Associates, Ron Steiner formerly directed the Ft.



construction professionals for use Committee of the State of Florida not intended to substitute for lega within the construction industry. prepared by engineering and The material in the module was Construction Industry Advisory under the auspices of the Building This program has been developed

REGISTRATION FORM

seat(s) at the "CONSTRUCTION CONTRACTS AND RISK" Seminar on Thursday Please reserve Evening, January 30.

Deadline for Registration is Wednesday, January 29.

Company: Address:

Phone:

Our Check for \$_____ is enclosed! Return this form with your check to: Broward Builders Exchange 3550 N.W. 9th Avenue Ft. Lauderdale, FL 33309

For more information call 565-5900

SEE OTHER SIDE



BOOM SEMINAR

THE LIEN LAW, WAIVERS, RELEASES A DISPUTE RESOLUTION Module III of a four-part series focusing on practices and pitfalls in the construction industry that are subject to lawsuits. This seminar addresses the rights and duties you have under the Lien Law, and how you can improve your chances to win.

Thursday Evening April 23rd 6:30 - 9:30 p.m.

at the

Conference Room Broward Bullders Exchange 3550 NW 9th Avenue This program is made possible through the efforts of the BBE Education Committee and BBE Associate members.

The Broward Builders Exchange provides the construction industry with a strong collective voice in all matters effecting the building trade. Vital publications and opportunities to build business contacts are continually provided to firms in the Broward construction Industry.



Tell Us What You Want Discussed

In the space provided below, please identify past or current problems and concerns that you would like covered during this seminar. These certainly can be specific or general. We will pass this information on to our speakers.

SEMINAR SCHEDULE

6:30 PM Introductory Remarks
Prof. Wilson C. Barnes, AIA

6:40 PM Lien Law

8:00 PM Waivers & Releases

9:00 PM Dispute Resolutions

9:30 PM Conclusion

WHO SHOULD ATTEND

The Lien Law, Waivers, Releases and Dispute Resolution. Who among us can claim a perfect understanding of these vital issues. When you are forced into litigation, it is too late to worry about avoidance. Start now and improve your competitive posture. The following professionals should attend:

- Developers
- Business Owners/Principals Commercial/Residential
- Commercial/Residential
- Contractors
- Construction Managers
- Subcontractors
- Material Suppliers
 Service Suppliers
- Consultants

COST

Registrations must be made in advance. The Ree for members of the Broward Builders Exchange is \$10 which includes at hand-out metarisis. For those attending who are not members of the Exchange the fee shall be \$15. Pre-payment is required and the No-Show soley will be uphaid.

SPEAKERS

Professor Wilson C. Barnes, AIA Dept. of Construction Management Florida International University

Larry R. Leiby, Esq.
Leiby, Ferencik, Libanoff & Brandt
Adjunct Professor - Construction Mgt.
Florida International University

Ft. Lauderdale, FL 33309

John M. Dye, C.G.C.
Research Assoc. - Construction Mgt.
Florida International University

Larry Leiby, Author of the "Florida Construction Law Manual" will share this presentation with Jack Dye, a successful General Contractor who has managed to stay out of trouble.



This program has been developed under the auspices of the Building Construction Industry Advisory Committee of the State of Florida. The material in the module was prepared by engineering and construction professionals for use within the construction industry.



Please reserve seat(s) at the "LIEN LAW, WAIVERS, RELEASES & DISPUT Seminar on Thursday Evening, April 23. Deadline for Registration is Wednesday, April 15.	E RESOLUTION'
Company: Phone: City: City:	Zip:
Our Check for \$ is enclosed! Return this form with your check to: Bro	oward Builders Exchange O N.W. 9th Avenue

For more information call 565-5900

REGISTRATION FORM

SEE OTHER SIDE



Florida International University

13 April 1992

Dear Construction Colleague:

The enclosed registration forms are being sent in the interest of encouraging you and/or your associates to attend the announced presentation.

These seminars on practices and pitfalls in the construction industry that lead to law suits are timely, relevant, and full of good advice on how to stay out of trouble in an increasingly litigious environment.

The material has been developed under auspices of the State of Florida Building Construction Industry Advisory Committee. It was gathered and assembled by construction professionals working with attorneys and other specialists in the various subject fields.

A basic study identified the common problems and structured the approach to a presentation format. A second tier study took the four main subject areas and built a seminar curriculum around each one. These are now referred to as the four subject modules.

The modules are:

I - Construction Contracts and Risk

II - Bonds, Insurance, Credit and Finance

III - The Lien Law, Waivers, Releases & Dispute Resolution

IV - Scheduling, Change Orders, Delays and Claims

You will find the cost of attending to be quite modest since these pilot presentations are sponsored by the State as part of the overall program. If you are like most people in the construction industry, you will benefit greatly from participation.

Give your problems a rest and yourself a break. Join us and become more knowledgeable about effective control of your business.

> Wilson C. Barnes, AIA Asst. Professor Dept. of Construction Management

The Broward Programs 3501 S.W. Davie Road, Davie, Florida 33314 (305) 948-6747 • (305) 475-4150 • FAX (305) 472-5174

Equal Opportunity/Equal Access Employer and Institution C-5

ABC SEMINAR CONSTRUCTION CONTRACTS & RISKS



Module 1, of a four-part series focusing on practices and pitfalls in the construction industry that are subect to lawsuits.

This seminar addresses the construction contract and the allocation of risk within the contract.

Thursday, April 30, 1992 6:30 p.m. — 9:30 p.m.

Radisson Hotel
711 NW 72nd Ave.
Miami
(by the intersection of 826/836)

Sche	<u>dule</u>	
6:30	p.m.	Introductory Remarks
6:45	p.m.	Contracts
7:30	p.m.	Risk Shifting
8:00	p.m.	Retainage
8:45	p.m.	Termination
9:00	p.m.	Conslusion

Speakers:

Prof. Wilson C. Barnes, AIA Dept. of Construction Management, FIU

Ronald S. Steiner, PE, CGC Asst. District Construction Engineer, Florida DOT Adjunct Prof-Construction, FIU

This program has been developed under the auspices of the Building
Construction Industry Advisory Committee of the State of Florida.
The material in the module was prepared by engineering and
construction professionals for use within the construction industry.
It is not intended to substitute for legal counsel.

he module discusses the basic concept of a "contract", the nature of risk in a contract, and the identification of risks within specific types of contract clauses.

WHO SHOULD ATTEND? Business Owners/Principals, Commercial Contractors, Construction Managers, Subcontractors, Suppliers...

REGISTRATION FORM

Please reserve seat(s) Seminar on Thursday evening,	at the "Construction Contracts and Risk" April 30. Cost - \$ 15.00 per person.		
COMPANY	PHONE		
ADDRESS	FAX		
Our check for \$. is enc	losed. (Deadline for reservations is 4/28/92.)		
Re	eturn to:		

ABC, 4700 NW 2nd Ave., Boca Raton, 33431



BETTY CASTOR

in. Cecil Golden uty Commissioner Ex-Officio Tallahassee

William Conway Ormond Beach Chair

Mel Bryan Jacksonville AGC

Donald Dolan Miami L Mech Contr Assn

Deane Ellis Delray Beach A C Contr Assn

Joseph Holland Daytona Beach Consultant

Harold Johnson Winter Garden Architect

Thomas Mack Lakeland I Home Bldrs Assn

John Pistorino Hiami Engineer

Bruce Simpson Gainesville ABC

ussell P. Smith Boca Raton Fl Assn PHCC

Ft Lauderdale Foward County Bd Rules & Appeals

Warren Sutton
Hialeah
Construction Industry
Licensing Board

leste K. Valdez Tampa National Assn of Jomen in Construction

STATE OF FLORIDA DEPARTMENT OF EDUCATION

THE BUILDING CONSTRUCTION INDUSTRY ADVISORY COMMITTEE

&

The Department of Construction Management
Florida International University
with
Sponsorship of Associated Builders and Contractors, Inc.

Present a Seminar

BONDS, INSURANCE, CREDIT & FINANCE

Module II of a four-part series focusing on practices and pitfalls in the construction industry that are subject to lawsuits. This seminar addresses the capital establishments and protective measures you need to operate and survive in construction.

Wednesday Evening June 10th 6:30 - 9:30 p.m.

at the

Conference Room Don Shula Hotel Main Street, Miami Lakes

This program has been developed under the auspices of the Building Construction Industry Advisory Committee of the State of Florida. Program research and module material preparation have been done by the Department of Construction Management at Florida International University for use within the construction industry. It is not intended to substitute for legal counsel.

Speakers

Professor Wilson C. Barnes, AIA Dept. of Construction Management Florida International University

Charles H. Nielson Collinsworth, Alter, Nielson, Fowler & Dowling, Inc. Adjunct Prof. - Construction Management Florida International University

W. Meade Collinsworth, CPU, ARM, AAI President Collinsworth, Alter, Nielson, Fowler & Dowling, Inc.

Chuck Nielson & Meade Collinsworth represent many years of experience in dealing with the issues of this seminar. Their knowledge and expertise in helping practitioners to stay out of trouble can be useful to all.

This program has been developed under the auspices of the Building Construction Industry Advisory Committee of the State of Florida. The material in the module was prepared by engineering and construction professionals for use within the construction industry.



BETTY CASTOR

Mm. Cecil Golden Deputy Commissioner Ex-Officio Tallahassee

> William Conway Ormond Beach Chair

Mel Bryan Jacksonville AGC

Donald Dolan Miami S Fi Mech Contr Assn

Deane Ellis Delray Beach Fl A C Contr Assn

Joseph Holland Daytona Beach Consultant

Harold Johnson Winter Garden Architect

Thomas Mack Lakeland Fl Home Bldrs Assn

> John Pistorino Miami Engineer

Bruce Simpson Gainesville ABC

Russell P. Smith Boca Raton Fl Assn PHCC

Clifford 1. Storm Ft Lauderdale Broward County Bd Rules & Appeals

Warren Sutton Hialeah Construction Industry Licensing Board

Celeste K. Valdez Tampa National Assn of Women in Construction

STATE OF FLORIDA DEPARTMENT OF EDUCATION

THE BUILDING CONSTRUCTION INDUSTRY ADVISORY COMMITTEE

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The Department of Construction Management
Florida International University
with
Sponsorship of Associated Builders and Contractors, Inc.

Present a Seminar

SCHEDULING DELAYS, CLAIMS & CHANGE ORDERS

Module IV of a four-part series focusing on practices and pitfalls in the construction industry that are subject to lawsuits. This seminar addresses the construction project schedule and how to make it work to your advantage.

Thursday Evening July 9th 6:30 - 9:30 p.m.

at the

Conference Room
Don Shula Hotel
Main Street, Miami Lakes

This program has been developed under the auspices of the Building Construction Industry Advisory Committee of the State of Florida. Program research and module material preparation have been done by the Department of Construction Management at Florida International University for use within the construction industry. It is not intended to substitute for legal counsel.

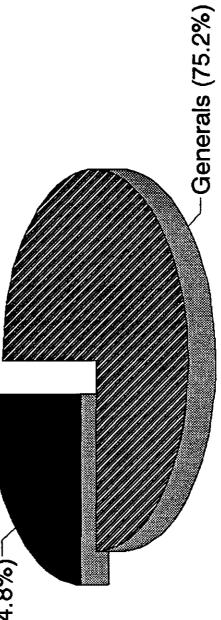
Speakers

Professor Wilson C. Barnes, AIA Dept. of Construction Management Broward Programs Florida International University

Ronald S. Steiner, PE, CGC Assistant District Construction Engineer District Six, Florida DOT Adjunct Professor - Construction Mgt. Florida International University

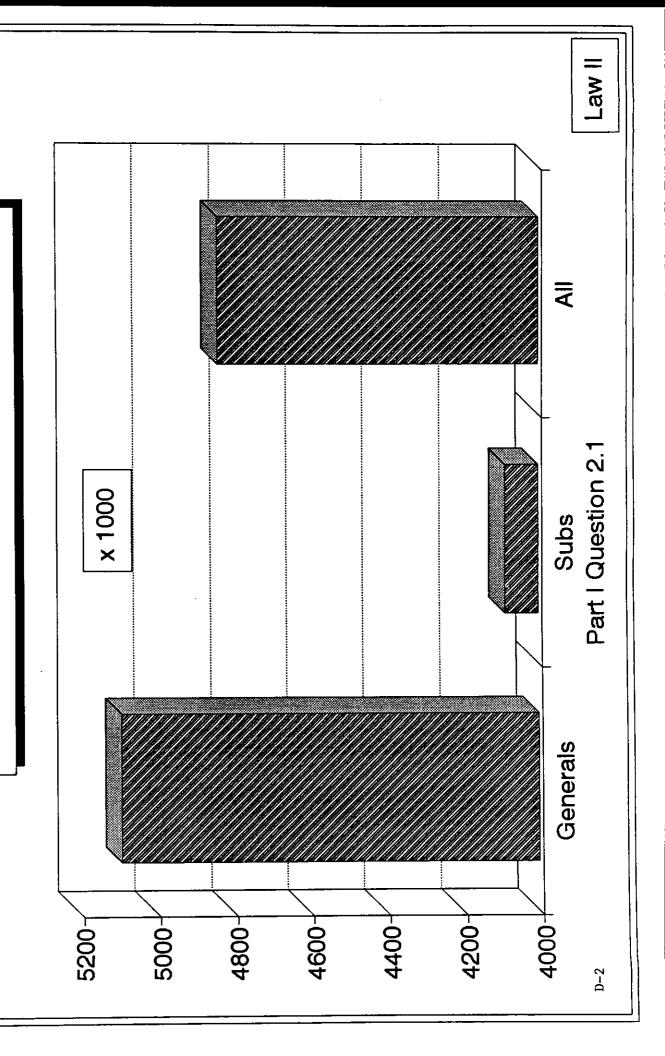
(Ron Steiner formerly directed the Ft. Lauderdale office of Fogel & Associates, a consulting engineer firm specializing in construction dispute issues and expert witness testimony. He brings extensive knowledge and experience to bear on this subject area of significant interest and importance.)

This program has been developed under the auspices of the Building Construction Industry Advisory Committee of the State of Florida. The material in the module was prepared by engineering and construction professionals for use within the construction industry.

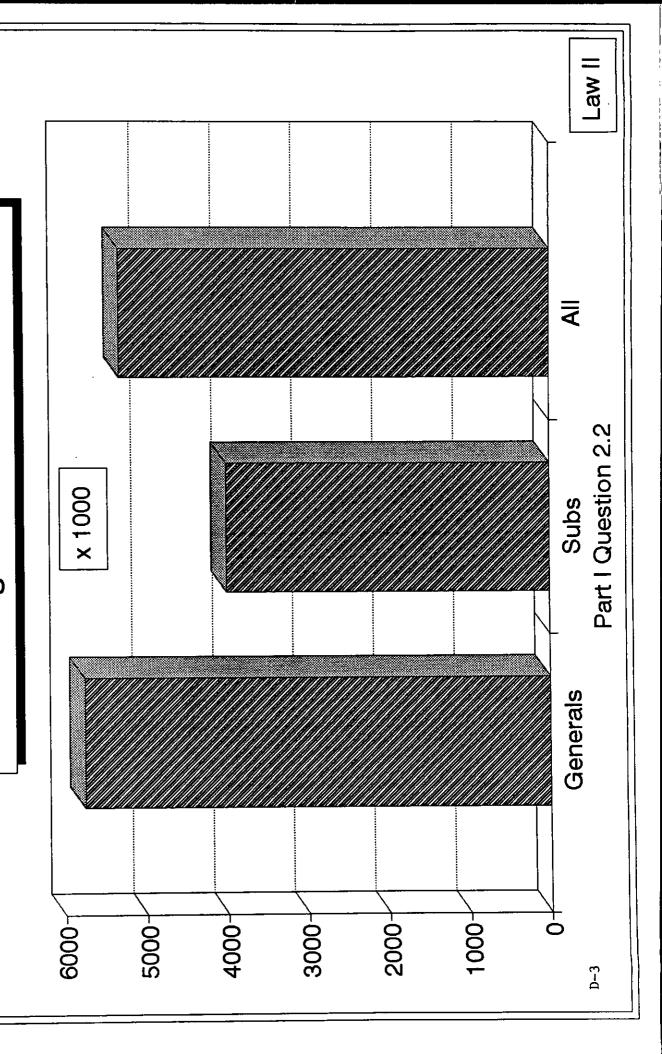


Part I Question 1.1

Business Dollar Volume Last Year



Business Dollar Volume Average Last Three Years

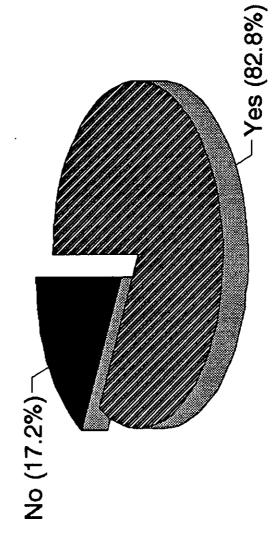


Do You Have A Regular Attorney?

No (16.9%)

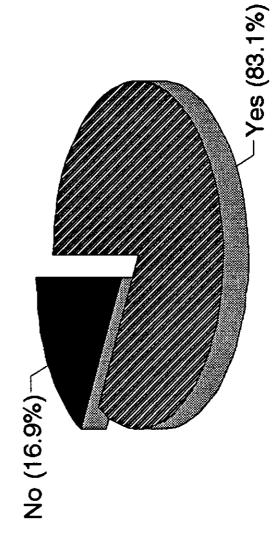
Part 1 Question 3.1.2

Do You Have A Regular Attorney?



Part I Question 3.2.2

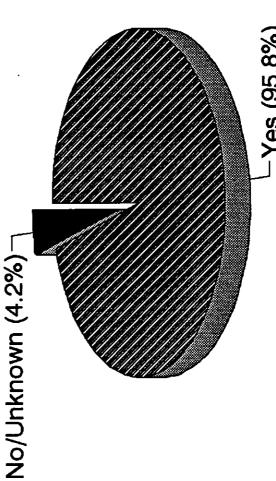
Do You Have A Regular Attorney?



Part I Question 3.3.2

Attorney Knows Construction Business?

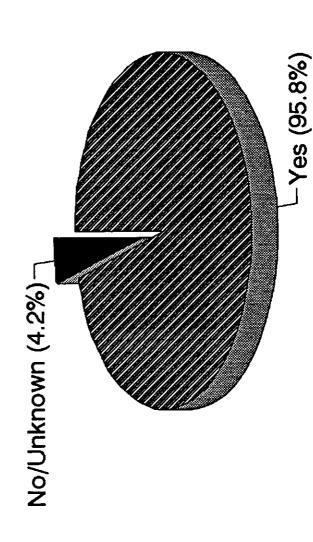
Generals



-Yes (95.8%)

Part 1 Question 4.1.1.P

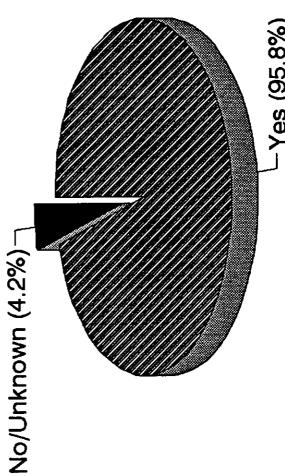
Attorney Knows Construction Business? Subs



Part 1 Question 4.1.2.P

Attorney Knows Construction Business?

₹



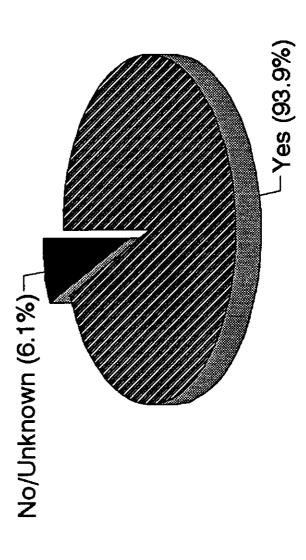
-Yes (95.8%)

Part 1 Question 4.1.3.P

Law ∥

Attorney Knows Construction Litigation?

Generals



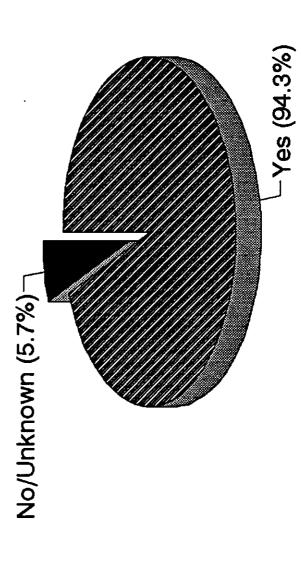
Part 1 Question 4.2.1.P

Attorney Knows Construction Litigation? Subs

Part 1 Question 4.2.2.P

Attorney Knows Construction Litigation?

\begin{align*}

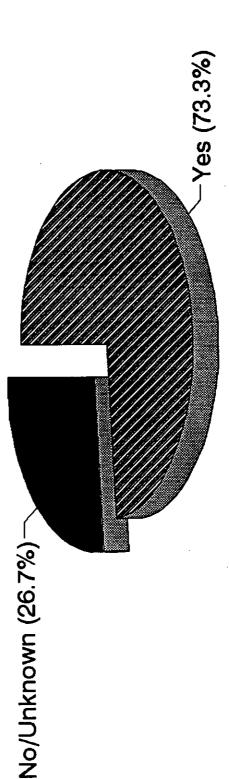


Part 1 Question 4.2.3.P

7.

Consult Those Who Know Construction?

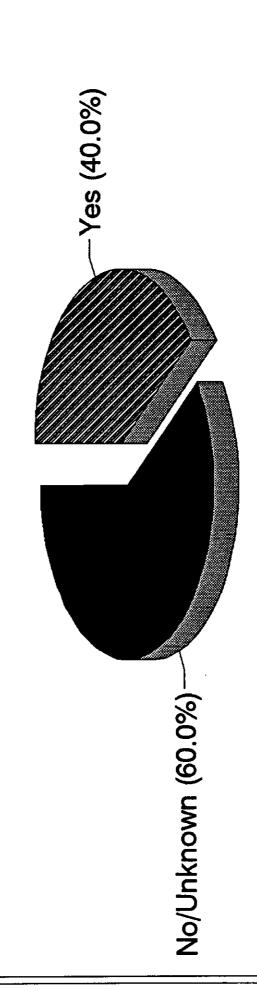
Generals



Part 1 Question 5.1.1.P

Law ∥

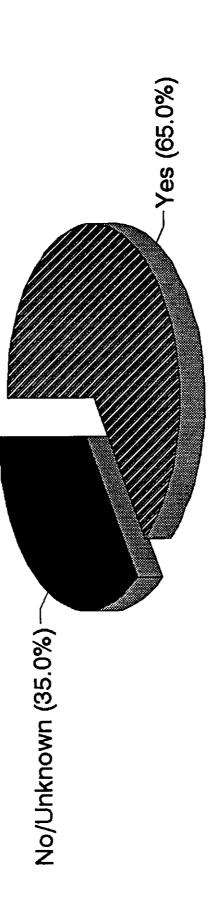
Consult Those Who Know Construction? Subs



Part 1 Question 5.1.2.P

Consult Those Who Know Construction?

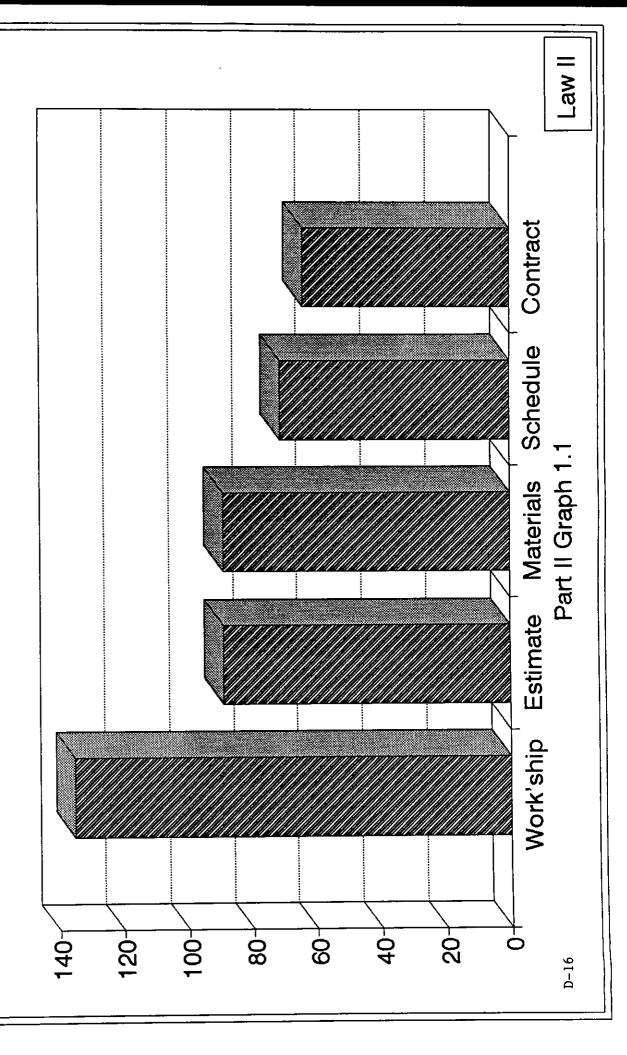
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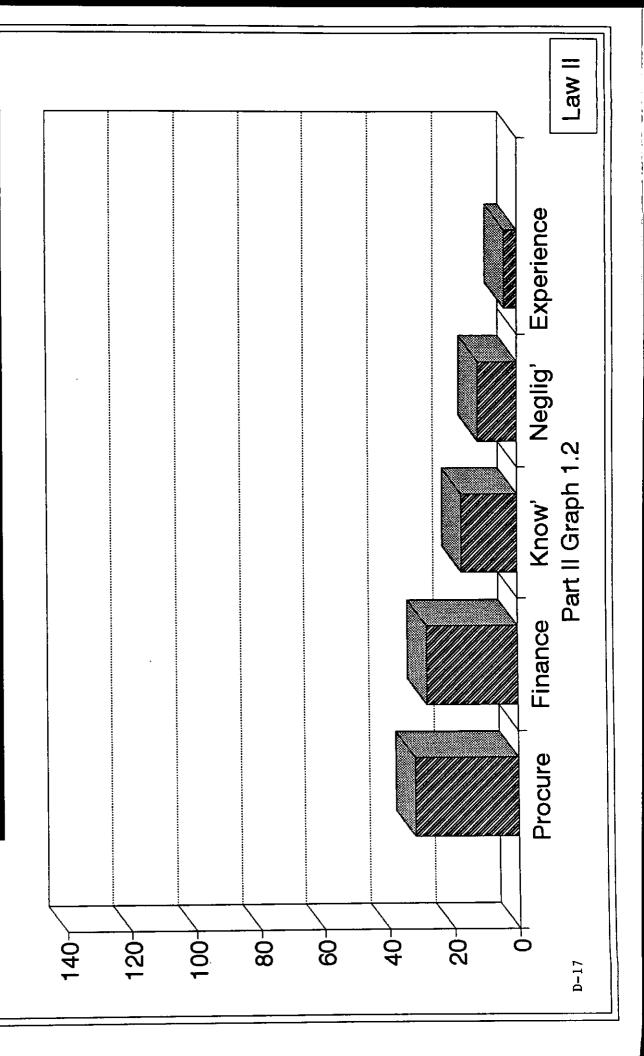
Part 1 Question 5.1.3.P

Law

Factors Which Cause Litigation Top 5

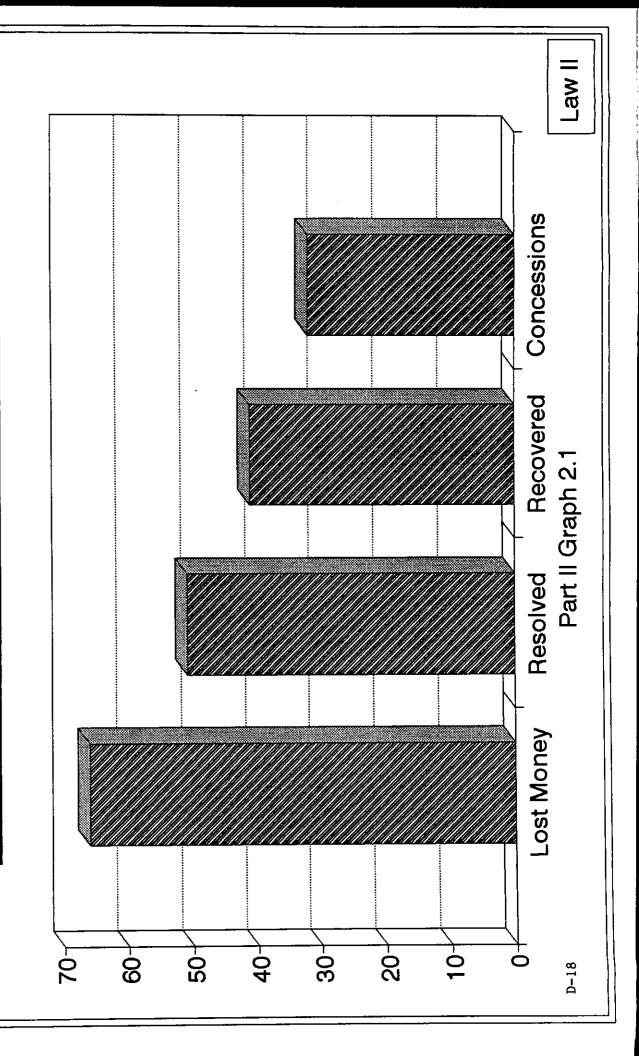


Factors Which Cause Litigation

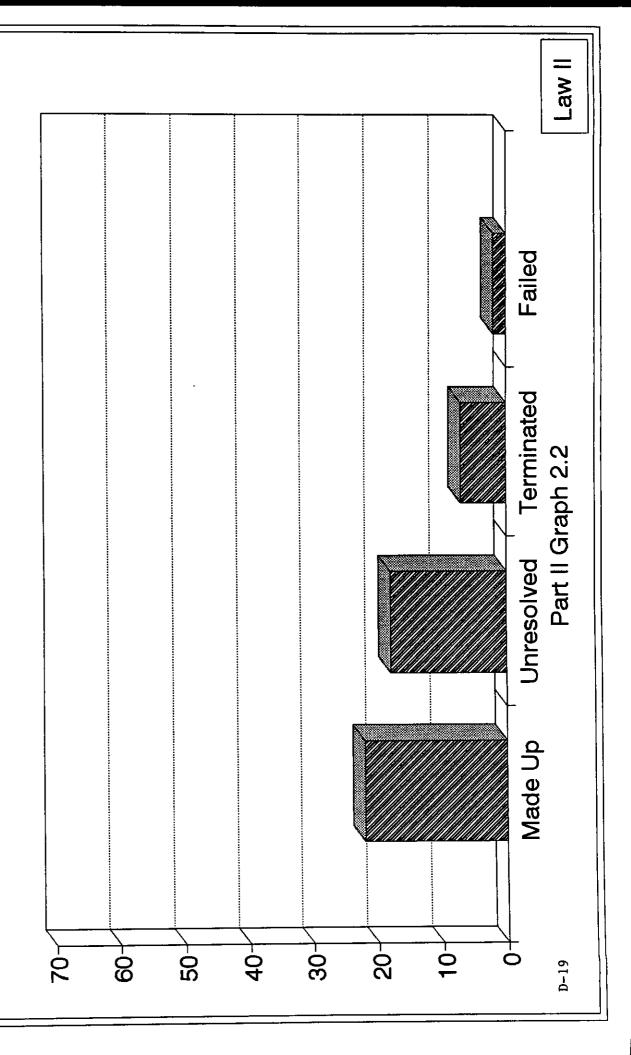


Results of Construction Problems

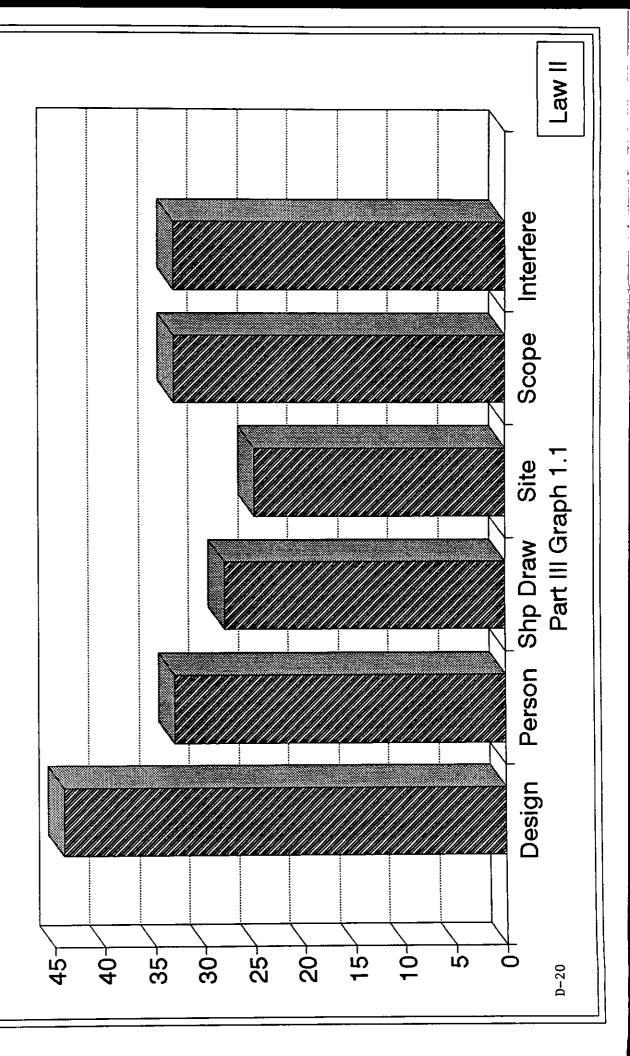
Top 4



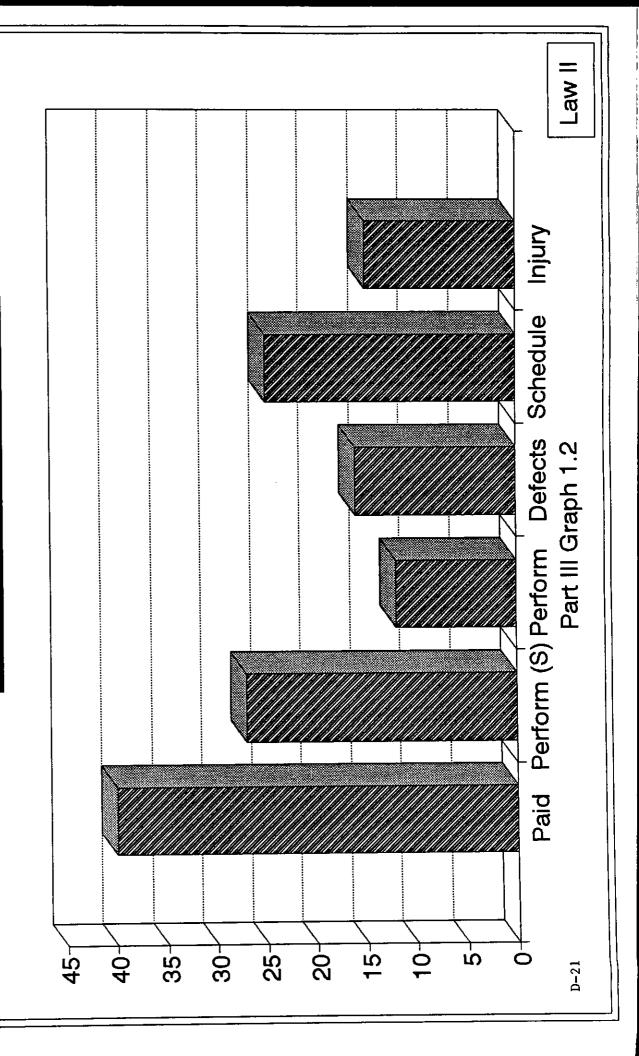
Results of Construction Problems **Bottom 4**



Claims/Disputes Reasons



Claims/Disputes Reasons



Breakdown of Problem Resolutions

