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**NORWAY/UNITED STATES DESIGN PROTECTIVE
AIRCRAFT SHELTER (PAS) QUANTITY-DISTANCE
PROGRAM 1/3-SCALE TEST SERIES**

**Volume V of V
Appendix D: PAS-4**

**Edward H. Bultmann, Jr.
Bruce A. Schneider**

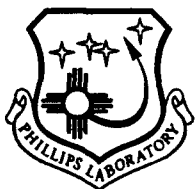
**New Mexico Engineering Research Institute
The University of New Mexico
Albuquerque, NM 87131-1376**

August 1993

OCT 07 1993

Final Report

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**PHILLIPS LABORATORY
Advanced Weapons and Survivability Directorate
AIR FORCE MATERIEL COMMAND
KIRTLAND AIR FORCE BASE, NM 87117-5776**

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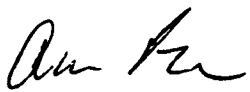
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FOR THE COMMANDER


AARON PEREA
Project Officer


BRENDAN B. GODFREY, ST
Director, Advanced Weapons
and Survivability Directorate

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13. ABSTRACT (Maximum 200 words) The objective of the Combined Norwegian/U.S. Aircraft Shelter Quantity-Distance Program was to establish an experimental database that could be used to develop explosives safety criteria for a Norwegian-designed aircraft shelter. These shelters have been constructed at various bases in Europe and are used by U.S. and Norwegian air forces. The current criteria for explosives storage in aircraft shelters are based largely on U.S. aircraft shelter designs, which differ significantly in structural details from the Norwegian version. The program included four tests of 1/3-scale models of the Norwegian shelter. Charges varying from 3.7 to 100 kg of C-4 explosive were detonated inside the model shelters. Airblast pressures were measured in the interior and exterior areas surrounding the models. High-speed photography and accelerometers were used to determine structural debris trajectories and velocities. The final distribution of structural debris in the areas surrounding the models was also recorded. Volume I of this report presents a detailed discussion of the results of each test with selected experimental data. Volumes II through V provide a complete set of the experimental data gathered in each of the test events. These data will be provided to those U.S., Norwegian, and NATO agencies responsible for establishing explosives storage safety criteria for the Norwegian aircraft shelter.				
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PREFACE

This report was prepared by the New Mexico Engineering Research Institute (NMERI), The University of New Mexico, under Subtask 2.33 of Contract F29601-87-C-0001, with the Phillips Laboratory, Kirtland Air Force Base, New Mexico. The Norwegian/US Aircraft Shelter Quantity-Distance Program under which this test program was conducted was cosponsored by the United States and the Kingdom of Norway. The 1/3-scale aircraft shelter models were designed, constructed, instrumented, and tested by NMERI.

The Phillips Laboratory Program Manager and Subtask Officer for this subtask was Capt Mike Ulshafer of PL/WSB. The Phillips Laboratory Technical Coordinator was Aaron Perea. Arfin Jenssen was the Norwegian Technical Advisor/Coordinator. Dr. Edward H. Bultmann, Jr., of NMERI was the Principal Investigator for the subtask. Bruce Schneider of NMERI was the Alternate Principal Investigator for this subtask. Jon A. Kirst was the Instrumentation Engineer, Curtis Burnett was the Lead Construction (Field) Technician for this subtask. Jesse Martinez was the Lead Instrumentation Technician.

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1.0 PAS-4 PHOTOGRAPHS OF LARGE ARCH SECTIONS

This section presents the photographs of the individual large arch sections. Figure D-1 is a plan view of the arch showing the origination of the large sections. Figure D-2 shows the final location of the large arch sections. The number appearing at the lower left corner of the photographs is the identification number of the large arch section as shown in Figures D-1 and D-2.

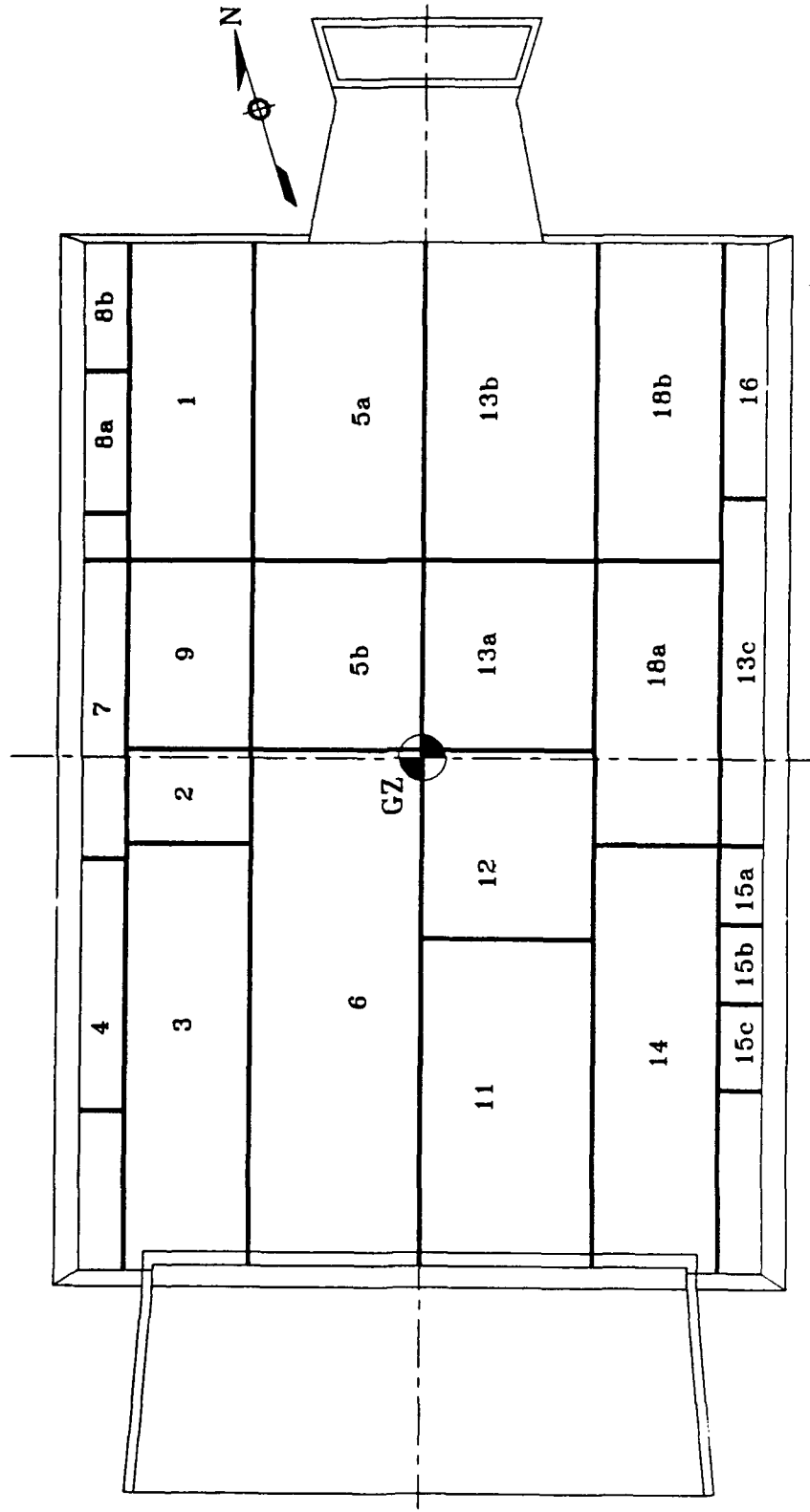


Figure D-1. Break-up pattern of arch, PAS-4.

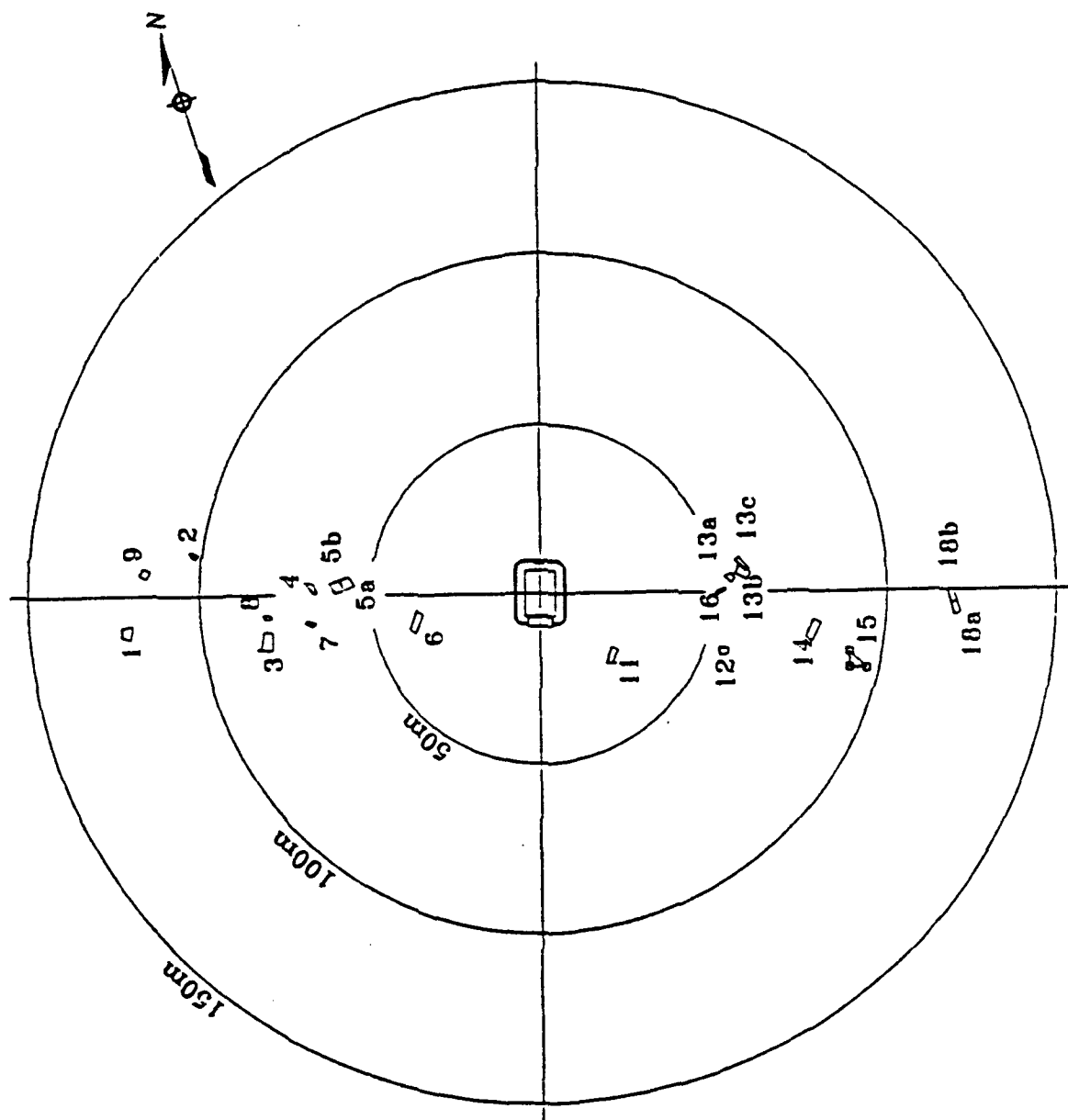
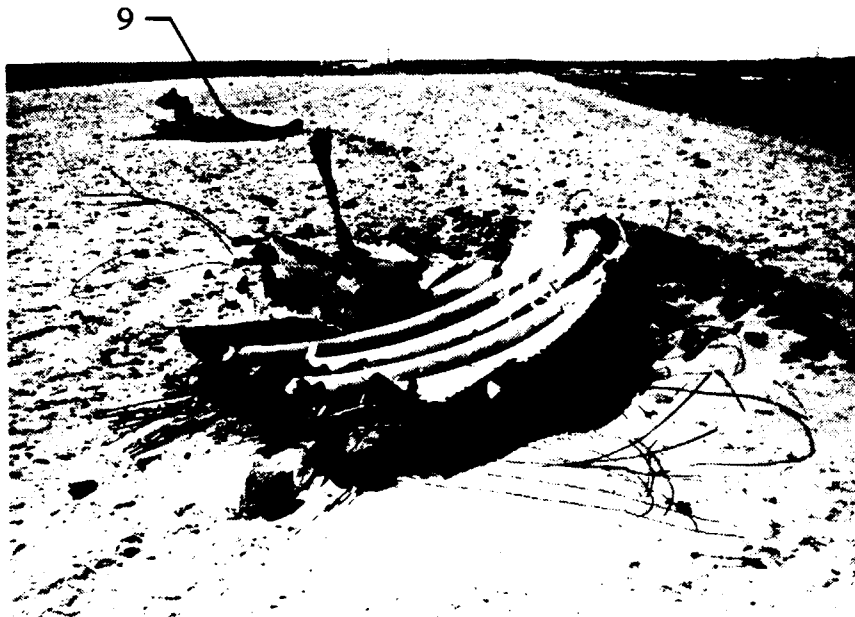


Figure D-2. Posttest locations of large arch sections, PAS-4.

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Debris 7



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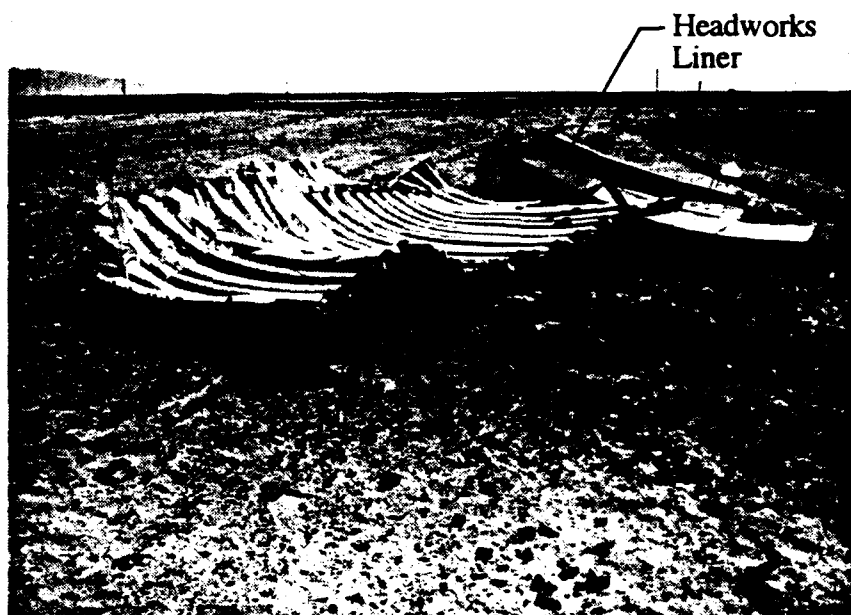


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NOTE: The number appearing below the lower left corner of the photograph is the identification number of the large arch section shown. The reader is also referred to Figures D-1 and D-2.



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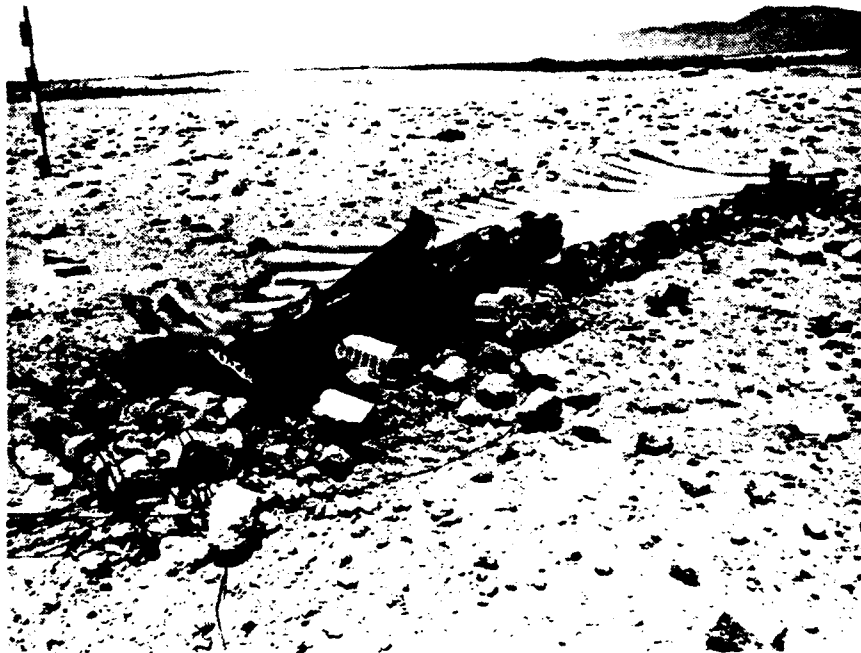
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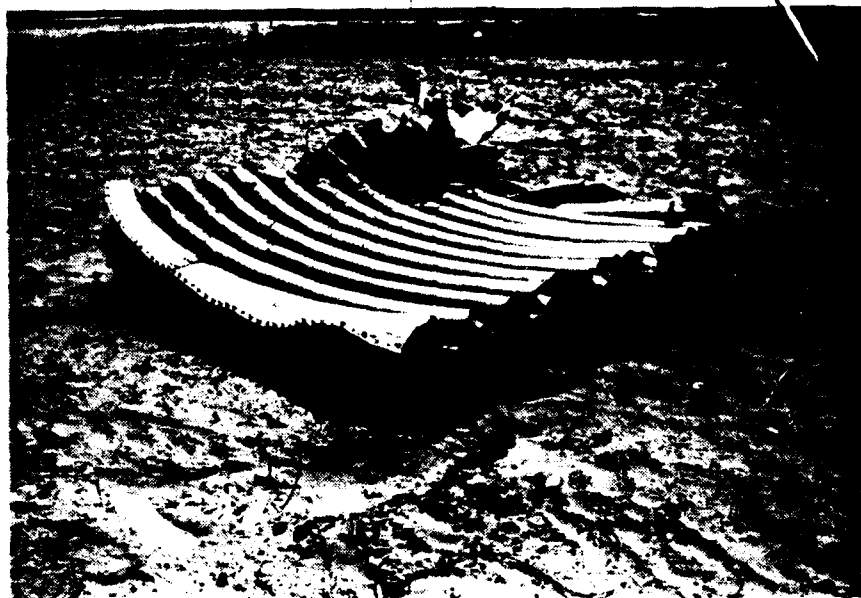
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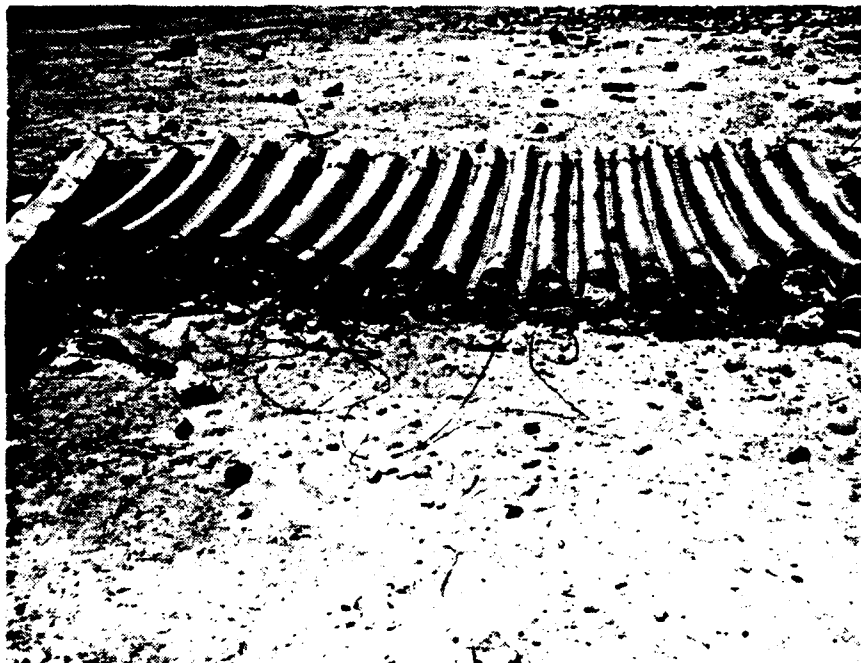
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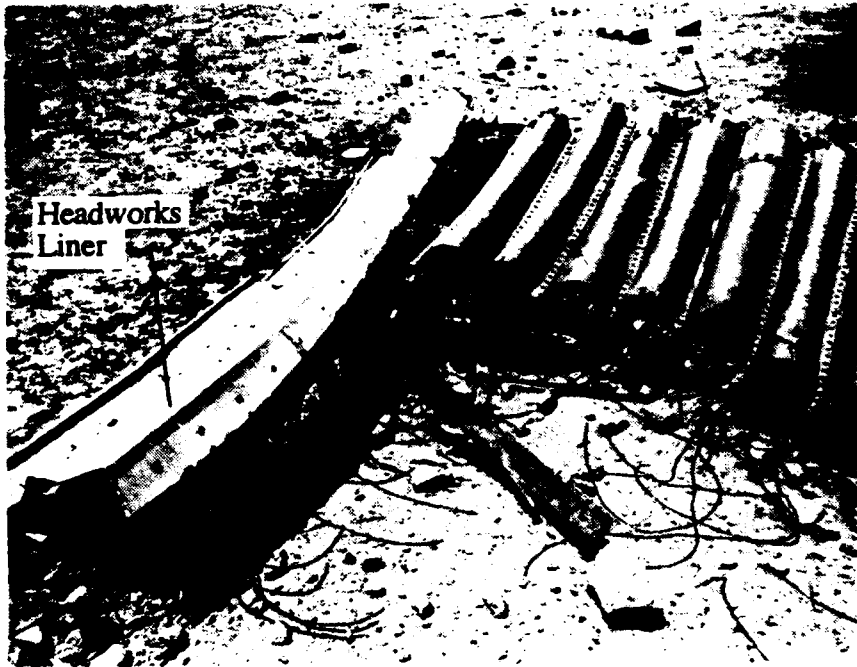
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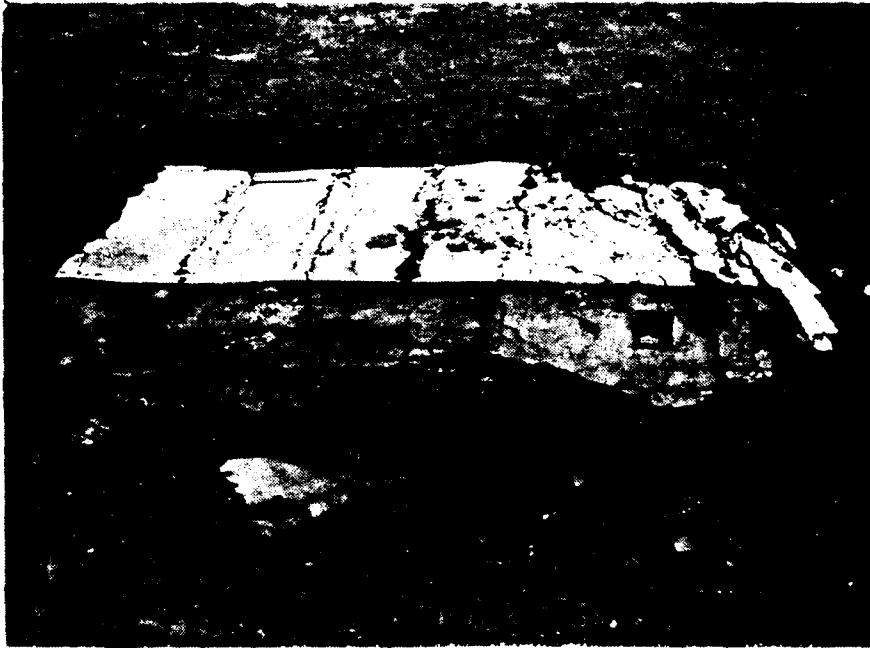
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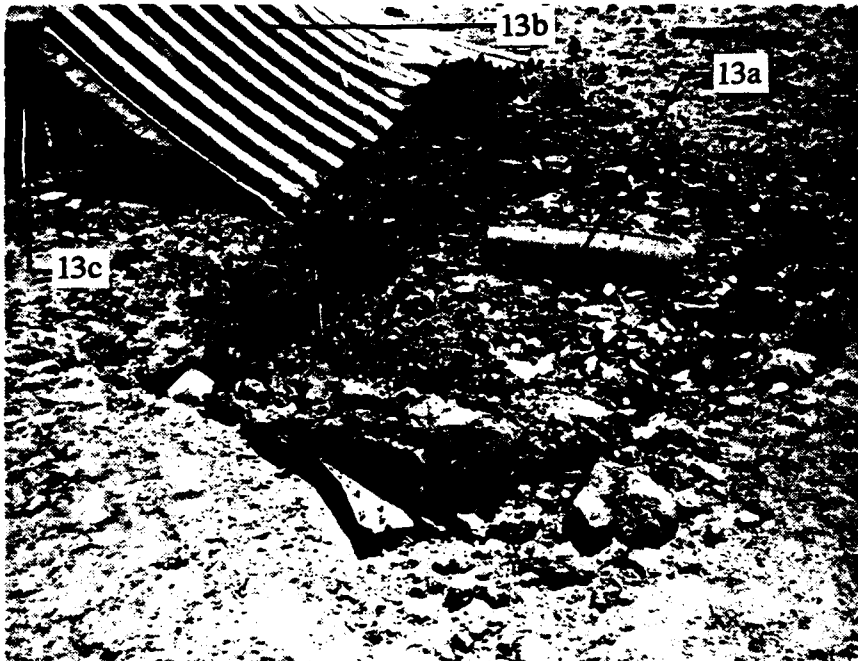


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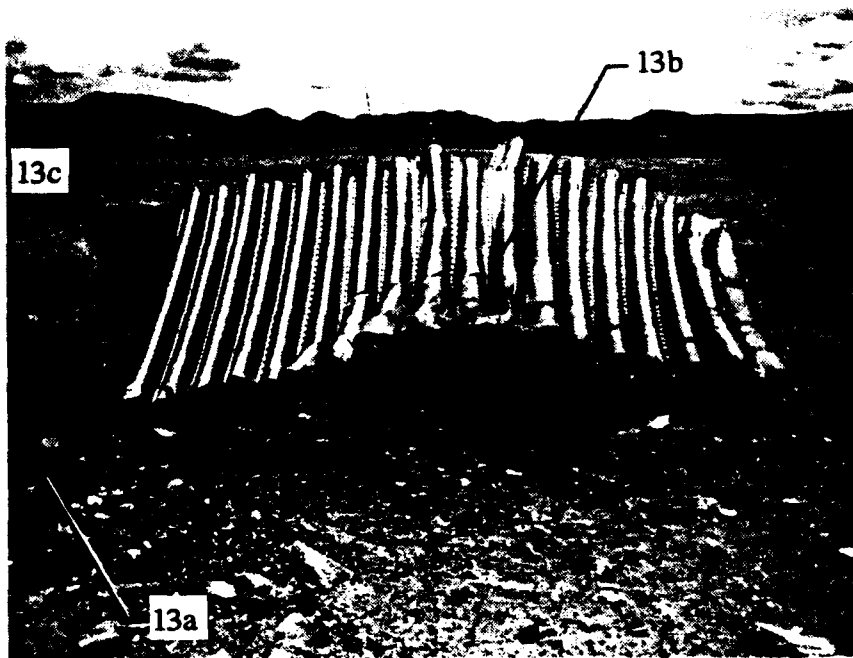


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Transverse



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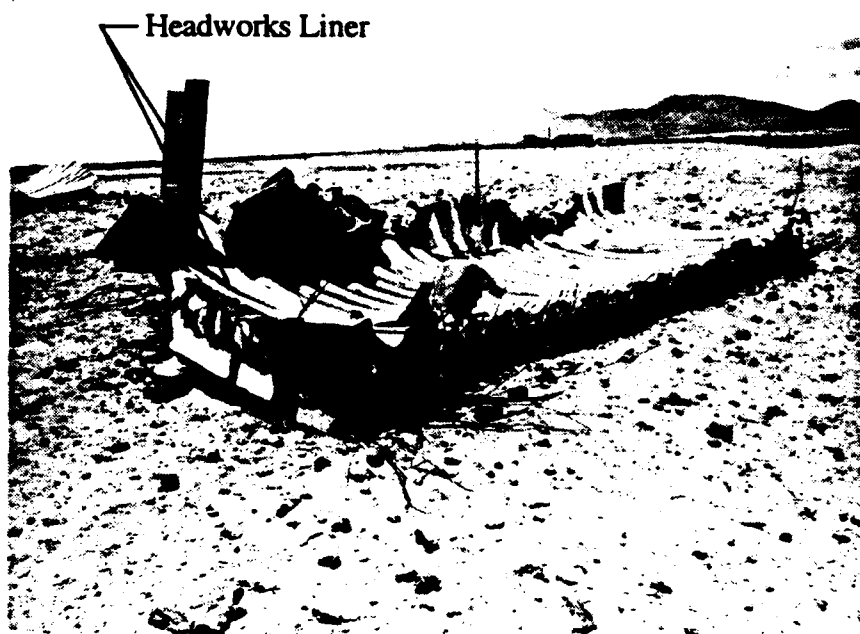
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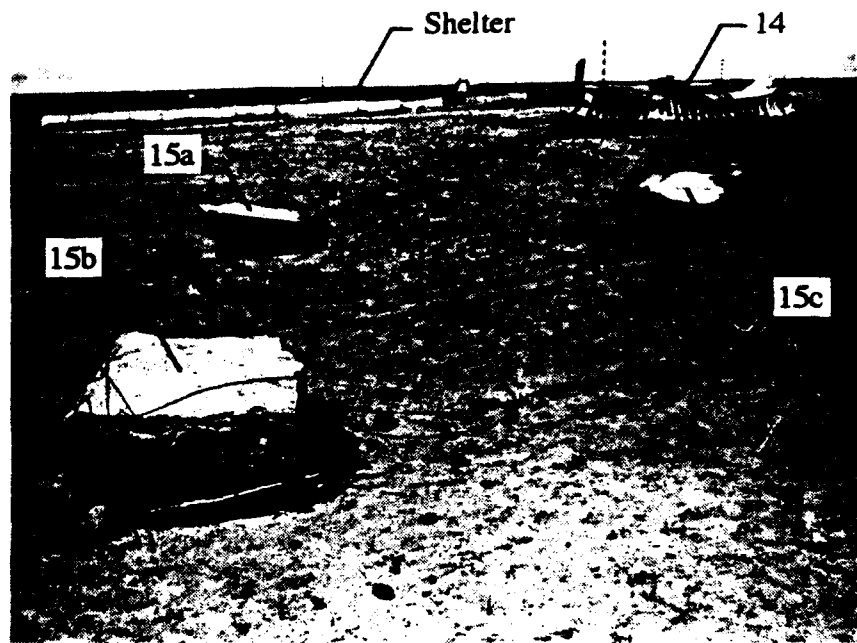
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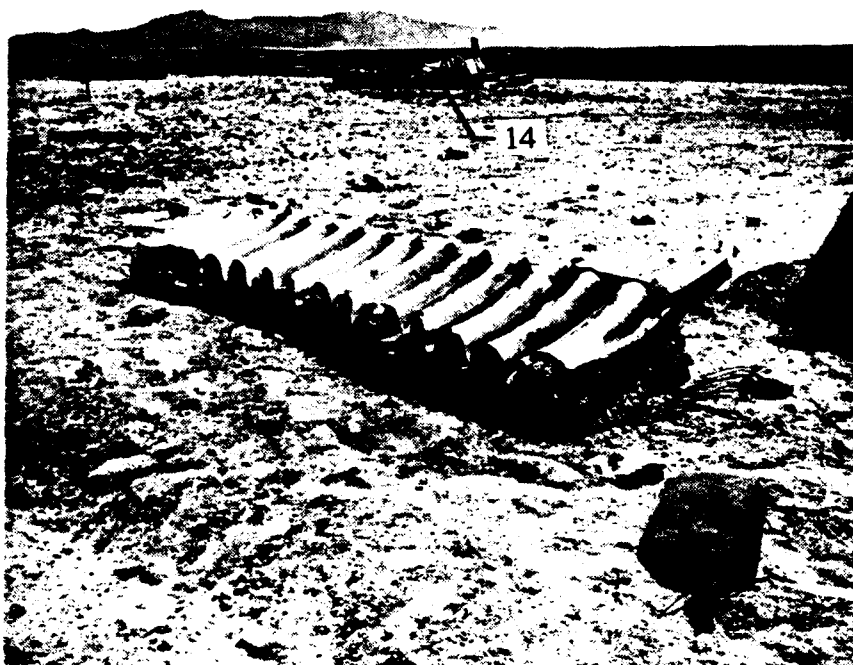
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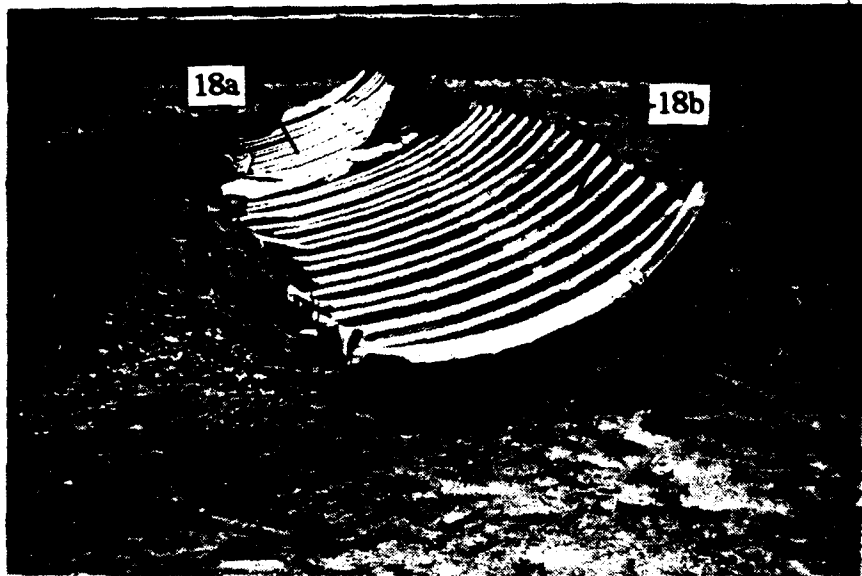
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2.0 PAS-4 ELECTRONIC INSTRUMENTATION, DATA PLOTS

The PAS-4 measurements are listed in Table D-1. The locations of the various on-structure measurements are shown in Figures D-3 through D-8. The PAS-4 data plots are presented in sequential order by measurement number. The measurement number is centered below the plot; that is, PAS-4 *** 0101 *** refers to measurement number (MN) 0101. A measurement may have several plots of different vertical scales or time domains; for example, MN 0101 has both 20 and 90 ms plots. Measurement numbers with the Prefix 9 are redundant recordings of gages. For example, MN 9604 is redundant recording of MN 0604.

Table D-1. List of measurements, PAS-4.

MEASUREMENT LIST														DATE	7 JUL 92	PAGE 1 OF 4 PAGES	
TEST EVENT				PAS-4				KIRST				IE		TRANSDUCER		CHANGES	
MEAS NO.	LOCATION			SENS AXIS	PRED MAX	CONF LEVEL	TRANSDUCER		TRANSDUCER TYPE	TRANSDUCER SERIAL NUMBER	TRANSDUCER		TRANSDUCER				
	GEN	X#	Y#				MODEL	RANGE			ITEM	AUTH	DATE				
0101-4	SF	12807	0	367	Z	5.171 MPa	70	KULITE	13.79 MPa	(Filter) PRESSURE	102-7-13						
0102-4	SF	12807	3700	367	Z	13.790 MPa	70	KULITE	34.47 MPa	(Filter) PRESSURE	3668-1-4						
0202-4	BW	13010	1700	1475	X	6.895 MPa	70	KULITE	13.79 MPa	(Filter) PRESSURE	102-9-1						
0301-4	SF	3976	0	367	Z	4.826 MPa	70	KULITE	13.79 MPa	(Filter) PRESSURE	102-9-10						
0302-4	SF	3976	1850	367	Z	4.826 MPa	70	KULITE	6.89 MPa	(Filter) PRESSURE	455-2-4						
0303-4	SF	3976	3700	367	Z	11.032 MPa	70	KULITE	34.47 MPa	(Filter) PRESSURE	5242-1-6	GAGE	J.K.	7/1			
0402-4	FD	498	100	1475	X	5.654 MPa	70	KULITE	13.79 MPa	(Nylon Mount) PRESSURE	102-9-2						
0501-4	SF	645	3700	367	Z	13.790 MPa	70	KULITE	34.47 MPa	(Filter) PRESSURE	5246-4-24						
0601-4	SF	6818	1850	367	Z	8.274 MPa	70	KULITE	13.79 MPa	(Filter) PRESSURE	103-3-1						
0602-4	SF	6818	3700	367	Z	13.790 MPa	70	KULITE	34.47 MPa	(Filter) PRESSURE	5047-1-4						
0603-4	SF	6818	3700	367	Z	13.790 MPa	70	KULITE	34.47 MPa	(Filter) PRESSURE	5241-3-4						
0604-4	SC	6818	0	2717	Z	13.790 MPa	100	KULITE	137.9 MPa	(Filter) PRESSURE	4319-1-19						

NOTES:

= Distance in millimeters

SF = Shelter floor

BK = Backwall

FD = Front Door

SC = Shelter Ceiling

f0 = Front Door

SC = Shelter Ceiling

X = Distance in millimeters

SF = Shelter floor

BL = Backwall

Table D-1. Continued.

MEASUREMENT LIST																	DATE 8 JUL 92		PAGE 2 OF 4 PAGES	
TEST EVENT		PAS-4				IE		KIRST		TRANSDUCER		TRANSDUCER		TRANSDUCER		CHANGES				
MEAS NO.	RDT	LOCATION			SENS AXIS	PRED MAX	CONF LEVEL	TRANSDUCER		RANGE	TYPE	SERIAL NUMBER	ITEM	AUTH	DATE					
		GEN	X#	Y#				Z#	MODEL											
0604-4	SC	12807	0	2717	Z	55.16 MPa	57.2 %	KULITE	HKS-11-375	137.9 MPa	(Filter)	4319-1-19								
0701-4	FF	-9000	0	350	Z	106.87 kPa	100 %	KULITE	XT-190	172.4 kPa	PRESSURE	(3549-1-175) O15-43								
0702-4	FF	-24000	0	350	Z	34.474 kPa	100 %	KULITE	XT-190	68.9 kPa	PRESSURE	(2650-2-112) X8-19								
0703-4	FF	-44000	0	350	Z	13.790 kPa	100 %	KULITE	XT-190	34.5 kPa	PRESSURE	(4363-5-137) X18-21								
0704-4	FF	-74000	0	350	Z	6.895 kPa	100 %	ENDEVCO	8510B	13.8 kPa	PRESSURE	D44T								
0705-4	FF	-84000	0	350	Z	5.861 kPa	100 %	ENDEVCO	8510B	13.8 kPa	PRESSURE	C93M		J.K.	6/73					
0706-4	FF	-6233	10800	350	Z	96.527 kPa	50 %	KULITE	XT-190	172.4 kPa	PRESSURE	(3549-1-174) O15-42								
0707-4	FF	-16433	21000	350	Z	20.684 kPa	50 %	KULITE	XT-190	34.5 kPa	PRESSURE	(4263-5-135) Y18-25								
0708-4	FF	-30433	35000	350	Z	6.895 kPa	50 %	ENDEVCO	8510B	13.8 kPa	PRESSURE	RF77								
0709-4	FF	-37433	42000	350	Z	4.826 kPa	50 %	ENDEVCO	8510B	6.9 kPa	PRESSURE	L11K								
0710-4	FF	6818	12000	350	Z	34.474 kPa	50 %	KULITE	XT-190	68.9 kPa	PRESSURE	(2907-3-91) N9-69								
0711-4	FF	6818	40000	350	Z	6.895 kPa	50 %	ENDEVCO	8510B	13.8 kPa	PRESSURE	RF93								

NOTES:

= Distance in millimeters

SC = Structure Ceiling

FF = Free Field

ROT = Redundant

NOTES: # = Distance in millimeters RDT = Redundant
 SC = Structure Ceiling
 FF = Free Field

Table D-1. Continued.

MEASUREMENT LIST														DATE		8 JUL 92		PAGE 3 OF 4 PAGES	
TEST EVENT				PAS-4				KIRST				IE							
MEAS NO.	LOCATION			SENS AXIS	PREC MAX	CONF LEVEL	TRANSDUCER		TRANSDUCER TYPE	TRANSDUCER SERIAL NUMBER	CHANGES								
	GEN	X#	Y#				Z#	MODEL			RANGE	ITEM	DATE						
0712-4	FF	6818	50000	350	Z	4.137 kPa	50	ENDEVCO 8510B	PRESSURE	6.9 kPa	L53F								
0713-4	FF	19841	10800	350	Z	55.158 kPa	50	KULITE XT-190	PRESSURE	172.4 kPa	(2710-1-15) A9-57								
0714-4	FF	30041	21000	350	Z	11.721 kPa	50	KULITE XT-190	PRESSURE	34.5 kPa	(4263-5-140) Y18-26	J.K.	7/1						
0715-4	FF	44041	35000	350	Z	3.447 kPa	50	ENDEVCO 8510B	PRESSURE	6.9 kPa	L23K								
0716-4	FF	23000	0	350	Z	103.422 kPa	100	KULITE XT-190	PRESSURE	172.4 kPa	(2710-1-10) A9-60								
0717-4	FF	37000	0	350	Z	34.474 kPa	100	KULITE XT-190	PRESSURE	68.9 kPa	(3827-4-19) L18-92								
0718-4	FF	57000	0	350	Z	13.790 kPa	100	KULITE XT-190	PRESSURE	34.5 kPa	(4363-5-139) X18-22								
0719-4	FF	77000	0	350	Z	5.516 kPa	100	ENDEVCO 8510B	PRESSURE	6.9 kPa	L08K								
0720-4	FF	6818	-10000	350	Z	34.474 kPa	50	KULITE XT-190	PRESSURE	68.9 kPa	(2650-2-49) W8-91								
0721-4	FF	6818	-40000	350	Z	6.895 kPa	50	ENDEVCO 8510B	PRESSURE	13.8 kPa	C61M								
0722-4	FF	6818	-50000	350	Z	4.137 kPa	50	ENDEVCO 8510B	PRESSURE	6.9 kPa	L01K								
1601-4	SR	6818	0	2987	Z	20000 g	50	ENDEVCO 2264A	ACCELEROMETER	50000 g	CH03E								

NOTES:

= Distance in millimeters

FF = Free Field

SR = Structure Roof

NOTES: # = Distance in millimeters

FF = Free Field

SR = Structure Roof

Table D-1. Concluded.

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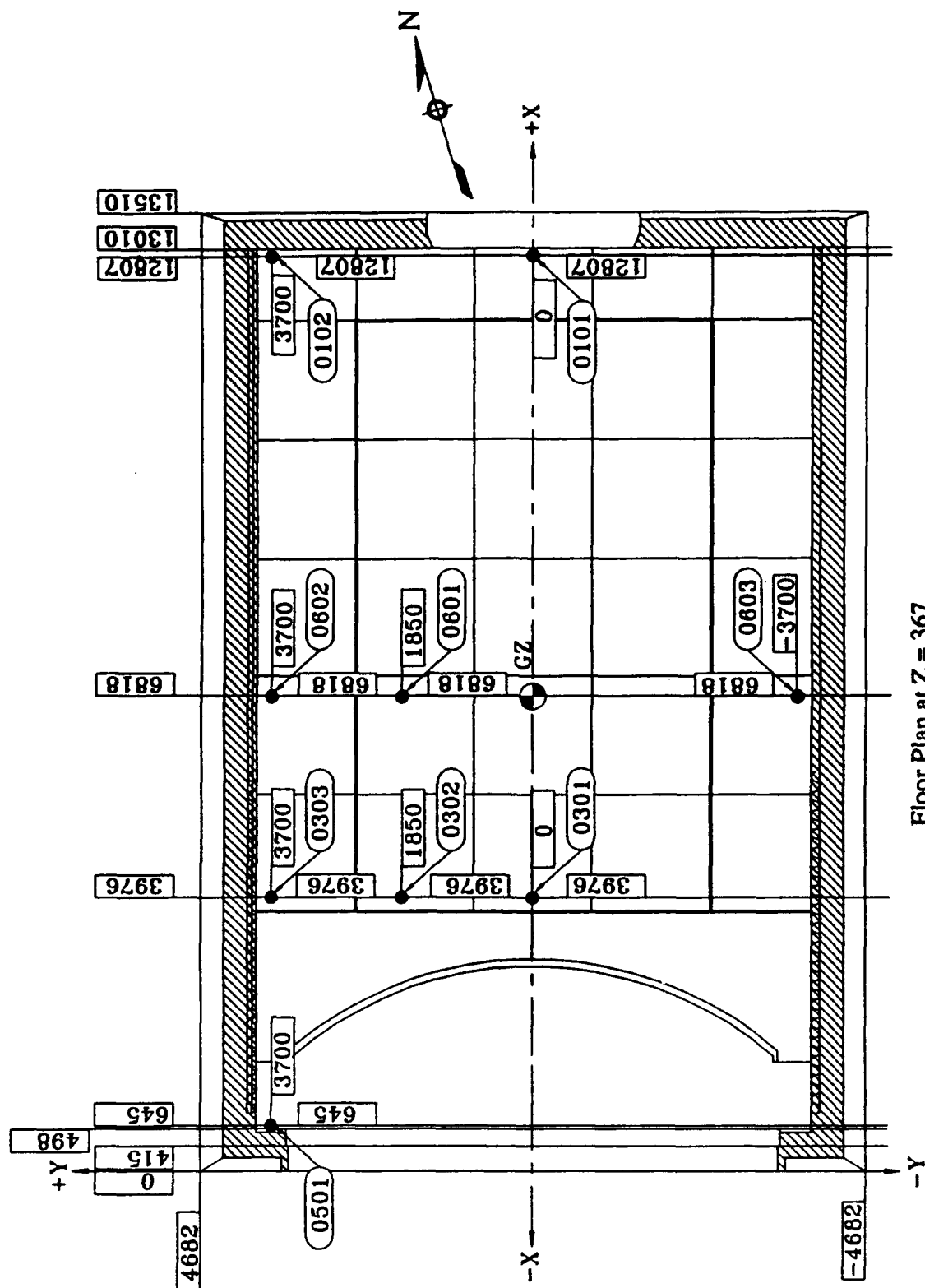


Figure D-3. Instrumentation in floor of structure, PAS-4.

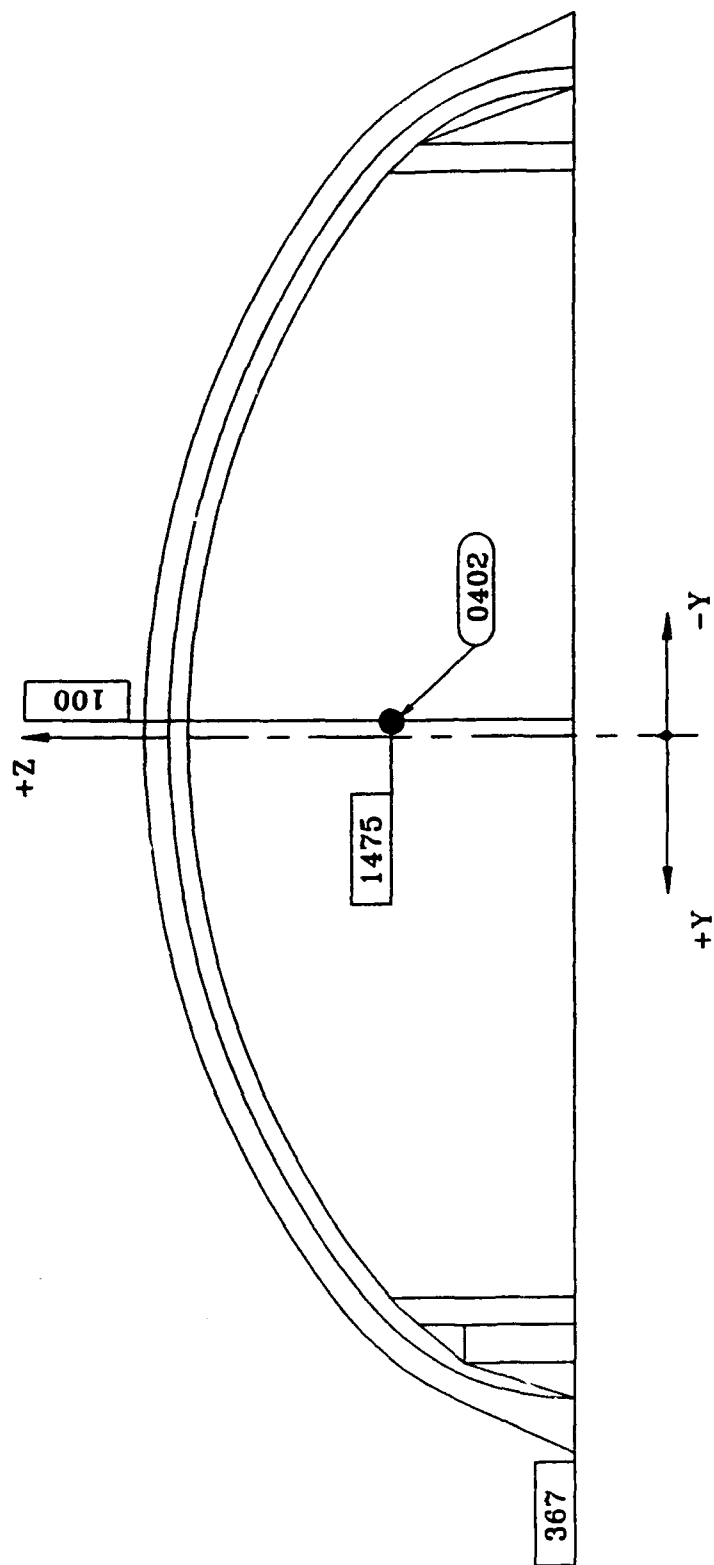


Figure D-4. Instrumentation on inside surface of front door at X = 498, PAS-4.

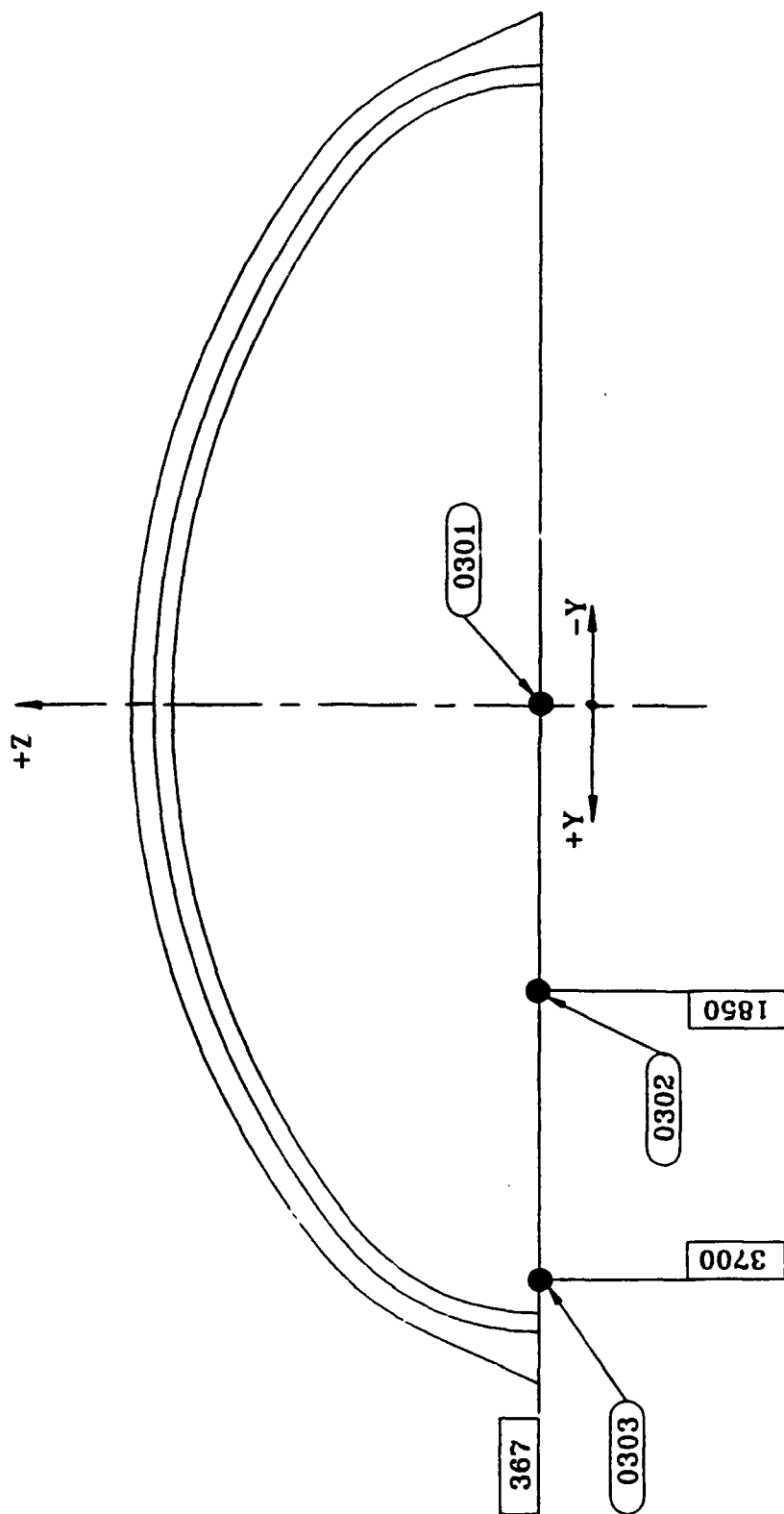


Figure D-5. Instrumentation on arch at $X = 3976$, PAS-4.

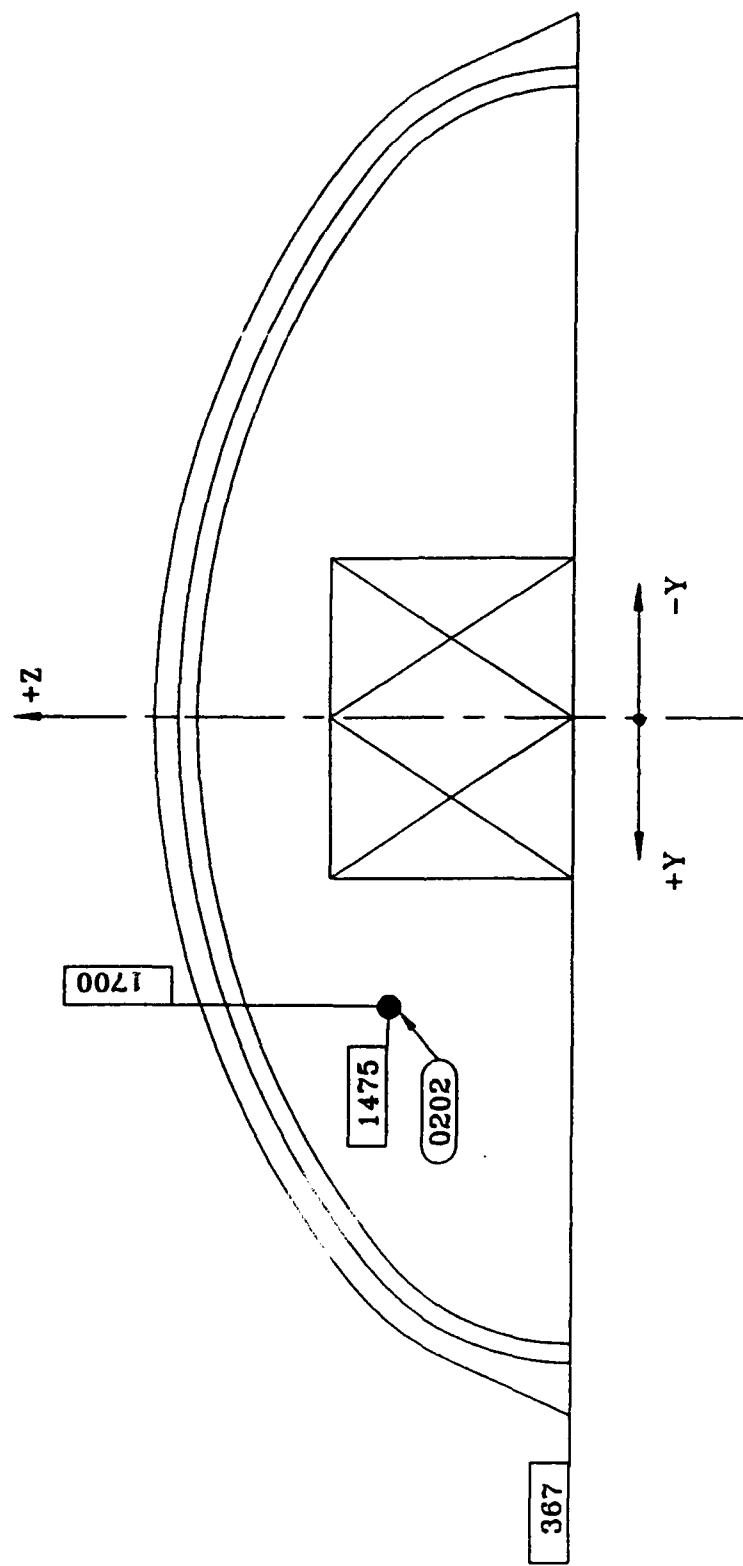


Figure D-6. Instrumentation on inner surface of backwall at $X = 13010$, PAS-4.

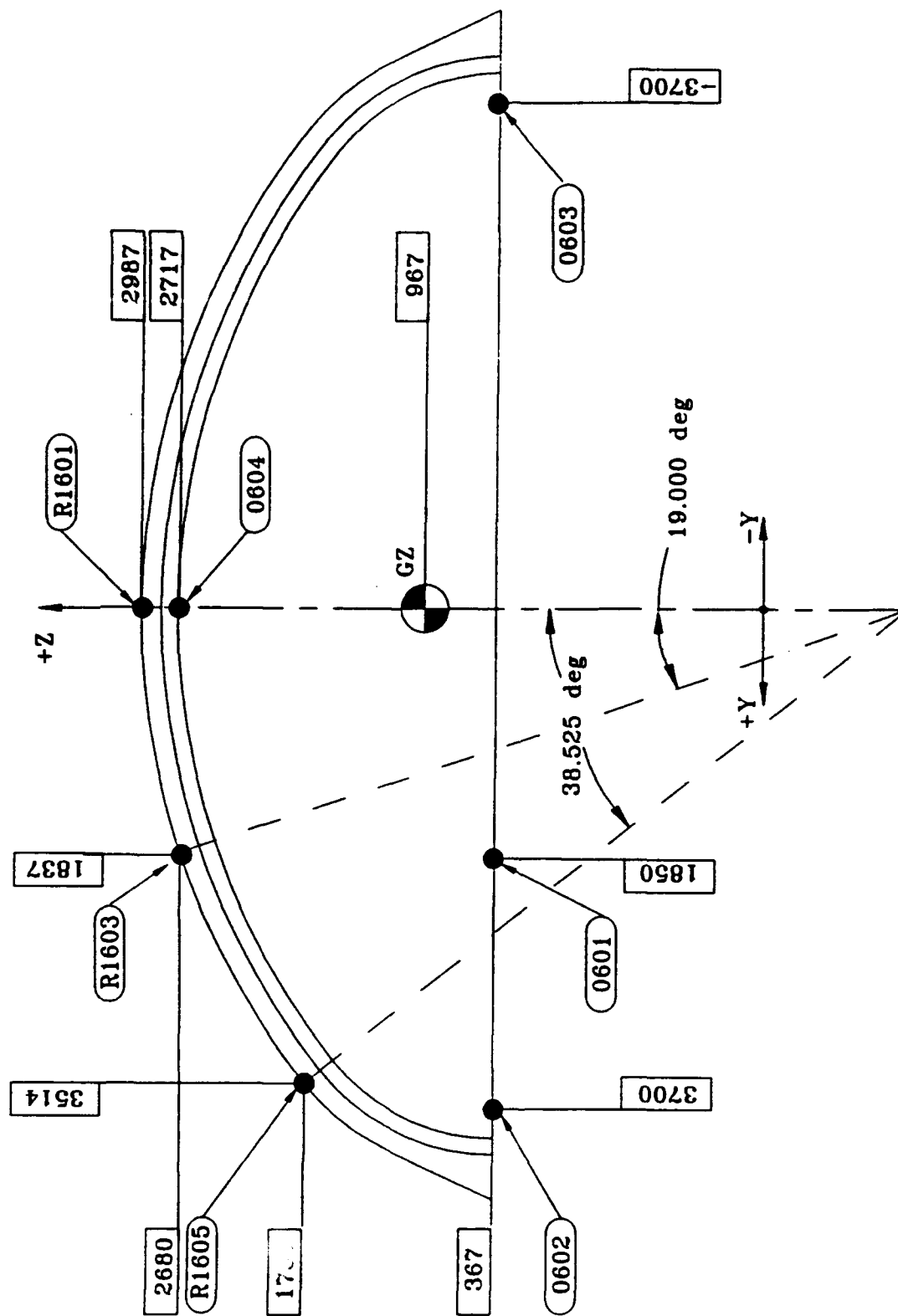
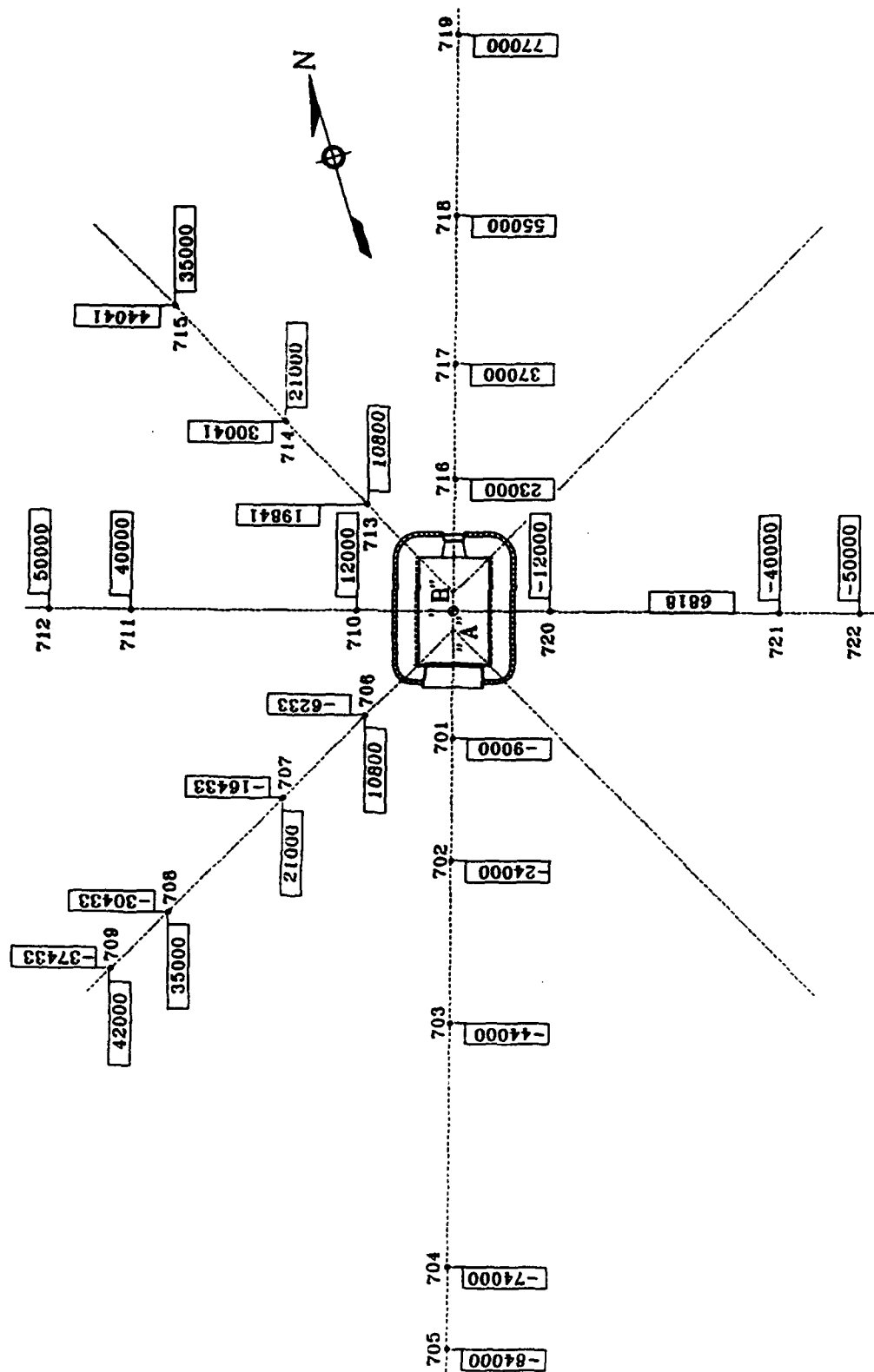
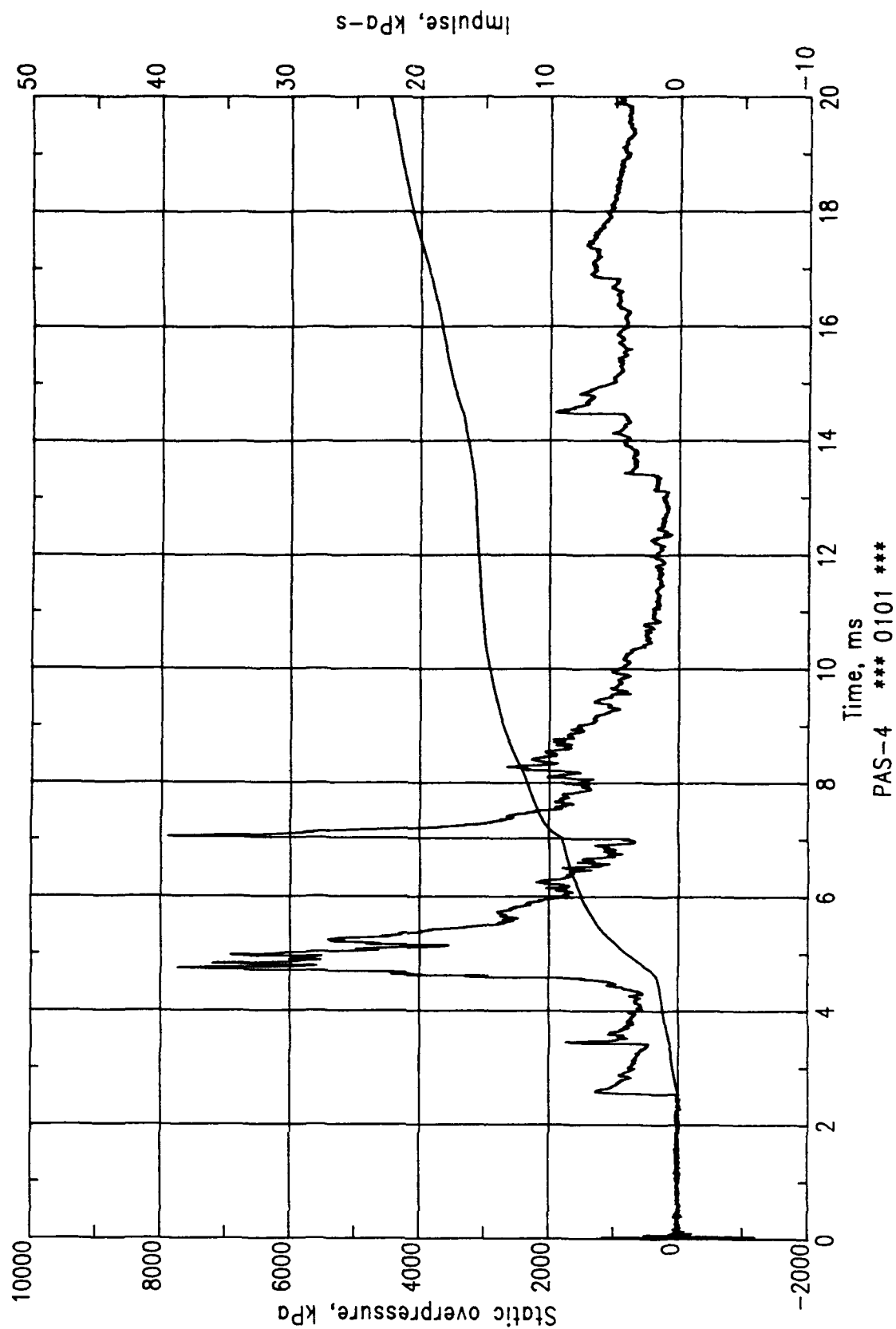


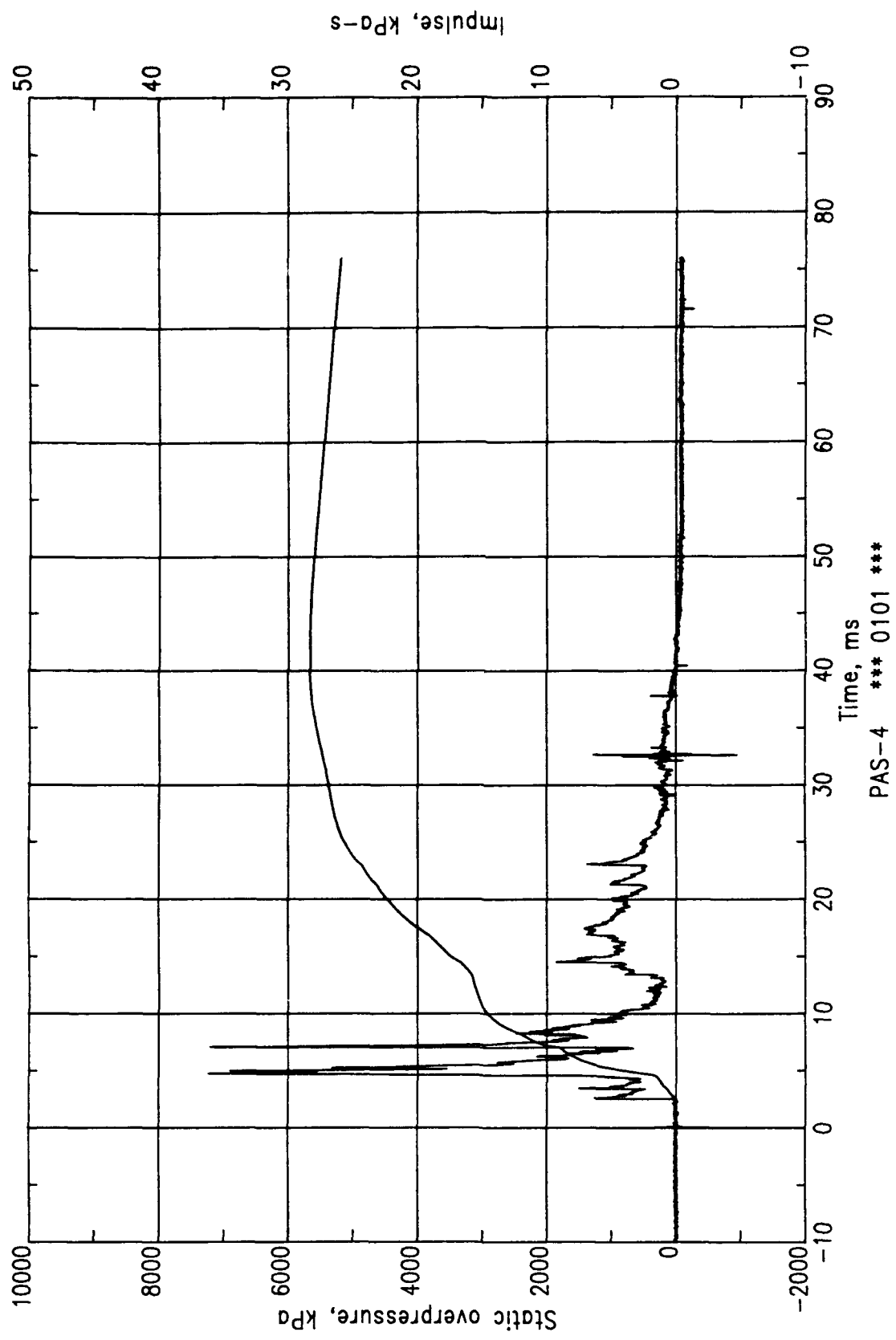
Figure D-7. Instrumentation on arch at X = 6818, PAS-4.

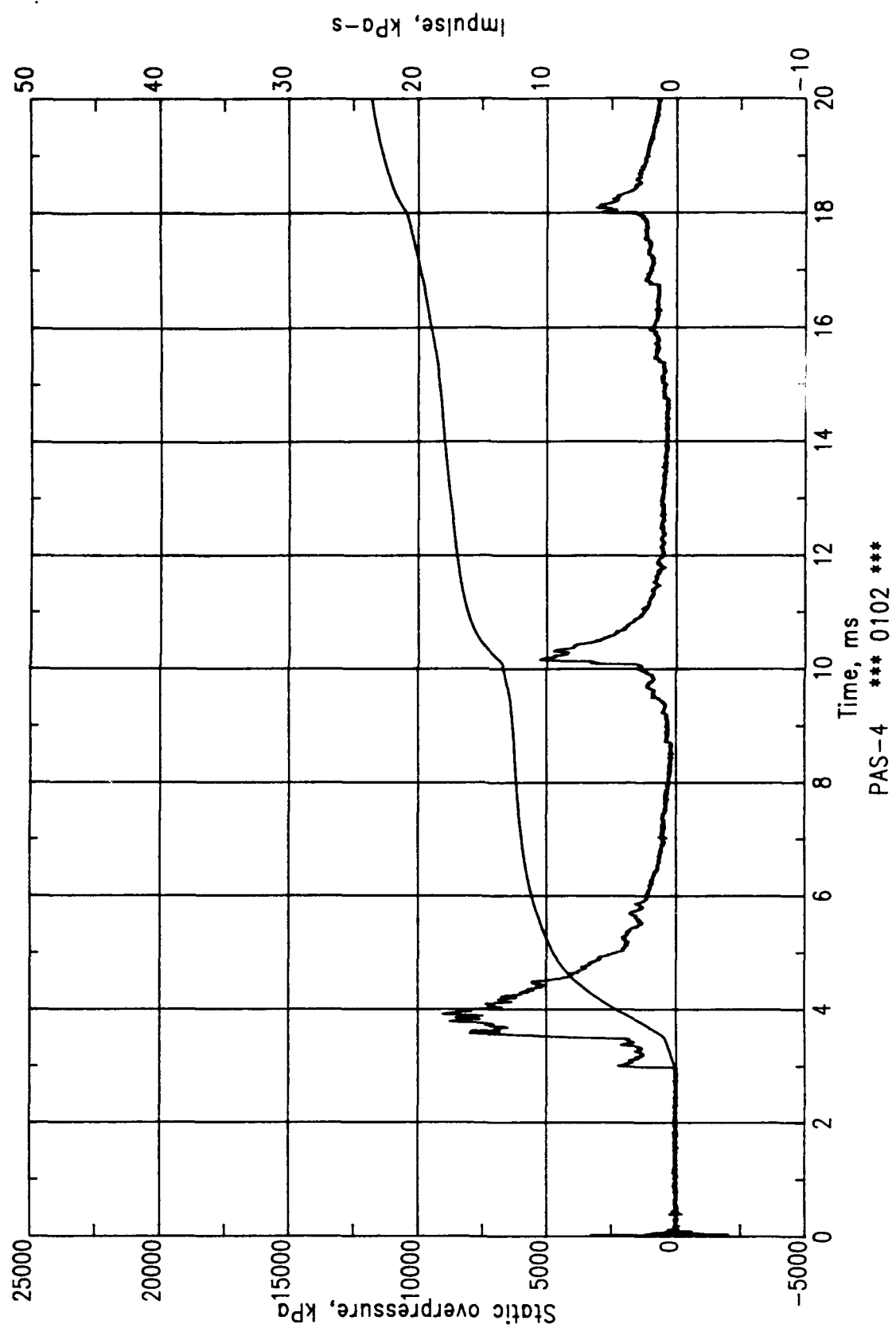


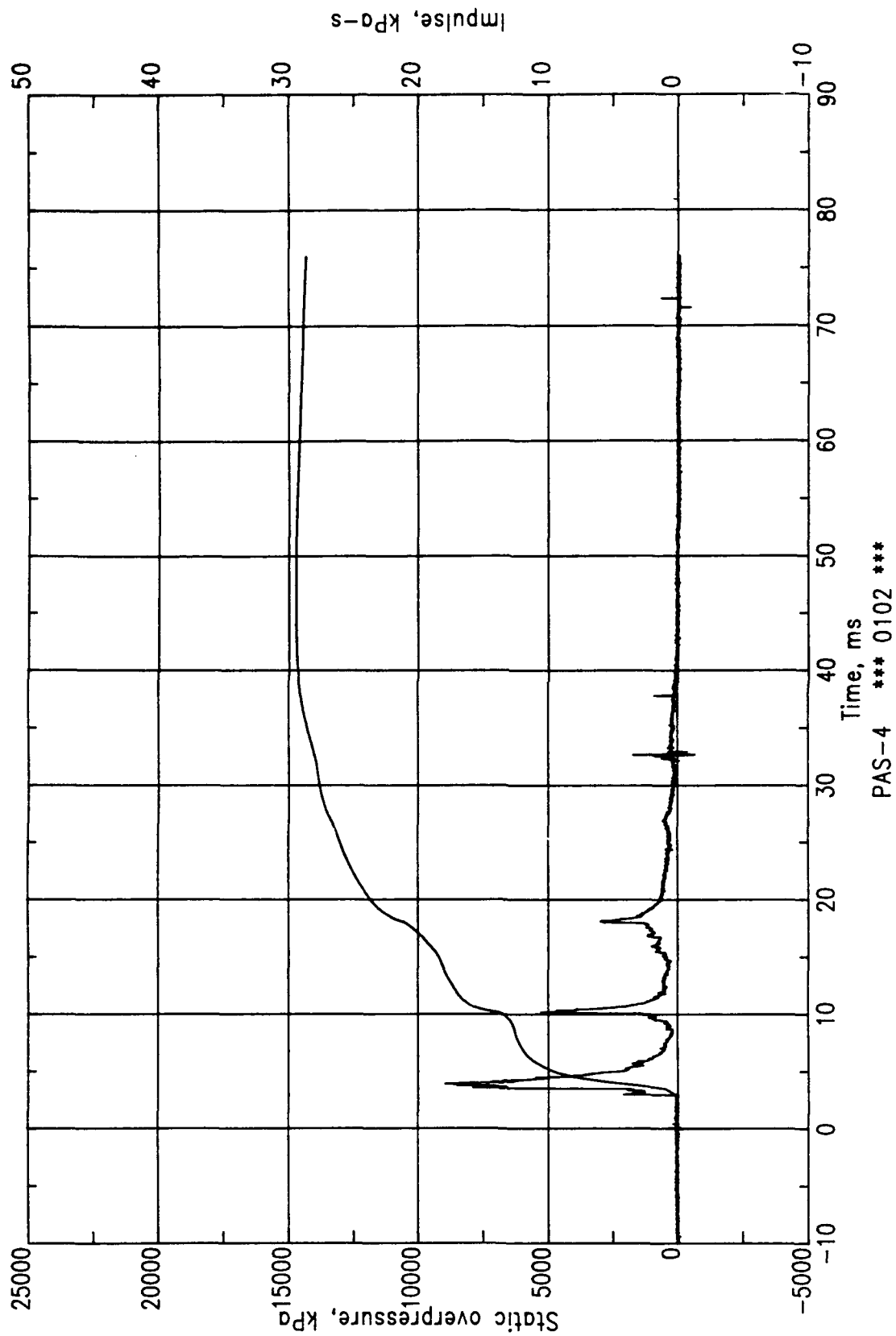
TEST BED GRADE AT Z=350

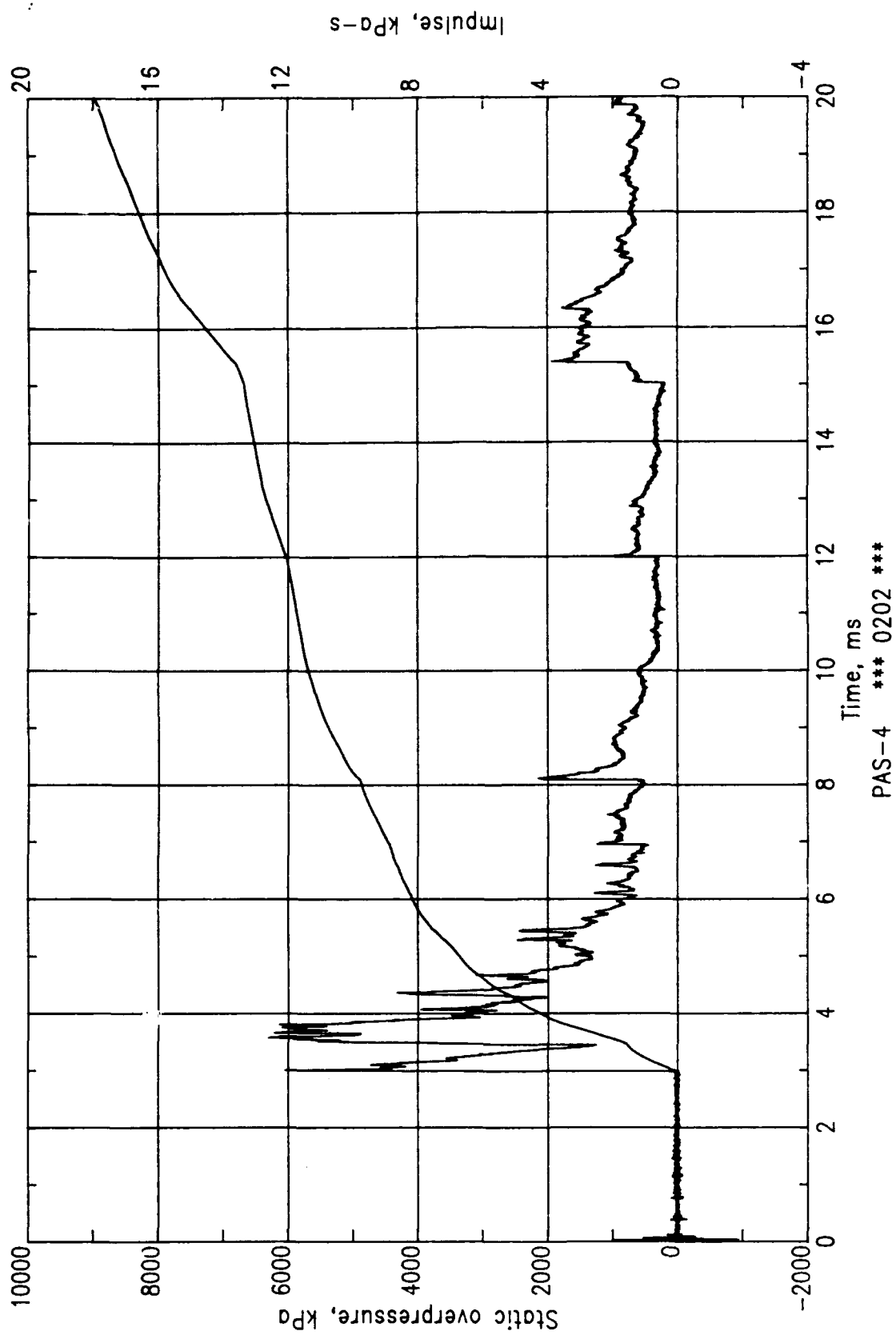
Figure D-8. Free-field airblast gage locations, PAS-4.

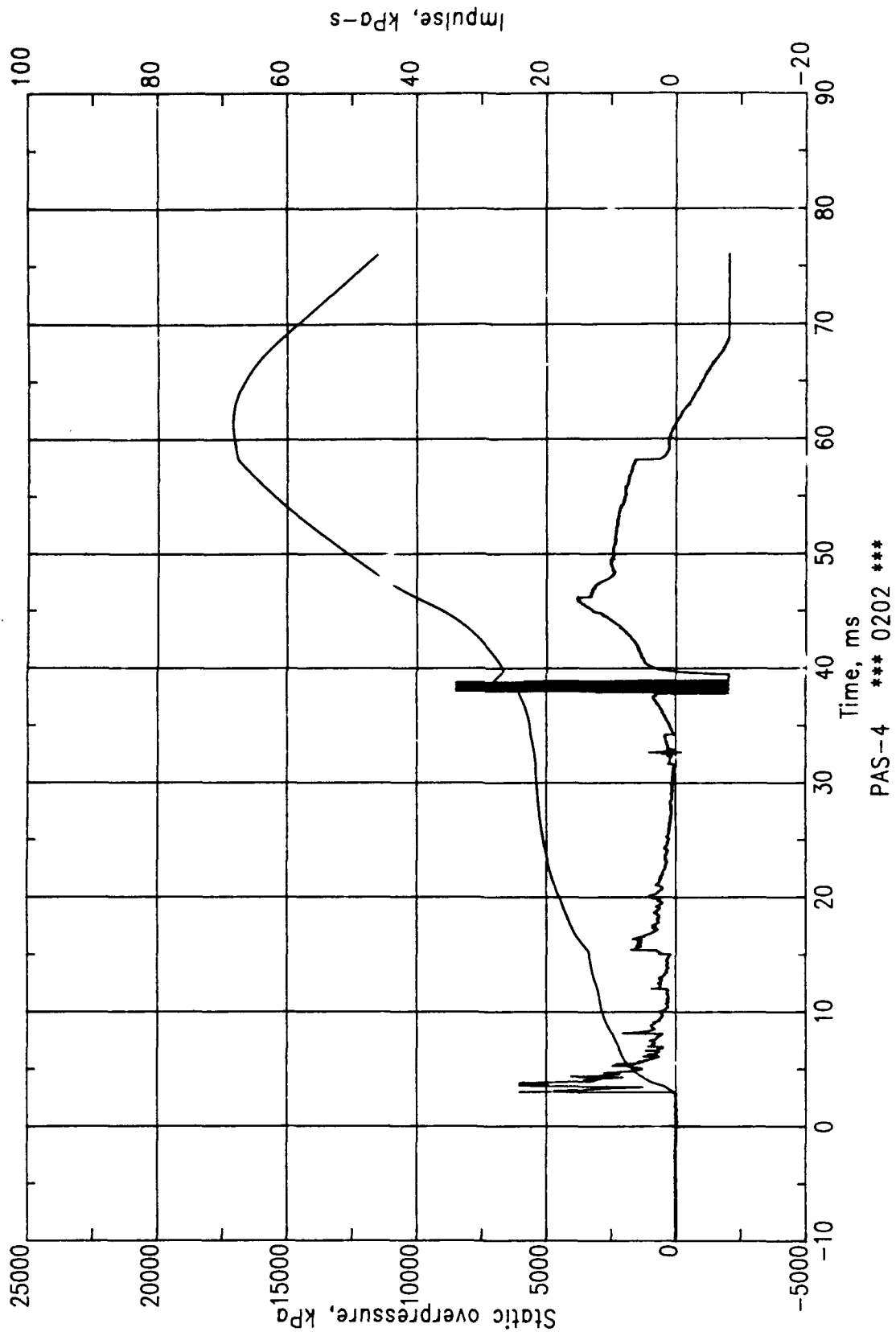


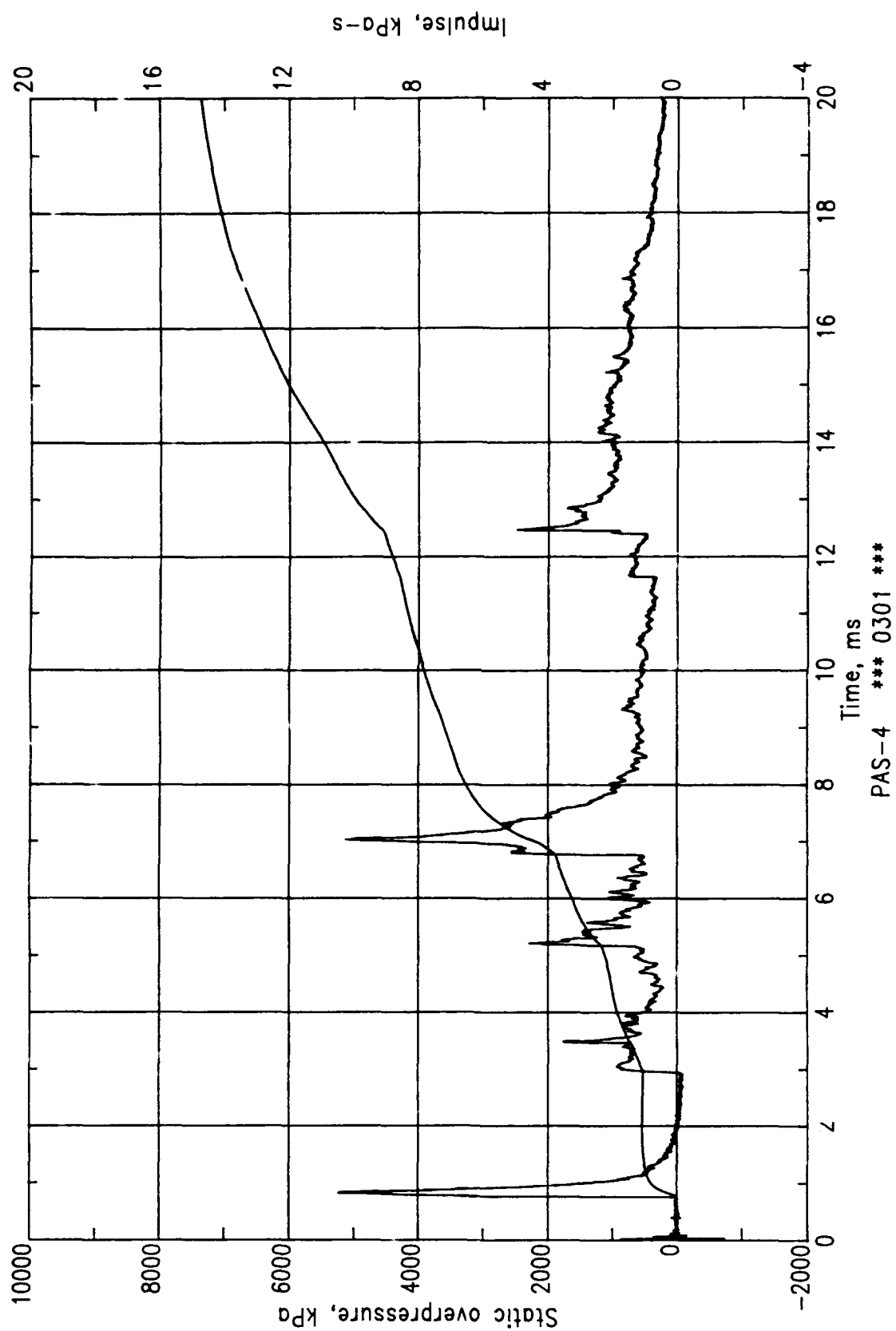


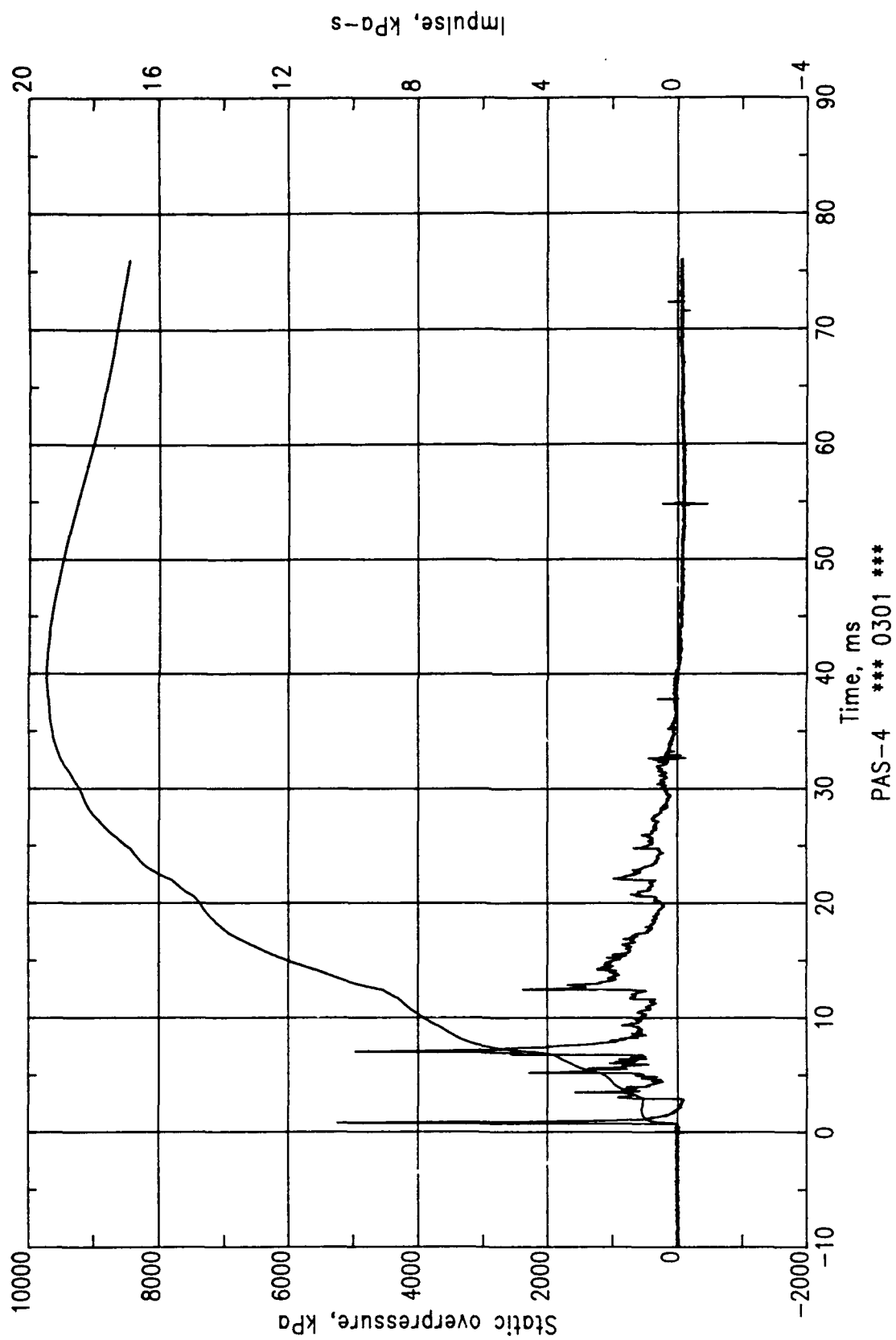


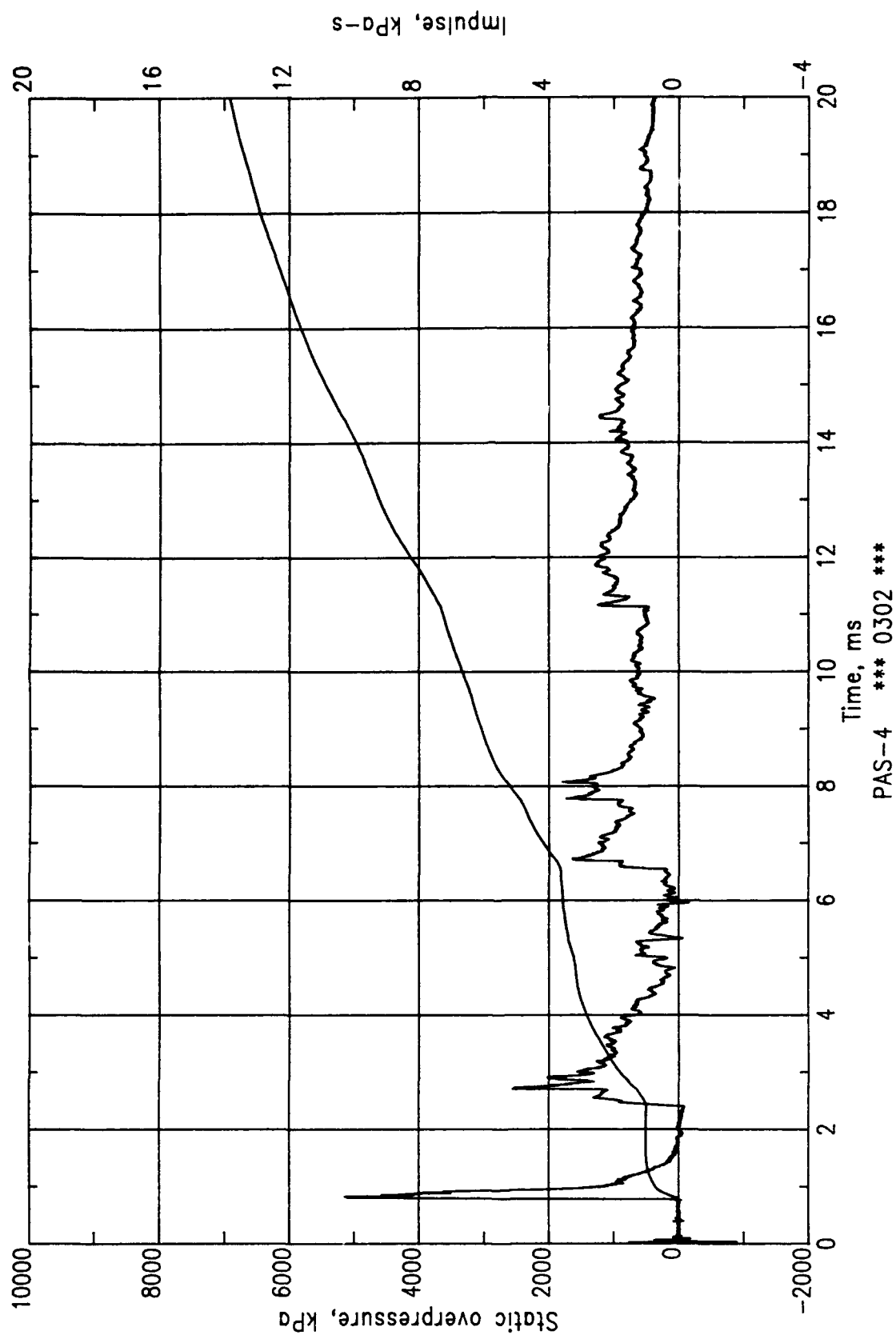


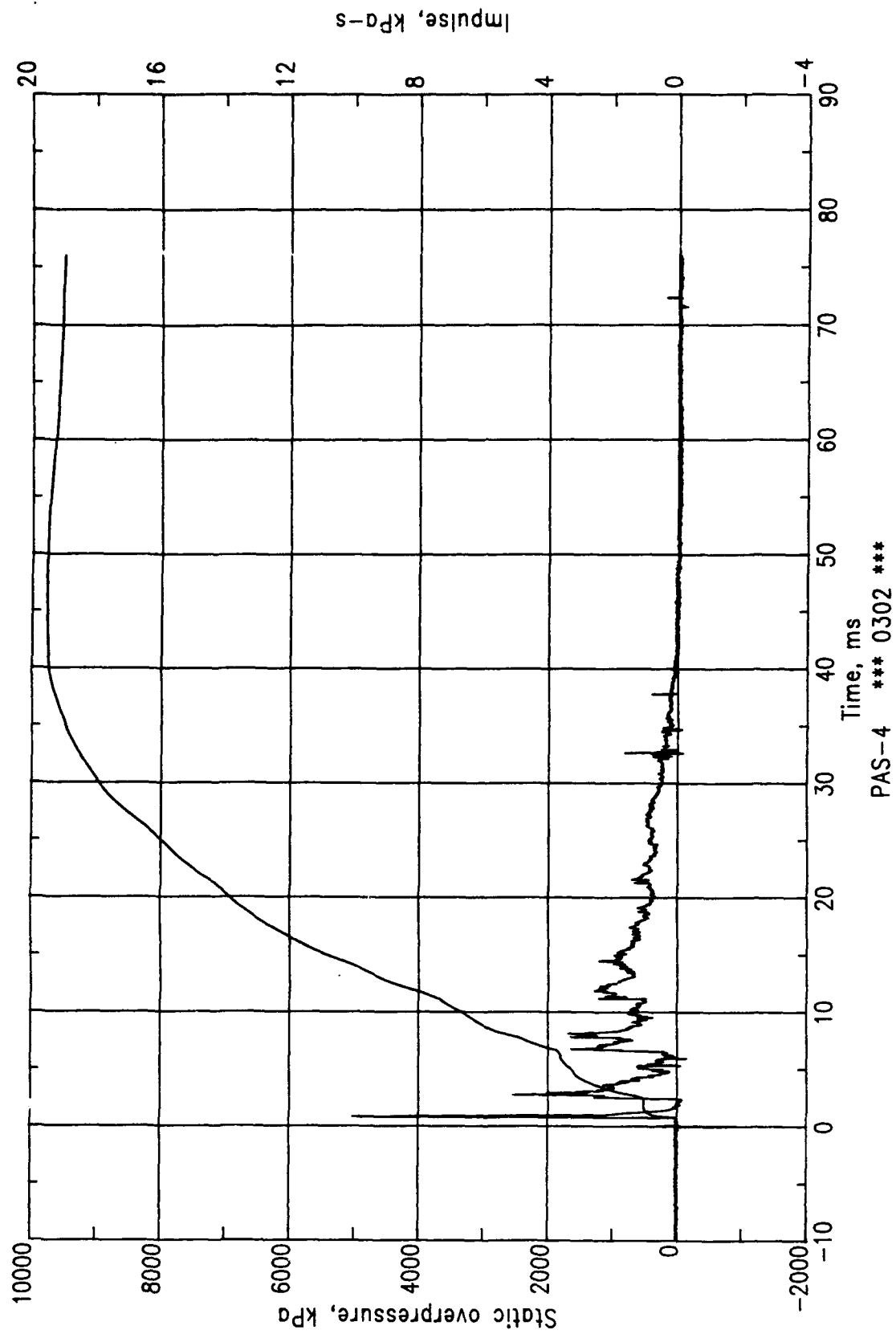


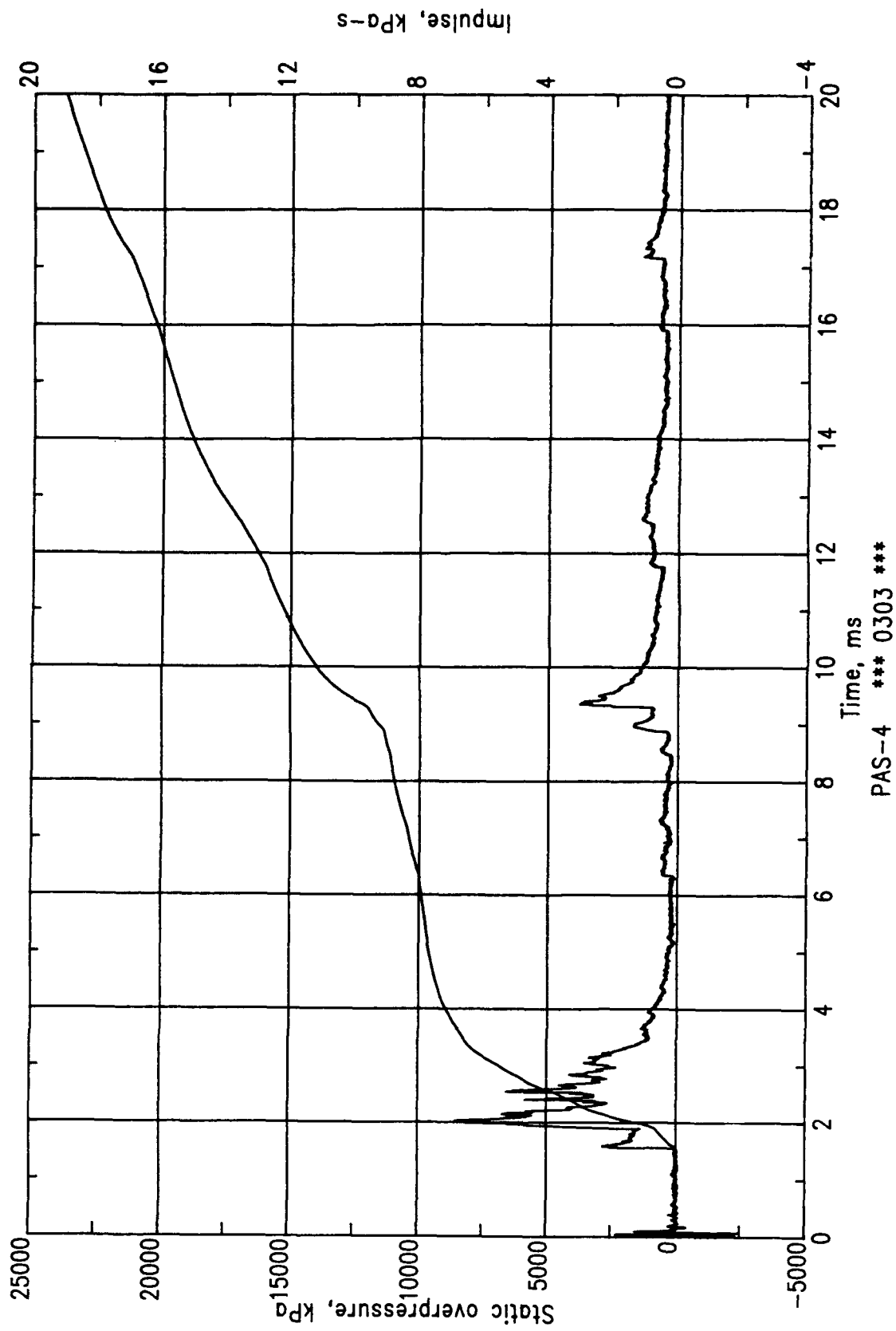


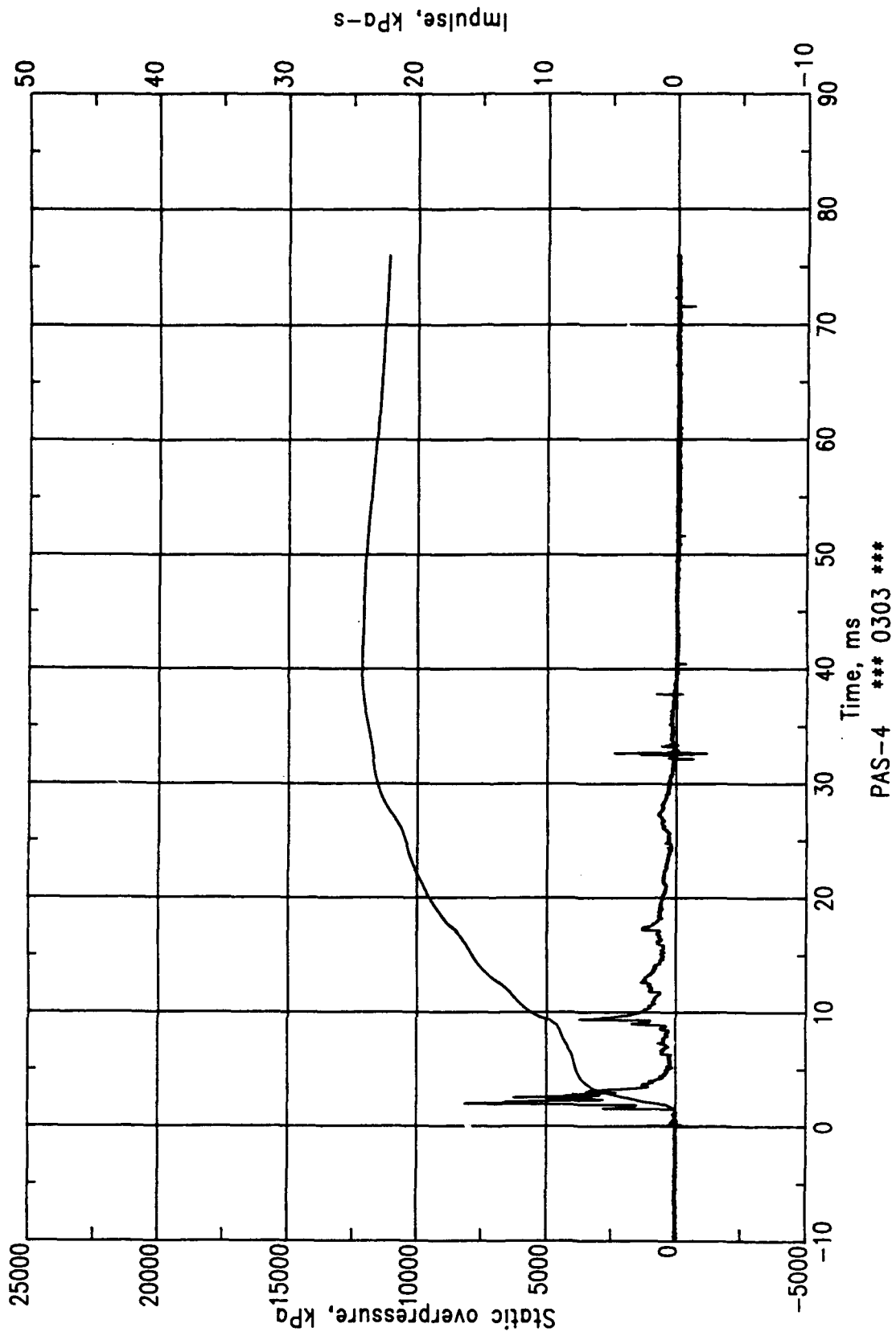


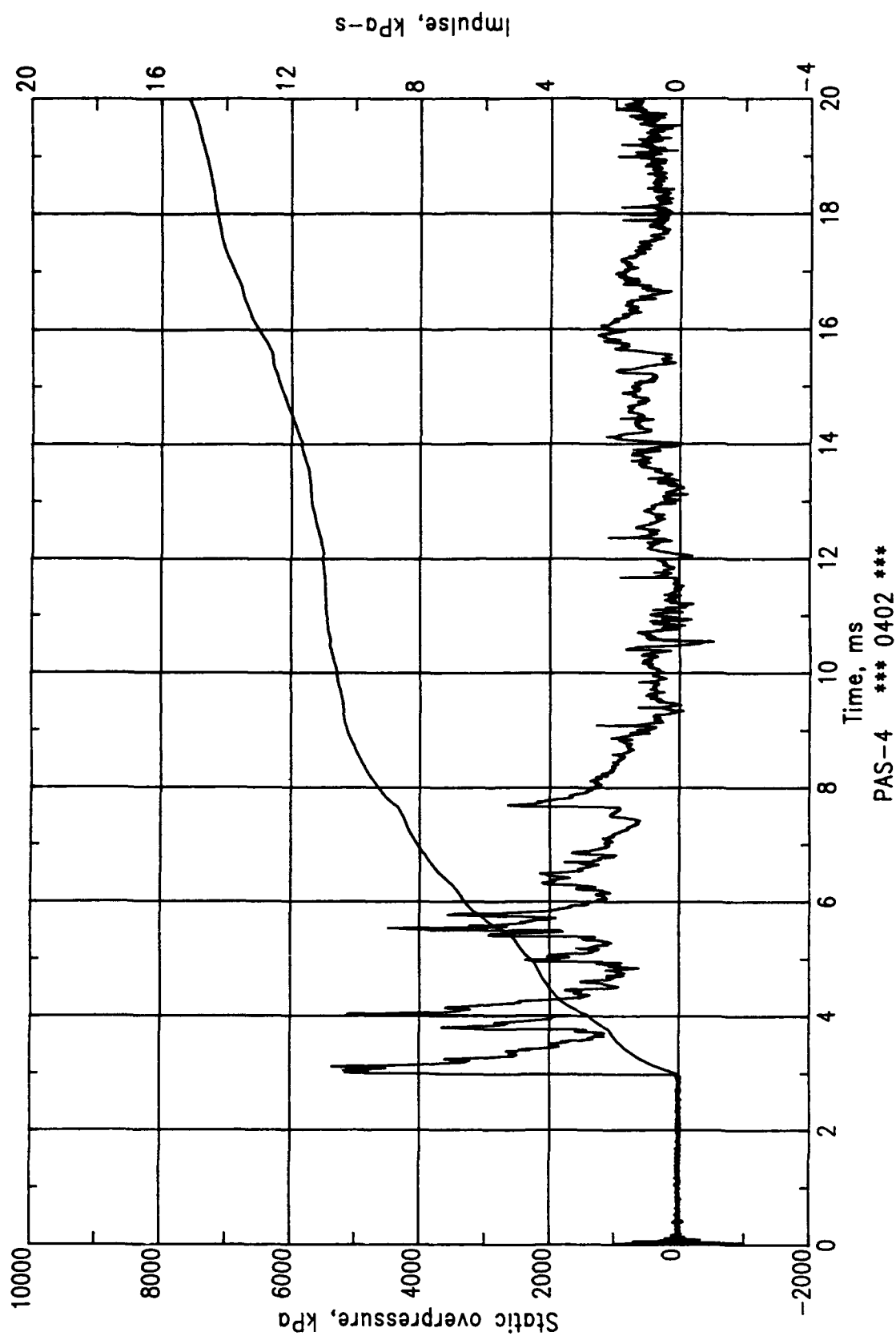


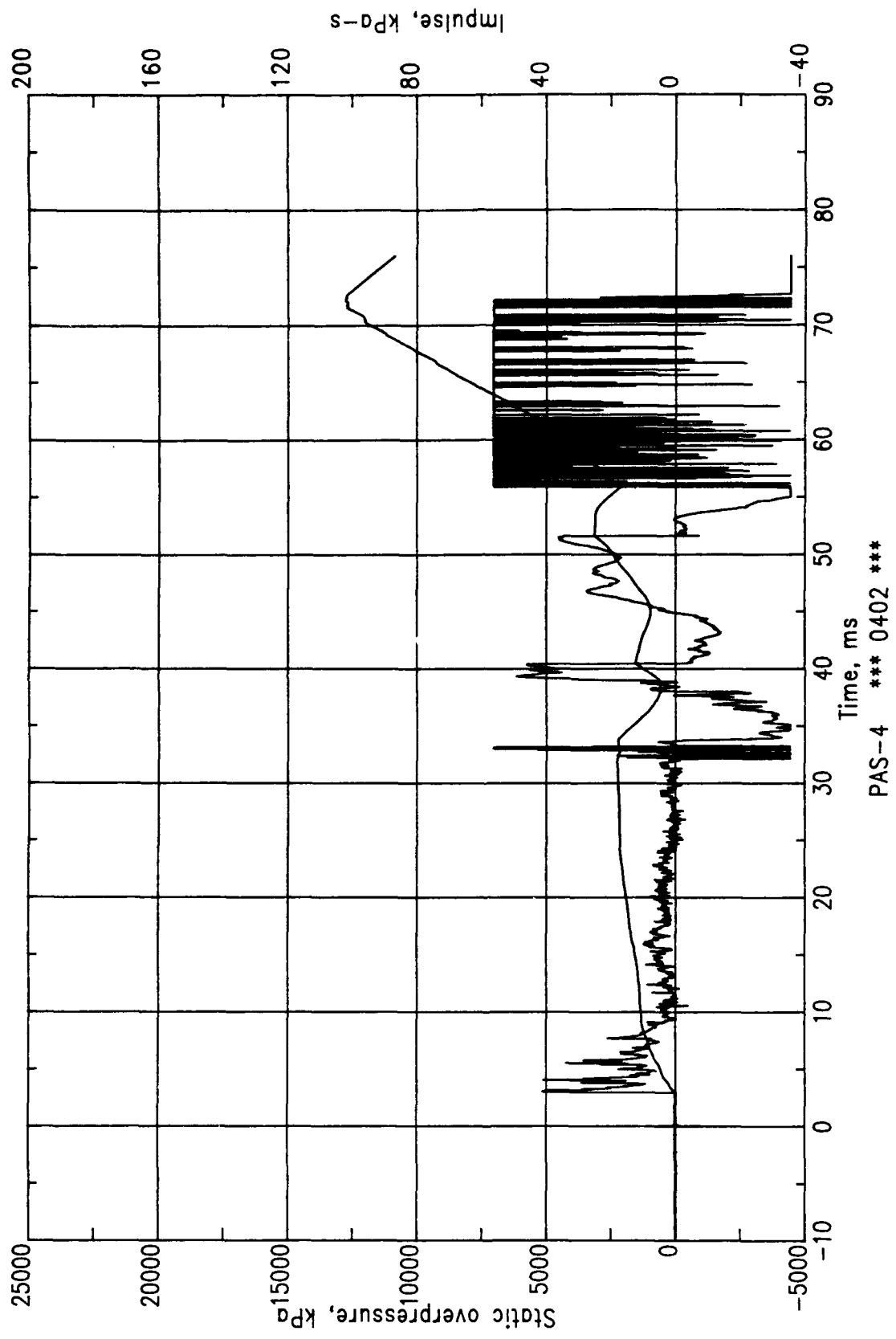


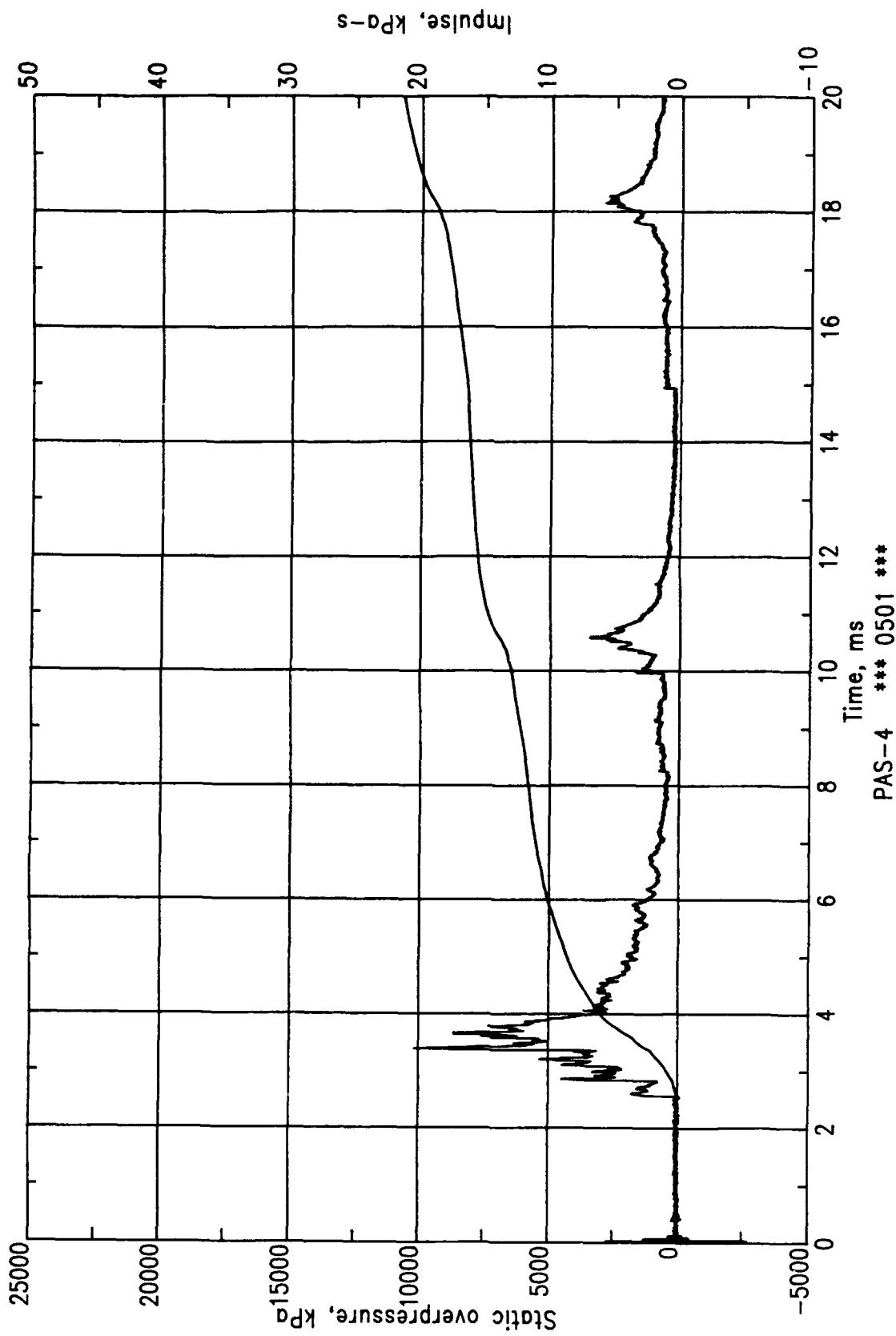


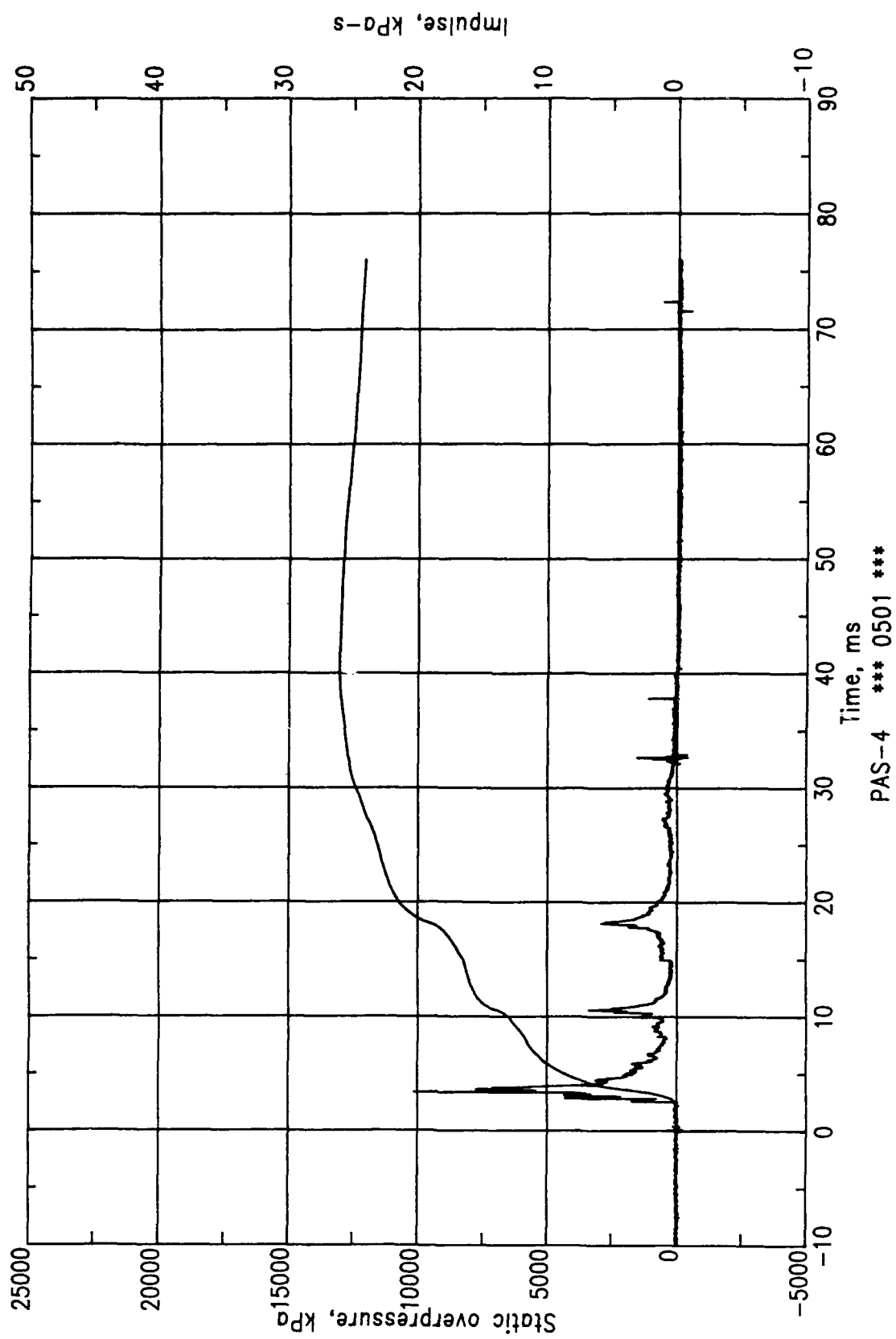


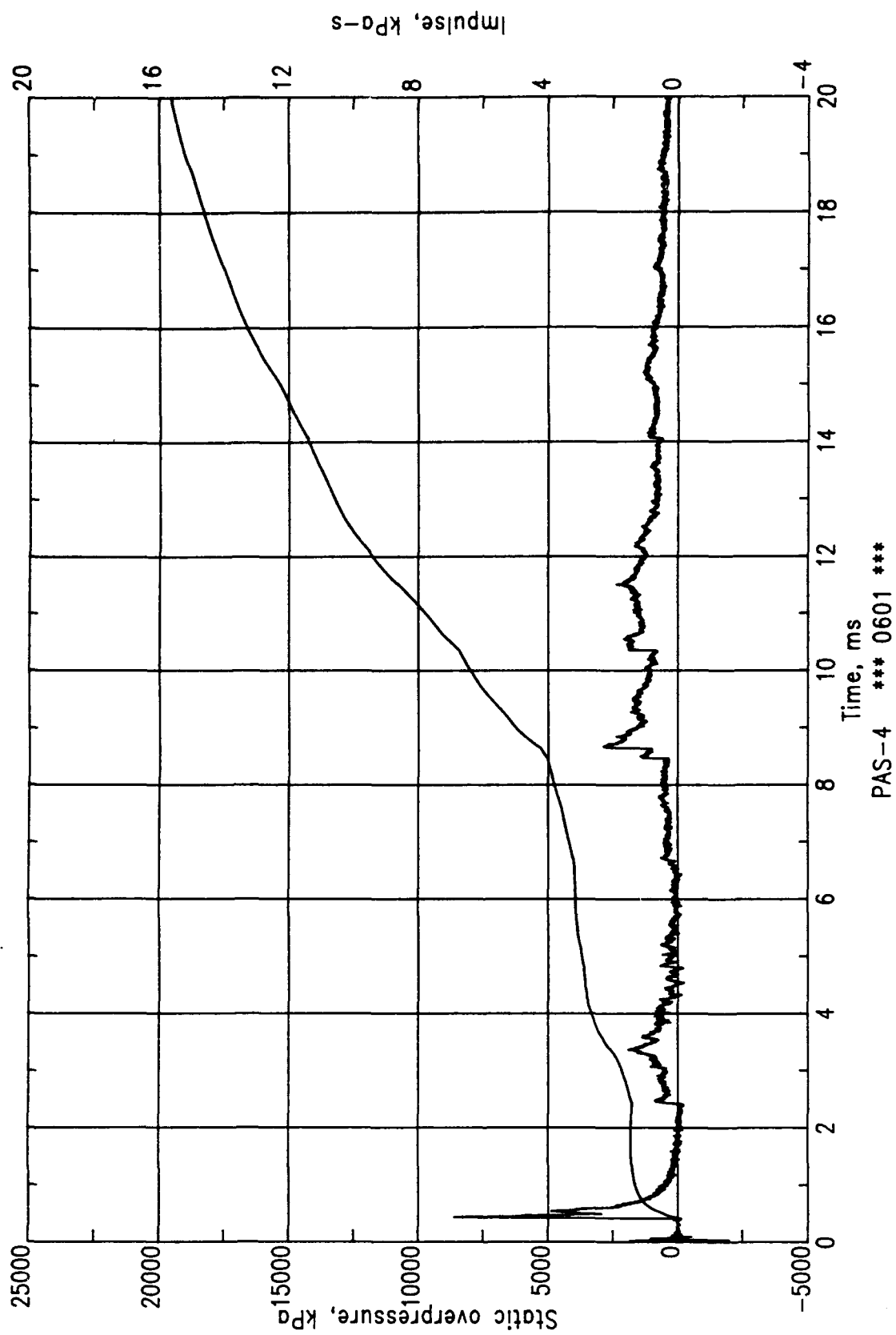


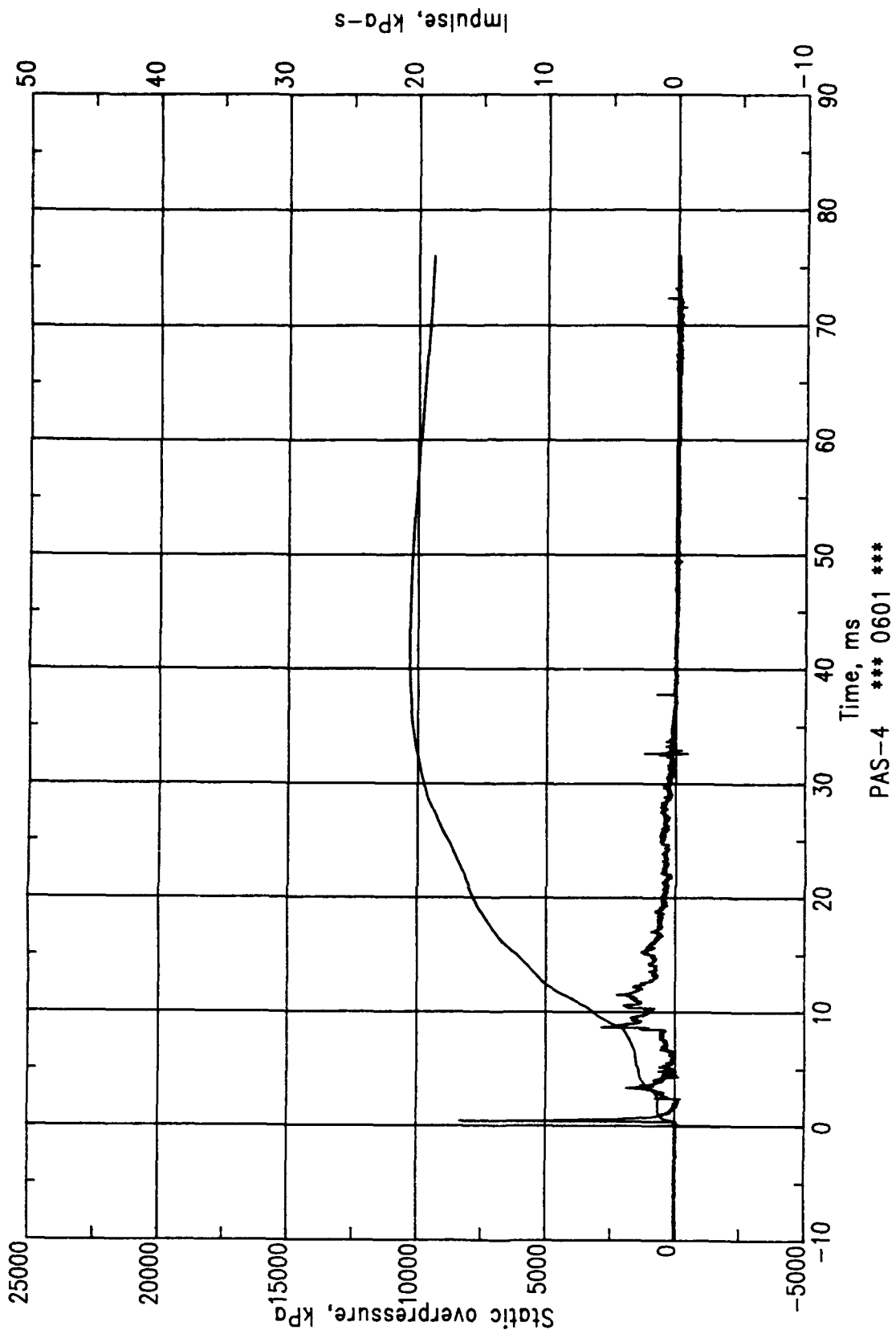


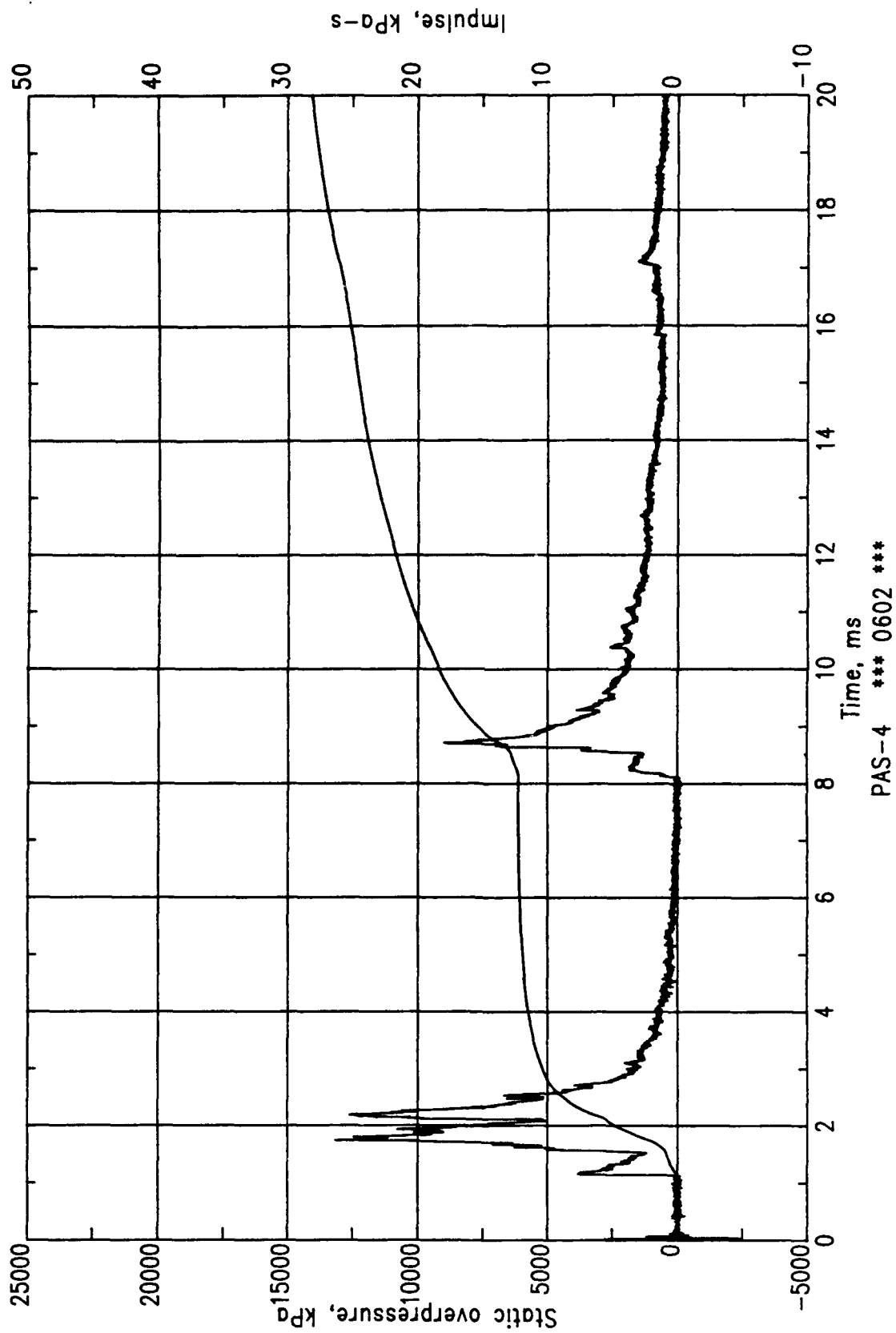


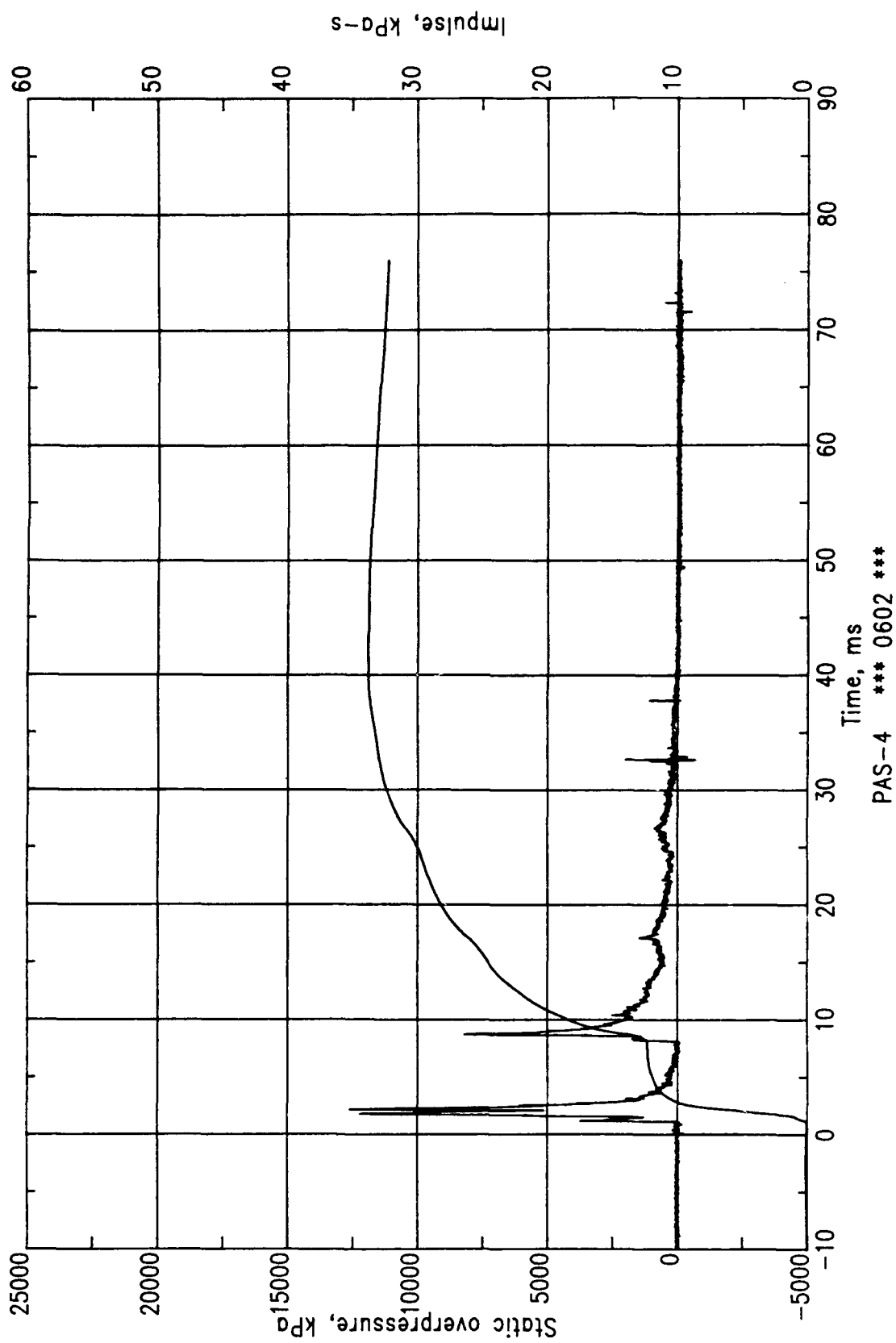


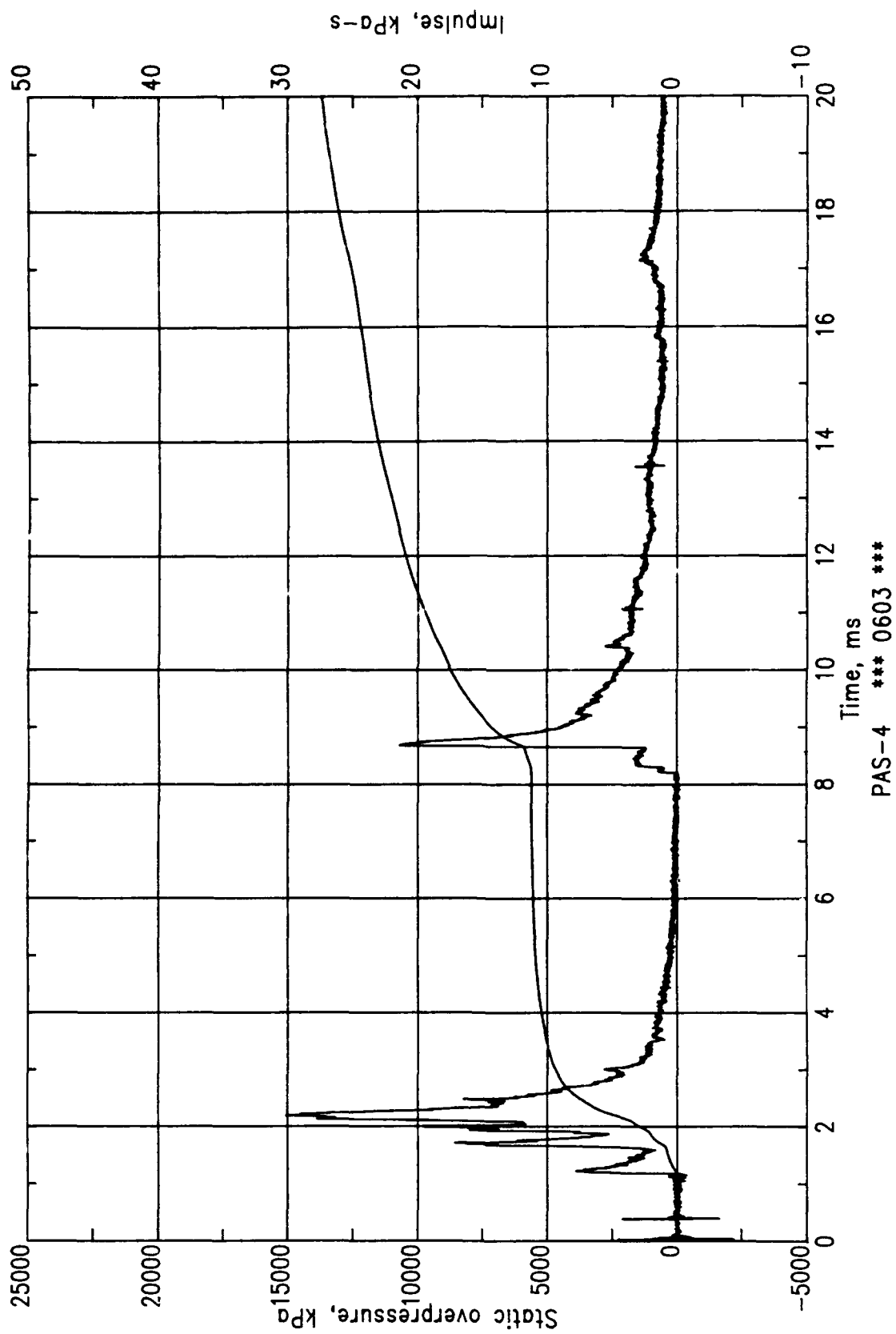


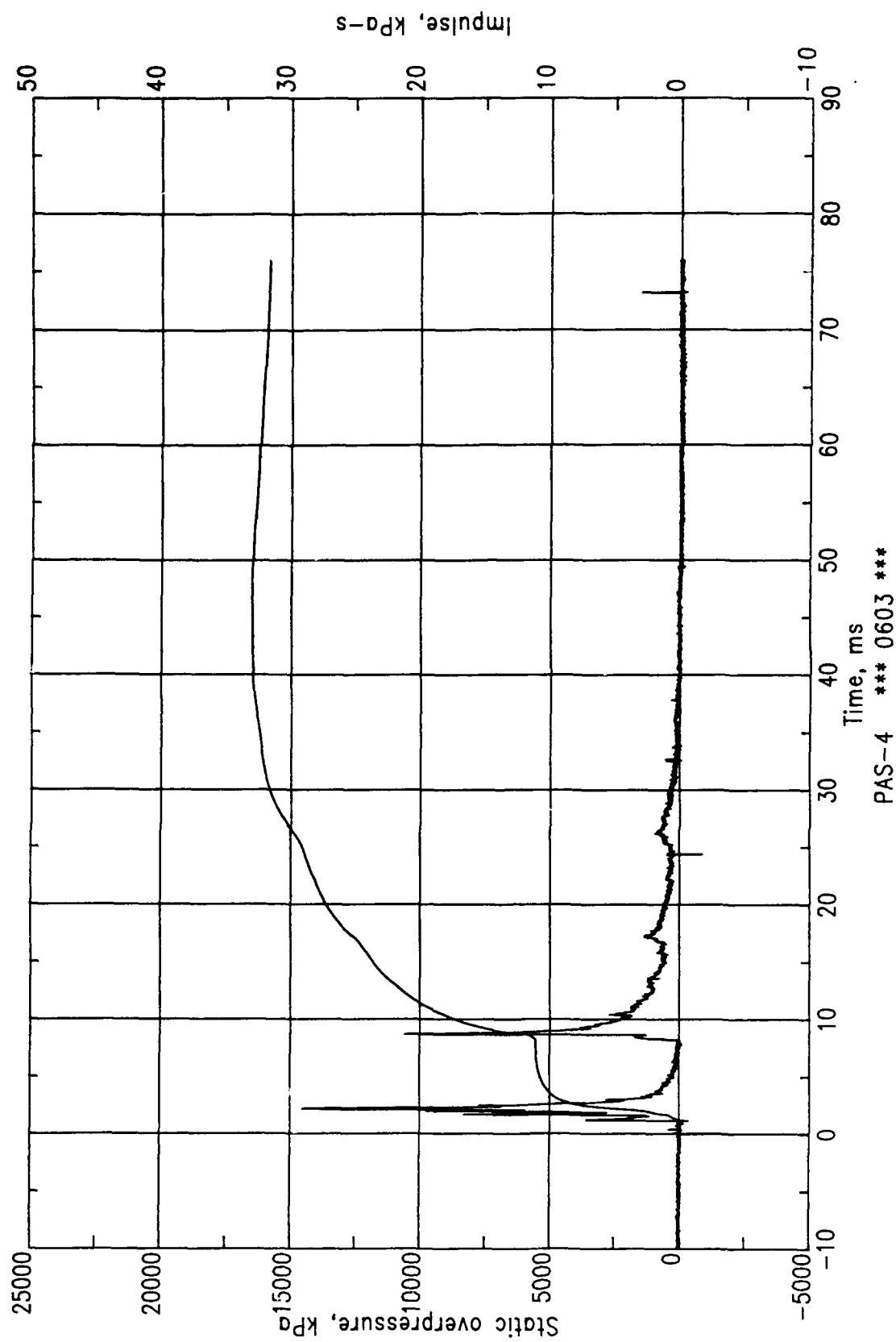


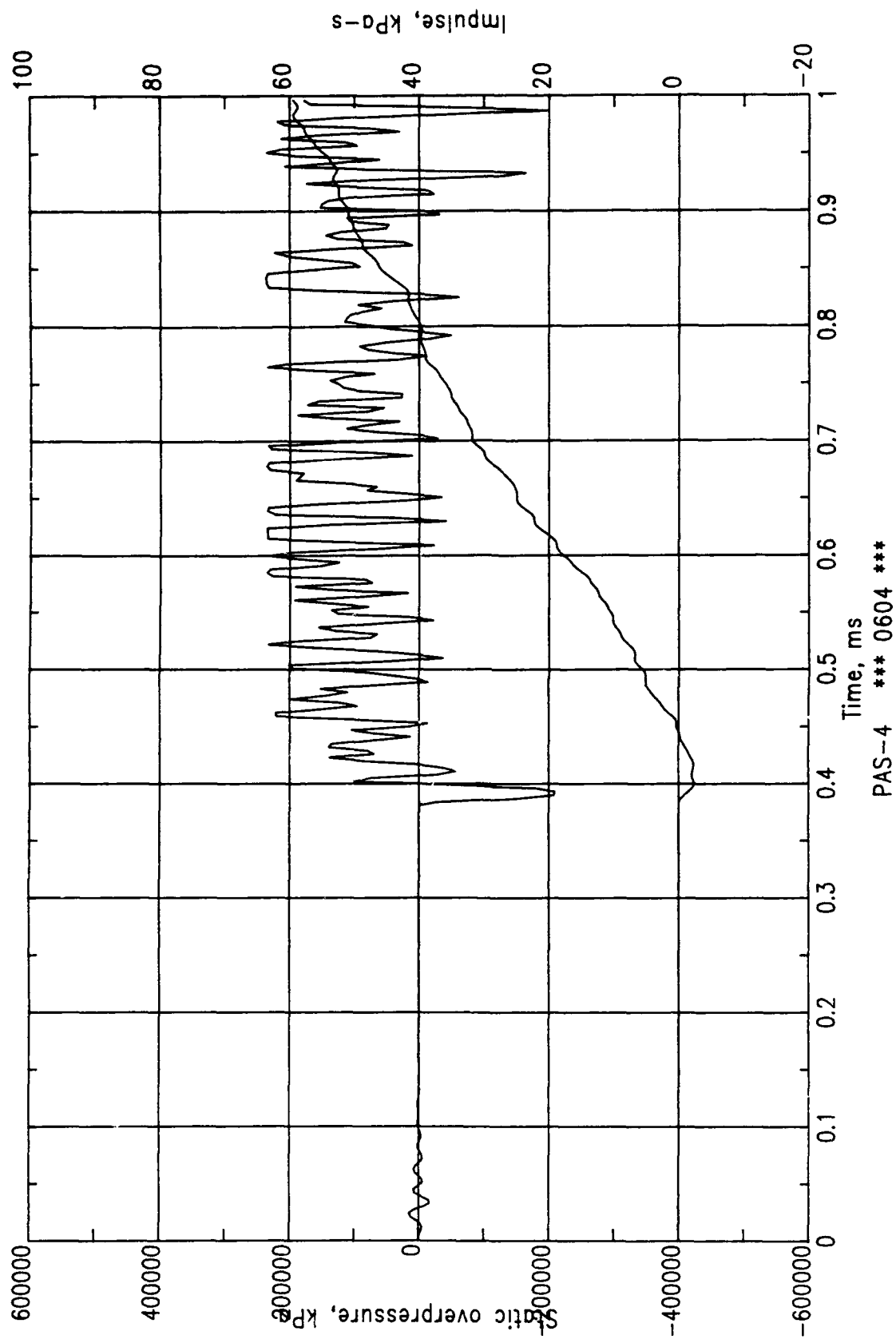


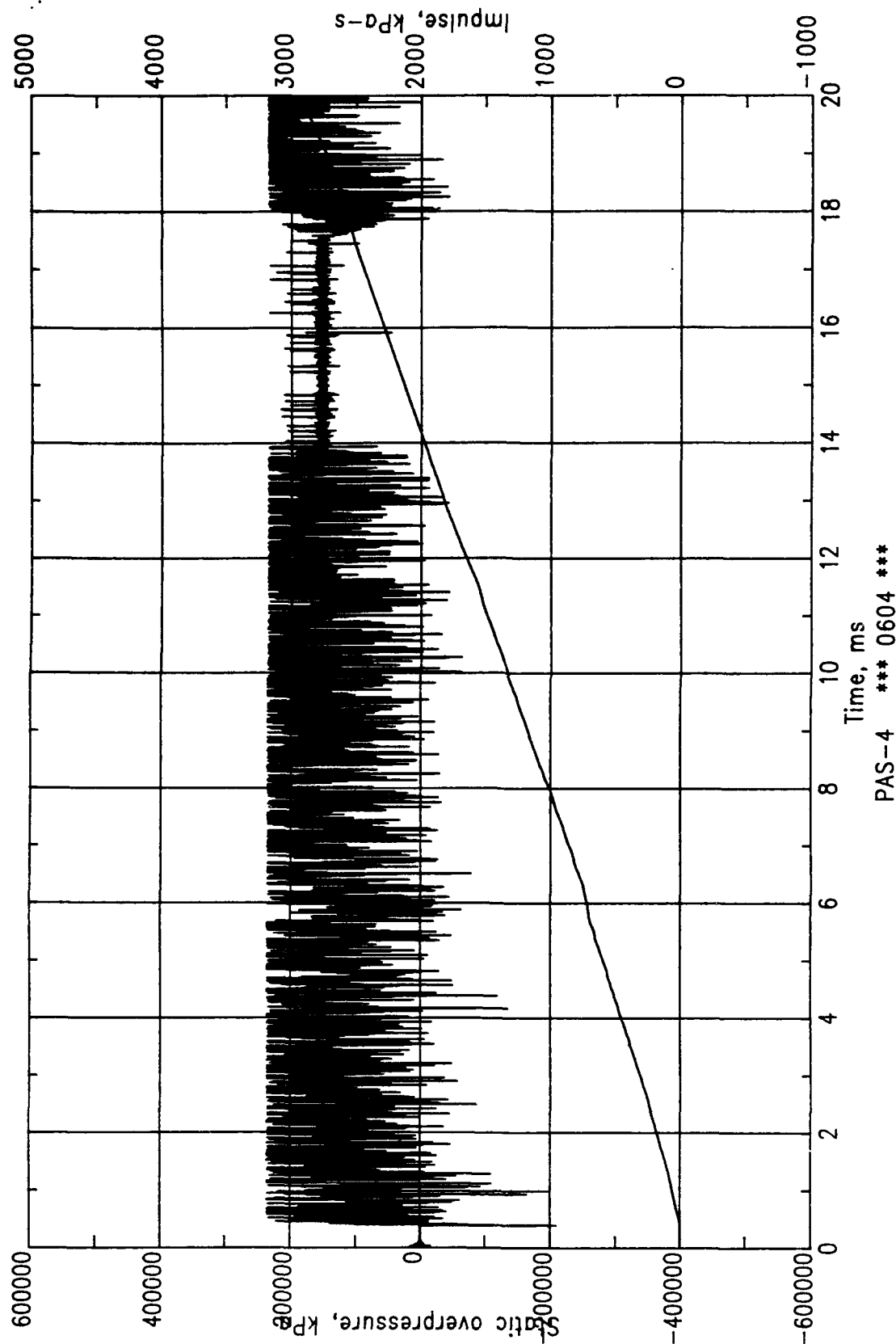


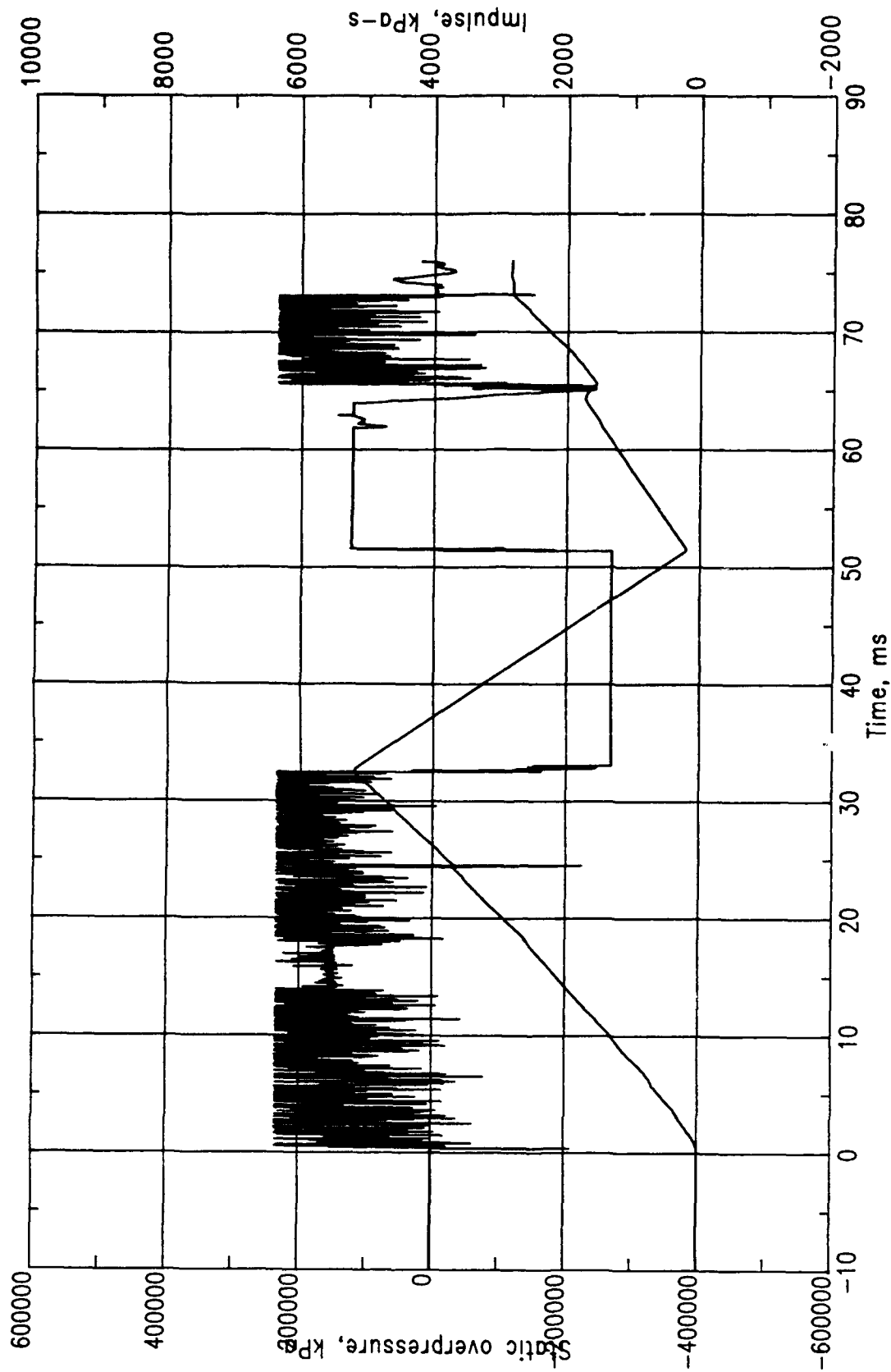




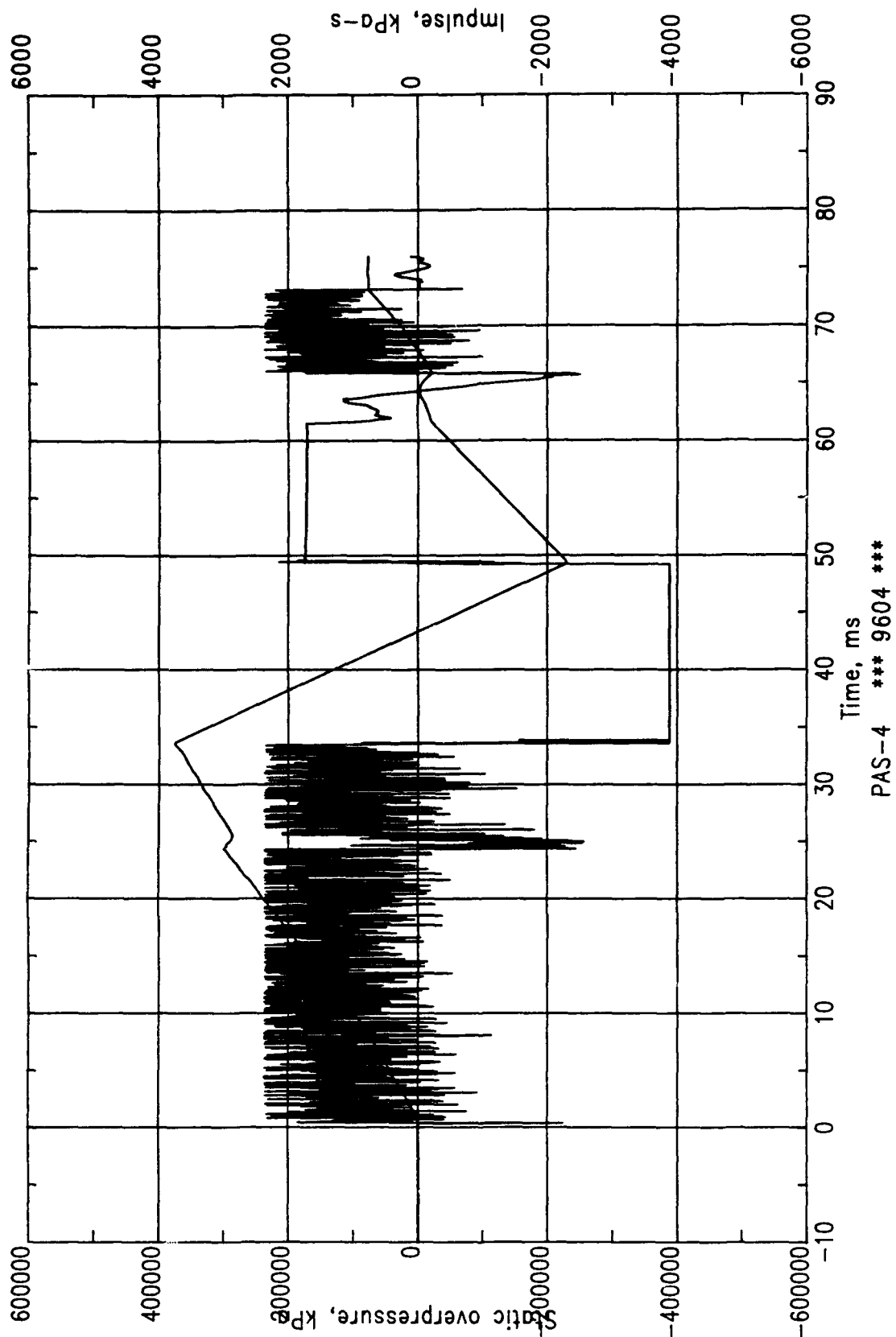




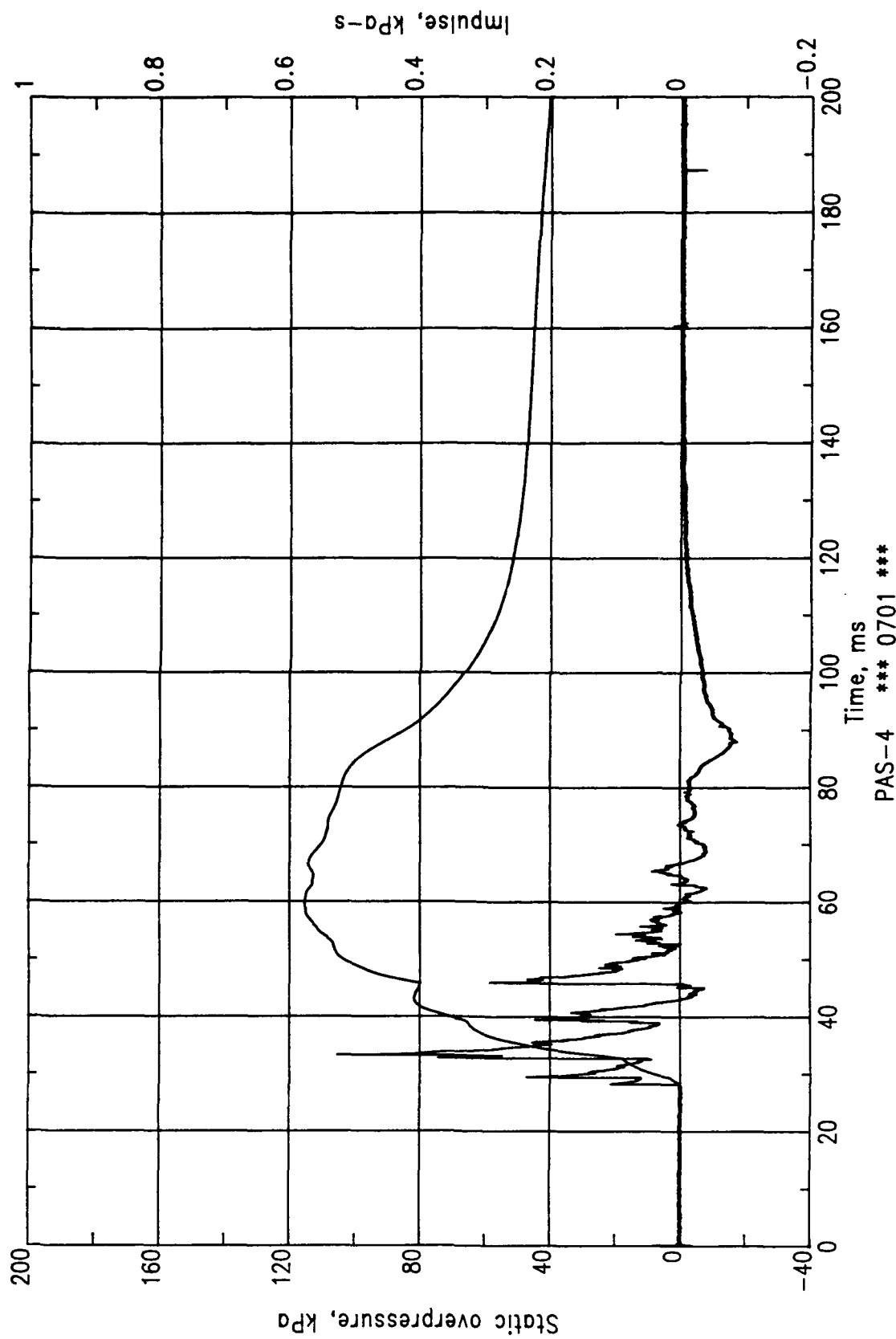


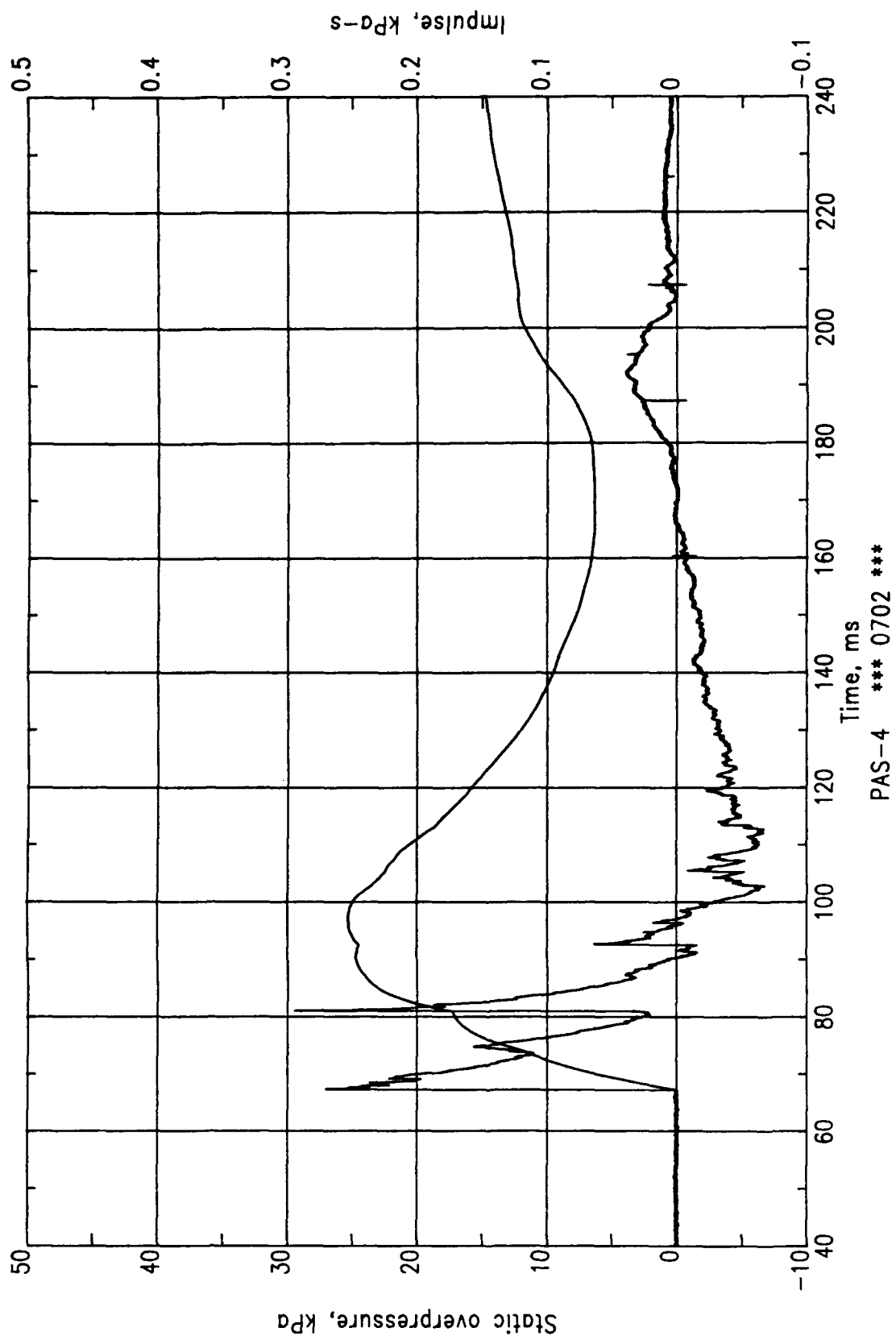


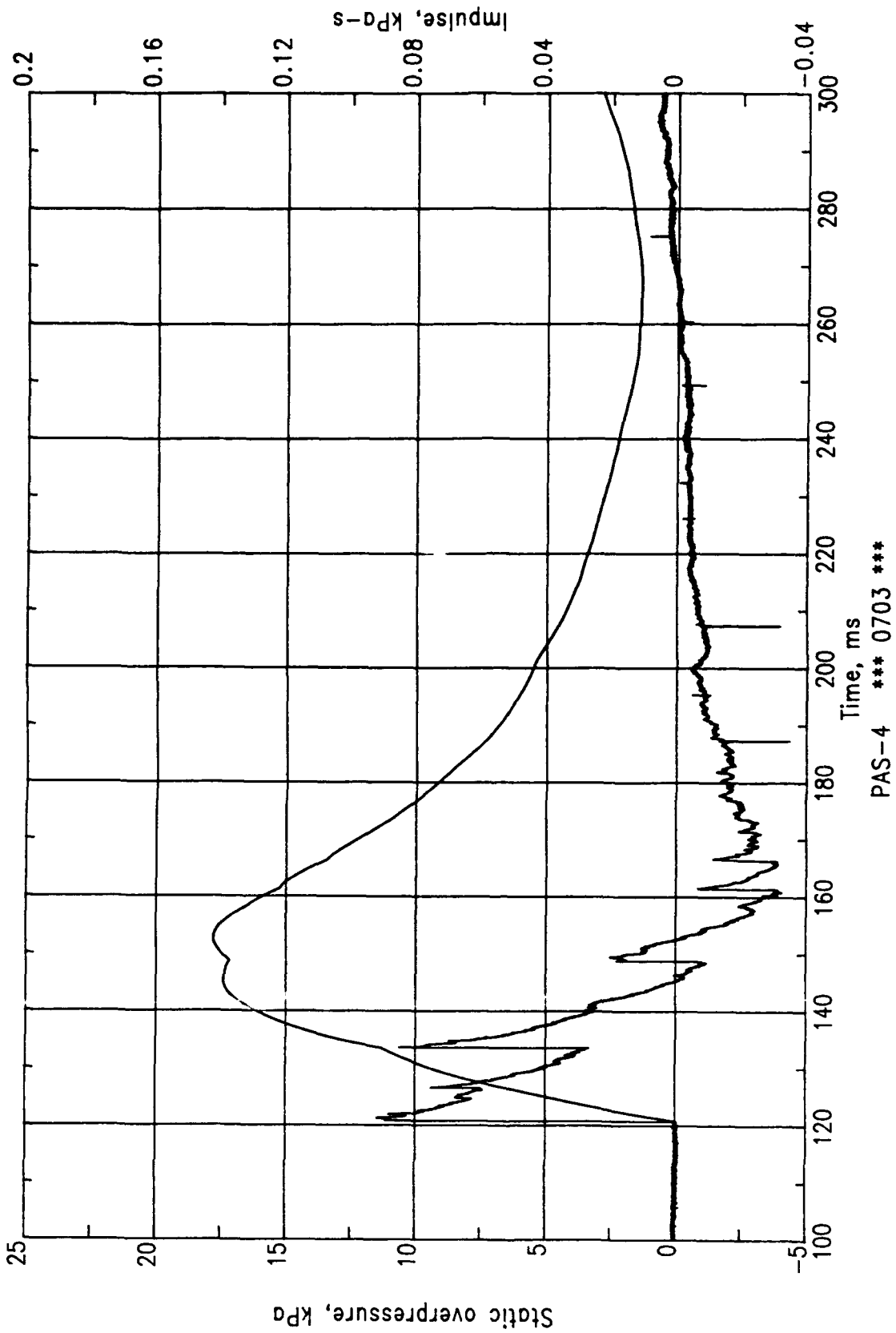
PAS-4 *** 0604 ***

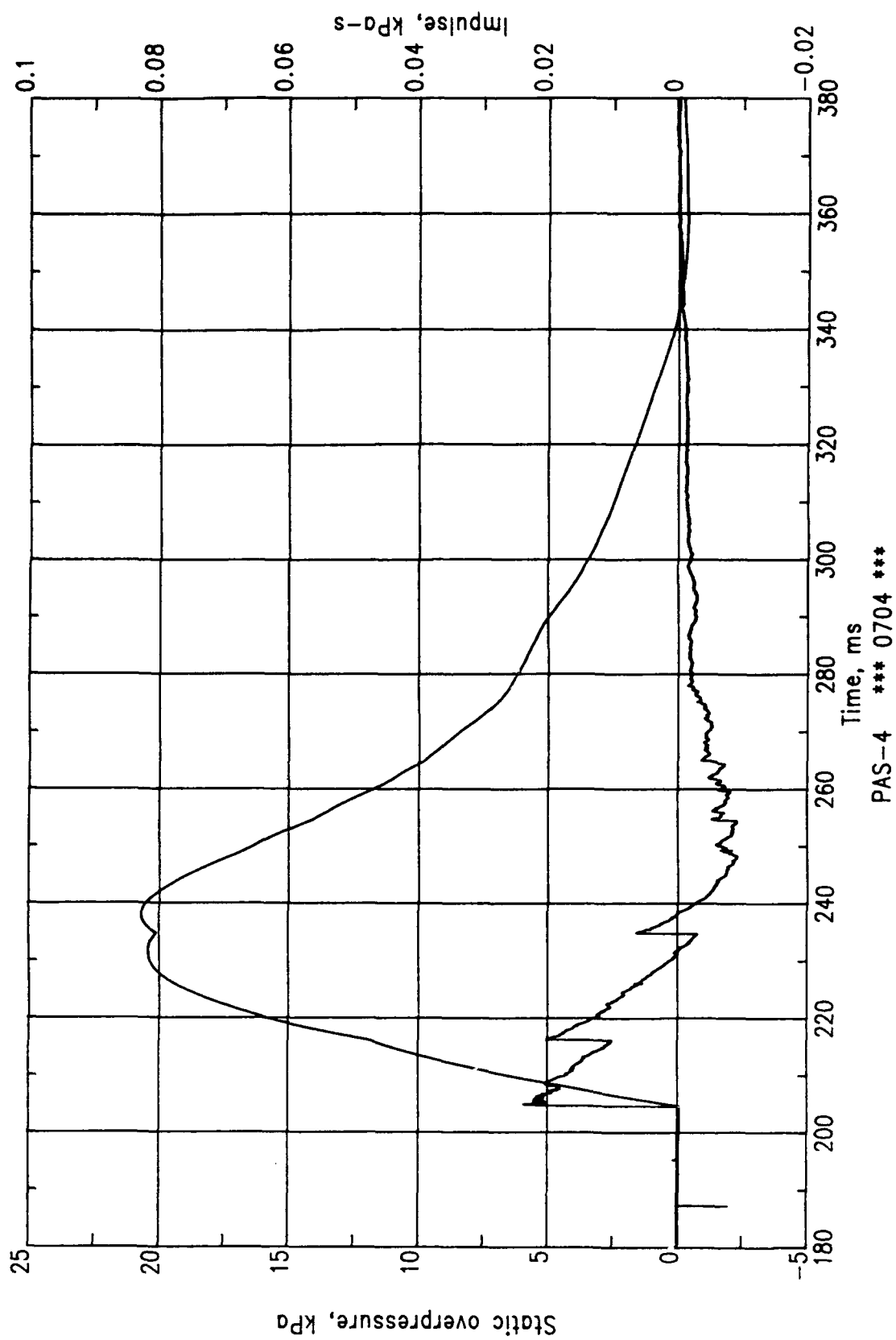


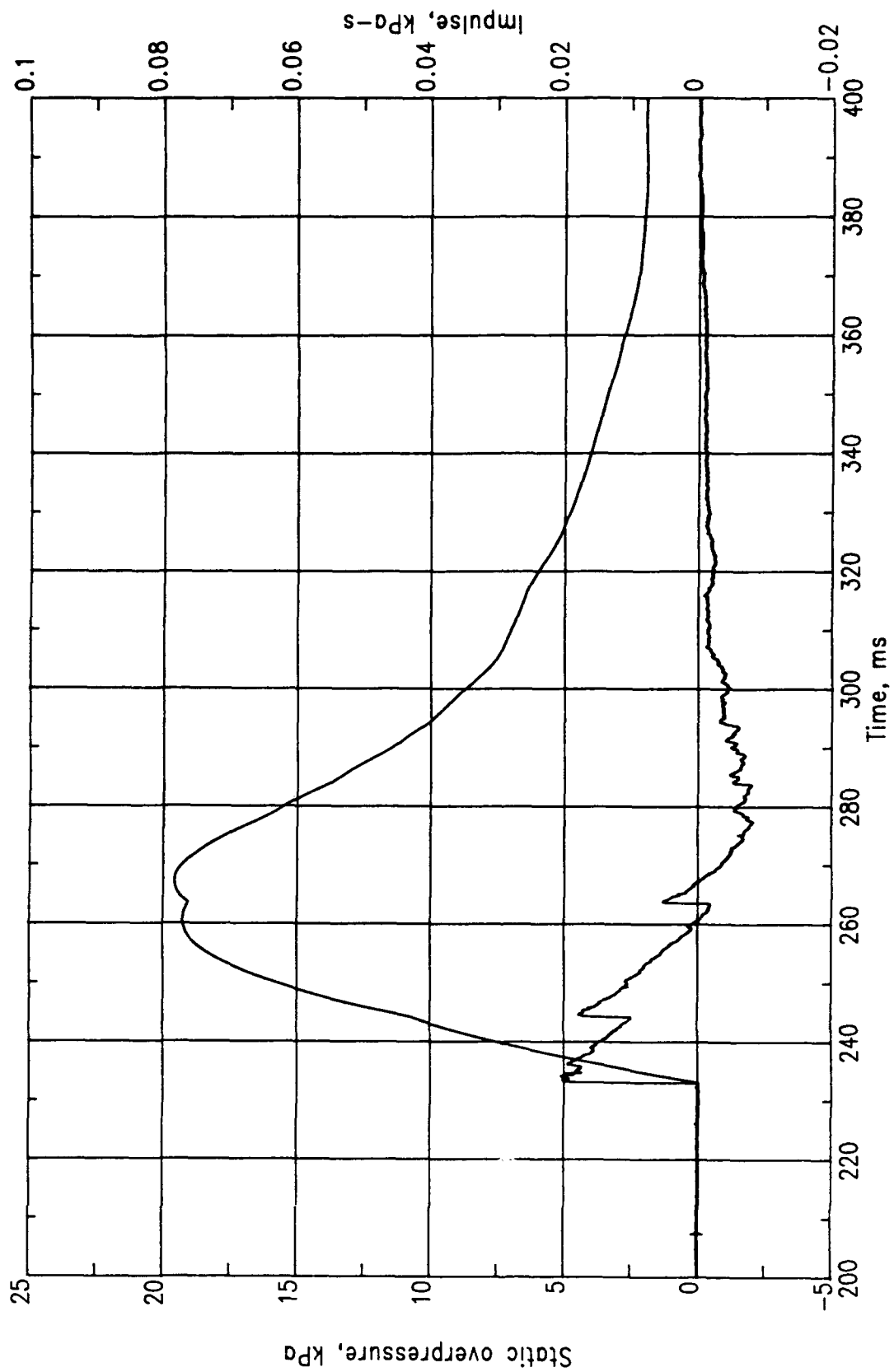
(Additional reading)



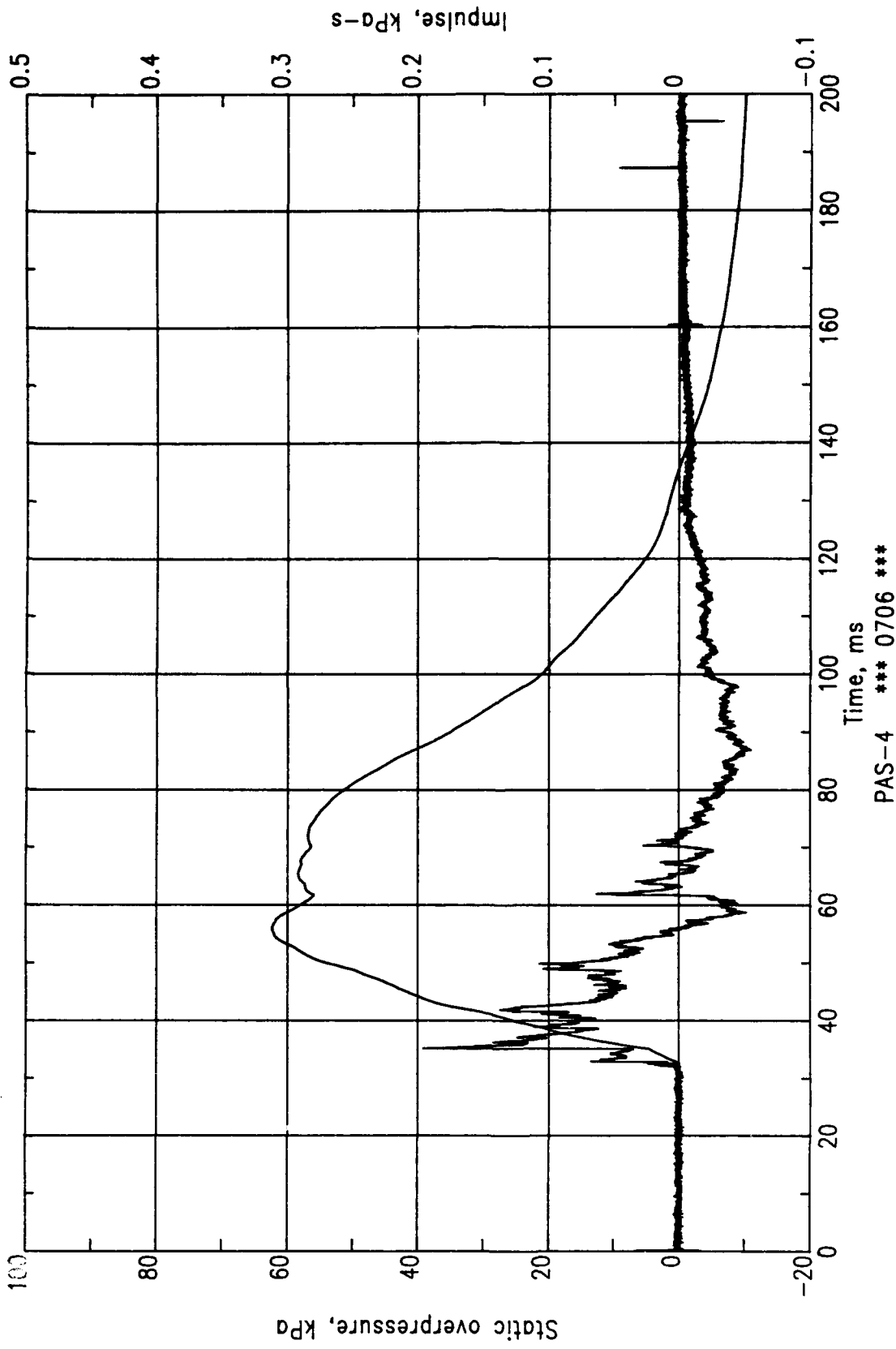


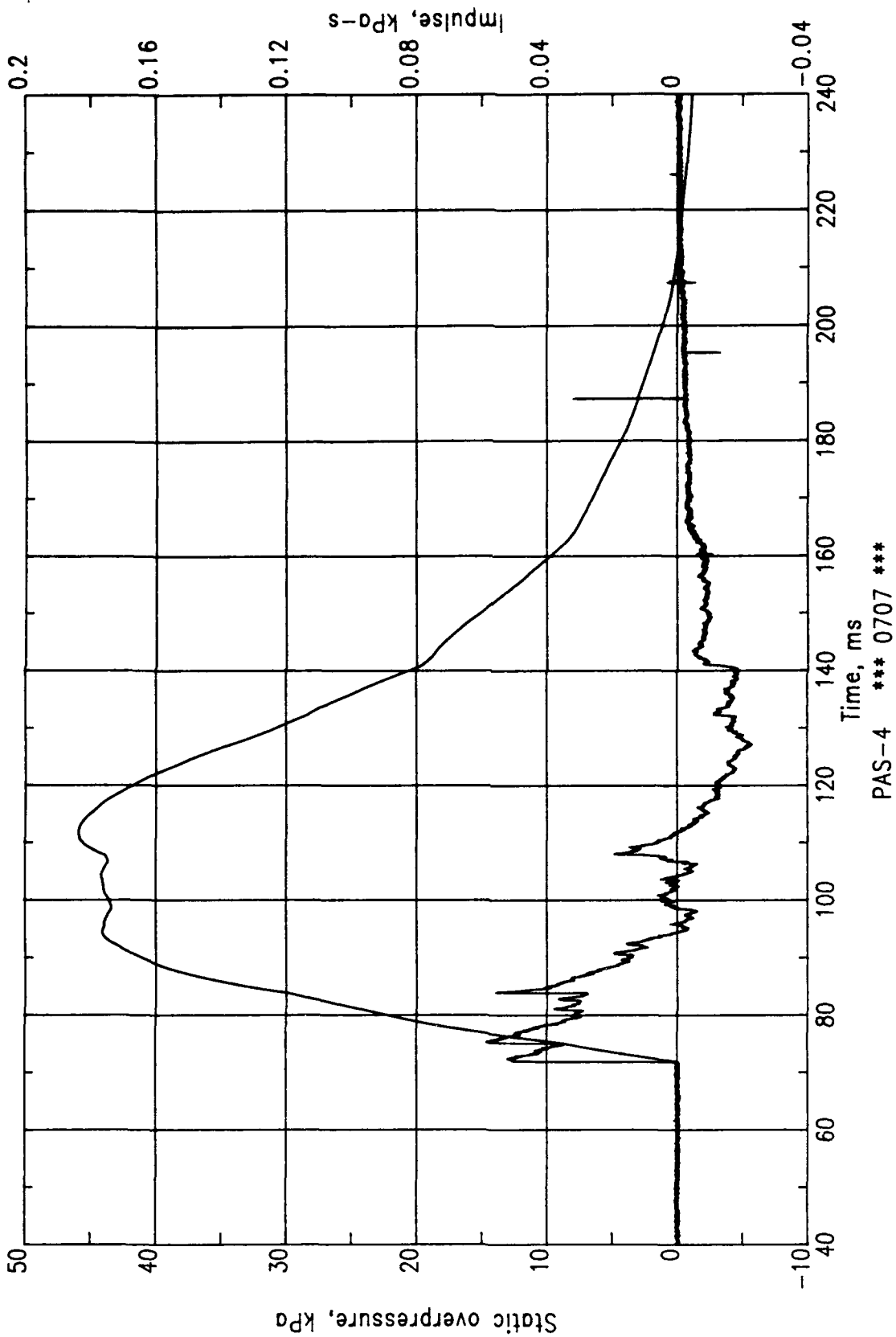


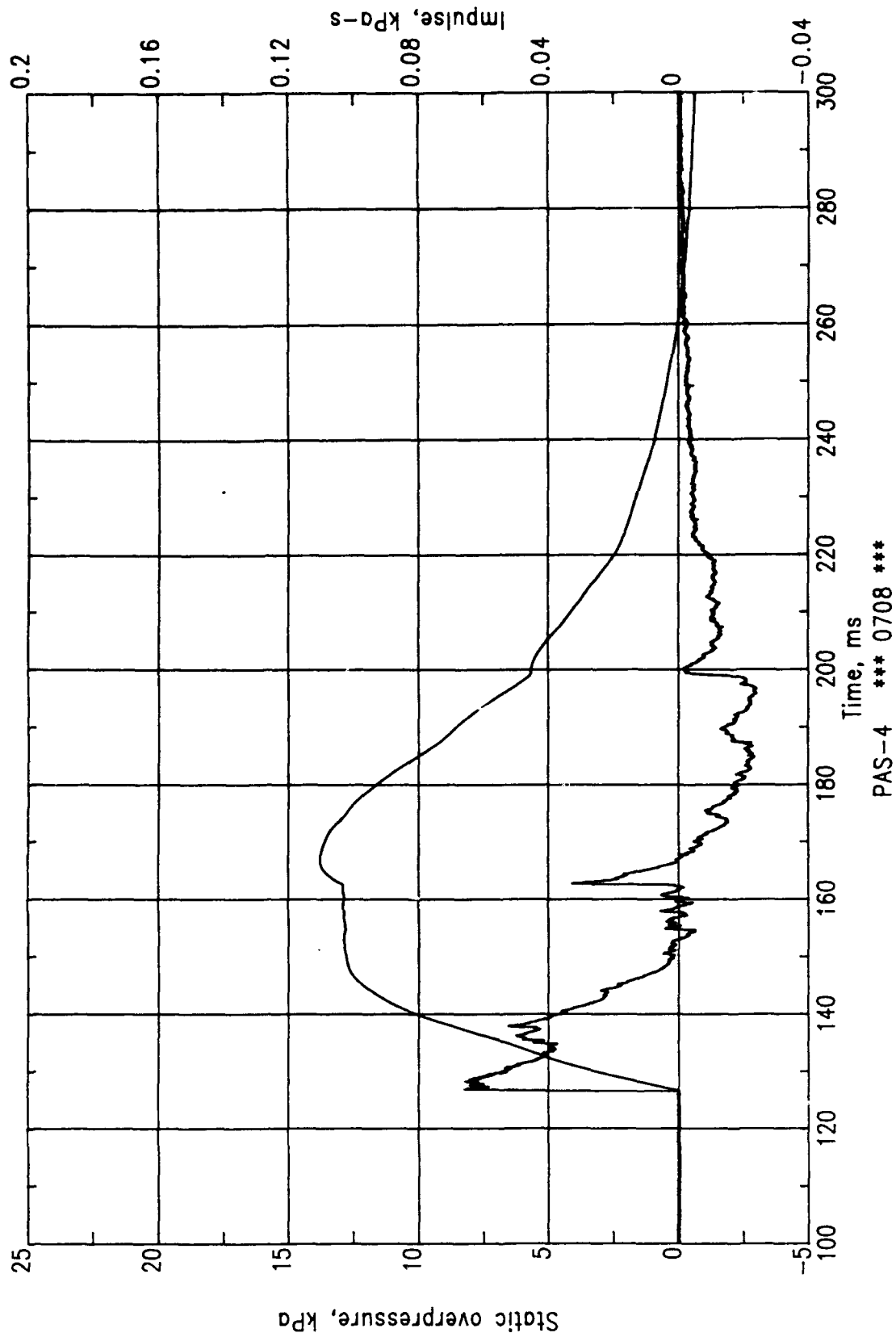


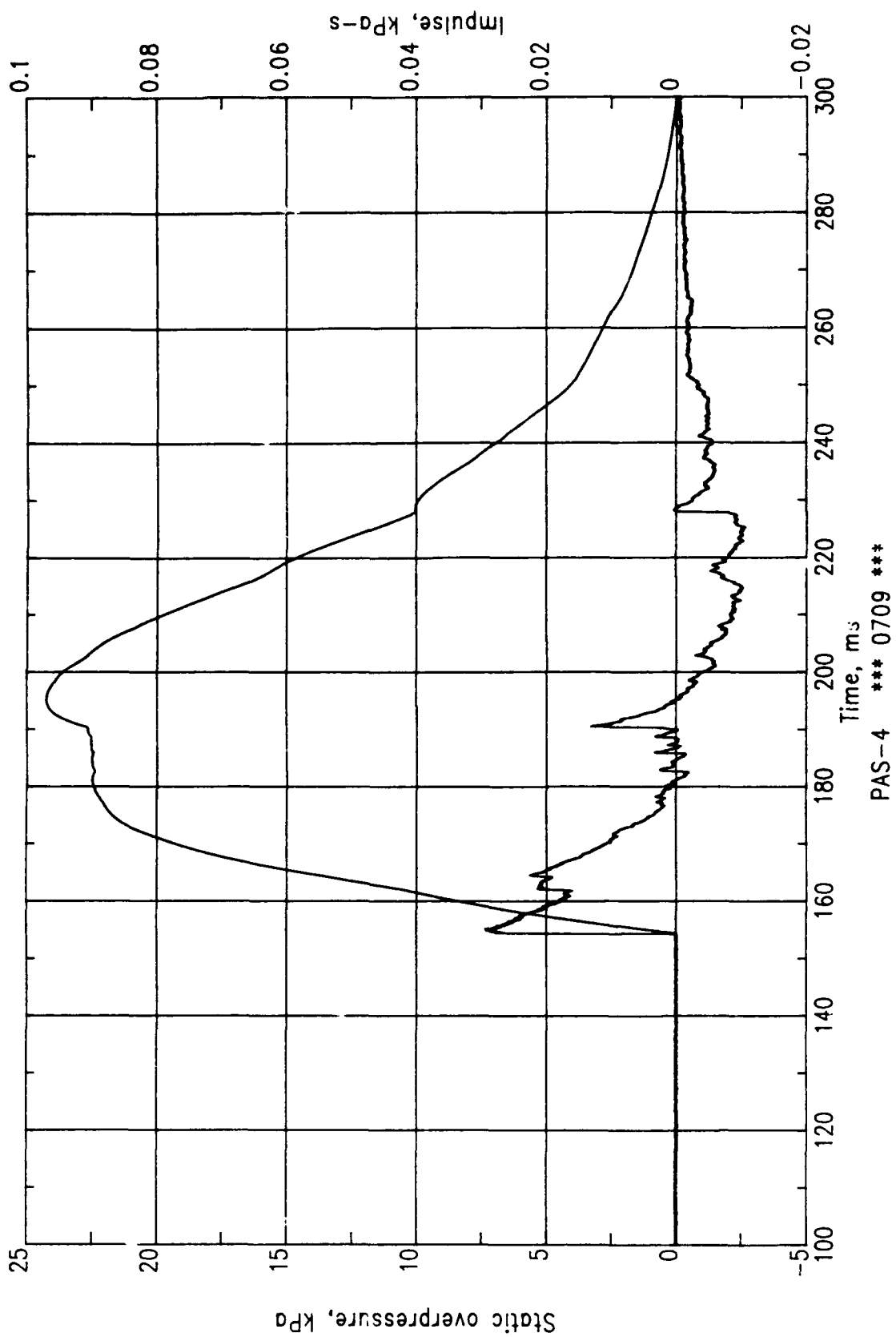


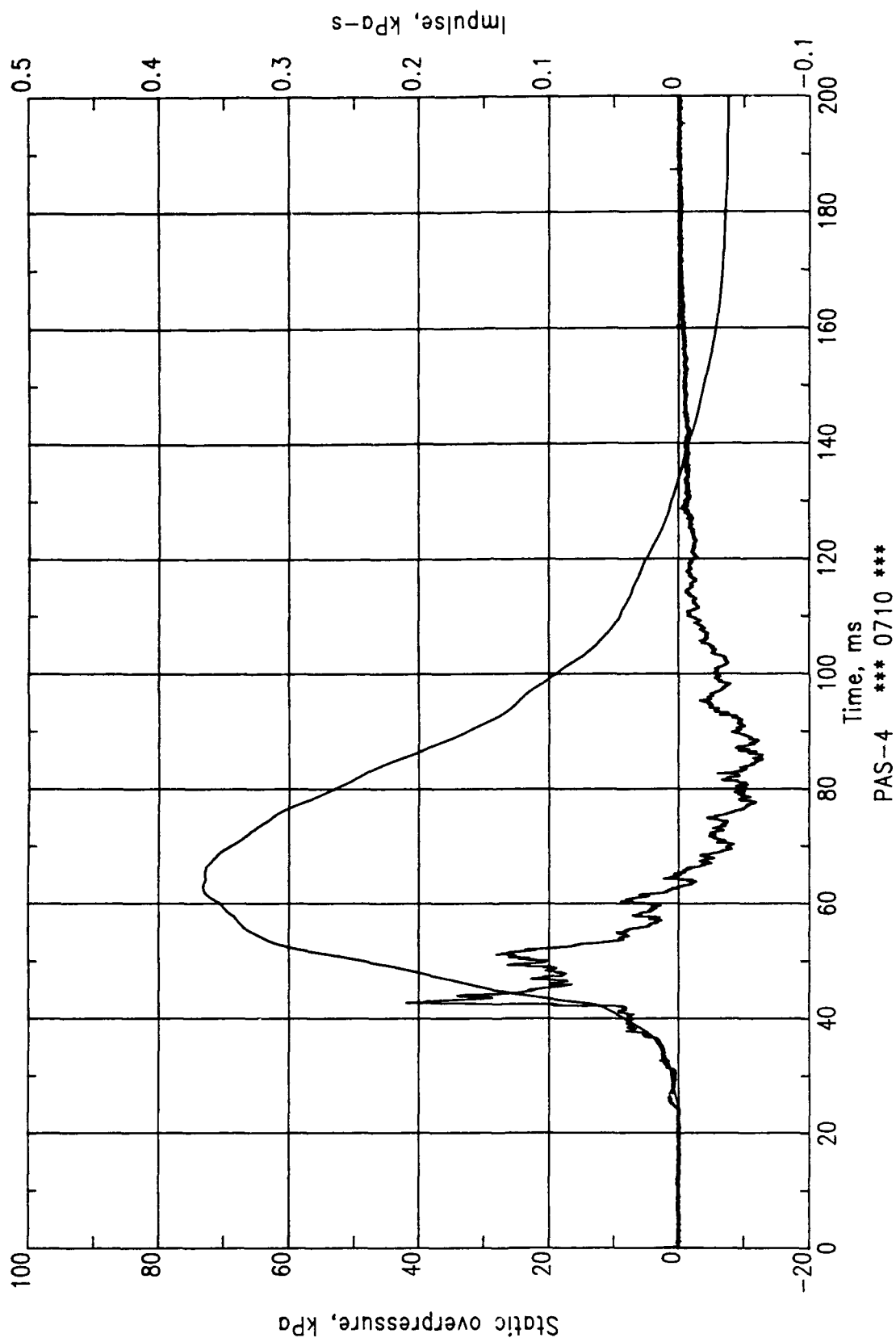
PAS-4 *** 0705 ***

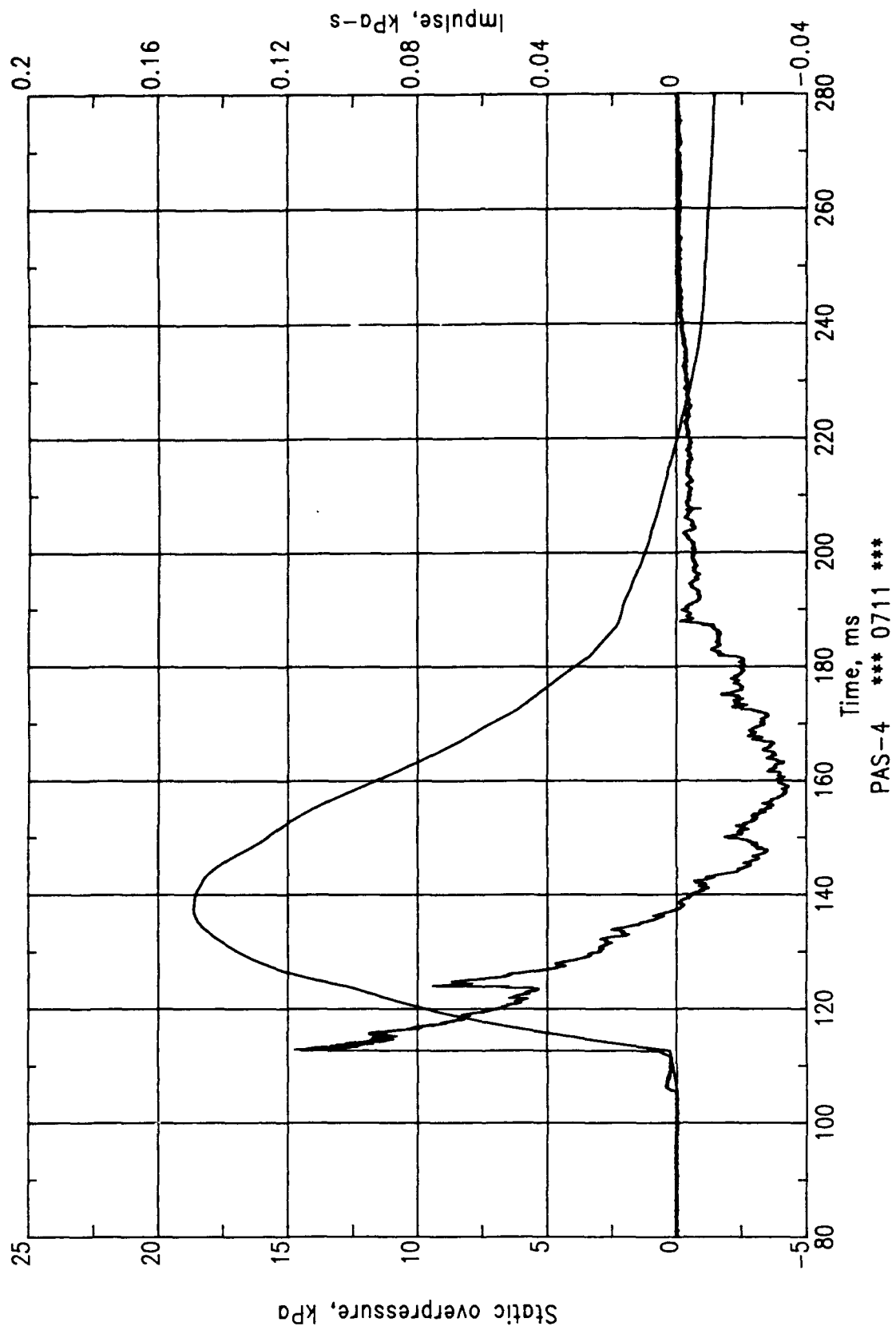


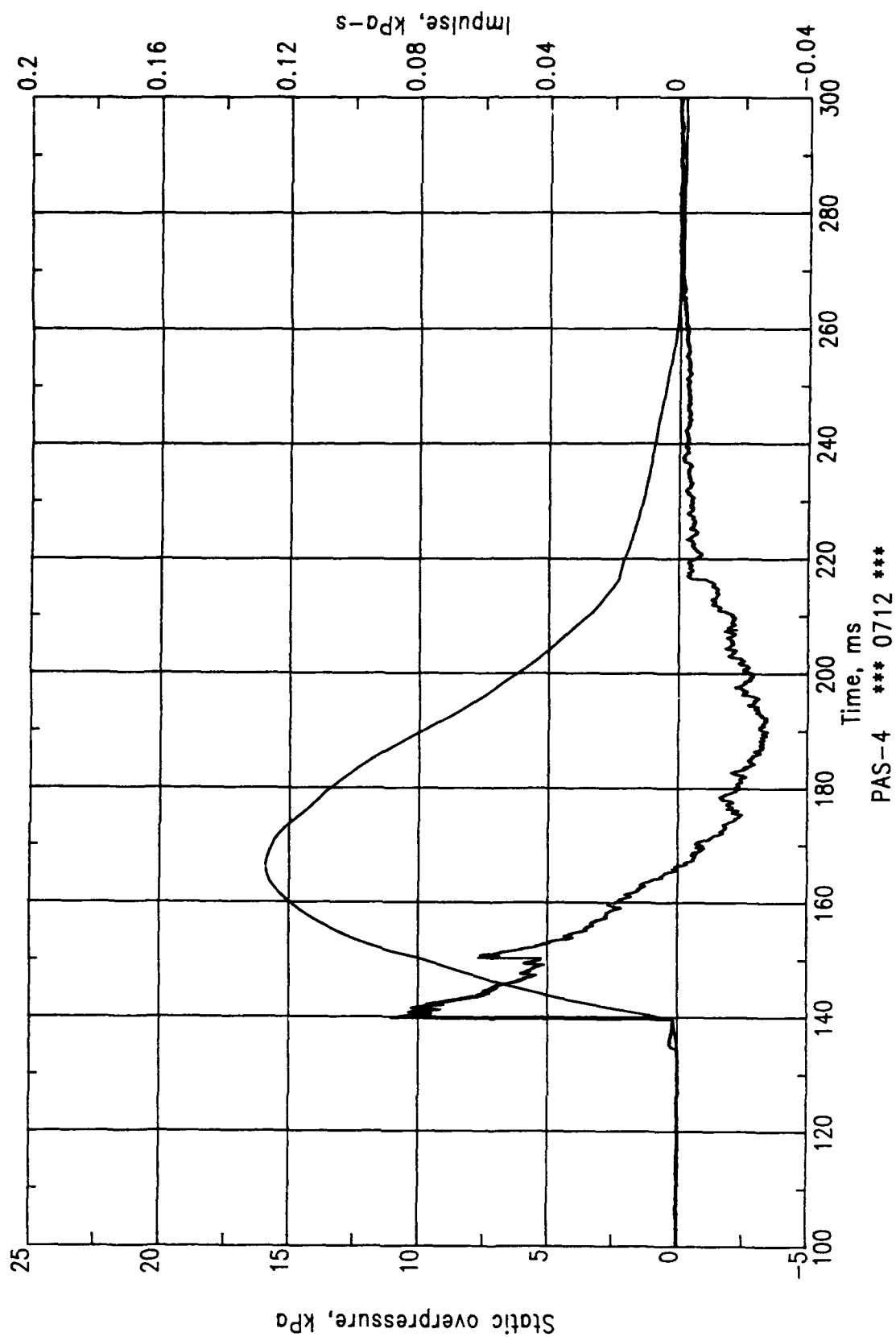


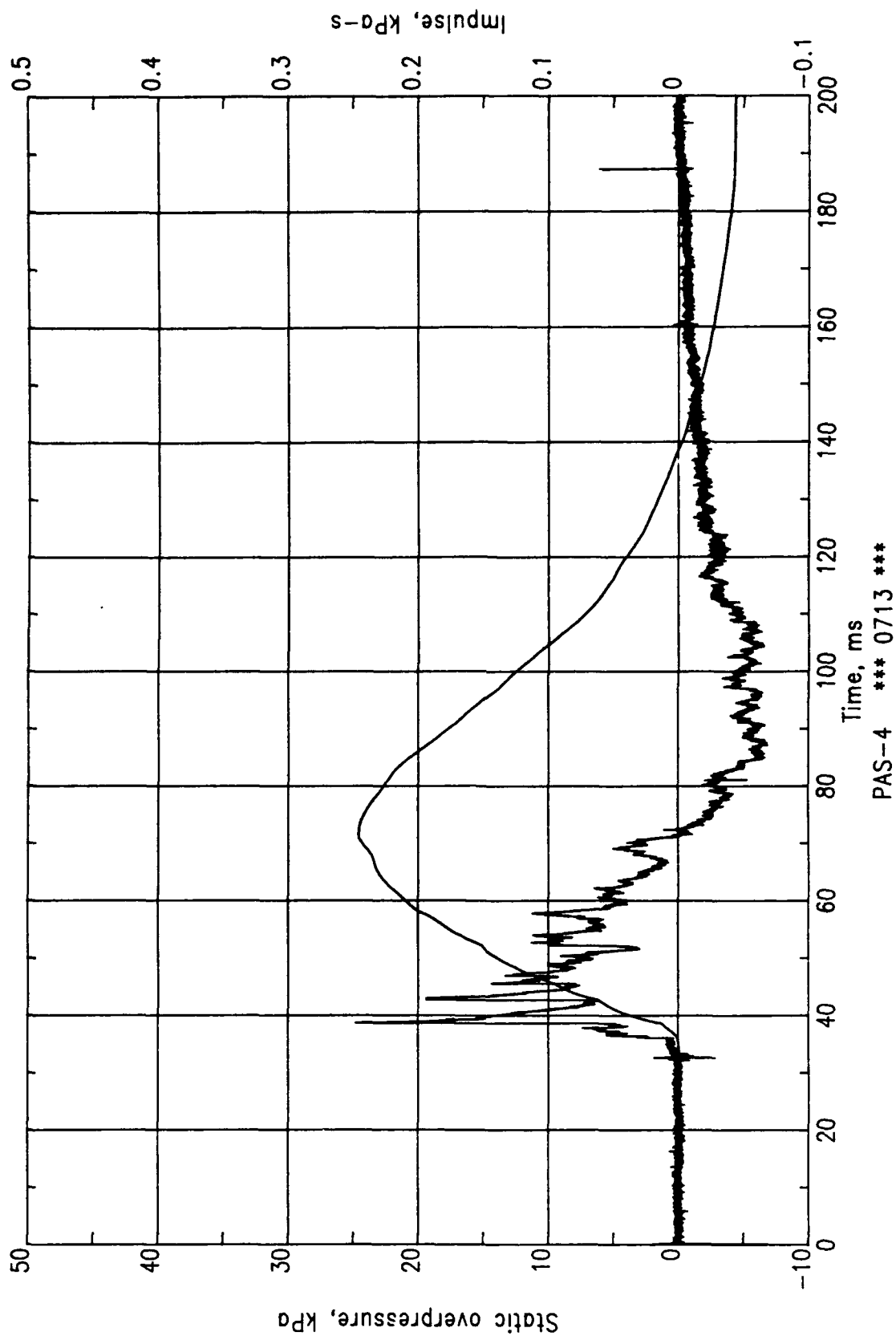


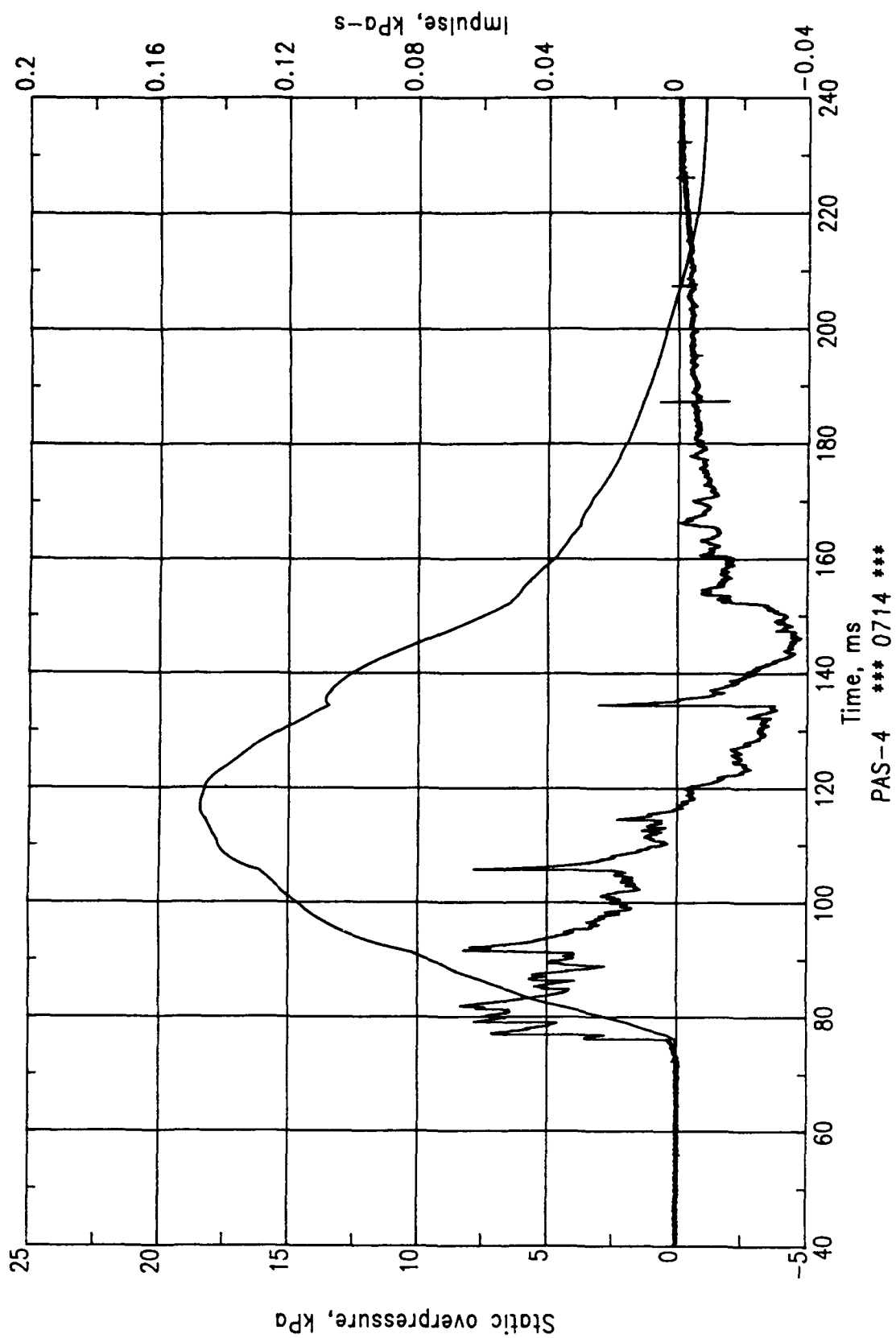




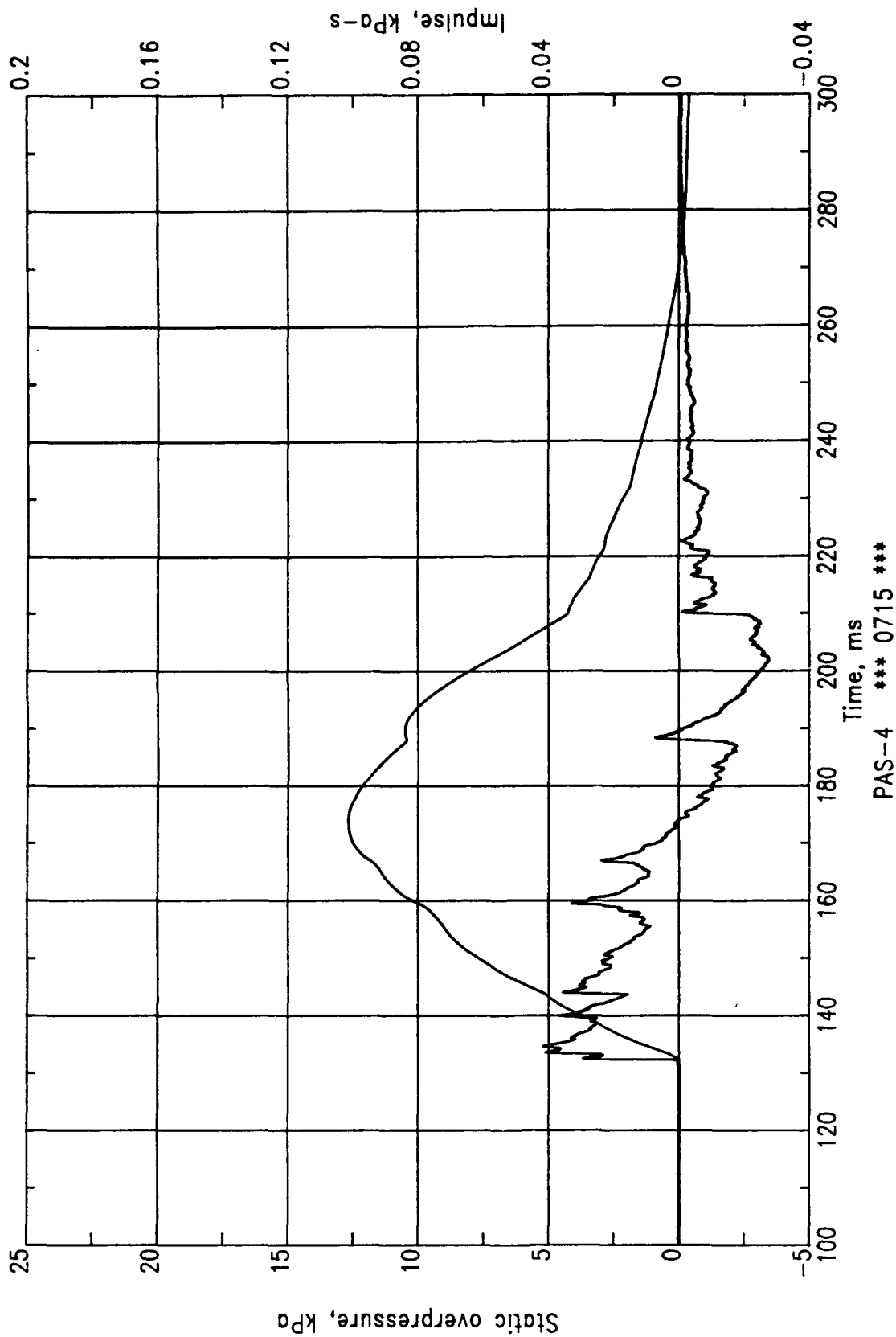


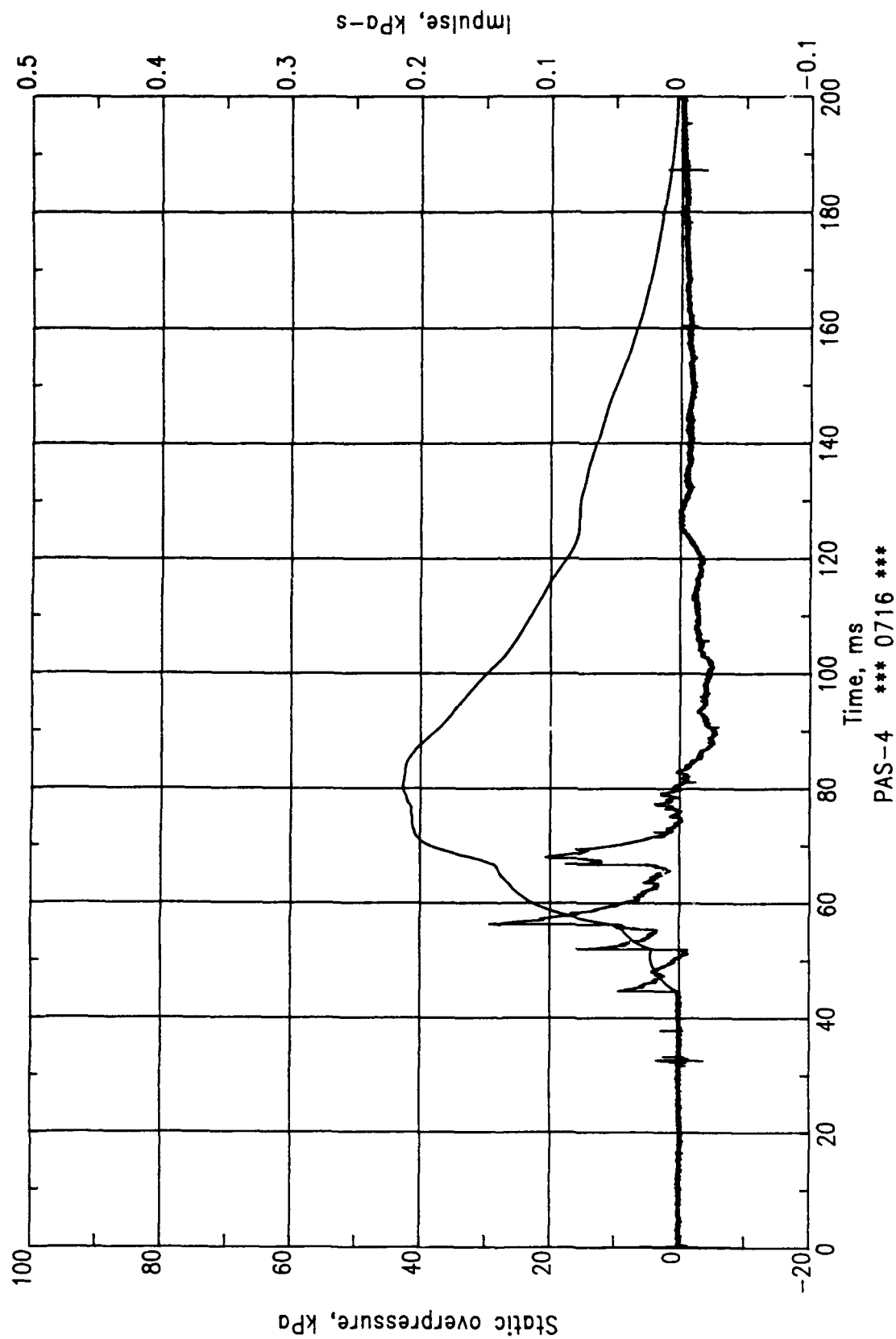


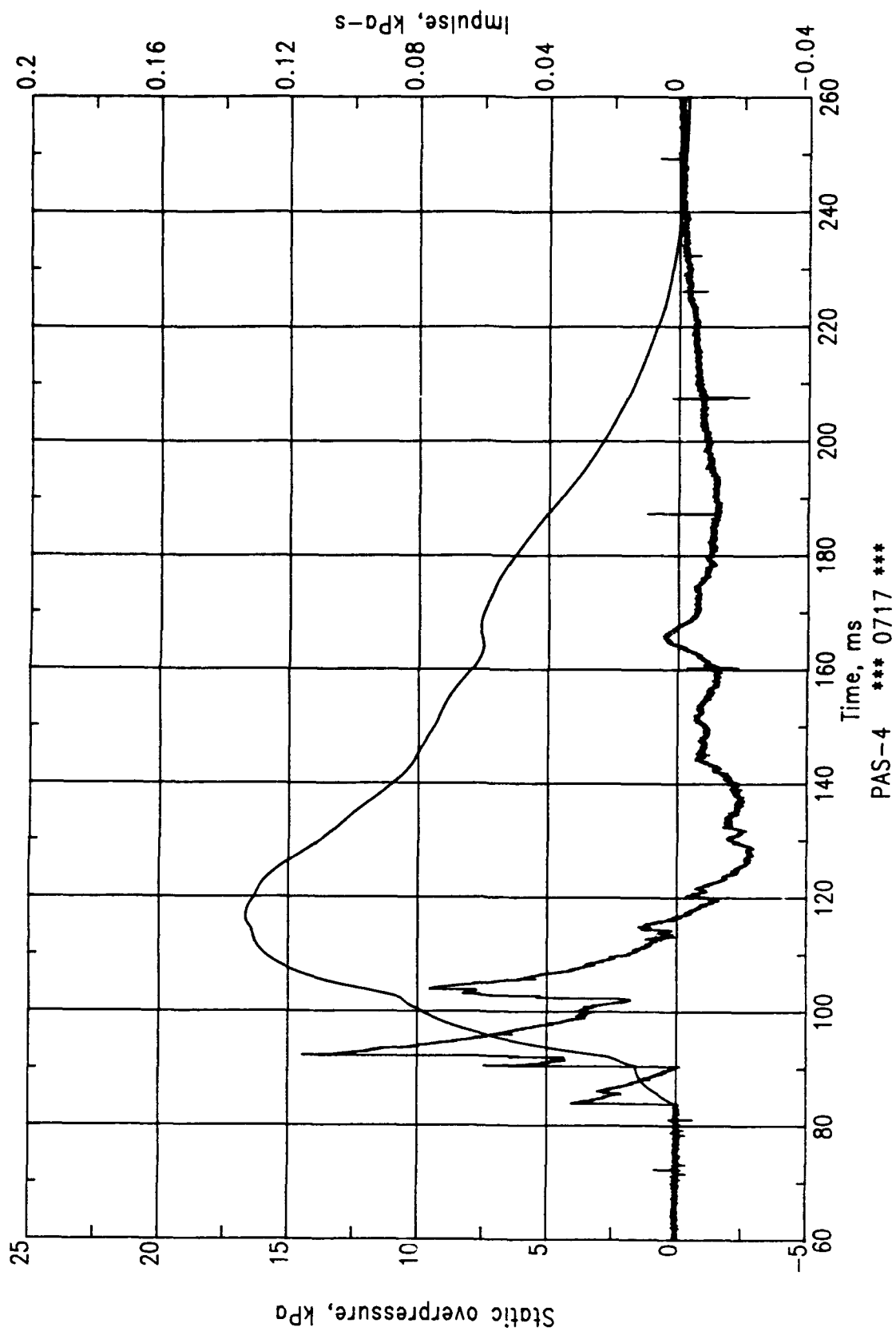


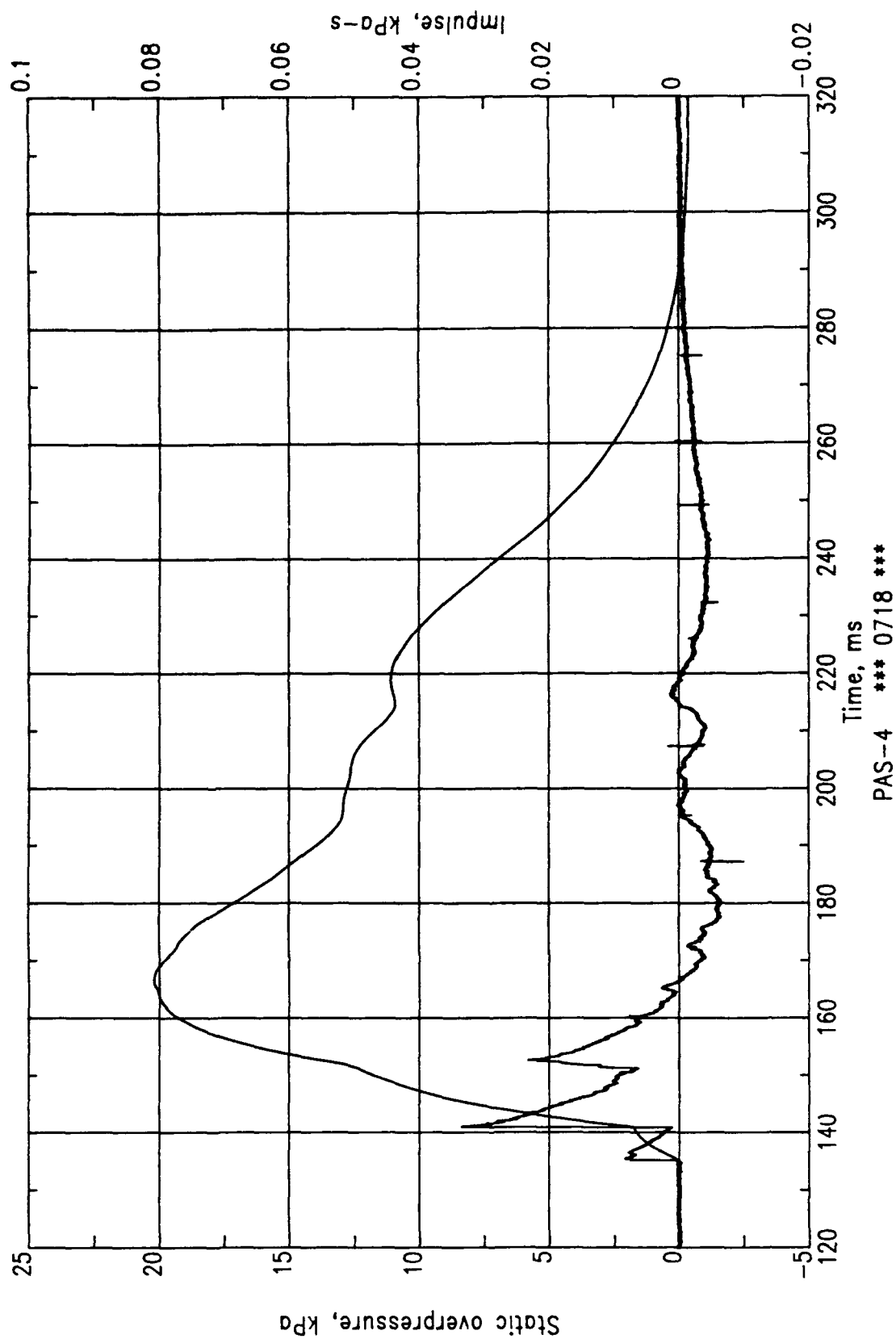


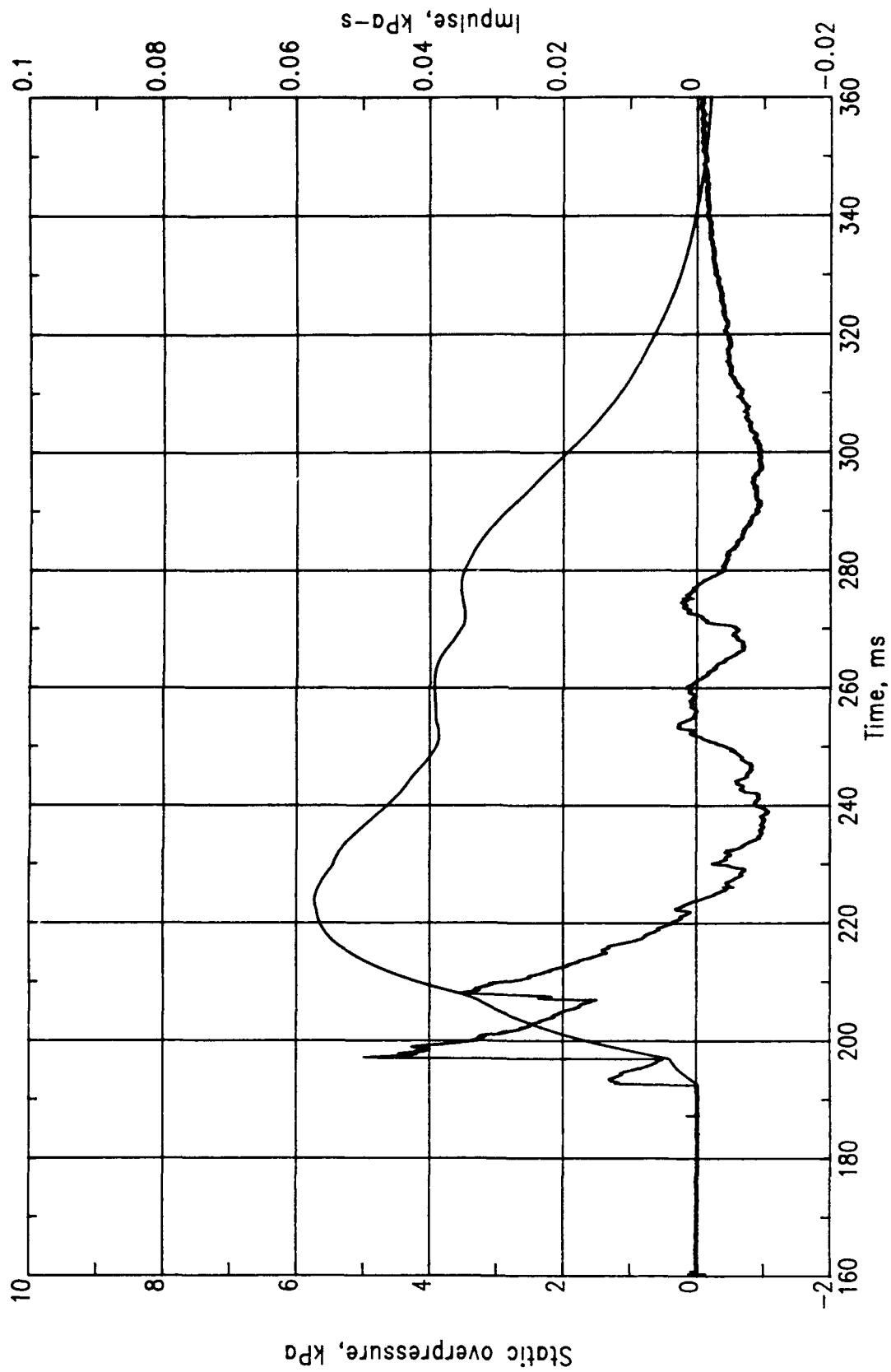
PAS-4 *** 0714 ***

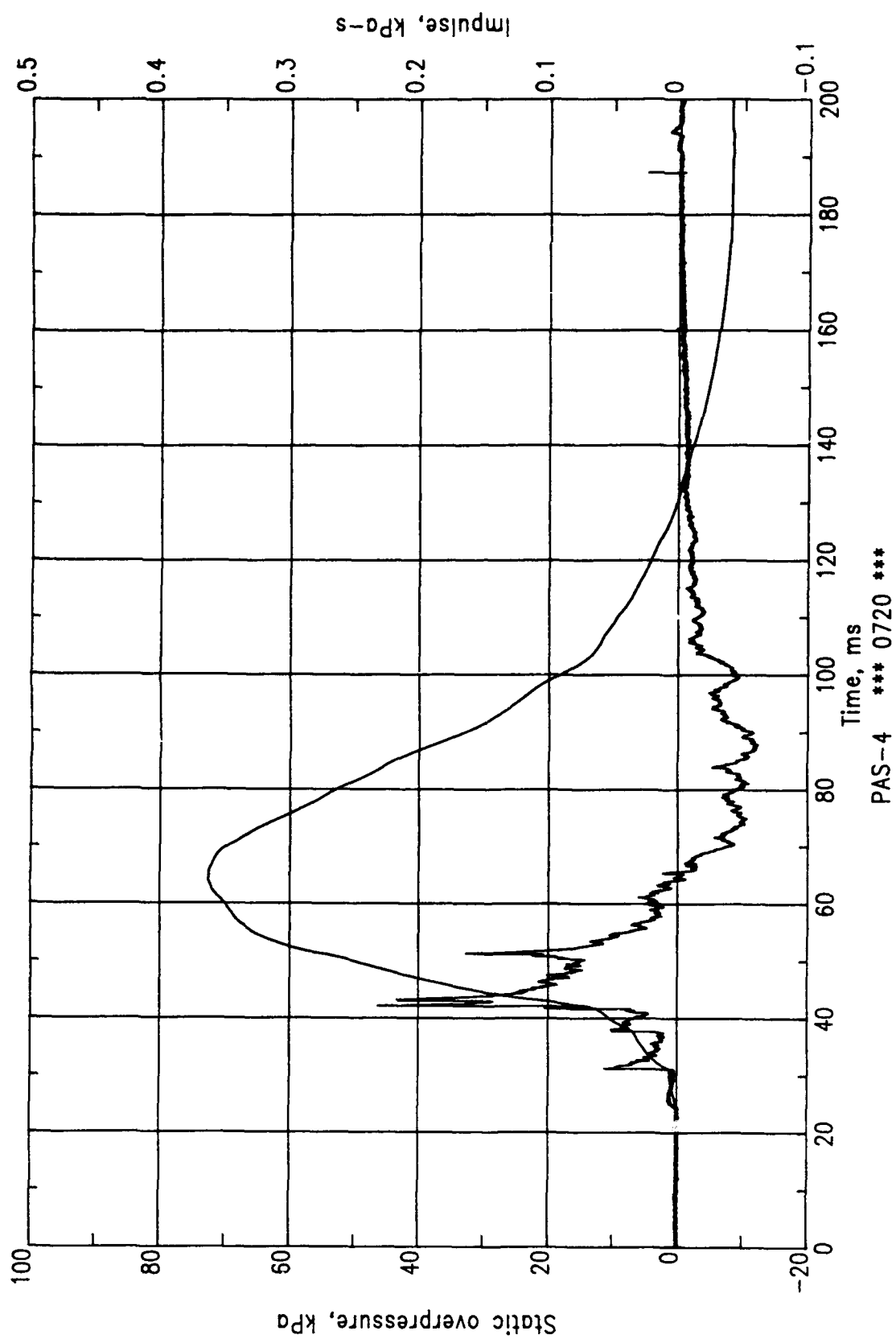


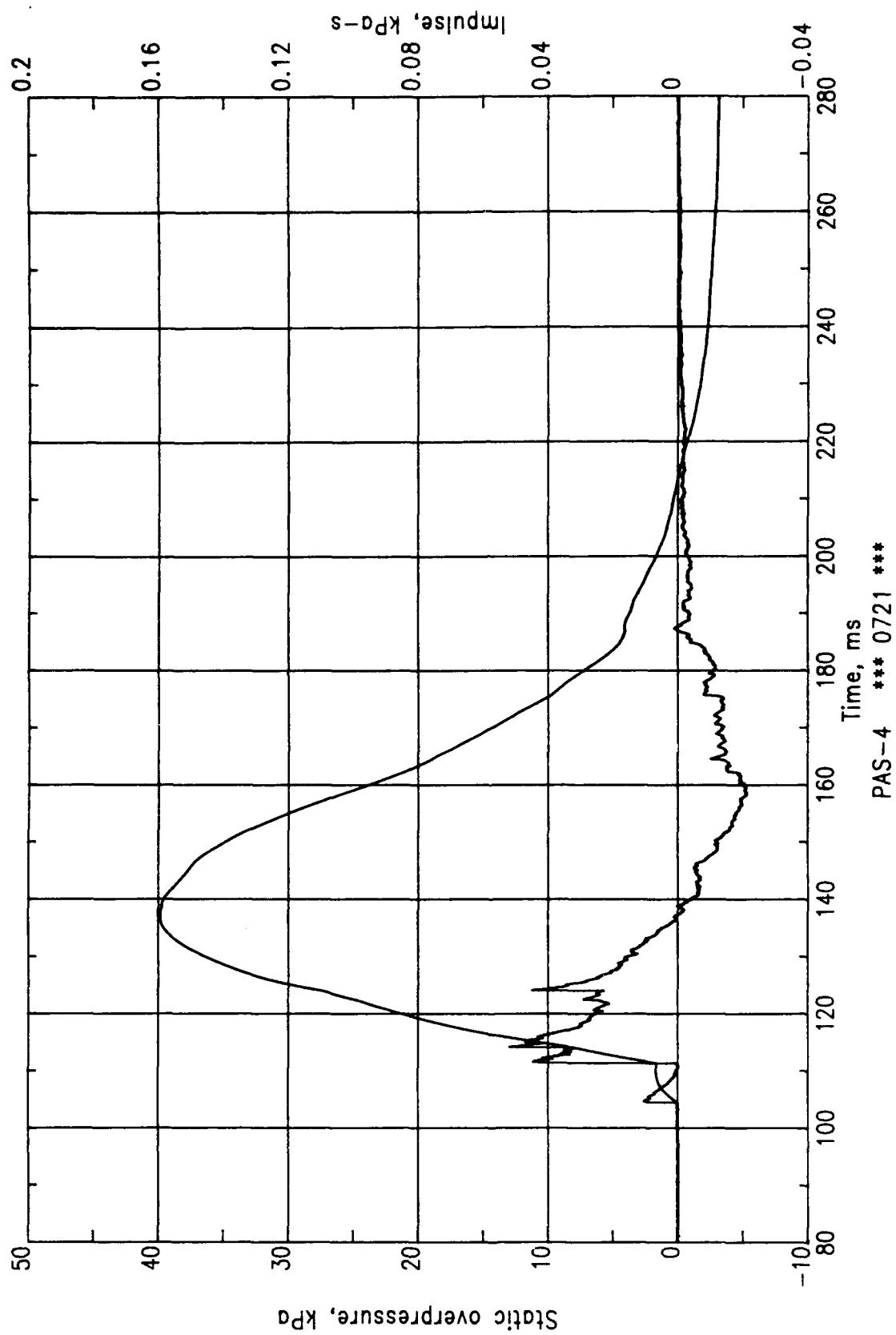




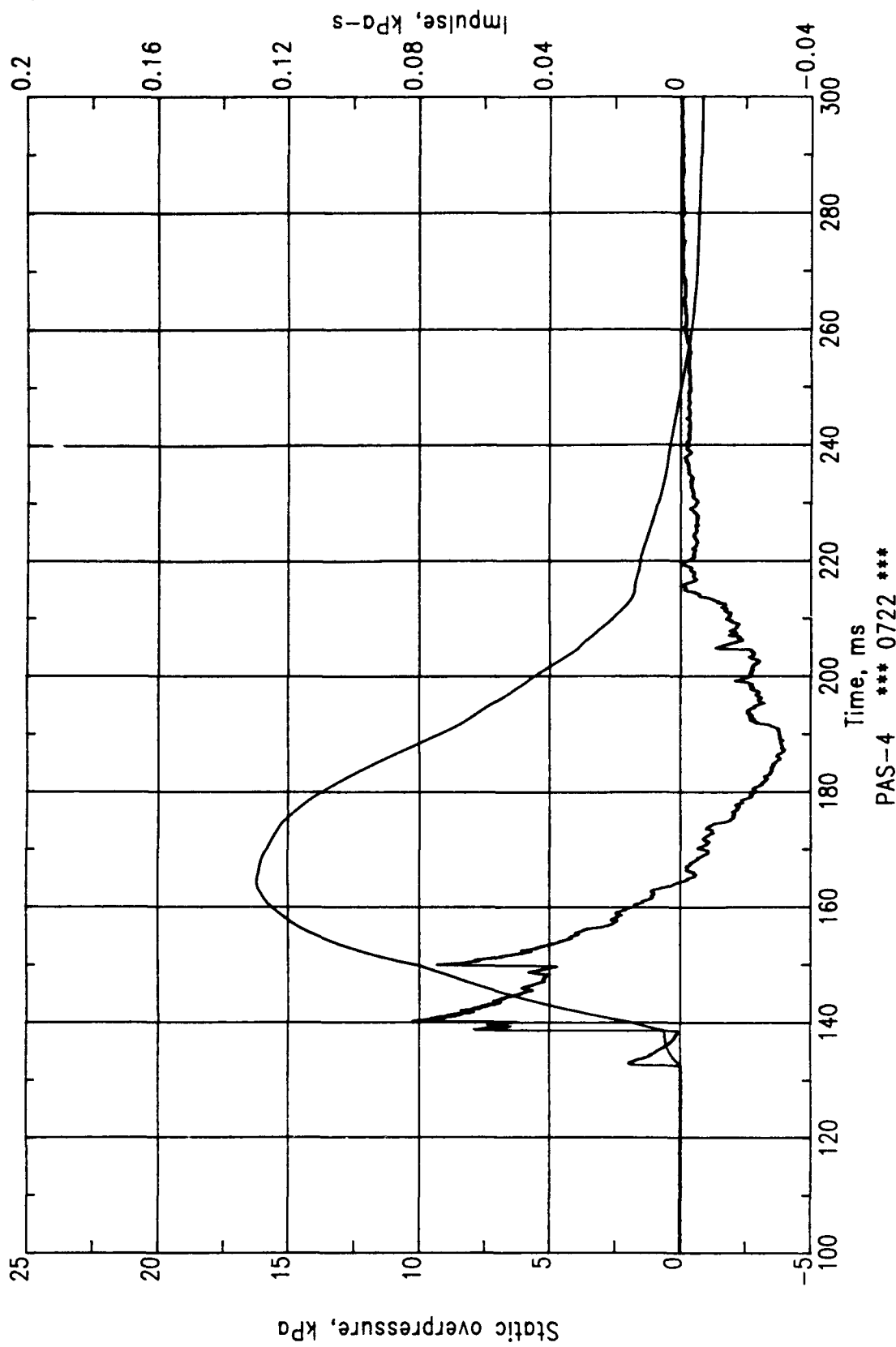


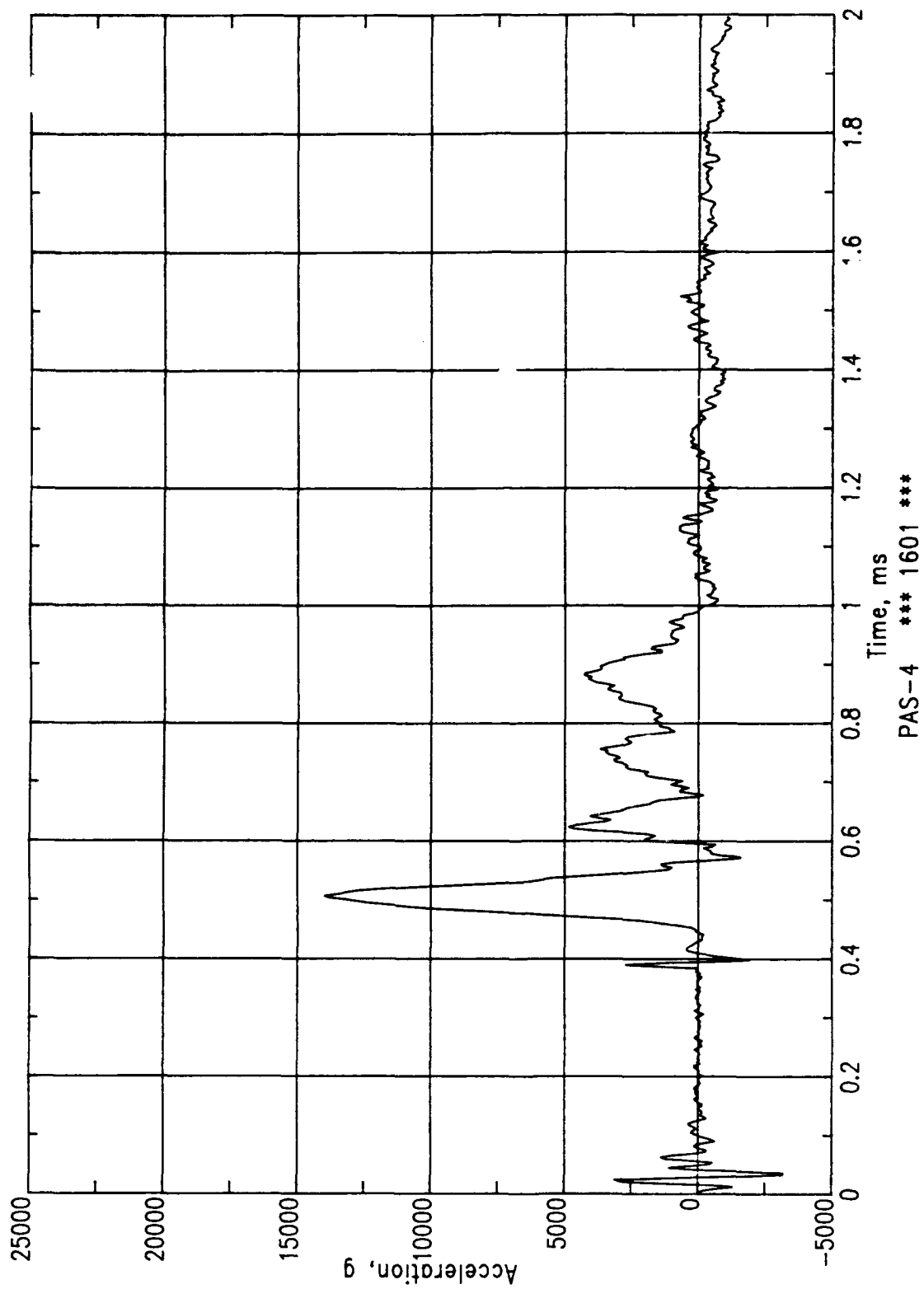


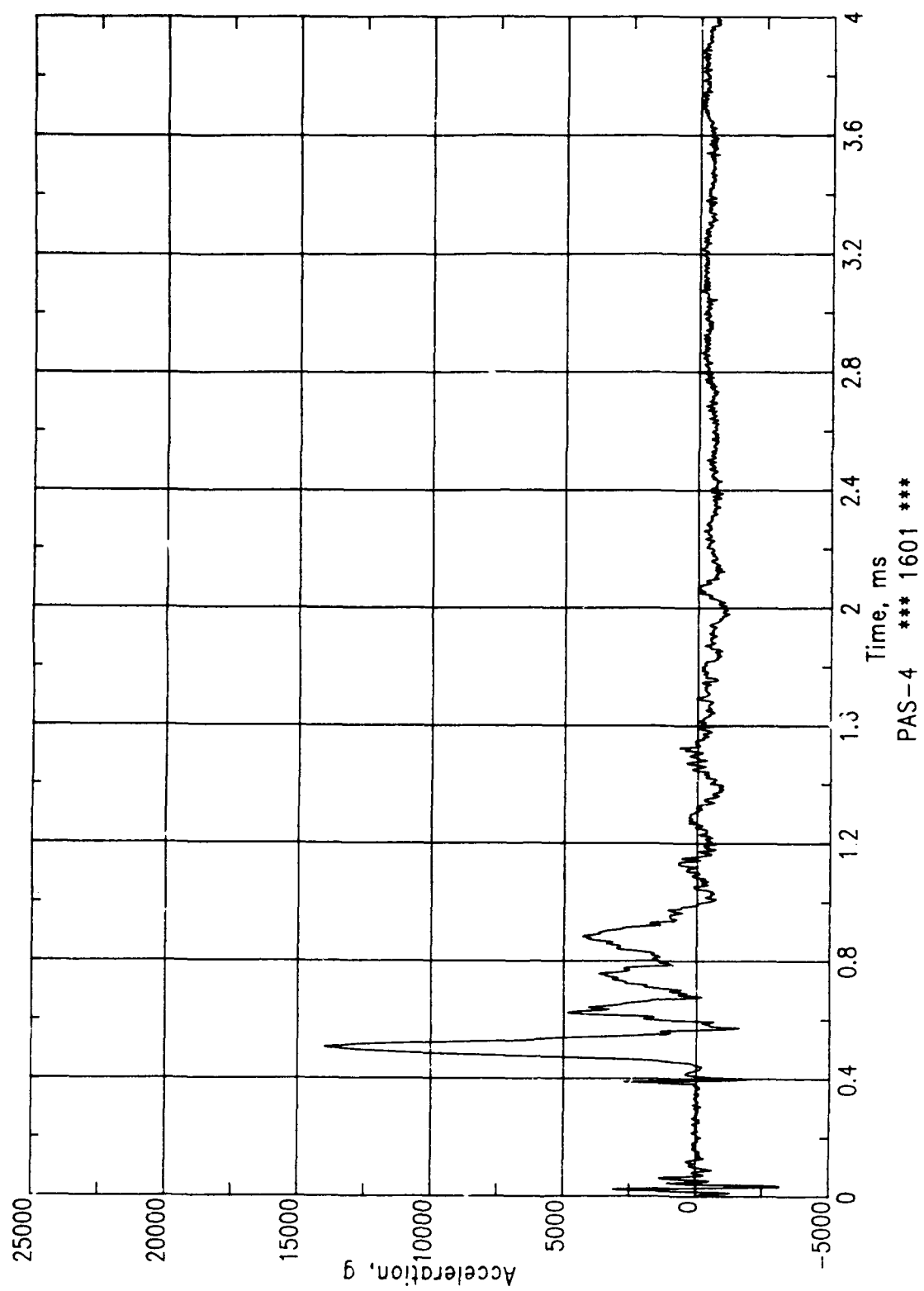


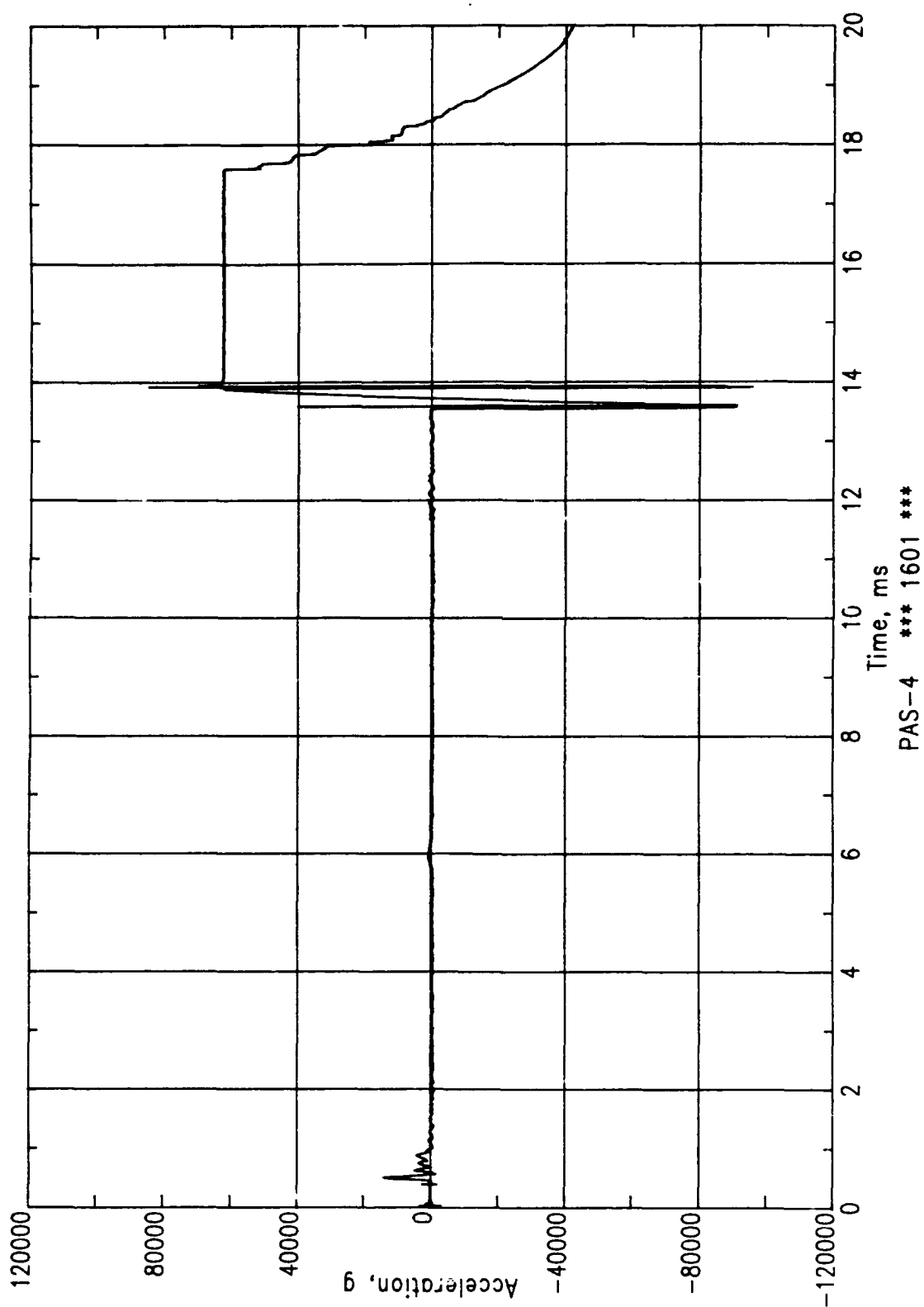


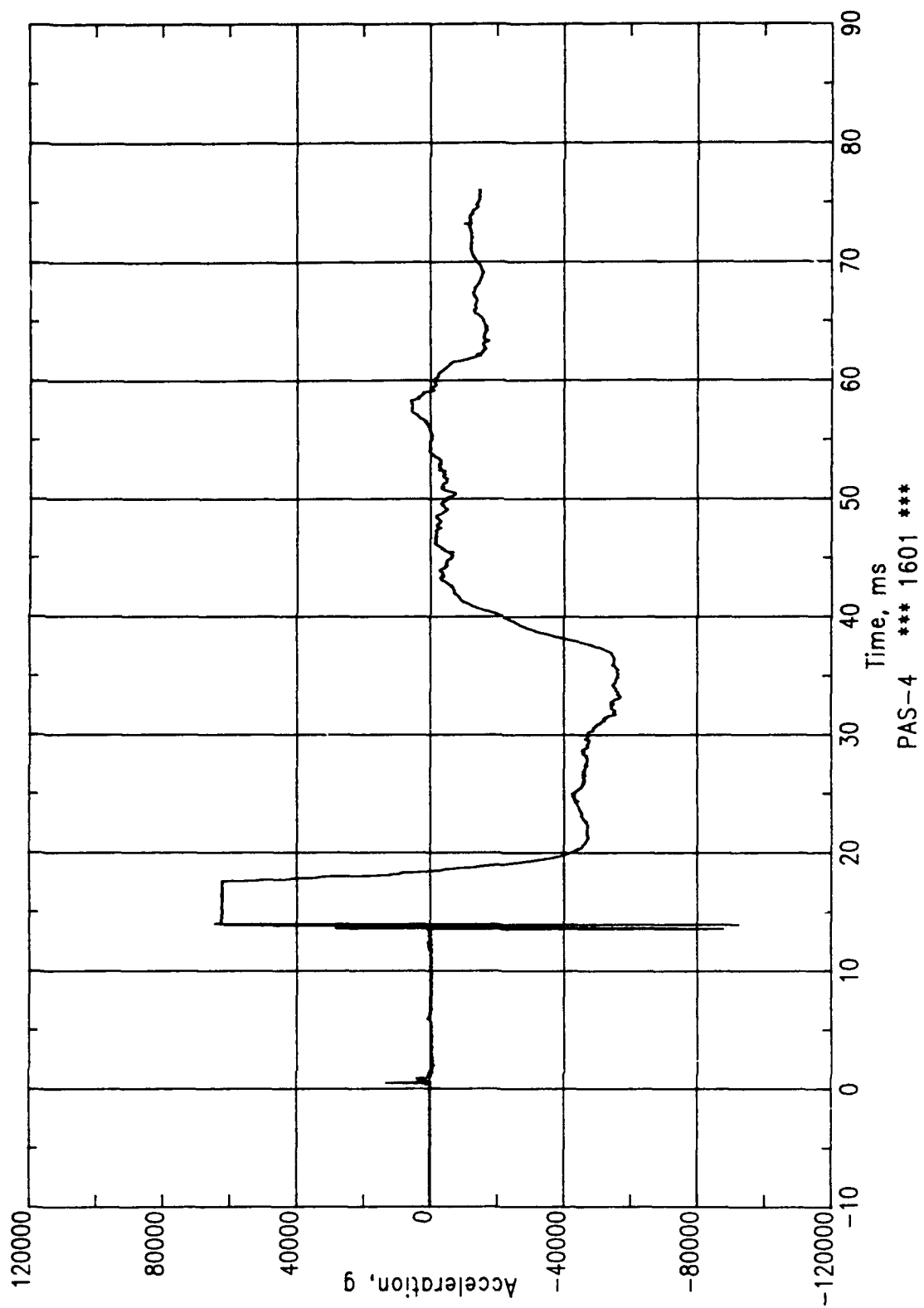
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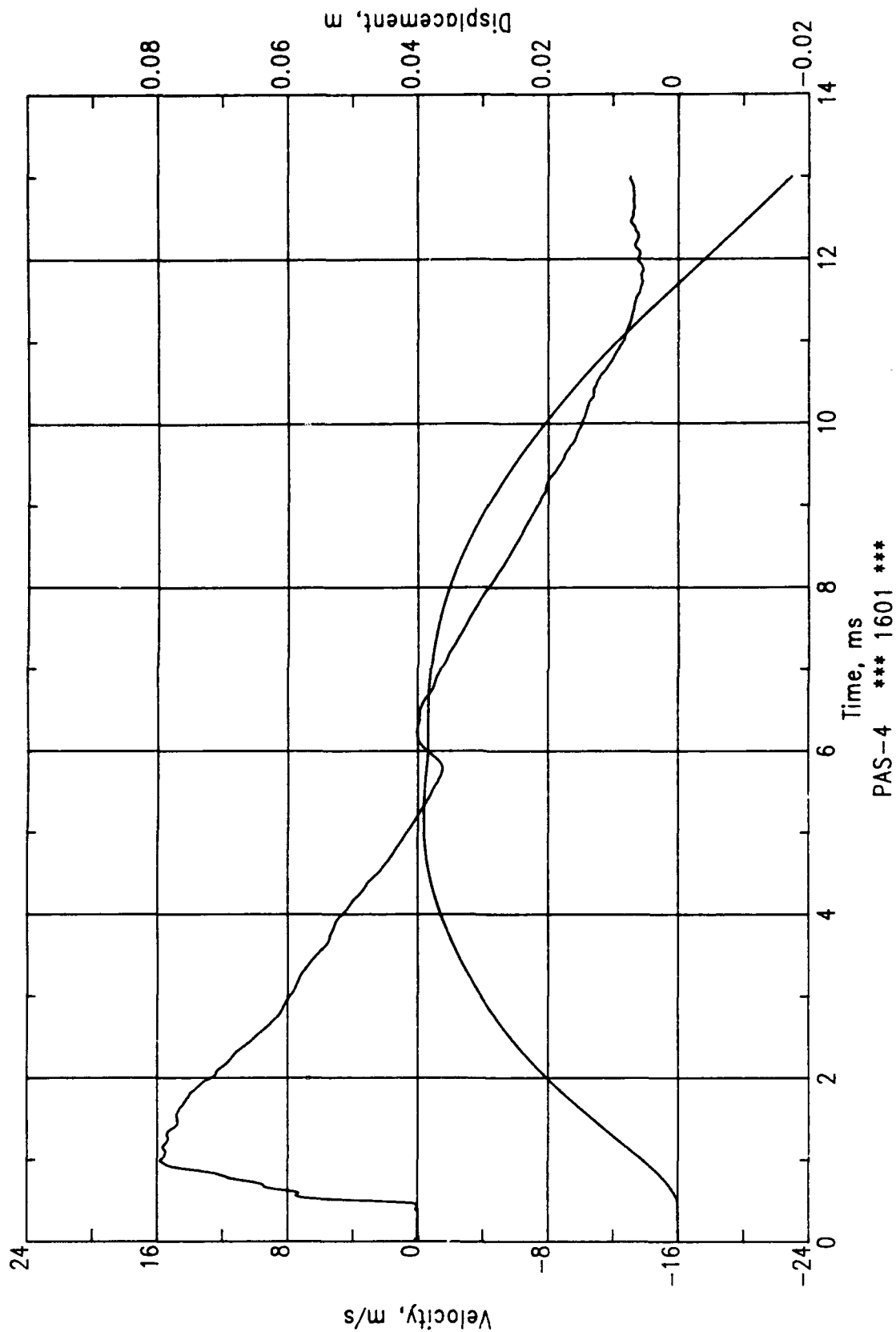


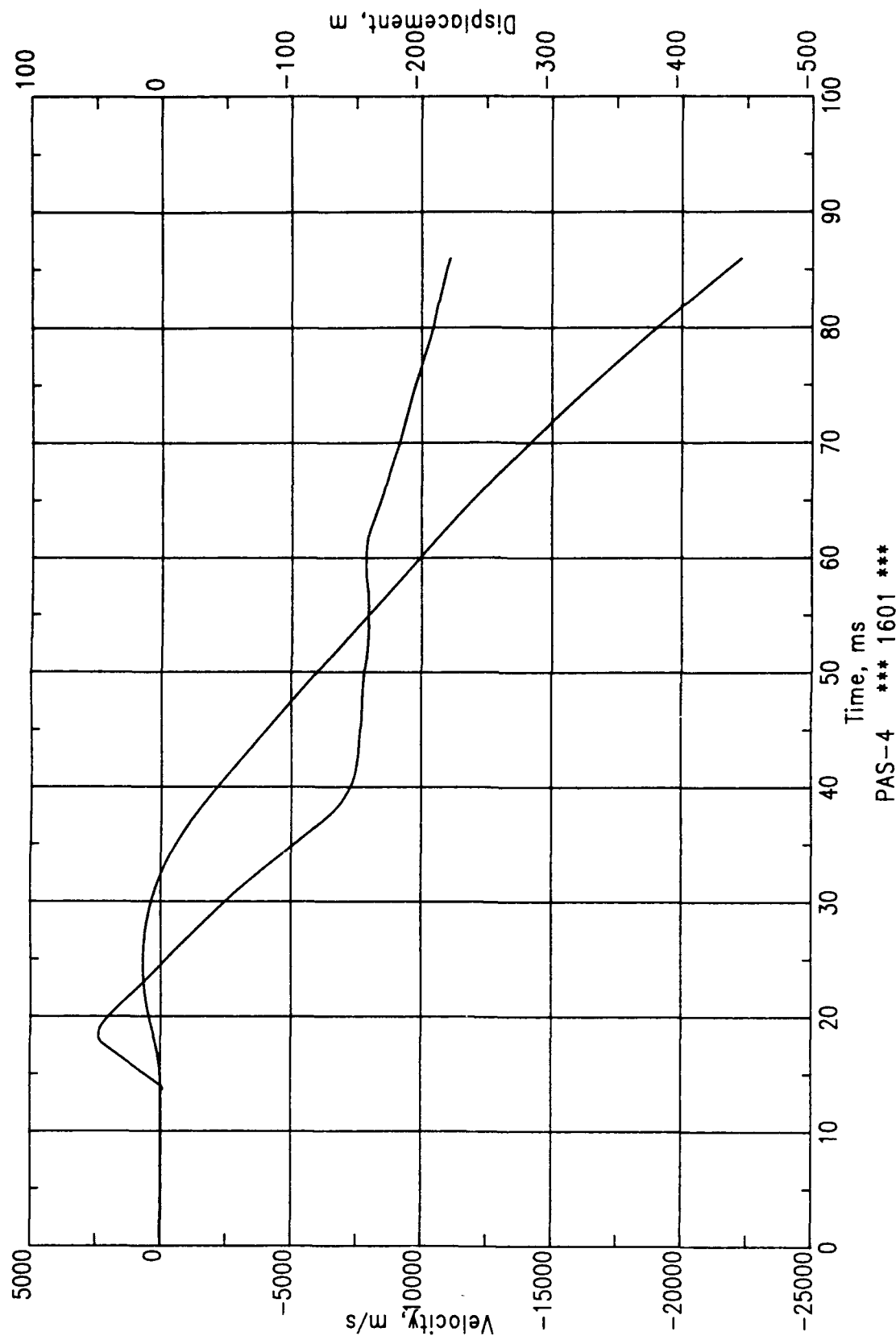


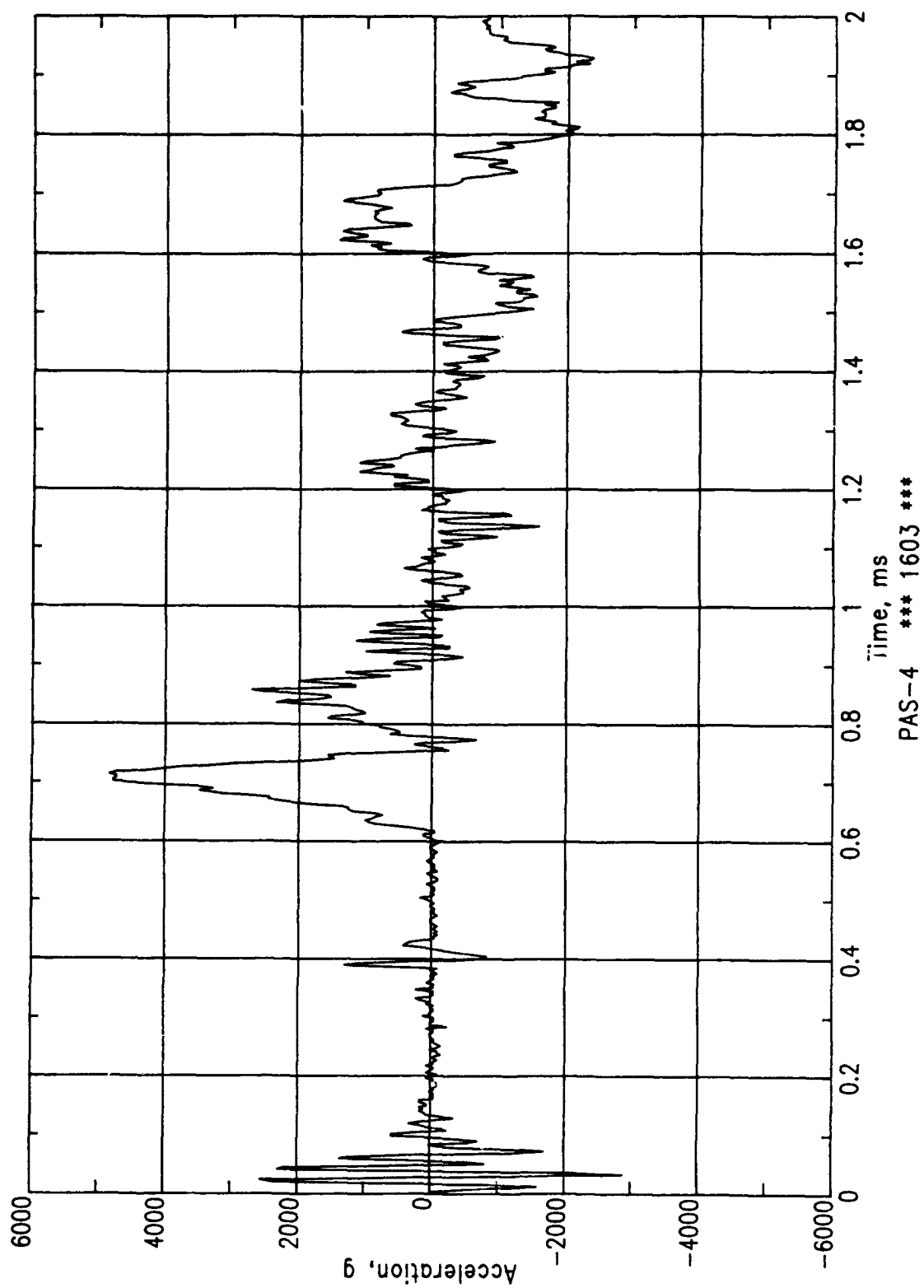


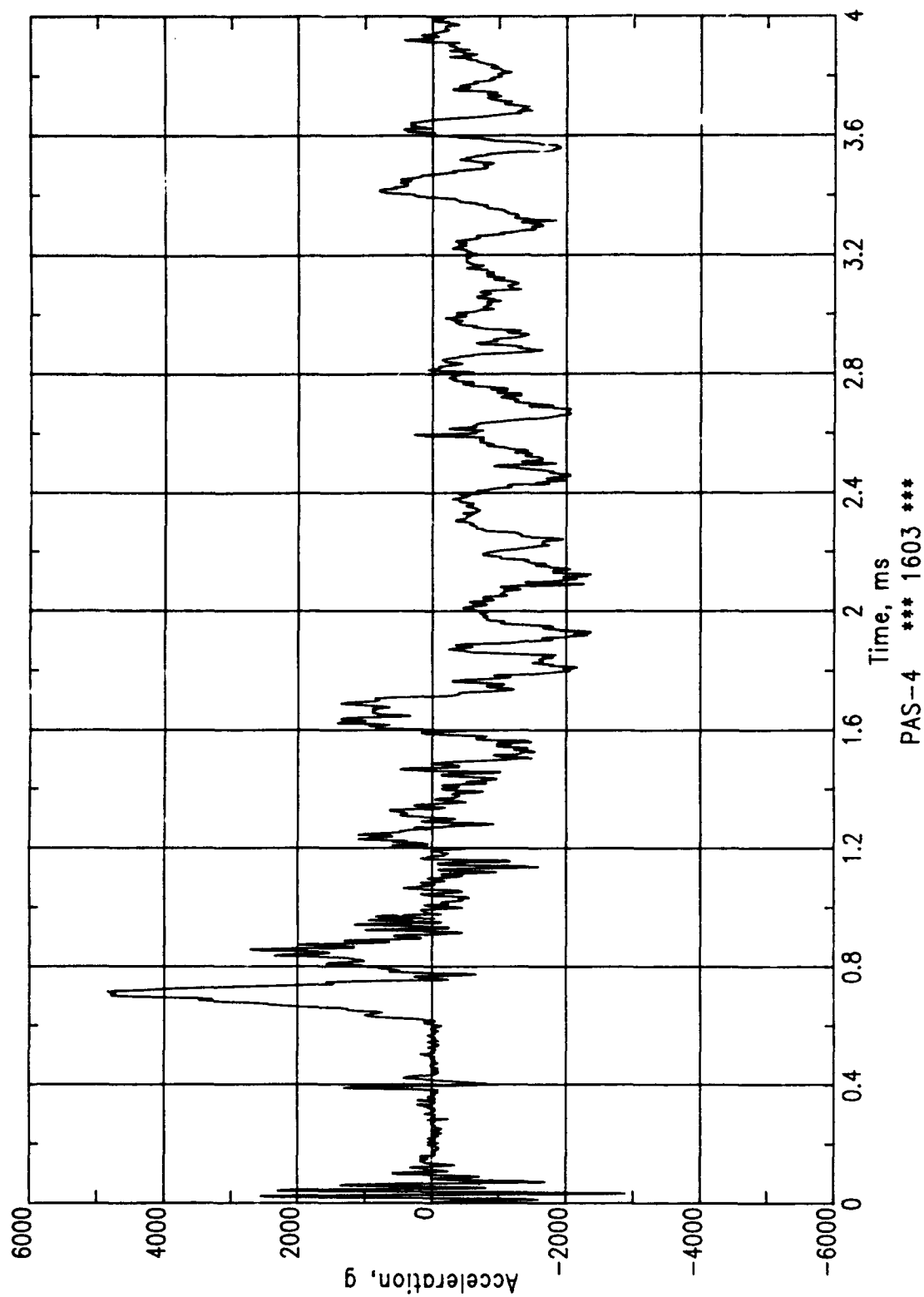


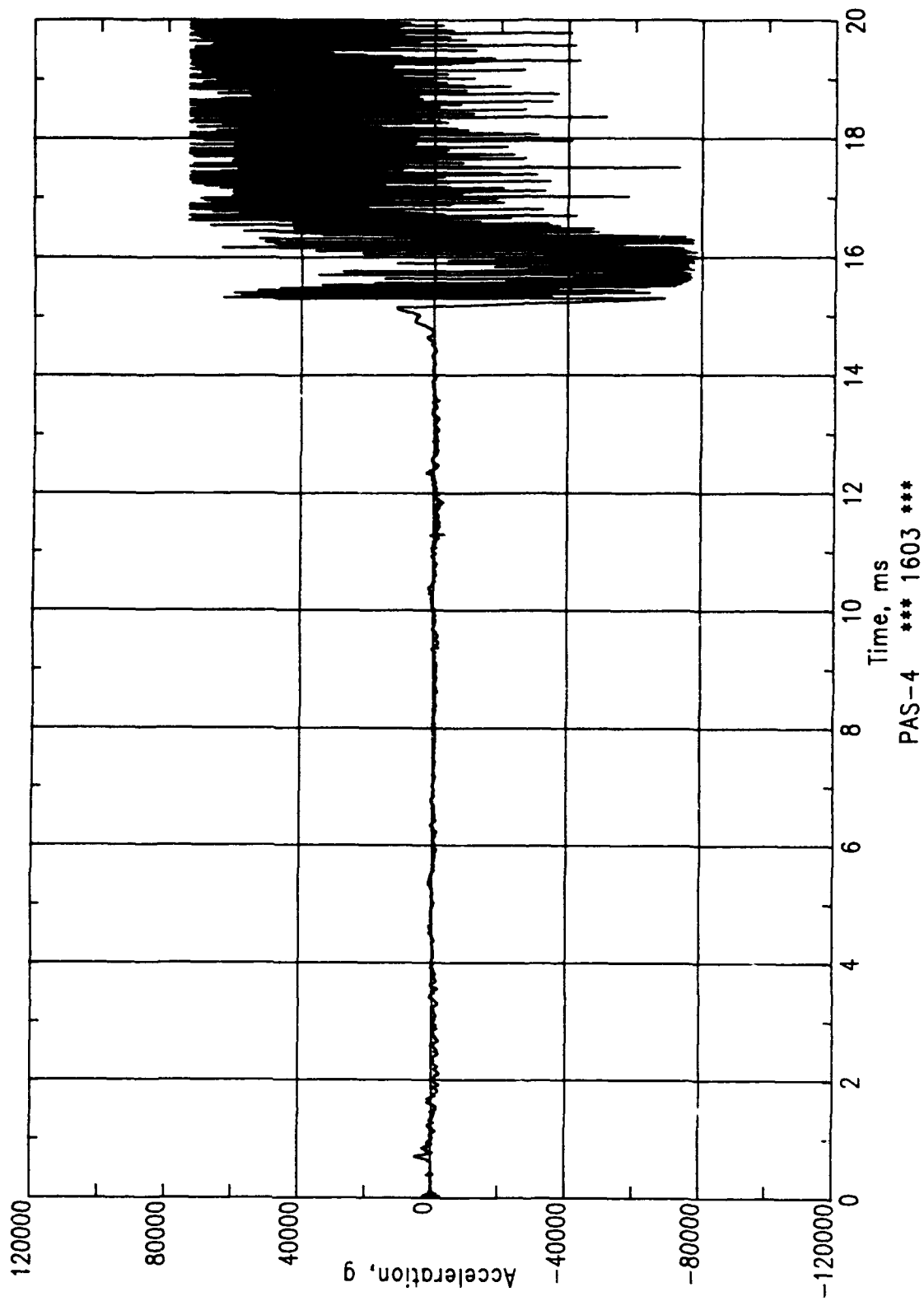


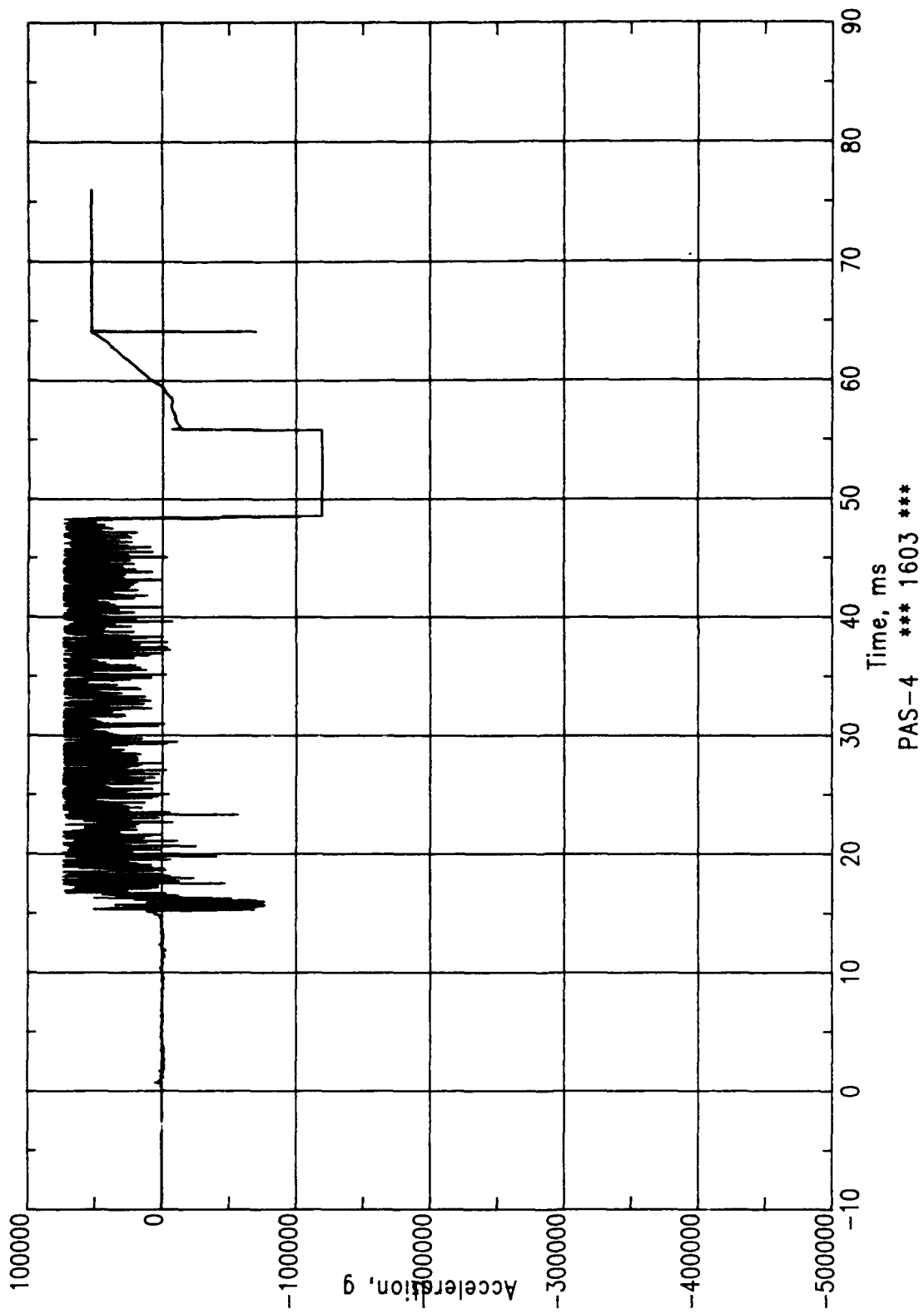




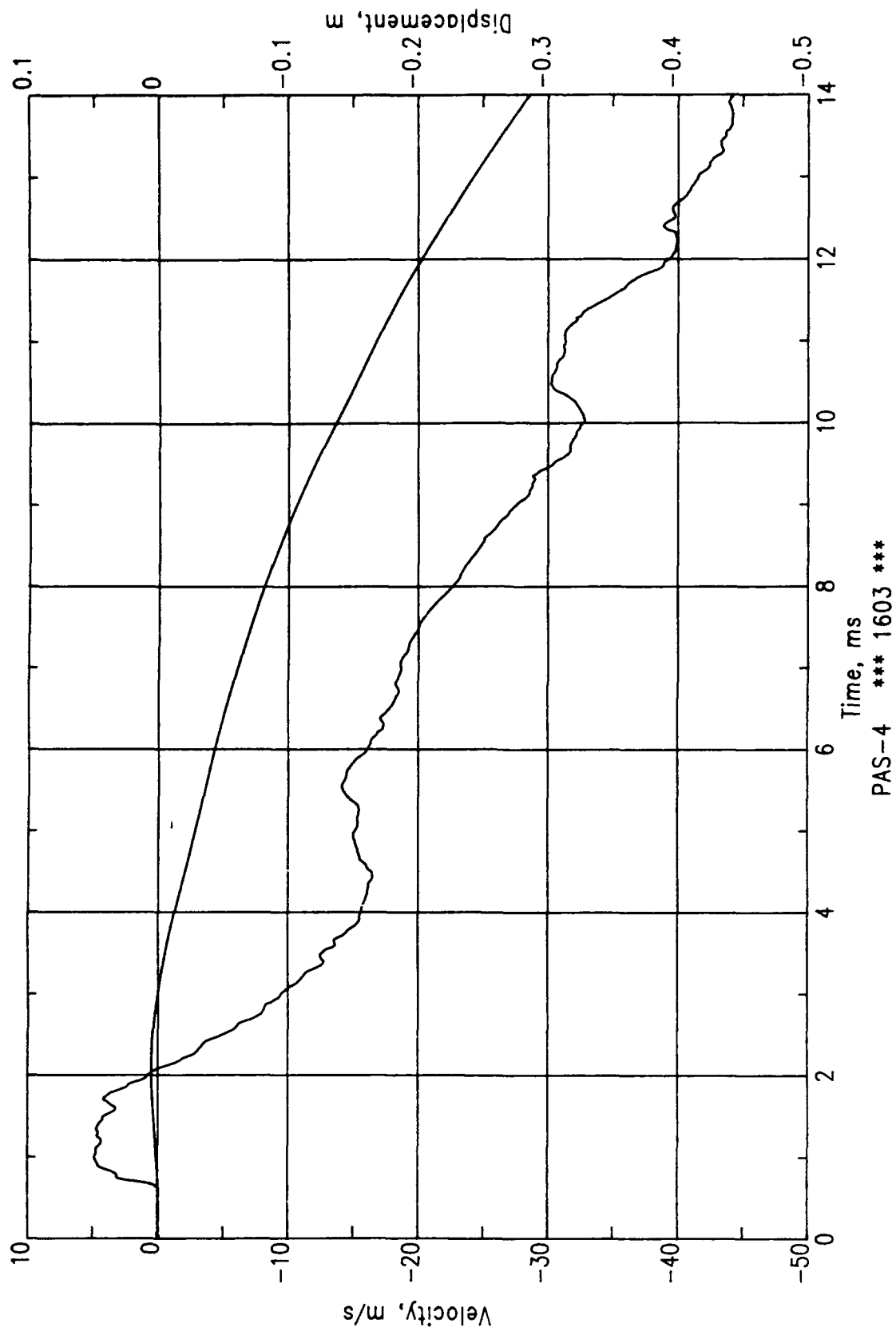




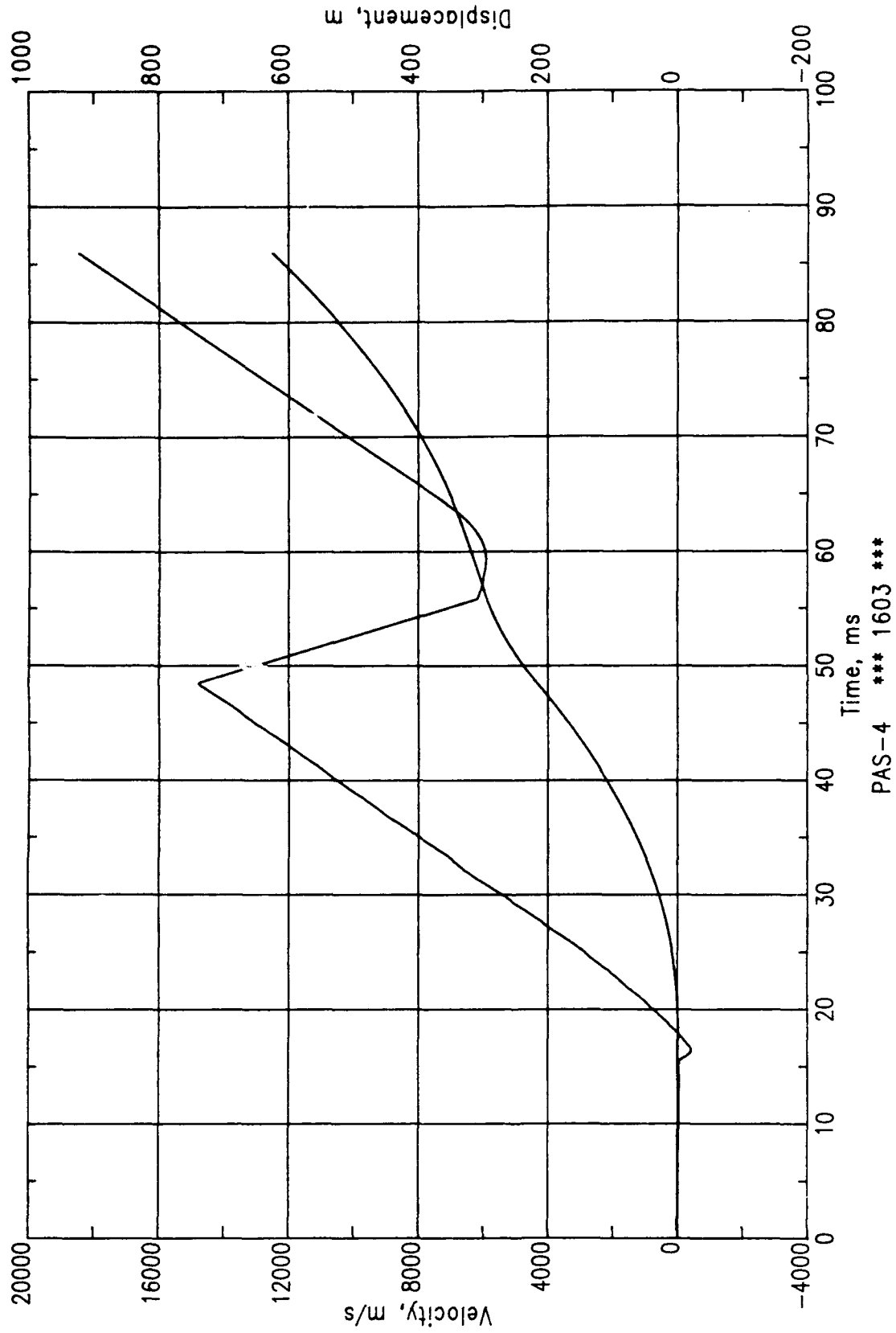


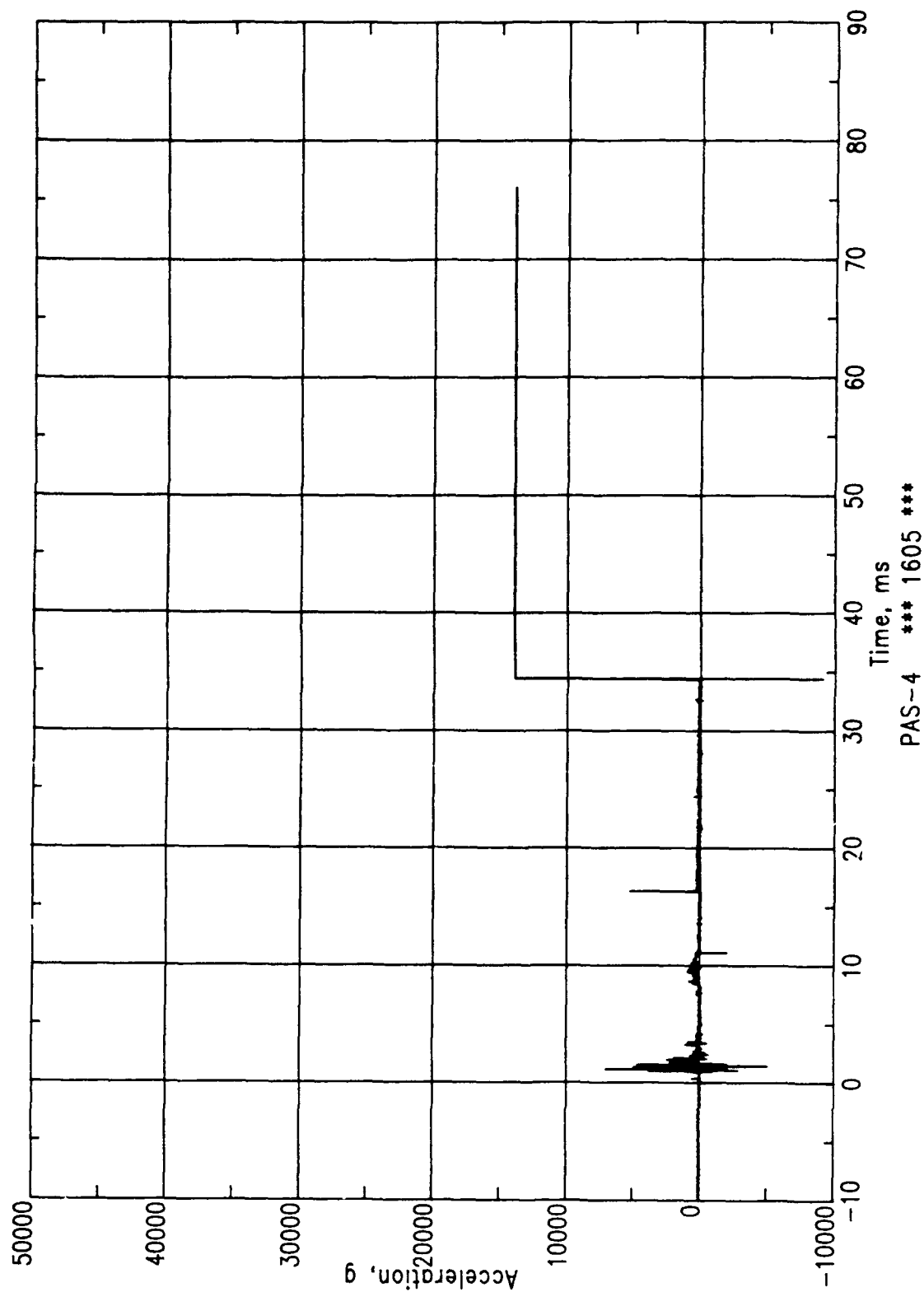


PAS-4 *** 1603 ***

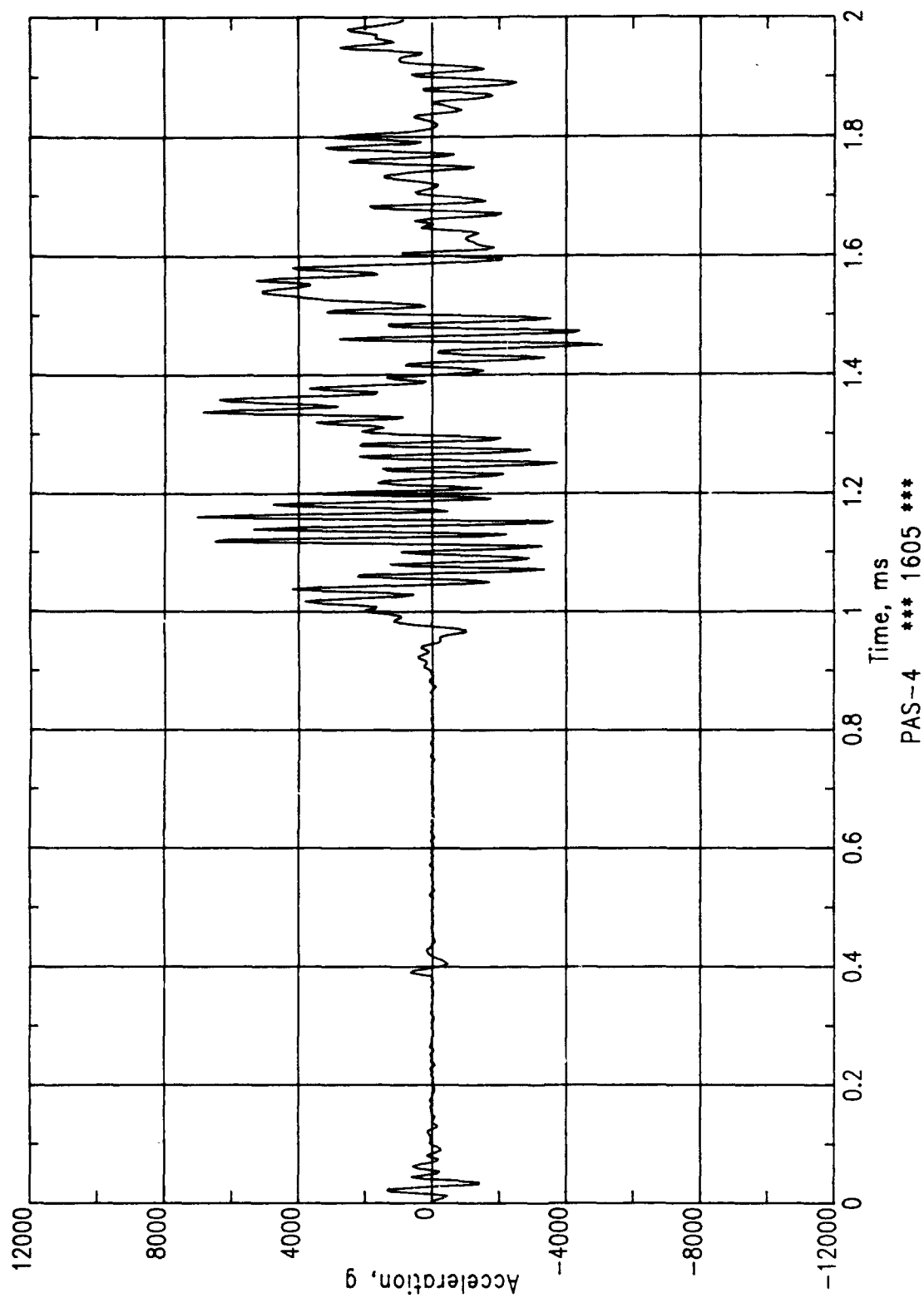


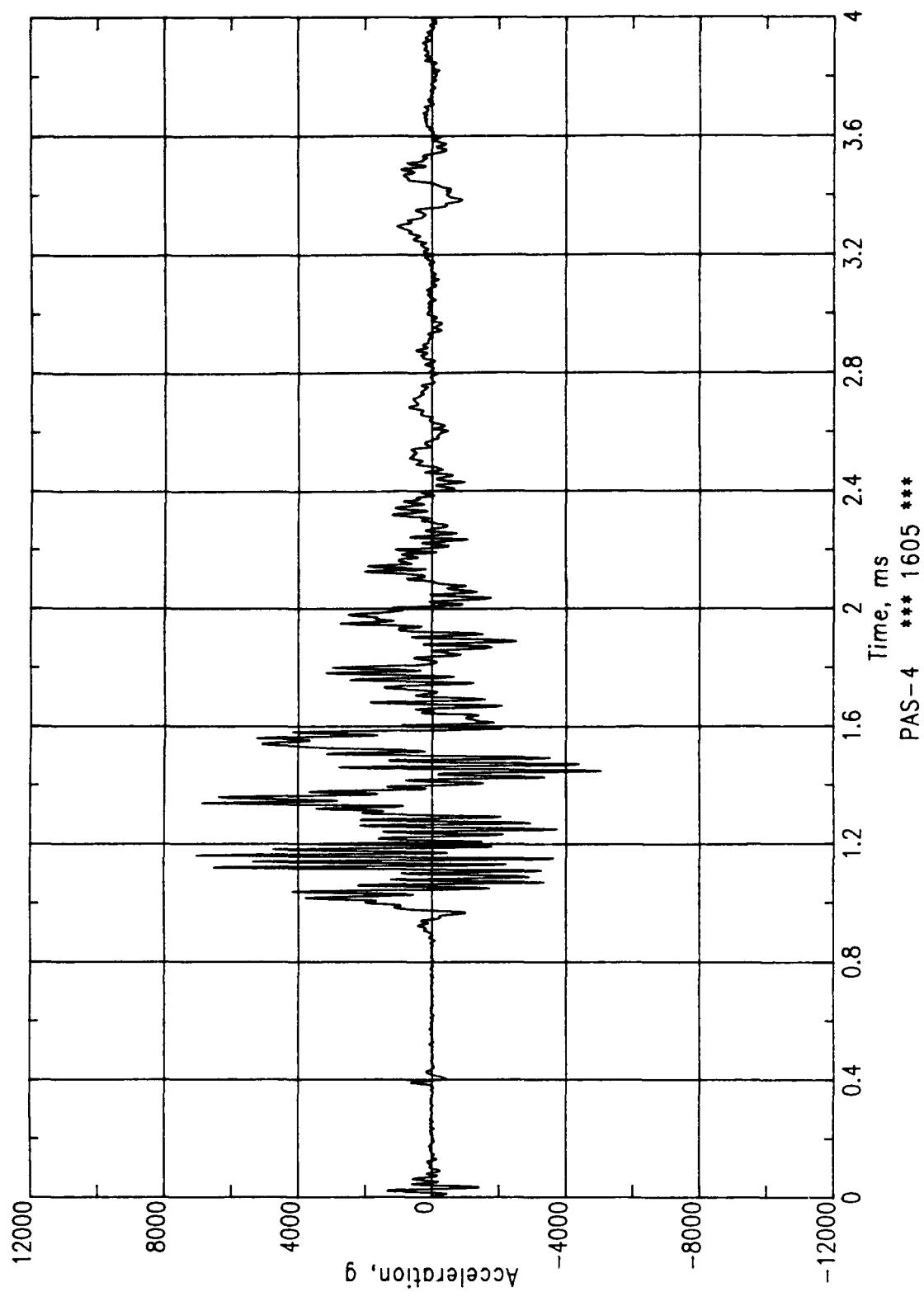
PAS-4 *** 1603 ***

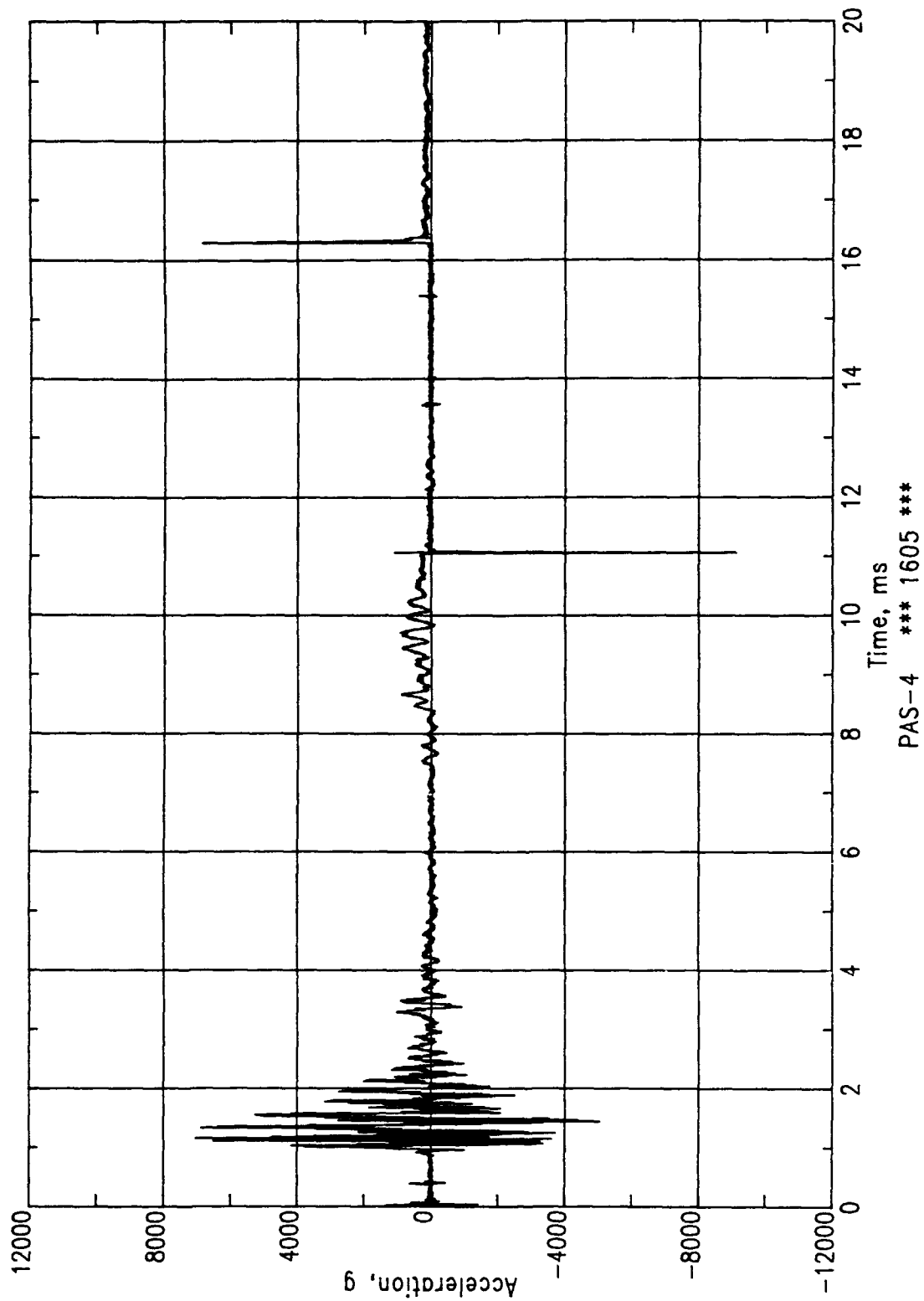


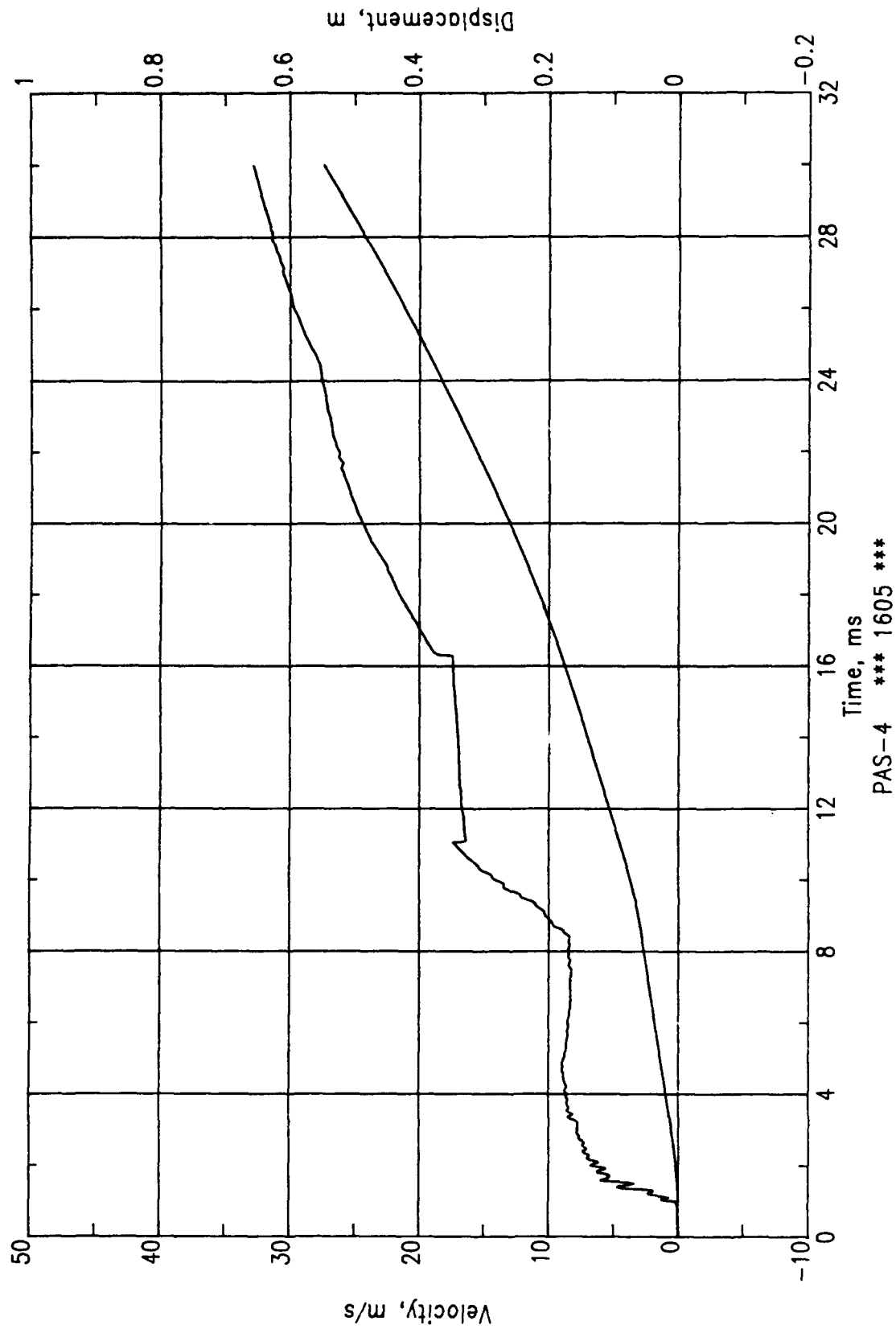


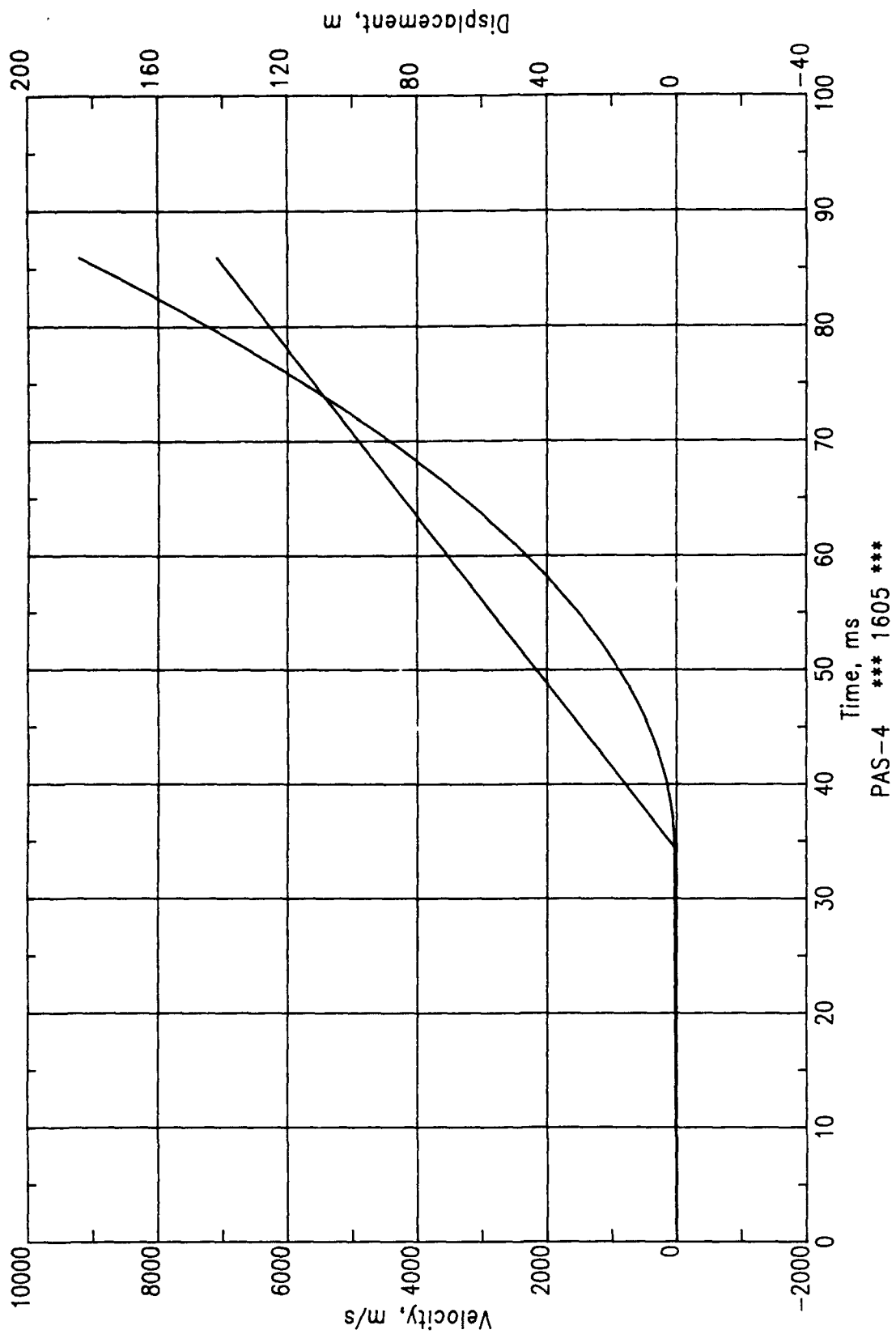
PAS-4 *** 1605 ***











3.0 PAS-4 CONCRETE DEBRIS

3.1 SIEVE DATA

The zone identification numbers and dimensions of the collection zones of the four 5-deg sectors are listed on the next page. The remaining pages present the weight and number of pieces of debris retained on each of the sieves.

ZONE IDENTIFICATION						INSIDE RADIUS (m)	OUTSIDE RADIUS (m)	AVERAGE RADIUS (m)	ZONE AREA (m ²)
0 Deg Az	45 Deg Az	90 Deg Az	135 Deg Az	180 Deg Az	270 Deg Az				
000AZ-1			135AZ-1		270AZ-2	10.0	15.0	12.5	5.45
000AZ-2	045AZ-2	090AZ-2	135AZ-2		270AZ-3	15.0	20.0	17.5	7.64
000AZ-3	045AZ-3	090AZ-3	135AZ-3		270AZ-4	20.0	25.0	22.5	9.82
000AZ-4	045AZ-4	090AZ-4	135AZ-4		270AZ-5	25.0	30.0	27.5	12.00
000AZ-5	045AZ-5	090AZ-5	135AZ-5	180AZ-5	270AZ-6	30.0	35.0	32.5	14.18
000AZ-6	045AZ-6	090AZ-6		180AZ-6	270AZ-7	35.0	40.0	37.5	16.36
000AZ-7	045AZ-7	090AZ-7		180AZ-7	270AZ-8	40.0	45.0	42.5	18.54
000AZ-8	045AZ-8	090AZ-8		180AZ-8		45.0	50.0	47.5	20.73
000AZ-9	045AZ-9	090AZ-9		180AZ-9		50.0	55.0	52.5	22.91
000AZ-10	045AZ-10			180AZ-10		55.0	60.0	57.5	25.09
000AZ-11				180AZ-11	270AZ-11	60.0	65.0	62.5	27.27
000AZ-12				180AZ-12	270AZ-12	65.0	70.0	67.5	29.45
000AZ-13					270AZ-13	70.0	75.0	72.5	31.63
		090AZ-14			270AZ-14	75.0	80.0	77.5	33.82
		090AZ-15			270AZ-15	80.0	85.0	82.5	36.00
		090AZ-16			270AZ-16	85.0	90.0	87.5	38.18
		090AZ-17			270AZ-17	90.0	95.0	92.5	40.36
		090AZ-18			270AZ-18	95.0	100.0	97.5	42.54

0 Deg Azimuth (Front Sector)

ZONE I.D.	WEIGHT RETAINED ON SIEVE (gm.)											TOTALS
	SIEVE SIZE (mm)											
	64-51	51-38	38-32	32-25	25-22	22-19	19-16	16-13	13-10			
000AZ- 1	0.0	0.0	169.2	40.1	0.0	88.0	78.5	47.0	78.3		501.1	
000AZ- 2	0.0	0.0	62.6	47.9	11.9	67.1	101.6	93.8	120.1		505.0	
000AZ- 3	0.0	209.0	0.0	175.4	54.0	110.7	114.2	174.9	182.7		1020.9	
000AZ- 4	0.0	111.3	34.1	56.2	36.0	122.1	62.9	79.5	97.2		599.3	
000AZ- 5	0.0	165.3	237.2	85.0	76.6	58.8	123.5	83.3	118.8		948.5	
000AZ- 6	0.0	0.0	299.6	134.5	32.6	90.9	51.0	74.4	70.2		753.2	
000AZ- 7	0.0	0.0	291.4	80.2	25.5	80.1	22.4	33.2	45.7		578.5	
000AZ- 8	0.0	0.0	307.8	80.4	0.0	92.7	37.3	28.5	44.1		590.8	
000AZ- 9	0.0	144.0	177.4	180.8	38.6	29.9	13.9	23.7	11.8		620.1	
000AZ- 10	0.0	0.0	76.9	22.6	22.3	0.0	31.5	0.0	9.4		162.7	
000AZ- 11	0.0	118.6	0.0	0.0	15.7	14.3	8.1	15.0	2.2		173.9	
000AZ- 12	0.0	0.0	130.0	22.9	0.0	19.5	6.4	11.9	2.7		193.4	
000AZ- 13	218.2	135.7	0.0	65.0	0.0	23.5	13.8	0.0	0.0		456.2	
Totals	218.2	883.9	1786.2	991.0	313.2	797.6	665.1	665.2	783.2		7103.6	

ZONE I.D.	NUMBER RETAINED ON SIEVE (gm.)											TOTALS
	SIEVE SIZE (mm)											
	64-51	51-38	38-32	32-25	25-22	22-19	19-16	16-13	13-10			
000AZ-1	0	0	3	1	0	8	11	11	36			70
000AZ-2	0	0	1	2	1	6	14	23	61			108
000AZ-3	0	2	0	6	3	9	16	42	92			170
000AZ-4	0	1	1	2	2	10	9	19	51			95
000AZ-5	0	2	5	3	4	5	17	20	59			115
000AZ-6	0	0	6	4	2	8	7	18	32			77
000AZ-7	0	0	5	2	2	7	3	8	22			49
000AZ-8	0	0	5	2	0	8	5	7	21			48
000AZ-9	0	2	3	6	2	2	2	6	6			29
000AZ-10	0	0	1	1	1	0	4	0	5			12
000AZ-11	0	1	0	0	1	1	1	4	1			9
000AZ-12	0	0	2	1	0	2	1	3	1			10
000AZ-13	1	1	0	2	0	2	2	0	0			8
Totals	1	9	32	32	18	68	92	161	387			800
AVE. WT.	218.2	98.2	55.8	31.0	17.4	11.7	7.2	4.1	2.0			8.9
S.F	0.48	0.46	0.54	0.56	0.56	0.57	0.56	0.56	0.55			0.55

45 Deg Azimuth (Front Corner Sector)

ZONE I.D.	WEIGHT RETAINED ON SIEVE (gm.)										TOTALS
	SIEVE SIZE (mm)										
	64-51	51-38	38-32	32-25	25-22	22-19	19-16	16-13	13-10		
045AZ- 2	0.0	0.0	138.7	53.9	0.0	62.7	35.4	79.5	89.4		459.6
045AZ- 3	0.0	248.0	39.6	238.1	59.1	110.2	110.4	102.6	124.6		1032.6
045AZ- 4	272.8	194.6	44.5	234.3	96.1	93.9	58.2	97.1	103.9		1195.4
045AZ- 5	299.9	299.0	256.3	140.4	98.5	65.0	80.2	94.7	69.1		1403.1
045AZ- 6	195.7	330.0	112.7	133.3	111.0	67.8	70.5	42.8	50.3		1114.1
045AZ- 7	181.0	335.0	103.5	165.7	52.3	119.3	60.4	88.7	148.5		1254.4
045AZ- 8	773.0	332.7	115.6	231.0	90.0	74.8	78.6	47.1	98.3		1841.1
045AZ- 9	0.0	0.0	0.0	27.8	55.4	46.2	15.1	18.2	10.5		173.2
045AZ- 10	0.0	317.8	122.6	33.9	29.5	0.0	16.5	12.6	8.0		540.9
Totals	1722.4	2057.1	933.5	1258.4	591.9	639.9	525.3	583.3	702.6		9014.4

ZONE I.D.	NUMBER RETAINED ON SIEVE (gm.)										TOTALS
	SIEVE SIZE (mm)										
	64-51	51-38	38-32	32-25	25-22	22-19	19-16	16-13	13-10		
045AZ-2	0	0	3	2	0	6	5	19	42	77	
045AZ-3	0	2	1	8	3	9	15	25	63	126	
045AZ-4	1	2	1	8	5	8	8	24	53	110	
045AZ-5	1	3	5	4	5	6	11	23	32	90	
045AZ-6	1	3	2	4	6	6	10	11	24	67	
045AZ-7	1	3	2	5	3	10	9	22	72	127	
045AZ-8	3	3	2	7	5	6	11	12	46	95	
045AZ-9	0	0	0	1	3	4	2	4	5	19	
045AZ-10	0	3	2	1	2	0	3	3	4	18	
Totals	7	19	18	40	32	55	74	143	341	729	
AVE. WT.	246.1	108.3	51.9	31.5	18.5	11.6	7.1	4.1	2.1	12.4	
S.F	0.54	0.51	0.50	0.57	0.59	0.56	0.55	0.56	0.56	0.55	

90 Deg Azimuth (West Side Sector)

ZONE I.D.	WEIGHT RETAINED ON SIEVE (gm.)										
	SIEVE SIZE (mm)										
	64-51	51-38	38-32	32-25	25-22	22-19	19-16	16-13	13-10	TOTALS	
090AZ-2	0.0	179.9	76.4	176.1	109.9	112.5	107.4	152.1	179.2	1093.5	
090AZ-3	488.7	215.5	555.8	492.2	74.0	125.4	39.4	183.9	221.9	2396.8	
090AZ-4	644.7	290.9	397.3	270.4	135.7	250.0	175.3	269.5	178.0	2611.8	
090AZ-5	459.1	507.4	69.1	160.3	96.7	142.4	194.9	359.7	449.6	2439.2	
090AZ-6	0.0	1025.1	366.4	383.5	326.5	289.2	333.8	351.0	178.5	3254.0	
090AZ-7	0.0	484.7	369.7	789.0	297.6	246.2	259.4	265.6	182.1	2894.3	
090AZ-8	526.4	371.7	285.8	638.5	230.2	303.6	200.9	211.8	157.5	2926.4	
090AZ-9	216.1	1020.0	653.7	585.2	249.8	171.2	245.3	248.5	113.5	3503.3	
090AZ-14	244.3	550.4	335.0	426.0	138.2	156.5	148.4	113.2	47.5	2159.5	
090AZ-15	343.8	655.7	477.1	380.6	84.4	98.1	114.9	99.3	77.0	2330.9	
090AZ-16	708.5	858.6	411.5	428.4	180.2	178.7	101.8	62.2	70.7	3000.6	
090AZ-17	244.3	907.1	181.4	223.5	229.8	110.1	67.5	72.4	71.8	2107.9	
090AZ-18	325.3	157.0	445.9	289.1	127.9	53.9	66.5	41.7	29.5	1536.8	
Totals	4201.2	7224.0	4625.1	5242.8	2280.9	2237.8	2055.5	2430.9	1956.8	2255.0	

ZONE I.D.	NUMBER RETAINED ON SIEVE (gm.)										
	SIEVE SIZE (mm)										
	64-51	51-38	38-32	32-25	25-22	22-19	19-16	16-13	13-10	TOTALS	
090AZ-2	0	2	2	6	6	9	15	37	85	162	
090AZ-3	2	2	10	16	4	10	6	45	113	208	
090AZ-4	4	4	8	9	7	19	26	69	96	242	
090AZ-5	2	5	1	5	5	12	28	90	233	381	
090AZ-6	0	9	6	12	19	22	45	78	85	276	
090AZ-7	0	4	6	26	15	21	36	67	97	272	
090AZ-8	3	4	6	19	12	25	30	50	78	227	
090AZ-9	1	10	12	19	13	14	34	60	58	221	
090AZ-14	1	6	7	13	8	12	19	29	23	118	
090AZ-15	2	6	9	13	5	8	16	24	38	121	
090AZ-16	3	7	7	12	9	15	14	14	34	115	
090AZ-17	1	8	4	8	12	10	8	17	38	106	
090AZ-18	3	2	8	9	7	5	9	10	15	68	
Totals	22	69	86	167	122	182	286	590	993	2517	

AVE. WT.	191.0	104.7	53.8	31.4	18.7	12.3	7.2	4.1	2.0	12.8	
S.F.	0.42	0.50	0.52	0.57	0.60	0.59	0.56	0.56	0.54	0.55	

135 Deg Azimuth (Back Corner Sector)

ZONE I.D.	WEIGHT RETAINED ON SIEVE (gm)										
	SIEVE SIZE (mm)										
	64-51	51-38	38-32	32-25	25-22	22-19	19-16	16-13	13-10	TOTALS	
135AZ- 1	0.0	0.0	0.0	32.3	60.3	27.0	11.8	37.3	45.6	214.3	
135AZ- 2	0.0	0.0	152.2	127.3	63.8	21.3	16.2	59.7	100.5	541.0	
135AZ- 3	0.0	0.0	35.5	97.3	57.9	48.1	26.3	23.0	41.2	329.3	
135AZ- 4	159.8	91.6	0.0	227.3	26.9	29.1	42.2	39.0	22.4	638.3	
135AZ- 5	0.0	0.0	38.2	30.7	58.8	41.8	20.1	32.1	12.3	234.0	
Totals	159.8	91.6	225.9	514.9	267.7	167.3	116.6	191.1	222.0	1956.9	

ZONE I.D.	NUMBER RETAINED ON SIEVE (gm)										
	SIEVE SIZE (mm)										
	64-51	51-38	38-32	32-25	25-22	22-19	19-16	16-13	13-10	TOTALS	
135AZ- 1	0	0	0	1	3	2	2	9	23	40	
135AZ- 2	0	0	3	4	4	2	3	15	53	84	
135AZ- 3	0	0	1	3	3	4	4	6	21	42	
135AZ- 4	1	1	0	7	1	2	6	10	12	40	
135AZ- 5	0	0	1	1	3	3	3	8	6	25	
Totals	1	1	5	16	14	13	18	48	115	231	
AVE. WT.	159.8	91.6	45.2	32.2	19.1	12.9	6.5	4.0	1.9	8.5	
S.F	0.35	0.43	0.44	0.58	0.61	0.62	0.50	0.54	0.53	0.53	

180 Deg Azimuth (Back Sector)

ZONE I.D.	WEIGHT RETAINED ON SIEVE (gm)										
	SIEVE SIZE (mm)										
	64-51	51-38	38-32	32-25	25-22	22-19	19-16	16-13	13-10	TOTALS	
180AZ- 5	0.0	119.6	269.2	145.7	29.3	104.5	39.3	70.0	59.6	837.2	
180AZ- 6	0.0	0.0	190.3	108.3	27.5	98.4	76.6	50.7	85.0	636.8	
180AZ- 8	0.0	0.0	148.2	26.8	0.0	72.3	53.5	112.9	133.0	546.7	
180AZ- 9	0.0	154.7	130.2	88.6	89.5	0.0	70.8	133.1	181.1	848.0	
180AZ- 10	282.1	0.0	56.6	28.8	98.7	85.3	34.6	116.6	129.0	831.7	
180AZ- 11	202.5	130.4	217.1	171.4	44.9	66.2	113.5	117.5	185.2	1248.7	
180AZ- 12	0.0	0.0	34.4	145.5	90.9	98.8	68.7	173.7	111.9	723.9	
Totals	484.6	404.7	1046.0	715.1	380.8	525.5	457.0	774.5	884.8	5673.0	

ZONE I.D.	NUMBER RETAINED ON SIEVE (gm)										
	SIEVE SIZE (mm)										
	64-51	51-38	38-32	32-25	25-22	22-19	19-16	16-13	13-10	TOTALS	
180AZ- 5	0	1	5	5	2	9	5	17	31	75	
180AZ- 6	0	0	4	3	1	8	11	12	43	82	
180AZ- 8	0	0	3	1	0	6	7	27	67	111	
180AZ- 9	0	2	3	3	5	0	10	33	93	149	
180AZ- 10	1	0	1	1	5	7	5	28	65	113	
180AZ- 11	1	1	4	6	2	6	16	28	93	157	
180AZ- 12	0	0	1	5	1	8	10	42	56	127	
Totals	2	4	21	24	20	44	64	187	448	814	
AVE. WT.	242.3	101.2	49.8	29.8	19.0	11.9	7.1	4.1	2.0	7.0	
S.F	0.53	0.48	0.48	0.54	0.61	0.58	0.56	0.57	0.54	0.54	

270 Deg Azimuth (East Side Sector)

ZONE I.D.	WEIGHT RETAINED ON SIEVE (gm)												TOTALS
	SIEVE SIZE (mm)												
	64-51	51-38	38-32	32-25	25-22	22-19	19-16	16-13	13-10				
270AZ- 2	0.0	0.0	113.2	107.7	81.6	93.8	126.9	140.9	162.2				826.3
270AZ- 3	0.0	237.3	66.3	223.3	201.4	89.6	115.8	130.7	115.6				1180.0
270AZ- 4	0.0	430.0	90.4	310.0	151.2	143.6	110.9	139.0	151.0				1526.1
270AZ- 5	0.0	355.0	450.2	405.4	328.9	263.5	149.6	272.2	114.8				2339.6
270AZ- 6	0.0	326.7	187.3	157.9	208.9	264.6	131.0	153.5	105.4				1535.3
270AZ- 7	0.0	452.2	95.3	413.8	231.3	162.2	131.0	149.7	149.5				785.0
270AZ- 8	0.0	161.4	336.5	136.1	111.2	266.7	154.8	137.7	186.6				1491.0
270AZ- 11	4290.2	3479.7	2565.8	2913.3	1566.6	1059.5	847.4	925.6	1085.2				18733.3
270AZ- 2	408.6	2337.4	905.4	1208.3	415.9	430.0	274.8	230.7	165.9				6377.0
270AZ- 13	1024.1	1268.9	838.5	653.1	186.2	212.2	88.0	60.4	63.7				4395.1
270AZ- 14	476.3	1458.6	802.1	400.5	168.3	190.1	100.5	110.8	78.3				3785.5
270AZ- 15	374.8	608.8	390.8	358.6	138.9	155.5	70.0	108.2	49.8				2255.4
270AZ- 16	310.1	1287.8	416.0	184.4	102.6	236.2	149.9	100.1	75.0				2862.1
270AZ- 17	0.0	749.1	592.8	186.5	83.3	105.4	47.8	24.7	19.4				1809.0
270AZ- 18	0.0	515.2	0.0	436.3	212.1	95.3	77.1	65.9	4.5				1406.4
Totals	6884.1	12403.8	7257.8	7472.4	3893.0	3567.5	2450.6	2659.5	2503.0				52307.1

ZONE I.D.	NUMBER RETAINED ON SIEVE (gm)										TOTALS
	SIEVE SIZE (mm)										
	64-51	51-38	38-32	32-25	25-22	22-19	19-16	16-13	13-10		
270AZ- 2	0	0	2	4	4	7	18	37	85	157	
270AZ- 3	0	2	1	7	9	9	17	34	65	144	
270AZ- 4	0	4	2	10	8	12	15	33	76	160	
270AZ- 5	0	4	7	13	16	20	19	67	63	209	
270AZ- 6	0	3	4	5	11	22	19	38	50	152	
270AZ- 7	0	5	2	13	11	14	20	35	74	174	
270AZ- 8	0	2	5	5	6	20	21	36	98	193	
270AZ- 11	19	32	47	92	82	91	117	223	548	1251	
270AZ- 12	2	23	17	38	22	37	38	56	84	317	
270AZ- 13	4	12	15	21	10	18	12	15	32	139	
270AZ- 14	2	14	15	13	9	16	14	27	40	150	
270AZ- 15	2	5	4	11	7	13	10	26	25	103	
270AZ- 16	2	13	8	6	5	20	21	25	39	139	
270AZ- 17	0	7	11	6	4	9	7	6	9	59	
270AZ- 18	0	5	0	14	11	9	11	16	2	68	
Totals	31	119	129	238	200	299	341	652	1279	3415	
AVE. WT.	222.1	104.2	56.3	31.4	19.5	11.9	7.2	4.1	2.0	15.3	
S.F	0.49	0.49	0.55	0.57	0.62	0.58	0.56	0.56	0.54	0.56	

3.2 DEBRIS LOCATION DATA

Figures D-9 and D-10 show the reference system of the coordinates and the range-azimuth. The coordinates and the range and azimuth of each of the pieces of PAS-4 debris collected in the circular collection area are presented next. The data are sorted by the I.D. number (mark) of each piece. I.D. marks not shown in the listing were not used.

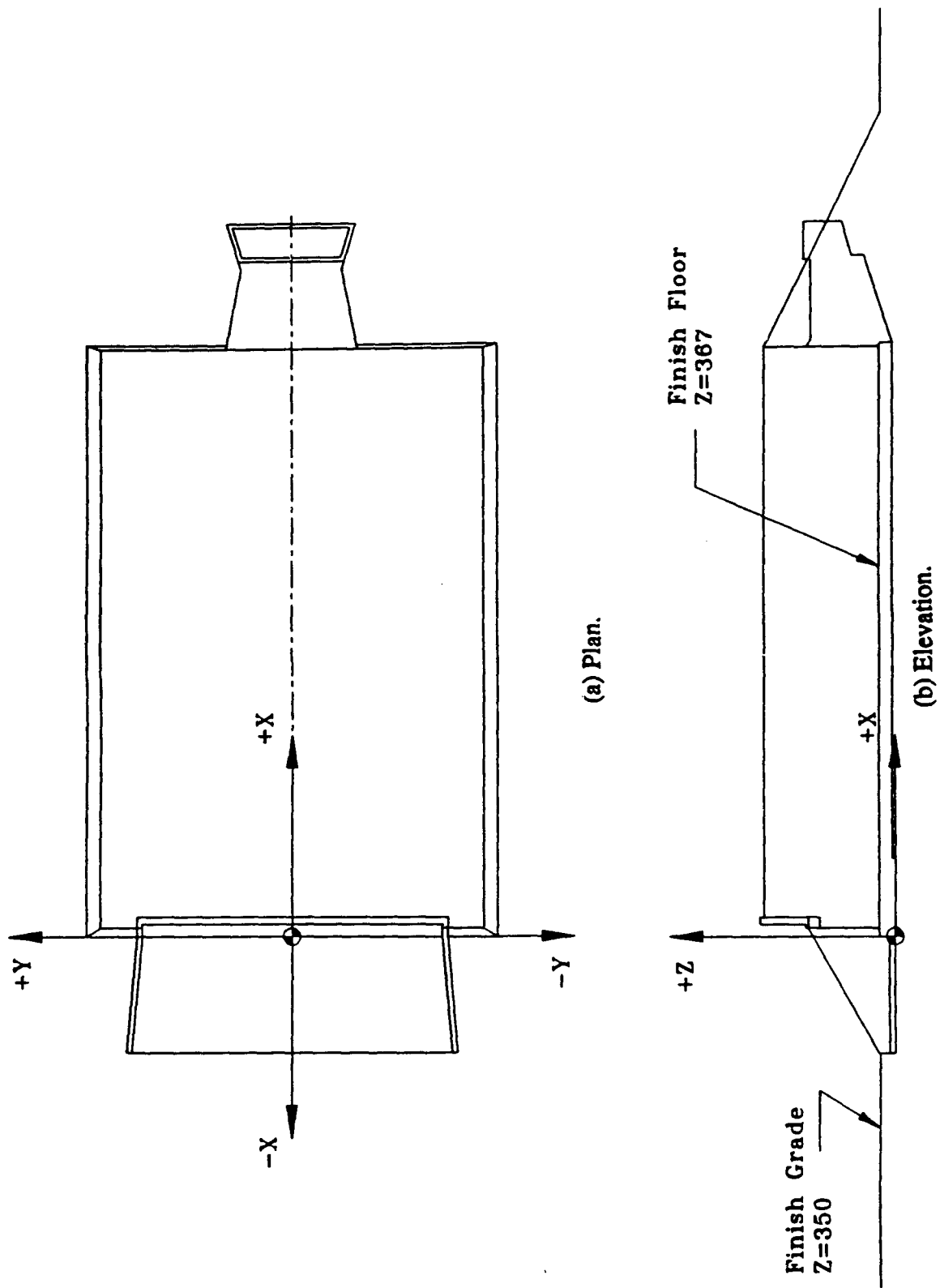


Figure D-9. Structure coordinate system, PAS-4.

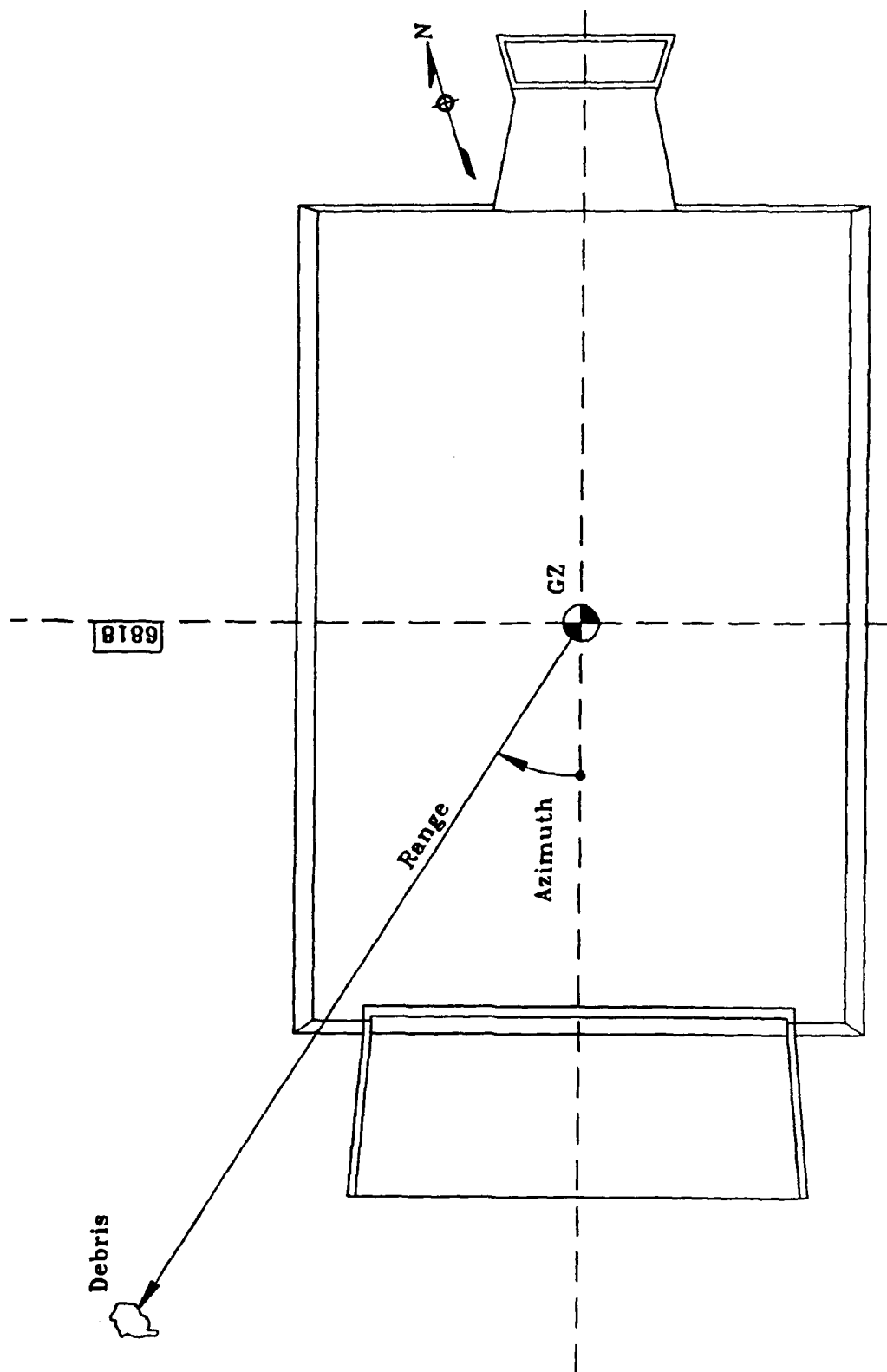


Figure D-10. Range and azimuth reference system, PAS-4.

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1	-13981	4672	21317	12.66
2	-5585	7211	14347	30.17
3	-9173	9100	18399	29.64
4	-10810	11794	21210	33.79
5	-15809	19639	29961	40.96
6	-19420	20682	33409	38.25
7	-19987	21945	34642	39.31
8	-21225	20074	34487	35.60
9	-21359	19678	33553	35.91
10	-21724	20686	35250	35.93
11	-32310	29229	48840	36.76
12	-35227	33206	53576	38.30
13	-35852	32724	53774	37.48
14	-34633	36333	55120	41.24
15	-38030	35583	57249	38.43
16	-38166	35618	57378	38.37
17	-37941	33993	56203	37.22
18	-38558	33199	56224	36.19
19	-40854	30562	56627	32.66
20	-52387	46085	75028	37.90
21	-55779	49583	79855	38.38
22	-59171	49732	82631	37.00
23	-68169	65171	99349	40.99
24	-57930	36231	74195	29.23
25	-50394	32923	66009	29.92
26	-52800	30169	66816	26.84
27	-37688	30520	53965	34.44
28	-42366	22740	54186	24.81
29	-28151	23692	42239	34.12
30	-28173	20425	40516	30.27
31	-34068	13694	43118	18.52
32	-28812	16116	39105	24.34
33	-26910	10754	35401	17.68
34	-23274	8804	31353	16.31
35	-20624	1341	27474	2.80
36	-21302	-18	28120	359.96
37	-19632	455	26454	0.99
38	-15959	2394	22903	6.00
39	-16068	2743	23049	15.10
40	-16278	6232	23922	38.65
41	-7492	11442	18322	38.09

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
42	-7487	11211	18175	34.40
43	-8284	10342	18304	35.73
44	-8714	11175	19134	35.32
45	-8407	10788	18659	39.70
46	-4788	9635	15084	35.45
47	-6306	9344	16111	26.38
48	-6483	6598	14847	19.94
49	-14434	7711	22608	10.10
50	-19294	4653	26523	16.98
51	-20971	8485	29055	24.24
52	-32809	17842	43459	13.46
53	-38486	10844	46583	27.17
54	-55338	31909	69868	27.02
55	-68028	38163	84014	29.54
56	-32148	22086	44790	3.34
57	-30506	2181	37387	1.34
58	-42148	1146	48980	2.92
59	-42936	2539	49819	13.79
60	-50523	14077	59044	23.43
61	-55146	26853	67533	30.98
62	-56061	37751	73342	358.50
63	-97442	-2722	104296	20.00
64	-58514	23773	69523	7.57
65	-68505	10015	75986	4.90
66	-84057	7790	91209	23.39
67	-41549	20917	52696	20.38
68	-64053	26330	75604	23.79
69	-65184	31736	78686	34.28
70	-68494	51336	91145	35.77
71	-51589	42071	71982	35.22
72	-48124	38787	67254	35.14
73	-39184	32378	56254	23.18
74	-36950	18741	47612	325.61
100	-2558	-6417	11362	332.03
101	-5316	-6442	13738	318.56
102	-6349	-11627	17566	317.78
103	-8230	-13653	20318	313.37
104	-6870	-14488	19932	314.54
105	-7084	-14128	19821	335.13
106	-13625	-9475	22532	344.38
107	-15813	-6329	23500	348.71

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
108	-17992	-4955	25300	353.09
109	-19186	-3153	26194	357.82
110	-20276	-1030	27114	354.53
111	-22644	-2819	29597	349.35
112	-22701	-5552	30036	348.47
113	-23995	-6284	31447	349.51
114	-25776	-6036	33148	329.14
115	-18581	-15177	29588	330.13
116	-16967	-13660	27429	332.99
117	-17814	-12557	27648	331.37
118	-17968	-13532	28239	333.53
119	-20183	-13442	30162	335.75
120	-19512	-11859	28877	332.38
121	-20081	-14077	30360	334.00
122	-20066	-13113	29912	340.17
123	-19045	-9327	27493	342.87
124	-19490	-8108	27529	340.79
125	-19818	-9279	28206	327.15
126	-20118	-17394	32064	322.23
127	-17999	-19232	31397	319.04
128	-18350	-21848	33328	317.54
129	-18220	-22909	33937	318.47
130	-19141	-22988	34675	319.82
131	-20664	-23212	35973	320.17
132	-21380	-23516	36717	316.19
133	-19803	-25535	36888	316.54
134	-20267	-25667	37315	313.41
135	-18422	-26678	36726	313.52
136	-19339	-27548	37988	316.35
137	-20958	-26499	38389	316.91
138	-20689	-25735	37669	319.09
139	-22147	-25097	38325	320.58
140	-22412	-24026	37837	322.11
141	-23889	-23899	38911	326.16
142	-25896	-21935	39387	316.83
143	-22806	-27789	40618	314.85
144	-23850	-30832	43488	319.89
145	-27032	-28514	44259	316.00
146	-28494	-34101	49090	323.87
147	-26663	-24443	41454	328.53
148	-24718	-19303	36975	328.73

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
149	-24349	-18929	36465	328.76
150	-23186	-18201	35093	327.20
151	-20782	-17790	32836	334.24
152	-22463	-14129	32512	334.13
153	-23125	-14520	33278	335.90
154	-23836	-13715	33582	350.28
155	-13442	-3470	20555	321.43
156	-12755	-15606	25033	322.26
157	-13509	-15734	25704	321.88
158	-13626	-16041	25986	318.22
159	-13719	-18349	27540	322.53
160	-14665	-16465	27067	321.62
161	-14896	-17197	27700	324.09
162	-15292	-16009	27297	318.04
163	-15381	-19960	29852	322.02
164	-16693	-18359	29830	322.42
165	-16855	-18217	29871	322.23
167	-15590	-17268	28289	327.61
168	-14226	-13350	24921	333.28
169	-15359	-11163	24829	334.43
170	-14312	-10108	23423	339.19
171	-11568	-6988	19669	337.31
172	-19546	-11024	28576	336.54
173	-18584	-11023	27690	340.50
174	-20465	-9662	28943	341.06
175	-21063	-9569	29478	338.70
176	-21672	-11107	30579	342.73
177	-24898	-9860	33214	343.68
178	-26365	-9714	34576	356.46
179	-25996	-2033	32877	357.34
181	-28456	-2771	35382	355.51
182	-31021	-1111	37855	358.32
183	-30266	-3240	37225	355.01
184	-29241	-5592	36490	351.19
185	-28291	-8172	36047	346.90
186	-28918	-10126	37143	344.18
187	-29752	-9150	37698	345.95
188	-26208	-13043	35509	338.45
189	-29598	-13344	38784	339.88
190	-27882	-13219	37132	339.15
191	-31074	-22743	44193	329.03

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
192	-32155	-17105	42562	336.30
193	-29788	-12049	38538	341.78
194	-30732	-11577	39294	342.86
195	-31630	-13063	40607	341.23
196	-33960	-11055	42250	344.83
197	-34061	-11070	42352	344.85
198	-35222	-11853	43679	344.25
199	-34665	-7370	42133	349.93
200	-33922	-3410	40882	355.22
201	-33943	-3458	40907	355.15
202	-36712	-4070	43720	354.66
203	-36740	-5268	43875	353.10
204	-38175	-4518	45219	354.27
205	-39042	-4299	46061	354.64
206	-37766	-8066	45307	349.75
207	-41390	-4580	48425	354.57
208	-42281	-4738	49327	354.49
209	-42464	-5649	49605	353.46
210	-46776	-3488	53707	356.28
211	-47754	-5721	54871	354.02
212	-48436	-7502	55761	352.27
213	-49537	-5799	56653	354.12
214	-56052	-1414	62886	358.71
215	-56921	-3102	63815	357.21
216	-52620	-8670	60067	351.70
217	-45879	-8744	53417	350.58
218	-57638	-7984	64949	352.94
219	-53564	-12376	61637	348.42
220	-49686	-15324	58545	344.83
221	-48678	-16391	57866	343.55
222	-47027	-16065	56190	343.39
223	-46678	-17296	56222	342.08
224	-45159	-16000	54384	342.89
225	-46418	-11213	54404	348.11
226	-47199	-10714	55069	348.78
227	-47873	-11230	55832	348.40
228	-45392	-17307	55003	341.66
229	-43812	-18347	53852	340.08
231	-39221	-17878	49389	338.78
230	-43924	-16277	53288	342.21
232	-39062	-17892	49246	338.70

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CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
233	-40618	-16878	50349	340.41
234	-40863	-18817	51259	338.46
235	-38425	-18883	49026	337.35
236	-37060	-18546	47637	337.09
237	-37538	-15713	47057	340.49
238	-39302	-12883	47885	344.39
239	-50564	-5695	57664	354.33
240	-50701	-5566	57788	354.47
241	-35317	-20726	46957	333.81
242	-34679	-19910	46026	334.37
243	-33026	-25990	47571	326.88
244	-30877	-25358	45431	326.07
245	-31268	-24'29	45086	327.64
246	-32002	-23431	45344	328.89
247	-28061	-25266	43069	324.08
248	-25606	-23834	40242	323.68
249	-22070	-32224	43277	311.87
250	-21461	-31119	42049	312.26
251	-22202	-33189	44087	311.17
252	-18582	-28719	38340	311.49
253	-24310	-29262	42723	316.77
254	-25023	-27000	41748	319.70
255	-23876	-25624	39984	320.14
256	-24732	-24915	40202	321.70
257	-31495	-27834	47356	324.00
258	-32325	-29038	48738	323.43
259	-32917	-33150	51747	320.16
260	-39619	-41271	62126	318.37
261	-38887	-48122	66368	313.52
262	-39161	-48153	66580	313.68
263	-40441	-51436	69850	312.58
264	-43062	-47013	68544	316.69
265	-41215	-41248	63313	316.69
266	-40018	-37575	60046	319.35
267	-37830	-35819	57240	321.26
268	-46720	-37294	65247	321.26
269	-49878	-53803	78162	325.14
270	-56629	-51361	81630	316.50
271	-66913	-60134	95144	321.01
272	-65879	-60378	94500	320.80
273	-59332	-46879	81077	320.29

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CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
274	-51651	-38770	70155	324.68
275	-56692	-33029	71585	326.45
276	-42931	-34291	60422	332.52
277	-43788	-33248	60551	325.42
278	-44627	-32110	60643	328.03
279	-40117	-29296	55328	328.03
280	-41594	-29854	56877	328.34
281	-43343	-28942	57912	330.02
282	-45267	-30698	60458	329.49
283	-49246	-30288	63722	331.62
284	-47140	-29013	61264	331.73
285	-46698	-27465	60152	332.83
286	-45654	-27599	59288	332.26
287	-45553	-28661	59700	331.31
288	-46626	-28736	60680	331.73
289	-47142	-26300	60028	334.02
290	-46974	-24698	59191	335.34
291	-47823	-25073	60119	335.35
292	-52537	-25362	64547	336.86
293	-51814	-23786	63273	337.92
294	-54841	-28605	67971	335.11
295	-56570	-31148	70628	333.83
296	-66526	-33078	80458	335.72
297	-60572	-38430	77578	330.31
298	-55685	-33140	70745	332.07
299	-52423	-29541	66198	333.50
300	-62503	-27171	74456	338.60
301	-61418	-23738	72247	340.82
302	-58784	-22459	69340	341.10
303	-56993	-23895	68138	339.47
304	-30784	-32028	49394	319.58
305	-31627	-31379	49625	320.78
306	-34846	-32355	52751	322.17
307	-46685	-21614	57704	338.00
308	-46408	-19229	56593	340.14
309	-46650	-18627	56619	340.79
310	-45445	-21673	56579	337.48
311	-53120	-20690	63408	340.96
312	-69145	-26254	80371	340.93
314	-70968	-23189	81169	343.40
315	-72516	-7733	79710	354.43

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CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
316	-60432	-8023	67727	353.20
317	-56777	-12986	64907	348.46
318	-52980	-13903	61393	346.91
319	-55592	-18254	65025	343.70
320	-52607	-17069	61827	343.97
400	20956	10599	17669	143.14
401	22882	11988	20045	143.27
402	23335	12887	20950	142.04
403	34222	12045	29934	156.27
404	33351	9796	28283	159.74
405	38815	7314	32822	167.12
406	44290	16380	40896	156.39
407	49553	16476	45801	158.92
408	56209	12061	50842	166.28
409	58712	4330	52074	175.23
410	64412	19078	60671	161.67
411	69658	19613	65830	162.67
412	73097	16794	68374	165.78
413	80275	14678	74909	168.70
414	89422	7026	82903	175.14
417	105026	14027	99204	171.87
418	110431	23495	106244	167.22
419	108078	24077	104083	166.62
420	99093	19777	94371	167.90
421	93513	19303	88818	167.45
423	51599	1544	44807	178.02
424	52919	7468	46702	170.80
425	55330	14158	50536	163.73
426	53627	28375	54738	148.78
427	71136	49902	81406	142.19
428	81399	59736	95555	141.31
429	85578	56106	96700	144.54
430	89261	42496	92751	152.73
431	82045	33707	82434	155.86
432	83963	30677	83021	158.31
433	81101	35371	82274	154.54
434	89481	21833	85498	165.21
435	86578	16475	81444	168.33
436	90165	16053	84879	169.10
437	69505	13442	64112	167.90
600	18923	-10603	16092	221.22

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CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
601	21307	-17610	22804	230.55
602	15766	-25645	27161	250.77
603	27325	-24496	31946	230.06
604	30244	-25763	34821	227.72
605	28895	-27503	35268	231.25
606	25912	-33467	38530	240.29
607	19908	-42243	44224	252.78
608	22922	-39939	43063	248.04
609	26632	-40470	45060	243.91
610	27363	-43332	47956	244.63
611	18670	-52160	53489	257.20
612	17622	-52135	53243	258.29
613	20451	-56762	58376	256.49
614	20238	-66203	67549	258.54
615	19551	-68393	69568	259.45
616	19867	-70173	71376	259.47
617	20554	-71362	72672	259.10
618	3396	-80319	80392	272.44
619	12983	-74418	74673	265.26
620	12955	-75193	75443	265.33
621	10087	-73512	73584	267.45
622	12813	-73591	73835	265.34
623	12699	-77911	78133	265.68
624	13969	-79799	80119	264.88
625	19188	-79039	80001	261.10
626	16938	-81041	81670	262.88
627	15479	-84445	84888	264.14
628	15903	-86120	86598	263.98
629	15903	-86121	86599	263.98
630	15864	-89756	90211	264.24
631	12622	-92538	92720	266.41
632	23617	-86789	88400	259.05
633	26547	-94254	96297	258.18
634	39515	-79105	85597	247.54
635	44460	-69279	78845	241.48
636	43695	-69027	78260	241.89
637	44149	-67462	77102	241.04
638	16374	-67570	68242	261.95
639	36702	-101212	105531	253.55
640	47948	-57037	70320	234.20
700	-3351	-31842	33426	287.71

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CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
701	-3334	-32454	34005	287.37
702	-4299	-29306	31344	290.77
703	-4116	-29386	31354	290.41
704	993	-20314	21132	286.00
705	-6292	-22690	26206	300.02
706	5377	-25157	25198	273.28
707	3773	-25773	25952	276.74
708	1041	-26648	27267	282.23
709	3726	-29694	29855	275.94
710	2540	-29774	30079	278.18
711	-505	-28742	29661	284.29
712	-8569	-28223	32144	298.60
713	-9472	-32149	36040	296.87
714	-11557	-31090	36115	300.58
715	-7249	-32559	35468	293.37
716	-1189	-32715	33680	283.75
717	4871	-35188	35242	273.17
718	2110	-35866	36173	277.48
720	-9994	-37404	41009	294.20
721	-10390	-39280	42884	293.66
722	-13789	-35685	41208	300.00
724	-19661	-38177	46461	304.74
725	-21902	-35354	45550	309.09
726	-23197	-39671	49746	307.11
727	-20663	-40051	48573	304.46
728	-18364	-42227	49165	300.81
729	-14972	-41235	46638	297.85
731	-12612	-42487	46719	294.58
732	-10162	-44079	47237	291.07
733	-10334	-46635	49689	290.19
734	-9330	-44859	47677	289.80
735	-12868	-40678	45191	295.82
736	-9016	-41606	44517	290.84
737	-6449	-41188	43273	287.85
738	-3933	-42547	43885	284.18
739	-4694	-44106	45583	284.63
740	-1383	-46285	47005	280.05
741	1131	-43066	43440	277.52
742	-2768	-33097	34457	286.15
743	1968	-36843	37161	277.50
744	2159	-36197	36496	277.33

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CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
745	3054	-37489	37678	275.73
746	3210	-39201	39367	275.26
747	2459	-40093	40330	276.20
748	4496	-41929	41993	273.17
749	3983	-48169	48252	273.37
750	5033	-51298	51329	271.99
751	3577	-55294	55389	273.35
752	-2379	-55685	56439	279.38
753	-25395	-90876	96417	289.52
754	-21094	-86554	90943	287.87
755	-23610	-82466	87901	290.25
756	-15289	-72740	76025	286.90
757	-15518	-71593	74997	287.33
758	-16491	-70851	74587	288.21
759	-17764	-67343	71689	290.05
760	-11911	-71061	73488	284.77
761	-11827	-69637	72090	284.99
762	-24032	-68054	74720	294.39
763	-27437	-68934	76976	296.42
764	-26537	-55956	65143	300.80
765	-20032	-61023	66669	293.75
766	-21637	-35726	45673	308.54
767	-5021	-15891	19816	306.69
768	-26235	-105491	110548	287.40
769	-17423	-110625	113250	282.36
770	-28971	-126620	131580	285.78
771	-31709	-124457	130283	287.20
772	-27036	-124010	128548	285.27
773	-14193	-114364	116279	280.41
1001	-18120	-51562	57277	295.81
1002	-9390	-63134	65181	284.40
1003	-15827	-63652	67560	289.58
1004	-11171	-67346	69707	284.95
1005	-26497	-65354	73355	297.01
1006	-17312	-82951	86390	286.22
1007	-25795	-80258	86631	292.11
1008	-26993	-88878	95092	290.83
1009	-23746	-93506	98374	288.10
1010	-13649	-121105	122823	279.59
1011	-14508	-160105	161519	277.59
1012	-3144	-147744	148079	273.86

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CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1013	-3636	-144054	144433	274.15
1014	-2023	-142247	142522	273.56
1015	4056	-148623	148649	271.06
1016	3346	-132814	132859	271.50
1017	-14624	-131463	133200	279.26
1018	-16406	-122095	124284	280.77
1019	-8927	-117184	118237	277.65
1020	-7044	-116377	117200	276.79
1021	-7281	-116121	116974	276.92
1022	-16709	-111296	113756	281.94
1023	-17533	-108488	111187	282.65
1024	-15764	-107596	109941	281.85
1025	-16862	-102076	104787	283.06
1026	813	-114783	114940	272.99
1027	-4139	-107878	108433	275.80
1029	-5668	-107373	108097	276.63
1030	-1482	-100323	100666	274.73
1031	3576	-93320	93376	271.99
1032	3574	-93318	93375	271.99
1033	-3280	-76997	77656	277.47
1034	7306	-81930	81932	269.66
1035	6889	-90033	90033	269.95
1036	10506	-99182	99250	267.87
1037	9630	-90828	90871	268.23
1038	10087	-107070	107120	268.25
1039	11405	-116206	116296	267.74
1040	8340	-131759	131768	269.34
1041	13585	-157077	157223	267.53
1042	27808	-171359	172640	263.02
1043	27046	-154569	155887	262.54
1044	39597	-145825	149464	257.33
1045	24745	-126161	127428	261.91
1046	15362	-114738	115056	265.74
1047	7072	-114601	114601	269.87
1048	29014	-107297	109569	258.31
1049	23959	-102666	104087	260.52
1050	17464	-96819	97402	263.72
1051	12792	-80753	80974	265.77
1052	18242	-76266	77117	261.48
1053	25700	-67494	70086	254.37
1054	29400	-54696	59174	247.57

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1055	37409	-58724	66214	242.48
1056	62937	-66739	87197	229.94
1057	-3461	8057	13060	38.09
1058	-5815	11890	17348	43.26
1059	-6301	12077	17832	42.63
1060	-4242	12583	16752	48.69
1061	-4073	15428	18884	54.78
1062	-7329	12213	18690	40.80
1063	-9866	16654	23574	44.95
1064	-9764	18237	24649	47.72
1065	-5762	20183	23783	58.06
1066	-5138	21711	24785	61.16
1067	-5198	22676	25663	62.08
1068	-4774	22940	25702	63.19
1069	-6491	23278	26814	60.24
1070	-5961	23797	27012	61.76
1071	-12822	22266	29690	48.59
1072	-13556	21668	29742	46.76
1073	-13747	21560	29795	46.35
1074	-14390	21504	30203	45.40
1075	-11050	26935	32323	56.44
1076	-12969	26738	33263	53.50
1077	-15505	26288	34487	49.66
1078	-11609	28896	34272	57.47
1079	-10594	28871	33715	58.91
1080	-15275	30119	37354	53.74
1081	-16754	30386	38458	52.20
1082	-17194	30119	38519	51.44
1083	-16364	33624	40841	55.42
1084	-16768	33051	40604	54.49
1085	-21622	32042	42843	48.41
1086	-23145	31721	43635	46.63
1087	-26912	33387	47460	44.71
1088	-23761	36892	47918	50.35
1089	-18155	40056	47203	58.06
1090	-17895	39810	46857	58.17
1091	-14977	37780	43616	60.02
1092	-16230	34869	41798	56.54
1093	-12581	36792	41593	62.20
1094	-7402	37818	40403	69.59
1095	-6383	39948	42072	71.71

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1096	-5430	45386	47010	74.90
1097	-2338	48579	49435	79.33
1098	-2345	42780	43750	77.91
1099	-2136	40179	41165	77.44
1100	15	41294	41850	80.65
1101	-8979	37445	40641	67.13
1102	-6597	36191	38597	69.66
1103	-7419	35852	38575	68.34
1104	-7513	35442	38230	67.98
1105	-8591	31827	35361	64.17
1106	-8899	31485	35190	63.47
1107	-8829	31427	35106	63.53
1108	-6255	31989	34558	67.77
1109	-5420	30607	32963	68.21
1110	-5354	27208	29807	65.90
1111	-7080	27040	30403	62.80
1112	-5738	26840	29631	64.93
1113	-5259	25248	27988	64.44
1114	-3153	24003	25991	67.44
1115	-257	22574	23656	72.60
1116	3898	21108	21309	82.12
1117	950	20058	20898	73.69
1118	359	17171	18345	69.39
1119	-2522	18204	20461	62.84
1120	4497	15802	15972	81.64
1121	6357	14338	14345	88.16
1122	6672	16631	16632	89.50
1123	6508	22397	22400	89.21
1124	3007	26446	26720	81.80
1125	2355	25627	26013	80.12
1126	-1179	25052	26297	72.30
1127	-1854	25414	26853	71.16
1128	-2428	27504	29017	71.42
1129	-2560	28162	29682	71.58
1130	-6386	28836	31715	65.40
1131	3241	33716	33906	83.94
1132	3225	29857	30073	83.14
1133	3267	29331	29545	83.10
1134	2911	28567	28833	82.21
1135	4950	25379	25448	85.79
1136	5573	42788	42806	88.33

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CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1178	-4199	55435	56520	78.76
1179	-4646	56220	57377	78.47
1180	-6714	61075	62556	77.51
1181	-7775	60772	62499	76.50
1182	-8240	60439	62287	76.01
1183	-9923	59607	61913	74.31
1184	-4691	60925	62003	79.30
1185	-4478	61345	62377	79.57
1186	-4477	61346	62377	79.57
1188	-84438	13903	92309	8.66
1189	-97988	7869	105101	4.29
1190	-98769	29763	109701	15.74
1191	-87815	61124	112657	32.86
1192	-122043	19352	130306	8.54
1193	-126949	17089	134854	7.28
1194	-136812	3676	143677	1.47
1195	-137427	7009	144416	2.78
1196	-139462	8718	146540	3.41
1197	-134725	11718	142027	4.73
1198	-142684	14317	150186	5.47
1199	-162398	13301	169738	4.49
1200	-167385	19737	175317	6.46
1201	-183442	30280	192655	9.04
1202	-187572	31398	196910	9.18
1203	-236500	-69584	253073	344.04
1204	-228723	-97333	254859	337.55
1205	-244157	-113661	275512	335.64
1206	-211299	-102602	241044	334.81
1207	-200281	-98006	229118	334.68
1208	-200207	-98429	229233	334.57
1209	-166444	-52491	181038	343.15
1210	-126634	-30442	136880	347.15
1211	-111562	-25237	121040	347.97
1212	-91657	-35919	104821	339.96
1213	-105322	-33911	117156	343.17
1214	-112388	-32978	123684	344.54
1215	-114923	-52118	132428	336.82
1216	-132349	-53472	149086	338.98
1217	-141016	-75073	165803	333.08
1218	-106483	-58073	127317	332.86
1219	-85585	-76859	120190	320.25

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1137	1230	43911	44265	82.75
1138	5662	46669	46684	88.58
1139	5072	46182	46215	87.84
1140	4579	50859	50908	87.48
1141	2570	49961	50141	85.14
1142	-1515	47092	47824	79.97
1143	-6258	44284	46174	73.55
1144	-8945	45697	48339	70.97
1145	-7073	49614	51522	74.36
1146	-7078	49969	51865	74.46
1147	-4462	49463	50733	77.15
1148	-10065	49201	52017	71.06
1149	-11943	55402	58493	71.29
1150	-9929	56275	58714	73.43
1151	-11384	57816	60613	72.52
1152	-15024	54397	58619	68.12
1153	-19150	54212	60111	64.40
1154	-19152	54212	60112	64.40
1155	-20941	54557	61213	63.03
1156	-19768	54089	60270	63.83
1157	-19718	53502	59721	63.62
1158	-19564	54006	60106	63.96
1159	-22779	54574	62083	61.53
1160	-19166	47746	54358	61.44
1161	-19843	47506	54476	60.70
1162	-17542	43378	49750	60.68
1163	-21338	40482	49311	55.18
1164	-23931	37871	48782	50.93
1165	-19347	39501	47381	56.48
1166	-15258	43559	48834	63.12
1167	-11477	54043	57056	71.30
1168	-11178	49765	52919	70.12
1169	-7457	52843	54737	74.88
1170	-7485	55804	57608	75.62
1171	-10143	56577	59065	73.31
1172	-6906	49721	51580	74.57
1173	-5590	42160	43948	73.60
1174	1357	40783	41147	82.37
1175	-1575	45145	45919	79.47
1176	-4119	54089	55184	78.57
1177	-3610	54629	55616	79.19

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1220	-51675	-113333	127538	297.30
1221	-45463	-129477	139634	291.99
1222	-28401	-111150	116596	287.58
1223	-27469	-111981	117113	287.02
1224	-28604	-123256	128245	286.03
1225	-30869	-130888	136206	286.06
1226	-30687	-131289	136541	285.94
1227	-30709	-133742	138907	285.67
1228	-30855	-147497	152232	284.33
1229	-29909	-155778	160049	283.27
1230	-29409	-157755	161861	282.93
1231	-28841	-158744	162699	282.66
1232	-9633	47687	50358	71.25
1233	-3233	52982	53927	79.26
1234	-4443	55440	56572	78.52
1235	-7318	52159	54046	74.82
1236	-8480	53855	55985	74.14
1237	-9504	53481	55916	73.03
1238	-11230	54455	57368	71.66
1239	-13187	51374	55132	68.72
1240	-18333	50550	56461	63.55
1241	-14526	47400	51984	65.76
1242	-32333	56630	68846	55.34
1243	-33895	56811	69893	54.37
1244	-33356	59091	71454	55.79
1245	-32075	58944	70619	56.58
1246	-29048	64886	74139	61.07
1247	-18976	61974	67127	67.40
1248	-18923	62695	67774	67.68
1249	-15702	58783	62949	69.04
1250	5264	36402	36435	87.56
1251	697	51791	52151	83.26
1252	5595	54342	54356	88.71
1253	3813	57413	57491	87.00
1254	2655	57692	57842	85.87
1255	3073	53517	53648	86.00
1256	2232	54719	54910	85.21
1257	1697	56195	56428	84.79
1258	582	56142	56488	83.66
1259	-1739	54580	55246	81.09
1260	520	55977	56330	83.58

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1261	-1461	59065	59642	82.02
1262	-2868	62142	62892	81.14
1263	1108	61538	61803	84.70
1264	-5662	62479	63713	78.70
1265	-6780	64143	65568	78.03
1266	-7196	66294	67759	78.06
1267	-8797	68884	70631	77.23
1268	-10161	67442	69547	75.87
1269	-17530	67828	72066	70.25
1270	-13057	75653	78221	75.28
1271	-22963	81591	86856	69.95
1272	-25069	80615	86692	68.42
1273	-35405	79367	89900	61.99
1274	-29305	83585	91057	66.63
1275	-23555	89093	94128	71.18
1276	4362	111450	111477	88.74
1277	1965	143415	143497	88.06
1278	-5376	158778	159245	85.61
1279	4218	83133	83174	88.21
1280	4921	30821	30879	86.48
1281	-5913	43236	45071	73.59
1282	-13920	35677	41266	59.83
1283	-15912	53686	58300	67.05
1284	-15593	54748	59158	67.74
1285	-25071	57471	65726	60.98
1286	-25329	57366	65759	60.73
1287	-23888	54236	62325	60.48
1288	-31082	54375	66280	55.12
1289	-35910	52456	67656	50.84
1290	-36497	49671	65905	48.91
1291	-15103	68653	72068	72.29
1292	-16564	68772	72638	71.22
1293	-18980	98652	101969	75.34
1294	-21090	99716	103548	74.36
1295	-24778	100239	105101	72.50
1296	-28536	104310	110139	71.28
1297	-32896	108844	115863	69.95
1298	-39233	117277	125994	68.56
1299	-29341	127987	132997	74.22
1300	-14758	175159	176483	82.98
1301	-10730	175450	176326	84.29

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1302	-14961	134316	136070	80.79
1303	-14641	120482	122379	79.90
1304	-20718	109441	112852	75.88
1305	-25587	112299	116881	73.90
1306	-25562	107392	112167	73.22
1307	-22230	107231	111096	74.84
1308	-16785	101819	104519	76.95
1309	-15221	102508	104851	77.87
1310	-14835	101052	103346	77.91
1311	13655	18722	19931	110.06
1312	16619	21461	23593	114.55
1313	15946	26370	27905	109.09
1314	11175	25719	26085	99.61
1315	11042	30661	30951	97.84
1316	14431	32344	33228	103.25
1317	18850	37471	39355	107.80
1318	21110	36962	39629	111.14
1319	20913	38447	40950	110.13
1320	15540	42517	43403	101.59
1321	16579	43148	44238	102.75
1322	15967	46795	47681	101.06
1323	15111	46589	47321	100.09
1324	14482	46592	47218	99.34
1325	8811	48611	48652	92.35
1326	8268	48778	48800	91.70
1327	18048	51858	53060	102.22
1329	19151	49328	50847	104.04
1328	18089	53341	54519	101.93
1330	22166	60996	62897	104.12
1331	20948	59920	61563	103.27
1332	30069	67492	71385	109.01
1333	26864	75748	78356	104.82
1334	26908	75961	78573	104.81
1335	22848	77776	79411	101.65
1336	17119	81915	82560	97.17
1337	18718	82768	83619	98.18
1338	21096	83978	85183	99.65
1339	25194	85046	87009	102.19
1340	33789	78059	82587	109.06
1341	38628	53418	62172	120.77
1342	34123	49154	56228	119.05

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1343	30882	46767	52595	117.23
1344	25478	43317	47165	113.31
1345	22960	44864	47680	109.79
1346	19782	66494	67746	101.03
1347	20077	64437	65787	101.63
1348	19452	63917	65154	101.18
1349	20478	55580	57234	103.81
1350	18496	55136	56359	101.96
1351	15568	50374	51129	99.85
1352	9408	51244	51309	92.89
1353	9154	50251	50305	92.66
1354	8184	46594	46614	91.68
1355	11587	40460	40740	96.72
1356	11077	41052	41273	95.92
1357	9906	40801	40917	94.33
1358	7438	40119	40124	90.89
1359	9161	32667	32751	94.10
1360	11148	32705	32990	97.54
1361	12702	26551	27195	102.50
1362	18272	24076	26662	115.44
1363	19441	18635	22508	124.11
1364	28244	23052	31471	132.91
1365	30848	27846	36781	130.79
1366	24071	35042	39059	116.21
1367	17542	37611	39110	105.91
1368	17119	37673	39056	105.29
1369	29504	127846	129843	100.06
1370	34484	130286	133191	101.99
1371	35625	130292	133439	102.47
1372	39174	129410	133393	104.04
1373	40324	126527	130889	104.83
1374	42264	117057	122306	106.85
1375	36592	103790	107976	106.01
1376	41179	101835	107476	108.65
1377	32414	98529	101799	104.56
1378	67163	111160	126483	118.50
1379	66662	106370	122049	119.36
1381	33708	-17991	32354	213.78
1382	32182	-17730	30947	214.95
1383	41155	-21999	40780	212.65
1384	45449	-30429	49176	218.23

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
LOCATIONS

I.D. MARK	COORDINATES		FROM GZ:	
	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1386	56319	-19228	53104	201.23
1387	56260	-17913	52587	199.92
1388	62235	-21309	59373	201.03
1389	74594	-30404	74284	204.16
1391	84130	-33818	84385	203.63
1392	88491	-36935	89637	204.33
1393	95266	-19529	90579	192.45
1394	100167	-29752	97975	197.68
1396	85667	-9940	79473	187.19
1397	85027	-12713	79235	189.23
1400	70366	-30499	70488	205.64
1401	76583	-3144	69836	182.58
1402	98412	-176	91594	180.11
1404	149622	-11011	143228	184.41
1405	120001	-22079	115316	191.04
1407	106763	-2618	99979	181.50
1408	89418	9347	83127	173.54
1410	24076	16379	23793	136.50
1411	19958	23260	26715	119.46
1412	10221	48000	48120	94.06
1413	17481	55863	56872	100.81
1414	15017	59042	59608	97.91
1415	15562	58973	59617	98.43
1416	14846	61806	62325	97.40
1417	14685	67288	67746	96.67
1418	17545	69681	70502	98.75
1419	16016	70275	70874	97.46
1420	15635	72013	72550	96.98
1421	15932	78359	78887	96.63
1422	15925	79690	80208	96.52
1423	16962	77859	78517	97.42
1424	14480	85109	85453	95.14

3.3 DEBRIS IDENTIFICATION DATA

This subsection presents the measured and observed characteristics of each piece of PAS-4 debris collected in the circular collection area. The shape factor was calculated based on the weight and dimensions for each piece. The data are sorted by the I.D. number (mark) of each piece. I.D. marks not shown in the listing were not used.

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
1	135	100	70	857.2	Y		FLAT SIDE	0.3780
2	202	105	114	2380.3	N			0.4102
3	175	150	90	1796.7	Y	B/Y		0.3169
4	360	160	65	4536.0	N		PART APRON	0.5048
5	105	105	75	1082.6	Y	G		0.5455
6	140	105	60	717.1	R			0.3388
7	140	85	50	474.1	R			0.3320
8	160	85	75	1089.0	W	G	FLAT SIDE	0.4449
9	125	60	39	308.4	R		FLAT RED SIDE/BLACK EDGE	0.4392
10	77	70	47	235.3	Y		GAUGE MOUNT IMPRESSION	0.3870
11	120	75	70	717.4	R	G		0.4745
12	77	66	65	350.0	B		BLACK FLAT SIDE	0.4415
13	135	105	85	1055.8	N		WHITE 3 SIDES	0.3651
14	142	135	35	806.9	B			0.5011
15	137	90	45	901.6	B	G	FLAT SIDE/WHITE STRIPE	0.6771
16	105	65	45	383.8	B	G	FLAT SIDE	0.5207
17	140	92	30	440.9	Y	G	FLAT WHITE SIDE	0.4754
18	105	105	102	1128.6	Y			0.4182
19	105	95	70	728.9	Y			0.4350
20	170	80	41	979.0	B	G	FLAT BLACK SIDE	0.7316
21	150	80	42	606.4	B	G	FLAT SIDE	0.5013
22	149	87	45	886.1	B	G	FLAT SIDE	0.6329
23	145	140	77	1770.9	B		FLAT WHITE/FLAT BLACK SIDE	0.4721
24	154	75	33	417.0	N		WHITE FLAT SIDE	0.4559
25	110	85	40	637.5	B		FLAT SIDE	0.7102
26	120	70	40	564.6	B		WHITE STRIPE END	0.7001
27	100	95	30	387.8	R			0.5670
28	140	95	60	878.7	Y	G		0.4588

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
29	100	77	42	317.2	Y	G	WHITE SIDE	0.4087
30	105	101	32	362.3	Y	G	WHITE SIDE	0.4448
31	80	90	30	211.3	B	Y		0.4076
32	110	80	25	215.7	R			0.4085
33	142	100	70	1361.7	Y		2 WHITE SIDES	0.5708
34	205	85	70	1349.0	Y		2 WHITE SIDES	0.4608
35	135	40	70	320.8	N		WHITE SIDE	0.3536
36	100	75	68	495.7	Y			0.4050
37	140	120	70	1304.4	N		FROM WING WALL	0.4622
38	100	50	40	199.8	Y		WHITE SIDE	0.4163
39	122	85	65	522.9	Y		2 WHITE SIDES	0.3232
40	160	70	80	1261.2	N		2 WHITE SIDES	0.5865
41	145	75	60	423.1	N		FLAT GRAY SIDE	0.2702
42	170	95	32	396.3	N		FLAT GRAY SIDE	0.3195
43	160	75	30	304.1	N			0.3520
44	115	85	50	382.1	Y			0.3257
45	65	75	60	345.0	N		FLAT GRAY SIDE	0.4915
46	175	135	70	1635.0	N		FLAT GRAY SIDE/WHITE SIDE	0.4119
47	150	80	25	245.4	N		FLAT GRAY SIDE	0.3408
48	130	56	42	285.2	N		FLAT GRAY SIDE	0.3886
49	95	80	55	429.8	Y	G		0.4284
50	80	80	40	277.1	Y		2 WHITE SIDES	0.4510
51	90	85	45	221.6	B		2 WHITE SIDES	0.2683
52	100	52	37	208.6	B	Y	FLAT BLACK SIDE	0.4517
53	105	65	35	311.6	B	Y	FLAT BLACK SIDE	0.5435
54	95	70	40	247.6	B	G	WHITE FLAT SIDE	0.3878
55	60	60	68	217.5	N		WHITE PAINT/SIDE	0.3702
56	100	78	40	332.0	Y			0.4434

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
57	125	105	32	593.1	N		FLAT WHITE SIDE	0.5884
58	115	125	70	1196.3	Y			0.4954
59	105	65	80	560.8	Y			0.4280
60	114	64	82	381.5	Y	G	FLAT WHITE SIDE	0.2657
61	113	115	35	638.0	Y		FLAT WHITE SIDE	0.5845
62	79	80	48	273.3	B		FLAT WHITE SIDE	0.3754
63	90	70	30	247.9	Y		FLAT WHITE SIDE	0.5465
64	110	115	40	614.2	Y		FLAT WHITE SIDE	0.5058
65	100	110	32	428.1	Y		FLAT WHITE SIDE	0.5067
66	140	120	90	2303.0	Y		FLAT WHITE SIDE	0.6346
67	85	48	45	195.0	B	G	WHITE STRIPE	0.4426
68	100	65	37	262.6	Y	G	FLAT WHITE SIDE	0.4550
69	90	80	35	211.2	Y		FLAT WHITE SIDE	0.3492
70	93	50	40	177.4	B			0.3974
71	98	65	30	216.3	Y		FLAT WHITE SIDE	0.4717
72	90	60	28	176.9	B		FLAT BLACK SIDE/BLACK PAINT	0.4875
73	85	60	50	259.8	B	G		0.4246
74	85	55	45	212.7	B	G	WHITE STRIPE	0.4213
100	145	85	88	1093.4	N		BLACK/WHITE ONE SIDE	0.4200
101	160	90	60	1039.0	N		WHITE FLAT SIDE	0.5011
102	97	80	30	207.4	Y	G		0.3712
103	130	100	62	693.3	Y		FLAT SIDE	0.3584
104	130	75	50	379.4	N			0.3243
105	95	65	35	203.8	N			0.3929
106	175	130	80	1692.8	Y	G	8 GAUGE REBAR (BROKEN)	0.3875
107	100	70	65	404.4	Y	B		0.3704
108	107	59	37	214.5	B			0.3826
109	70	80	35	253.9	Y		2 WHITE SIDES	0.5398

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
110	89	75	40	178.5	Y		2 WHITE SIDES	0.2786
111	70	50	60	210.9	Y			0.4185
112	90	60	30	139.0	B			0.3575
113	80	49	51	217.2	Y		FLAT SIDE	0.4527
114	100	60	49	275.7	B			0.3907
115	150	105	55	710.8	Y			0.3419
116	115	115	70	922.8	N		FLAT WHITE SIDE	0.4153
117	160	130	85	1578.1	B			0.3719
118	112	70	29	185.7	N		WHITE SIDE	0.3403
119	120	60	75	420.1	N		WHITE SIDE	0.3242
120	130	105	60	1466.9	N		2 WHITE SIDES	0.7463
121	190	115	65	1620.6	B	B	FLAT SIDE	0.4754
122	90	55	70	238.6	B		2 WHITE SIDES	0.2869
123	100	70	50	385.8	Y	G		0.4593
124	109	85	60	318.2	Y	G		0.2385
125	105	110	35	461.4	N			0.4756
126	149	38	60	402.3	B			0.4934
127	145	82	50	933.4	N			0.6542
128	170	100	120	1970.8	Y	G	2 WHITE SIDES	0.4025
129	120	65	55	391.0	Y			0.3798
130	100	65	65	385.8	Y			0.3805
131	75	55	60	288.3	Y	G		0.4854
132	230	90	70	1538.7	N		FLAT WHITE SIDE	0.4425
133	155	150	75	2135.5	Y	G		0.5103
134	95	85	50	324.9	N			0.3353
135	115	60	50	302.5	N		FLAT SIDE	0.3653
136	120	130	45	630.8	B			0.3744
137	105	70	70	520.9	Y			0.4218

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
138	80	70	40	204.8	Y			0.3810
139	120	70	55	463.1	N			0.4177
140	120	65	30	308.1	B			0.5486
141	85	70	75	764.8	N		2 WHITE SIDES	0.7141
142	110	80	80	979.3	N		FLAT SIDE	0.5796
143	110	50	30	202.2	B	G	FLAT SIDE	0.5106
144	90	75	50	316.5	B			0.3907
145	90	50	60	241.8	N		WHITE SIDE	0.3731
146	80	85	80	550.5	N		GRAY FLAT SIDE	0.4216
147	90	65	35	215.4	B		FLAT SIDE	0.4383
148	100	70	50	326.8	Y		WHITE SIDE	0.3890
149	125	60	32	253.4	Y		FLAT WHITE SIDE	0.4399
150	130	110	40	464.4	Y			0.3383
151	110	55	45	286.1	N			0.4379
152	95	70	45	321.8	N		WHITE SIDE/RED SIDE	0.4481
153	90	60	35	181.4	B		WHITE SIDE	0.3999
154	95	70	35	198.2	B			0.3548
155	142	100	50	808.8	N		BLACK/WHITE FLAT SIDE	0.4746
156	130	140	90	1505.6	B	B		0.3830
157	155	90	50	721.4	N		FLAT SIDE	0.4309
158	145	90	80	906.0	B			0.3616
159	190	155	60	2139.0	B	G	WHITE FLAT SIDE	0.5044
160	180	130	60	1195.4	B	G		0.3548
161	185	110	52	1253.8	B			0.4937
162	120	70	40	342.0	B			0.4241
163	220	105	110	3000.4	Y	G		0.4920
164	137	70	25	394.1	B			0.6849
165	135	75	30	361.4	B			0.4957

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
167	70	75	35	242.4	Y			0.5497
168	85	65	40	252.3	B			0.4757
169	140	70	40	342.8	B			0.3644
170	90	80	50	515.5	N		WHITE FLAT SIDE	0.5966
171	95	95	50	433.8	Y			0.4006
172	85	55	22	110.2	Y		WHITE FLAT SIDE	0.4464
173	95	65	35	231.2	Y		WHITE FLAT SIDE	0.4457
174	75	45	60	169.1	N			0.3479
175	60	50	60	203.6	N			0.4713
176	90	60	32	197.5	B			0.4762
177	80	60	35	220.7	B			0.5474
178	150	120	70	1610.9	B	Y		0.5327
179	125	100	35	385.9	Y			0.3675
181	148	80	30	427.9	N		WHITE SIDE	0.5019
182	125	97	55	505.7	Y	B		0.3160
183	125	115	110	1502.2	Y	G		0.3958
184	70	70	15	89.5	R		WHITE FLAT SIDE	0.5074
185	75	40	50	162.5	B		WHITE FLAT SIDE	0.4514
186	65	50	27	122.4	B			0.5812
187	90	80	30	217.2	Y			0.4190
188	110	43	30	174.2	Y	G	WHITE FLAT SIDE	0.5115
189	135	140	80	2387.5	B		WHITE FLAT SIDE	0.6579
190	112	70	30	293.1	B			0.5192
191	85	65	28	181.6	B			0.4892
192	95	75	30	335.4	Y		WHITE FLAT SIDE	0.6538
193	75	60	55	327.2	Y			0.5508
194	75	60	30	150.2	Y			0.4635
195	95	50	32	159.7	Y	G	WHITE FLAT SIDE	0.4377

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
196	120	90	30	422.0	Y		WHITE FLAT SIDE	0.5427
197	75	55	30	159.5	Y		WHITE SIDE	0.5369
198	90	60	55	304.6	B	G	WHITE FLAT SIDE	0.4273
199	65	55	35	130.0	Y			0.4329
200	70	60	60	231.2	B		2 WHITE SIDES/CORNER	0.3823
201	95	70	30	203.3	Y		WHITE FLAT SIDE	0.4246
202	90	85	60	396.0	N		WHITE FLAT SIDE	0.3595
203	130	70	70	701.5	Y		2 WHITE SIDES/CORNER	0.4589
204	105	60	70	400.8	B		2 WHITE SIDES/CORNER	0.3787
205	130	115	50	822.1	Y	G		0.4582
206	150	80	45	493.2	Y		WHITE FLAT SIDE	0.3806
207	90	70	25	184.8	Y			0.4889
208	110	65	30	177.9	Y			0.3456
209	85	55	37	205.6	Y	Y	2 WHITE SIDES/CORNER	0.4953
210	105	100	36	496.7	B			0.5475
211	105	82	50	459.8	Y			0.4450
212	68	43	30	98.4	Y		WHITE FLAT SIDE	0.4674
213	102	85	53	552.1	Y			0.5006
214	170	75	48	521.1	B	G	WHITE SIDE	0.3548
215	73	60	30	152.8	Y	G	WHITE FLAT SIDE	0.4845
216	117	75	35	342.5	B	G	WHITE FLAT SIDE	0.4647
217	115	80	50	504.9	Y			0.4573
218	130	80	33	407.9	W		WHITE FLAT SIDE	0.4952
219	115	85	20	220.1	B		WHITE FLAT SIDE	0.4691
220	82	70	25	156.5	B		2 WHITE SIDES/CORNER	0.4544
221	128	79	75	718.3	Y		WHITE FLAT SIDE	0.3946
222	124	60	28	138.2	Y			0.2764
223	130	75	55	571.5	Y	G	2 WHITE SIDES	0.4441

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CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
224	155	105	28	438.0	B		WHITE FLAT SIDE	0.4005
225	70	74	30	195.5	B		2 WHITE SIDES/CORNER	0.5242
226	57	52	55	104.2	Y		WHITE FLAT SIDE	0.2663
227	95	55	35	232.5	B			0.5297
228	150	125	80	1993.7	R		WHITE FLAT SIDE	0.5538
229	100	65	35	258.2	Y			0.4729
230	70	70	20	91.7	Y			0.3901
230	120	102	40	581.5	N		WHITE FLAT SIDE	0.4949
231	120	95	57	727.7	Y			0.4666
233	70	75	22	125.6	Y			0.4531
234	75	50	53	236.5	Y			0.4958
235	105	65	55	433.7	Y		FLAT SIDE	0.4814
236	74	50	40	137.6	N		WHITE SIDE	0.3874
237	85	54	55	229.8	Y			0.3793
238	95	80	50	333.2	Y			0.3654
239	170	90	60	1109.0	Y			0.5034
240	170	50	75	758.2	Y	G		0.4956
241	147	75	40	380.6	Y			0.3596
242	62	30	50	172.6	N			0.7733
243	115	90	50	562.5	N			0.4529
244	85	65	28	277.5	B			0.7474
245	75	100	35	297.8	Y			0.4727
246	74	55	25	119.4	Y		FLAT WHITE SIDE	0.4889
247	50	50	83	178.7	B	Y		0.3588
248	82	61	25	172.1	B			0.5734
249	115	75	32	363.1	B			0.5482
250	90	40	60	242.4	B			0.4676
251	60	60	65	310.8	N			0.5534

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CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
252	90	75	30	232.8	B			0.4790
253	90	55	35	210.1	N			0.5053
254	92	68	35	201.1	N			0.3827
255	80	45	64	192.0	N			0.3472
256	150	80	45	601.3	W			0.4640
257	80	70	30	147.9	B			0.3668
258	85	75	32	288.3	B			0.5888
259	95	60	25	118.2	B			0.3456
260	115	50	50	266.1	B			0.3857
261	150	120	90	1280.1	N		FROM WING WALL	0.3292
262	75	50	40	256.9	B			0.7136
263	135	60	75	685.5	N			0.4702
264	187	110	110	2021.5	B			0.3723
265	90	90	55	452.6	B			0.4233
266	95	60	65	332.6	B			0.3740
267	100	60	30	278.1	B			0.6437
268	65	65	20	133.2	B		FLAT WHITE SIDE	0.6568
269	65	55	30	126.6	Y		FLAT WHITE SIDE	0.4918
270	200	85	82	1696.5	N		FLAT WHITE SIDE	0.5071
271	112	72	40	398.2	B			0.5144
272	75	60	40	279.1	N			0.6460
273	55	40	50	133.4	B			0.5053
274	170	82	45	776.9	N			0.5160
275	100	60	32	204.9	B		FLAT WHITE SIDE	0.4447
276	105	85	45	356.7	Y	B		0.3701
277	70	32	35	79.0	Y			0.4199
278	45	40	20	35.4	B			0.4097
279	75	50	25	95.5	Y		FLAT WHITE SIDE	0.4242

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CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
280	75	57	30	110.6	B		FLAT WHITE SIDE	0.3592
281	95	55	35	151.3	Y			0.3447
282	110	55	25	198.7	B			0.5474
283	125	90	69	540.6	Y	G	FLAT WHITE SIDE	0.2902
284	70	60	40	162.5	B			0.4030
285	70	70	35	190.2	Y		FLAT WHITE SIDE	0.4621
286	50	60	40	105.3	B			0.3656
287	73	62	25	154.4	Y		FLAT WHITE SIDE	0.5686
288	75	62	33	113.3	Y			0.3076
289	65	50	30	129.5	Y		FLAT WHITE SIDE	0.5534
290	120	115	70	843.1	B			0.3637
291	120	80	35	339.2	Y	G		0.4207
292	95	75	25	220.4	B			0.5156
293	80	65	40	233.4	Y			0.4675
294	97	82	20	258.6	B			0.6773
295	55	55	30	131.5	Y & B		WHITE SIDE	0.6038
296	110	60	72	688.3	N			0.6035
297	72	53	45	219.0	Y			0.5313
298	95	45	35	177.0	B		FLAT WHITE SIDE	0.4929
299	70	50	45	136.4	B		FLAT WHITE SIDE	0.3610
300	100	85	25	239.3	B			0.4691
301	120	65	35	315.7	Y		FLAT WHITE SIDE	0.4818
302	150	102	35	813.2	Y	G		0.6327
303	80	55	32	163.1	B		FLAT WHITE SIDE	0.4827
304	70	40	30	139.6	B			0.6925
305	60	65	23	137.0	Y		FLAT WHITE SIDE	0.6364
306	75	55	30	173.7	Y		FLAT WHITE SIDE	0.5848
307	115	79	15	225.1	N		FLAT WHITE SIDE	0.6883

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CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
308	70	58	33	106.7	B			0.3318
309	100	65	35	223.2	B			0.4088
310	95	85	40	253.0	Y			0.3264
311	135	95	45	593.1	B			0.4282
312	120	90	70	951.6	B		FLAT WHITE SIDE	0.5245
314	130	75	58	469.9	Y			0.3462
315	110	62	50	415.9	Y			0.5082
316	123	80	60	574.4	Y		FLAT WHITE SIDE	0.4054
317	174	130	45	1204.1	Y			0.4929
318	105	105	35	517.3	Y	G		0.5586
319	117	100	60	668.6	B	Y		0.3968
320	90	50	30	170.5	N		WHITE/CORNER	0.5262
400	290	80	100	2223.9	N			0.3994
401	90	80	35	253.4	Y			0.4190
402	90	80	70	448.6	Y			0.3709
403	180	145	110	3010.0	N			0.4368
404	130	65	35	333.9	Y	B	FLAT WHITE SIDE	0.4704
405	115	80	45	734.9	Y			0.7396
406	100	85	45	373.2	Y			0.4065
407	95	95	35	359.3	Y	R		0.4739
408	250	180	80	3855.0	N			0.4462
409	110	125	56	1023.1	N		CORNER NOTCH	0.5536
410	150	100	105	1429.1	B	R		0.3781
411	220	150	75	2438.1	R			0.4105
412	100	75	35	239.3	B	R		0.3798
413	185	80	60	1066.5	B		FLAT WHITE SIDE	0.5004
414	105	70	55	438.8	N			0.4523
417	175	85	48	817.9	B & N	R	FLAT WHITE SIDE	0.4773

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
418	200	165	69	2071.2	B		FLAT WHITE SIDE	0.3790
419	120	75	55	481.9	B			0.4056
420	480	290	93	26082.0	N			0.8395
421	95	80	60	413.3	B		FLAT WHITE SIDE	0.3776
423	90	85	55	415.7	N			0.4117
424	100	90	20	250.0	N			0.5787
425	155	110	50	934.5	Y			0.4567
426	145	72	42	442.0	Y			0.4200
427	115	38	50	188.3	B	B		0.3591
428	75	50	85	514.4	N			0.6724
429	145	80	55	801.4	N			0.5234
430	240	145	55	1740.2	R			0.3788
431	280	150	83	4536.0	N			0.5422
432	135	130	48	911.9	R	R		0.4510
433	100	65	30	183.5	W			0.3921
434	104	55	25	190.6	N			0.5554
435	59	39	48	143.2	N			0.5402
436	85	70	55	319.8	G			0.4072
437	105	50	70	285.0	R			0.3231
600	120	60	50	374.8	B			0.4338
601	135	70	40	468.4	N			0.5163
602	110	80	50	566.1	Y	B		0.5361
603	240	93	90	2245.9	N		CORNER	0.4658
604	160	130	95	4082.0	Y	G	FLAT WHITE SIDE	0.8607
605	130	90	65	746.8	Y		FLAT WHITE SIDE	0.4092
606	120	110	35	518.5	Y			0.4676
607	105	97	45	403.4	B			0.3667
608	170	85	60	621.0	Y			0.2984

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CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
609	125	110	80	1328.6	Y			0.5033
610	110	100	57	565.8	B			0.3760
611	105	110	50	625.6	B	R		0.4514
612	175	130	40	1048.4	B			0.4800
613	150	85	55	752.2	B	B		0.4469
614	140	140	65	1083.6	Y	R		0.3544
615	170	130	90	2493.3	B	B		0.5223
616	200	100	70	1694.9	B			0.5044
617	140	120	85	1207.3	B	R		0.3523
618	145	100	35	322.6	Y			0.2649
619	180	170	105	2158.7	B			0.2799
620	190	105	40	768.3	Y	G		0.4012
621	200	100	100	3298.6	B	R		0.6872
622	130	80	75	1384.9	Y			0.7398
623	160	100	70	1678.9	W	B		0.6246
624	205	105	40	792.5	W	R		0.3835
625	115	110	80	1008.9	B	R		0.4154
626	145	120	52	1219.8	W	R		0.5617
627	165	120	60	1127.4	W	Y		0.3954
628	160	120	60	923.7	B			0.3341
629	130	90	60	571.2	B			0.3390
630	130	105	70	806.2	B			0.3516
631	160	110	50	1547.8	B	R		0.7329
632	110	90	80	758.0	B	R		0.3988
633	105	90	83	650.9	B	B		0.3458
634	125	130	70	948.0	B	R		0.3473
635	100	100	40	426.7	N			0.4445
636	105	70	35	413.0	Y	B		0.6689

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CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
637	125	52	60	481.7	B			0.5146
638	130	110	80	1009.1	Y			0.3675
639	125	95	70	682.7	B			0.3422
640	160	110	60	981.0	Y	R		0.3871
700	150	80	90	1240.3	B		FLAT WHITE SIDE	0.4785
701	130	90	70	614.5	B		WHITE SIDE/CORNER	0.3126
702	100	70	30	262.1	Y	Y		0.5200
703	100	80	40	368.9	B			0.4803
704	95	70	35	274.7	N		FLAT WHITE SIDE	0.4918
705	130	100	70	931.0	Y		FLAT WHITE SIDE	0.4263
706	110	75	75	901.0	R			0.6067
707	105	70	40	448.5	Y			0.6356
708	120	90	50	622.5	Y			0.4803
709	110	50	30	160.9	Y		FLAT WHITE SIDE	0.4063
710	120	100	75	766.9	Y			0.3550
711	100	70	70	422.1	Y			0.3589
712	100	100	50	394.0	N			0.3283
713	130	100	45	596.5	Y		FLAT WHITE SIDE	0.4249
714	130	80	80	1203.0	N		FLAT SIDE	0.6025
715	165	130	50	1093.5	Y			0.4248
716	130	100	32	398.0	R	G		0.3986
717	110	90	50	476.3	W	R		0.4009
718	110	70	55	519.4	Y			0.5110
720	100	95	40	655.0	B			0.7182
721	150	170	65	2104.2	B			0.5290
722	270	200	130	9525.0	N		BLACK STRIPE	0.5653
724	120	80	75	634.9	N		FLAT BLACK SIDE	0.3674
725	125	75	85	741.5	B	G		0.3877

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CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
726	150	90	65	1077.7	N		WHITE CORNER FLAT WHITE SIDE FLAT WHITE SIDE	0.5117
727	125	90	80	776.9	N			0.3597
728	230	180	80	4763.0	N			0.5992
729	190	180	70	2420.6	N			0.4213
731	155	110	50	1168.4	N		G	0.5711
732	130	65	45	425.9	B			0.4667
733	200	100	80	3198.0	B			0.8328
734	120	115	50	900.9	B			0.5440
735	130	100	70	1220.4	Y			0.5588
736	120	120	50	856.9	B			0.4959
737	160	150	85	2406.8	B	G	G	0.4916
738	110	85	40	467.3	B			0.5206
739	185	120	60	1546.9	B			0.4839
740	140	85	45	615.4	W			0.4788
741	170	100	55	1045.0	B		Y	0.4657
742	90	95	45	349.3	R			0.3783
743	165	150	60	1588.6	B		R	0.4457
744	110	75	35	385.1	B			0.5557
745	110	100	100	1596.7	Y	G		0.6048
746	120	70	45	566.2	W			0.6241
747	120	90	45	390.1	B			0.3344
748	125	90	60	812.4	Y			0.5015
749	100	90	45	294.1	W	G		0.3026
750	185	145	50	1886.4	B			0.5860
751	150	75	60	619.7	W		G	0.3825
752	140	100	50	635.4	W			0.3782
753	130	50	40	318.6	W		G	0.5106
754	180	140	90	2456.3	W			0.4513

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CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
755	200	200	75	4082.0	B	Y		0.5669
756	120	115	75	1483.8	B	R		0.5973
757	120	90	55	808.7	B	B		0.5673
758	145	100	60	1248.1	Y	G		0.5977
759	150	90	55	1313.2	B	R		0.7369
760	170	110	100	1713.0	B			0.3817
761	125	120	90	1835.3	B		WHITE SIDE	0.5665
762	150	130	50	818.3	B			0.3497
763	170	110	60	1171.7	B	R		0.4351
764	130	145	90	2569.4	B			0.6311
765	90	120	40	458.4	B & Y	Y		0.4421
766	115	55	40	381.8	Y			0.6288
767	165	85	85	1502.6	N		BLACK & WHITE SIDE	0.5252
768	100	65	50	402.3	B			0.5158
769	110	100	25	368.5	Y			0.5583
770	110	90	30	419.9	B	Y G		0.5891
771	135	105	30	565.1	Y	G		0.5537
772	110	95	85	944.6	B			0.4431
773	160	105	100	2214.2	B	G	WHITE SIDE	0.5492
1001	120	70	30	359.1	B			0.5938
1002	90	80	30	429.7	E			0.8289
1003	105	100	25	371.2	B	Y		0.5892
1004	150	130	60	1429.8	B			0.5092
1005	180	150	80	4763.0	N	G		0.9188
1006	120	140	45	1056.0	B			0.5820
1007	105	70	25	235.5	B			0.5340
1008	130	110	50	623.9	B			0.3636
1009	110	65	25	311.3	B			0.7256

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
1010	135	100	40	766.8	N			0.5917
1011	170	120	80	2373.0	B			0.6059
1012	110	100	70	653.2	B			0.3535
1013	105	90	90	839.9	B	Y		0.4115
1014	110	65	25	314.3	B	Y		0.7326
1015	190	100	120	2817.6	B	Y		0.5149
1016	170	150	60	1937.4	R	Y		0.5276
1017	100	100	55	435.2	B	Y		0.3297
1018	80	90	30	213.8	R	B		0.4124
1019	100	60	40	307.3	B	Y		0.5335
1020	120	110	50	583.9	B	B		0.3686
1021	90	50	60	264.3	R			0.4079
1022	160	90	25	441.0	W			0.5104
1023	100	65	45	311.6	B	Y		0.4439
1024	140	90	60	687.7	W			0.3790
1025	100	100	80	1028.4	W			0.5356
1026	140	110	65	1448.0	B			0.6027
1027	90	90	25	212.1	B	Y		0.4364
1029	130	90	50	759.5	B	B		0.5410
1030	110	110	135	1372.5	B			0.3501
1031	140	100	50	793.3	B			0.4722
1032	100	90	60	643.6	R	G & Y		0.4966
1033	210	120	100	3573.2	Y	R		0.5908
1034	150	80	40	581.9	W	G		0.5051
1035	230	100	100	2787.1	B	B		0.5049
1036	190	110	55	1177.7	B			0.4269
1037	160	110	75	1543.1	W	G		0.4871
1038	135	100	40	494.8	B			0.3818

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
1039	150	110	40	836.6	R	B		0.5282
1040	115	95	50	522.8	W			0.3988
1041	90	60	25	173.7	B			0.5361
1042	100	75	20	194.7	B			0.5408
1043	110	100	65	541.9	B			0.3158
1044	160	60	40	393.1	R	Y		0.4265
1045	130	120	50	807.3	B			0.4313
1046	70	45	75	472.3	B			0.8330
1047	280	120	100	5216.0	B	Y		0.6468
1048	130	60	35	257.8	B	B		0.3935
1049	105	70	30	266.6	B	B		0.5038
1050	95	70	40	323.2	B			0.5063
1051	90	65	65	305.2	B	B		0.3344
1052	80	70	50	296.8	B	R		0.4417
1053	150	105	50	729.2	Y	B		0.3858
1054	170	50	30	335.9	N		FLAT WHITE SIDE	0.5489
1055	250	210	150	7031.0	Y	B & G		0.3720
1056	80	75	50	329.0	N	R	FLAT WHITE SIDE	0.4569
1057	180	130	60	1859.6	N		WHITE SIDE	0.5519
1058	140	110	60	992.7	N		WHITE SIDE	0.4476
1059	140	70	90	1413.2	N		FLAT WHITE SIDE	0.6676
1060	100	90	50	931.6	N			0.8626
1061	160	105	90	2145.1	Y			0.5911
1062	260	100	65	2280.9	N			0.5624
1063	200	80	45	1000.8	N		PART OF WING WALL	0.5792
1064	140	85	50	734.5	Y	B		0.5144
1065	215	250	80	4990.0	N			0.4835
1066	160	140	70	1592.0	Y	Y		0.4230

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
1067	180	120	150	3629.0	W	G		0.4667
1068	100	80	45	609.6	W			0.7056
1069	140	80	35	573.1	B	R		0.6092
1070	140	90	50	637.2	B	R		0.4214
1071	140	80	50	564.0	N			0.4196
1072	140	110	50	1050.9	Y	G		0.5687
1073	115	100	40	524.0	N		FLAT BLACK SIDE	0.4746
1074	180	130	80	2247.3	B	Y		0.5002
1075	160	60	70	1252.6	Y	B		0.7767
1076	140	110	40	791.1	N			0.5351
1077	130	105	80	912.3	W			0.3481
1078	125	85	40	597.7	N			0.5860
1079	170	90	30	566.7	B	Y		0.5144
1080	120	100	75	1701.1	Y			0.7875
1081	135	120	55	1132.1	N			0.5294
1082	120	80	55	521.6	W			0.4116
1083	110	65	35	456.7	N			0.7604
1084	115	85	20	335.0	B			0.7140
1085	150	80	70	847.9	R			0.4206
1086	190	80	95	2006.0	R			0.5788
1087	155	100	90	1571.2	R			0.4693
1088	105	60	40	353.4	Y	Y	FLAT WHITE SIDE	0.5843
1089	110	55	60	288.9	B	G		0.3316
1090	105	105	45	544.9	B			0.4576
1091	90	60	30	224.6	Y	Y	FLAT WHITE SIDE	0.5777
1092	155	90	30	546.4	B	Y		0.5440
1093	165	105	40	731.9	R			0.4401
1094	140	80	50	825.5	R	G		0.6142

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CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
1095	165	95	80	1063.8	R			0.3535
1096	145	130	45	960.5	W	Y		0.4718
1097	135	100	150	1596.9	W	G		0.3286
1098	165	100	60	899.7	R	G		0.3787
1099	170	110	65	1003.7	R			0.3441
1100	110	90	40	402.4	Y	G	FLAT WHITE SIDE	0.4234
1101	70	70	85	663.3	N			0.6636
1102	100	80	50	376.5	W			0.3922
1103	100	90	50	738.5	Y	B		0.6838
1104	150	110	60	1167.1	Y	B		0.4912
1105	130	75	30	418.8	Y	B		0.5966
1106	110	10	55	363.2	B	Y & G		0.6253
1107	110	50	40	357.0	B	Y		0.6761
1108	125	70	70	880.1	Y			0.5987
1109	210	180	80	4763.0	Y	B		0.6563
1110	160	125	80	1414.5	R			0.3684
1111	120	60	55	546.4	B	B & Y		0.5749
1112	150	135	115	3325.6	B	Y		0.5950
1113	95	90	60	550.7	Y	B		0.4473
1114	150	105	60	1421.5	Y	Y		0.6268
1115	200	160	80	4763.0	Y	Y		0.7752
1116	140	80	70	1154.5	W			0.6136
1117	145	75	60	878.9	R			0.5612
1118	130	85	50	820.0	Y			0.6184
1119	110	80	60	422.5	W			0.3334
1120	130	90	40	513.0	N	G	WHITE SIDE	0.4567
1121	150	90	65	1080.3	N			0.5130
1122	140	90	110	1574.1	Y	G		0.4732

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
1123	130	100	70	1291.7	Y	G		0.5914
1124	150	130	50	1064.4	W			0.4549
1125	100	90	60	515.6	Y	R		0.3978
1126	135	75	45	673.8	N			0.6162
1127	150	110	110	2205.8	Y	Y		0.5064
1128	150	80	80	1455.3	Y	Y		0.6316
1129	110	95	40	737.8	N			0.7354
1130	180	160	90	2412.1	W	G		0.3877
1131	120	110	100	1452.6	W			0.4585
1132	90	100	60	634.0	B	G & Y		0.4892
1133	150	110	80	1894.3	Y	G		0.5979
1134	100	100	60	709.3	Y	G		0.4926
1135	130	70	35	416.6	R	G		0.5450
1136	125	70	40	369.5	B			0.4399
1137	145	110	55	998.4	Y	G		0.4742
1138	160	130	60	1588.2	B			0.5302
1139	90	90	40	482.7	B	B		0.6208
1140	120	110	60	933.5	Y			0.4911
1141	120	70	45	510.2	W	G		0.5624
1142	270	130	110	6124.0	B	G		0.6609
1143	95	70	40	263.4	B	R		0.4126
1144	140	60	30	317.1	B	Y		0.5243
1145	150	140	55	1807.7	B	Y		0.6521
1146	140	95	45	843.5	B	G		0.5872
1147	75	70	55	453.3	B			0.6541
1148	140	140	60	1200.0	Y			0.4252
1149	180	120	60	1787.8	B	G		0.5748
1150	140	90	30	676.5	B	G		0.7457

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CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
1151	150	40	45	147.0	B	G		0.2268
1152	140	70	50	497.1	B	G		0.4227
1153	135	75	60	587.2	B	Y		0.4027
1154	105	80	37	350.7	B	H		0.4702
1155	100	70	40	376.3	B			0.5600
1156	95	55	40	293.0	B			0.5841
1157	100	50	40	222.2	B	G		0.4629
1158	100	60	30	311.7	B			0.7215
1159	80	65	60	362.8	B	B		0.4845
1160	190	105	30	890.6	B	Y		0.6200
1161	145	90	30	536.2	B	Y		0.5707
1162	160	65	60	618.4	Y	G		0.4129
1163	195	60	30	407.7	B	Y		0.4840
1164	140	90	40	566.9	Y	G		0.4687
1165	95	60	50	309.4	B	Y & G		0.4523
1166	105	75	40	312.5	Y	B		0.4134
1167	100	60	50	417.0	B	G		0.5791
1168	120	50	70	285.7	B			0.2834
1169	150	60	45	550.7	B	G		0.5666
1170	130	65	90	539.7	B	Y		0.2957
1171	110	60	45	428.5	B	G		0.6012
1172	100	85	30	257.1	R		WHITE STRIPE FLAT WHITE SIDE	0.4201
1173	160	130	40	813.1	B			0.4072
1174	130	135	30	595.6	B			0.4714
1175	130	60	65	469.1	B	Y		0.3855
1176	210	180	70	2730.8	N	G		0.4300
1177	160	130	30	756.8	B	Y	WHITE SIDE	0.5053
1178	110	90	30	537.8	Y	B		0.7545

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CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
1179	120	55	45	428.9	B	B		0.6017
1180	100	90	45	529.4	B	G		0.5447
1181	105	95	30	322.7	B			0.4493
1182	110	55	35	252.5	W			0.4969
1183	120	100	30	383.0	W			0.4433
1184	150	130	40	1364.4	B	G		0.7288
1185	115	110	40	558.4	B	G		0.4598
1186	155	100	40	907.1	W			0.6096
1188	150	60	90	735.1	R			0.3781
1189	85	60	15	76.5	N		WHITE CORNER	0.4167
1190	90	70	35	364.4	W		WHITE SIDE	0.6886
1191	80	40	30	113.7	Y		WHITE SIDE	0.4935
1192	90	75	100	893.9	N		WHITE SIDE	0.5518
1193	70	85	25	106.8	N		WHITE SIDE	0.2992
1194	60	45	25	68.7	Y		WHITE SIDE	0.4241
1195	200	90	60	1102.7	B	G		0.4254
1196	80	50	35	182.4	B	G		0.5429
1197	90	45	35	161.5	N		WHITE SIDE	0.4747
1198	60	60	40	217.6	N		WHITE/CORNER	0.6296
1199	100	70	50	387.1	N		WHITE/CORNER	0.4608
1200	90	70	45	339.1	Y	G		0.4984
1201	165	60	70	884.1	N			0.5316
1202	75	35	20	61.0	B			0.4841
1203	120	70	30	320.8	R		WHITE/CORNER	0.5304
1204	65	65	45	251.7	B		WHITE/CORNER	0.5516
1205	80	65	40	261.5	B		WHITE/CORNER	0.5238
1206	75	70	50	218.9	B		WHITE/CORNER	0.3475
1207	80	70	70	439.9	Y	G	WHITE/CORNER	0.4676

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CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
1208	75	50	50	196.5	Y		WHITE/CORNER	0.4367
1209	65	60	15	54.7	N		BLACK & WHITE SIDE	0.3896
1210	170	90	70	688.5	B	G		0.2679
1211	110	80	70	918.2	B	G		0.6211
1212	120	100	50	720.9	Y		WHITE SIDE	0.5006
1213	60	60	40	213.6	B			0.6181
1214	70	50	50	174.7	B			0.4160
1215	140	70	55	567.1	N			0.4384
1216	50	40	25	52.2	Y		WHITE SIDE	0.4350
1217	65	65	25	159.9	Y		WHITE SIDE	0.6308
1218	60	40	30	62.7	B			0.3628
1219	165	130	80	1541.6	B		WHITE SIDE	0.3743
1220	70	50	50	124.8	R		FLAT WHITE SIDE	0.2971
1221	95	70	35	284.7	B			0.5097
1222	100	60	30	283.8	B			0.6569
1223	90	60	25	137.0	E			0.4228
1224	110	90	30	431.4	B	Y		0.6052
1225	80	40	25	95.1	B			0.4953
1226	110	40	35	161.6	B			0.4372
1227	95	45	20	131.0	B	Y		0.6384
1228	60	50	30	136.2	B			0.6306
1229	140	100	100	702.5	N			0.2091
1230	130	80	80	617.3	W			0.3091
1231	70	60	45	235.3	R			0.5187
1232	120	70	40	400.9	Y	Y		0.4971
1233	110	75	40	344.5	B	G		0.4350
1234	90	60	30	211.0	B			0.5427
1235	75	70	35	200.8	B	Y		0.4553

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CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
1236	100	60	45	250.8	B	Y & G		0.3870
1237	100	80	20	187.9	Y	R		0.4893
1238	85	90	35	317.1	B	Y		0.4935
1239	100	75	30	293.8	B	Y		0.5441
1240	105	75	45	493.9	B	G		0.5807
1241	125	100	30	605.3	B	G		0.6726
1242	90	90	45	581.4	B	G		0.6646
1243	180	110	85	1899.6	Y	Y		0.4703
1244	130	90	50	533.7	Y	B		0.3801
1245	100	70	35	283.3	B	G		0.4818
1246	130	115	60	783.0	W	R		0.3637
1247	150	140	100	2661.0	B	G		0.5280
1248	90	80	40	289.3	B			0.4185
1249	120	75	35	580.7	B	G		0.7681
1250	80	90	40	350.7	W			0.5074
1251	200	120	60	1801.7	B	G		0.5213
1252	115	115	30	678.1	B			0.7121
1253	120	90	50	623.9	B	B		0.4814
1254	160	100	35	837.0	B	G		0.6228
1255	160	130	90	3233.7	W			0.7198
1256	120	90	40	402.3	W			0.3880
1257	150	120	90	2322.0	B	Y & B		0.5972
1258	140	75	40	612.9	B	G		0.6080
1259	170	140	80	2788.2	W	R		0.6102
1260	130	110	25	588.4	B	G		0.6858
1261	160	55	40	497.0	Y	R		0.5883
1262	110	90	50	916.3	G	G		0.7713
1263	130	80	30	485.6	B	R		0.6485

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
1264	130	60	25	378.8	B			0.8094
1265	140	140	40	1478.7	Y			0.7859
1266	170	90	25	627.4	G	G		0.6834
1267	140	80	75	1755.8	B			0.8709
1268	170	140	40	476.7	B	R		0.2086
1269	155	70	45	811.6	B	R		0.6926
1270	125	115	40	1026.4	B	G		0.7438
1271	130	100	50	889.7	B	Y		0.5703
1272	100	100	50	724.9	N			0.6041
1273	100	85	40	379.2	B			0.4647
1274	170	120	70	1695.2	B	Y		0.4946
1275	155	100	70	1231.5	B	Y		0.4729
1276	130	95	45	607.8	R	G		0.4557
1277	150	120	50	1334.9	W	Y		0.6180
1278	90	60	40	220.9	B			0.4261
1279	130	85	60	1159.7	W			0.7288
1280	100	75	40	364.3	Y			0.5060
1281	85	70	40	409.6	B	Y & G		0.7171
1282	105	60	40	347.9	B	R		0.5752
1283	100	70	40	237.8	B	B		0.3539
1284	120	60	50	369.3	B	G		0.4274
1285	80	70	45	383.0	B	G		0.6333
1286	100	80	30	318.6	W	R		0.5531
1287	90	40	40	254.2	B	G		0.7355
1288	100	60	40	274.5	B	R		0.4766
1289	200	100	70	2178.6	B	G & Y	WHITE CORNER	0.6484
1290	95	60	50	463.9	B	G		0.6782
1291	90	75	30	327.2	Y		FLAT WHITE SIDE	0.6733

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
1292	110	60	50	309.5	B		FLAT WHITE SIDE	0.3908
1293	110	55	45	311.7	Y	G		0.4770
1294	60	65	35	130.0	B	G		0.3968
1295	90	75	20	196.2	R			0.6056
1296	90	70	40	166.8	B	Y		0.2758
1297	180	110	60	1100.9	B			0.3861
1298	80	45	25	70.6	B			0.3269
1299	75	50	35	157.4	B	Y		0.4997
1300	130	80	50	602.5	B			0.4828
1301	95	95	35	312.0	W			0.4116
1302	130	70	60	892.3	B			0.6809
1303	150	130	60	1621.8	B			0.5776
1304	125	75	60	648.4	R	Y		0.4803
1305	90	60	25	210.2	B	Y		0.6488
1306	90	50	30	257.4	B	Y		0.7944
1307	70	40	25	63.0	B			0.3750
1308	100	80	40	301.3	Y		REBAR STILL ATTACHED CORNER	0.3923
1309	200	80	40	788.1	B	B & Y		0.5131
1310	120	100	60	724.3	Y	G		0.4192
1311	100	55	70	563.9	N			0.6103
1312	165	110	75	1969.9	Y	R		0.6030
1313	100	100	30	547.6	B			0.7606
1314	105	80	70	838.6	N			0.5942
1315	95	50	40	289.6	B			0.6351
1316	130	80	40	430.5	B			0.4312
1317	130	105	100	2069.9	Y	B		0.6318
1318	140	110	40	1271.5	Y			0.8601
1319	110	90	30	475.6	B			0.6672

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
1320	120	120	50	1209.1	B	R	WHITE SIDE	0.6997
1321	120	70	30	348.9	B	R		0.5769
1322	110	80	50	521.5	B			0.4938
1323	95	95	55	755.2	N			0.6339
1324	150	100	65	1314.6	B			0.5618
1325	100	80	40	719.7	B			0.9371
1326	155	155	70	1761.3	W	G		0.4364
1327	140	80	60	907.0	R			0.5624
1328	90	80	50	524.4	R			0.6069
1328	80	90	40	477.8	B	Y		0.6913
1330	100	70	30	259.5	B	Y	FLAT WHITE SIDE	0.5149
1331	100	115	50	513.0	Y			0.3717
1332	90	60	40	221.1	B			0.4264
1333	160	65	40	591.7	B	G		0.5926
1334	110	65	25	156.0	B	B		0.3636
1335	170	110	40	1210.0	B	Y		0.6740
1336	140	140	130	3856.0	B			0.6306
1337	105	75	35	207.5	B			0.3137
1338	140	50	20	244.3	B			0.7271
1339	130	100	50	752.3	R			0.4822
1340	90	65	60	599.4	B			0.7115
1341	75	70	25	138.9	R			0.4410
1342	105	60	70	500.9	B	R		0.4733
1343	100	70	30	351.0	Y			0.6964
1344	100	80	25	229.6	R			0.4783
1345	100	85	50	563.3	Y	R		0.5523
1346	80	60	60	286.4	B	R		0.4144
1347	160	50	30	380.7	B			0.6609

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
1348	100	50	25	188.1	B			0.6270
1349	90	80	40	281.2	B			0.4068
1350	110	110	30	473.7	W			0.5437
1351	170	90	35	534.6	B			0.4160
1352	120	50	50	467.8	B			0.6497
1353	110	90	50	382.8	Y	G		0.3222
1354	150	85	40	511.8	W			0.4181
1355	160	70	35	320.4	W			0.3406
1356	100	65	35	183.1	N			0.3353
1357	140	75	35	325.0	B	B		0.3685
1358	160	90	30	823.9	B	R		0.7947
1359	130	55	30	272.0	B	B & Y		0.5284
1360	120	80	45	423.8	W	G		0.4088
1361	70	65	40	211.3	Y	G		0.4837
1362	110	70	65	738.2	N		FLAT WHITE SIDE	0.6146
1363	105	80	30	164.9	B	B		0.2727
1364	230	130	110	2930.3	W	R		0.3712
1365	230	80	80	2045.2	N			0.5789
1366	95	90	35	387.3	Y			0.5393
1367	100	70	30	201.5	R	R		0.3998
1368	60	60	35	139.8	B	Y		0.4623
1369	130	105	50	922.7	B	Y		0.5633
1370	80	50	35	146.5	B	Y		0.4360
1371	60	35	30	73.8	B	B		0.4883
1372	55	35	35	59.0	B			0.3650
1373	50	35	25	54.4	B	B		0.5181
1374	40	30	20	23.0	B		WHITE SIDE	0.3993
1375	40	35	20	23.9	R			0.3551

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
1376	80	40	35	107.1	R	R		0.3984
1377	95	35	35	99.7	R & B			0.3570
1378	105	85	45	600.3	B	R		0.6228
1379	100	50	40	359.7	Y	R	WHITE FLAT SIDE	0.7494
1381	140	110	90	1100.3	Y & B		CORNER	0.3308
1382	105	50	70	392.3	Y		WHITE SIDE	0.4448
1383	170	130	100	2235.3	Y			0.4214
1384	130	110	40	996.3	Y			0.7257
1386	190	135	35	1100.9	N			0.5110
1387	85	50	70	463.6	N			0.6493
1388	140	110	55	904.9	Y	B		0.4451
1389	150	60	35	521.1	N			0.6893
1391	160	120	35	1469.3	R	R		0.9110
1392	100	120	55	544.0	B		WHITE SIDE	0.3434
1393	160	130	85	1519.5	B	R		0.3581
1394	190	85	40	880.9	N		CORNER	0.5682
1396	160	90	55	889.1	N			0.4678
1397	85	70	35	276.7	N		WHITE SIDE	0.5536
1400	200	100	60	1623.7	N			0.5638
1401	110	65	45	355.8	Y		WHITE SIDE	0.4608
1402	185	170	50	2806.6	N		PART OF WING WALL	0.7437
1404	220	100	50	1432.4	N			0.5426
1405	100	85	30	445.3	B			0.7276
1407	150	90	90	1354.7	Y			0.4646
1408	130	100	50	771.3	N	R		0.4944
1410	130	65	65	757.4	N		CORNER	0.5746
1411	130	100	80	1182.1	N		WHITE SIDE	0.4736
1412	75	45	40	193.4	B			0.5969

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
IDENTIFICATION

I.D. MARK	DIMENSIONS			WEIGHT (gm)	COLOR		OTHER IDENTIFYING MARKS	SHAPE FACTOR
	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)		CONCRETE	BEAD		
1413	100	70	80	491.8	B	R		0.3659
1414	100	80	60	640.1	Y			0.5556
1415	80	70	35	341.8	R	R		0.7266
1416	130	100	50	666.0	R	R		0.4269
1417	140	140	30	712.9	R			0.5052
1418	140	65	50	401.6	Y	Y		0.3678
1419	90	85	35	429.1	R			0.6678
1420	110	80	35	372.3	B			0.5037
1421	170	150	90	2254.4	Y	G & Y		0.4093
1422	110	110	85	1081.7	B	R		0.4382
1423	130	80	60	702.4	Y	G		0.4690
1424	190	110	110	3298.1	B	R		0.5977
								0.4930

3.4 SORTED BY WEIGHT

The weight and location information of each piece of PAS-4 debris collected in the circular collection area was first combined into a single database. The database was then sorted by weight from lightest to heaviest.

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1374	23.0	42264	117057	122306	106.85
1375	23.9	36592	103790	107976	106.01
278	35.4	-44627	-32110	60643	328.03
1216	52.2	-132349	-53472	149086	338.98
1373	54.4	40324	126527	130889	104.83
1209	54.7	-166444	-52491	181038	343.15
1372	59.0	39174	129410	133393	104.04
1202	61.0	-187572	31398	196910	9.18
1218	62.7	-106483	-58073	127317	332.86
1307	63.0	-22230	107231	111096	74.84
1194	68.7	-136812	3676	143677	1.47
1298	70.6	-39233	117277	125994	68.56
1371	73.8	35625	130292	133439	102.47
1189	76.5	-97988	7869	105101	4.29
277	79.0	-43788	-33248	60551	325.42
184	89.5	-29241	-5592	36490	351.19
230	91.7	-39221	-17878	49389	338.78
1225	95.1	-30869	-130888	136206	286.06
279	95.5	-40117	-29296	55328	328.03
212	98.4	-48436	-7502	55761	352.27
1377	99.7	32414	98529	101799	104.56
226	104.2	-47199	-10714	55069	348.78
286	105.3	-45654	-27599	59288	332.26
308	106.7	-46408	-19229	56593	340.14
1193	106.8	-126949	17089	134854	7.28
1376	107.1	41179	101835	107476	108.65
172	110.2	-19546	-11024	28576	336.54
280	110.6	-41594	-29854	56877	328.34
288	113.3	-46626	-28736	60680	331.73
1191	113.7	-87815	61124	112657	32.86
259	118.2	-32917	-33150	51747	320.16
246	119.4	-32002	-23431	45344	328.89
186	122.4	-28918	-10126	37143	344.18
1220	124.8	-51675	-113333	127538	297.30
233	125.6	-40618	-16878	50349	340.41
269	126.6	-49878	-53803	78162	325.14
289	129.5	-47142	-26300	60028	334.02
199	130.0	-34665	-7370	42133	349.93
1294	130.0	-21090	99716	103548	74.36
1227	131.0	-30709	-133742	138907	285.67
295	131.5	-56570	-31148	70628	333.83

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
268	133.2	-46720	-37294	65247	321.26
273	133.4	-59332	-46879	81077	320.29
1228	136.2	-30855	-147497	152232	284.33
299	136.4	-52423	-29541	66198	333.50
1223	137.0	-27469	-111981	117113	287.02
305	137.0	-31627	-31379	49625	320.78
236	137.6	-37060	-18546	47637	337.09
222	138.2	-47027	-16065	56190	343.39
1341	138.9	38628	53418	62172	120.77
112	139.0	-22701	-5552	30036	348.47
304	139.6	-30784	-32028	49394	319.58
1368	139.8	17119	37673	39056	105.29
435	143.2	86578	16475	81444	168.33
1370	146.5	34484	130286	133191	101.99
1151	147.0	-11384	57816	60613	72.52
257	147.9	-31495	-27834	47356	324.00
194	150.2	-30732	-11577	39294	342.86
281	151.3	-43343	-28942	57912	330.02
215	152.8	-56921	-3102	63815	357.21
287	154.4	-45553	-28661	59700	331.31
1334	156.0	26908	75961	78573	104.81
220	156.5	-49686	-15324	58545	344.83
1299	157.4	-29341	127987	132997	74.22
197	159.5	-34061	-11070	42352	344.85
195	159.7	-31630	-13063	40607	341.23
1217	159.9	-141016	-75073	165803	333.08
709	160.9	3726	-29694	29855	275.94
1197	161.5	-134725	11718	142027	4.73
1226	161.6	-30687	-131289	136541	285.94
185	162.5	-28291	-8172	36047	346.90
284	162.5	-47140	-29013	61264	331.73
303	163.1	-56993	-23895	68138	339.47
1363	164.9	19441	18635	22508	124.11
1296	166.8	-28536	104310	110139	71.28
174	169.1	-20465	-9662	28943	341.06
320	170.5	-52607	-17069	61827	343.97
248	172.1	-25606	-23834	40242	323.68
242	172.6	-34679	-19910	46026	334.37
306	173.7	-34846	-32355	52751	322.17
1041	173.7	13585	-157077	157223	267.53
188	174.2	-26208	-13043	35509	338.45

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1214	174.7	-112388	-32978	123684	344.54
72	176.9	-48124	38787	67254	35.14
298	177.0	-55685	-33140	70745	332.07
70	177.4	-68494	51336	91145	35.77
208	177.9	-42281	-4738	49327	354.49
110	178.5	-20276	-1030	27114	354.53
247	178.7	-28061	-25266	43069	324.08
153	181.4	-23125	-14520	33278	335.90
191	181.6	-31074	-22743	44193	329.03
1196	182.4	-139462	8718	146540	3.41
1356	183.1	11077	41052	41273	95.92
433	183.5	81101	35371	82274	154.54
207	184.8	-41390	-4580	48425	354.57
118	185.7	-17968	-13532	28239	333.53
1237	187.9	-9504	53481	55916	73.03
1348	188.1	19452	63917	65154	101.18
427	188.3	71136	49902	81406	142.19
285	190.2	-46698	-27465	60152	332.83
434	190.6	89481	21833	85498	165.21
255	192.0	-23876	-25624	39984	320.14
1412	193.4	10221	48000	48120	94.06
1042	194.7	27808	-171359	172640	263.02
67	195.0	-41549	20917	52696	20.38
225	195.5	-46418	-11213	54404	348.11
1295	196.2	-24778	100239	105101	72.50
1208	196.5	-200207	-98429	229233	334.57
176	197.5	-21672	-11107	30579	342.73
154	198.2	-23836	-13715	33582	350.28
282	198.7	-45267	-30698	60458	329.49
38	199.8	-15959	2394	22903	6.00
1235	200.8	-7338	52159	54046	74.82
254	201.1	-25023	-27000	41748	319.70
1367	201.5	17542	37611	39110	105.91
143	202.2	-22806	-27789	40618	314.85
201	203.3	-33943	-3458	40907	355.15
175	203.6	-21063	-9569	29478	338.70
105	203.8	-7084	-14128	19821	335.13
138	204.8	-20689	-25735	37669	319.09
275	204.9	-56692	-33029	71585	326.45
209	205.6	-42464	-5649	49605	353.46
102	207.4	-6349	-11627	17566	317.78

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1337	207.5	18718	82768	83619	98.18
52	208.6	-32809	17842	43459	13.46
253	210.1	-24310	-29262	42723	316.77
1305	210.2	-25587	112299	116881	73.90
111	210.9	-22644	-2819	29597	349.35
1234	211.0	-4443	55440	56572	78.52
69	211.2	-65184	31736	78686	34.28
31	211.3	-34068	13694	43118	18.52
1361	211.3	12702	26551	27195	102.50
1027	212.1	-4139	-107878	108433	275.80
74	212.7	-36950	18741	47612	325.61
1213	213.6	-105322	-33911	117156	343.17
1018	213.8	-16406	-122095	124284	280.77
108	214.5	-17992	-4955	25300	353.09
147	215.4	-26663	-24443	41454	328.53
32	215.7	-28812	16116	39105	24.34
71	216.3	-51589	42071	71982	35.22
113	217.2	-23995	-6284	31447	349.51
187	217.2	-29752	-9150	37698	345.95
55	217.5	-68028	38163	84014	29.54
1198	217.6	-142684	14317	150186	5.47
1206	218.9	-211299	-102602	241044	334.81
297	219.0	-60572	-38430	77578	330.31
219	220.1	-53564	-12376	61637	348.42
292	220.4	-52537	-25362	64547	336.86
177	220.7	-24898	-9860	33214	343.68
1278	220.9	-5376	158778	159245	85.61
1332	221.1	30069	67492	71385	109.01
51	221.6	-20971	8485	29055	24.24
1157	222.2	-19718	53502	59721	63.62
309	223.2	-46650	-18627	56619	340.79
1091	224.6	-14977	37780	43616	60.02
307	225.1	-46685	-21614	57704	338.00
1344	229.6	25478	43317	47165	113.31
237	229.8	-37538	-15713	47057	340.49
173	231.2	-18584	-11023	27690	340.50
200	231.2	-33922	-3410	40882	355.22
227	232.5	-47873	-11230	55832	348.40
252	232.8	-18582	-28719	38340	311.49
293	233.4	-51814	-23786	63273	337.92
1231	235.3	-28841	-158744	162699	282.66

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
10	235.3	-21724	20686	35250	35.93
1007	235.5	-25795	-80258	86631	292.11
234	236.5	-40863	-18817	51259	338.46
1283	237.8	-15912	53686	58300	67.05
122	238.6	-20066	-13113	29912	340.17
300	239.3	-62503	-27171	74456	338.60
412	239.3	73097	16794	68374	165.78
145	241.8	-27032	-28514	44259	316.00
250	242.4	-21461	-31119	42049	312.26
167	242.4	-15590	-17268	28289	327.61
1338	244.3	21096	83978	85183	99.65
47	245.4	-6306	9344	16111	26.38
54	247.6	-55338	31909	69868	27.02
63	247.9	-97442	-2722	104296	20.00
424	250.0	52919	7468	46702	170.80
1236	250.8	-8480	53855	55985	74.14
1204	251.7	-228723	-97333	254859	337.55
168	252.3	-14226	-13350	24921	333.28
1182	252.5	-8240	60439	62287	76.01
310	253.0	-45445	-21673	56579	337.48
401	253.4	22882	11988	20045	143.27
149	253.4	-24349	-18929	36465	328.76
109	253.9	-19186	-3153	26194	357.82
1287	254.2	-23888	54236	62325	60.48
262	256.9	-39161	-48153	66580	313.68
1172	257.1	-6906	49721	51580	74.57
1306	257.4	-25562	107392	112167	73.22
1048	257.8	29014	-107297	109569	258.31
229	258.2	-43812	-18347	53852	340.08
294	258.6	-54841	-28605	67971	335.11
1330	259.5	22166	60996	62897	104.12
73	259.8	-39184	32378	56254	23.18
1205	261.5	-244157	-113661	275512	335.64
702	262.1	-4299	-29306	31344	290.77
68	262.6	-64053	26330	75604	23.79
1143	263.4	-6258	44284	46174	73.55
1021	264.3	-7281	-116121	116974	276.92
260	266.1	-39619	-41271	62126	318.37
1049	266.6	23959	-102666	104087	260.52
1359	272.0	9161	32667	32751	94.10
62	273.3	-56061	37751	73342	358.50

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1288	274.5	-31082	54375	66280	55.12
704	274.7	993	-20314	21132	286.00
114	275.7	-25776	-6036	33148	329.14
1397	276.7	85027	-12713	79235	189.23
50	277.1	-19294	4653	26523	16.98
244	277.5	-30877	-25358	45431	326.07
267	278.1	-37830	-35819	57240	321.26
272	279.1	-65879	-60378	94500	320.80
1349	281.2	20478	55580	57234	103.81
1245	283.3	-32075	58944	70619	56.58
1222	283.8	-28401	-111150	116596	287.58
1221	284.7	-45463	-129477	139634	291.99
437	285.0	69505	13442	64112	167.90
48	285.2	-6483	6598	14847	19.94
1168	285.7	-11178	49765	52919	70.12
151	286.1	-20782	-17790	32836	334.24
1346	286.4	19782	66494	67746	101.03
258	288.3	-32325	-29038	48738	323.43
131	288.3	-20664	-23212	35973	320.17
1089	288.9	-18155	40056	47203	58.06
1248	289.3	-18923	62695	67774	67.68
1315	289.6	11042	30661	30951	97.84
1156	293.0	-19768	54089	60270	63.83
190	293.1	-27882	-13219	37132	339.15
1239	293.8	-13187	51374	55132	68.72
749	294.1	3983	-48169	48252	273.37
1052	296.8	18242	-76266	77117	261.48
245	297.8	-31268	-24129	45086	327.64
1308	301.3	-16785	101819	104519	76.95
135	302.5	-18422	-26678	36726	313.52
43	304.1	-8284	10342	18304	35.73
198	304.6	-35222	-11853	43679	344.25
1051	305.2	12792	-80753	80974	265.77
1019	307.3	-8927	-117184	118237	277.65
140	308.1	-22412	-24026	37837	322.11
9	308.4	-20359	19678	33553	35.91
1165	309.4	-19347	39501	47381	56.48
1292	309.5	-16564	68772	72638	71.22
251	310.8	-22202	-33189	44087	311.17
1009	311.3	-23746	-93506	98374	288.10
53	311.6	-38486	10844	46583	27.17

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1023	311.6	-17533	-108488	111187	282.65
1158	311.7	-19564	54006	60106	63.96
1293	311.7	-18980	98652	101969	75.34
1301	312.0	-10730	175450	176326	84.29
1166	312.5	-15258	43559	48834	63.12
1014	314.3	-2023	-142247	142522	273.56
301	315.7	-61418	-23738	72247	340.82
144	316.5	-23850	-30832	43488	319.89
1144	317.1	-8945	45697	48339	70.97
1238	317.1	-11230	54455	57368	71.66
29	317.2	-28151	23692	42239	34.12
124	318.2	-19490	-8108	27529	340.79
753	318.6	-25395	-90876	96417	289.52
1286	318.6	-25329	57366	65759	60.73
436	319.8	90165	16053	84879	169.10
1355	320.4	11587	40460	40740	96.72
1203	320.8	-236500	-69584	253073	344.04
35	320.8	-20624	1341	27474	2.80
152	321.8	-22463	-14129	32512	334.13
618	322.6	3396	-80319	80392	272.44
1181	322.7	-7775	60772	62499	76.50
1050	323.2	17464	-96819	97402	263.72
134	324.9	-20267	-25667	37315	313.41
1357	325.0	9906	40801	40917	94.33
148	326.8	-24718	-19303	36975	328.73
1291	327.2	-15103	68653	72068	72.29
193	327.2	-29788	-12049	38538	341.78
1056	329.0	62937	-66739	87197	229.94
56	332.0	-32148	22086	44790	3.34
266	332.6	-40018	-37575	60046	319.35
238	333.2	-39302	-12883	47885	344.39
404	333.9	33351	9796	28283	159.74
1084	335.0	-16768	33051	40604	54.49
192	335.4	-32155	-17105	42562	336.30
1054	335.9	29400	-54696	59174	247.57
1200	339.1	-167385	19737	175317	6.46
291	339.2	-47823	-25073	60119	335.35
1415	341.8	15562	58973	59617	98.43
162	342.0	-15292	-16009	27297	318.04
216	342.5	-52620	-8670	60067	351.70
169	342.8	-15359	-11163	24829	334.43

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1233	344.5	-3233	52982	53927	79.26
45	345.0	-8407	10788	18659	39.70
1282	347.9	-13920	35677	41266	59.83
1321	348.9	16579	43148	44238	102.75
742	349.3	-2768	-33097	34457	286.15
12	350.0	-35227	33206	53576	38.30
1154	350.7	-19152	54212	60112	64.40
1250	350.7	5264	36402	36435	87.56
1343	351.0	30882	46767	52595	117.23
1088	353.4	-23761	36892	47918	50.35
1401	355.8	76583	-3144	69836	182.58
276	356.7	-42931	-34291	60422	332.52
1107	357.0	-8829	31427	35106	63.53
1001	359.1	-18120	-51562	57277	295.81
407	359.3	49553	16476	45801	158.92
1379	359.7	66662	106370	122049	119.36
165	361.4	-16855	-18217	29871	322.23
30	362.3	-28173	20425	40516	30.27
1159	362.8	-22779	54574	62083	61.53
249	363.1	-22070	-32224	43277	311.87
1106	363.2	-8899	31485	35190	63.47
1280	364.3	4921	30821	30879	86.48
1190	364.4	-98769	29763	109701	15.74
769	368.5	-17423	-110625	113250	282.36
703	368.9	-4116	-29386	31354	290.41
1284	369.3	-15593	54748	59158	67.74
1136	369.5	5573	42788	42806	88.33
1003	371.2	-15827	-63652	67560	289.58
1420	372.3	15635	72013	72550	96.98
406	373.2	44290	16380	40896	156.39
600	374.8	18923	-10603	16092	221.22
1155	376.3	-20941	54557	61213	63.03
1102	376.5	-6597	36191	38597	69.66
1264	378.8	-5662	62479	63713	78.70
1273	379.2	-35405	79367	89900	61.99
104	379.4	-6870	-14488	19932	314.54
241	380.6	-35317	-20726	46957	333.81
1347	380.7	20077	64437	65787	101.63
60	381.5	-50523	14077	59044	23.43
766	381.8	-21637	-35726	45673	308.54
44	382.1	-8714	11175	19134	35.32

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1353	382.8	9154	50251	50305	92.66
1183	383.0	-9923	59607	61913	74.31
1285	383.0	-25071	57471	65726	60.98
16	383.8	-38166	35618	57378	38.37
744	385.1	2159	-36197	36496	277.33
123	385.8	-19045	-9327	27493	342.87
130	385.8	-19141	-22988	34675	319.82
179	385.9	-25996	-2033	32877	357.34
1199	387.1	-162398	13301	169738	4.49
1366	387.3	24071	35042	39059	116.21
27	387.8	-37688	30520	53965	34.44
747	390.1	2459	-40093	40330	276.20
129	391.0	-18220	-22909	33937	318.47
1382	392.3	32182	-17730	30947	214.95
1044	393.1	39597	-145825	149464	257.33
712	394.0	-8569	-28223	32144	298.60
164	394.1	-16693	-18359	29830	322.42
202	396.0	-36712	-4070	43720	354.66
42	396.3	-7487	11211	18175	34.40
716	398.0	-1189	-32715	33680	283.75
271	398.2	-66913	-60134	95144	321.01
204	400.8	-38175	-4518	45219	354.27
1232	400.9	-9633	47687	50358	71.25
1418	401.6	17545	69681	70502	98.75
126	402.3	-20118	-17394	32064	322.23
768	402.3	-26235	-105491	110548	287.40
1256	402.3	2232	54719	54910	85.21
1100	402.4	15	41294	41850	80.65
607	403.4	19908	-42243	44224	252.78
107	404.4	-15813	-6329	23500	348.71
1163	407.7	-21338	40482	49311	55.18
218	407.9	-57638	-7984	64949	352.94
1281	409.6	-5913	43236	45071	73.59
636	413.0	43695	-69027	78260	241.89
421	413.3	93513	19303	88818	167.45
423	415.7	51599	1544	44807	178.02
315	415.9	-72516	-7733	79710	354.43
1135	416.6	4950	25379	25448	85.79
1167	417.0	-11477	54043	57056	71.30
24	417.0	-57930	36231	74195	29.23
1105	418.8	-8591	31827	35361	64.17

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
770	419.9	-28971	-126620	131580	285.78
119	420.1	-20183	-13442	30162	335.75
196	422.0	-33960	-11055	42250	344.83
711	422.1	-505	-28742	29661	284.29
1119	422.5	-2522	18204	20461	62.84
41	423.1	-7492	11442	18322	38.09
1360	423.8	11148	32705	32990	97.54
732	425.9	-10162	-44079	47237	291.07
635	426.7	44460	-69279	78845	241.48
181	427.9	-28456	-2771	35382	355.51
65	428.1	-68505	10015	75986	4.90
1171	428.5	-10143	56577	59065	73.31
1179	428.9	-4646	56220	57377	78.47
1419	429.1	16016	70275	70874	97.46
1002	429.7	-9390	-63134	65181	284.40
49	429.8	-14434	7711	22608	10.10
1316	430.5	14431	32344	33228	103.25
1224	431.4	-28604	-123256	128245	286.03
235	433.7	-38425	-18883	49026	337.35
171	433.8	-11568	-6988	19669	337.31
1017	435.2	-14624	-131463	133200	279.26
224	438.0	-45159	-16000	54384	342.89
414	438.8	89422	7026	82903	175.14
1207	439.9	-200281	-98006	229118	334.68
17	440.9	-37941	33993	56203	37.22
1022	441.0	-16709	-111296	113756	281.94
426	442.0	53627	28375	54738	148.78
1405	445.3	120001	-22079	115316	191.04
707	448.5	3773	-25773	25952	276.74
402	448.6	23335	12887	20950	142.04
265	452.6	-41215	-41248	63313	316.69
1147	453.3	-4462	49463	50733	77.15
1083	456.7	-16364	33624	40841	55.42
765	458.4	-20032	-61023	66669	293.75
211	459.8	-47754	-5721	54871	354.02
125	461.4	-19818	-9279	28206	327.15
139	463.1	-22147	-25097	38325	320.58
1387	463.6	56260	-17913	52587	199.92
1290	463.9	-36497	49671	65905	48.91
150	464.4	-23186	-18201	35093	327.20
738	467.3	-3933	-42547	43885	284.18

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1352	467.8	9408	51244	51309	92.89
601	468.4	21307	-17610	22804	230.55
1175	469.1	-1575	45145	45919	79.47
314	469.9	-70968	-23189	81169	343.40
1046	472.3	15362	-114738	115056	265.74
1350	473.7	18496	55136	56359	101.96
7	474.1	-19987	21945	34642	39.31
1319	475.6	20913	38447	40950	110.13
717	476.3	4871	-35188	35242	273.17
1268	476.7	-10161	67442	69547	75.87
1328	477.8	18089	53341	54519	101.93
637	481.7	44149	-67462	77102	241.04
419	481.9	108078	24077	104083	166.62
1139	482.7	5072	46182	46215	87.84
1263	485.6	1108	61538	61803	84.70
1413	491.8	17481	55863	56872	100.81
206	493.2	-37766	-8066	45307	349.75
1240	493.9	-18333	50550	56461	63.55
1038	494.8	10087	-107070	107120	268.25
36	495.7	-21302	-18	28120	359.96
210	496.7	-46776	-3488	53707	356.28
1261	497.0	-1461	59065	59642	82.02
1152	497.1	-15024	54397	58619	68.12
1342	500.9	34123	49154	56228	119.05
217	504.9	-45879	-8744	53417	350.58
182	505.7	-31021	-1111	37855	358.32
1141	510.2	2570	49961	50141	85.14
1354	511.8	8184	46594	46614	91.68
1120	513.0	4497	15802	15972	81.64
1331	513.0	20948	59920	61563	103.27
428	514.4	81399	59736	95555	141.31
170	515.5	-14312	-10108	23423	339.19
1125	515.6	2355	25627	26013	80.12
318	517.3	-52980	-13903	61393	346.91
606	518.5	25912	-33467	38530	240.29
718	519.4	2110	-35866	36173	277.48
137	520.9	-20958	-26499	38389	316.91
1389	521.1	74594	-30404	74284	204.16
214	521.1	-56052	-1414	62886	358.71
1322	521.5	15967	46795	47681	101.06
1082	521.6	-17194	30119	38519	51.44

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1040	522.8	8340	-131759	131768	269.34
39	522.9	-16068	2743	23049	15.10
1073	524.0	-13747	21560	29795	46.35
1328	524.4	19151	49328	50847	104.04
1180	529.4	-6714	61075	62556	77.51
1244	533.7	-33356	59091	71454	55.79
1351	534.6	15568	50374	51129	99.85
1161	536.2	-19843	47506	54476	60.70
1178	537.8	-4199	55435	56520	78.76
1170	539.7	-7485	55804	57608	75.62
283	540.6	-49246	-30288	63722	331.62
1043	541.9	27046	-154569	155887	262.54
1392	544.0	88491	-36935	89637	204.33
1090	544.9	-17895	39810	46857	58.17
1111	546.4	-7080	27040	30403	62.80
1092	546.4	-16230	34869	41798	56.54
1313	547.6	15946	26370	27905	109.09
146	550.5	-28494	-34101	49090	323.87
1113	550.7	-5259	25248	27988	64.44
1169	550.7	-7457	52843	54737	74.88
213	552.1	-49537	-5799	56653	354.12
1185	558.4	-4478	61345	62377	79.57
59	560.8	-42936	2539	49819	13.79
243	562.5	-33026	-25990	47571	326.88
1345	563.3	22960	44864	47680	109.79
1311	563.9	13655	18722	19931	110.06
1071	564.0	-12822	22266	29690	48.59
26	564.6	-52800	30169	66816	26.84
771	565.1	-31709	-124457	130283	287.20
610	565.8	27363	-43332	47956	244.63
602	566.1	15766	-25645	27161	250.77
746	566.2	3210	-39201	39367	275.26
1079	566.7	-10594	28871	33715	58.91
1164	566.9	-23931	37871	48782	50.93
1215	567.1	-114923	-52118	132428	336.82
629	571.2	15903	-86121	86599	263.98
223	571.5	-46678	-17296	56222	342.08
1069	573.1	-6491	23278	26814	60.24
316	574.4	-60432	-8023	67727	353.20
1249	580.7	-15702	58783	62949	69.04
1242	581.4	-32333	56630	68846	55.34

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
230	581.5	-43924	-16277	53288	342.21
1034	581.9	7306	-81930	81932	269.66
1020	583.9	-7044	-116377	117200	276.79
1153	587.2	-19150	54212	60111	64.40
1260	588.4	520	55977	56330	83.58
1333	591.7	26864	75748	78356	104.82
57	593.1	-30506	2181	37387	1.34
311	593.1	-53120	-20690	63408	340.96
1174	595.6	1357	40783	41147	82.37
713	596.5	-9472	-32149	36040	296.87
1078	597.7	-11609	28896	34272	57.47
1340	599.4	33785	78059	82587	109.06
1378	600.3	67163	111160	126483	118.50
256	601.3	-24732	-24915	40202	321.70
1300	602.5	-14758	175159	176483	82.98
1241	605.3	-14526	47400	51984	65.76
21	606.4	-55779	49583	79855	38.38
1276	607.8	4362	111450	111477	88.74
1068	609.6	-4774	22940	25702	63.19
1258	612.9	582	56142	56488	83.66
64	614.2	-58514	23773	69523	7.57
701	614.5	-3334	-32454	34005	287.37
740	615.4	-1383	-46285	47005	280.05
1230	617.3	-29409	-157755	161861	282.93
1162	618.4	-17542	43378	49750	60.68
751	619.7	3577	-55294	55389	273.35
608	621.0	22922	-39939	43063	248.04
708	622.5	1041	-26648	27267	282.23
1253	623.9	3813	57413	57491	87.00
1008	623.9	-26993	-88878	95092	290.83
611	625.6	18670	-52160	53489	257.20
1266	627.4	-7196	66294	67759	78.06
136	630.8	-19339	-27548	37988	316.35
1132	634.0	3225	29857	30073	83.14
724	634.9	-19661	-38177	46461	304.74
752	635.4	-2379	-55685	56439	279.38
1070	637.2	-5961	23797	27012	61.76
25	637.5	-50394	32923	66009	29.92
61	638.0	-55146	26853	67533	30.98
1414	640.1	15017	59042	59608	97.91
1032	643.6	3574	-93318	93375	271.99

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1304	648.4	-20718	109441	112852	75.88
633	650.9	26547	-94254	96297	258.18
1012	653.2	-3141	-147744	148079	273.86
720	655.0	-9994	-37404	41009	294.20
1101	663.3	-8979	37445	40641	67.13
1416	666.0	14846	61806	62325	97.40
319	668.6	-55592	-18254	65025	343.70
1126	673.8	-1179	25052	26297	72.30
1150	676.5	-9929	56275	58714	73.43
1252	678.1	5595	54342	54356	88.71
639	682.7	36702	-101212	105531	253.55
263	685.5	-40441	-51436	69850	312.58
1024	687.7	-15764	-107596	109941	281.85
296	688.3	-66526	-33078	80458	335.72
1210	688.5	-126634	-30442	136880	347.15
103	693.3	-8230	-13653	20318	313.37
203	701.5	-36740	-5268	43875	353.10
1423	702.4	16962	77859	78517	97.42
1229	702.5	-29909	-155778	150049	283.27
1134	709.3	2911	28567	28933	82.21
115	710.8	-18581	-15177	29588	330.13
1417	712.9	14685	67288	57746	96.67
6	717.1	-19420	20682	33409	38.25
11	717.4	-32310	29229	48840	36.76
221	718.3	-48678	-16391	57866	343.55
1325	719.7	8811	48611	48652	92.35
1212	720.9	-91657	-35919	104821	339.96
157	721.4	-13509	-15734	25704	321.88
1310	724.3	-14835	101052	103346	77.91
1272	724.9	-25069	80615	86692	68.42
231	727.7	-39062	-17892	49246	338.70
19	728.9	-40854	30562	56627	32.66
1053	729.2	25700	-67494	70086	254.37
1093	731.9	-12581	36792	41593	62.20
1064	734.5	-9764	18237	24649	47.72
405	734.9	38815	7314	32822	167.12
1188	735.1	-84438	13903	92309	8.66
1129	737.8	-2560	28162	29682	71.58
1362	738.2	18272	24076	26662	115.44
1103	738.5	-7419	35852	38575	68.34
725	741.5	-21902	-35354	45550	309.09

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
605	746.8	28895	-27503	35268	231.25
613	752.2	20451	-56762	58376	256.49
1339	752.3	25194	85046	87009	102.19
1323	755.2	15111	46589	47321	100.09
1177	756.8	-3610	54629	55616	79.19
1410	757.4	24076	16379	23793	136.50
632	758.0	23617	-86789	88400	259.05
240	758.2	-50701	-5566	57788	354.47
1029	759.5	-5668	-107373	108097	276.63
141	764.8	-23889	-23899	38911	326.16
1010	766.8	-13649	-121105	122823	279.59
710	766.9	2540	-29774	30079	278.18
620	768.3	12955	-75193	75443	265.33
1408	771.3	89418	9347	83127	173.54
274	776.9	-51651	-38770	70155	324.68
727	776.9	-20663	-40051	48573	304.46
1246	783.0	-29048	64886	74139	61.07
1309	788.1	-15221	102508	104851	77.87
1076	791.1	-12969	26738	33263	53.50
624	792.5	13969	-79799	80119	264.88
1031	793.3	3576	-93320	93376	271.99
429	801.4	85578	56106	96700	144.54
630	806.2	15864	-89756	90211	264.24
14	806.9	-34633	36333	55120	41.24
1045	807.3	24745	-126161	127428	261.91
757	808.7	-15518	-71593	74997	287.33
155	808.8	-13442	-3470	20555	321.43
1269	811.6	-17530	67828	72066	70.25
748	812.4	4496	-41929	41993	273.17
1173	813.1	-5590	42160	43948	73.60
302	813.2	-58784	-22459	69340	341.10
417	817.9	105026	14027	99204	171.87
762	818.3	-24032	-68054	74720	294.39
1118	820.0	359	17171	18345	69.39
205	822.1	-39042	-4299	46061	354.64
1358	823.9	7438	40119	40124	90.89
1094	825.5	-7402	37818	40403	69.39
1039	836.6	11405	-116206	116296	267.74
1254	837.0	2655	57692	57842	85.87
1314	838.6	11175	25719	26085	99.61
1013	839.9	-3636	-144054	144433	274.15

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
290	843.1	-46974	-24698	59191	335.34
1146	843.5	-7078	49969	51865	74.46
1085	847.9	-21622	32042	42843	48.41
736	856.9	-9016	-41606	44517	290.84
1	857.2	-13981	4672	21317	12.66
28	878.7	-42366	22740	54186	24.81
1117	878.9	950	20058	20898	73.69
1108	880.1	-6255	31989	34558	67.77
1394	880.9	100167	-29752	97975	197.68
1201	884.1	-183442	30280	192655	9.04
22	886.1	-59171	49732	82631	37.00
1396	889.1	85667	-9940	79473	187.19
1271	889.7	-22963	81591	86856	69.95
1160	890.6	-19166	47746	54358	61.44
1302	892.3	-14961	134316	136070	80.79
1192	893.9	-122043	19352	130306	8.54
1098	899.7	-2345	42780	43750	77.91
734	900.9	-9330	-44859	47677	289.80
706	901.0	5377	-25157	25198	273.28
15	901.6	-38030	35583	57249	38.43
1388	904.9	62235	-21309	59373	201.03
158	906.0	-13626	-16041	25986	318.22
1327	907.0	18048	51858	53060	102.22
1186	907.1	-4477	61346	62377	79.57
432	911.9	83963	30677	83021	158.31
1077	912.3	-15505	26288	34487	49.66
1262	916.3	-2868	61142	62892	81.14
1211	918.2	-111562	-25237	121040	347.97
1369	922.7	29504	127846	129843	100.06
116	922.8	-16967	-13660	27429	332.99
628	923.7	15903	-86120	86598	263.98
705	931.0	-6292	-22690	26206	300.02
1060	931.6	-4242	12583	16752	48.69
127	933.4	-17999	-19232	31397	319.04
1140	933.5	4579	50859	50908	87.48
425	934.5	55330	14158	50536	163.73
772	944.6	-27036	-124010	128548	285.27
634	948.0	39515	-79105	85597	247.54
312	951.6	-69145	-26254	80371	340.93
1096	960.5	-5430	45386	47010	74.90
20	979.0	-52387	46085	75028	37.90

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
142	979.3	-25896	-21935	39387	316.83
640	981.0	47948	-57037	70320	234.20
1058	992.7	-5815	11890	17348	43.26
1384	996.3	45449	-30429	49176	218.23
1137	998.4	1230	43911	44265	82.75
1063	1000.8	-9866	16654	23574	44.95
1099	1003.7	-2136	40179	41165	77.44
625	1008.9	19188	-79039	80001	261.10
638	1009.1	16374	-67570	68242	261.95
409	1023.1	58712	4330	52074	175.23
1270	1026.4	-13057	75653	78221	75.28
1025	1028.4	-16862	-102076	104787	283.06
101	1039.0	-5316	-6442	13738	318.56
741	1045.0	1131	-43066	43440	277.52
612	1048.4	17622	-52135	53243	258.29
1072	1050.9	-13556	21668	29742	46.76
13	1055.8	-35852	32724	53774	37.48
1006	1056.0	-17312	-82951	86390	286.22
1095	1063.8	-6383	39948	42072	71.71
1124	1064.4	3007	26446	26720	81.80
413	1066.5	80275	14678	74909	168.70
726	1077.7	-23197	-39671	49746	307.11
1121	1080.3	6357	14338	14345	88.16
1422	1081.7	15925	79690	80208	96.52
5	1082.6	-15809	19639	29961	40.96
614	1083.6	20238	-66203	67549	258.54
8	1089.0	-21225	20074	34487	35.60
100	1093.4	-2558	-6417	11362	332.03
715	1093.5	-7249	-32552	35468	293.37
1381	1100.3	33708	-17991	32354	213.78
1386	1100.9	56319	-19228	53104	201.23
1297	1100.9	-32896	108844	115863	69.95
1195	1102.7	-137427	7009	144416	2.78
239	1109.0	-50564	-5695	57664	354.33
627	1127.4	15479	-84445	84888	264.14
18	1128.6	-38558	33199	56224	36.19
1081	1132.1	-16754	30386	38458	52.20
1116	1154.5	3898	21108	21309	82.12
1279	1159.7	4218	83133	83174	88.21
1104	1167.1	-7513	35442	38230	67.98
731	1168.4	-12612	-42487	46719	294.58

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
763	1171.7	-27437	-68934	76976	296.42
1036	1177.7	10506	-99182	99250	267.87
1411	1182.1	19958	23260	26715	119.46
160	1195.4	-14665	-16465	27067	321.62
58	1196.3	-42148	1146	48980	2.92
1148	1200.0	-10065	49201	52017	71.06
714	1203.0	-11557	-31090	36115	300.58
317	1204.1	-56777	-12986	64907	348.46
617	1207.3	20554	-71362	72672	259.10
1320	1209.1	15540	42517	43403	101.59
1335	1210.0	22848	77776	79411	101.65
626	1219.8	16938	-81041	81670	262.88
735	1220.4	-12868	-40678	45191	295.82
1275	1231.5	-23555	89093	94128	71.18
700	1240.3	-3351	-31842	33426	287.71
758	1248.1	-16491	-70851	74587	288.21
1075	1252.6	-11050	26935	32323	56.44
161	1253.8	-14896	-17197	27700	324.09
40	1261.2	-16278	6232	23922	38.65
1318	1271.5	21110	36962	39629	111.14
261	1280.1	-38887	-48122	66368	313.52
1123	1291.7	6508	22397	22400	89.21
37	1304.4	-19632	455	26454	0.99
759	1313.2	-17764	-67343	71689	290.05
1324	1314.6	14482	46592	47218	99.34
609	1328.6	26632	-40470	45060	243.91
1277	1334.9	1965	143415	143497	88.06
34	1349.0	-23274	8804	31353	16.31
1407	1354.7	106763	-2618	99979	181.50
33	1361.7	-26910	10754	35401	17.68
1184	1364.4	-4691	60925	62003	79.30
1030	1372.5	-1482	-100323	100666	274.73
622	1384.9	12813	-73591	73835	265.34
1059	1413.2	-6301	12077	17832	42.63
1110	1414.5	-5354	27208	29807	65.90
1114	1421.5	-3153	24003	25991	67.44
410	1429.1	64412	19078	60671	161.67
1004	1429.8	-11171	-67346	69707	284.95
1404	1432.4	149622	-11011	143228	184.41
1026	1448.0	813	-114783	114940	272.99
1131	1452.6	3241	33716	33906	83.94

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1128	1455.3	-2428	27504	29017	71.42
120	1466.9	-19512	-11859	28877	332.38
1391	1469.3	84130	-33818	84385	203.63
1265	1478.7	-6780	64143	65568	78.03
756	1483.8	-15289	-72740	76025	286.90
183	1502.2	-30266	-3240	37225	355.01
767	1502.6	-5021	-15891	19816	306.69
156	1505.6	-12755	-15606	25033	322.26
1393	1519.5	95266	-19529	90579	192.45
132	1538.7	-21380	-23516	36717	316.19
1219	1541.6	-85585	-76859	120190	320.25
1037	1543.1	9630	-90828	90871	268.23
739	1546.9	-4694	-44106	45583	284.63
631	1547.8	12622	-92538	92720	266.41
1087	1571.2	-26912	33387	47460	44.71
1122	1574.1	6672	16631	16632	89.50
117	1578.1	-17814	-12557	27648	331.37
1138	1588.2	5662	46669	46684	88.58
743	1588.6	1968	-36843	37161	277.50
1066	1592.0	-5138	21711	24785	61.16
745	1596.7	3054	-37489	37678	275.73
1097	1596.9	-2338	48579	49435	79.33
178	1610.9	-26365	-9714	34576	356.46
121	1620.6	-20081	-14077	30360	334.00
1303	1621.8	-14641	120482	122379	79.90
1400	1623.7	70366	-30499	70488	205.64
46	1635.0	-4788	9635	15084	35.45
623	1678.9	12699	-77911	78133	265.68
106	1692.8	-13625	-9475	22532	344.38
616	1694.9	19867	-70173	71376	259.47
1274	1695.2	-29305	83585	91057	66.63
270	1696.5	-56629	-51361	81630	316.50
1080	1701.1	-15275	30119	37354	53.74
760	1713.0	-11911	-71061	73488	284.77
430	1740.2	89261	42496	92751	152.73
1267	1755.8	-8797	68884	70631	77.23
1326	1761.3	8268	48778	48800	91.70
23	1770.9	-68169	65171	99349	40.99
1149	1787.8	-11943	55402	58493	71.29
3	1796.7	-9173	9100	18399	29.64
1251	1801.7	697	51791	52151	83.26

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1145	1807.7	-7073	49614	51522	74.36
761	1835.3	-11827	-69637	72090	284.99
1057	1859.6	-3461	8057	13060	38.09
750	1886.4	5033	-51298	51329	271.99
1133	1894.3	3267	29331	29545	83.10
1243	1899.6	-33895	56811	69893	54.37
1016	1937.4	3346	-132814	132859	271.50
1312	1969.9	16619	21461	23593	114.55
128	1970.8	-18350	-21848	33328	317.54
228	1993.7	-45392	-17307	55003	341.66
1086	2006.0	-23145	31721	43635	46.63
264	2021.5	-43062	-47013	68544	316.69
1365	2045.2	30848	27846	36781	130.79
1317	2069.9	18850	37471	39355	107.80
418	2071.2	110431	23495	106244	167.22
721	2104.2	-10390	-39280	42884	293.66
133	2135.5	-19803	-25535	36888	316.54
159	2139.0	-13719	-18349	27540	322.53
1061	2145.1	-4073	15428	18884	54.78
619	2158.7	12983	-74418	74673	265.26
1289	2178.6	-35910	52456	67656	50.84
1127	2205.8	-1854	25414	26853	71.16
773	2214.2	-14193	-114364	116279	280.41
400	2223.9	20956	10599	17669	143.14
1383	2235.3	41155	-21999	40780	212.65
603	2245.9	27325	-24496	31946	230.06
1074	2247.3	-14390	21504	30203	45.40
1421	2254.4	15932	78359	78887	96.63
1062	2280.9	-7329	12213	18690	40.80
66	2303.0	-84057	7790	91209	23.39
1257	2322.0	1697	56195	56428	84.79
1011	2373.0	-14508	-160105	161519	277.59
2	2380.3	-5585	7211	14347	30.17
189	2387.5	-29598	-13344	38784	339.88
737	2406.8	-6449	-41188	43273	287.85
1130	2412.1	-6386	28836	31715	65.40
729	2420.6	-14972	-41235	46638	297.85
411	2438.1	69658	19613	65830	162.67
754	2456.3	-21094	-86554	90943	287.87
615	2493.3	19551	-68393	69568	259.45
764	2569.4	-26537	-55956	65143	300.80

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1247	2661.0	-18976	61974	67127	67.40
1176	2730.8	-4119	54089	55184	78.57
1035	2787.1	6889	-90033	90033	269.95
1259	2788.2	-1739	54580	55246	81.09
1402	2806.6	98412	-176	91594	180.11
1015	2817.6	4056	-148623	148649	271.06
1364	2930.3	28244	23052	31471	132.91
163	3000.4	-15381	-19960	29852	322.02
403	3010.0	34222	12045	29934	156.27
733	3198.0	-10334	-46635	49689	290.19
1255	3233.7	3073	53517	53648	86.00
1424	3298.1	14480	85109	85453	95.14
621	3298.6	10087	-73512	73584	267.45
1112	3325.6	-5738	26840	29631	64.93
1033	3573.2	-3280	-76997	77656	277.47
1067	3629.0	-5198	22676	25663	62.08
408	3855.0	56209	12061	50842	166.28
1336	3856.0	17119	81915	82560	97.17
604	4082.0	30244	-25763	34821	227.72
755	4082.0	-23610	-82466	87901	290.25
4	4536.0	-10810	11794	21210	33.79
431	4536.0	82045	33707	82434	155.86
1115	4763.0	-257	22574	23656	72.60
728	4763.0	-18364	-42227	49165	300.81
1109	4763.0	-5420	30607	32963	68.21
1005	4763.0	-26497	-65354	73355	297.01
1065	4990.0	-5762	20183	23783	58.06
1047	5216.0	7072	-114601	114601	269.87
1142	6124.0	-1515	47092	47824	79.97
1055	7031.0	37409	-58724	66214	242.48
722	9525.0	-13789	-35685	41208	300.00
420	26082.0	99093	19777	94371	167.90
682689.66					

3.5 MASS DISTRIBUTION

The weights from the "Sorted by Weight" database (Subsection 3.4) were scaled up to a full-size structure by multiplying by 27. The scaled-up weights were then divided into weight intervals. The number of pieces and total weight of PAS-4 debris in each weight interval were calculated, producing information that became the basis for the mass-distribution table.

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
1374	23.0	1.37			
1375	23.9	1.42			
278	35.4	2.11			
1216	52.2	3.11			
1373	54.4	3.24	1.75 - 3.25	5	11.24
1209	54.7	3.26			
1372	59.0	3.51			
1202	61.0	3.63			
1218	62.7	3.73			
1307	63.0	3.75			
1194	68.7	4.09			
1298	70.6	4.20			
1371	73.8	4.40			
1189	76.5	4.55			
277	79.0	4.70	3.25 - 4.75	10	39.83
184	89.5	5.33			
230	91.7	5.46			
1225	95.1	5.66			
279	95.5	5.68			
212	98.4	5.86			
1377	99.7	5.94			
226	104.2	6.20			
286	105.3	6.27			
308	106.7	6.35			
1193	106.8	6.36			
1376	107.1	6.38			
172	110.2	6.56			
280	110.6	6.58			
288	113.3	6.75	4.75 - 6.75	14	85.38
1191	113.7	6.77			
259	118.2	7.04			
246	119.4	7.11			
186	122.4	7.29			
1220	124.8	7.43			
233	125.6	7.48			
269	126.6	7.54			
289	129.5	7.71			
199	130.0	7.74			
1294	130.0	7.74			
1227	131.0	7.80			
295	131.5	7.83			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
268	133.2	7.93			
273	133.4	7.94			
1228	136.2	8.11			
299	136.4	8.12			
1223	137.0	8.16			
305	137.0	8.16			
236	137.6	8.19			
222	138.2	8.23			
1341	138.9	8.27			
112	139.0	8.28			
304	139.6	8.31			
1368	139.8	8.32			
435	143.2	8.53			
1370	146.5	8.72			
1151	147.0	8.75			
257	147.9	8.81			
194	150.2	8.94			
281	151.3	9.01			
215	152.8	9.10			
287	154.4	9.19	6.75 - 9.25	32	258.52
1334	156.0	9.29			
220	156.5	9.32			
1299	157.4	9.37			
197	159.5	9.49			
195	159.7	9.51			
1217	159.9	9.52			
709	160.9	9.58			
1197	161.5	9.61			
1226	161.6	9.62			
185	162.5	9.67			
284	162.5	9.67			
303	163.1	9.71			
1363	164.9	9.82			
1296	166.8	9.93			
174	169.1	10.07			
320	170.5	10.15			
248	172.1	10.25			
242	172.6	10.28			
306	173.7	10.34			
1041	173.7	10.34			
188	174.2	10.37			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
1214	174.7	10.40			
72	176.9	10.53			
298	177.0	10.54			
70	177.4	10.56			
208	177.9	10.59			
110	178.5	10.63			
247	178.7	10.64			
153	181.4	10.80			
191	181.6	10.81			
1196	182.4	10.86			
1356	183.1	10.90			
433	183.5	10.92			
207	184.8	11.00			
118	185.7	11.06			
1237	187.9	11.19			
1348	188.1	11.20			
427	188.3	11.21			
285	190.2	11.32			
434	190.6	11.35			
255	192.0	11.43			
1412	193.4	11.51			
1042	194.7	11.59			
67	195.0	11.61			
225	195.5	11.64			
1295	196.2	11.68			
1208	196.5	11.70			
176	197.5	11.76			
154	198.2	11.80			
282	198.7	11.83			
38	199.8	11.90			
1235	200.8	11.95			
254	201.1	11.97			
1367	201.5	12.00			
143	202.2	12.04			
201	203.3	12.10			
175	203.6	12.12			
105	203.8	12.13			
138	204.8	12.19			
275	204.9	12.20			
209	205.6	12.24	9.25 - 12.25	61	661.82
102	207.4	12.35			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
1337	207.5	12.35			
52	208.6	12.42			
253	210.1	12.51			
1305	210.2	12.51			
111	210.9	12.56			
1234	211.0	12.56			
69	211.2	12.57			
31	211.3	12.58			
1361	211.3	12.58			
1027	212.1	12.63			
74	212.7	12.66			
1213	213.6	12.72			
1018	213.8	12.73			
108	214.5	12.77			
147	215.4	12.82			
32	215.7	12.84			
71	216.3	12.88			
113	217.2	12.93			
187	217.2	12.93			
55	217.5	12.95			
1198	217.6	12.95			
1206	218.9	13.03			
297	219.0	13.04			
219	220.1	13.10			
292	220.4	13.12			
177	220.7	13.14			
1278	220.9	13.15			
1332	221.1	13.16			
51	221.6	13.19			
1157	222.2	13.23			
309	223.2	13.29			
1091	224.6	13.37			
307	225.1	13.40			
1344	229.6	13.67			
237	229.8	13.68			
173	231.2	13.76			
200	231.2	13.77			
227	232.5	13.84			
252	232.8	13.86			
293	233.4	13.89			
1231	235.3	14.01			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
10	235.3	14.01			
1007	235.5	14.02			
234	236.5	14.08			
1283	237.8	14.16			
122	238.6	14.21			
300	239.3	14.24			
412	239.3	14.25			
145	241.8	14.40			
250	242.4	14.43			
167	242.4	14.43			
1338	244.3	14.54			
47	245.4	14.61			
54	247.6	14.74			
63	247.9	14.76			
424	250.0	14.88			
1236	250.8	14.93			
1204	251.7	14.98			
168	252.3	15.02			
1182	252.5	15.03			
310	253.0	15.06			
401	253.4	15.09			
149	253.4	15.09			
109	253.9	15.12			
1287	254.2	15.13			
262	256.9	15.29			
1172	257.1	15.31			
1306	257.4	15.32			
1048	257.8	15.35			
229	258.2	15.37			
294	258.6	15.40			
1330	259.5	15.45			
73	259.8	15.47			
1205	261.5	15.57			
702	262.1	15.60			
68	262.6	15.63			
1143	263.4	15.68			
1021	264.3	15.74			
260	266.1	15.84			
1049	266.6	15.87			
1359	272.0	16.19	12.25 - 16.75	82	1147.82
62	273.3	16.27			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
1288	274.5	16.34			
704	274.7	16.35			
114	275.7	16.41			
1397	276.7	16.47			
50	277.1	16.50			
244	277.5	16.52			
267	278.1	16.56			
272	279.1	16.62			
1349	281.2	16.74			
1245	283.3	16.87			
1222	283.8	16.90			
1221	284.7	16.95			
437	285.0	16.97			
48	285.2	16.98			
1168	285.7	17.01			
151	286.1	17.03			
1346	286.4	17.05			
258	288.3	17.16			
131	288.3	17.16			
1089	288.9	17.20			
1248	289.3	17.22			
1315	289.6	17.24			
1156	293.0	17.44			
190	293.1	17.45			
1239	293.8	17.49			
749	294.1	17.51			
1052	296.8	17.67			
245	297.8	17.73			
1308	301.3	17.94			
135	302.5	18.01			
43	304.1	18.10			
198	304.6	18.13			
1051	305.2	18.17	16.75 - 18.25	34	582.18
1019	307.3	18.30			
140	308.1	18.34			
9	308.4	18.36			
1165	309.4	18.42			
1292	309.5	18.43			
251	310.8	18.50			
1009	311.3	18.53			
53	311.6	18.55			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
1023	311.6	18.55			
1158	311.7	18.56			
1293	311.7	18.56			
1301	312.0	18.57			
1166	312.5	18.60			
1014	314.3	18.71			
301	315.7	18.79			
144	316.5	18.84			
1144	317.1	18.88			
1238	317.1	18.88			
29	317.2	18.88			
124	318.2	18.94			
753	318.6	18.97			
1286	318.6	18.97			
436	319.8	19.04			
1355	320.4	19.08			
1203	320.8	19.10			
35	320.8	19.10			
152	321.8	19.16			
618	322.6	19.21			
1181	322.7	19.21			
1050	323.2	19.24			
134	324.9	19.34			
1357	325.0	19.35			
148	326.8	19.46			
1291	327.2	19.48			
193	327.2	19.48			
1056	329.0	19.59			
56	332.0	19.77			
266	332.6	19.80			
238	333.2	19.84			
404	333.9	19.88			
1084	335.0	19.94			
192	335.4	19.97			
1054	335.9	20.00			
1200	339.1	20.19			
291	339.2	20.20			
1415	341.8	20.35			
162	342.0	20.36			
216	342.5	20.39			
169	342.8	20.41			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
1233	344.5	20.51			
45	345.0	20.54			
1282	347.9	20.71			
1321	348.9	20.77			
742	349.3	20.80			
12	350.0	20.84			
1154	350.7	20.88			
1250	350.7	20.88			
1343	351.0	20.90			
1088	353.4	21.04			
1401	355.8	21.18			
276	356.7	21.24			
1107	357.0	21.25			
1001	359.1	21.38			
407	359.3	21.39			
1379	359.7	21.41			
165	361.4	21.52			
30	362.3	21.57			
1159	362.8	21.60			
249	363.1	21.62			
1106	363.2	21.62			
1280	364.3	21.69			
1190	364.4	21.69	18.25 - 21.75	72	1428.08
769	368.5	21.94			
703	368.9	21.96			
1284	369.3	21.99			
1136	369.5	22.00			
1003	371.2	22.10			
1420	372.3	22.16			
406	373.2	22.22			
600	374.8	22.31			
1155	376.3	22.40			
1102	376.5	22.41			
1264	378.8	22.55			
1273	379.2	22.58			
104	379.4	22.59			
241	380.6	22.66			
1347	380.7	22.66			
60	381.5	22.71			
766	381.8	22.73			
44	382.1	22.75			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
1353	382.8	22.79	21.75 - 23.25	30	678.23
1183	383.0	22.80			
1285	383.0	22.80			
16	383.8	22.85			
744	385.1	22.93			
123	385.8	22.97			
130	385.8	22.97			
179	385.9	22.97			
1199	387.1	23.05			
1366	387.3	23.06			
27	387.8	23.09			
747	390.1	23.22			
129	391.0	23.28			
1382	392.3	23.36			
1044	393.1	23.40			
712	394.0	23.46			
164	394.1	23.46			
202	396.0	23.58			
42	396.3	23.59			
716	398.0	23.69			
271	398.2	23.71			
204	400.8	23.86			
1232	400.9	23.87			
1418	401.6	23.91			
126	402.3	23.95			
768	402.3	23.95			
1256	402.3	23.95			
1100	402.4	23.96			
607	403.4	24.02			
107	404.4	24.08			
1163	407.7	24.27			
218	407.9	24.28			
1281	409.6	24.39			
636	413.0	24.59			
421	413.3	24.60			
423	415.7	24.75			
315	415.9	24.76			
1135	416.6	24.80			
1167	417.0	24.82			
24	417.0	24.83			
1105	418.8	24.93			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
770	419.9	25.00			
119	420.1	25.01			
196	422.0	25.12			
711	422.1	25.13			
1119	422.5	25.15			
41	423.1	25.19			
1360	423.8	25.23			
732	425.9	25.36			
635	426.7	25.40			
181	427.9	25.48			
65	428.1	25.49			
1171	428.5	25.51			
1179	428.9	25.53			
1419	429.1	25.55			
1002	429.7	25.58			
49	429.8	25.59			
1316	430.5	25.63			
1224	431.4	25.68			
235	433.7	25.82			
171	433.8	25.83			
1017	435.2	25.91			
224	438.0	26.08			
414	438.8	26.12			
1207	439.9	26.19			
17	440.9	26.25			
1022	441.0	26.25			
426	442.0	26.31			
1405	445.3	26.51			
707	448.5	26.70			
402	448.6	26.71	23.25 - 26.75	59	1469.41
265	452.6	26.95			
1147	453.3	26.99			
1083	456.7	27.19			
765	458.4	27.29			
211	459.8	27.37			
125	461.4	27.47			
139	463.1	27.57			
1387	463.6	27.60			
1290	463.9	27.62			
150	464.4	27.65			
738	467.3	27.82			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
1352	467.8	27.85	26.75 - 28.25	19	526.02
601	468.4	27.89			
1175	469.1	27.93			
314	469.9	27.98			
1046	472.3	28.12			
1350	473.7	28.20			
7	474.1	28.23			
1319	475.6	28.31			
717	476.3	28.36			
1268	476.7	28.38			
1328	477.8	28.45			
637	481.7	28.68			
419	481.9	28.69			
1139	482.7	28.74			
1263	485.6	28.91			
1413	491.8	29.28			
206	493.2	29.36			
1240	493.9	29.40			
1038	494.8	29.46			
36	495.7	29.51			
210	496.7	29.57			
1261	497.0	29.59			
1152	497.1	29.59			
1342	500.9	29.82			
217	504.9	30.06			
182	505.7	30.11			
1141	510.2	30.37			
1354	511.8	30.47			
1120	513.0	30.54			
1331	513.0	30.54			
428	514.4	30.62			
170	515.5	30.69			
1125	515.6	30.70			
318	517.3	30.80			
606	518.5	30.87			
718	519.4	30.92			
137	520.9	31.01			
1389	521.1	31.02			
214	521.1	31.02			
1322	521.5	31.05			
1082	521.6	31.05			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
1040	522.8	31.12	28.25 - 31.75	38	1143.83
39	522.9	31.13			
1073	524.0	31.20			
1328	524.4	31.22			
1180	529.4	31.52			
1244	533.7	31.77			
1351	534.6	31.83			
1161	536.2	31.92			
1178	537.8	32.02			
1170	539.7	32.13			
283	540.6	32.18			
1043	541.9	32.26			
1392	544.0	32.39			
1090	544.9	32.44			
1111	546.4	32.53			
1092	546.4	32.53			
1313	547.6	32.60			
146	550.5	32.77			
1113	550.7	32.79	31.75 - 33.25	17	551.07
1169	550.7	32.79			
213	552.1	32.87			
1185	558.4	33.24			
59	560.8	33.39			
243	562.5	33.49			
1345	563.3	33.54			
1311	563.9	33.57			
1071	564.0	33.58			
26	564.6	33.61			
771	565.1	33.64			
610	565.8	33.68			
602	566.1	33.70			
746	566.2	33.71			
1079	566.7	33.74			
1164	566.9	33.75			
1215	567.1	33.76			
629	571.2	34.01			
223	571.5	34.02			
1069	573.1	34.12			
316	574.4	34.20			
1249	580.7	34.57			
1242	581.4	34.61			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
230	581.5	34.62	33.25 - 36.75	43	1499.86
1034	581.9	34.64			
1020	583.9	34.76			
1153	587.2	34.96			
1260	588.4	35.03			
1333	591.7	35.23			
57	593.1	35.31			
311	593.1	35.31			
1174	595.6	35.46			
713	596.5	35.51			
1078	597.7	35.58			
1340	599.4	35.69			
1378	600.3	35.74			
256	601.3	35.80			
1300	602.5	35.87			
1241	605.3	36.04			
21	606.4	36.10			
1276	607.8	36.19			
1068	609.6	36.29			
1258	612.9	36.49			
64	614.2	36.57			
701	614.5	36.58			
740	615.4	36.64			
1230	617.3	36.75			
1162	618.4	36.82			
751	619.7	36.89			
608	621.0	36.97			
708	622.5	37.06			
1253	623.9	37.14			
1008	623.9	37.14			
611	625.6	37.25			
1266	627.4	37.35			
136	630.8	37.55			
1132	634.0	37.75			
724	634.9	37.80			
752	635.4	37.83			
1070	637.2	37.94			
25	637.5	37.95			
61	638.0	37.98			
1414	640.1	38.11			
1032	643.6	38.32			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
1304	648.4	38.60			
633	650.9	38.75			
1012	653.2	38.89			
720	655.0	39.00			
1101	663.3	39.49			
1416	666.0	39.65			
319	668.6	39.81			
1126	673.8	40.11			
1150	676.5	40.28			
1252	678.1	40.37			
639	682.7	40.64			
263	685.5	40.81			
1024	687.7	40.94			
296	688.3	40.98			
1210	688.5	40.99			
103	693.3	41.28			
203	701.5	41.76			
1423	702.4	41.82			
1229	702.5	41.82			
1134	709.3	42.23			
115	710.8	42.32			
1417	712.9	42.44			
6	717.1	42.69			
11	717.4	42.71			
221	718.3	42.76			
1325	719.7	42.85			
1212	720.9	42.92			
157	721.4	42.95			
1310	724.3	43.12			
1272	724.9	43.16	36.75 - 43.25	47	1873.99
231	727.7	43.32			
19	728.9	43.40			
1053	729.2	43.41			
1093	731.9	43.57			
1064	734.5	43.73			
405	734.9	43.75			
1188	735.1	43.76			
1129	737.8	43.92			
1362	738.2	43.95			
1103	738.5	43.97			
725	741.5	44.15			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
605	746.8	44.46			
613	752.2	44.78			
1339	752.3	44.79			
1323	755.2	44.96			
1177	756.8	45.06			
1410	757.4	45.09			
632	758.0	45.13			
240	758.2	45.14			
1029	759.5	45.22			
141	764.8	45.53			
1010	766.8	45.65			
710	766.9	45.66			
620	768.3	45.74			
1408	771.3	45.92			
274	776.9	46.25			
727	776.9	46.25			
1246	783.0	46.62			
1309	788.1	46.92			
1076	791.1	47.10			
624	792.5	47.18			
1031	793.3	47.23			
429	801.4	47.71			
630	806.2	48.00			
14	806.9	48.04			
1045	807.3	48.06			
757	808.7	48.15			
155	808.8	48.15			
1269	811.6	48.32			
748	812.4	48.37			
1173	813.1	48.41			
302	813.2	48.41			
417	817.9	48.69			
762	818.3	48.72			
1118	820.0	48.82			
205	822.1	48.94			
1358	823.9	49.05			
1094	825.5	49.15			
1039	836.6	49.81			
1254	837.0	49.83			
1314	838.6	49.93			
1013	839.9	50.00			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
290	843.1	50.19			
1146	843.5	50.22			
1085	847.9	50.48			
736	856.9	51.02			
1	857.2	51.03			
28	878.7	52.31			
1117	878.9	52.33			
1108	880.1	52.40			
1394	880.9	52.44			
1201	884.1	52.63			
22	886.1	52.75			
1396	889.1	52.93			
1271	889.7	52.97			
1160	890.6	53.02			
1302	892.3	53.12			
1192	893.9	53.22			
1098	899.7	53.56			
734	900.9	53.64			
706	901.0	53.64			
15	901.6	53.68			
1388	904.9	53.87			
158	906.0	53.94			
1327	907.0	54.00			
1186	907.1	54.00			
432	911.9	54.29			
1077	912.3	54.31			
1262	916.3	54.55			
1211	918.2	54.67			
1369	922.7	54.93			
116	922.8	54.94			
628	923.7	54.99			
705	931.0	55.43			
1060	931.6	55.46			
127	933.4	55.57			
1140	933.5	55.58			
425	934.5	55.64			
772	944.6	56.24			
634	948.0	56.44			
312	951.6	56.65	43.25 - 56.75	91	4509.25
1096	960.5	57.18			
20	979.0	58.28			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
142	979.3	58.30	56.75 - 63.25	20	1207.53
640	981.0	58.40			
1058	992.7	59.10			
1384	996.3	59.31			
1137	998.4	59.44			
1063	1000.8	59.58			
1099	1003.7	59.76			
625	1008.9	60.06			
638	1009.1	60.08			
409	1023.1	60.91			
1270	1026.4	61.11			
1025	1028.4	61.23			
101	1039.0	61.86			
741	1045.0	62.21			
612	1048.4	62.42			
1072	1050.9	62.57			
13	1055.8	62.86			
1006	1056.0	62.87			
1095	1063.8	63.33			
1124	1064.4	63.37			
413	1066.5	63.49			
726	1077.7	64.16			
1121	1080.3	64.32			
1422	1081.7	64.40			
5	1082.6	64.45			
614	1083.6	64.51			
8	1089.0	64.83			
100	1093.4	65.10			
715	1093.5	65.10			
1381	1100.3	65.51			
1386	1100.9	65.54			
1297	1100.9	65.54			
1195	1102.7	65.65			
239	1109.0	66.02			
627	1127.4	67.12			
18	1128.6	67.19			
1081	1132.1	67.40			
1116	1154.5	68.73			
1279	1159.7	69.04			
1104	1167.1	69.48			
731	1168.4	69.56			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
763	1171.7	69.76	63.25 - 76.75	44	3040.10
1036	1177.7	70.11			
1411	1182.1	70.38			
160	1195.4	71.17			
58	1196.3	71.22			
1148	1200.0	71.44			
714	1203.0	71.62			
317	1204.1	71.69			
617	1207.3	71.88			
1320	1209.1	71.98			
1335	1210.0	72.04			
626	1219.8	72.62			
735	1220.4	72.66			
1275	1231.5	73.32			
700	1240.3	73.84			
758	1248.1	74.31			
1075	1252.6	74.57			
161	1253.8	74.64			
40	1261.2	75.09			
1318	1271.5	75.70			
261	1280.1	76.21			
1123	1291.7	76.90			
37	1304.4	77.66			
759	1313.2	78.18			
1324	1314.6	78.26			
609	1328.6	79.10			
1277	1334.9	79.47			
34	1349.0	80.31			
1407	1354.7	80.65			
33	1361.7	81.07			
1184	1364.4	81.23			
1030	1372.5	81.71			
622	1384.9	82.45			
1059	1413.2	84.13			
1110	1414.5	84.21			
1114	1421.5	84.63			
410	1429.1	85.08			
1004	1429.8	85.12			
1404	1432.4	85.28			
1026	1448.0	86.21			
1131	1452.6	86.48			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
1128	1455.3	86.64	76.75 - 90.25	28	2344.49
120	1466.9	87.33			
1391	1469.3	87.47			
1265	1478.7	88.03			
756	1483.8	88.34			
183	1502.2	89.43			
767	1502.6	89.46			
156	1505.6	89.64			
1393	1519.5	90.46			
132	1538.7	91.61			
1219	1541.6	91.78			
1037	1543.1	91.87			
739	1546.9	92.09			
631	1547.8	92.15			
1087	1571.2	93.54			
1722	1574.1	93.71			
117	1578.1	93.95			
1138	1588.2	94.55			
743	1588.6	94.58			
1066	1592.0	94.78			
745	1596.7	95.06			
1097	1596.9	95.07			
178	1610.9	95.90			
121	1620.6	96.48			
1303	1621.8	96.55			
1400	1623.7	96.67			
46	1635.0	97.34			
623	1678.9	99.95			
106	1692.8	100.78			
616	1694.9	100.91			
1274	1695.2	100.92			
270	1696.5	101.00			
1080	1701.1	101.27	90.25 - 103.75	27	2598.58
760	1713.0	101.98			
430	1740.2	103.60			
1267	1755.8	104.53			
1326	1761.3	104.86			
23	1770.9	105.43			
1149	1787.8	106.44			
3	1796.7	106.97			
1251	1801.7	107.26			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
1145	1807.7	107.62	103.75 - 130.25	27	3143.67
761	1835.3	109.26			
1057	1859.6	110.71			
750	1886.4	112.31			
1133	1894.3	112.78			
1243	1899.6	113.09			
1016	1937.4	115.34			
1312	1969.9	117.28			
128	1970.8	117.33			
228	1993.7	118.69			
1086	2006.0	119.43			
264	2021.5	120.35			
1365	2045.2	121.76			
1317	2069.9	123.23			
418	2071.2	123.31			
721	2104.2	125.27			
133	2135.5	127.14			
159	2139.0	127.35			
1061	2145.1	127.71			
619	2158.7	128.52			
1289	2178.6	129.70			
1127	2205.8	131.32			
773	2214.2	131.82			
400	2223.9	132.40			
1383	2235.3	133.08			
603	2245.9	133.71			
1074	2247.3	133.79			
1421	2254.4	134.22			
1062	2280.9	135.79			
66	2303.0	137.11			
1257	2322.0	138.24			
1011	2373.0	141.28			
2	2380.3	141.71			
189	2387.5	142.14			
737	2406.8	143.29			
1130	2412.1	143.60	130.25 - 156.75	20	2790.41
729	2420.6	144.11			
411	2438.1	145.15			
754	2456.3	146.24			
615	2493.3	148.44			
764	2569.4	152.97			

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT (gm)	SCALED-UP WEIGHT (lbs)	WEIGHT INTERVAL (lbs)	NUMBER OF PIECES	TOTAL WEIGHT (lbs)
1247	2661.0	158.42	156.75 - 210.25	14	2493.68
1176	2730.8	162.58			
1035	2787.1	165.93			
1259	2788.2	166.00			
1402	2806.6	167.09			
1015	2817.6	167.75			
1364	2930.3	174.46			
163	3000.4	178.63			
403	3010.0	179.20			
733	3198.0	190.39			
1255	3233.7	192.52			
1424	3298.1	196.35			
621	3298.6	196.38			
1112	3325.6	197.99			
1033	3573.2	212.73			
1067	3629.0	216.05			
408	3855.0	229.51			
1336	3856.0	229.57			
604	4082.0	243.02			
755	4082.0	243.02			
4	4536.0	270.05			
431	4536.0	270.05			
1115	4763.0	283.57			
728	4763.0	283.57			
1109	4763.0	283.57			
1005	4763.0	283.57			
1065	4990.0	297.08			
1047	5216.0	310.53			
1142	6124.0	364.59			
1055	7031.0	418.59			
722	9525.0	567.07	> 210.25	18	6558.92
420	26082.0	1552.79			
Totals	682689.7	40643.93		852	40643.93

3.6 SORTED BY RANGE

The database from Subsection 3.4 was sorted by range from nearest to farthest to generate the data presented in this subsection.

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
100	1093.4	-2558	-6417	11362	332.03
1057	1859.6	-3461	8057	13060	38.09
101	1039.0	-5316	-6442	13738	318.56
1121	1080.3	6357	14338	14345	88.16
2	2380.3	-5585	7211	14347	30.17
48	285.2	-6483	6598	14847	19.94
46	1635.0	-4788	9635	15084	35.45
1120	513.0	4497	15802	15972	81.64
600	374.8	18923	-10603	16092	221.22
47	245.4	-6306	9344	16111	26.38
1122	1574.1	6672	16631	16632	89.50
1060	931.6	-4242	12583	16752	48.69
1058	992.7	-5815	11890	17348	43.26
102	207.4	-6349	-11627	17566	317.78
400	2223.9	20956	10599	17669	143.14
1059	1413.2	-6301	12077	17832	42.63
42	396.3	-7487	11211	18175	34.40
43	304.1	-8284	10342	18304	35.73
41	423.1	-7492	11442	18322	38.09
1118	820.0	359	17171	18345	69.39
3	1796.7	-9173	9100	18399	29.64
45	345.0	-8407	10788	18659	39.70
1062	2280.9	-7329	12213	18690	40.80
1061	2145.1	-4073	15428	18884	54.78
44	382.1	-8714	11175	19134	35.32
171	433.8	-11568	-6988	19669	337.31
767	1502.6	-5021	-15891	19816	306.69
105	203.8	-7084	-14128	19821	335.13
1311	563.9	13655	18722	19931	110.06
104	379.4	-6870	-14488	19932	314.54
401	253.4	22882	11988	20045	143.27
103	693.3	-8230	-13653	20318	313.37
1119	422.5	-2522	18204	20461	62.84
155	808.8	-13442	-3470	20555	321.43
1117	878.9	950	20058	20898	73.69
402	448.6	23335	12887	20950	142.04
704	274.7	993	-20314	21132	286.00
4	4536.0	-10810	11794	21210	33.79
1116	1154.5	3898	21108	21309	82.12
1	857.2	-13981	4672	21317	12.66
1123	1291.7	6508	22397	22400	89.21

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1363	164.9	19441	18635	22508	124.11
106	1692.8	-13625	-9475	22532	344.38
49	429.8	-14434	7711	22608	10.10
601	468.4	21307	-17610	22804	230.55
38	199.8	-15959	2394	22903	6.00
39	522.9	-16068	2743	23049	15.10
170	515.5	-14312	-10108	23423	339.19
107	404.4	-15813	-6329	23500	348.71
1063	1000.8	-9866	16654	23574	44.95
1312	1969.9	16619	21461	23593	114.55
1115	4763.0	-257	22574	23656	72.60
1065	4990.0	-5762	20183	23783	58.06
1410	757.4	24076	16379	23793	136.50
40	1261.2	-16278	6232	23922	38.65
1064	734.5	-9764	18237	24649	47.72
1066	1592.0	-5138	21711	24785	61.16
169	342.8	-15359	-11163	24829	334.43
168	252.3	-14226	-13350	24921	333.28
156	1505.6	-12755	-15606	25033	322.26
706	901.0	5377	-25157	25198	273.28
108	214.5	-17992	-4955	25300	353.09
1135	416.6	4950	25379	25448	85.79
1067	3629.0	-5198	22676	25663	62.08
1068	609.6	-4774	22940	25702	63.19
157	721.4	-13509	-15734	25704	321.88
707	448.5	3773	-25773	25952	276.74
158	906.0	-13626	-16041	25986	318.22
1114	1421.5	-3153	24003	25991	67.44
1125	515.6	2355	25627	26013	80.12
1314	838.6	11175	25719	26085	99.61
109	253.9	-19186	-3153	26194	357.82
705	931.0	-6292	-22690	26206	300.02
1126	673.8	-1179	25052	26297	72.30
37	1304.4	-19632	455	26454	0.99
50	277.1	-19294	4653	26523	16.98
1362	738.2	18272	24076	26662	115.44
1411	1182.1	19958	23260	26715	119.46
1124	1064.4	3007	26446	26720	81.80
1069	573.1	-6491	23278	26814	60.24
1127	2205.8	-1854	25414	26853	71.16
1070	637.2	-5961	23797	27012	61.76

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
160	1195.4	-14665	-16465	27067	321.62
110	178.5	-20276	-1030	27114	354.53
602	566.1	15766	-25645	27161	250.77
1361	211.3	12702	26551	27195	102.50
708	622.5	1041	-26648	27267	282.23
162	342.0	-15292	-16009	27297	318.04
116	922.8	-16967	-13660	27429	332.99
35	320.8	-20624	1341	27474	2.80
123	385.8	-19045	-9327	27493	342.87
124	318.2	-19490	-8108	27529	340.79
159	2139.0	-13719	-18349	27540	322.53
117	1578.1	-17814	-12557	27648	331.37
173	231.2	-18584	-11023	27690	340.50
161	1253.8	-14896	-17197	27700	324.09
1313	547.6	15946	26370	27905	109.09
1113	550.7	-5259	25248	27988	64.44
36	495.7	-21302	-18	28120	359.96
125	461.4	-19818	-9279	28206	327.15
118	185.7	-17968	-13532	28239	333.53
404	333.9	33351	9796	28283	159.74
167	242.4	-15590	-17268	28289	327.61
172	110.2	-19546	-11024	28576	336.54
1134	709.3	2911	28567	28833	82.21
120	1466.9	-19512	-11859	28877	332.38
174	169.1	-20465	-9662	28943	341.06
1128	1455.3	-2428	27504	29017	71.42
51	221.6	-20971	8485	29055	24.24
175	203.6	-21063	-9569	29478	338.70
1133	1894.3	3267	29331	29545	83.10
115	710.8	-18581	-15177	29588	330.13
111	210.9	-22644	-2819	29597	349.35
1112	3325.6	-5738	26840	29631	64.93
711	422.1	-505	-28742	29661	284.29
1129	737.8	-2560	28162	29682	71.58
1071	564.0	-12822	22266	29690	48.59
1072	1050.9	-13556	21668	29742	46.76
1073	524.0	-13747	21560	29795	46.35
1110	1414.5	-5354	27208	29807	65.90
164	394.1	-16693	-18359	29830	322.42
163	3000.4	-15381	-19960	29852	322.02
709	160.9	3726	-29694	29855	275.94

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
165	361.4	-16855	-18217	29871	322.23
122	238.6	-20066	-13113	29912	340.17
403	3010.0	34222	12045	29934	156.27
5	1082.6	-15809	19639	29961	40.96
112	139.0	-22701	-5552	30036	348.47
1132	634.0	3225	29857	30073	83.14
710	766.9	2540	-29774	30079	278.18
119	420.1	-20183	-13442	30162	335.75
1074	2247.3	-14390	21504	30203	45.40
121	1620.6	-20081	-14077	30360	334.00
1111	546.4	-7080	27040	30403	62.80
176	197.5	-21672	-11107	30579	342.73
1280	364.3	4921	30821	30879	86.48
1382	392.3	32182	-17730	30947	214.95
1315	289.6	11042	30661	30951	97.84
702	262.1	-4299	-29306	31344	290.77
34	1349.0	-23274	8804	31353	16.31
703	368.9	-4116	-29386	31354	290.41
127	933.4	-17999	-19232	31397	319.04
113	217.2	-23995	-6284	31447	349.51
1364	2930.3	28244	23052	31471	132.91
1130	2412.1	-6386	28836	31715	65.40
603	2245.9	27325	-24496	31946	230.06
126	402.3	-20118	-17394	32064	322.23
712	394.0	-8569	-28223	32144	298.60
1075	1252.6	-11050	26935	32323	56.44
1381	1100.3	33708	-17991	32354	213.78
152	321.8	-22463	-14129	32512	334.13
1359	272.0	9161	32667	32751	94.10
405	734.9	38815	7314	32822	167.12
151	286.1	-20782	-17790	32836	334.24
179	385.9	-25996	-2033	32877	357.34
1109	4763.0	-5420	30607	32963	68.21
1360	423.8	11148	32705	32990	97.54
114	275.7	-25776	-6036	33148	329.14
177	220.7	-24898	-9860	33214	343.68
1316	430.5	14431	32344	33228	103.25
1076	791.1	-12969	26738	33263	53.50
153	181.4	-23125	-14520	33278	335.90
128	1970.8	-18350	-21848	33328	317.54
6	717.1	-19420	20682	33409	38.25

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
700	1240.3	-3351	-31842	33426	287.71
9	308.4	-20359	19678	33553	35.91
154	198.2	-23836	-13715	33582	350.28
716	398.0	-1189	-32715	33680	283.75
1079	566.7	-10594	28871	33715	58.91
1131	1452.6	3241	33716	33906	83.94
129	391.0	-18220	-22909	33937	318.47
701	614.5	-3334	-32454	34005	287.37
1078	597.7	-11609	28896	34272	57.47
742	349.3	-2768	-33097	34457	286.15
8	1089.0	-21225	20074	34487	35.60
1077	912.3	-15505	26288	34487	49.66
1108	880.1	-6255	31989	34558	67.77
178	1610.9	-26365	-9714	34576	356.46
7	474.1	-19987	21945	34642	39.31
130	385.8	-19141	-22988	34675	319.82
604	4082.0	30244	-25763	34821	227.72
150	464.4	-23186	-18201	35093	327.20
1107	357.0	-8829	31427	35106	63.53
1106	363.2	-8899	31485	35190	63.47
717	476.3	4871	-35188	35242	273.17
10	235.3	-21724	20686	35250	35.93
605	746.8	28895	-27503	35268	231.25
1105	418.8	-8591	31827	35361	64.17
181	427.9	-28456	-2771	35382	355.51
33	1361.7	-26910	10754	35401	17.68
715	1093.5	-7249	-32559	35468	293.37
188	174.2	-26208	-13043	35509	338.45
131	288.3	-20664	-23212	35973	320.17
713	596.5	-9472	-32149	36040	296.87
185	162.5	-28291	-8172	36047	346.90
714	1203.0	-11557	-31090	36115	300.58
718	519.4	2110	-35866	36173	277.48
1250	350.7	5264	36402	36435	87.56
149	253.4	-24349	-18929	36465	328.76
184	89.5	-29241	-5592	36490	351.19
744	385.1	2159	-36197	36496	277.33
132	1538.7	-21380	-23516	36717	316.19
135	302.5	-18422	-26678	36726	313.52
1365	2045.2	30848	27846	36781	130.79
133	2135.5	-19803	-25535	36888	316.54

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
148	326.8	-24718	-19303	36975	328.73
190	293.1	-27882	-13219	37132	339.15
186	122.4	-28918	-10126	37143	344.18
743	1588.6	1968	-36843	37161	277.50
183	1502.2	-30266	-3240	37225	355.01
134	324.9	-20267	-25667	37315	313.41
1080	1701.1	-15275	30119	37354	53.74
57	593.1	-30506	2181	37387	1.34
138	204.8	-20689	-25735	37669	319.09
745	1596.7	3054	-37489	37678	275.73
187	217.2	-29752	-9150	37698	345.95
140	308.1	-22412	-24026	37837	322.11
182	505.7	-31021	-1111	37855	358.32
136	630.8	-19339	-27548	37988	316.35
1104	1167.1	-7513	35442	38230	67.98
139	463.1	-22147	-25097	38325	320.58
252	232.8	-18582	-28719	38340	311.49
137	520.9	-20958	-26499	38389	316.91
1081	1132.1	-16754	30386	38458	52.20
1082	521.6	-17194	30119	38519	51.44
606	518.5	25912	-33467	38530	240.29
193	327.2	-29788	-12049	38538	341.78
1103	738.5	-7419	35852	38575	68.34
1102	376.5	-6597	36191	38597	69.66
189	2387.5	-29598	-13344	38784	339.88
141	764.8	-23889	-23899	38911	326.16
1368	139.8	17119	37673	39056	105.29
1366	387.3	24071	35042	39059	116.21
32	215.7	-28812	16116	39105	24.34
1367	201.5	17542	37611	39110	105.91
194	150.2	-30732	-11577	39294	342.86
1317	2069.9	18850	37471	39355	107.80
746	566.2	3210	-39201	39367	275.26
142	979.3	-25896	-21935	39387	316.83
1318	1271.5	21110	36962	39629	111.14
255	192.0	-23876	-25624	39984	320.14
1358	823.9	7438	40119	40124	90.89
256	601.3	-24732	-24915	40202	321.70
248	172.1	-25606	-23834	40242	323.68
747	390.1	2459	-40093	40330	276.20
1094	825.5	-7402	37818	40403	69.39

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
30	362.3	-28173	20425	40516	30.27
1084	335.0	-16768	33051	40604	54.49
195	159.7	-31630	-13063	40607	341.23
143	202.2	-22806	-27789	40618	314.85
1101	663.3	-8979	37445	40641	67.13
1355	320.4	11587	40460	40740	96.72
1383	2235.3	41155	-21999	40780	212.65
1083	456.7	-16364	33624	40841	55.42
200	231.2	-33922	-3410	40882	355.22
406	373.2	44290	16380	40896	156.39
201	203.3	-33943	-3458	40907	355.15
1357	325.0	9906	40801	40917	94.33
1319	475.6	20913	38447	40950	110.13
720	655.0	-9994	-37404	41009	294.20
1174	595.6	1357	40783	41147	82.37
1099	1003.7	-2136	40179	41165	77.44
722	9525.0	-13789	-35685	41208	300.00
1282	347.9	-13920	35677	41266	59.83
1356	183.1	11077	41052	41273	95.92
147	215.4	-26663	-24443	41454	328.53
1093	731.9	-12581	36792	41593	62.20
254	201.1	-25023	-27000	41748	319.70
1092	546.4	-16230	34869	41798	56.54
1100	402.4	15	41294	41850	80.65
748	812.4	4496	-41929	41993	273.17
250	242.4	-21461	-31119	42049	312.26
1095	1063.8	-6383	39948	42072	71.71
199	130.0	-34665	-7370	42133	349.93
29	317.2	-28151	23692	42239	34.12
196	422.0	-33960	-11055	42250	344.83
197	159.5	-34061	-11070	42352	344.85
192	335.4	-32155	-17105	42562	336.30
253	210.1	-24310	-29262	42723	316.77
1136	369.5	5573	42788	42806	88.33
1085	847.9	-21622	32042	42843	48.41
721	2104.2	-10390	-39280	42884	293.66
608	621.0	22922	-39939	43063	248.04
247	178.7	-28061	-25266	43069	324.08
31	211.3	-34068	13694	43118	18.52
737	2406.8	-6449	-41188	43273	287.85
249	363.1	-22070	-32224	43277	311.87

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1320	1209.1	15540	42517	43403	101.59
741	1045.0	1131	-43066	43440	277.52
52	208.6	-32809	17842	43459	13.46
144	316.5	-23850	-30832	43488	319.89
1091	224.6	-14977	37780	43616	60.02
1086	2006.0	-23145	31721	43635	46.63
198	304.6	-35222	-11853	43679	344.25
202	396.0	-36712	-4070	43720	354.66
1098	899.7	-2345	42780	43750	77.91
203	701.5	-36740	-5268	43875	353.10
738	467.3	-3933	-42547	43885	284.18
1173	813.1	-5590	42160	43948	73.60
251	310.8	-22202	-33189	44087	311.17
191	181.6	-31074	-22743	44193	329.03
607	403.4	19908	-42243	44224	252.78
1321	348.9	16579	43148	44238	102.75
145	241.8	-27032	-28514	44259	316.00
1137	998.4	1230	43911	44265	82.75
736	856.9	-9016	-41606	44517	290.84
56	332.0	-32148	22086	44790	3.34
423	415.7	51599	1544	44807	178.02
609	1328.6	26632	-40470	45060	243.91
1281	409.6	-5913	43236	45071	73.59
245	297.8	-31268	-24129	45086	327.64
735	1220.4	-12868	-40678	45191	295.82
204	400.8	-38175	-4518	45219	354.27
206	493.2	-37766	-8066	45307	349.75
246	119.4	-32002	-23431	45344	328.89
244	277.5	-30877	-25358	45431	326.07
725	741.5	-21902	-35354	45550	309.09
739	1546.9	-4694	-44106	45583	284.63
766	381.8	-21637	-35726	45673	308.54
407	359.3	49553	16476	45801	158.92
1175	469.1	-1575	45145	45919	79.47
242	172.6	-34679	-19910	46026	334.37
205	822.1	-39042	-4299	46061	354.64
1143	263.4	-6258	44284	46174	73.55
1139	482.7	5072	46182	46215	87.84
724	634.9	-19661	-38177	46461	304.74
53	311.6	-38486	10844	46583	27.17
1354	511.8	8184	46594	46614	91.68

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
729	2420.6	-14972	-41235	46638	297.85
1138	1588.2	5662	46669	46684	88.58
424	250.0	52919	7468	46702	170.80
731	1168.4	-12612	-42487	46719	294.58
1090	544.9	-17895	39810	46857	58.17
241	380.6	-35317	-20726	46957	333.81
740	615.4	-1383	-46285	47005	280.05
1096	960.5	-5430	45386	47010	74.90
237	229.8	-37538	-15713	47057	340.49
1344	229.6	25478	43317	47165	113.31
1089	288.9	-18155	40056	47203	58.06
1324	1314.6	14482	46592	47218	99.34
732	425.9	-10162	-44079	47237	291.07
1323	755.2	15111	46589	47321	100.09
257	147.9	-31495	-27834	47356	324.00
1165	309.4	-19347	39501	47381	56.48
1087	1571.2	-26912	33387	47460	44.71
243	562.5	-33026	-25990	47571	326.88
74	212.7	-36950	18741	47612	325.61
236	137.6	-37060	-18546	47637	337.09
734	900.9	-9330	-44859	47677	289.80
1345	563.3	22960	44864	47680	109.79
1322	521.5	15967	46795	47681	101.06
1142	6124.0	-1515	47092	47824	79.97
238	333.2	-39302	-12883	47885	344.39
1088	353.4	-23761	36892	47918	50.35
610	565.8	27363	-43332	47956	244.63
1412	193.4	10221	48000	48120	94.06
749	294.1	3983	-48169	48252	273.37
1144	317.1	-8945	45697	48339	70.97
207	184.8	-41390	-4580	48425	354.57
727	776.9	-20663	-40051	48573	304.46
1325	719.7	8811	48611	48652	92.35
258	288.3	-32325	-29038	48738	323.43
1164	566.9	-23931	37871	48782	50.93
1326	1761.3	8268	48778	48800	91.70
1166	312.5	-15258	43559	48834	63.12
11	717.4	-32310	29229	48840	36.76
58	1196.3	-42148	1146	48980	2.92
235	433.7	-38425	-18883	49026	337.35
146	550.5	-28494	-34101	49090	323.87

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
728	4763.0	-18364	-42227	49165	300.81
1384	996.3	45449	-30429	49176	218.23
231	727.7	-39062	-17892	49246	338.70
1163	407.7	-21338	40482	49311	55.18
208	177.9	-42281	-4738	49327	354.49
230	91.7	-39221	-17878	49389	338.78
304	139.6	-30784	-32028	49394	319.58
1097	1596.9	-2338	48579	49435	79.33
209	205.6	-42464	-5649	49605	353.46
305	137.0	-31627	-31379	49625	320.78
733	3198.0	-10334	-46635	49689	290.19
726	1077.7	-23197	-39671	49746	307.11
1162	618.4	-17542	43378	49750	60.68
59	560.8	-42936	2539	49819	13.79
1141	510.2	2570	49961	50141	85.14
1353	382.8	9154	50251	50305	92.66
233	125.6	-40618	-16878	50349	340.41
1232	400.9	-9633	47687	50358	71.25
425	934.5	55330	14158	50536	163.73
1147	453.3	-4462	49463	50733	77.15
408	3855.0	56209	12061	50842	166.28
1328	524.4	19151	49328	50847	104.04
1140	933.5	4579	50859	50908	87.48
1351	534.6	15568	50374	51129	99.85
234	236.5	-40863	-18817	51259	338.46
1352	467.8	9408	51244	51309	92.89
750	1886.4	5033	-51298	51329	271.99
1145	1807.7	-7073	49614	51522	74.36
1172	257.1	-6906	49721	51580	74.57
259	118.2	-32917	-33150	51747	320.16
1146	843.5	-7078	49969	51865	74.46
1241	605.3	-14526	47400	51984	65.76
1148	1200.0	-10065	49201	52017	71.06
409	1023.1	58712	4330	52074	175.23
1251	1801.7	697	51791	52151	83.26
1387	463.6	56260	-17913	52587	199.92
1343	351.0	30882	46767	52595	117.23
67	195.0	-41549	20917	52696	20.38
306	173.7	-34846	-32355	52751	322.17
1168	285.7	-11178	49765	52919	70.12
1327	907.0	18048	51858	53060	102.22

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1386	1100.9	56319	-19228	53104	201.23
612	1048.4	17622	-52135	53243	258.29
230	581.5	-43924	-16277	53288	342.21
217	504.9	-45879	-8744	53417	350.58
611	625.6	18670	-52160	53489	257.20
12	350.0	-35227	33206	53576	38.30
1255	3233.7	3073	53517	53648	86.00
210	496.7	-46776	-3488	53707	356.28
13	1055.8	-35852	32724	53774	37.48
229	258.2	-43812	-18347	53852	340.08
1233	344.5	-3233	52982	53927	79.26
27	387.8	-37688	30520	53965	34.44
1235	200.8	-7338	52159	54046	74.82
28	878.7	-42366	22740	54186	24.81
1252	678.1	5595	54342	54356	88.71
1160	890.6	-19166	47746	54358	61.44
224	438.0	-45159	-16000	54384	342.89
225	195.5	-46418	-11213	54404	348.11
1161	536.2	-19843	47506	54476	60.70
1328	477.8	18089	53341	54519	101.93
1169	550.7	-7457	52843	54737	74.88
426	442.0	53627	28375	54738	148.78
211	459.8	-47754	-5721	54871	354.02
1256	402.3	2232	54719	54910	85.21
228	1993.7	-45392	-17307	55003	341.66
226	104.2	-47199	-10714	55069	348.78
14	806.9	-34633	36333	55120	41.24
1239	293.8	-13187	51374	55132	68.72
1176	2730.8	-4119	54089	55184	78.57
1259	2788.2	-1739	54580	55246	81.09
279	95.5	-40117	-29296	55328	328.03
751	619.7	3577	-55294	55389	273.35
1177	756.8	-3610	54629	55616	79.19
212	98.4	-48436	-7502	55761	352.27
227	232.5	-47873	-11230	55832	348.40
1237	187.9	-9504	53481	55916	73.03
1236	250.8	-8480	53855	55985	74.14
222	138.2	-47027	-16065	56190	343.39
17	440.9	-37941	33993	56203	37.22
223	571.5	-46678	-17296	56222	342.08
18	1128.6	-38558	33199	56224	36.19

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1342	500.9	34123	49154	56228	119.05
73	259.8	-39184	32378	56254	23.18
1260	588.4	520	55977	56330	83.58
1350	473.7	18496	55136	56359	101.96
1257	2322.0	1697	56195	56428	84.79
752	635.4	-2379	-55685	56439	279.38
1240	493.9	-18333	50550	56461	63.55
1258	612.9	582	56142	56488	83.66
1178	537.8	-4199	55435	56520	78.76
1234	211.0	-4443	55440	56572	78.52
310	253.0	-45445	-21673	56579	337.48
308	106.7	-46408	-19229	56593	340.14
309	223.2	-46650	-18627	56619	340.79
19	728.9	-40854	30562	56627	32.66
213	552.1	-49537	-5799	56653	354.12
1413	491.8	17481	55863	56872	100.81
280	110.6	-41594	-29854	56877	328.34
1167	417.0	-11477	54043	57056	71.30
1349	281.2	20478	55580	57234	103.81
267	278.1	-37830	-35819	57240	321.26
15	901.6	-38030	35583	57249	38.43
1001	359.1	-18120	-51562	57277	295.81
1238	317.1	-11230	54455	57368	71.66
1179	428.9	-4646	56220	57377	78.47
16	383.8	-38166	35618	57378	38.37
1253	623.9	3813	57413	57491	87.00
1170	539.7	-7485	55804	57608	75.62
239	1109.0	-50564	-5695	57664	354.33
307	225.1	-46685	-21614	57704	338.00
240	758.2	-50701	-5566	57788	354.47
1254	837.0	2655	57692	57842	85.87
221	718.3	-48678	-16391	57866	343.55
281	151.3	-43343	-28942	57912	330.02
1283	237.8	-15912	53686	58300	67.05
613	752.2	20451	-56762	58376	256.49
1149	1787.8	-11943	55402	58493	71.29
220	156.5	-49686	-15324	58545	344.83
1152	497.1	-15024	54397	58619	68.12
1150	676.5	-9929	56275	58714	73.43
60	381.5	-50523	14077	59044	23.43
1171	428.5	-10143	56577	59065	73.31

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1284	369.3	-15593	54748	59158	67.74
1054	335.9	29400	-54696	59174	247.57
290	843.1	-46974	-24698	59191	335.34
286	105.3	-45654	-27599	59288	332.26
1388	904.9	62235	-21309	59373	201.03
1414	640.1	15017	59042	59608	97.91
1415	341.8	15562	58973	59617	98.43
1261	497.0	-1461	59065	59642	82.02
287	154.4	-45553	-28661	59700	331.31
1157	222.2	-19718	53502	59721	63.62
289	129.5	-47142	-26300	60028	334.02
266	332.6	-40018	-37575	60046	319.35
216	342.5	-52620	-8670	60067	351.70
1158	311.7	-19564	54006	60106	63.96
1153	587.2	-19150	54212	60111	64.40
1154	350.7	-19152	54212	60112	64.40
291	339.2	-47822	-25073	60119	335.35
285	190.2	-46698	-27465	60152	332.83
1156	293.0	-19768	54089	60270	63.83
276	356.7	-42931	-34291	60422	332.52
282	198.7	-45267	-30698	60458	329.49
277	79.0	-43788	-33248	60551	325.42
1151	147.0	-11384	57816	60613	72.52
278	35.4	-44627	-32110	60643	328.03
410	1429.1	64412	19078	60671	161.67
288	113.3	-46626	-28736	60680	331.73
1155	376.3	-20941	54557	61213	63.03
284	162.5	-47140	-29013	61264	331.73
318	517.3	-52980	-13903	61393	346.91
1331	513.0	20948	59920	61563	103.27
219	220.1	-53564	-12376	61637	348.42
1263	485.6	1108	61538	61803	84.70
320	170.5	-52607	-17069	61827	343.97
1183	383.0	-9923	59607	61913	74.31
1184	1364.4	-4691	60925	62003	79.30
1159	362.8	-22779	54574	62083	61.53
260	266.1	-39619	-41271	62126	318.37
1341	138.9	38628	53418	62172	120.77
1182	252.5	-8240	60439	62287	76.01
1416	666.0	14846	61806	62325	97.40
1287	254.2	-23888	54236	62325	60.48

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1185	558.4	-4478	61345	62377	79.57
1186	907.1	-4477	61346	62377	79.57
1181	322.7	-7775	60772	62499	76.50
1180	529.4	-6714	61075	62556	77.51
214	521.1	-56052	-1414	62886	358.71
1262	916.3	-2868	62142	62892	81.14
1330	259.5	22166	60996	62897	104.12
1249	580.7	-15702	58783	62949	69.04
293	233.4	-51814	-23786	63273	337.92
265	452.6	-41215	-41248	63313	316.69
311	593.1	-53120	-20690	63408	340.96
1264	378.8	-5662	62479	63713	78.70
283	540.6	-49246	-30288	63722	331.62
215	152.8	-56921	-3102	63815	357.21
437	285.0	69505	13442	64112	167.90
292	220.4	-52537	-25362	64547	336.86
317	1204.1	-56777	-12986	64907	348.46
218	407.9	-57638	-7984	64949	352.94
319	668.6	-55592	-18254	65025	343.70
764	2569.4	-26537	-55956	65143	300.80
1348	188.1	19452	63917	65154	101.18
1002	429.7	-9390	-63134	65181	284.40
268	133.2	-46720	-37294	65247	321.26
1265	1478.7	-6780	64143	65568	78.03
1285	383.0	-25071	57471	65726	60.98
1286	318.6	-25329	57366	65759	60.73
1347	380.7	20077	64437	65787	101.63
411	2438.1	69658	19613	65830	162.67
1290	463.9	-36497	49671	65905	48.91
25	637.5	-50394	32923	66009	29.92
299	136.4	-52423	-29541	66198	333.50
1055	7031.0	37409	-58724	66214	242.48
1288	274.5	-31082	54375	66280	55.12
261	1280.1	-38827	-48122	66368	313.52
262	256.9	-39161	-48153	66580	313.68
765	458.4	-20052	-61023	66669	293.75
26	564.6	-52800	30169	66816	26.84
1247	2661.0	-18976	61974	67127	67.40
72	176.9	-48124	38787	67254	35.14
61	638.0	-55146	26853	67533	30.98
614	1083.6	20238	-66203	67549	258.54

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1003	371.2	-15827	-63652	67560	289.58
1289	2178.6	-35910	52456	67656	50.84
316	574.4	-60432	-8023	67727	353.20
1346	286.4	19782	66494	67746	101.03
1417	712.9	14685	67288	67746	96.67
1266	627.4	-7196	66294	67759	78.06
1248	289.3	-18923	62695	67774	67.68
294	258.6	-54841	-28605	67971	335.11
303	163.1	-56993	-23895	68138	339.47
638	1009.1	16374	-67570	68242	261.95
412	239.3	73097	16794	68374	165.78
264	2021.5	-43062	-47013	68544	316.69
1242	581.4	-32333	56630	68846	55.34
302	813.2	-58784	-22459	69340	341.10
64	614.2	-58514	23773	69523	7.57
1268	476.7	-10161	67442	69547	75.87
615	2493.3	19551	-68393	69568	259.45
1004	1429.8	-11171	-67346	69707	284.95
1401	355.8	76583	-3144	69836	182.58
263	685.5	-40441	-51436	69850	312.58
54	247.6	-55338	31909	69868	27.02
1243	1899.6	-33895	56811	69893	54.37
1053	729.2	25700	-67494	70086	254.37
274	776.9	-51651	-38770	70155	324.68
640	981.0	47948	-57037	70320	234.20
1400	1623.7	70366	-30499	70488	205.64
1418	401.6	17545	69681	70502	98.75
1245	283.3	-32075	58944	70619	56.58
295	131.5	-56570	-31148	70628	333.83
1267	1755.8	-8797	68884	70631	77.23
298	177.0	-55685	-33140	70745	332.07
1419	429.1	16016	70275	70874	97.46
616	1694.9	19867	-70173	71376	259.47
1332	221.1	30069	67492	71385	109.01
1244	533.7	-33356	59091	71454	55.79
275	204.9	-56692	-33029	71585	326.45
759	1313.2	-17764	-67343	71689	290.05
71	216.3	-51589	42071	71982	35.22
1269	811.6	-17530	67828	72066	70.25
1291	327.2	-15103	68653	72068	72.29
761	1835.3	-11827	-69637	72090	284.99

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
301	315.7	-61418	-23738	72247	340.82
1420	372.3	15635	72013	72550	96.98
1292	309.5	-16564	68772	72638	71.22
617	1207.3	20554	-71362	72672	259.10
62	273.3	-56061	37751	73342	358.50
1005	4763.0	-26497	-65354	73355	7.01
760	1713.0	-11911	-71061	73488	284.77
621	3298.6	10087	-73512	73584	267.45
622	1384.9	12813	-73591	73835	265.34
1246	783.0	-29048	64886	74139	61.07
24	417.0	-57930	36231	74195	29.23
1389	521.1	74594	-30404	74284	204.16
300	239.3	-62503	-27171	74456	338.60
758	1248.1	-16491	-70851	74587	288.21
619	2158.7	12983	-74418	74673	265.26
762	818.3	-24032	-68054	74720	294.39
413	1066.5	80275	14678	74909	168.70
757	808.7	-15518	-71593	74997	287.33
20	979.0	-52387	46085	75028	37.90
620	768.3	12955	-75193	75443	265.33
68	262.6	-64053	26330	75604	23.79
65	428.1	-68505	10015	75986	4.90
756	1483.8	-15289	-72740	76025	286.90
763	1171.7	-27437	-68934	76976	296.42
637	481.7	44149	-67462	77102	241.04
1052	296.8	18242	-76266	77117	261.48
297	219.0	-60572	-38430	77578	330.31
1033	3573.2	-3280	-76997	77656	277.47
623	1678.9	12699	-77911	78133	265.68
269	126.6	-49878	-53803	78162	325.14
1270	1026.4	-13057	75653	78221	75.28
636	413.0	43695	-69027	78260	241.89
1333	591.7	26864	75748	78356	104.82
1423	702.4	16962	77859	78517	97.42
1334	156.0	26908	75961	78573	104.81
69	211.2	-65184	31736	78686	34.28
635	426.7	44460	-69279	78845	241.48
1421	2254.4	15932	78359	78887	96.63
1397	276.7	85027	-12713	79235	189.23
1335	1210.0	22848	77776	79411	101.65
1396	889.1	85667	-9940	79473	187.19

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
315	415.9	-72516	-7733	79710	354.43
21	606.4	-55779	49583	79855	38.38
625	1008.9	19188	-79039	80001	261.10
624	792.5	13969	-79799	80119	264.88
1422	1081.7	15925	79690	80208	96.52
312	951.6	-69145	-26254	80371	340.93
618	322.6	3396	-80319	80392	272.44
296	688.3	-66526	-33078	80458	335.72
1051	305.2	12792	-80753	80974	265.77
273	133.4	-59332	-46879	81077	320.29
314	469.9	-70968	-23189	81169	343.40
427	188.3	71136	49902	81406	142.19
435	143.2	86578	16475	81444	168.33
270	1696.5	-56629	-51361	81630	316.50
626	1219.8	16938	-81041	81670	262.88
1034	581.9	7306	-81930	81932	269.66
433	183.5	81101	35371	82274	154.54
431	4536.0	82045	33707	82434	155.86
1336	3856.0	17119	81915	82560	97.17
1340	599.4	33789	78059	82587	109.06
22	886.1	-59171	49732	82631	37.00
414	438.8	89422	7026	82903	175.14
432	911.9	83963	30677	83021	158.31
1408	771.3	89418	9347	83127	173.54
1279	1159.7	4218	83133	83174	88.21
1337	207.5	18718	82768	83619	98.18
55	217.5	-68028	38163	84014	29.54
1391	1469.3	84130	-33818	84385	203.63
436	319.8	90165	16053	84879	169.10
627	1127.4	15479	-84445	84888	264.14
1338	244.3	21096	83978	85183	99.65
1424	3298.1	14480	85109	85453	95.14
434	190.6	89481	21833	85498	165.21
634	948.0	39515	-79105	85597	247.54
1006	1056.0	-17312	-82951	86390	286.22
628	923.7	15903	-86120	86598	263.98
629	571.2	15903	-86121	86599	263.98
1007	235.5	-25795	-80258	86631	292.11
1272	724.9	-25069	80615	86692	68.42
1271	889.7	-22963	81591	86856	69.95
1339	752.3	25194	85046	87009	102.19

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1056	329.0	62937	-66739	87197	229.94
755	4082.0	-23610	-82466	87901	290.25
632	758.0	23617	-86789	88400	259.05
421	413.3	93513	19303	88818	167.45
1392	544.0	88491	-36935	89637	204.33
1273	379.2	-35405	79367	89900	61.99
1035	2787.1	6889	-90033	90033	269.95
630	806.2	15864	-89756	90211	264.24
1393	1519.5	95266	-19529	90579	192.45
1037	1543.1	9630	-90828	90871	268.23
754	2456.3	-21094	-86554	90943	287.87
1274	1695.2	-29305	83585	91057	66.63
70	177.4	-68494	51336	91145	35.77
66	2303.0	-84057	7790	91209	23.39
1402	2806.6	98412	-176	91594	180.11
1188	735.1	-84438	13903	92309	8.66
631	1547.8	12622	-92538	92720	266.41
430	1740.2	89261	42496	92751	152.73
1032	643.6	3574	-93318	93375	271.99
1031	793.3	3576	-93320	93376	271.99
1275	1231.5	-23555	89093	94128	71.18
420	26082.0	99093	19777	94371	167.90
272	279.1	-65879	-60378	94500	320.80
1008	623.9	-26993	-88878	95092	290.83
271	398.2	-66913	-60134	95144	321.01
428	514.4	81399	59736	95555	141.31
633	650.9	26547	-94254	96297	258.18
753	318.6	-25395	-90876	96417	289.52
429	801.4	85578	56106	96700	144.54
1050	323.2	17464	-96819	97402	263.72
1394	880.9	100167	-29752	97975	197.68
1009	311.3	-23746	-93506	98374	288.10
417	817.9	105026	14027	99204	171.87
1036	1177.7	10506	-99182	99250	267.87
23	1770.9	-68169	65171	99349	40.99
1407	1354.7	106763	-2618	99979	181.50
1030	1372.5	-1482	-100323	100666	274.73
1377	99.7	32414	98529	101799	104.56
1293	311.7	-18980	98652	101969	75.34
1310	724.3	-14835	101052	103346	77.91
1294	130.0	-21090	99716	103548	74.36

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
419	481.9	108078	24077	104083	166.62
1049	266.6	23959	-102666	104087	260.52
63	247.9	-97442	-2722	104296	20.00
1308	301.3	-16785	101819	104519	76.95
1025	1028.4	-16862	-102076	104787	283.06
1212	720.9	-91657	-35919	104821	339.96
1309	788.1	-15221	102508	104851	77.87
1295	196.2	-24778	100239	105101	72.50
1189	76.5	-97988	7869	105101	4.29
639	682.7	36702	-101212	105531	253.55
418	2071.2	110431	23495	106244	167.22
1038	494.8	10087	-107070	107120	268.25
1376	107.1	41179	101835	107476	108.65
1375	23.9	36592	103790	107976	106.01
1029	759.5	-5668	-107373	108097	276.63
1027	212.1	-4139	-107878	108433	275.80
1048	257.8	29014	-107297	109569	258.31
1190	364.4	-98769	29763	109701	15.74
1024	687.7	-15764	-107596	109941	281.85
1296	166.8	-28536	104310	110139	71.28
768	402.3	-26235	-105491	110548	287.40
1307	63.0	-22230	107231	111096	74.84
1023	311.6	-17533	-108488	111187	282.65
1276	607.8	4362	111450	111477	88.74
1306	257.4	-25562	107392	112167	73.22
1191	113.7	-87815	61124	112657	32.86
1304	648.4	-20718	109441	112852	75.88
769	368.5	-17423	-110625	113250	282.36
1022	441.0	-16709	-111296	113756	281.94
1047	5216.0	7072	-114601	114601	269.87
1026	1448.0	813	-114783	114940	272.99
1046	472.3	15362	-114738	115056	265.74
1405	445.3	120001	-22079	115316	191.04
1297	1100.9	-32896	108844	115863	69.95
773	2214.2	-14193	-114364	116279	280.41
1039	836.6	11405	-116206	116296	267.74
1222	283.8	-28401	-111150	116596	287.58
1305	210.2	-25587	112299	116881	73.90
1021	264.3	-7281	-116121	116974	276.92
1223	137.0	-27469	-111981	117113	287.02
1213	213.6	-105322	-33911	117156	343.17

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1020	583.9	-7044	-116377	117200	276.79
1019	307.3	-8927	-117184	118237	277.65
1219	1541.6	-85585	-76859	120190	320.25
1211	918.2	-111562	-25237	121040	347.97
1379	359.7	66662	106370	122049	119.36
1374	23.0	42264	117057	122306	106.85
1303	1621.8	-14641	120482	122379	79.90
1010	766.8	-13649	-121105	122823	279.59
1214	174.7	-112388	-32978	123684	344.54
1018	213.8	-16406	-122095	124284	280.77
1298	70.6	-39233	117277	125994	68.56
1378	600.3	67163	111160	126483	118.50
1218	62.7	-106483	-58073	127317	332.86
1045	807.3	24745	-126161	127428	261.91
1220	124.8	-51675	-113333	127538	297.30
1224	431.4	-28604	-123256	128245	286.03
772	944.6	-27036	-124010	128548	285.27
1369	922.7	29504	127846	129843	100.06
771	565.1	-31709	-124457	130283	287.20
1192	893.9	-122043	19352	130306	8.54
1373	54.4	40324	126527	130889	104.83
770	419.9	-28971	-126620	131580	285.78
1040	522.8	8340	-131759	131768	269.34
1215	567.1	-114923	-52118	132428	336.82
1016	1937.4	3346	-132814	132859	271.50
1299	157.4	-29341	127987	132997	74.22
1370	146.5	34484	130286	133191	101.99
1017	435.2	-14624	-131463	133200	279.26
1372	59.0	39174	129410	133393	104.04
1371	73.8	35625	130292	133439	102.47
1193	106.8	-126949	17089	134854	7.28
1302	892.3	-14961	134316	136070	80.79
1225	95.1	-30869	-130888	136206	286.06
1226	161.6	-30687	-131289	136541	285.94
1210	688.5	-126634	-30442	136880	347.15
1227	131.0	-30709	-133742	138907	285.67
1221	284.7	-45463	-129477	139634	291.99
1197	161.5	-134725	11718	142027	4.73
1014	314.3	-2023	-142247	142522	273.56
1404	1432.4	149622	-11011	143228	184.41
1277	1334.9	1965	143415	143497	88.06

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1194	68.7	-136812	3676	143677	1.47
1195	1102.7	-137427	7009	144416	2.78
1013	839.9	-3636	-144054	144433	274.15
1196	182.4	-139462	8718	146540	3.41
1012	653.2	-3144	-147744	148079	273.86
1015	2817.6	4056	-148623	148649	271.06
1216	52.2	-132349	-53472	149086	338.98
1044	393.1	39597	-145825	149464	257.33
1198	217.6	-142684	14317	150186	5.47
1228	136.2	-30855	-147497	152232	284.33
1043	541.9	27046	-154569	155887	262.54
1041	173.7	13585	-157077	157223	267.53
1278	220.9	-5376	158778	159245	85.61
1229	702.5	-29909	-155778	160049	283.27
1011	2373.0	-14508	-160105	161519	277.59
1230	617.3	-29409	-157755	161861	282.93
1231	235.3	-28841	-158744	162699	282.66
1217	159.9	-141016	-75073	165803	333.08
1199	387.1	-162398	13301	169738	4.49
1042	194.7	27808	-171359	172640	263.02
1200	339.1	-167385	19737	175317	6.46
1301	312.0	-10730	175450	176326	84.29
1300	602.5	-14758	175159	176483	82.98
1209	54.7	-166444	-52491	181038	343.15
1201	884.1	-183442	30280	192655	9.04
1202	61.0	-187572	31398	196910	9.18
1207	439.9	-200281	-98006	229118	334.68
1208	196.5	-200207	-98429	229233	334.57
1206	218.9	-211299	-102602	241044	334.81
1203	320.8	-236500	-69584	253073	344.04
1204	251.7	-228723	-97333	254859	337.55
1205	261.5	-244157	-113661	275512	335.64
Totals	682689.7				

3.7 SORTED BY AZIMUTH

The database from Subsection 3.4 was sorted by azimuth from 0 to 360 deg to produce the data presented in this subsection.

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
37	1304.4	-19632	455	26454	0.99
57	593.1	-30506	2181	37387	1.34
1194	68.7	-136812	3676	143677	1.47
1195	1102.7	-137427	7009	144416	2.78
35	320.8	-20624	1341	27474	2.80
58	1196.3	-42148	1146	48980	2.92
56	332.0	-32148	22086	44790	3.34
1196	182.4	-139462	8718	146540	3.41
1189	76.5	-97988	7869	105101	4.29
1199	387.1	-162398	13301	169738	4.49
1197	161.5	-134725	11718	142027	4.73
65	428.1	-68505	10015	75986	4.90
1198	217.6	-142684	14317	150186	5.47
38	199.8	-15959	2394	22903	6.00
1200	339.1	-167385	19737	175317	6.46
1193	106.8	-126949	17089	134854	7.28
64	614.2	-58514	23773	69523	7.57
1192	893.9	-122043	19352	130306	8.54
1188	735.1	-84438	13903	92309	8.66
1201	884.1	-183442	30280	192655	9.04
1202	61.0	-187572	31398	196910	9.18
49	429.8	-14434	7711	22608	10.10
1	857.2	-13981	4672	21317	12.66
52	208.6	-32809	17842	43453	13.46
59	560.8	-42936	2539	49819	13.79
39	522.9	-16068	2743	23049	15.10
1190	364.4	-98769	29763	109701	15.74
34	1349.0	-23274	8804	31353	16.31
50	277.1	-19294	4653	26523	16.98
33	1361.7	-26910	10754	35401	17.68
31	211.3	-34068	13694	43118	18.52
48	285.2	-6483	6598	14847	19.94
63	247.9	-97442	-2722	104296	20.00
67	195.0	-41549	20917	52696	20.38
73	259.8	-39184	32378	56254	23.18
66	2303.0	-84057	7790	91209	23.39
50	381.5	-50523	14077	59044	23.43
68	262.6	-64053	26330	75604	23.79
51	221.6	-20971	8485	29055	24.24
32	215.7	-28812	16116	39105	24.34
28	878.7	-42366	22740	54186	24.81

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
47	245.4	-6306	9344	16111	26.38
26	564.6	-52800	30169	66816	26.84
54	247.6	-55338	31909	69868	27.02
53	311.6	-38486	10844	46583	27.17
24	417.0	-57930	36231	74195	29.23
55	217.5	-68028	38163	84014	29.54
3	1796.7	-9173	9100	18399	29.64
25	637.5	-50394	32923	66009	29.92
2	2380.3	-5585	7211	14347	30.17
30	362.3	-28173	20425	40516	30.27
61	638.0	-55146	26853	67533	30.98
19	728.9	-40854	30562	56627	32.66
191	113.7	-87815	61124	112657	32.86
4	4536.0	-10810	11794	21210	33.79
29	317.2	-28151	23692	42239	34.12
69	211.2	-65184	31736	78686	34.28
42	396.3	-7487	11211	18175	34.40
27	387.8	-37688	30520	53965	34.44
72	176.9	-48124	38787	67254	35.14
71	216.3	-51589	42071	71982	35.22
44	382.1	-8714	11175	19134	35.32
46	1635.0	-4788	9635	15084	35.45
8	1089.0	-21225	20074	34487	35.60
43	304.1	-8284	10342	18304	35.73
70	177.4	-68494	51336	91145	35.77
9	308.4	-20359	19678	33553	35.91
10	235.3	-21724	20686	35250	35.93
18	1128.6	-38558	33199	56224	36.19
11	717.4	-32310	29229	48840	36.76
22	886.1	-59171	49732	82631	37.00
17	440.9	-37941	33993	56203	37.22
13	1055.8	-35852	32724	53774	37.48
20	979.0	-52387	46085	75028	37.90
41	423.1	-7492	11442	18322	38.09
1057	1859.6	-3461	8057	13060	38.09
6	717.1	-19420	20682	33409	38.25
12	350.0	-35227	33206	53576	38.30
16	383.8	-38166	35618	57378	38.37
21	606.4	-55779	49583	79855	38.38
15	901.6	-38030	35583	57249	38.43
40	1261.2	-16278	6232	23922	38.65

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
7	474.1	-19987	21945	34642	39.31
45	345.0	-8407	10788	18659	39.70
1062	2280.9	-7329	12213	18690	40.80
5	1082.6	-15809	19639	29961	40.96
23	1770.9	-68169	65171	99349	40.99
14	806.9	-34633	36333	55120	41.24
1059	1413.2	-6301	12077	17832	42.63
1058	992.7	-5815	11890	17348	43.26
1087	1571.2	-26912	33387	47460	44.71
1063	1000.8	-9866	16654	23574	44.95
1074	2247.3	-14390	21504	30203	45.40
1073	524.0	-13747	21560	29795	46.35
1086	2006.0	-23145	31721	43635	46.63
1072	1050.9	-13556	21668	29742	46.76
1064	734.5	-9764	18237	24649	47.72
1085	847.9	-21622	32042	42843	48.41
1071	564.0	-12822	22266	29690	48.59
1060	931.6	-4242	12583	16752	48.69
1290	463.9	-36497	49671	65905	48.91
1077	912.3	-15505	26288	34487	49.66
1088	353.4	-23761	36892	47918	50.35
1289	2178.6	-35910	52456	67656	50.84
1164	566.9	-23931	37871	48782	50.93
1082	521.6	-17194	30119	38519	51.44
1081	1132.1	-16754	30386	38458	52.20
1076	791.1	-12969	26738	33263	53.50
1080	1701.1	-15275	30119	37354	53.74
1243	1899.6	-33895	56811	69893	54.37
1084	335.0	-16768	33051	40604	54.49
1061	2145.1	-4073	15428	18884	54.78
1288	274.5	-31082	54375	66280	55.12
1163	407.7	-21338	40482	49311	55.18
1242	581.4	-32333	56630	68846	55.34
1083	456.7	-16364	33624	40841	55.42
1244	533.7	-33356	59091	71454	55.79
1075	1252.6	-11050	26935	32323	56.44
1165	309.4	-19347	39501	47381	56.48
1092	546.4	-16230	34869	41798	56.54
1245	283.3	-32075	58944	70619	56.58
1078	597.7	-11609	28896	34272	57.47
1089	288.9	-18155	40056	47203	58.06

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1065	4990.0	-5762	20183	23783	58.06
1090	544.9	-17895	39810	46857	58.17
1079	566.7	-10594	28871	33715	58.91
1282	347.9	-13920	35677	41266	59.83
1091	224.6	-14977	37780	43616	60.02
1069	573.1	-6491	23278	26814	60.24
1287	254.2	-23888	54236	62325	60.48
1162	618.4	-17542	43378	49750	60.68
1161	536.2	-19843	47506	54476	60.70
1286	318.6	-25329	57366	65759	60.73
1285	383.0	-25071	57471	65726	60.98
1246	783.0	-29048	64886	74139	61.07
1066	1592.0	-5138	21711	24785	61.16
1160	890.6	-19166	47746	54358	61.44
1159	362.8	-22779	54574	62083	61.53
1070	637.2	-5961	23797	27012	61.76
1273	379.2	-35405	79367	89900	61.99
1067	3629.0	-5198	22676	25663	62.08
1093	731.9	-12581	36792	41593	62.20
1111	546.4	-7080	27040	30403	62.80
1119	422.5	-2522	18204	20461	62.84
1155	376.3	-20941	54557	61213	63.03
1166	312.5	-15258	43559	48834	63.12
1068	609.6	-4774	22940	25702	63.19
1106	363.2	-8899	31485	35190	63.47
1107	357.0	-8829	31427	35106	63.53
1240	493.9	-18333	50550	56461	63.55
1157	222.2	-19718	53502	59721	63.62
1156	293.0	-19768	54089	60270	63.83
1158	311.7	-19564	54006	60106	63.96
1105	418.8	-8591	31827	35361	64.17
1154	350.7	-19152	54212	60112	64.40
1153	587.2	-19150	54212	60111	64.40
1113	550.7	-5259	25248	27988	64.44
1112	3325.6	-5738	26840	29631	64.93
1130	2412.1	-6386	28836	31715	65.40
1241	605.3	-14526	47400	51984	65.76
1110	1414.5	-5354	27208	29807	65.90
1274	1695.2	-29305	83585	91057	66.63
1283	237.8	-15912	53686	58300	67.05
1101	663.3	-8979	37445	40641	67.13

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1247	2661.0	-18976	61974	67127	67.40
1114	1421.5	-3153	24003	25991	67.44
1248	289.3	-18923	62695	67774	67.68
1284	369.3	-15593	54748	59158	67.74
1108	880.1	-6255	31989	34558	67.77
1104	1167.1	-7513	35442	38230	67.98
1152	497.1	-15024	54397	58619	68.12
1109	4763.0	-5420	30607	32963	68.21
1103	738.5	-7419	35852	38575	68.34
1272	724.9	-25069	80615	86692	68.42
1298	70.6	-39233	117277	125994	68.56
1239	293.8	-13187	51374	55132	68.72
1249	580.7	-15702	58783	62949	69.04
1118	820.0	359	17171	18345	69.39
1094	825.5	-7402	37818	40403	69.39
1102	376.5	-6597	36191	38597	69.66
1271	889.7	-22963	81591	86856	69.95
1297	1100.9	-32896	108844	115863	69.95
1168	285.7	-11178	49765	52919	70.12
1269	811.6	-17530	67828	72066	70.25
1144	317.1	-8945	45697	48339	70.97
1148	1200.0	-10065	49201	52017	71.06
1127	2205.8	-1854	25414	26853	71.16
1275	1231.5	-23555	89093	94128	71.18
1292	309.5	-16564	68772	72638	71.22
1232	400.9	-9633	47687	50358	71.25
1296	166.8	-28536	104310	110139	71.28
1149	1787.8	-11943	55402	58493	71.29
1167	417.0	-11477	54043	57056	71.30
1128	1455.3	-2428	27504	29017	71.42
1129	737.8	-2560	28162	29682	71.58
1238	317.1	-11230	54455	57368	71.66
1095	1063.8	-6383	39948	42072	71.71
1291	327.2	-15103	68653	72068	72.29
1126	673.8	-1179	25052	26297	72.30
1295	196.2	-24778	100239	105101	72.50
1151	147.0	-11384	57816	60613	72.52
1115	4763.0	-257	22574	23656	72.60
1237	187.9	-9504	53481	55916	73.03
1306	257.4	-25562	107392	112167	73.22
1171	428.5	-10143	56577	59065	73.31

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1150	676.5	-9929	56275	58714	73.43
1143	263.4	-6258	44284	46174	73.55
1281	409.6	-5913	43236	45071	73.59
1173	813.1	-5590	42160	43948	73.60
1117	878.9	950	20058	20898	73.69
1305	210.2	-25587	112299	116881	73.90
1236	250.8	-8480	53855	55985	74.14
1299	157.4	-29341	127987	132997	74.22
1183	383.0	-9923	59607	61913	74.31
1145	1807.7	-7073	49614	51522	74.36
1294	130.0	-21090	99716	103548	74.36
1146	843.5	-7078	49969	51865	74.46
1172	257.1	-6906	49721	51580	74.57
1235	200.8	-7338	52159	54046	74.82
1307	63.0	-22230	107231	111096	74.84
1169	550.7	-7457	52843	54737	74.88
1096	960.5	-5430	45386	47010	74.90
1270	1026.4	-13057	75653	78221	75.28
1293	311.7	-18980	98652	101969	75.34
1170	539.7	-7485	55804	57608	75.62
1268	476.7	-10161	67442	69547	75.87
1304	648.4	-20718	109441	112852	75.88
1182	252.5	-8240	60439	62287	76.01
1181	322.7	-7775	60772	62499	76.50
1308	301.3	-16785	101819	104519	76.95
1147	453.3	-4462	49463	50733	77.15
1267	1755.8	-8797	68884	70631	77.23
1099	1003.7	-2136	40179	41165	77.44
1180	529.4	-6714	61075	62556	77.51
1309	788.1	-15221	102508	104851	77.87
1310	724.3	-14835	101052	103346	77.91
1098	899.7	-2345	42780	43750	77.91
1265	1478.7	-6780	64143	65568	78.03
1266	627.4	-7196	66294	67759	78.06
1179	428.9	-4646	56220	57377	78.47
1234	211.0	-4443	55440	56572	78.52
1176	2730.8	-4119	54089	55184	78.57
1264	378.8	-5662	62479	63713	78.70
1178	537.8	-4199	55435	56520	78.76
1177	756.8	-3610	54629	55616	79.19
1233	344.5	-3233	52982	53927	79.26

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1184	1364.4	-4691	60925	62003	79.30
1097	1596.9	-2338	48579	49435	79.33
1175	469.1	-1575	45145	45919	79.47
1185	558.4	-4478	61345	62377	79.57
1186	907.1	-4477	61346	62377	79.57
1303	1621.8	-14641	120482	122379	79.90
1142	6124.0	-1515	47092	47824	79.97
1125	515.6	2355	25627	26013	80.12
1100	402.4	15	41294	41850	80.65
1302	892.3	-14961	134316	136070	80.79
1259	2788.2	-1739	54580	55246	81.09
1262	916.3	-2868	62142	62892	81.14
1120	513.0	4497	15802	15972	81.64
1124	1064.4	3007	26446	26720	81.80
1261	497.0	-1461	59065	59642	82.02
1116	1154.5	3898	21108	21309	82.12
1134	709.3	2911	28567	28833	82.21
1174	595.6	1357	40783	41147	82.37
1137	998.4	1230	43911	44265	82.75
1300	602.5	-14758	175159	176483	82.98
1133	1894.3	3267	29331	29545	83.10
1132	634.0	3225	29857	30073	83.14
1251	1801.7	697	51791	52151	83.26
1260	588.4	520	55977	56330	83.58
1258	612.9	582	56142	56488	83.66
1131	1452.6	3241	33716	33906	83.94
1301	312.0	-10730	175450	176326	84.29
1263	485.6	1108	61538	61803	84.70
1257	2322.0	1697	56195	56428	84.79
1141	510.2	2570	49961	50141	85.14
1256	402.3	2232	54719	54910	85.21
1278	220.9	-5376	158778	159245	85.61
1135	416.6	4950	25379	25448	85.79
1254	837.0	2655	57692	57842	85.87
1255	3233.7	3073	53517	53648	86.00
1280	364.3	4921	30821	30879	86.48
1253	623.9	3813	57413	57491	87.00
1140	933.5	4579	50859	50908	87.48
1250	350.7	5264	36402	36435	87.56
1139	482.7	5072	46182	46215	87.84
1277	1334.9	1965	143415	143497	88.06

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1121	1080.3	6357	14338	14345	88.16
1279	1159.7	4218	83133	83174	88.21
1136	369.5	5573	42788	42806	88.33
1138	1588.2	5662	46669	46684	88.58
1252	678.1	5595	54342	54356	88.71
1276	607.8	4362	111450	111477	88.74
1123	1291.7	6508	22397	22400	89.21
1122	1574.1	6672	16631	16632	89.50
1358	823.9	7438	40119	40124	90.89
1354	511.8	8184	46594	46614	91.68
1326	1761.3	8268	48778	48800	91.70
1325	719.7	8811	48611	48652	92.35
1353	382.8	9154	50251	50305	92.66
1352	467.8	9408	51244	51309	92.89
1412	193.4	10221	48000	48120	94.06
1359	272.0	9161	32667	32751	94.10
1357	325.0	9906	40801	40917	94.33
1424	3298.1	14480	85109	85453	95.14
1356	183.1	11077	41052	41273	95.92
1422	1081.7	15925	79690	80208	96.52
1421	2254.4	15932	78359	78887	96.63
1417	712.9	14685	67288	67746	96.67
1355	320.4	11587	40460	40740	96.72
1420	372.3	15635	72013	72550	96.98
1336	3856.0	17119	81915	82560	97.17
1416	666.0	14846	61806	62325	97.40
1423	702.4	16962	77859	78517	97.42
1419	429.1	16016	70275	70874	97.46
1360	423.8	11148	32705	32990	97.54
1315	289.6	11042	30661	30951	97.84
1414	640.1	15017	59042	59608	97.91
1337	207.5	18718	82768	83619	98.18
1415	341.8	15562	58973	59617	98.43
1418	401.6	17545	69681	70502	98.75
1324	1314.6	14482	46592	47218	99.34
1314	838.6	11175	25719	26085	99.61
1338	244.3	21096	83978	85183	99.65
1351	534.6	15568	50374	51129	99.85
1369	922.7	29504	127846	129843	100.06
1323	755.2	15111	46589	47321	100.09
1413	491.8	17481	55863	56872	100.81

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1346	286.4	19782	66494	67746	101.03
1322	521.5	15967	46795	47681	101.06
1348	188.1	19452	63917	65154	101.18
1320	1209.1	15540	42517	43403	101.59
1347	380.7	20077	64437	65787	101.63
1335	1210.0	22848	77776	79411	101.65
1328	477.8	18089	53341	54519	101.93
1350	473.7	18496	55136	56359	101.96
1370	146.5	34484	130286	133191	101.99
1339	752.3	25194	85046	87009	102.19
1327	907.0	18048	51858	53060	102.22
1371	73.8	35625	130292	133439	102.47
1361	211.3	12702	26551	27195	102.50
1321	348.9	16579	43148	44238	102.75
1316	430.5	14431	32344	33228	103.25
1331	513.0	20948	59920	61563	103.27
1349	281.2	20478	55580	57234	103.81
1372	59.0	39174	129410	133393	104.04
1328	524.4	19151	49328	50847	104.04
1330	259.5	22166	60996	62897	104.12
1377	99.7	32414	98529	101799	104.56
1334	156.0	26908	75961	78573	104.81
1333	591.7	26864	75748	78356	104.82
1373	54.4	40324	126527	130889	104.83
1368	139.8	17119	37673	39056	105.29
1367	201.5	17542	37611	39110	105.91
1375	23.9	36592	103790	107976	106.01
1374	23.0	42264	117057	122306	106.85
1317	2069.9	18850	37471	39355	107.80
1376	107.1	41179	101835	107476	108.65
1332	221.1	30069	67492	71385	109.01
1340	599.4	33789	78059	82587	109.06
1313	547.6	15946	26370	27905	109.09
1345	563.3	22960	44864	47680	109.79
1311	563.9	13655	18722	19931	110.06
1319	475.6	20913	38447	40950	110.13
1318	1271.5	21110	36962	39629	111.14
1344	229.6	25478	43317	47165	113.31
1312	1969.9	16619	21461	23593	114.55
1362	738.2	18272	24076	26662	115.44
1366	387.3	24071	35042	39059	116.21

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1343	351.0	30882	46767	52595	117.23
1378	600.3	67163	111160	126483	118.50
1342	500.9	34123	49154	56228	119.05
1379	359.7	66662	106370	122049	119.36
1411	1182.1	19958	23260	26715	119.46
1341	138.9	38628	53418	62172	120.77
1363	164.9	19441	18635	22508	124.11
1365	2045.2	30848	27846	36781	130.79
1364	2930.3	28244	23052	31471	132.91
1410	757.4	24076	16379	23793	136.50
428	514.4	81399	59736	95555	141.31
402	448.6	23335	12887	20950	142.04
427	188.3	71136	49902	81406	142.19
400	2223.9	20956	10599	17669	143.14
401	253.4	22882	11988	20045	143.27
429	801.4	85578	56106	96700	144.54
426	442.0	53627	28375	54738	148.78
430	1740.2	89261	42496	92751	152.73
433	183.5	81101	35371	82274	154.54
431	4536.0	82045	33707	82434	155.86
403	3010.0	34222	12045	29934	156.27
406	373.2	44290	16380	40896	156.39
432	911.9	83963	30677	83021	158.31
407	359.3	49553	16476	45801	158.92
404	333.9	33351	9796	28283	159.74
410	1429.1	64412	19078	60671	161.67
411	2438.1	69658	19613	65830	162.67
425	934.5	55330	14158	50536	163.73
434	190.6	89481	21833	85498	165.21
412	239.3	73097	16794	68374	165.78
408	3855.0	56209	12061	50842	166.28
419	481.9	108078	24077	104083	166.62
405	734.9	38815	7314	32822	167.12
418	2071.2	110431	23495	106244	167.22
421	413.3	93513	19303	88818	167.45
437	285.0	69505	13442	64112	167.90
420	26082.0	99093	19777	94371	167.90
435	143.2	86578	16475	81444	168.33
413	1066.5	80275	14678	74909	168.70
436	319.8	90165	16053	84879	169.10
424	250.0	52919	7468	46702	170.80

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
417	817.9	105026	14027	99204	171.87
1408	771.3	89418	9347	83127	173.54
414	438.8	89422	7026	82903	175.14
409	1023.1	58712	4330	52074	175.23
423	415.7	51599	1544	44807	178.02
1402	2806.6	98412	-176	91594	180.11
1407	1354.7	106763	-2618	99979	181.50
1401	355.8	76583	-3144	69836	182.58
1404	1432.4	149622	-11011	143228	184.41
1396	889.1	85667	-9940	79473	187.19
1397	276.7	85027	-12713	79235	189.23
1405	445.3	120001	-22079	115316	191.04
1393	1519.5	95266	-19529	90579	192.45
1394	880.9	100167	-29752	97975	197.68
1387	463.6	56260	-17913	52587	199.92
1388	904.9	62235	-21309	59373	201.03
1386	1100.9	56319	-19228	53104	201.23
1391	1469.3	84130	-33818	84385	203.63
1389	521.1	74594	-30404	74284	204.16
1392	544.0	88491	-36935	89637	204.33
1400	1623.7	70366	-30499	70488	205.64
1383	2235.3	41155	-21999	40780	212.65
1381	1100.3	33708	-17991	32354	213.78
1382	392.3	32182	-17730	30947	214.95
1384	996.3	45449	-30429	49176	218.23
600	374.8	18923	-10603	16092	221.22
604	4082.0	30244	-25763	34821	227.72
1056	329.0	62937	-66739	87197	229.94
603	2245.9	27325	-24496	31946	230.06
601	468.4	21307	-17610	22804	230.55
605	746.8	28895	-27503	35268	231.25
640	981.0	47948	-57037	70320	234.20
606	518.5	25912	-33467	38530	240.29
637	481.7	44149	-67462	77102	241.04
635	426.7	44460	-69279	78845	241.48
636	413.0	43695	-69027	78260	241.89
1055	7031.0	37409	-58724	66214	242.48
609	1328.6	26632	-40470	45060	243.91
610	565.8	27363	-43332	47956	244.63
634	948.0	39515	-79105	85597	247.54
1054	335.9	29400	-54696	59174	247.57

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
608	621.0	22922	-39939	43063	248.04
602	566.1	15766	-25645	27161	250.77
607	403.4	19908	-42243	44224	252.78
639	682.7	36702	-101212	105531	253.55
1053	729.2	25700	-67494	70086	254.37
613	752.2	20451	-56762	58376	256.49
611	625.6	18670	-52160	53489	257.20
1044	393.1	39597	-145825	149464	257.33
633	650.9	26547	-94254	96297	258.18
612	1048.4	17622	-52135	53243	258.29
1048	257.8	29014	-107297	109569	258.31
614	1083.6	20238	-66203	67549	258.54
632	758.0	23617	-86789	88400	259.05
617	1207.3	20554	-71362	72672	259.10
615	2493.3	19551	-68393	69568	259.45
616	1694.9	19867	-70173	71376	259.47
1049	266.6	23959	-102666	104087	260.52
625	1008.9	19188	-79039	80001	261.10
1052	296.8	18242	-76266	77117	261.48
1045	807.3	24745	-126161	127428	261.91
638	1009.1	16374	-67570	68242	261.95
1043	541.9	27046	-154569	155887	262.54
626	1219.8	16938	-81041	81670	262.88
1042	194.7	27808	-171359	172640	263.02
1050	323.2	17464	-96819	97402	263.72
629	571.2	15903	-86121	86599	263.98
628	923.7	15903	-86120	86598	263.98
627	1127.4	15479	-84445	84888	264.14
630	806.2	15864	-89756	90211	264.24
624	792.5	13969	-79799	80119	264.88
619	2158.7	12983	-74418	74673	265.26
620	768.3	12955	-75193	75443	265.33
622	1384.9	12813	-73591	73835	265.34
623	1678.9	12699	-77911	78133	265.68
1046	472.3	15362	-114738	115056	265.74
1051	305.2	12792	-80753	80974	265.77
631	1547.8	12622	-92538	92720	266.41
621	3298.6	10087	-73512	73584	267.45
1041	173.7	13585	-157077	157223	267.53
1039	836.6	11405	-116206	116296	267.74
1036	1177.7	10506	-99182	99250	267.87

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1037	1543.1	9630	-90828	90871	268.23
1038	494.8	10087	-107070	107120	268.25
1040	522.8	8340	-131759	131768	269.34
1034	581.9	7306	-81930	81932	269.66
1047	5216.0	7072	-114601	114601	269.87
1035	2787.1	6889	-90033	90033	269.95
1015	2817.6	4056	-148623	148649	271.06
1016	1937.4	3346	-132814	132859	271.50
1031	793.3	3576	-93320	93376	271.99
1032	643.6	3574	-93318	93375	271.99
750	1886.4	5033	-51298	51329	271.99
618	322.6	3396	-80319	80392	272.44
1026	1448.0	813	-114783	114940	272.99
717	476.3	4871	-35188	35242	273.17
748	812.4	4496	-41929	41993	273.17
706	901.0	5377	-25157	25198	273.28
751	619.7	3577	-55294	55389	273.35
749	294.1	3983	-48169	48252	273.37
1014	314.3	-2023	-142247	142522	273.56
1012	653.2	-3144	-147744	148079	273.86
1013	839.9	-3636	-144054	144433	274.15
1030	1372.5	-1482	-100323	100666	274.73
746	566.2	3210	-39201	39367	275.26
745	1596.7	3054	-37489	37678	275.73
1027	212.1	-4139	-107878	108433	275.80
709	160.9	3726	-29694	29855	275.94
747	390.1	2459	-40093	40330	276.20
1029	759.5	-5668	-107373	108097	276.63
707	448.5	3773	-25773	25952	276.74
1020	583.9	-7044	-116377	117200	276.79
1021	264.3	-7281	-116121	116974	276.92
744	385.1	2159	-36197	36496	277.33
1033	3573.2	-3280	-76997	77656	277.47
718	519.4	2110	-35866	36173	277.48
743	1588.6	1968	-36843	37161	277.50
741	1045.0	1131	-43066	43440	277.52
1011	2373.0	-14508	-160105	161519	277.59
1019	307.3	-8927	-117184	118237	277.65
710	766.9	2540	-29774	30079	278.18
1017	435.2	-14624	-131463	133200	279.26
752	635.4	-2379	-55685	56439	279.38

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1010	766.8	-13649	-121105	122823	279.59
740	615.4	-1383	-46285	47005	280.05
773	2214.2	-14193	-114364	116279	280.41
1018	213.8	-16406	-122095	124284	280.77
1024	687.7	-15764	-107596	109941	281.85
1022	441.0	-16709	-111296	113756	281.94
708	622.5	1041	-26648	27267	282.23
769	368.5	-17423	-110625	113250	282.36
1023	311.6	-17533	-108488	111187	282.65
1231	235.3	-28841	-158744	162699	282.66
1230	617.3	-29409	-157755	161861	282.93
1025	1028.4	-16862	-102076	104787	283.06
1229	702.5	-29909	-155778	160049	283.27
716	398.0	-1189	-32715	33680	283.75
738	467.3	-3933	-42547	43885	284.18
711	422.1	-505	-28742	29661	284.29
1228	136.2	-30855	-147497	152232	284.33
1002	429.7	-9390	-63134	65181	284.40
739	1546.9	-4694	-44106	45583	284.63
760	1713.0	-11911	-71061	73488	284.77
1004	1429.8	-11171	-67346	69707	284.95
761	1835.3	-11827	-69637	72090	284.99
772	944.6	-27036	-124010	128548	285.27
1227	131.0	-30709	-133742	138907	285.67
770	419.9	-28971	-126620	131580	285.78
1226	161.6	-30687	-131289	136541	285.94
704	274.7	993	-20314	21132	286.00
1224	431.4	-28604	-123256	128245	286.03
1225	95.1	-30869	-130888	136206	286.06
742	349.3	-2768	-33097	34457	286.15
1006	1056.0	-17312	-82951	86390	286.22
756	1483.8	-15289	-72740	76025	286.90
1223	137.0	-27469	-111981	117113	287.02
771	565.1	-31709	-124457	130283	287.20
757	808.7	-15518	-71593	74997	287.33
701	614.5	-3334	-32454	34005	287.37
768	402.3	-26235	-105491	110548	287.40
1222	283.8	-28401	-111150	116596	287.58
700	1240.3	-3351	-31842	33426	287.71
737	2406.8	-6449	-41188	43273	287.85
754	2456.3	-21094	-86554	90943	287.87

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1009	311.3	-23746	-93506	98374	288.10
758	1248.1	-16491	-70851	74587	288.21
753	318.6	-25395	-90876	96417	289.52
1003	371.2	-15827	-63652	67560	289.58
734	900.9	-9330	-44859	47677	289.80
759	1313.2	-17764	-67343	71689	290.05
733	3198.0	-10334	-46635	49689	290.19
755	4082.0	-23610	-82466	87901	290.25
703	368.9	-4116	-29386	31354	290.41
702	262.1	-4299	-29306	31344	290.77
1008	623.9	-26993	-88878	95092	290.83
736	856.9	-9016	-41606	44517	290.84
732	425.9	-10162	-44079	47237	291.07
1221	284.7	-45463	-129477	139634	291.99
1007	235.5	-25795	-80258	86631	292.11
715	1093.5	-7249	-32559	35468	293.37
721	2104.2	-10390	-39280	42884	293.66
765	458.4	-20032	-61023	66669	293.75
720	655.0	-9994	-37404	41009	294.20
762	818.3	-24032	-68054	74720	294.39
731	1168.4	-12612	-42487	46719	294.58
1001	359.1	-18120	-51562	57277	295.81
735	1220.4	-12868	-40678	45191	295.82
763	1171.7	-27437	-68934	76976	296.42
713	596.5	-9472	-32149	36040	296.87
1005	4763.0	-26497	-65354	73355	297.01
1220	124.8	-51675	-113333	127538	297.30
729	2420.6	-14972	-41235	46638	297.85
712	394.0	-8569	-28223	32144	298.60
722	9525.0	-13789	-35685	41208	300.00
705	931.0	-6292	-22690	26206	300.02
714	1203.0	-11557	-31090	36115	300.58
764	2569.4	-26537	-55956	65143	300.80
728	4763.0	-18364	-42227	49165	300.81
727	776.9	-20663	-40051	48573	304.46
724	634.9	-19661	-38177	46451	304.74
767	1502.6	-5021	-15891	19816	306.69
726	1077.7	-23197	-39671	49746	307.11
766	381.8	-21637	-35726	45673	308.54
725	741.5	-21902	-35354	45550	309.09
251	310.8	-22202	-33189	44087	311.17

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
252	232.8	-18582	-28719	38340	311.49
249	363.1	-22070	-32224	43277	311.87
250	242.4	-21461	-31119	42049	312.26
263	685.5	-40441	-51436	69850	312.58
103	693.3	-8230	-13653	20318	313.37
134	324.9	-20267	-25667	37315	313.41
135	302.5	-18422	-26678	36726	313.52
261	1280.1	-38887	-48122	66368	313.52
262	256.9	-39161	-48153	66580	313.68
104	379.4	-6870	-14488	19932	314.54
143	202.2	-22806	-27789	40618	314.85
145	241.8	-27032	-28514	44259	316.00
132	1538.7	-21380	-23516	36717	316.19
136	630.8	-19339	-27548	37988	316.35
270	1696.5	-56629	-51361	81630	316.50
133	2135.5	-19803	-25535	36888	316.54
264	2021.5	-43062	-47013	68544	316.69
265	452.6	-41215	-41248	63313	316.69
253	210.1	-24310	-29262	42723	316.77
142	979.3	-25896	-21935	39387	316.83
137	520.9	-20958	-26499	38389	316.91
128	1970.8	-18350	-21848	33328	317.54
102	207.4	-6349	-11627	17566	317.78
162	342.0	-15292	-16009	27297	318.04
158	906.0	-13626	-16041	25986	318.22
260	266.1	-39619	-41271	62126	318.37
129	391.0	-18220	-22909	33937	318.47
101	1039.0	-5316	-6442	13738	318.56
127	933.4	-17999	-19232	31397	319.04
138	204.8	-20689	-25735	37669	319.09
266	332.6	-40018	-37575	60046	319.35
304	139.6	-30784	-32028	49394	319.58
254	201.1	-25023	-27000	41748	319.70
130	385.8	-19141	-22988	34675	319.82
144	316.5	-23850	-30832	43488	319.89
255	192.0	-23876	-25624	39984	320.14
259	118.2	-32917	-33150	51747	320.16
131	288.3	-20664	-23212	35973	320.17
1219	1541.6	-85585	-76859	120190	320.25
273	133.4	-59332	-46879	81077	320.29
139	463.1	-22147	-25097	38325	320.58

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
305	137.0	-31627	-31379	49625	320.78
272	279.1	-65879	-60378	94500	320.80
271	398.2	-66913	-60134	95144	321.01
267	278.1	-37830	-35819	57240	321.26
268	133.2	-46720	-37294	65247	321.26
155	808.8	-13442	-3470	20555	321.43
160	1195.4	-14665	-16465	27067	321.62
256	601.3	-24732	-24915	40202	321.70
157	721.4	-13509	-15734	25704	321.88
163	3000.4	-15381	-19960	29852	322.02
140	308.1	-22412	-24026	37837	322.11
306	173.7	-34846	-32355	52751	322.17
126	402.3	-20118	-17394	32064	322.23
165	361.4	-16855	-18217	29871	322.23
156	1505.6	-12755	-15606	25033	322.26
164	394.1	-16693	-18359	29830	322.42
159	2139.0	-13719	-18349	27540	322.53
258	288.3	-32325	-29038	48738	323.43
248	172.1	-25606	-23834	40242	323.68
146	550.5	-28494	-34101	49090	323.87
257	147.9	-31495	-27834	47356	324.00
247	178.7	-28061	-25266	43069	324.08
161	1253.8	-14896	-17197	27700	324.09
274	776.9	-51651	-38770	70155	324.68
269	126.6	-49878	-53803	78162	325.14
277	79.0	-43788	-33248	60551	325.42
74	212.7	-36950	18741	47612	325.61
244	277.5	-30877	-25358	45431	326.07
141	764.8	-23889	-23899	38911	326.16
275	204.9	-56692	-33029	71585	326.45
243	562.5	-33026	-25990	47571	326.88
125	461.4	-19818	-9279	28206	327.15
150	464.4	-23186	-18201	35093	327.20
167	242.4	-15590	-17268	28289	327.61
245	297.8	-31268	-24129	45086	327.64
279	95.5	-40117	-29296	55328	328.03
278	35.4	-44627	-32110	60643	328.03
280	110.6	-41594	-29854	56877	328.34
147	215.4	-26663	-24443	41454	328.53
148	326.8	-24718	-19303	36975	328.73
149	253.4	-24349	-18929	36465	328.76

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
246	119.4	-32002	-23431	45344	328.89
191	181.6	-31074	-22743	44193	329.03
114	275.7	-25776	-6036	33148	329.14
282	198.7	-45267	-30698	60458	329.49
281	151.3	-43343	-28942	57912	330.02
115	710.8	-18581	-15177	29588	330.13
297	219.0	-60572	-38430	77578	330.31
287	154.4	-45553	-28661	59700	331.31
117	1578.1	-17814	-12557	27648	331.37
283	540.6	-49246	-30288	63722	331.62
284	162.5	-47140	-29013	61264	331.73
288	113.3	-46626	-28736	60680	331.73
100	1093.4	-2558	-6417	11362	332.03
298	177.0	-55685	-33140	70745	332.07
286	105.3	-45654	-27599	59288	332.26
120	1466.9	-19512	-11859	28877	332.38
276	356.7	-42931	-34291	60422	332.52
285	190.2	-46698	-27465	60152	332.83
1218	62.7	-106483	-58073	127317	332.86
116	922.8	-16967	-13660	27429	332.99
1217	159.9	-141016	-75073	165803	333.08
168	252.3	-14226	-13350	24921	333.28
299	136.4	-52423	-29541	66198	333.50
118	185.7	-17968	-13532	28239	333.53
241	380.6	-35317	-20726	46957	333.81
295	131.5	-56570	-31148	70628	333.83
121	1620.6	-20081	-14077	30360	334.00
289	129.5	-47142	-26300	60028	334.02
152	321.8	-22463	-14129	32512	334.13
151	286.1	-20782	-17790	32836	334.24
242	172.6	-34679	-19910	46026	334.37
169	342.8	-15359	-11163	24829	334.43
1208	196.5	-200207	-98429	229233	334.57
1207	439.9	-200281	-98006	229118	334.68
1206	218.9	-211299	-102602	241044	334.81
294	258.6	-54841	-28605	67971	335.11
105	203.8	-7084	-14128	19821	335.13
290	843.1	-46974	-24698	59191	335.34
291	339.2	-47823	-25073	60119	335.35
1205	261.5	-244157	-113661	275512	335.64
296	688.3	-66526	-33078	80458	335.72

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
119	420.1	-20183	-13442	30162	335.75
153	181.4	-23125	-14520	33278	335.90
192	335.4	-32155	-17105	42562	336.30
172	110.2	-19546	-11024	28576	336.54
1215	567.1	-114923	-52118	132428	336.82
292	220.4	-52537	-25362	64547	336.86
236	137.6	-37060	-18546	47637	337.09
171	433.8	-11568	-6988	19669	337.31
235	433.7	-38425	-18883	49026	337.35
310	253.0	-45445	-21673	56579	337.48
1204	251.7	-228723	-97333	254859	337.55
293	233.4	-51814	-23786	63273	337.92
307	225.1	-46685	-21614	57704	338.00
188	174.2	-26208	-13043	35509	338.45
234	236.5	-40863	-18817	51259	338.46
300	239.3	-62503	-27171	74456	338.60
231	727.7	-39062	-17892	49246	338.70
175	203.6	-21063	-9569	29478	338.70
230	91.7	-39221	-17878	49389	338.78
1216	52.2	-132349	-53472	149086	338.98
190	293.1	-27882	-13219	37132	339.15
170	515.5	-14312	-10108	23423	339.19
303	163.1	-56993	-23895	68138	339.47
189	2387.5	-29598	-13344	38784	339.88
1212	720.9	-91657	-35919	104821	339.96
229	258.2	-43812	-18347	53852	340.08
308	106.7	-46408	-19229	56593	340.14
122	238.6	-20066	-13113	29912	340.17
233	125.6	-40618	-16878	50349	340.41
237	229.8	-37538	-15713	47057	340.49
173	231.2	-18584	-11023	27690	340.50
309	223.2	-46650	-18627	56619	340.79
124	318.2	-19490	-8108	27529	340.79
301	315.7	-61418	-23738	72247	340.82
312	951.6	-69145	-26254	80371	340.93
311	593.1	-53120	-20690	63408	340.96
174	169.1	-20465	-9662	28943	341.06
302	813.2	-58784	-22459	69340	341.10
195	159.7	-31630	-13063	40607	341.23
228	1993.7	-45392	-17307	55003	341.66
193	327.2	-29788	-12049	38538	341.78

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
223	571.5	-46678	-17296	56222	342.08
230	581.5	-43924	-16277	53288	342.21
176	197.5	-21672	-11107	30579	342.73
194	150.2	-30732	-11577	39294	342.86
123	385.8	-19045	-9327	27493	342.87
224	438.0	-45159	-16000	54384	342.89
1209	54.7	-166444	-52491	181038	343.15
1213	213.6	-105322	-33911	117156	343.17
222	138.2	-47027	-16065	56190	343.39
314	469.9	-70968	-23189	81169	343.40
221	718.3	-48678	-16391	57866	343.55
177	220.7	-24898	-9860	33214	343.68
319	668.6	-55592	-18254	65025	343.70
320	170.5	-52607	-17069	61827	343.97
1203	320.8	-236500	-69584	253073	344.04
186	122.4	-28918	-10126	37143	344.18
198	304.6	-35222	-11853	43679	344.25
106	1692.8	-13625	-9475	22532	344.38
238	333.2	-39302	-12883	47885	344.39
1214	174.7	-112388	-32978	123684	344.54
220	156.5	-49686	-15324	58545	344.83
196	422.0	-33960	-11055	42250	344.83
197	159.5	-34061	-11070	42352	344.85
187	217.2	-29752	-9150	37698	345.95
185	162.5	-28291	-8172	36047	346.90
318	517.3	-52980	-13903	61393	346.91
1210	688.5	-126634	-30442	136880	347.15
1211	918.2	-111562	-25237	121040	347.97
225	195.5	-46418	-11213	54404	348.11
227	232.5	-47873	-11230	55832	348.40
219	220.1	-53564	-12376	61637	348.42
317	1204.1	-56777	-12986	64907	348.46
112	139.0	-22701	-5552	30036	348.47
107	404.4	-15813	-6329	23500	348.71
226	104.2	-47199	-10714	55069	348.78
111	210.9	-22644	-2819	29597	349.35
113	217.2	-23995	-6284	31447	349.51
206	493.2	-37766	-8066	45307	349.75
199	130.0	-34665	-7370	42133	349.93
154	198.2	-23836	-13715	33582	350.28
217	504.9	-45879	-8744	53417	350.58

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY AZIMUTH

I.D. MARK	WEIGHT (gm)	COORDINATES		FROM GZ:	
		X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
184	89.5	-29241	-5592	36490	351.19
216	342.5	-52620	-8670	60067	351.70
212	98.4	-48436	-7502	55761	352.27
218	407.9	-57638	-7984	64949	352.94
108	214.5	-17992	-4955	25300	353.09
203	701.5	-36740	-5268	43875	353.10
316	574.4	-60432	-8023	67727	353.20
209	205.6	-42464	-5649	49605	353.46
211	459.8	-47754	-5721	54871	354.02
213	552.1	-49537	-5799	56653	354.12
204	400.8	-38175	-4518	45219	354.27
239	1109.0	-50564	-5695	57664	354.33
315	415.9	-72516	-7733	79710	354.43
240	758.2	-50701	-5566	57788	354.47
208	177.9	-42281	-4738	49327	354.49
110	178.5	-20276	-1030	27114	354.53
207	184.8	-41390	-4580	48425	354.57
205	822.1	-39042	-4299	46061	354.64
202	396.0	-36712	-4070	43720	354.66
183	1502.2	-30266	-3240	37225	355.01
201	203.3	-33943	-3458	40907	355.15
200	231.2	-33922	-3410	40882	355.22
181	427.9	-28456	-2771	35382	355.51
210	496.7	-46776	-3488	53707	356.28
178	1610.9	-26365	-9714	34576	356.46
215	152.8	-56921	-3102	63815	357.21
179	385.9	-25996	-2033	32877	357.34
109	253.9	-19186	-3153	26194	357.82
182	505.7	-31021	-1111	37855	358.32
62	273.3	-56061	37751	73342	358.50
214	521.1	-56052	-1414	62886	358.71
36	495.7	-21302	-18	28120	359.96

3.8 SORTED BY COLOR

The weight, color, and location information of each piece of PAS-4 debris collected in the circular collection area was first combined into a single database. The database was then sorted by color of concrete.

Color Code:

R = Red

Y = Yellow

B = Black

G = Green

N = Natural (Gray)

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
12	350.0	B		-35227	33206	53576	38.30
14	806.9	B		-34633	36333	55120	41.24
15	901.6	B	G	-38030	35583	57249	38.43
16	383.3	B	G	-38166	35618	57378	38.37
20	979.0	B	G	-52387	46085	75028	37.90
21	606.4	B	G	-55779	49583	79855	38.38
22	886.1	B	G	-59171	49732	82631	37.00
23	1770.9	B		-68169	65171	99349	40.99
25	637.5	B		-50394	32923	66009	29.92
26	564.6	B		-52870	30169	66816	26.84
31	211.3	B	Y	-34068	13694	43118	18.52
51	221.6	B	Y	-20971	8485	29055	24.24
52	208.6	B	Y	-32809	17842	43459	13.46
53	311.6	B	Y	-38486	10844	46583	27.17
54	247.6	B	G	-55338	31909	69868	27.02
62	273.3	B		-56061	37751	73342	358.50
67	195.0	B	G	-41549	20917	52696	20.38
70	177.4	B		-68494	51336	91145	35.77
72	176.9	B		-48124	38787	67254	35.14
73	259.8	B	G	-39184	32378	56254	23.18
74	212.7	B	G	-36950	18741	47612	325.61
108	214.5	B		-17992	-4955	25300	353.09
112	139.0	B		-22701	-5552	30036	348.47
114	275.7	B		-25776	-6036	33148	329.14
117	1578.1	B		-17814	-12557	27648	331.37
121	1620.6	B		-20081	-14077	30360	334.00
122	238.6	B		-20066	-13113	29912	340.17
126	402.3	B		-20118	-17394	32064	322.23

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
136	630.8	B		-19339	-27548	37988	316.35
140	308.1	B		-22412	-24026	37837	322.11
143	202.2	B	G	-22806	-27789	40618	314.85
144	316.5	B		-23850	-30832	43488	319.89
147	215.4	B		-26663	-24443	41454	328.53
153	181.4	B		-23125	-14520	33278	335.90
154	198.2	B		-23836	-13715	33582	350.28
156	1505.6	B	B	-12755	-15606	25033	322.26
158	906.0	B		-13626	-16041	25986	318.22
159	2139.0	B	G	-13719	-18349	27540	322.53
160	1195.4	B	G	-14665	-16465	27067	321.62
161	1253.8	B		-14896	-17197	27700	324.09
162	342.0	B		-15292	-16009	27297	318.04
164	394.1	B		-16693	-18359	29830	322.42
165	361.4	B		-16855	-18217	29871	322.23
168	252.3	B		-14226	-13350	24921	333.28
169	342.8	B		-15359	-11163	24829	334.43
176	197.5	B		-21672	-11107	30579	342.73
177	220.7	B	Y	-24898	-9860	33214	343.68
178	1610.9	B		-26365	-9714	34576	356.46
185	162.5	B		-28291	-8172	36047	346.90
186	122.4	B		-28918	-10126	37143	344.18
189	2387.5	B		-29598	-13344	38784	339.88
190	293.1	B		-27882	-13219	37132	339.15
191	181.6	B		-31074	-22743	44193	329.03
198	304.6	B	G	-35222	-11853	43679	344.25
200	231.2	B		-33922	-3410	40882	355.22
204	400.8	B		-38175	-4518	45219	354.27

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
210	496.7	B	Y	-46776	-3488	53707	356.28
214	521.1	B	G	-56052	-1414	62886	358.71
216	342.5	B	G	-52620	-8670	60067	351.70
219	220.1	B		-53564	-12376	61637	348.42
220	156.5	B		-49686	-15324	58545	344.83
224	438.0	B		-45159	-16000	54384	342.89
225	195.5	B		-46418	-11213	54404	348.11
227	232.5	B		-47873	-11230	55832	348.40
244	277.5	B		-30877	-25358	45431	326.07
247	178.7	B		-28061	-25266	43069	324.08
248	172.1	B		-25606	-23834	40242	323.68
249	363.1	B		-22070	-32224	43277	311.87
250	242.4	B		-21461	-31119	42049	312.26
252	232.8	B		-18582	-28719	38340	311.49
257	147.9	B		-31495	-27834	47356	324.00
258	288.3	B		-32325	-29038	48738	323.43
259	118.2	B		-32917	-33150	51747	320.16
260	266.1	B		-39619	-41271	62126	318.37
262	256.9	B		-39161	-48153	66580	313.68
264	2021.5	B		-43062	-47013	68544	316.69
265	452.6	B		-41215	-41248	63313	316.69
266	332.6	B		-40018	-37575	60046	319.35
267	278.1	B		-37830	-35819	57240	321.26
268	133.2	B		-46720	-37294	65247	321.26
271	398.2	B		-66913	-60134	95144	321.01
273	133.4	B		-59332	-46879	81077	320.29
275	204.9	B		-56692	-33029	71585	326.45
278	35.4	B		-44627	-32110	60643	328.03

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
280	110.6	B		-41594	-29854	56877	328.34
282	198.7	B		-45267	-30698	60458	329.49
284	162.5	B		-47140	-29013	61264	331.73
286	105.3	B		-45654	-27599	59288	332.26
290	843.1	B		-46974	-24698	59191	335.34
292	220.4	B		-52537	-25362	64547	336.86
294	258.6	B		-54841	-28605	67971	335.11
298	177.0	B		-55685	-33140	70745	332.07
299	136.4	B		-52423	-29541	66198	333.50
300	239.3	B		-62503	-27171	74456	338.60
303	163.1	B		-56993	-23895	68138	339.47
304	139.6	B		-30784	-32028	49394	319.58
308	106.7	B		-46408	-19229	56593	340.14
309	223.2	B		-46650	-18627	56619	340.79
311	593.1	B		-53120	-20690	63408	340.96
312	951.6	B		-69145	-26254	80371	340.93
319	668.6	B	Y	-55592	-18254	65025	343.70
410	1429.1	B	R	64412	19078	60671	161.67
412	239.3	B	R	73097	16794	68374	165.78
413	1066.5	B		80275	14678	74909	168.70
418	2071.2	B		110431	23495	106244	167.22
419	481.9	B		108078	24077	104083	166.62
421	413.3	B		93513	19303	88818	167.45
427	188.3	B		71136	49902	81406	142.19
600	374.8	B		18923	-10603	16092	221.22
607	403.4	B		19908	-42243	44224	252.78
610	565.8	B		27363	-43332	47956	244.63
611	625.6	B	R	18670	-52160	53489	257.20

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
612	1048.4	B		17622	-52135	53243	258.29
613	752.2	B	B	20451	-56762	58376	256.49
615	2493.3	B	B	19551	-68393	69568	259.45
616	1694.9	B		19867	-70173	71376	259.47
617	1207.3	B	R	20554	-71362	72672	259.10
619	2158.7	B		12983	-74418	74673	265.26
621	3298.6	B	R	10087	-73512	73584	267.45
625	1008.9	B	R	19188	-79039	80001	261.10
628	923.7	B		15903	-86120	86598	263.98
629	571.2	B		15903	-86121	86599	263.98
630	806.2	B	R	15864	-89756	90211	264.24
631	1547.8	B	R	12622	-92538	92720	266.41
632	758.0	B	B	23617	-86789	88400	259.05
633	650.9	B	B	26547	-94254	96297	258.18
634	948.0	B	R	39515	-79105	85597	247.54
637	481.7	B		44149	-67462	77102	241.04
639	682.7	B		36702	-101212	105531	253.55
700	1240.3	B		-3351	-31842	33426	287.71
701	614.5	B		-3334	-32454	34005	287.37
703	368.9	B	Y	-4116	-29386	31354	290.41
720	655.0	B		-9994	-37404	41009	294.20
721	2104.2	B		-10390	-39280	42884	293.66
725	741.5	B	G	-21902	-35354	45550	309.09
732	425.9	B	G	-10162	-44079	47237	291.07
733	3198.0	B		-10334	-46635	49689	290.19
734	900.9	B		-9330	-44859	47677	289.80
736	856.9	B		-9016	-41606	44517	290.84
737	2406.8	B	G	-6449	-41188	43273	287.85

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
738	467.3	B	G	-3933	-42547	43885	284.18
739	1546.9	B		-4694	-44106	45583	284.63
741	1045.0	B		1131	-43066	43440	277.52
743	1588.6	B		1968	-36843	37161	277.50
744	385.1	B	R	2159	-36197	36496	277.33
747	390.1	B		2459	-40093	40330	276.20
750	1886.4	B		5033	-51298	51329	271.99
755	4082.0	B		-23610	-82466	87901	290.25
756	1483.8	B	Y	-15289	-72740	76025	286.90
757	808.7	B	R	-15518	-71593	74997	287.33
759	1313.2	B	G	-17764	-67343	71689	290.05
760	1713.0	B	R	-11911	-71061	73488	284.77
761	1835.3	B		-11827	-69637	72090	284.99
762	818.3	B		-24032	-68054	74720	294.39
763	1171.7	B	R	-27437	-68934	76976	296.42
764	2569.4	B		-26537	-55956	65143	300.80
768	402.3	B		-26235	-105491	110548	287.40
770	419.9	B	Y	-28971	-126620	131580	285.78
772	944.6	B		-27036	-124010	128548	285.27
773	2214.2	B		-14193	-114364	116279	280.41
1001	359.1	B	G	-18120	-51562	57277	295.81
1002	429.7	B		-9390	-63134	65181	284.40
1003	371.2	B		-15827	-63652	67560	289.58
1004	1429.8	B	Y	-11171	-67346	69707	284.95
1006	1056.0	B	G	-17312	-82951	86390	286.22
1007	235.5	B		-25795	-80258	86631	292.11
1008	623.9	B		-26993	-88878	95092	290.83
1009	311.3	B		-23746	-93506	98374	288.10

PAS--4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1011	2373.0	B		-14508	-160105	161519	277.59
1012	653.2	B		-3144	-147744	148079	273.86
1013	839.9	B		-3636	-144054	144433	274.15
1014	314.3	B	Y	-2023	-142247	142522	273.56
1015	2817.6	B	Y	4056	-148623	148649	271.06
1017	435.2	B	Y	-14624	-131463	133200	279.26
1019	307.3	B	Y	-8927	-117184	118237	277.65
1020	583.9	B	B	-7044	-116377	117200	276.79
1023	311.6	B	Y	-17533	-108488	111187	282.65
1026	1448.0	B		813	-114783	114940	272.99
1027	212.1	B	Y	-4139	-107878	108433	275.80
1029	759.5	B	B	-5668	-107373	108097	276.63
1030	1372.5	B		-1482	-100323	100666	274.73
1031	793.3	B		3576	-93320	93376	271.99
1035	2787.1	B	B	6889	-90033	90033	269.95
1036	1177.7	B		10506	-99182	99250	267.87
1038	494.8	B		10087	-107070	107120	268.25
1041	173.7	B		13585	-157077	157223	267.53
1042	194.7	B		27808	-171359	172640	263.02
1043	541.9	B		27046	-154569	155887	262.54
1045	807.3	B		24745	-126161	127428	261.91
1046	472.3	B		15362	-114738	115056	265.74
1047	5216.0	B	Y	7072	-114601	114601	269.87
1048	257.8	B	B	29014	-107297	109569	258.31
1049	266.6	B	B	2,959	-102666	104087	260.52
1050	323.2	B		17464	-96819	97402	263.72
1051	305.2	B	B	12792	-80753	80974	265.77
1052	296.8	B	R	18242	-76266	77117	261.48

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CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1069	573.1	B	R	-6491	23278	26814	60.24
1070	637.2	B	R	-5961	23797	27012	61.76
1074	2247.3	B	Y	-14390	21504	30203	45.40
1079	566.7	B	Y	-10594	28871	33715	58.91
1084	335.0	B		-16768	33051	40604	54.49
1089	288.9	B	G	-18155	40056	47203	58.06
1090	544.9	B		-17895	39810	46857	58.17
1092	546.4	B	Y	-16230	34869	41798	56.54
1106	363.2	B	Y & G	-8899	31485	35190	63.47
1107	357.0	B	Y	-8829	31427	35106	63.53
1111	546.4	B	B & Y	-7080	27040	30403	62.80
1112	3325.6	B	Y	-5738	26840	29631	64.93
1132	634.0	B	G & Y	3225	29857	30073	83.14
1136	369.5	B		5573	42788	42806	88.33
1138	1588.2	B		5662	46669	46684	88.58
1139	482.7	B	B	5072	46182	46215	87.84
1142	6124.0	B	G	-1515	47092	47824	79.97
1143	263.4	B	R	-6258	44284	46174	73.55
1144	317.1	B	Y	-8945	45697	48339	70.97
1145	1807.7	B	Y	-7073	49614	51522	74.36
1146	843.5	B	G	-7078	49969	51865	74.46
1147	453.3	B		-4462	49463	50733	77.15
1149	1787.8	B	G	-11943	55402	58493	71.29
1150	676.5	B	G	-9929	56275	58714	73.43
1151	147.0	B	G	-11384	57816	60613	72.52
1152	497.1	B	G	-15024	54397	58619	68.12
1153	587.2	B	Y	-19150	54212	60111	64.40
1154	350.7	B	H	-19152	54212	60112	64.40

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1155	376.3	B		-20941	54557	61213	63.03
1156	293.0	B		-19768	54089	60270	63.83
1157	222.2	B	G	-19718	53502	59721	63.62
1158	311.7	B		-19564	54006	60106	63.96
1159	362.8	B	B	-22779	54574	62083	61.53
1160	890.6	B	Y	-19166	47746	54358	61.44
1161	536.2	B	Y	-19843	47506	54476	60.70
1163	407.7	B	Y	-21338	40482	49311	55.18
1165	309.4	B	Y & G	-19347	39501	47381	56.48
1167	417.0	B	G	-11477	54043	57056	71.30
1168	285.7	B		-11178	49765	52919	70.12
1169	550.7	B	G	-7457	52843	54737	74.88
1170	539.7	B	Y	-7485	55804	57608	75.62
1171	428.5	B	G	-10143	56577	59065	73.31
1173	813.1	B		-5590	42160	43948	73.60
1174	595.6	B		1357	40783	41147	82.37
1175	469.1	B	Y	-1575	45145	45919	79.47
1177	756.8	B	Y	-3610	54629	55616	79.19
1179	428.9	B	B	-4646	56220	57377	78.47
1180	529.4	B	G	-6714	61075	62556	77.51
1181	322.7	B		-7775	60772	62499	76.50
1184	1364.4	B	G	-4691	60925	62003	79.30
1185	558.4	B	G	-4478	61345	62377	79.57
1195	1102.7	B	G	-137427	7009	144416	2.78
1196	182.4	B	G	-139462	8718	146540	3.41
1202	61.0	B		-187572	31398	196910	9.18
1204	251.7	B		-228723	-97333	254859	337.55
1205	261.5	B		-244157	-113661	275512	335.64

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1206	218.9	B		-211299	-102602	241044	334.81
1210	688.5	B	G	-126634	-30442	136880	347.15
1211	918.2	B	G	-111562	-25237	121040	347.97
1213	213.6	B		-105322	-33911	117156	343.17
1214	174.7	B		-112388	-32978	123684	344.54
1218	62.7	B		-106483	-58073	127317	332.86
1219	1541.6	B		-85585	-76859	120190	320.25
1221	284.7	B		-45463	-129477	139634	291.99
1222	283.8	B		-28401	-111150	116596	287.58
1223	137.0	B		-27469	-111981	117113	287.02
1224	431.4	B	Y	-28604	-123256	128245	286.03
1225	95.1	B		-30869	-130888	136206	286.06
1226	161.6	B		-30687	-131289	136541	285.94
1227	131.0	B	Y	-30709	-133742	138907	285.67
1228	136.2	B		-30855	-147497	152232	284.33
1233	344.5	B	G	-3233	52982	53927	79.26
1234	211.0	B		-4443	55440	56572	78.52
1235	200.8	B	Y	-7338	52159	54046	74.82
1236	250.8	B	Y & G	-8480	53855	55985	74.14
1238	317.1	B	Y	-11230	54455	57368	71.66
1239	293.8	B	Y	-13187	51374	55132	68.72
1240	493.9	B	G	-18333	50550	56461	63.55
1241	605.3	B	G	-14526	47400	51984	65.76
1242	581.4	B	G	-32333	56630	68846	55.34
1245	283.3	B	G	-32075	58944	70619	56.58
1247	2661.0	B	G	-18976	61974	67127	67.40
1248	289.3	B		-18923	62695	67774	67.68
1249	580.7	B	G	-15702	58783	62949	69.04

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1251	1801.7	B	G	697	51791	52151	83.26
1252	678.1	B		5595	54342	54356	88.71
1253	623.9	B	B	3813	57413	57491	87.00
1254	837.0	B	G	2655	57692	57842	85.87
1257	2322.0	B	Y & B	1697	56195	56428	84.79
1258	612.9	B	G	582	56142	56488	83.66
1260	588.4	B	G	520	55977	56330	83.58
1262	916.3	B	G	-2868	62142	62892	81.14
1263	485.6	B	R	1108	61538	61803	84.70
1264	378.8	B		-5662	62479	63713	78.70
1266	627.4	B	G	-7196	66294	67759	78.06
1267	1755.8	B		-8797	68884	70631	77.23
1268	476.7	B	R	-10161	67442	69547	75.87
1269	811.6	B	R	-17530	67828	72066	70.25
1270	1026.4	B	G	-13057	75653	78221	75.28
1271	889.7	B	Y	-22963	81591	86856	69.95
1273	379.2	B		-35405	79367	89900	61.99
1274	1695.2	B	Y	-29305	83585	91057	66.63
1275	1231.5	B	Y	-23555	89093	94128	71.18
1278	220.9	B		-5376	158778	159245	85.61
1281	409.6	B	Y & G	-5913	43236	45071	73.59
1282	347.9	B	R	-13920	35677	41266	59.83
1283	237.8	B	B	-15912	53686	58300	67.05
1284	369.3	B	G	-15593	54748	59158	67.74
1285	383.0	B	G	-25071	57471	65726	60.98
1287	254.2	B	G	-23888	54236	62325	60.48
1288	274.5	B	R	-31082	54375	66280	55.12
1289	2178.6	B	G & Y	-35910	52456	67656	50.84

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1290	463.9	B	G	-36497	49671	65905	48.91
1292	309.5	B		-16564	68772	72638	71.22
1294	130.0	B	G	-21090	99716	103548	74.36
1296	166.8	B	Y	-28536	104310	110139	71.28
1297	1100.9	B		-32896	108844	115863	69.95
1298	70.6	B		-39233	117277	125994	68.56
1299	157.4	B	Y	-29341	127987	132997	74.22
1300	602.5	B		-14758	175159	176483	82.98
1302	892.3	B		-14961	134316	136070	80.79
1303	1621.8	B		-14641	120482	122379	79.90
1305	210.2	B	Y	-25487	112299	116881	73.90
1306	257.4	B	Y	-25562	107392	112167	73.22
1307	63.0	B		-22230	107231	111096	74.84
1309	788.1	B	B & Y	-15221	102508	104851	77.87
1313	547.6	B		15946	26370	27905	109.09
1315	289.6	B		11042	30661	30951	97.84
1316	430.5	B		14431	32344	33228	103.25
1319	475.6	B		20913	38447	40950	110.13
1320	1209.1	B	R	15540	42517	43403	101.59
1321	348.9	B	R	16579	43148	44238	102.75
1322	521.5	B		15967	46795	47681	101.06
1324	1314.6	B		14482	46592	47218	99.34
1325	719.7	B	R	8811	48611	48652	92.35
1328	477.8	B	Y	18089	53341	54519	101.93
1330	259.5	B	Y	22166	60996	62897	104.12
1332	221.1	B		30069	67492	71385	109.01
1333	591.7	B	G	26864	75748	78356	104.82
1334	156.0	B	B	26908	75961	78573	104.81

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1335	1210.0	B		22848	77776	79411	101.65
1336	3856.0	B	Y	17119	81915	82560	97.17
1337	207.5	B		18718	82768	83619	98.18
1338	244.3	B		21096	83978	85183	99.65
1340	599.4	B		33789	78059	82587	109.06
1342	500.9	B	R	34123	49154	56228	119.05
1346	286.4	B	R	19782	66494	67746	101.03
1347	380.7	B		20077	64437	65787	101.63
1348	188.1	B		19452	63917	65154	101.18
1349	281.2	B		20478	55580	57234	103.81
1351	534.6	B		15568	50374	51129	99.85
1352	467.8	B		9408	51244	51309	92.89
1357	325.0	B	B	9906	40801	40917	94.33
1358	823.9	B	R	7438	40119	40124	90.89
1359	272.0	B	B & Y	9161	32667	32751	94.10
1363	164.9	B	B	19441	18635	22508	124.11
1368	139.8	B	Y	17119	37673	39056	105.29
1369	922.7	B	Y	29504	127846	129843	100.06
1370	146.5	B	Y	34484	130286	133191	101.99
1371	73.8	B	B	35625	130292	133439	102.47
1372	59.0	B		39174	129410	133393	104.04
1373	54.4	B	B	40324	126527	130889	104.83
1374	23.0	B		42264	117057	122306	106.85
1378	600.3	B	R	67163	111160	126483	118.50
1392	544.0	B	R	88491	-36935	89637	204.33
1393	1519.5	B	R	95266	-19529	90579	192.45
1405	445.3	B		120001	-22079	115316	191.04
1412	193.4	B		10221	48000	48120	94.06

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1413	491.8	B	R	17481	55863	56872	100.81
1420	372.3	B		15635	72013	72550	96.98
1422	1081.7	B	R	15925	79690	80208	96.52
1424	3298.1	B	R	14480	85109	85453	95.14
417	817.9	B & N	R	105026	14027	99204	171.87
765	458.4	B & Y	Y	-20032	-61023	66669	293.75
2	2380.3	N		-5585	7211	14347	30.17
4	4536.0	N		-10810	11794	21210	33.79
13	1055.8	N		-35852	32724	53774	37.48
24	417.0	N		-57930	36231	74195	29.23
35	320.8	N		-20624	1341	27474	2.80
37	1304.4	N		-19632	455	26454	0.99
40	1261.2	N		-16278	6232	23922	38.65
41	423.1	N		-7492	11442	18322	38.09
42	396.3	N		-7487	11211	18175	34.40
43	304.1	N		-8284	10342	18304	35.73
45	345.0	N		-8407	10788	18659	39.70
46	1635.0	N		-4788	9635	15084	35.45
47	245.4	N		-6306	9344	16111	26.38
48	285.2	N		-6483	6598	14847	19.94
55	217.5	N		-68028	38163	84014	29.54
57	593.1	N		-30506	2181	37387	1.34
100	1093.4	N		-2558	-6417	11362	332.03
101	1039.0	N		-5316	-6442	13738	318.56
104	379.4	N		-6870	-14488	19932	314.54
105	203.8	N		-7084	-14128	19821	335.13
116	922.8	N		-16967	-13660	27429	332.99
118	185.7	N		-17968	-13532	28239	333.53

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
119	420.1	N	B	-20183	-13442	30162	335.75
120	1466.9	N		-19512	-11859	28877	332.38
125	461.4	N		-19818	-9279	28206	327.15
127	933.4	N		-17999	-19232	31397	319.04
132	1538.7	N		-21380	-23516	36717	316.19
134	324.9	N		-20267	-25667	37315	313.41
135	302.5	N		-18422	-26678	36726	313.52
139	463.1	N		-22147	-25097	38325	320.58
141	764.8	N		-23889	-23899	38911	326.16
142	979.3	N		-25896	-21935	39387	316.83
145	241.8	N		-27032	-28514	44259	316.00
146	550.5	N		-28494	-34101	49090	323.87
151	286.1	N		-20782	-17790	32836	334.24
152	321.8	N		-22463	-14129	32512	334.13
155	808.8	N		-13442	-3470	20555	321.43
157	721.4	N		-13509	-15734	25704	321.88
170	515.5	N		-14312	-10108	23423	339.19
174	169.1	N		-20465	-9662	28943	341.06
175	203.6	N		-21063	-9569	29478	338.70
181	427.9	N		-28456	-2771	35382	355.51
202	396.0	N		-36712	-4070	43720	354.66
230	581.5	N		-43924	-16277	53288	342.21
236	137.6	N		-37060	-18546	47637	337.09
242	172.6	N		-34679	-19910	46026	334.37
243	562.5	N		-33026	-25990	47571	326.88
251	310.8	N		-22202	-33189	44087	311.17
253	210.1	N		-24310	-29262	42723	316.77
254	201.1	N		-25023	-27000	41748	319.70

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
255	192.0	N		-23876	-25624	39984	320.14
261	1280.1	N		-38887	-48122	66368	313.52
263	685.5	N		-40441	-51436	69850	312.58
270	1696.5	N		-56629	-51361	81630	316.50
272	279.1	N		-65879	-60378	94500	320.80
274	776.9	N		-51651	-38770	70155	324.68
296	688.3	N		-66526	-33078	80458	335.72
307	225.1	N		-46685	-21614	57704	338.00
320	170.5	N		-52607	-17069	61827	343.97
400	2223.9	N		20956	10599	17669	143.14
403	3010.0	N		34222	12045	29934	156.27
408	3855.0	N		56209	12061	50842	166.28
409	1023.1	N		58712	4330	52074	175.23
414	438.8	N		89422	7026	82903	175.14
420	26082.0	N		99093	19777	94371	167.90
423	415.7	N		51599	1544	44807	178.02
424	250.0	N		52919	7468	46702	170.80
428	514.4	N		81399	59736	95555	141.31
429	801.4	N		85578	56106	96700	144.54
431	4536.0	N		82045	33707	82434	155.86
434	190.6	N		89481	21833	85498	165.21
435	143.2	N		86578	16475	81444	168.33
436	319.8	N		90165	16053	84879	169.10
601	468.4	N		21307	-17610	22804	230.55
603	2245.9	N		27325	-24496	31946	230.06
635	426.7	N		44460	-69279	78845	241.48
704	274.7	N		993	-20314	21132	286.00
712	394.0	N		-8569	-28223	32144	298.60

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
714	1203.0	N	R	-11557	-31090	36115	300.58
722	9525.0	N		-13789	-35685	41208	300.00
724	634.9	N		-19661	-38177	46461	304.74
726	1077.7	N		-23197	-39671	49746	307.11
727	776.9	N		-20663	-40051	48573	304.46
728	4763.0	N		-18364	-42227	49165	300.81
729	2420.6	N		-14972	-41235	46638	297.85
731	1168.4	N		-12612	-42487	46719	294.58
767	1502.6	N		-5021	-15891	19816	306.69
1005	4763.0	N		-26497	-65354	73355	297.01
1010	766.8	N		-13649	-121105	122823	279.59
1054	335.9	N		29400	-54696	59174	247.57
1056	329.0	N		62937	-66739	87197	229.94
1057	1859.6	N		-3461	8057	13060	38.09
1058	992.7	N		-5815	11890	17348	43.26
1059	1413.2	N		-6301	12077	17832	42.63
1060	931.6	N		-4242	12583	16752	48.69
1062	2280.9	N		-7329	12213	18690	40.80
1063	1000.8	N		-9866	16654	23574	44.95
1065	4990.0	N		-5762	20183	23783	58.06
1071	564.0	N		-12822	22266	29690	48.59
1073	524.0	N		-13747	21560	29795	46.35
1076	791.1	N		-12969	26738	33263	53.50
1078	597.7	N		-11609	28896	34272	57.47
1081	1132.1	N		-16754	30386	38458	52.20
1083	456.7	N		-16364	33624	40841	55.42
1101	663.3	N		-8979	37445	40641	67.13
1120	513.0	N		4497	15802	15972	81.64

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CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1121	1080.3	N	G	6357	14338	14345	88.16
1126	673.8	N		-1179	25052	26297	72.30
1129	737.8	N		-2560	28162	29682	71.58
1176	2730.8	N	G	-4119	54089	55184	78.57
1189	76.5	N		-97988	7869	105101	4.29
1192	893.9	N		-122043	19352	130306	8.54
1193	106.8	N		-126949	17089	134854	7.28
1197	161.5	N		-134725	11718	142027	4.73
1198	217.6	N		-142684	14317	150186	5.47
1199	387.1	N		-162398	13301	169738	4.49
1201	884.1	N		-183442	30280	192655	9.04
1209	54.7	N		-166444	-52491	181038	343.15
1215	567.1	N		-114923	-52118	132428	336.82
1229	702.5	N		-29909	-155778	160049	283.27
1272	724.9	N		-25069	80615	86692	68.42
1311	563.9	N		13655	18722	19931	110.06
1314	838.6	N		11175	25719	26085	99.61
1323	755.2	N		15111	46589	47321	100.09
135C	183.1	N		11077	41052	41273	95.92
1362	738.2	N		18272	24076	26662	115.44
1365	2045.2	N		30848	27846	36781	130.79
1386	1100.9	N		56319	-19228	53104	201.23
1387	463.6	N		56260	-17913	52587	199.92
1389	521.1	N		74594	-30404	74284	204.16
1394	880.9	N		100167	-29752	97975	197.68
1396	889.1	N		85667	-9940	79473	187.19
1397	276.7	N		85027	-12713	79235	189.23
1400	1623.7	N		70366	-30499	70488	205.64

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1402	2806.6	N		98412	-176	91594	180.11
1404	1432.4	N		149622	-11011	143228	184.41
1408	771.3	N		89418	9347	83127	173.54
1410	757.4	N		24076	16379	23793	136.50
1411	1182.1	N		19958	23260	26715	119.46
6	717.1	R		-19420	20682	33409	38.25
7	474.1	R		-19987	21945	34642	39.31
9	308.4	R		-20359	19678	33553	35.91
11	717.4	R	G	-32310	29229	48840	36.76
27	387.8	R		-37688	30520	53965	34.44
32	215.7	R		-28812	16116	39105	24.34
184	89.5	R		-29241	-5592	36490	351.19
228	1993.7	R		-45392	-17307	55003	341.66
411	2438.1	R		69658	19613	65830	162.67
430	1740.2	R		89261	42496	92751	152.73
432	911.9	R		83963	30677	83021	158.31
437	285.0	R		69505	13442	64112	167.90
706	901.0	R		5377	-25157	25198	273.28
716	398.0	R	G	-1189	-32715	33680	283.75
742	349.3	R	Y	-2768	-33097	34457	286.15
1016	1937.4	R	Y	3346	-132814	132859	271.50
1018	213.8	R	B	-16406	-122095	124284	280.77
1021	264.3	R		-7281	-116121	116974	276.92
1032	643.6	R	G & Y	3574	-93318	93375	271.99
1039	836.6	R	B	11405	-116206	116296	267.74
1044	393.1	R	Y	39597	-145825	149464	257.33
1085	847.9	R		-21622	32042	42843	48.41
1086	2006.0	R		-23145	31721	43635	46.63

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1087	1571.2	R		-26912	33387	47460	44.71
1093	731.9	R		-12581	36792	41593	62.20
1094	825.5	R	G	-7402	37818	40403	69.39
1095	1063.8	R		-6383	39948	42072	71.71
1098	899.7	R	G	-2345	42780	43750	77.91
1099	1003.7	R		-2136	40179	41165	77.44
1110	1414.5	R		-5354	27208	29807	65.90
1117	878.9	R		950	20058	20898	73.69
1135	416.6	R	G	4950	25379	25448	85.79
1172	257.1	R		-6906	49721	51580	74.57
1188	735.1	R		-84438	13903	92309	8.66
1203	320.8	R		-236500	-69584	253073	344.04
1220	124.8	R		-51675	-113333	127538	297.30
1231	235.3	R		-28841	-158744	162699	282.66
1276	607.8	R	G	4362	111450	111477	88.74
1295	196.2	R		-24778	100239	105101	72.50
1304	648.4	R	Y	-20718	109441	112852	75.88
1327	907.0	R		18048	51858	53060	102.22
1328	524.4	R		19151	49328	50847	104.04
1339	752.3	R		25194	85046	87009	102.19
1341	138.9	R		38628	53418	62172	120.77
1344	229.6	R		25478	43317	47165	113.31
1367	201.5	R	R	17542	37611	39110	105.91
1375	23.9	R		36592	103790	107976	106.01
1376	107.1	R	R	41179	101835	107476	108.65
1391	1469.3	R	R	84130	-33818	84385	203.63
1415	341.8	R	R	15562	58973	59617	98.43
1416	666.0	R	R	14846	61806	62325	97.40

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM G2	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1417	712.9	R		14685	67288	67746	96.67
1419	429.1	R	Y	16016	70275	70874	97.46
1377	99.7	R & B		32414	98529	101799	104.56
8	1089.0	W	G	-21225	20074	34487	35.60
218	407.9	W		-57638	-7984	64949	352.94
256	601.3	W		-24732	-24915	40202	321.70
433	183.5	W	R	81101	35371	82274	154.54
623	1678.9	W	B	12699	-77911	78133	265.68
624	792.5	W	R	13969	-79799	80119	264.88
626	1219.8	W	R	16938	-81041	81670	262.88
627	1127.4	W	Y	15479	-84445	84888	264.14
717	476.3	W	R	4871	-35188	35242	273.17
740	615.4	W		-1383	-46285	47005	280.05
746	566.2	W		3210	-39201	39367	275.26
749	294.1	W	G	3983	-48169	48252	273.37
751	619.7	W		3577	-55294	55389	273.35
752	635.4	W	G	-2379	-55685	56439	279.38
753	318.6	W	G	-25395	-90876	96417	289.52
754	2456.3	W	G	-21094	-86554	90943	287.87
1022	441.0	W		-16709	-111296	113756	281.94
1024	687.7	W		-15764	-107596	109941	281.85
1025	1028.4	W		-16862	-102076	104787	283.06
1034	581.9	W	G	7306	-81930	81932	269.66
1037	1543.1	W	G	9630	-90828	90871	268.23
1040	522.8	W		8340	-131759	131768	269.34
1067	3629.0	W	G	-5198	22676	25663	62.08
1068	609.6	W		-4774	22940	25702	63.19
1077	912.3	W		-15505	26288	34487	49.66

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1082	521.6	W		-17194	30119	38519	51.44
1096	960.5	W	Y	-5430	45386	47010	74.90
1097	1596.9	W	G	-2338	48579	49435	79.33
1102	376.5	W		-6597	36191	38597	69.66
1116	1154.5	W		3898	21108	21309	82.12
1119	422.5	W		-2522	18204	20461	62.84
1124	1064.4	W		3007	26446	26720	81.80
1130	2412.1	W	G	-6386	28836	31715	65.40
1131	1452.6	W		3241	33716	33906	83.94
1141	510.2	W	G	2570	49961	50141	85.14
1182	252.5	W		-8240	60439	62287	76.01
1183	383.0	W		-9923	59607	61913	74.31
1186	907.1	W		-4477	61346	62377	79.57
1190	364.4	W		-98769	29763	109701	15.74
1230	617.3	W		-29409	-157755	161861	282.93
1246	783.0	W	R	-29048	64886	74139	61.07
1250	350.7	W		5264	36402	36435	87.56
1255	3233.7	W		3073	53517	53648	86.00
1256	402.3	W		2232	54719	54910	85.21
1259	2788.2	W	R	-1739	54580	55246	81.09
1277	1334.9	W	Y	1965	143415	143497	88.06
1279	1159.7	W		4218	83133	83174	88.21
1286	318.6	W	R	-25329	57366	65759	60.73
1301	312.0	W		-10730	175450	176326	84.29
1326	1761.3	W	G	8268	48778	48800	91.70
1350	473.7	W		18496	55136	56359	101.96
1354	511.8	W		8184	46594	46614	91.68
1355	320.4	W		11587	40460	40740	96.72

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.L. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1360	423.8	W	G	11148	32705	32990	97.54
1364	2930.3	W	R	28244	23052	31471	132.91
1	857.2	Y		-13981	4672	21317	12.66
3	1796.7	Y	B/Y	-9173	9100	18399	29.64
5	1082.6	Y	G	-15809	19639	29961	40.96
10	235.3	Y		-21724	20686	35250	35.93
17	440.9	Y	G	-37941	33993	56203	37.22
18	1128.6	Y		-38558	33199	56224	36.19
19	728.9	Y		-40854	30562	56627	32.66
28	878.7	Y	G	-42366	22740	54186	24.81
29	317.2	Y	G	-28151	23692	42239	34.12
30	362.3	Y		-28173	20425	40516	30.27
33	1361.7	Y	G	-26910	10754	35401	17.68
34	1349.0	Y		-23274	8804	31353	16.31
36	495.7	Y		-21302	-18	28120	359.96
38	199.8	Y		-15959	2394	22903	6.00
39	522.9	Y		-16068	2743	23049	15.10
44	382.1	Y		-8714	11175	19134	35.32
49	429.8	Y	G	-14434	7711	22608	10.10
50	277.1	Y		-19294	4653	26523	16.98
56	332.0	Y		-32148	22086	44790	3.34
58	1196.3	Y		-42148	1146	48980	2.92
59	560.8	Y		-42936	2539	49819	13.79
60	381.5	Y	G	-50523	14077	59044	23.43
61	638.0	Y		-55146	26853	67533	30.98
63	247.9	Y		-97442	-2722	104296	20.00
64	614.2	Y		-58514	23773	69523	7.57
65	428.1	Y		-68505	10015	75986	4.90

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
66	2303.0	Y		-84057	7790	91209	23.39
68	262.6	Y	G	-64053	26330	75604	23.79
69	211.2	Y		-65184	31736	78686	34.28
71	216.3	Y		-51589	42071	71982	35.22
102	207.4	Y	G	-6349	-11627	17566	317.78
103	693.3	Y		-8230	-13653	20318	313.37
106	1692.8	Y	G	-13625	-9475	22532	344.38
107	404.4	Y	B	-15813	-6329	23500	348.71
109	253.9	Y		-19186	-3153	26194	357.82
110	178.5	Y		-20276	-1030	27114	354.53
111	210.9	Y		-22644	-2819	29597	349.35
113	217.2	Y		-23995	-6284	31447	349.51
115	710.8	Y		-18581	-15177	29588	330.13
123	385.8	Y	G	-19045	-9327	27493	342.87
124	318.2	Y	G	-19490	-8108	27529	340.79
128	1970.8	Y	G	-18350	-21848	33328	317.54
129	391.0	Y		-18220	-22909	33937	318.47
130	385.8	Y		-19141	-22988	34675	319.82
131	288.3	Y	G	-20664	-23212	35973	320.17
133	2135.5	Y	G	-19803	-25535	36888	316.54
137	520.9	Y		-20958	-26499	38389	316.91
138	204.8	Y		-20689	-25735	37669	319.09
148	326.8	Y		-24718	-19303	36975	328.73
149	253.4	Y		-24349	-18929	36465	328.76
150	464.4	Y		-23186	-18201	35093	327.20
163	3000.4	Y	G	-15381	-19960	29852	322.02
167	242.4	Y		-15590	-17268	28289	327.61
171	433.8	Y		-11568	-6988	19669	337.31

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
172	110.2	Y		-19546	-11024	28576	336.54
173	231.2	Y		-18584	-11023	27690	340.50
179	385.9	Y		-25996	-2033	32877	357.34
182	505.7	Y	B	-31021	-1111	37855	358.32
183	1502.2	Y	G	-30266	-3240	37225	355.01
187	217.2	Y		-29752	-9150	37698	345.95
188	174.2	Y	G	-26208	-13043	35509	338.45
192	335.4	Y		-32155	-17105	42562	336.30
193	327.2	Y		-29788	-12049	38538	341.78
194	150.2	Y		-30732	-11577	39294	342.86
195	159.7	Y	G	-31630	-13063	40607	341.23
196	422.0	Y		-33960	-11055	42250	344.83
197	159.5	Y		-34061	-11070	42352	344.85
199	130.0	Y		-34665	-7370	42133	349.93
201	203.3	Y		-33943	-3458	40907	355.15
203	701.5	Y		-36740	-5268	43875	353.10
205	822.1	Y	G	-39042	-4299	46061	354.64
206	493.2	Y		-37766	-8066	45307	349.75
207	184.8	Y		-41390	-4580	48425	354.57
208	177.9	Y		-42281	-4738	49327	354.49
209	205.6	Y		-42464	-5649	49605	353.46
211	459.8	Y		-47754	-5721	54871	354.02
212	98.4	Y		-48436	-7502	55761	352.27
213	552.1	Y		-49537	-5799	56653	354.12
215	152.8	Y	G	-56921	-3102	63815	357.21
217	504.9	Y		-45879	-8744	53417	350.58
221	718.3	Y		-48678	-16391	57866	343.55
222	138.2	Y		-47027	-16065	56190	343.39

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
223	571.5	Y	G	-46678	-17296	56222	342.08
226	104.2	Y		-47199	-10714	55069	348.78
229	258.2	Y		-43812	-18347	53852	340.08
230	91.7	Y		-39221	-17878	49389	338.78
231	727.7	Y		-39062	-17892	49246	338.70
233	125.6	Y		-40618	-16878	50349	340.41
234	236.5	Y		-40863	-18817	51259	338.46
235	433.7	Y		-38425	-18883	49026	337.35
237	229.8	Y		-37538	-15713	47057	340.49
238	333.2	Y		-39302	-12883	47885	344.39
239	1109.0	Y		-50564	-5695	57664	354.33
240	758.2	Y		-50701	-5566	57788	354.47
241	380.6	Y	G	-35317	-20726	46957	333.81
245	297.8	Y		-31268	-24129	45086	327.64
246	119.4	Y		-32002	-23431	45344	328.89
269	126.6	Y		-49878	-53803	78162	325.14
276	356.7	Y	B	-42931	-34291	60422	332.52
277	79.0	Y		-43788	-33248	60551	325.42
279	95.5	Y		-40117	-29296	55328	328.03
281	151.3	Y		-43343	-28942	57912	330.02
283	540.6	Y	G	-49246	-30288	63722	331.62
285	190.2	Y		-46698	-27465	60152	332.83
287	154.4	Y		-45553	-28661	59700	331.31
288	113.3	Y		-46626	-28736	60680	331.73
289	129.5	Y		-47142	-26300	60028	334.02
291	339.2	Y	G	-47823	-25073	60119	335.35
293	233.4	Y		-51814	-23786	63273	337.92
297	219.0	Y		-60572	-38430	77578	330.31

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
301	315.7	Y		-61418	-23738	72247	340.82
302	813.2	Y	G	-58784	-22459	69340	341.10
305	137.0	Y		-31627	-31379	49625	320.78
306	173.7	Y		-34846	-32355	52751	322.17
310	253.0	Y		-45445	-21673	56579	337.48
314	469.9	Y		-70968	-23189	81169	343.40
315	415.9	Y		-72516	-7733	79710	354.43
316	574.4	Y		-60432	-8023	67727	353.20
317	1204.1	Y		-56777	-12986	64907	348.46
318	517.3	Y	G	-52980	-13903	61393	346.91
401	253.4	Y		22882	11988	20045	143.27
402	448.6	Y		23335	12887	20950	142.04
404	333.9	Y	B	33351	9796	28283	159.74
405	734.9	Y		38815	7314	32822	167.12
406	373.2	Y		44290	16380	40896	156.39
407	359.3	Y	R	49553	16476	45801	158.92
425	934.5	Y		55330	14158	50536	163.73
426	442.0	Y	B	53627	28375	54738	148.78
602	566.1	Y	B	15766	-25645	27161	250.77
604	4082.0	Y	G	30244	-25763	34821	227.72
605	746.8	Y		28895	-27503	35268	231.25
606	518.5	Y		25912	-33467	38530	240.29
608	621.0	Y		22922	-39939	43063	248.04
609	1328.6	Y		26632	-40470	45060	243.91
614	1083.6	Y	R	20238	-66203	67549	258.54
618	322.6	Y		3396	-80319	80392	272.44
620	768.3	Y	G	12955	-75193	75443	265.33
622	1384.9	Y		12813	-73591	73835	265.34

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
636	413.0	Y	B	43695	-69027	78260	241.89
638	1009.1	Y		16374	-67570	68242	261.95
640	981.0	Y	R	47948	-57037	70320	234.20
702	262.1	Y		-4299	-29306	31344	290.77
705	931.0	Y		-6292	-22690	26206	300.02
707	448.5	Y		3773	-25773	25952	276.74
708	622.5	Y		1041	-26648	27267	282.23
709	160.9	Y		3726	-29694	29855	275.94
710	766.9	Y		2540	-29774	30079	278.18
711	422.1	Y		-505	-28742	29661	284.29
713	596.5	Y		-9472	-32149	36040	296.87
715	1093.5	Y		-7249	-32559	35468	293.37
718	519.4	Y		2110	-35866	36173	277.48
735	1220.4	Y		-12868	-40678	45191	295.82
745	1596.7	Y	G	3054	-37489	37678	275.73
748	812.4	Y		4496	-41929	41993	273.17
758	1248.1	Y	B	-16491	-70851	74587	288.21
766	381.8	Y		-21637	-35726	45673	308.54
769	368.5	Y		-17423	-110625	113250	282.36
771	565.1	Y	G	-31709	-124457	130283	287.20
1033	3573.2	Y	R	-3280	-76997	77656	277.47
1053	729.2	Y	B	25700	-67494	70086	254.37
1055	7031.0	Y	B & G	37409	-58724	66214	242.48
1061	2145.1	Y		-4073	15428	18884	54.78
1064	734.5	Y	B	-9764	18237	24649	47.72
1066	1592.0	Y	Y	-5138	21711	24785	61.16
1072	1050.9	Y	G	-13556	21668	29742	46.76
1075	1252.6	Y	B	-11050	26935	32323	56.44

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1080	1701.1	Y		-15275	30119	37354	53.74
1088	353.4	Y	Y	-23761	36892	47918	50.35
1091	224.6	Y	Y	-14977	37780	43616	60.02
1100	402.4	Y	G	15	41294	41850	80.65
1103	738.5	Y	B	-7419	35852	38575	68.34
1104	1167.1	Y	B	-7513	35442	38230	67.98
1105	418.8	Y	B	-8591	31827	35361	64.17
1108	880.1	Y		-6255	31989	34558	67.77
1109	4763.0	Y	B	-5420	30607	32963	68.21
1113	550.7	Y	B	-5259	25248	27988	64.44
1114	1421.5	Y	Y	-3153	24003	25991	67.44
1115	4763.0	Y		-257	22574	23656	72.60
1118	820.0	Y		359	17171	18345	69.39
1122	1574.1	Y	G	6672	16631	16632	89.50
1123	1291.7	Y	G	6508	22397	22400	89.21
1125	515.6	Y	R	2355	25627	26013	80.12
1127	2205.8	Y	Y	-1854	25414	26853	71.16
1128	1455.3	Y	Y	-2428	27504	29017	71.42
1133	1894.3	Y	G	3267	29331	29545	83.10
1134	709.3	Y	G	2911	28567	28833	82.21
1137	998.4	Y	G	1230	43911	44265	82.75
1140	933.5	Y		4579	50859	50908	87.48
1148	1200.0	Y		-10065	49201	52017	71.06
1162	618.4	Y	G	-17542	43378	49750	60.68
1164	566.9	Y	G	-23931	37871	48782	50.93
1166	312.5	Y	B	-15258	43559	48834	63.12
1178	537.8	Y	B	-4199	55435	56520	78.76
1191	113.7	Y		-87815	61124	112657	32.86

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1194	68.7	Y		-136812	3676	143677	1.47
1200	339.1	Y	G	-167385	19737	175317	6.46
1207	439.9	Y	G	-200281	-98006	229118	334.68
1208	196.5	Y		-200207	-98429	229233	334.57
1212	720.9	Y		-91657	-35919	104821	339.96
1216	52.2	Y		-132349	-53472	149086	338.98
1217	159.9	Y		-141016	-75073	165803	333.08
1232	400.9	Y	Y	-9633	47687	50358	71.25
1237	187.9	Y	R	-9504	53481	55916	73.03
1243	1899.6	Y	Y	-33895	56811	69893	54.37
1244	533.7	Y	B	-33356	59091	71454	55.79
1261	497.0	Y	R	-1461	59065	59642	82.02
1265	1478.7	Y		-6780	64143	65568	78.03
1280	364.3	Y		4921	30821	30879	86.48
1291	327.2	Y		-15103	68653	72068	72.29
1293	311.7	Y	G	-18980	98652	101969	75.34
1308	301.3	Y	G	-16785	101819	104519	76.95
1310	724.3	Y		-14835	101052	103346	77.91
1312	1969.9	Y	R	16619	21461	23593	114.55
1317	2069.9	Y	B	18850	37471	39355	107.80
1318	1271.5	Y		21110	36962	39629	111.14
1331	513.0	Y		20948	59920	61563	103.27
1343	351.0	Y		30882	46767	52595	117.23
1345	563.3	Y	R	22960	44864	47680	109.79
1353	382.8	Y	G	9154	50251	50305	92.66
1361	211.3	Y	G	12702	26551	27195	102.50
1366	387.3	Y		24071	35042	39059	116.21
1379	359.7	Y	R	66662	106370	122049	119.36

PAS-4
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY COLOR OF CONCRETE

I.D. MARK	WEIGHT (gm)	COLOR		COORDINATES		FROM GZ:	
		CONCRETE	BEAD	X (mm)	Y (mm)	RANGE (mm)	AZIMUTH (deg)
1382	392.3	Y		32182	-17730	30947	214.95
1383	2235.3	Y		41155	-21999	40780	212.65
1384	996.3	Y		45449	-30429	49176	218.23
1388	904.9	Y	B	62235	-21309	59373	201.03
1401	355.8	Y		76583	-3144	69836	182.58
1407	1354.7	Y	R	106763	-2618	99979	181.50
1414	640.1	Y		15017	59042	59608	97.91
1418	401.6	Y	Y	17545	69681	70502	98.75
1421	2254.4	Y	G & Y	15932	78359	78887	96.63
1423	702.4	Y	G	16962	77859	78517	97.42
295	131.5	Y & B		-56570	-31148	70628	333.83
1381	1100.3	Y & B		33708	-17991	32354	213.78
Totals	682689.7						