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LAWLESS

6/13/89

PIPE SCALE SHEET

Organ No. 11739Date: December 3, 1986

CALVARY CHURCH,

CHARLOTTE

NORTH CAROLINA

Customer

City

State

STOP	PITCH	PIPES	SCALE	HALVING	MOUTH	REMARKS	W.P.
<u>GREAT ORGAN</u>							
Montre	16	73	36/45/56	17	1/4	24 Zinc SM	7"
Pommer	16	73	LMB	Reg. Stpd.	Flute Treble	Wood	7"
Open Diapason	8	61	41/52	17	2/9-1/4	12 Zinc SM	7"
Principal	8	61	43-3/4/54-3/4	17	1/4	12 Zinc SM	7"
Flute Harmonique	8	61	46/54	Reg.	1/5-1/4	12 Zinc SM	7"
Spitzflote	8	61	44-2/3	18	1/5	12 Zinc SM	7"
Gross Quint	5 1/3	29	54	17	2/9	SM	7"
This is an extension of the Ped 10-2/3' Gross Quint							
Octave	4	61	54	18	1/4	SM	7"
Prestant	4	61	56-3/4	17	1/4	SM	7"
Flute Ouverte	4	61	56	21	1/5	SM	7"
Rohrflote	4	61	58	21	2/9-1/5	OS Chimneys 12 Zinc SM	7"
Chimneys to be 1/2 the speaking length of the pipe with 1/2 diameter of the pipe with 1/2 taper.							
Gross Terz	3 1/5	61	60-3/4	17	1/5	SM	7"
Jeu de Tierce	II Rks.	122	Formula "A"			SM	7"
Super Octave	2	61	67	18	1/4	SM	7"
Waldflote	2	61	62-3/4	19	1/5		
Grande Fourniture	III-IV Rks.	220	Formula "B"			SM	7"
Fourniture	IV-VI Rks.	250	Formula "C"			SM	7"
Scharff	III-V Rks.	227	Formula "D"			SM	7"

PITCH A-440 @ 70°COMPLETION August 15, 1988

60° Languids bevel unless otherwise specified
 Chorus reeds harmonic at 1' F#
 Enchamade reeds harmonic at 1' C
 Tuba harmonic at 2' C

PIPE SCALE SHEET

Page 2

Organ No. 11739

Date: December 3, 1986

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<u>GREAT ORGAN</u> (continued)							
Posaune	16	61	CCC 5", CC 3" 30 #1-36 BB(1/8) Esch. #37 up BB(F) Esch. 61 reeds				7"
Trompete	8	68	3-1/2" 30 Zinc & SM #1-24 AA(1/8) Esch. #25 up AA(F) Esch. 54 reeds, #55 up double flue trebles 8' & 4' pitch				7"
Klarine	4	80	3" 30 Zinc SM #1-12 AA(1/8) Esch. #13 up AA(F) Esch. 42 reeds double flue trebles of 4' & 2' pitch				7"
Millenial	16	61	Full length, CCC 5", BBB 3-1/2", CC 4" Reg. (polished bronze resonators) 1-12 B(1/8) Esch. 13 up B(F) Esch. 1-12 windows glass tuners 13 up S.M. insert tuners.				10"
Millenial	8	68	4-1/2" Sc. large tip AB(F) Esch. (polished bronze resonators) 54 reeds, #55 up double flue trebles of 8' & 2-2/3' pitch. S.M. insert tuners				10"
Millenial	4	68	3-3/4" Reg. (break back to 8' @ #43) B(F) Esch (polished bronze resonators) 54 reeds, #55 up double flue trebles of 8' & 2-2/3' pitch				10"
<u>POSITIV ORGAN</u>							
Quintaten	16	73	38/55	21	2/9	12 Zinc SM 49 ears	7"
Prinzipal	8	61	44/55	17	1/4-2/7	12 Zinc SM 25 ears	7"
Schwebung	8	61	50/56	17	1/4	12 Zinc SM 25 ears	7"
Singend Gedeckt	8	61	50	21	2/9	12 Zinc SM Caps 25 ears	7"
Oktav	4	61	55	17	2/7	SM 8 ears	7"
Koppelflote	4	61	62	21	1/4	SM 12 ears	7"
Sesquialtera	II Rks.	122	Formula "E"			SM No ears	7"
Super Octave	2	61	68	17	1/4	SM No ears	7"
Schweitzerflote	2	61	64-2/3	19	1/5	SM No ears	7"
Quint	1 1/3	61	72	18	2/9	SM Break @ 55 No ears	7"
Oktavlein	1	61	76	18	1/4	SM Break @ 50 No ears	7"

PIPE SCALE SHEET

Page 3

Organ No. 11739

Date: December 3, 1986

CALVARY CHURCH,

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NORTH CAROLINA

Customer

City

State

STOP PITCH PIPES SCALE HALVING MOUTH REMARKS W.P.

POSITIV ORGAN (cont.)

Mixture	III-V Rks.	228	Formula "F"			SM No ears	7"
Zimbel	III-IV Rks.	214	Formula "G"			SM No ears	7 "
None	8/9	61	79	19	1/6	break @ 48 SM No ears	7"
Clochette	III Rks.	168	Formula "H"			Tin No ears	7"
Dulzian	16	61	2" Lift Lid			Zinc & CM B(1/8) Esch.	7"
Klein Trompete	8	68	3-1/2" Reg.			Zinc & SM C(F) Esch. double flue trebles of 8' & 2-2/3' pitch	7"
Krummhorn	8	61	Dom Bedos 1-3/4" Sc.			B(F) Esch. SM	7"
Trichter Regal	4	61	2-1/4" @ 4'C O.T. Oboe like 11327			SM C(F) Esch	7"

SWELL ORGAN

Gambe	16	73	40/50	18	2/9	24 Zinc and SM	7"
Bourdon Doux	16	73	RMB #1-24, 4'C 60	21	2/9	L.L.I.S. Chimneys 24 Wood CM	7"
Montre	8	61	42	17	1/4	12 Zinc SM	7"
Viole Celeste	8	61	52/62	18	2/9	12 Zinc SM	7"
Salicional	8	61	56-3/4	18	1/5	12 Zinc SM	7"
Voix Celeste	8	61	56-3/4	18	1/5	12 Zinc SM	7"
Flute Douce	8	61	54-1/2/60-1/2	18	1/6	12 Zinc CM	7"
Flute Celeste T.C.	8	49	60-1/2	18	1/6	CM	7"
Prestant	4	61	56	18	1/4	SM	7"
Flute Octaviant	4	61	60 Reg. (Har. Flute) 1/5-1/4			SM	7"
Unda Maris	4	122	Unison & Celeste				
	II Rks.		65-2/3	18	2/9	SM	7"
			Unison rank to have feet 6" longer than Celeste rank				
Nazard	2-2/3	61	60-2/3	17	2/9	SM (inventory)	7"

PIPE SCALE SHEET

Page 4

Organ No. 11739

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CALVARY CHURCH,

CHARLOTTE

NORTH CAROLINA

Customer

City

State

STOP

PITCH PIPES SCALE HALVING MOUTH REMARKS

W.P.

SWELL ORGAN (cont.)

Doublette	2	61	68	17	1/4	SM	7"
Quarte de Nazard	2	61	63-3/4	17	1/5	SM Break @ 57	7"
Tierce	1-3/5	61	68-2/3	17	1/5	Break @ #57 SM	7"
Plein Jeu	III-V Rks.	232	Formula "J"			SM	7"
Cymbale	III-V Rks.	232	Formula "K"			SM	7"
Contre Trompette	16	61	F/l CCC 5-1/2", CC 3-1/2"	42	Zinc & SM B-C(F)	Esch	7"
Basson	16	73	CCC 3-7/8" #1-12 1/2 L, CC 3-7/8" FL Reg.			Reg. open oboe adjust scale diameter to be normal GGG diameter at BBB C(F) Esch.	7"
Trompette	8	68	3-3/4" Reg.		Zinc & SM B(F) Esch.	double flue flue trebles of 8' & 2-2/3 pitch	7"
Cor d'Amour	8	61	(inventory 11770) 3" Sc.				7"
Voix Humaine	8	61	2" Reg. Lift Lid		Zinc & SM B(F) Esch.		7"
Clairon	4	80	3-1/2" Reg.		Zinc & SM B(F) Esch.	double flue trebles of 4' & 2' pitch	7"

CHOIR ORGAN

Gemshorn	16	73	CCC 38/CC 48-3/4/FF# 54-2/3, C 60-2/3	17	1/4	24 Zinc SM 37 ears	7"
Viola Pomposa	8	61	44-2/3	17	2/9	12 Zinc SM 37 ears Slotted	7"
Viola Celeste	8	61	50-2/3, 4'C 60-2/3, 4'E 60-2/3, 4'F 61-2/3 etc.	17	2/9	12 Zinc SM 37 ears Slotted	7"
Gemshorn Celeste	8	61	53-1/2, 60-1/2	17	1/4	12 Zinc SM 37 ears	7"
Zauberflote	8	61	#1-12 54 20	2/9		solid cap	7"
			#13-24 60 20	2/9		Rohrflote L.L.I.S. Chimneys	
			#25 up 72 20	2/9		Capped harmonic SM 25 ears	
Kleine Erzahler	8 II Rks.	110	Unison 54-1/4	17	1/5	12 Zinc SM 37 ears	
			Celeste T.C. 66-1/4 at 4'C	17	1/5	SM 25 ears	7"

PIPE SCALE SHEET

Page 5

Organ No. 11739

Date: December 3, 1986

CALVARY CHURCH,

CHARLOTTE

NORTH CAROLINA

Customer

City

State

STOP

PITCH PIPES SCALE HALVING MOUTH REMARKS

W.P.

CHOIR ORGAN (cont.)

Fugara	4	61	59	18	2/9	SM 25 ears	7"
Spillflote	4	61	55/64	17	2/9	L.T.T. 12 Zinc SM 12 ears	7"
Rohr Nazard	2-2/3	61	65	20	2/9	S.I.S. Chimneys SM 12 ears	7"
Blockflote	2	61	60	18	2/9	No ears	7"
Terzflote	1-3/5	61	66	18	1/5	break @ 57 SM No ears	7"
Larigot	1-1/3	61	69	18	2/9	break @ 55 SM No ears	7"
Sifflote	1	61	74	17	1/5	break @ 50 SM No ears	7"
Mixture	IV-V Rks.	271	Formula "L"			SM No ears	7"
Fagotto	16	104	CCC 5", CC 3-1/2" Reg Zinc & SM B(1/8) Esch. Reeds #1-66 Double flue trebles 16' & 5-1/3 pitch notes #67-85				7"
Petite Trompette	8	68	3" Reg.			Zinc & SM BC(F) Esch. double flue trebles 8' & 4' pitch #55-61	7"
Clarinet	8	61	1-1/2" Reg.			Zinc & CM B(1/2) Esch	7"

SOLO ORGAN

Violin Cello	16	85	35/47/58/69	17	1/5	24 Zinc SM (heavy lgds) 61 ears Slotted	10"
Cello Celeste	16	85	41/53/58/69	17	1/5	24 Zinc SM (heavy lgds) 61 ears Slotted	10"
Doppelflote	8	61	Reg.			Wood	10"
Gamba	8	61	44	18	1/5	12 Zinc SM (heavy lgds) 49 ears Slotted	10"
Gamba Celeste	8	61	50, 60	4' E 60, 4' F 61	18 1/5	Slotted 12 Zinc SM (heavy lgds) 49 ears	10"
Orchestral Flute	4	61	4-5/16" x 3-5/8" O.D.	Har at 1'C	49	Wood & SM	10"

PIPE SCALE SHEET

Page 6

Organ No. 11739

Date: December 3, 1986

CALVARY CHURCH,

CHARLOTTE

NORTH CAROLINA

Customer

City

State

STOP PITCH PIPES SCALE HALVING MOUTH REMARKS W.P.

SOLO ORGAN (cont.)

Quintflote	2-2/3	61	60-3/4	19	1/5	SM 12 ears	Slotted	7"
Corno di Bassetto	16	61	large scale clarinet with funnel top					10"
English Horn	8	61	Skinner patt.		E(F) Esch.			10"
Orchestral Oboe	8	61	Inventory 11770 2-5/8" Sc.					10"
French Horn	8	61	6" Reg. French Horn Patt. French horn Esch.					15"
Tuba Mirabilis	8	61	5" Reg. B(1/2) Esch backed up 6 notes harm @ 2'C					18"

BOMBARDE ORGAN

Grand Diapason	8	61	38	17	1/4	12 Zinc SM 37 ears	Slotted	10"
Major Octave	4	61	52	17	1/4	SM 25 ears	Slotted	10"
Plein Jeu	IV-VI Rks.	270	Formula "M"		SM	No ears		10"
Buccina	16	61	CCC 6", CC 3-3/4" Reg. Zinc SM A(F) Esch.					15"
Trompette Harmonique	8	68	4-5/8" large tip Har. at 2'F# Zinc & SM AB(F) Esch. double flue trebles 3-1/5' & 2-2/3'					15"
Clairon Harmonique	4	68	3-3/4" Reg.		Zinc & SM A(F) Esch. break back to 8' pitch @ #43 54 reeds 7 double flues @ 8' & 2-2/3 pitch			15"
Mounted Cornet	V Rks.	185	(unenclosed) Formula "N"		SM	No ears		10"
Eclat	V-VIII Rks.	368	Formula "O"		SM	Ears to 2'C		10"

GOSPEL ORGAN

Tibia	8	90	(unit) Ex. Large Ped Bdn Sc.					10"
Kinura	8	85	(unit) 1-3/4" Kinura Moller Patt. E(F) Esch.					10"

TROMPETERIA ORGAN I

Cor de Gabriel	1-12-1/2 L							
	5-1/2" Sc.	#13=4-1/2"	large tip	Zinc SM	A(F) Esch.			
		(polished bronze resonators)						

~~17"~~
15"

PIPE SCALE SHEET

Page 7

Organ No. 11739

Date: December 3, 1986

CALVARY CHURCH,

CHARLOTTE

NORTH CAROLINA

Customer

City

State

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<u>ANCILLARY ORGAN I</u>							
Principal (Pedal)	16	12	33/43	17	1/4	Zinc 12 ears	7"
Principal	8	61	43	17	1/4	12 Zinc SM 20 ears Slotted	7"
Spitzflote	8	61	46-2/3	18	2/9	12 Zinc SM 25 ears	7"
Spitzflote Cel.	8	61	51/58-2/3	18	2/9	12 Zinc SM 25 ears	7"
Octave	4	61	56	18	1/4	SM 12 ears Slotted	7"
Super Octave	2	61	68	18	1/4	SM No ears	7"
Mixture	IV-V Rks.	231	Formula "p"			SM	7"

TROMPETERIA ORGAN II

Herald Trumpet	16	85	5" to 3-1/2" Sc. 1-12 1/2L #13=4" Reg. B(1/4) Esch. (polished bronze resonators) SM Tuner inserts				15"
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ANCILLARY ORGAN II

Montre (Pedal)	16	12	33/44	17	1/4	Zinc 12 ears	7"
Montre	8	61	44	17	1/4	12 Zinc SM 24 ears	7"
Bourdon	8	61	48/55	17	2/9	1-12 flat solid cap. #13 up L.T. Solid Top 24 Zinc SM 18 ears	7"
Prestant	4	61	58	18	1/4	SM 8 ears	7"
Gedackt (Loch)	4	61	56	21	2/9	SM Cap. 8 ears	7"
Doublette	2	61	69	18	1/4	SM No ears	7"
Fourniture	IV-V Rks.	231	Formula "q"			SM No ears	7"

PEDAL ORGAN

Principal	32	12	21/30	17	2/9-1/4	Zinc 12 ears	7"
Violone	32	12	28/38	17	2/9	Zinc 12 ears	7"
Grave Diapente	21-1/3	12				Open Wood	7"
	1-1/4"	stock					

PIPE SCALE SHEET

Page 8

Organ No. 11739

Date: December 3, 1986

CALVARY CHURCH,

CHARLOTTE

NORTH CAROLINA

Customer

City

State

STOP PITCH PIPES SCALE HALVING MOUTH REMARKS W.P.

PEDAL ORGAN (cont.)

Flute Ouverte	16	32	XLDO			Wood		7"
Principal	16	32	30	17	2/9-1/4	25 ears		7"
Violone	16	32	38	17	2/9	24 Zinc SM 32 ears		7"
Bourdon	16	44	Ex. L. Bdn Sc.			Wood		7"
Grossquinte	10-2/3	44	40/54	17	2/9	17 Zinc SM 25 ears		7"
Octave	8	32	40	17	2/9	12 Zinc SM 25 ears		7"
Hohlflote	8	32	48	21	1/5	12 Zinc SM 25 ears		7"
Spitzflote	8	44	45-3/4	18	1/5	12 Zinc SM 25 ears		7"
Choral Bass	4	32	55	18	2/9	SM 12 ears		7"
Spillflote	4	44	53/62	17	2/9	L.T.T. 12 Zinc SM 12 ears		7"
Rauschpfeife	V Rks.	160	Formula "R"			SM No ears		7"
Mixture	VII Rks.	224	Formula "S"			SM No ears		7"
Fagotto Cornet	64		Formula "T" derived					
Grand Cornet	32		Formula "U" derived					
Contre Bombarde	32	44	FL CCCC 12", CCC 9", CC 5" large tip			A(3/8)		15"
Contra Fagotto	32	12	CCCC 6", BBBB 3-3/4" #1-12			1/2L B(F) Esch. Zinc		7"
Trompette	8	44	4-1/2" Reg			Zinc & SM B(1/4) Esch.		15"
Rohr Schalmey	4	44	1-1/4" Reg			Zinc Brass & SM C(F) Esch.		7"

GREAT ORGAN

Jeu de Tierce II Rks. 122 Formula "A"

12	10	12th	62	17	2/9
17	12	17th	71	17	2/9

1-56 57-61

PIPE SCALE SHEET

Page 9

Organ No. 11739

Date: December 3, 1986

CALVARY CHURCH,

CHARLOTTE

NORTH CAROLINA

Customer

City

State

STOP

PITCH PIPES SCALE HALVING MOUTH REMARKS

W.P.

GREAT ORGAN (cont.)

Grande Fourniture IV 244 Formula "B" SM

15	12	8	5	1
19	15	12	8	5
22	19	15	12	8
26	22	19	15	12

1-12 13-24 25-36 37-49 50-61

Unison 43 Sc. @ 8' 17 1/4
Quint 45 Sc. @ 8' 17 1/4

Fourniture IV-VI 299 Formula "C" SM

19	15	12	8	8	5	5
22	19	15	12	12	8	8
26	22	19	15	15	12	12
29	26	22	19	19	15	15
	29	26	22	22	19	
		29	26			

1-5 6-12 13-17 18-22 23-44 45-50 51-61

Unison 44 Sc. @ 8' 18 1/4
Quint 44 Sc. @ 8' 18 1/4

Scharff IV-V Rks. 249 Formula "D" SM

22	19	19	15	12	8	1
26	22	22	19	15	12	8
29	26	26	22	19	15	12
33	29	29	26	22	19	15
33						

1-12 13-17 18-33 34-44 45-51 52-56 57-61

Unison 45 Sc. @ 8' 19 1/4
Quint 45 Sc. @ 8' 19 1/4

PIPE SCALE SHEET

Page 10

Organ No. 11739

Date: December 3, 1986

CALVARY CHURCH,

CHARLOTTE

NORTH CAROLINA

Customer

City

State

STOP

PITCH PIPES SCALE HALVING MOUTH REMARKS

W.P.

POSITIV ORGAN

Sesquialtera II Rks. 122 Formula "E" SM

12	10	12th	62	21	2/9
<u>17</u>	<u>12</u>	17th	72	21	2/9

1-56 57-61

Mixtur IV-V Rks. 283 Formula "F" SM

19	15	12	8	1	1	1
22	19	15	12	8	8	5
26	22	19	15	12	12	8
29	26	22	19	15	15	12
<u>29</u>	<u>26</u>	<u>22</u>	<u>19</u>	<u>15</u>	<u>12</u>	<u>8</u>
1-12	13-19	20-37	38-46	47-51	52-56	57-61

Unison 44 Sc. @ 8' 17 1/4

Quint 44 Sc. @ 8' 17 1/4

Zimbel III-V Rks. 243 Formula "G" SM

	22	19	15	8	8	1
29	26	22	19	12	12	5
33	29	26	22	15	15	8
36	33	29	26	19	19	12
	<u>22</u>	<u>19</u>	<u>15</u>	<u>8</u>	<u>8</u>	<u>1</u>
1-8	9-24	25-36	37-42	43-49	50-54	55-61

Unison 46 Sc. @ 8' 17 1/4

Quint 46 Sc. @ 8' 17 1/4

Jeu de Clochette III Rks. 168 Formula "H" SM

26(G)	26(G)	19(G)	19(G)	15	15	15
31(E)	28(B)	24(E)	21(B)	19	19	
<u>35(B)</u>	<u>31(E)</u>	<u>28(B)</u>	<u>24(E)</u>	<u>21(B)</u>	<u>19</u>	<u>15</u>
1-20	21-30	31-35	36-40	41-46	47-56	57-61

All pipes 47 Sc. @ 8' 17 1/4

PIPE SCALE SHEET

Page 11

Organ No. 11739

Date: December 3, 1986

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CHARLOTTE

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Customer

City

State

STOP

PITCH PIPES SCALE HALVING MOUTH REMARKS

W.P.

SWELL ORGAN

Plein Jeu III-V Rks. 244 Formula "J" SM

19	15	12	8	1	1
22	19	15	12	8	5
26	22	19	15	12	8
	26	22	19	15	12
				19	15
1-12	13-18	19-39	40-49	50-54	55-61

Unison 44 Sc. @ 8' 17 1/4

Quint 46 Sc. @ 8' 17 1/4

Cymbale III-V Rks. 237 Formula "K" SM

26	22	19	19	15	12	8	8
29	26	22	22	19	15	12	12
33	29	26	26	22	19	15	15
	33	29	29	26	22	19	
		33					
1-7	8-15	16-20	21-39	40-45	46-51	52-56	57-61

Unison 47 Sc. @ 8' 17 1/4

Quint 47 Sc. @ 8' 17 1/4

CHOIR ORGAN

Mixture IV-V Rks. 271 Formula "L" SM

19	15	12	8	8	8
22	19	15	12	12	12
26	22	19	15	15	15
29	26	22	19	19	
	29	26	22		
1-12	13-21	22-37	38-46	47-54	55-61

Unison 46 Sc. @ 8' 17 1/4

Quint 46 Sc. @ 8' 17 1/4

PIPE SCALE SHEET

Page 12

Organ No. 11739

Date: December 3, 1986

CALVARY CHURCH,

CHARLOTTE

NORTH CAROLINA

Customer

City

State

STOP PITCH PIPES SCALE HALVING MOUTH REMARKS

W.P.

BOMBARDE ORGAN

Plein Jeu Formula IV-VI Rks. 270 Formula "M" SM

15	15	12	12	8	8	8	8
22	19	15	15	12	12	12	15
26	22	19	19	15	15	15	
29	26	22	22	19	19		
	29	26	26	22			
		29					

1-24 25-30 31-37 38-44 45-51 52-56 57-58 59-61

Unison 41 Sc. @ 8" 17 1/4
Quint 44 Sc. @ 8' 17 1/4

Mounted Cornet V Rks. 185 Formula "N" SM

1	52 Sc.	18	1/4
8	62 Sc.	18	1/4
12	70 Sc.	18	2/9 #13-24, 1/4 25 up
15	74 Sc.	18	1/4
17	79 Sc.	18	2/9 #13-24, 1/4 25 up

13-49

Open SM

Eclat V-VIII Rks. 368 Formula "O" SM

10(E)	5	3(E)	1	1	1	1	1	1
12	10(E)	5	3(E)	3(E)	3(E)	3(E)	3(E)	3(E)
19	12	10(E)	5	5	5	5	5	5
21(B)	19	12	10(E)	10(E)	10(E)	10(E)	10(E)	
24(E)	21(B)	19	12	12	12	12		
	24(E)	21(B)	14(B)	14(B)	14(B)			
		24(E)	19	19				
			21(B)					

1-12 13-30 31-36 37-48 49-50 51-53 54-55 56-57 58-61

Unison 42 Sc. @ 8' 17 1/4
Quint 44 Sc. @ 8' 17 1/4
Tierce 45 Sc. @ 8' 17 2/9
Seventh 47 Sc. @ 8' 17 2/9

PIPE SCALE SHEET

Page 13

Organ No. 11739

Date: December 3, 1986

CALVARY CHURCH,

CHARLOTTE

NORTH CAROLINA

Customer

City

State

STOP

PITCH PIPES SCALE HALVING MOUTH REMARKS

W.P.

ANCILLARY ORGAN I

Mixture IV-V Rks. 250 Formula "P" SM

19	15	15	12	1	1	1
22	19	19	15	8	8	8
26	22	22	19	12	12	12
29	26	26	22	15	15	
<u>29</u>				<u>19</u>		

1-12 13-18 19-30 31-42 43-49 50-54 55-61

Unison 45 Sc. @ 8' 17 1/4

Quint 45 Sc. @ 8' 17 1/4

ANCILLARY ORGAN II

Fourniture IV-V Rks. 231 Formula "Q" SM

22	19	19	15	12	12	12
26	22	22	19	15	15	15
29	26	26	22	19	19	
33	29	29	26	22		
	33					

1-12 13-18 19-30 31-42 43-49 50-54 55-61

Unison 46 Sc. @ 8' 17 1/4

Quint 46 Sc. @ 8' 17 1/4

PEDAL ORGAN

Rauschpfeife V Rks. 160 Formula "R" SM

12	Unison 43 Sc. @ 8' 17 1/4
15	Quint 46 Sc. @ 8' 17 1/4
19	
22	
26	

1-32

PIPE SCALE SHEET

Page 14

Organ No. 11739

Date: December 3, 1986

CALVARY CHURCH,

CHARLOTTE

NORTH CAROLINA

Customer

City

State

STOP

PITCH PIPES SCALE HALVING MOUTH REMARKS

W.P.

PEDAL (cont.)

Mixture VII Rks. 224 Formula "S" SM

19	15	Unison	46 Sc. @ 8'	17	1/4
22	19	Quint	49 Sc. @ 8'	17	1/4
26	22	Tierce	51 Sc. @ 8'	17	2/9
29	26				
31	29				
33	31				
<u>36</u>	<u>33</u>				

1-25 26-32

64 Fagotto Cornet V derived Formula "T"

1. Notes #1 - 12 plays Choir 16' Gemshorn notes #5 - 16
2. Notes #1 - 12 plays Choir 16' Gemshorn notes #12 - 23
3. Notes #1 - 12 plays Choir 16' Gemshorn notes #15 - 26
4. Notes #1 - 12 plays Choir 16' Gemshorn notes #24 - 35
5. Notes #13 - 32 plays Choir 32' Contra Fagotto notes #1 - 20

32 Grand Cornet IV derived Formula "U"

1. Notes #1 - 22 plays Ped. 16' Bourdon notes #11 - 32
2. Notes #1 - 32 plays Ped. 8' Spitzflote notes #5 - 36
3. Notes #1 - 32 plays Ped. 8' Spitzflote notes #11 - 42
4. Notes #1 - 30 plays Ped. 8' Spitzflote notes #15 - 44

PIPE SCALE SHEET

Page 15

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PITCH PIPES SCALE HALVING MOUTH REMARKS

W.P.

	<u>Voices</u>	<u>Mixtures</u>	<u>Total</u>
Great	23	18	37
Positiv	19	14	29
Swell	23	10	32
Choir	17	5	22
Solo	12	--	12
Bombarde	8	19	24
Gospel	2	--	2
Anc. I	7	5	11
Anc. II	7	5	11
Ped.	<u>15</u>	<u>12</u>	<u>25</u>
	133	88 43% of total	205

PITCH: A-440 @ 70^o

COMPLETION: August 15, 1988

COPIES TO: Ellis Barnhart
 Angerstein (2) Bowers
 Gillett Chaney S. (4)
 Kreglo Erecting Rm. (3)
 Lawless Rogers (4)
 Weaver Contract
 Engr. Dept. General File (6)

DLA/jap
 06/12/89