Summary of Results for 2020 AGC of America-Autodesk Workforce Survey		2019	6/9-17	2020		Reg	jion		Н	lighway	Utility		Re	venue Siz	ze		Always
		survey	survey	survey	North-	Mid-	Caudh	\\/aat		& trans-	Infra-	Federal		\$50.1M-	Over	Always	Open
Total number of responses (number varies by question):		<u>total</u> 1935	<u>total</u> 635	<u>total</u> 2005	<u>east</u> 159	<u>west</u> 386	South 505	West 525	Building p 1118	ortation 507	structure 468	<u>& heavy</u> 465	or less 1041	\$500M 443	\$500M 96	<u>Union</u> 430	<u>Shop</u> 764
Q1. How has your firm's headcount changed as a result of the pandemic? (mark all that apply)	No change <u>Furloughed or terminated employees:</u> Furloughed employees Terminated employees Recalled furloughed/terminated employees Added employees	1,700	46% 27% 26%	50% 29% 18% 19% 11% 23%	38% 28% 16% 26% 25%	48% 20% 19% 11% 27%	54% 12% 18% 7% 23%	48% 18% 18% 14% 24%	46% 20% 21% 13% 24%	54% 12% 12% 10% 28%	51% 15% 17% 11% 27%	18% 18% 15% 30%	52%	44% 0.28038 22% 25% 18% 26%	46% 0.0608 25% 13% 22% 30%	46% 26% 21% 18% 20%	53% 13% 17% 9% 26%
Q2. By what percentage has your firm's headcount changed in the past 12 months?	No change Decrease: -1% to -10% -11% to -25% More than -25% Increase: 1 to 10% More than 10%		41% 33% 21% 8% 4% 26% 20% 6%	32% 41% 26% 11% 4% 27% 22% 5%	27% 46% 27% 13% 6% 28% 22% 6%	29% 42% 25% 12% 4% 29% 24% 4%	36% 37% 26% 7% 4% 27% 22% 5%	28% 41% 24% 13% 4% 31% 25% 6%	29% 43% 26% 13% 4% 28% 23% 5%	32% 33% 23% 9% 2% 35% 29% 6%	30% 37% 23% 11% 3% 33% 27% 5%	25% 41% 27% 11% 3% 34% 27% 8%	33% 40% 23% 12% 5% 28% 22% 6%	26% 42% 31% 9% 2% 32% 27% 5%	28% 40% 28% 9% 2% 31% 28% 3%	27% 50% 29% 13% 7% 23% 18% 5%	33% 36% 24% 10% 2% 31% 26% 5%
Q3. Did you furlough employees and then recall any? (mark all that apply)	No, did not furlough any employees Have not tried to recall furloughed employees Tried to recall furloughed employees % of firms that recalled employees reported: All furloughed employees reported when recalled Some recalled employees have refused to work: Some cited preference for unemployment benefits Some cited virus concerns or family responsibilities Some cited other reasons (or unknown)		38% 41% 24% 4%	68% 7% 25% 56% 44% 36% 35% 15%	44% 6% 50% 65% 35% 31% 29% 13%	67% 6% 27% 62% 38% 38% 31% 12%	78% 7% 15% 40% 60% 48% 44% 23%	65% 8% 27% 57% <u>43%</u> 33% 35% 15%	65% 8% 27% 58% 42% 34% 35% 15%	75% 3% 22% 55% 45% 41% 30% 14%	73% 4% 24% 58% 42% 41% 37% 17%	67% 5% 28% 58% 42% 35% 36% 15%	68% 7% 25% 57% 43% 37% 29% 14%	66% 6% 28% 56% 44% 39% 42% 17%	70% 10% 20% 58% 42% 21% 47% 11%	55% 7% 38% 59% 41% 39% 39% 14%	74% 6% 21% 55% 45% 34% 32% 17%
Q4. How would you describe your current situation in filling salaried positions?	Having a hard time filling some or all salaried positions Having no difficulty filling any salaried positions We have no openings for salaried positons	57% 12% 32%		28% 16% 56%	30% 11% 58%	27% 15% 58%	26% 16% 57%	28% 16% 55%	27% 17% 56%	32% 14% 54%	31% 16% 53%	33% 15% 52%	23% 11% 66%	38% 23% 39%	30% 34% 35%	22% 14% 63%	28% 16% 56%
Q5. How would you describe your current situation in filling hourly craft positions?	Having a hard time filling some/all hourly craft positions Having no difficulty filling any hourly craft positions We have no openings for hourly craft positons	80% 11% 9%		52% 20% 28%	48% 28% 24%	55% 22% 23%	54% 17% 29%	53% 19% 28%	50% 22% 28%	65% 18% 18%	60% 20% 20%	61% 21% 19%	54% 17% 29%	56% 23% 21%	39% 37% 24%	43% 31% 26%	63% 15% 22%
Q6. How many unfilled salaried positions did you have on June 30, 2020?	0 1 2-5 More than 5			58% 15% 21% 6%	63% 14% 19% 4%	61% 13% 22% 4%	58% 15% 20% 7%	56% 18% 21% 5%	58% 16% 21% 6%	57% 16% 22% 6%	55% 15% 22% 7%	56% 15% 23% 6%	66% 17% 15% 3%	45% 15% 34% 5%	40% 4% 25% 31%	65% 12% 19% 4%	60% 17% 19% 4%
Q7. How many unfilled hourly craft positions did you have on June 30, 2020?	0 1 2-5 More than 5			40% 5% 32% 23%	48% 3% 25% 24%	39% 3% 33% 24%	37% 5% 32% 26%	36% 7% 35% 21%	42% 4% 31% 22%	27% 5% 35% 33%	31% 4% 35% 30%	31% 4% 32% 32%	39% 7% 38% 16%	36% 2% 25% 37%	46% 3% 9% 43%	52% 3% 24% 21%	28% 6% 40% 26%

Summary of Results for 2020 AGC o	ry of Results for 2020 AGC of America-Autodesk Workforce Survey		6/9-17	2020		Reg	ion		Н	ighway	Utility		Re	venue Siz		Always	
		survey	survey	survey	North-	rth- Mid-		8	k trans-	Infra-	Federal	\$50M	\$50.1M-	Over	Always	Open	
		total	total	total	<u>east</u>	west	South	West		ortation	structure	& heavy	or less	\$500M	\$500M	<u>Union</u>	Shop
Total number of responses (number varies by question):		1935	635	2005	159	386	505	525		507	468	465	1041	443	96	430	764
Q8. Has your firm added or increased	Have not tried to hire			19%	17%	17%	20%	18%	19%	13%	13%	13%	21%	11%	22%	19%	15%
use of the following to provide workers	Applied for employee-based visas (e.g., H-1B, H-2B)	7%		2%	3%	1%	2%	2%	2%	2%	2%	3%	1%	3%	4%	2%	2%
in the last 6 months? (mark all that	Engaged with career-building education program	50%		21%	19%	31%	21%	18%	23%	24%	28%	26%	16%	34%	33%	17%	26%
apply)	Engaged with gov. workforce or unemployment agency	29%		12%	11%	13%	14%	11%	11%	16%	7%	14%	12%	14%	13%	6%	18%
	Executive and non-craft worker search firm or PEO	30%		14%	20%	16%	13%	15%	16%	15%	18%	19%	8%	26%	30%	15%	14%
	Staffing firm (craft)	27%		16%	3%	14%	24%	14%	17%	17%	17%	18%	17%	18%	10%	6%	24%
	Software to distribute job postings and manage applicants	27%		14%	11%	16%	16%	13%	14%	17%	18%	17%	13%	16%	19%	9%	18%
	Sub- or specialty contractors	26%		11%	13%	9%	14%	11%	14%	11%	12%	9%	12%	12%	13%	4%	17%
	Unions	21%		20%	36%	34%	5%	20%	20%	25%	28%	30%	17%	26%	25%	55%	0.4%
	Added Instagram Live sessions and other online strategies			4%	1%	4%	5%	5%	5%	7%	6%	7%	4%	6%	4%	3%	5%
	No changes	22%		27%	22%	21%	29%	27%	26%	23%	21%	23%	25%	26%	31%	20%	26%
Q9. Has your firm made changes in	Have not tried to hire			18%	16%	17%	17%	16%	17%	10%	12%	10%	19%	11%	13%	20%	13%
hiring, training or scheduling in the last	Added Lean construction personnel			2%	2%	3%	3%	2%	3%	2%	3%	3%	2%	2%	9%	2%	2%
6 months? (mark all that apply)	Trained personnel in Lean construction methods			6%	8%	8%	6%	4%	8%	4%	7%	5%	4%	10%	15%	7%	5%
	Augmented/mixed/virtual reality training devices	8%		13%	13%	16%	13%	11%	15%	12%	15%	15%	8%	19%	36%	14%	12%
	Increased use of learning program with a strong online or video																
	component (e.g., classes using Zoom or Teams)			21%	27%	25%	16%	20%	24%	20%	24%	26%	13%	33%	52%	25%	18%
	Lowered hiring standards (e.g., education, training, employment or																
	arrest record)			9%	9%	9%	8%	11%	8%	14%	11%	12%	11%	7%	5%	6%	12%
	Raised hiring standards	27%		7%	4%	6%	7%	8%	7%	6%	6%	6%	6%	7%	13%	4%	7%
	Initiated/increased spending on training/prof. development	46%		18%	23%	16%	17%	21%	19%	21%	24%	23%	16%	23%	24%	13%	22%
	Decreased/eliminated spending on training/prof. devel.			3%	3%	5%	2%	3%	4%	3%	3%	4%	2%	5%	6%	4%	3%
	Initiated or increased online or mobile training options			19%	22%	23%	18%	21%	21%	22%	26%	24%	14%	31%	43%	21%	20%
	Overtime	31%		14%	18%	15%	13%	16%	15%	19%	19%	19%	16%	15%	9%	12%	19%
	No changes	32%		34%	28%	32%	39%	32%	33%	33%	31%	32%	37%	30%	15%	32%	36%
Q10. If your firm is having trouble	Architects	24%		2%	2%	1%	2%	1%	2%	0%	0%	0%	2%	1%	4%	0%	2%
filling salaried positions, please	BIM personnel	27%		8%	8%	9%	5%	8%	9%	5%	8%	6%	4%	10%	14%	12%	5%
indicate all the position types you are	Engineers	37%		20%	22%	30%	11%	22%	18%	31%	29%	33%	16%	26%	30%	27%	13%
having trouble filling (mark all that	Environmental compliance professionals	35%		2%	0%	2%	3%	2%	2%	4%	3%	5%	3%	2%	0%	1%	2%
apply) [2019: % harder to fill than one	IT personnel	13%		4%	3%	6%	3%	5%	5%	5%	7%	5%	3%	5%	6%	4%	2%
year ago]	Lean construction professionals			4%	3%	4%	5%	3%	4%	4%	3%	2%	5%	2%	4%	4%	4%
	Project managers/supervisors	48%		81%	85%	78%	82%	83%	81%	79%	82%	79%	82%	81%	80%	83%	86%
	Quality control personnel	31%		15%	3%	13%	16%	18%	14%	16%	15%	19%	13%	14%	26%	12%	13%
	Safety personnel	21%		18%	17%	17%	22%	16%	17%	22%	22%	25%	13%	22%	32%	17%	18%
	Software/database personnel	16%		4%	7%	3%	3%	5%	4%	4%	6%	6%	5%	3%	6%	5%	3%

ummary of Results for 2020 AGC of America-Autodesk Workforce Survey		2019	6/9-17	2020		Reg	ion		Highway Utility				Re	venue Siz	Always		
		survey	survey	survey	North-	Mid-				& trans-	Infra-	Federal	\$50M	\$50.1M-	Over	Always	Open
		total	total	total	<u>east</u>	west	South 8 1	West		<u>ortation</u>	structure	& heavy	or less	\$500M	\$500M	<u>Union</u>	Shop
Total number of responses (number va	3 1 7	1935	635	2005	159	386	505	525	1118	507	468	465	1041	443	96	430	764
Q11. If your firm is having trouble	Bricklayers	62%		5%	8%	9%	4%	2%	7%	3%	3%	4%	5%	4%	7%	9%	3%
filling hourly craft positions, please	Carpenters	65%		35%	48%	43%	33%	30%	43%	24%	26%	27%	30%	49%	44%	35%	34%
indicate all the position types you are	Cement masons	65% 69%		12%	10%	21%	8%	10%	13%	14%	14%	14%	11%	15%	22%	20%	10%
having trouble filling (mark all that apply) [2019: % harder to fill than one	Concrete workers			23%	17%	33%	24%	15%	23%	27%	25%	25%	19%	29%	36%	17%	25%
	Electricians	56%		9%	14%	6%	8%	9%	10%	5%	10%	8%	7%	11%	18%	8%	9%
year ago]	Equipment operators-cranes, heavy equipment	65% 58%		29%	26%	34%	29%	28%	18%	58%	48%	48%	26%	35%	47%	25%	32%
	Installers-drywall	62%		5%	6%	6%	6%	3%	8%	1%	2%	2%	5%	5%	9%	7%	5%
	Instalers-other Iron workers	64%		7%	8%	4%	9%	7%	9%	2%	3%	4%	8%	3%	7%	5%	7%
		58%		10%	6%	15%	8%	8%	12%	7%	9%	10%	9%	10%	13%	11%	10%
	Laborers	57%		43%	56%	45%	44%	37%	41%	50%	46%	4%	43%	44%	33%	37%	45%
	Mechanics Allowighto	57%		12%	8%	9%	15%	12%	8%	19%	16%	17%	10%	13%	20%	7%	13%
	Milwrights			2%	1%	4%	2%	1%	2%	1%	3%	2%	1%	3%	9%	1%	2%
	Painters Dispositions (update)	49% 60%		5%	2%	4%	6%	4%	6%	2%	2%	2%	5%	3%	7%	4%	4%
	Pipefitters/welders	68%		6%	2%	4%	7%	7%	6%	4%	8%	7%	4%	7%	18%	6%	6%
	Pipelayers			6%	3%	9%	9%	9%	5%	13%	21%	14%	8%	11%	9%	5%	12%
	Plumbers	64%		9%	2%	4%	9%	6%	8%	2%	4%	4%	6%	7%	9%	4%	7%
	Roofers	57%		3%	1%	3%	3%	4%	4%	1%	2%	1%	4%	2%	7%	2%	4%
	Sheet metal workers	63%		5%	1%	5%	7%	6%	7%	1%	2%	3%	5%	5%	4%	5%	6%
	Traffic control personnel	50%		4%	6%	3%	6%	2%	2%	9%	6%	6%	3%	6%	2%	3%	5%
	Truck drivers	59%		25%	30%	23%	23%	26%	15%	45%	35%	36%	24%	26%	22%	15%	28%
Q12. Has your firm adjusted pay	Increased base pay rates	66%		38%	28%	38%	40%	42%	37%	46%	42%	42%	40%	38%	32%	28%	49%
and/or benefits for hourly craft or	Provided incentives/bonuses	29%		17%	13%	19%	18%	16%	17%	21%	21%	20%	18%	17%	12%	13%	21%
salaried personnel in the last 6	Increased our portion of benefit contributions and/or improved employee				•												ľ
months? (mark all that apply) [2019:	benefits	25%		8%	6%	8%	7%	9%	7%	10%	9%	10%	8%	8%	8%	4%	10%
for hourly craft workers in the last year]	Reduced base pay rates			3%	4%	5%	2%	2%	4%	2%	4%	3%	2%	5%	4%	4%	2%
	Reduced our portion of benefit contributions and/or scaled back				•												
	employee benefits			2%	1%	2%	2%	1%	2%	2%	2%	2%	2%	1%	2%	2%	1%
	No changes	18%		52%	61%	47%	49%	52%	51%	45%	47%	47%	50%	52%	58%	61%	42%
Q13. What technologies (hardware or	Adopted or increased Lean construction methods			6%	4%	10%	7%	4%	8%	4%	7%	6%	4%	11%	14%	8%	6%
o ,	Bidding			9%	10%	10%	9%	10%	10%	9%	10%	9%	11%	8%	4%	10%	10%
to help alleviate any labor shortages	Cost management/ERP			7%	9%	7%	6%	7%	7%	7%	8%	8%	5%	10%	10%	9%	6%
your firm has experienced? (mark all	Document/file management			10%	9%	11%	10%	10%	12%	9%	12%	11%	9%	14%	8%	11%	9%
that apply)	Estimating			13%	13%	16%	12%	14%	15%	13%	16%	15%	14%	14%	12%	15%	13%
ты арргуу	Project management	i		16%	22%	17%	14%	17%	18%	13%	18%	16%	16%	19%	18%	18%	16%
	Field collaboration			13%	11%	17%	12%	12%	14%	12%	17%	16%	10%	18%	19%	15%	12%
	Reality capture	1 1		2%	11%	4%	2%	12 %	2%	1%	2%	2%	10%	4%	7%	2%	2%
	Site safety			10%	13%	9%	12%	8%	10%	12%	12%	12%	7%	15%	16%	10%	10%
	Virtual/augmented/mixed reality	1 1		6%	3%	9% 8%	5%	6%	7%	4%	6%	12 <i>%</i> 5%	3%	9%	20%	6%	5%
	Workforce management	1 1		10%	3% 7%	13%	11%	9%	11%	10%	15%	12%	3% 9%	14%	14%	10%	11%
	No changes	1 1		60%	63%	56%	63%	60%	57%	62%	55%	57%	64%	54%	47%	57%	61%
	ino onunges	\vdash		0070	0370	3070	0370	0070	3170	UZ /0	3370	J 1 70	UT /0	J 7 /0	7770	3170	0170

Summary of Results for 2020 AGC of America-Autodesk Workforce Survey		2019	6/9-17	2020 Region			Highway Utility				Re	evenue Siz	Always				
		survey	survey	survey	North-	Mid-				& trans-	Infra-		\$50M	\$50.1M-	Over	Always	Open
		total	total	total	<u>east</u>	west	South	West	Building p	_			<u>or less</u>	\$500M	\$500M	<u>Union</u>	Shop
Total number of responses (number varies by question):		1935	635	2005	159	386	505	525	1118	507	468	465	1041	443	96	430	764
Q14. What impact, if any, has the	No impact	19%		12%	12%	12%	12%	10%	8%	17%	11%	11%	12%	10%	10%	10%	10%
i	We have put longer completion times into bids or contracts	29%		22%	24%	17%	22%	26%	25%	16%	24%	20%	23%	21%	21%	20%	25%
(mark all that apply) [2019: What impact if your firm is experiencing	Projects have taken longer than we anticipated	44%		44%	45%	41%	43%	49%	49%	37%	44%	45%	44%	48%	41%	43%	46%
	We have put higher prices into our bids or contracts	44%		18%	18%	16% 32%	16% 27%	21% 37%	20%	18% 35%	21%	20%	18%	19%	18%	18%	18% 35%
staffing challenges]	Costs have been higher than we anticipated Projects have taken less time or cost less than anticipated	43% 3%		32% 1%	39% 0%	32% 1%	2%	1%	35% 1%	35% 2%	38% 1%	38% 2%	33% 1%	35% 2%	28% 2%	36% 2%	35% 1%
	We have won additional projects/add-ons to current projects	3%	21%	12%	13%	8%	14%	12%	13%	2% 9%	12%	14%	11%	13%	20%	2% 9%	13%
	Projects under way have been halted		44%	33%	36%	37%	29%	35%	38%	29%	35%	35%	31%	41%	32%	41%	29%
	Scheduled projects have been postponed or canceled		32%	60%	58%	62%	57%	64%	66%	53%	62%	60%	56%	71%	69%	66%	59%
		4.07	JZ /0	70/													
Q15. What impact, if any, has the	More reportable injuries and illnesses	16%		/%	6%	7%	7%	9%	6%	1%	10%	12%	6%	11%	9%	7%	8%
pandemic had on your firm's safety	More jobsite hazards (physical and/or behavioral) identified in inspection	15%		00/	.0/	70/	100/	110/	100/	00/	110/	110/	00/	110/	100/	100/	100/
and health program or performance?	reports			9%	6% 10/	7%	10%	11%	10%	9%	11%	11%	9%	11%	13%	12% 3%	10%
	More workers compensation claims	11% 72%		2%	1%	2%	2%	2% 71%	1% 74%	2% 72%	1% 70%	1%	1% 80%	2% 66%	3% 57%	3% 72%	2% 74%
	No change	72% 5%		75% 5%	78% 4%	76% 7%	75% 4%	71% 4%	74% 6%	72% 5%	70% 7%	66% 7%		6%		72% 5%	74% 4%
	Fewer reportable injuries and illnesses Fewer jobsite hazards (physical and/or behavioral) identified in	5%		5%	470	170	470	470	0%	5%	170	170	3%	0%	15%	3%	470
	inspection reports	2%		1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	2%	2%	1%	1%
	Fewer workers compensation claims	4%		1%	4%	1%	1%	2%	2%	2%	1%	2%	1%	2%	1%	2%	1%
047 150	No additional legislation is needed	.,,	17%	11%	8%	10%	12%	12%	12%	6%	7%	7%	12%	11%	6%	9%	10%
Q17. If Congress takes further action to address the economic fallout from	Larger federal investment in all forms of public infrastructure and		1 / 70	1170	0 70	10%	1270	1270	1270	070	1 70	1 70	1270	1170	076	970	1070
the coronavirus, which of these	facilities		34%	55%	62%	59%	49%	56%	52%	46%	75%	75%	52%	63%	57%	61%	53%
measures would be helpful to your	Multi-year surface transportation reauthorization with higher funding			3370	0270	3770	4770	3070	3270	4070	7370	7370	3270	0370	3770	0170	3370
business? (mark all that apply)	levels		23%	25%	34%	29%	20%	25%	17%	60%	40%	46%	22%	34%	29%	29%	23%
	Address funding shortfalls for multi-employer pension plans		10%	13%	19%	23%	5%	11%	14%	14%	17%	17%	11%	18%	15%	32%	3%
	Address federal unemployment benefits that serve as artificial barriers to																
	returning people to work			41%	41%	43%	44%	40%	42%	42%	46%	45%	43%	40%	37%	41%	44%
	Funding for direct federal and federal-aid projects to compensate																
	employers during project delays/shutdowns due to coronavirus			24%	28%	25%	19%	26%	24%	28%	30%	33%	22%	28%	23%	29%	2%
	Funding for state DOTs to help prevent project delays as a result of lost																
	revenue from the pandemic		29%	29%	35%	32%	26%	28%	23%	57%	42%	48%	26%	35%	37%	33%	28%
	More funding for and flexibility in using loan programs to maintain cash																
	flows		22%	30%	30%	27%	29%	33%	32%	24%	29%	31%	34%	22%	22%	30%	30%
	Enact a pandemic risk insurance/covid-19 business and employee		000/														
	continuity and recovery fund		28%	25%	25%	25%	26%	23%	28%	18%	23%	23%	26%	23%	24%	27%	25%
	Enact a "safe harbor" set of protocols to provide firms with protection		F70/														
	from tort or employment liability for failing to prevent a covid-19 infection		57%	53%	53%	55%	55%	52%	56%	51%	59%	55%	51%	58%	51%	58%	56%
	Volume already matches or exceeds year-ago level		26%	29%	24%	30%	30%	31%	26%	38%	31%	32%	29%	30%	26%	23%	33%
volume of business will return to its	1-6 months		26%	13%	13%	10%	16%	12%	14%	7%	11%	8%	14%	13%	6%	14%	13%
normal level relative to one year	More than 6 months (or never)		30%	38%	45%	42%	35%	34%	41%	33%	39%	39%	35%	40%	52%	44%	33%
earlier?	Don't know		17%	20%	18%	18%	19%	23%	19%	21%		21%	22%	17%	16%	19%	20%
O10. How do expect your firm/o						36%	39%	40%			37%		39%			39%	37%
Q19. How do expect your firm's	No net change		400:	38%	32%				36%	38%		32%		35%	35%		
months? (mark all that apply) [2010:	We expect to furlough employees temporarily		12%	11%	18%	13%	7%	11%	11%	12%		14%	12%	10%	6%	13%	11%
expect to add craft personnell	We expect to terminate employees to reduce headcount			15%	20%	15%	13%	15%	17%	15%		16%	13%	20%	19%	22%	12%
exposi to add stait personnell	We expect to recall furloughed/terminated employees		17%	5%	8%	6%	3%	6%	6%	3%		5%	5%	5%	6%	9%	4%
	We expect to add new employees	72%		38%	34%	38%	42%	35%	38%	37%	38%	39%	38%	37%	44%	27%	42%