Construction Industry Snapshot (base)

Issued: September 2019 (based on August 2019 Starts Stats)

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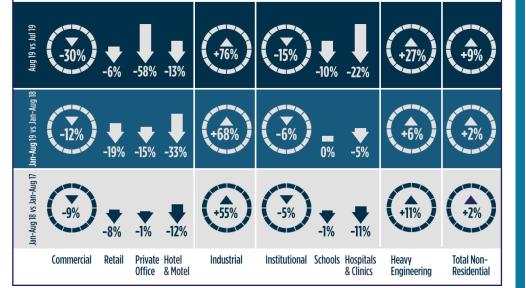
Industrial and Civil Work Raised August Nonresidential Starts +9% vs July

ConstructConnect announced today that the latest month's volume of construction starts, excluding residential work, was \$50.2 billion, +8.9% compared with July's upwardly revised figure of \$46.1 billion (originally reported as \$45.4 billion).

While July featured a wealth of mega project starts (four for more than \$1 billion each, totaling \$8.7 billion), August's record was even better (five such projects adding to \$18.7 billion).



Marketing Analytics Team



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August's Notable Points

- The big jump in total nonresidential starts of +34.4% in August 2019 versus August 2018 (y/y) was a matter of impressive strength in industrial (+155.8%) and heavy engineering (+64.9%) that overwhelmed weakness in institutional (-13.2%) and commercial (-9.6%).
- The pattern also repeated with respect to year-to-date (ytd) total nonresidential starts. In August, the +2.2% figure overall was mainly thanks to industrial (+68.1%), with a minor assist from civil (+5.7%), as there was no help coming from commercial (-11.7%) or institutional (-5.9%).

3825 Edwards Road, Ste. 800 Cincinnati, OH 45209 P. 1-800-364-2059 www.constructconnect.com/blog

For more information or media inquiries please contact our Public Relations Team at: PR@ConstructConnect.com





Industrial and Civil Work Raised August Nonresidential Starts +9% vs July

Another Outstanding Mega Project Month

ConstructConnect announced today that the latest month's volume of construction starts, excluding residential work, was \$50.2 billion (*green shaded box*, *Table 5*, *page 8*), +8.9% compared with July's upwardly revised figure of \$46.1 billion (originally reported as \$45.4 billion). While July featured a wealth of mega project starts (four for more than \$1 billion each, totaling \$8.7 billion), August's record was even better (five such projects adding to \$18.7 billion). August's largest groundbreaking was a \$10 billion ExxonMobil ethane cracker in Texas.

On a year-over-year basis, nonresidential starts in August 2019 compared with August 2018 were ahead by more than one-third, +34.4%. With respect to year to date, nonresidential starts so far in 2019 have been +2.2% compared with the same January-to-August time frame of last year.

'SMOOTHED' SERIES

Since large project groundbreakings can often introduce notable volatility in the monthly 'starts' numbers and their period-to-period percentage changes, it is informative to also study 'smoothed' series, such as are set out in the middle columns of Table 5 on page 8.

On a 12-month moving average basis, August 2019's total nonresidential starts were +0.5% versus the previous 12 months (i.e., September-2018-to-August-2019 vs September-2017-to-August-2018). Type-of-structure sub-category starts on the same 12-month-over-prior-12-month terms in August 2019 were: commercial, -8.8%; industrial, +16.2%; institutional, -0.3%; and heavy engineering/civil, +5.1%. Industrial and civil work have provided the spark for total starts.

'Smoothed' grand total starts, which include residential activity, were -3.6% in August. Residential activity has been -10.1% on a 12-month moving average basis, with multi-family starts (-17.2%) leading the descent more precipitously than the single-family (-6.8%) market.

'Starts' as a Leading Indicator

The 'starts' figures appearing in this report's tables and graphs are not seasonally adjusted (NSA). Nor are they altered for inflation. They are expressed in what are termed 'current' as opposed to 'constant' dollars.

'Nonresidential building' plus 'engineering/civil' work accounts for a larger share of total construction than residential activity. The former's combined proportion of total put-in-place construction in the Census Bureau's latest report, for July, was 59%; the latter's was 41%.

ConstructConnect's construction starts are leading indicators for the Census Bureau's capital investment or put-in-place series. Also, the reporting period for starts (August 2019) is one month ahead of the reporting period for the investment series (July 2019).

Construction Overview

The jobs count in the U.S. construction sector in August climbed by the same amount as the monthly average increase to date in 2019, +14,000. 2019's monthly average gain, however, is off by more than half (-53.3%) versus 2018's January-to-August average of +31,000. The NSA unemployment rate among 'hard hat' workers tightened a shade in the latest month to 3.6% from 3.8% in July, but it wasn't quite as low as in August 2018, 3.4%. Construction's unemployment rate is still below the headline all-jobs rates of 3.7% SA and 3.8% NSA. As for year-over-year employment change, construction (+2.4%) is still outperforming every other major sector except health care and social assistance (+2.6%) and is setting a pace well ahead of all-jobs (+1.4%).

August's year-over-year staffing changes in sub-segments of the economy with close ties to construction were: 'machinery and equipment rental', +11.8%; 'oil and gas extraction', +9.0%; 'real estate sales activity', +3.1%; 'architectural

TABLE 1: VALUE OF UNITED STATES CONSTRUCTION STARTS — AUGUST 2019 (ConstructConnect®)

	Jan-Aug 2019	% Change Jan-Aug 19 vs	% Change Aug 19 vs	% Change Aug 19 vs	
	(\$ billions)	Jan-Aug 18	Aug 18	Jul 19	
Hotel/Motel	12.175	-32.9%	-27.2%	-13.1%	
Retail/Shopping	10.622	-19.2%	-29.3%	-6.4%	
Parking Garage	2.092	15.6%	-8.7%	-61.2%	
Amusement	4.398	-15.1%	2.9%	-57.2%	
Private Office	18.246	-14.6%	-31.6%	-58.3%	
Government Office	7.774	12.6%	1.6%	-26.7%	
Laboratory	1.333	-35.2%	56.1%	122.3%	
Warehouse	13.127	-11.1%	-3.9%	58.2%	
Miscellaneous Commercial *	12.727	27.2%	136.3%	-59.1%	
COMMERCIAL (big subset)	82.494	-11.7%	-9.6%	-30.2%	
INDUSTRIAL (Manufacturing)	43.400	68.1%	155.8%	75.6%	
Religious	1.086	-25.9%	-26.0%	54.6%	
Hospital/Clinic	10.842	-5.0%	21.8%	-22.4%	
Nursing/Assisted Living	5.706	-18.7%	-52.2%	-65.2%	
Library/Museum	2.313	34.1%	-50.5%	-81.3%	
Fire/Police/Courthouse/Prison	4.232	-19.4%	-26.4%	28.1%	
Military	2.618	-7.2%	-14.8%	15.3%	
School/College	53.064	0.4%	-12.7%	-9.9%	
Miscellaneous Medical	5.018	-34.0%	-32.6%	12.6%	
INSTITUTIONAL	84.878	-5.9%	-13.2%	-15.4%	
Miscellaneous Non-residential	4.246	-15.3%	7.3%	0.9%	
NONRESIDENTIAL BUILDING	215.018	0.3%	19.8%	-0.5%	
Airport	4.807	-2.1%	5.3%	-24.5%	
Road/Highway	46.103	-1.9%	-18.3%	-29.4%	
Bridge	18.113	13.4%	52.4%	4.3%	
Dam/Marine	5.565	48.7%	-27.0%	-16.8%	
Water/Sewage	21.155	0.4%	7.0%	-27.3%	
Miscellaneous Civil (power, pipelines, etc.)	26.117	15.7%	1020.7%	489.6%	
HEAVY ENGINEERING (Civil)	121.859	5.7%	64.9%	27.4%	
TOTAL NONRESIDENTIAL	336.877	2.2%	34.4%	8.9%	

Source: ConstructConnect Research Group/Table: ConstructConnect.

and engineering services, +2.6%; 'cement and concrete product manufacturing', +1.9%; and 'building material and supplies dealers', 0.0%.

M/M, Y/Y and YTD Results — Boosts from Transport and Power Projects

August's +8.9% climb in total nonresidential starts month-over-month (m/m) was driven by industrial (+75.6%) and heavy engineering/civil (+27.4%) work, as commercial (-30.2%) and institutional (-15.4%) dropped back. As set out in the Top 10 list on page 5, projects initiated by ExxonMobil and Fiat Chrysler boosted industrial work in the latest month and engineering was lifted by railroad and rapid transit work, as well as electric power projects to utilize wind and natural gas.

The big jump in total nonresidential starts of +34.4% in August 2019 versus August 2018 (y/y) was again a matter of impressive strength in industrial (+155.8%) and heavy engineering (+64.9%) that overwhelmed weakness in institutional (-13.2%) and commercial (-9.6%).

The pattern also repeated with respect to year-to-date (ytd) total nonresidential starts. In August, the +2.2% figure overall was mainly thanks to industrial (+68.1%), with a minor assist from civil (+5.7%), as there was no help coming from commercial (-11.7%) or institutional (-5.9%).

To Date in 2019, Engineering the Star Performer

* Includes transportation terminals and sports arenas

'Road/highway' work has accounted for the biggest share (38%) of heavy engineering/civil groundbreakings so far this year. Nevertheless, in August, street starts were uniformly negative according to the three major metrics: -29.4% m/m; -18.3% y/y; and -1.9% ytd. In second place for share (21%) within engineering to date in 2019 has been the 'miscellaneous' sub-category (transit, RRs, power plants) and it has been outstanding: +489.6% m/m; +1020.7% y/y; and +15.7% ytd. Bridge work has also been a winner: +4.3% m/m; +52.4% y/y; and +13.4% ytd.

Continued on page 3



Continued from page 2

Institutional starts to date in 2019 have been nearly two-thirds (63%) comprised of school/college work. Such educational facility starts in August were -9.9% m/m and -12.7% y/y, but +0.4% ytd. Medical facility starts, — i.e., as the combination of 'hospitals/clinics', 'nursing/assisted living' facilities and 'miscellaneous medical' projects, — have contributed one-quarter (a 25% slice) to the total for institutional so far this year. In August, health care facility starts were down across the board: -26.9% m/m; -6.6% y/y; and -17.1% ytd.

Despite its first-place ranking among sub-categories for share (22%) within commercial during this year's first eight months, 'private office building' starts in August were: -58.3% m/m; -31.6% y/y; and -14.6% ytd. Three other sub-categories have recorded nearly tied shares — 'warehouses', 16%; 'hotels/motels', 15%; and 'retail/shopping', 13%. In August, 'warehouse' starts were -3.9% y/y and -11.1% ytd, but +58.2% ytd; 'hotels/motels', were -13.1% m/m, -27.2% y/y, and -32.9% ytd; and 'retail/shopping', -6.4% m/m, -29.3% y/y, and -19.2% ytd.

A Pause in JOLTS and a Slight Upwards Bias in the Trend Graphs

Levels and rates of job openings in the construction sector continue to be extraordinarily high (Graph 1), but the three-month moving averages of both have declined a bit in the past two months. The individual month of July's figures for level and rate, at 373,000 and 4.7%, were no match for April's peak readings of 434,000 and 5.5%. As for hires (Graph 2), they're also demonstrating some hesitancy, although that may be due to a shortage of available workers.

Among the 12-month moving average trend graphs on page 6, the heavy engineering curve continues to trend higher, while the nonresidential buildings line has stabilized at \$25.0 billion, which is way up from less than \$15.0 billion in the aftermath of the recession (Graph 3). Graph 4 shows institutional and commercial starts tailing off slightly of late. Retail is in steep decline, but private office buildings are maintaining momentum (Graph 5). The schools/colleges trend line in Graph 6 has managed more upwards movement than the hospitals/clinics curve. The roads/highways and water/sewage curves have both been upbeat in Graph 7. The bridges curve in Graph 8 is on a quite positive track, but no more so than 'miscellaneous civil' (rapid transit lines, railroad work and electricity projects), which draws its strength from mega projects.

Construction Workers Lagging in Wage Gains

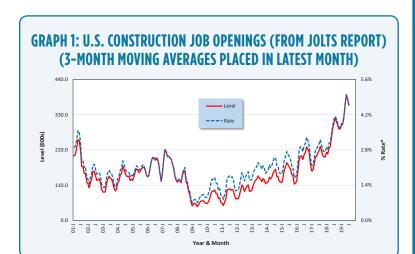
Tables B-3 and B-8 of the monthly *Employment Situation* report record average hourly and average weekly wages for industry sectors. B-3 is for all employees (i.e., including bosses) on non-farm payrolls. B-8 is for 'production and non-supervisory personnel' only (i.e., it excludes bosses). For 'all jobs' and construction, there are eight relevant percentage changes to consider.

From August's BLS Table B-3 (including supervisory personnel), the 'all-jobs' earnings increases were +3.2% hourly and +2.9% weekly. Construction workers as a subset of 'all-jobs' fell behind hourly, +2.7%, but were better rewarded weekly, +3.3%. From the latest Table B-8 (excluding bosses), the all-jobs compensation gains were +3.5% hourly and +2.9% weekly. At +2.5% both hourly and weekly, non-supervisory construction workers failed to keep up.

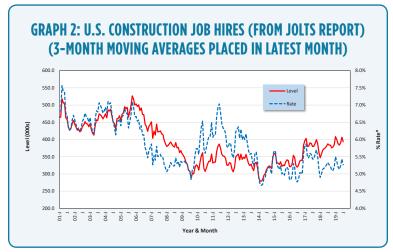
Some Signs of Easing in Construction Costing

Further on costing, August 2019's y/y results for three BLS Producer Price Index (PPI) series were: 'construction materials special index', -2.0% (more negative than -1.5% in July); 'inputs to new construction index, excluding capital investment, labor and imports', +0.4% (up from +0.2% in July); and 'final demand construction', +5.4% (slight easing from July's +5.5%).

The value of construction starts each month is summarized from Construct-Connect's database of all active construction projects in the U.S. Missing project values are estimated with the help of RSMeans' building cost models.



*Rate is number of job openings end-of-month as % of 'construction employment plus number of job openings'. JOLTS – Job Openings and Labor Turnover Survey. Latest seasonally adjusted (SA) data points are for July, 2019.



*Rate is number of hires during month as % of construction employment.

JOLTS – Job Openings and Labor Turnover Survey. Latest seasonally adjusted (SA) data points are for July, 2019.

Data source: Bureau of Labor Statistics/Charts: ConstructConnect.

ConstructConnect's non-residential construction starts series, because it is comprised of total-value estimates for individual projects, some of which are ultra-large, has a history of being more volatile than many other leading indicators for the economy.

ConstructConnect's total residential starts (i.e., single-family plus multi-family starts) in the latest month were -2.7% m/m, -16.1 y/y and -12.1% ytd. To date in 2019, the multi-family component of residential (-22.5%) has struggled more than the single-family (-7.6%) side. 'Grand total' construction starts in August were +5.1% m/m, +13.6% y/y and -3.3% ytd.

Alex Carrick

ConstructConnect has moved to a better-targeted and research-assigned 'start' date. (Prior to January 2017, the 'start' date was recorded as occurring within 30 to 60 days of the announced bid date.) In concept, a 'start' is equivalent to ground being broken for a project to proceed. If work is abandoned or re-bid, the 'start' date is revised to reflect the new information.

Alex Carrick is Chief Economist for ConstructConnect. He has delivered presentations throughout North America on the U.S., Canadian and world construction outlooks. Mr. Carrick has been with the company since 1985. Links to his numerous articles are featured on Twitter @ConstructConnx, which has 50,000 followers.



TABLE 2: VALUE OF UNITED STATES CONSTRUCTION STARTS — ConstructConnect® INSIGHT VERSION — AUGUST 2019 ARRANGED TO MATCH THE ALPHABETICAL CATEGORY DROP-DOWN MENUS IN INSIGHT

	Jan-Aug 2019 (\$ billions)	% Change Jan-Aug 19 vs Jan-Aug 18	% Change Aug 19 vs Aug 18	% Chang Aug 19 v Jul 1
	(+	g	3	
Summary				
CIVIL	121.859	5.7%	64.9%	27.4
NONRESIDENTIAL BUILDING	215.018	0.3%	19.8%	-0.5
RESIDENTIAL	179.277	-12.1%	-16.1%	-2.7
GRAND TOTAL	516.154	-3.3%	13.6%	5.1
Verticals				
Airport	4.807	-2.1%	5.3%	-24.5
All Other Civil	17.694	4.9%	1002.6%	637.4
Bridges	18.113	13.4%	52.4%	4.3
Dams / Canals / Marine Work	5.565	48.7%	-27.0%	-16.8
Power Infrastructure	8.422	47.6%	1080.9%	263.7
Roads	46.103	-1.9%	-18.3%	-29.4
Water and Sewage Treatment	21.155	0.4%	7.0%	-27.
IVIL	121.859	5.7%	64.9%	27.
Offices (private)	18.246	-14.6%	-31.6%	-58.
Parking Garages	2.092	15.6%	-8.7%	-61.
Transportation Terminals	8.395	97.7%	104.9%	-70.
Commercial (small subset)	28.734	4.8%	-15.7%	-62.
Amusement	4.398	-15.1%	2.9%	-57.
Libraries / Museums	2.313	34.1%	-50.5%	-81.
Religious	1.086	-25.9%	-26.0%	54.
Sports Arenas / Convention Centers	4.331	-24.8%	183.9%	-27.
Community	12.128	-14.2%	15.9%	-50.
College / University	12.216	-9.0%	-25.6%	-5.
Elementary / Pre School	16.044	1.7%	-7.6%	-16.
Jr / Sr High School	23.581	5.4%	-10.8%	-5.
Special / Vocational	1.222	-5.2%	45.8%	-37.
Educational	53.064	0.4%	-12.7%	-9.
Courthouses	0.850	-21.7%	-20.0%	67.
Fire and Police Stations	2.103	-2.7%	-39.8%	25.
Government Offices	7.774	12.6%	1.6%	-26.
Prisons	1.279	-36.2%	-14.2%	7.
Government	12.006	-1.2%	-10.7%	-13
Industrial Labs / Labs / School Labs	1.333	-35.2%	56.1%	122
Manufacturing	43.400	68.1%	155.8%	75.
Warehouses	13.127	-11.1%	-3.9%	58
Industrial	57.861	35.7%	106.5%	73.
Hospitals / Clinics	10.842	-5.0%	21.8%	-22.
Medical Misc.	5.018	-34.0%	-32.6%	12
Nursing Homes	5.706	-18.7%	-52.2%	-65.
Medical	21.566	-17.1%	-6.6%	-26.
Military	2.618	-7.2%	-14.8%	15.
Hotels	12.175	-32.9%	-27.2%	-13.
Retail Misc.	4.246	-15.3%	7.3%	0.
Shopping	10.622	-19.2%	-29.3%	-6.
Retail	27.043	-25.5%	-23.3%	-8.
IONRESIDENTIAL BUILDING	215.018	0.3%	19.8%	-0.
Multi-Family	47.749	-22.5%	-32.9%	12.
Single-Family	131.527	-7.6%	-8.4%	-7.
RESIDENTIAL	179.277	-12.1%	-16.1%	-2.
NONRESIDENTIAL	336.877	2.2%	34.4%	8.
GRAND TOTAL	516.154	-3.3%	13.6%	5.

Table 1 conforms to the type-of-structure ordering adopted by many firms and organizations in the industry. Specifically, it breaks nonresidential building into ICI work (i.e., industrial, commercial and institutional), since each has its own set of economic and demographic drivers. Table 2 presents an alternative, perhaps more user-friendly and intuitive type-of-structure ordering that matches how the data appears in ConstructConnect's on-line product 'Insight'.

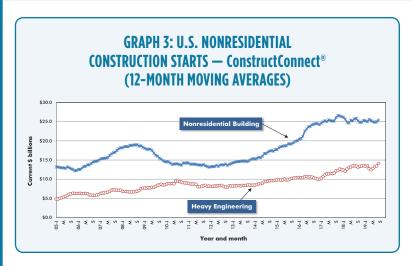


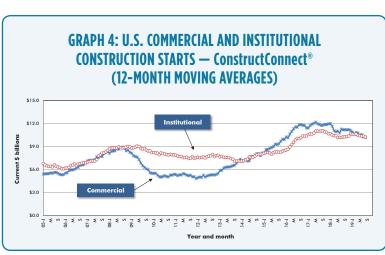
TABLE 3: ConstructConnect's TOP 10 PROJECT STARTS IN AUGUST 2019

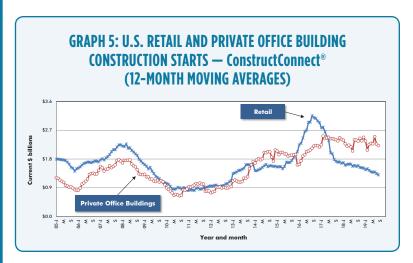
LOCATION (EAST TO WEST)	TYPE OF CONSTRUCTION	DESCRIPTION	SQUARE FEET 000S*	DOLLARS 000,000S
Massachusetts Boston	Institutional	Beth Israel Deaconess Medical Center Inpatient Building (1 structure; 10 stories; 158 beds) 111 Francis St Beth Israel Deaconess Medical Center Facilities Department	1,759	\$534
Virginia Alexandria	Commercial	WMATA Potomac Yard Metro Rail Station (2 structures; 3 stories) George Washington Memorial Pkwy City of Alexandria - Purchasing	200	\$370
Florida Orlando	Civil/Engineering	Virgin Trains (Formerly The Brightline Express) - Second Phase FL-528 All Aboard Florida LLC	*	\$4,000
Michigan Detroit	Industrial	Fiat Chrysler Assembly Plant (1 structure) 4000 St Jean Fiat Chrysler Automobiles	791	\$1,600
East China	Civil/Engineering	Blue Water Energy Center / East China Township (natural gas-fired power plant) (1 structure) M-29 DTE Energy	*	\$1,000
Madison Heights	Civil/Engineering	I-75 Modernization Segment 3 Michigan Department of Transportation (MDOT) - Metro Office	*	\$750
Illinois Chicago	Civil/Engineering	The Red and Purple Modernization (RPM) Project Phase One Multiple Locations Chicago Transit Authority (CTA)	*	\$2,100
lowa Des Moines	Civil/Engineering	Wind XII Electric Power Generation Midamerican Energy	*	\$922
Texas Corpus Christi	Industrial	ExxonMobil Ethane Cracker Plant (1 structure) SABIC	*	\$10,000
Nevada Reno	Industrial	North Valleys Commerce Center IV (1 structure) Virginia St & Stead Blvd Panattoni Development	1,357	\$729
TOTALS:			4,107	\$22,005

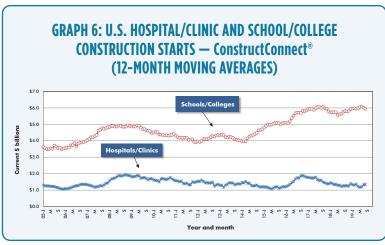
^{*}A square footage measure does not apply for alteration, some forms of industrial (e.g., petrochemical) and most engineering/civil work.

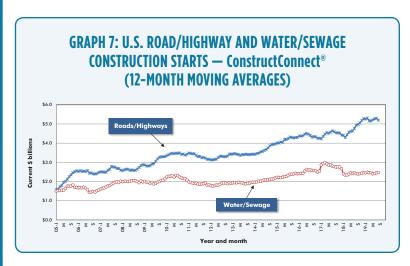


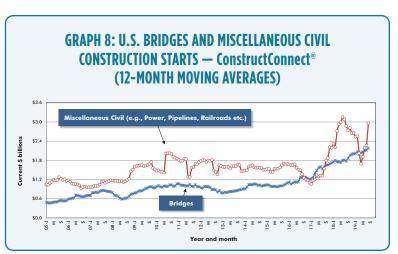












The last data points in all the graphs on this page are for August, 2019.



TABLE 4: U.S. YEAR-TO-DATE REGIONAL STARTS NONRESIDENTIAL CONSTRUCTION* — ConstructConnect®

Connecticut \$2,684,542,448 \$3,304,999,213 23.1% Maine \$3.1652,846,666 \$1,132,075,146 3.31.5% Maine \$5.1052,846,666 \$1,132,075,146 3.31.5% Massachusetts \$6,70,818,039 \$8,338,848,300 30.5% New Hampshire \$1,068,371,574 \$979,317,236 4.33% New Hampshire \$1,068,371,574 \$979,317,236 4.33% New Hampshire \$1,068,371,574 \$979,317,236 4.33% Vermont \$339,147,410 \$292,080,261 2.25,7% Total New Identification \$13,729,159,675 \$15,155,585,4125 10.48% New Jersey \$5,733,787,256 \$4,682,047,670 1.83.3% New York \$19,973,851,369 \$16,165,176,621 19.1% Pennsylvania \$3,384,052,533 \$10,758,885,867 1.47% Total Middle Atlantic \$35,916,931,158 \$31,005,101,158 \$10,758,885,867 1.47% \$104,873,871,973,871,369 \$10,758,885,867 1.47% \$104,871,871,871,871,871,871,871,871,871,871		Jan-Aug 2018	Jan-Aug 2019	% Change
Massachusetts \$6,770,818,039 \$8,83,848,300 30.5% Rhode Island \$1,159,429,548 \$611,533,969 4-7.3% Rhode Island \$1,159,429,548 \$611,533,969 4-7.3% Vermont \$333,147,410 \$292,080,261 -25.7% Total New England \$13,729,159,675 \$15,155,854,125 10.4% New York \$19,973,851,369 \$15,165,176,621 11.91.% New York \$19,973,851,369 \$15,165,176,621 19.1% Pennsylvania \$3,384,052,533 \$10,758,885,867 1.47% Total Middle Allantic \$350,961,158 \$31,060,110,158 9.9% TOTAL NORTHEAST \$48,820,850,833 \$46,761,964,283 4.25% Indian \$5,611,806,620 \$4,587,557,812 1.83% Indian \$5,611,806,620 \$4,587,557,812 1.83% Wisconsin \$17,281,736,040 \$6,221,293,478 -60.0% Ohio \$10,627,71,183 \$8,801,772,456 -1.8% Wisconsin \$17,281,736,040 \$6,221,293,478 -6.00 <t< td=""><td>Connecticut</td><td>\$2,684,542,448</td><td>\$3,304,999,213</td><td>23.1%</td></t<>	Connecticut	\$2,684,542,448	\$3,304,999,213	23.1%
New Hampshire \$1.068,372,574 \$979,317,236 \$4.33* Vermont \$393,147,410 \$292,080,261 \$25,7% Total New England \$13,729,159,675 \$15,155,884,125 \$10.48* New Jersey \$5,73,787,255 \$4,682,047,670 \$13,897,387,1369 \$16,165,176,621 \$19,973,851,369 \$16,165,176,621 \$19,973,851,369 \$16,165,176,621 \$19,973,851,369 \$10,165,176,621 \$19,973,851,369 \$10,165,176,621 \$19,973,851,369 \$10,165,176,621 \$19,973,851,369 \$10,165,176,621 \$19,973,851,369 \$10,165,176,621 \$19,973,851,369 \$10,165,176,621 \$19,973,851,369 \$10,165,176,621 \$10,704 \$10,804,025,333 \$10,758,885,867 \$14,786 \$170AL NORTHEAST \$48,820,850,833 \$46,761,964,283 \$42,805,833 \$46,761,964,283 \$42,805,833 \$46,761,964,283 \$42,805,833 \$46,761,964,283 \$42,805,833 \$46,761,964,283 \$42,805,833 \$46,761,964,283 \$42,805,833 \$46,761,964,283 \$42,805,833 \$46,761,964,283 \$42,805,833 \$46,761,964,283 \$42,805,833 \$46,761,964,283 \$42,805,833 \$41,064,327,039 \$43,040,802 \$43,964,327,039 \$43,040,802 \$44,964,327,039 \$43,040,802 \$44,964,327,039 \$43,040,802 \$44,964,327,039 \$43,040,802 \$44,964,327,039 \$43,040,802 \$44,964,327,039 \$43,040,802 \$44,964,327,039 \$43,040,802 \$44,964,327,039 \$43,040,802 \$44,964,327,039 \$43,040,802 \$44,964,327,039 \$43,040,802 \$44,964,327,039 \$43,040,802 \$44,964,327,039 \$43,040,802 \$44,964,327,039 \$43,040,802 \$44,964,327,039 \$44,040,802 \$44,964,327,039 \$44,040,802 \$44,964,327,039 \$44,040,802 \$44,964,327,039 \$44,040,802 \$44,964,327,039 \$44,040,802 \$44,040	Maine	\$1,652,849,656	\$1,132,075,146	-31.5%
Rhode Island	Massachusetts	\$6,770,818,039	\$8,835,848,300	30.5%
Vermont \$393,147,410 \$292,080,261 2-2.57% Total New Lergind \$13,729,159,675 \$15,155,854,125 10.4% New Vork \$19,973,851,369 \$16,165,176,621 -19.1% Pennsylvania \$9,384,025,233 \$10,758,885,867 14.7% Total Middle Atlantic \$38,091,691,158 \$31,606,110,158 -9.9% TOTAL NORTHEAST \$48,820,850,833 \$46,761,964,283 -4.2% Illinois \$9,927,735,772 \$11,602,898,428 16.9% Indiana \$6,611,806,620 \$4,887,557,812 13.3% Michigan \$7,335,109,998 \$91,50,804,885 24.8% Ohio \$10,706,271,183 \$8,001,772,436 -1.8% Wisconsin \$17,281,736,040 \$6,922,1293,478 -60.0% Wisconsin \$17,281,736,040 \$6,922,1293,478 -60.0% Kansas \$3,934,018,024 \$4,696,593,796 >19.4% Kansas \$3,899,070,686 \$3,005,745,298 >21.4% Minsouri \$6,022,139,390,80 \$5,807,298,397 >3.6% <	•			
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Visconsin \$17,281,736,040 \$6,921,293,478 -60.0% Total East North Central \$50,862,659,613 \$41,004,327,039 -19.3% Iowa \$3,934,018,024 \$4,696,593,796 19.4% Kansas \$3,899,070,686 \$3,065,745,298 -21.4% Minnesota \$6,682,646,499 \$7,789,840,175 16.5% Missouri \$6,021,839,080 \$5,807,208,397 -3.6% Nebraska \$1,897,569,678 \$2,481,706,568 30.8% North Dakota \$1,280,875,233 \$1,116,145,384 -12.9% Total West North Central \$26,525,904,740 \$26,126,331,374 -1.5% Total West North Central \$26,525,904,740 \$26,126,331,374 -1.5% Total Midwest North Central \$22,6525,904,740 \$26,126,331,374 -1.5% Total West North Central \$26,525,904,740 \$26,126,331,374 -1.5% Total West North Central \$26,525,904,740 \$26,126,331,374 -1.5% District of Columbia \$2,609,070,149 \$1,226,414,8383 >22,56% Florida \$2,007,2839,062 <td>Michigan</td> <td>\$7,335,109,998</td> <td>\$9,150,804,885</td> <td>24.8%</td>	Michigan	\$7,335,109,998	\$9,150,804,885	24.8%
Total East North Central \$50,862,659,613 \$41,064,327,039 1-19.3% Iowa \$3,934,018,024 \$4,696,593,796 19.4% Kansas \$3,899,070,686 \$3,055,745,298 -21.4% Minnesota \$6,684,264,949 \$7,789,840,175 16.5% Missouri \$6,602,133,9080 \$5,807,208,397 -3.6% North Dakota \$1,897,559,678 \$2,481,706,568 30.8% North Dakota \$1,280,875,233 \$1,116,169,901,756 -58.4% South Dakota \$1,280,875,233 \$1,116,164,5384 -12.9% Total West North Central \$26,525,904,740 \$26,126,331,374 -1.5% TOTAL MIDWEST \$77,388,564,553 \$67,190,658,413 -13.2% Delaware \$687,808,393 \$812,591,961 81.8% Piorida \$2,007,2839,062 \$23,551,414,848 17.3% Georgia \$8,129,176,944 \$12,234,485,661 59.1% Maryland \$5,159,442,619 \$4,859,050,173 5.8% North Carolina \$9,738,001,935 \$8,486,916,930 -12.8%	Ohio	\$10,706,271,183	\$8,801,772,436	-17.8%
lowa \$3,934,018,024 \$4,696,593,796 19.4% Kansas \$3,899,070,686 \$3,005,745,298 -21.4% Minnesota \$6,684,264,949 \$7,789,880,075 6.5% Missouri \$6,021,839,080 \$5,807,208,397 -3.6% Nebraska \$1,897,569,678 \$2,481,706,568 30.8% North Dakota \$1,280,875,233 \$1,116,145,384 -12.9% South Dakota \$1,280,875,233 \$1,116,145,384 -12.9% Total West North Central \$26,525,904,740 \$26,126,331,374 -1.5% Total West North Central \$20,007,0149 \$1,236,418,893 -52,69 Florida \$2,000,701,49 \$1,236,418,893 -52,6% Florida \$2,007,2839,062 \$23,551,414,848 17.3% Georgia \$8,129,176,944 \$12,934,485,661 59.1% Maryland \$5,159,442,619 \$4,859,500,173 5.8% North Carolina \$9,738,001,935 \$8,486,916,930 -12.8% South Carolina \$4,845,348,811 \$4,534,442,959 -6.4%	Wisconsin	\$17,281,736,040	\$6,921,293,478	-60.0%
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Nebraska \$1,897,569,678 \$2,481,706,568 30.8% North Dakota \$2,808,267,090 \$1,169,091,756 -58.4% South Dakota \$1,280,875,233 \$1,116,145,384 -12.9% Total West North Central \$26,525,904,740 \$26,126,331,374 -1.5% TOTAL MIDWEST \$77,388,564,353 \$67,190,658,413 -13.2% Delaware \$687,808,393 \$811,559,196 18.1% District of Columbia \$2,609,070,149 \$1,236,418,893 -52.6% Florida \$20,072,839,062 \$23,551,414,848 17.3% Georgia \$8,129,176,944 \$12,934,485,661 59.1% Maryland \$5,159,442,619 \$4,859,050,173 -5.8% North Carolina \$9,738,001,935 \$8,486,916,930 -12.8% South Carolina \$4,845,348,811 \$4,384,142,999 -6.4% Virginia \$11,402,332,965 \$6,902,33,515 -39,4% West Virginia \$5,289,738,881 \$1,203,168,892 -81,4% Virginia \$11,402,332,965 \$64,524,409,067 -6.7% </td <td></td> <td></td> <td></td> <td></td>				
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TOTAL MIDWEST \$77,388,564,353 \$67,190,658,413 -13.2% Delaware \$687,808,393 \$812,559,196 18.1% District of Columbia \$2,609,070,149 \$1,236,418,893 -52.6% Florida \$20,072,839,062 \$23,551,414,848 17.3% Georgia \$8,129,176,944 \$12,934,485,661 59.1% Maryland \$5,159,442,619 \$4,859,050,173 -5.8% North Carolina \$9,738,001,935 \$8,486,916,930 -12.8% South Carolina \$4,845,348,811 \$4,534,142,959 -6.4% Virginia \$11,402,332,965 \$6,906,233,515 -39.4% West Virginia \$6,528,925,389 \$1,203,186,892 -81.6% Total South Atlantic \$69,172,946,267 \$64,524,409,067 -6.7% Alabama \$3,870,680,149 \$5,828,722,252 \$0.6% Kentucky \$3,420,735,937 \$4,330,567,620 \$2.6% Mississippi \$1,616,312,899 \$1,828,147,829 \$1.3* Tennessee \$5,710,990,576 \$5,622,871,552 \$1.5%				
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California \$31,105,370,787 \$25,303,628,569 -18.7% Hawaii \$1,834,105,843 \$1,418,811,439 -22.6% Oregon \$4,566,583,930 \$4,045,077,467 -11.4% Washington \$9,704,470,170 \$11,498,823,692 18.5% Total Pacific \$48,525,751,996 \$43,006,673,387 -11.3% TOTAL WEST \$73,631,636,530 \$68,980,821,641 -6.3%			\$25,920,148,254	3.2%
Hawaii \$1,834,105,843 \$1,418,811,439 -22.6% Oregon \$4,566,583,930 \$4,045,077,467 -11.4% Washington \$9,704,470,170 \$11,498,823,692 18.5% Total Pacific \$48,525,751,996 \$43,060,673,387 -11.3% TOTAL WEST \$73,631,636,530 \$68,980,821,641 -6.3%				
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TOTAL WEST \$73,631,636,530 \$68,980,821,641 -6.3%				

^{*}Figures above are comprised of non-res building and engineering (i.e., residential is omitted).



TABLE 5: VALUE OF U.S. NATIONAL CONSTRUCTION STARTS — AUGUST 2019 — ConstructConnect® BILLIONS OF CURRENT \$S, NOT SEASONALLY ADJUSTED (NSA)

	Lates	t month actua	ls		Moving	averages (pla	aced in end mo	nth)	1	Year to Do	
	Jun 19	Jul 19	Aug 19	Jun 19	3-months Jul 19	Aug 19	Jun 19	12-months Jul 19	Aug 19	Jan-Aug 2018	Jan-Aug 2019
ingle Family	17.793	17.729	16.487	17.794	17.555	17.336	16.129	16.090	15.964	142.387	131.52
month-over-month % change year-over-year % change	3.8% -5.9%	-0.4% -2.6%	-7.0% -8.4%	3.3% -9.7%	-1.3% -8.3%	-1.2% -5.6%	-0.6% -6.1%	-0.2% -6.1%	-0.8% -6.8%	4.0%	-7.69
partment	5.774	4.893	5.520	5.923	5.143	5.395	7.099	6.877	6.651	61.574	47.74
month-over-month % change year-over-year % change	21.2% -34.9%	-15.3% -35.3%	12.8% -32.9%	-5.4% -28.0%	-13.2% -36.3%	4.9% -34.4%	-3.5% -14.2%	-3.1% -15.8%	-3.3% -17.2%	-26.0%	-22.59
OTAL RESIDENTIAL	23.566	22.622	22.006	23.717	22.698	22.731	23.228	22.967	22.615	203.961	179.27
month-over-month % change year-over-year % change	7.6% -15.2%	-4.0% -12.2%	-2.7% -16.1%	1.0% -15.1%	-4.3% -16.6%	0.1% -14.5%	-1.5% -8.7%	-1.1% -9.3%	-1.5% -10.1%	-7.3%	-12.19
otel/Motel	1.545	1.354	1.177	1.470	1.452	1.359	1.752	1.719	1.682	18.156	12.17
month-over-month % change year-over-year % change	6.0% -9.8%	-12.3% -22.9%	-13.1% -27.2%	-15.2% -53.3%	-1.2% -52.4%	-6.4% -19.9%	-0.8% -20.2%	-1.9% -22.4%	-2.1% -22.7%	-12.3%	-32.99
etail/Shopping month-over-month % change	1.501 2.7%	1.159	1.085	1.465 5.2%	1.374 -6.2%	1.248 -9.1%	1.397 0.9%	1.344	1.306	13.141	10.62
year-over-month % change year-over-year % change	11.0%	-35.3%	-29.3%	-11.2%	-0.2% -14.5%	-9.1%	-11.4%	-3.8% -16.0%	-16.8%	-8.1%	-19.2
arking Garages month-over-month % change	0.302	0.401	0.156	0.264	0.325 22.9%	0.286	0.248	0.262	0.261	1.809	2.09
year-over-month % change year-over-year % change	11.0% 86.0%	32.8% 75.4%	-61.2% -8.7%	-2.2% -13.2%	12.9%	-11.9% 52.9%	4.9% -3.6%	5.8% -2.7%	-0.5% -3.5%	-13.0%	15.6
musement month-over-month % change	0.610 34.7%	1.059 73.6%	0.454 -57.2%	0.494 13.2%	0.707 43.1%	0.708	0.592 -4.0%	0.642 8.4%	0.643	5.182	4.39
year-over-year % change	-32.5%	127.8%	2.9%	-35.6%	0.7%	17.3%	-14.4%	-1.8%	0.4%	-3.3%	-15.1
ffice month-over-month % change	3.918 194.4%	2.910 -25.7%	1.213 -58.3%	2.735	2.719 -0.6%	2.680 -1.4%	2.498 9.8%	2.266	2.219 -2.1%	21.361	18.24
year-over-year % change	215.4%	-48.9%	-31.6%	54.2%	-3.3%	-7.7%	21.7%	-5.7%	-7.3%	-1.2%	-14.6
overnmental Offices month-over-month % change	1.215 33.3%	1.562 28.6%	1.145 -26.7%	1.024	1.229 20.1%	1.307 6.3%	0.929 1.3%	0.989 6.5%	0.991 0.1%	6.905	7.77
year-over-year % change	13.6%	86.9%	1.6%	1.7%	27.2%	29.3%	13.8%	28.0%	24.1%	-12.6%	12.6
boratories month-over-month % change	0.106 8.0%	0.142 33.8%	0.315	0.133 -20.8%	0.115 -13.2%	0.187 62.8%	0.208 -4.2%	0.173 -16.8%	0.182 5.5%	2.057	1.33
year-over-year % change	-51.0%	-74.7%	56.1%	-54.5%	-70.4%	-42.5%	0.7%	-27.6%	-27.1%	0.1%	-35.2
arehouse month-over-month % change	1.756 30.2%	1.217 -30.7%	1.925 58.2%	2.016 6.1%	1.441 -28.5%	1.633 13.3%	1.753 0.8%	1.667 -4.9%	1.661 -0.4%	14.772	13.12
year-over-year % change	10.1%	-45.9%	-3.9%	1.1%	-35.0%	-16.3%	-0.2%	-5.2%	-4.4%	-4.6%	-11.1
isc Commercial month-over-month % change	0.528 -89.0%	2.161 309.5%	0.883 -59.1%	2.011	2.489 23.8%	1.191 -52.2%	1.193 -10.0%	1.197 0.4%	1.239 3.5%	10.006	12.72
year-over-year % change	-75.1%	2.4%	136.3%	14.2%	44.2%	-22.4%	-1.6%	-11.9%	-7.5%	-24.6%	27.2
OTAL COMMERCIAL month-over-month % change	11.479 -5.2%	11.963 4.2%	8.352 -30.2%	11.611 -1.3%	11.851 2.1%	10.598 -10.6%	10.569 0.9%	10.259 -2.9%	10.184 -0.7%	93.389	82.49
year-over-year % change	10.7%	-23.8%	-30.2%	-1.3% -8.5%	-13.9%	-9.9%	-1.8%	-2.9% -9.0%	-8.8%	-9.1%	-11.7
DTAL INDUSTRIAL (Manufacturing) month-over-month % change	0.428 -96.5%	6.820 1491.9%	11.979 75.6%	4.683 -24.6%	6.540 39.7%	6.409 -2.0%	3.370 -4.2%	3.834 13.7%	4.442 15.9%	25.822	43.40
year-over-year % change	-80.7%	440.0%	155.8%	-11.2%	25.5%	135.4%	-7.2%	5.6%	16.2%	54.6%	68.1
eligious	0.146 -1.9%	0.083	0.129 54.6%	0.143	0.126 -11.5%	0.119 -5.3%	0.159 -7.3%	0.155 -2.8%	0.151 -2.4%	1.465	1.08
month-over-month % change year-over-year % change	-50.8%	-39.2%	-26.0%	-42.2%	-42.9%	-41.1%	-10.0%	-9.8%	-12.4%	-11.0%	-25.9
osptials/Clinics month-over-month % change	1.675 171.1%	2.399 43.2%	1.862	0.996 6.5%	1.564 57.0%	1.979 26.5%	1.196 2.5%	1.321 10.4%	1.348 2.1%	11.406	10.84
year-over-year % change	26.7%	166.5%	21.8%	-39.3%	30.6%	58.3%	-7.5%	7.6%	6.6%	-11.3%	-5.0
ursing/Assisted Living month-over-month % change	0.472 -38.3%	0.738 56.3%	0.256 -65.2%	0.672 -17.6%	0.658 -2.0%	0.489 -25.8%	0.803 -4.7%	0.797 -0.7%	0.774 -2.9%	7.021	5.70
montn-over-montn % cnange year-over-year % change	-50.1%	-8.3%	-52.2%	-17.6%	-2.0%	-25.8% -35.9%	-4.7%	-16.2%	-16.1%	-10.7%	-18.7
braries/Museums month-over-month % change	0.201 -62.5%	0.476 137.3%	0.089 -81.3%	0.352 -13.5%	0.404 14.8%	0.255 -36.8%	0.260 -1.8%	0.285 9.5%	0.278 -2.7%	1.724	2.31
year-over-year % change	-21.9%	164.5%	-50.5%	19.4%	37.7%	24.2%	4.0%	23.3%	29.8%	-37.1%	34.1
re/Police/Courthouse/Prison month-over-month % change	0.630 -1.5%	0.506 -19.6%	0.648 28.1%	0.596 11.3%	0.592 -0.8%	0.595 0.5%	0.643 -1.6%	0.612 -4.9%	0.593 -3.2%	5.251	4.23
year-over-year % change	-16.7%	-42.7%	-26.4%	-21.4%	-23.8%	-29.2%	11.0%	-0.4%	-6.3%	-14.0%	-19.4
ilitary month-over-month % change	0.358 27.4%	0.349 -2.7%	0.402 15.3%	0.308 -8.3%	0.329 6.9%	0.370 12.2%	0.427	0.425 -0.5%	0.419 -1.4%	2.820	2.61
year-over-year % change	-0.4%	-7.2%	-14.8%	-22.0%	-28.6%	-8.2%	6.8%	6.0%	0.4%	9.0%	-7.2
thools/Colleges month-over-month % change	10.534 27.7%	6.136	5.530 -9.9%	8.792 21.2%	8.306 -5.5%	7.400 -10.9%	6.084 0.5%	6.010 -1.2%	5.943 -1.1%	52.867	53.06
year-over-year % change	3.8%	-12.6%	-12.7%	6.8%	1.4%	-5.5%	8.5%	6.4%	3.1%	-0.6%	0.4
isc Medical month-over-month % change	0.813 -11.9%	0.439 -46.0%	0.494 12.6%	0.841	0.725 -13.8%	0.582 -19.7%	0.784 -6.0%	0.744 -5.2%	0.724 -2.7%	7.602	5.01
year-over-year % change	-42.3%	-52.5%	-32.6%	-32.2%	-34.6%	-43.1%	-14.7%	-20.6%	-17.6%	-4.6%	-34.0
DTAL INSTITUTIONAL month-over-month % change	14.829 22.0%	11.126 -25.0%	9.411	12.699 13.6%	12.704 0.0%	11.788 -7.2%	10.356 -0.5%	10.348 -0.1%	10.229 -1.2%	90.156	84.87
year-over-year % change	-4.3%	-0.9%	-13.4%	-7.9%	-3.6%	-5.8%	1.6%	1.6%	-0.3%	-5.0%	-5.9
isc Non Residential month-over-month % change	0.538 16.4%	0.546	0.551	0.537 -1.0%	0.515 -4.1%	0.545 5.8%	0.555 -4.1%	0.534 -3.8%	0.537	5.010	4.24
year-over-year % change	-34.8%	-31.5%	7.3%	-20.6%	-29.3%	-23.5%	-11.0%	-15.5%	-12.2%	-6.1%	-15.3
DTAL NON-RES BUILDING month-over-month % change	27.274 -26.5%	30.456 11.7%	30.293 -0.5%	29.530 -0.6%	31.611 7.0%	29.341 -7.2%	24.850 -0.5%	24.974 0.5%	25.391 1.7%	214.377	215.01
year-over-year % change	-5.7%	5.1%	19.8%	-9.0%	-3.8%	5.8%	-1.4%	-2.9%	-1.9%	-2.4%	0.3
rports month-over-month % change	0.576 -16.3%	0.859 49.2%	0.648 -24.5%	0.597 17.2%	0.707 18.5%	0.694 -1.9%	0.564 2.6%	0.584 3.5%	0.586	4.909	4.80
year-over-year % change	41.6%	38.5%	5.3%	21.9%	35.8%	26.8%	-40.4%	-38.1%	-37.4%	-21.0%	-2.1
oads/Highways month-over-month % change	6.692 -5.3%	7.550 12.8%	5.330 -29.4%	6.965 8.2%	7.103 2.0%	6.524 -8.2%	5.272 1.0%	5.297 0.5%	5.198 -1.9%	47.001	46.10
year-over-year % change	10.5%	4.1%	-18.3%	6.9%	7.9%	-1.3%	13.6%	11.0%	5.2%	15.1%	-1.9
idges month-over-month % change	2.744 24.9%	2.021 -26.3%	2.107 4.3%	2.581 16.2%	2.320 -10.1%	2.290	2.106 2.0%	2.121 0.7%	2.182 2.8%	15.973	18.11
year-over-year % change	21.9%	10.2%	52.4%	22.8%	17.3%	25.7%	16.9%	17.4%	22.8%	4.6%	13.4
ıms/Marine month-over-month % change	1.139	0.551 -51.6%	0.459 -16.8%	1.193	1.253 5.0%	0.716 -42.8%	0.718 9.4%	0.720 0.3%	0.706 -2.0%	3.741	5.56
vear-over-year % change	185.5%	5.5%	-27.0%	119.6%	140.2%	38.7%	55.5%	59.8%	48.6%	19.6%	48.7
ater/Sewage month-over-month % change	2.598 -12.8%	3.107	2.260 -27.3%	2.986 7.2%	2.895 -3.1%	2.655 -8.3%	2.416 0.6%	2.457 1.7%	2.469 0.5%	21.074	21.15
year-over-year % change	6.6%	19.6% 19.1%	7.0%	-6.0%	-1.3%	11.3%	-0.1%	0.1%	2.3%	-12.7%	0.4
isc Civil (Power, etc.) month-over-month % change	6.467 55.1%	1.545 -76.1%	9.108 489.6%	4.073 66.5%	4.060 -0.3%	5.707 40.5%	2.196 14.9%	2.267 3.2%	2.958 30.5%	22.572	26.11
year-over-year % change	112.6%	-/6.1% 122.2%	489.6% 1020.7%	20.2%	131.3%	40.5% 276.2%	-30.3%	-26.4%	30.5%	56.1%	15.7
OTAL ENGINEERING (Civil)	20.216	15.632	19.912	18.394	18.338	18.587	13.271	13.446	14.100	115.271	121.85
month-over-month % change year-over-year % change	5.5% 38.6%	-22.7% 15.5%	27.4% 64.9%	20.2% 13.4%	-0.3% 28.3%	1.4% 38.7%	3.7% -1.1%	1.3% -0.4%	4.9% 5.1%	10.8%	5.7
RAND TOTAL month-over-month % change	71.056 -9.1%	68.709	72.212 5.1%	71.641	72.647	70.659	61.350 0.0%	61.386	62.106	533.610	516.15
year-over-year % change	-0.3%	-3.3% 0.6%	13.6%	4.6% -6.5%	1.4% -2.3%	-2.7% 4.4%	-4.3%	0.1% -4.9%	1.2% -3.6%	-1.9%	-3.3
ION-RES BLDG + ENGINEERING month-over-month % change	47.490 -15.6%	46.088 -3.0%	50.206 8.9%	47.924 6.5%	49.949 4.2%	47.928 -4.0%	38.122 0.9%	38.420 0.8%	39.491 2.8%	329.648	336.87
month-over-month % change year-over-year % change	9.2%	-3.0% 8.4%	34.4%	-1.5%	4.2% 5.9%	-4.0% 16.6%	-1.3%	-2.0%	0.5%	1.8%	2.29