

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 10-K

Annual Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

FOR THE FISCAL YEAR ENDED December 31, 2021
or

Transition Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Commission file number 001-06714

Graham Holdings Company

(Exact name of registrant as specified in its charter)

Delaware

53-0182885

(State or other jurisdiction of incorporation or organization)

(I.R.S. Employer Identification No.)

1300 North 17th Street, Arlington, Virginia

22209

(Address of principal executive offices)

(Zip Code)

Registrant's Telephone Number, Including Area Code: (703) 345-6300

Securities Registered Pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Class B Common Stock, par value \$1.00 per share	GHC	New York Stock Exchange

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large Accelerated Filer Accelerated filer Non-accelerated filer Smaller reporting company Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report. Yes No

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes No

Aggregate market value of the registrant's common equity held by non-affiliates on June 30, 2021, based on the closing price for the Company's Class B Common Stock on the New York Stock Exchange on such date: approximately \$2,500,000,000.

Shares of common stock outstanding at February 18, 2022:

Class A Common Stock – 964,001 shares

Class B Common Stock – 3,939,977 shares

Documents partially incorporated by reference:

Definitive Proxy Statement for the registrant's 2022 Annual Meeting of Stockholders (incorporated in Part III to the extent provided in Items 10, 11, 12, 13 and 14 hereof).

GRAHAM HOLDINGS COMPANY 2021 FORM 10-K

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PART I

Item 1. Business.

Graham Holdings Company (the Company) is a diversified education and media company whose operations include educational services; television broadcasting; online, podcast, print and local TV news; manufacturing; home health and hospice care; and automotive dealerships. The Company's Kaplan, Inc. (Kaplan) subsidiary provides a wide variety of educational services, both domestically and outside the United States (U.S.). The Company's media operations comprise the ownership and operation of television broadcasting (through the ownership and operation of seven television broadcast stations) plus Slate and Foreign Policy magazines; City Cast, a daily local news podcast and newsletter company; and Pinna, an ad-free audio streaming service for children. The Company's manufacturing companies comprise the ownership of a supplier of pressure treated wood, an electrical solutions company, a manufacturer of lifting solutions, and a supplier of certain parts used in electric utilities and industrial systems. The Company's home health and hospice operations provide home health, hospice and palliative services. The Company's automotive business comprise four dealerships. The Company also owns restaurants, a custom framing company, a cybersecurity training company, a marketing solutions provider, a customer data and analytics software company, and a consumer internet company that builds creator-driven brands in lifestyle, home and art design categories.

Financial information concerning the principal segments of the Company's business for the past three fiscal years is contained in Note 19 to the Company's Consolidated Financial Statements appearing elsewhere in this Annual Report on Form 10-K. Revenues for each segment are shown in Note 19 gross of intersegment sales. Consolidated revenues are reported net of intersegment sales, which did not exceed 0.1% of consolidated operating revenues.

The Company's operations in geographic areas outside the U.S. consist primarily of Kaplan's non-U.S. operations. During each of the fiscal years 2021, 2020 and 2019, these operations accounted for approximately 22%, 22% and 24%, respectively, of the Company's consolidated revenues, and the identifiable assets attributable to non-U.S. operations represented approximately 19% and 21% of the Company's consolidated assets at December 31, 2021 and 2020, respectively.

EDUCATION

Kaplan, a subsidiary of the Company, provides an extensive range of education and related services worldwide for students and professionals. In 2021, Kaplan served approximately 700,000 students and professionals worldwide and had associations with approximately 12,300 companies and commercial relationships with approximately 4,000 universities, colleges, schools and school districts across the globe. Kaplan conducts its operations through three segments: Kaplan North America Higher Education, Kaplan North America Supplemental Education and Kaplan International. As more fully described below, Kaplan consolidated its former Kaplan Higher Education, Kaplan Test Preparation and Kaplan Professional segments into one business, Kaplan North America, operating through two segments, Higher Education and Supplemental Education. In addition, the results of the Kaplan Corporate segment include results of Kaplan's investment activities in education technology companies. The following table presents revenues for each of Kaplan's segments:

(in thousands)	Year Ended December 31		
	2021	2020	2019
Kaplan International	\$ 726,875	\$ 653,892	\$ 750,245
Kaplan North America Higher Education	317,854	316,095	305,672
Kaplan North America Supplemental Education	309,069	327,087	388,814
Kaplan Corporate and Intersegment Eliminations	7,447	8,639	7,019
Total Kaplan Revenue	\$ 1,361,245	\$ 1,305,713	\$ 1,451,750

In 2020, Kaplan combined its three segments based in the United States (Kaplan Higher Education, Kaplan Test Preparation and Kaplan Professional) into one business known as Kaplan North America. The combination reinforces Kaplan's interconnected products and services, increases competitiveness in Kaplan's markets and drives efficiencies.

Kaplan International

Kaplan International (KI) operates businesses in Europe and the Middle East, North America and the Asia Pacific region, each of which is discussed below.

Europe and the Middle East. In Europe, KI operates the following businesses, all of which are based in the United Kingdom (U.K.) and Ireland: Kaplan UK, KI Pathways, Kaplan Languages Group, Mander Portman Woodward,

Dublin Business School, Kaplan Open Learning and BridgeU. In the Middle East, Kaplan Middle East is based in the United Arab Emirates.

The Kaplan UK business in Europe, through Kaplan Financial Limited, is a provider of apprenticeship training and test preparation services for accounting and financial services professionals, including those studying for ACCA, CIMA and ICAEW qualifications. In 2021, Kaplan UK provided courses to over 47,000 students in accountancy and financial services. In addition, Kaplan UK has been the sole authorized assessment provider for the Solicitors Regulation Authority of assessments under The Qualified Lawyers Transfer Scheme for candidates seeking to become solicitors of England and Wales who are already qualified lawyers in certain recognized jurisdictions. In 2021 Kaplan UK became the sole authorized assessment provider for the Solicitors Qualifying Examination for all candidates seeking to become a solicitor in England and Wales. Kaplan UK is headquartered in London, England, and has 19 training centers located throughout the U.K.

The KI Pathways business offers academic preparation programs especially designed for international students who wish to study for degrees from universities in English-speaking countries. In 2021, university preparation programs were delivered in Australia, Japan, Myanmar, Singapore and the U.K.

The Kaplan Languages Group business provides English-language training, academic preparation programs and test preparation for English proficiency exams, principally for students wishing to study and travel in English-speaking countries. As of December 31, 2021, the Kaplan Languages Group operated 19 English-language schools, with 12 located in the U.K., Ireland and Canada and seven located in the U.S. In 2021, the Kaplan Languages Group served approximately 10,300 students for in-class and online English-language instruction. Through the Alpadia language schools located in France, Germany and Switzerland, Kaplan Languages Group also offers adolescents (from 16+) and adults, French and German language training. Alpadia also operates language camps for juniors (from 8+) and teens during the fall, spring and summer seasons in the U.K., France, Germany and Switzerland.

Mander Portman Woodward (MPW) is a U.K. independent sixth-form college that prepares domestic and international students for A-level examinations that are required for admission to U.K. universities. MPW operates three colleges, in London, Cambridge and Birmingham.

KI also operates Dublin Business School in Ireland, a higher education institution, and Kaplan Open Learning in the U.K., an online learning institution. At the end of 2021, these institutions enrolled an aggregate of approximately 10,400 students.

In 2021, Kaplan Middle East, a financial training business operating in Dubai, United Arab Emirates and Saudi Arabia, taught approximately 3,900 students.

U.K. Immigration Regulations. Certain KI businesses serve a significant number of international students; therefore, the ability to sponsor international students to come to the U.K. is critical to these businesses. Pursuant to regulations administered by the United Kingdom Visas and Immigration Department (UKVI), the KI Pathways business is required to hold or operate Student Route sponsorship licenses for international students to be permitted to enter the U.K. to study the courses that KI Pathways delivers. One of the Kaplan Languages Group schools also has a Student Route license to enable it to teach international students, although students at these schools generally choose to enter the U.K. on a Visitor or Short Term Student visa as opposed to a Student Route visa.

Each Student Route license holder is required to have passed the annual Basic Compliance Assessment (BCA) and hold Educational Oversight accreditation, which requires a current and satisfactory full risk assessment, audit or review by the appropriate academic standards body. For the tenth consecutive year, all KI institutions have retained Educational Oversight accreditation, with high grades across colleges, and all Student Route annual BCA renewals have been approved with high scores in the core measurable requirements. Kaplan Languages Group has one U.K. English-language school listed on the Kaplan Student master license. The MPW schools each hold current Student and Child Student Route licenses and have performed well consistently, with good records in their Office for Standards in Education, Children's Services and Skills (OFSTED) and Independent Schools Inspectorate (ISI) Educational Oversight inspections.

The Higher Education and Research Act 2017 (HERA) significantly reformed the regulation of the higher education sector in the U.K., including the formation of a new regulator for England, the Office for Students (OfS). Students enrolled at Pathways institutions registered with the OfS are, subject to the institution meeting certain compliance requirements, given many of the same student privileges as students of universities in the U.K. All of KI's other higher education businesses in the U.K., excluding Glasgow International College and University of York International Pathway College, retained registration with the OfS in 2021 to ensure that they could continue operating and retain their Student Route sponsor licenses and/or continue to accept students funded by U.K. student loans. Glasgow International College, which is located in Scotland, is not regulated by the OfS and remains overseen by the Quality Assurance Agency for Higher Education (QAA). The University of York International

Pathway College forms part of the University of York's OfS registration. No assurance can be given that each KI business in the U.K. will be able to maintain its Student Route or Child Student route license and Educational Oversight or OfS/QAA registration. Maintenance of each of these approvals requires compliance with several core metrics that may be difficult to sustain. The loss by one or more institutions of either the Student Route or Child Student route license or Educational Oversight or OfS/QAA registration would have a material adverse effect on KI Europe's operating results.

Impact of Brexit. On June 23, 2016, the U.K. held a referendum in which voters approved a proposal that the U.K. leave the European Union (EU), commonly referred to as "Brexit." The U.K.'s withdrawal became effective on December 31, 2020. The impact of Brexit on KI over time will depend on the long-term effects of the terms of the U.K.'s withdrawal from the EU. If the U.K. is no longer viewed as a favorable study destination, KI's ability to recruit international students will be adversely impacted, which would materially adversely affect KI's results of operations and cash flows. In November 2021, the EU granted the U.K. an adequacy decision under the General Data Protection Regulation (GDPR) for an initial period of four years.

Revised U.K. immigration rules became effective on January 1, 2021, as the Brexit transition was completed. All international students, including EEA and Swiss students studying in the U.K. for more than six months, are required to obtain a Student Route visa unless they are undertaking an English language course in which case they can apply for a Visit Visa for up to six months or a Short Term Study visa of up to 11 months. Free movement ceased between the EEA (together with Switzerland) and the U.K.; students from these countries entering the U.K. are now subject to the same U.K. immigration rules as students from outside the EEA and Switzerland. EEA and Swiss nationals commencing a higher education course in England from August 2021 no longer qualify for home fee status or have access to financial support from Student Finance England. It is unclear how international student recruitment agents and prospective international students view the U.K. as a study destination after the introduction of any new immigration requirements, and the U.K.'s exit from the EU. The introduction of revised immigration rules has historically increased, and may continue to increase, KI's operating costs in the U.K. The introduction of new visa and other administrative requirements for entry into the U.K., Brexit and the perception of the U.K. as a less favorable study destination may have a materially adverse impact on KI's ability to recruit international students and KI's results of operations and cash flows.

Asia Pacific. In the Asia Pacific region, Kaplan operates businesses primarily in Singapore, Australia, New Zealand and the People's Republic of China, including the Hong Kong Special Administrative Region (Hong Kong).

In Singapore, Kaplan operates two business units: Kaplan Higher Education and KHEA-Genesis (which comprises the former Kaplan Financial and Kaplan Professional business units). During 2021, the Kaplan Higher Education and KHEA-Genesis (Financial) divisions served more than 9,100 students from Singapore and approximately 3,400 students from other countries throughout Asia and Western Europe. KHEA-Genesis (Professional) provided short courses to approximately 400 professionals, managers, executives and businesspeople in 2021.

Kaplan Singapore's Higher Education business provides students with the opportunity to earn bachelor's and postgraduate degrees in various fields on either a part-time or full-time basis. Kaplan Singapore's students receive degrees from affiliated educational institutions in Australia, Ireland and the U.K. In addition, this division offers pre-university and diploma programs.

Kaplan Singapore's KHEA-Genesis (Financial) business provides preparatory courses for professional qualifications in accountancy and finance, such as the Association of Chartered Certified Accountants (ACCA) and Chartered Financial Analyst (CFA). Kaplan Singapore's Professional business, through Kaplan Learning Institute, an authorized SkillsFuture Singapore (SSG) Approved Training Organization (ATO), provided professionals with various skills training through workforce skills qualifications (WSQ) courses. Kaplan Learning Institute ceased offering such courses and voluntarily deregistered Kaplan Learning Institute as a private education institution on March 9, 2020, following a notice in June 2019 from SSG suspending Kaplan Singapore Professional's WSQ ATO status and revoking accreditation and funding for all WSQ courses effective July 1, 2019. These actions have adversely affected and will continue to adversely affect Kaplan Singapore's revenues and operating results.

On October 7, 2020, Kaplan Higher Education Academy (KHEA) was granted approval by SSG to deliver WSQ courses as an ATO for a period of two years. KHEA-Genesis (Professional) started offering WSQ courses in the second quarter of 2021.

In June 2021, the Committee for Private Education (CPE) in Singapore instructed Kaplan Singapore to cease new enrollments for three marketing diploma programs on both a full and part-time basis due to noncompliance with minimum entry level requirements for admission and to teach out existing students in these programs. On August 23, 2021, the CPE issued the same instructions with respect to the Kaplan Foundation diploma and four information technology diploma programs on both a full and part-time basis. In November 2021, the CPE issued the same instructions with respect to a further 23 full-time or part-time diploma programs. Post regulatory action, Kaplan Singapore is currently still able to offer 449 programs that are registered with the CPE, out of which there are 16 diplomas, 361 bachelors and the balance of which are certificate and postgraduate courses. Kaplan Singapore will

apply for re-registration of diploma programs in 2022. The impact from regulatory actions by the CPE will have a significant adverse impact on Kaplan Singapore's revenues, operating results and cash flows in the future. No assurance can be given that applications for re-registration of the impacted programs will be successful. An inability to re-register one or more impacted programs could have a further material adverse effect on Kaplan Singapore's revenues, operating results and cash flows.

In Australia, Kaplan delivers a broad range of financial services programs from certificate level through master's level, together with professional development offerings through Kaplan Professional, as well as higher education programs in business, accounting, business analytics, hospitality, and tourism and management through Kaplan Business School. In 2021, these businesses provided courses to approximately 4,500 students through face-to-face and online or hybrid classroom programs (within Kaplan Business School) and approximately 30,000 students through online or distance-learning programs offered by Kaplan Professional. In 2021, Kaplan Professional also had approximately 34,000 subscribers for Ontrack, its continuing professional development platform for financial services professionals.

Kaplan Australia's English-language business, which operates across five locations in Australia and one location in New Zealand, taught approximately 300 students in 2021. In July 2021, after the last student completed their course, the New Zealand English language business suspended its operations indefinitely. During 2021, due to the ongoing border closure, the Australian English businesses faced significant falls in student numbers leading to a consolidation of the four schools into one, with just the Sydney school offering online classes to a small number of remaining students. The Kaplan Australia Pathways business is also part of KI Pathways. In 2021, it consisted of Murdoch Institute of Technology, the University of Newcastle College of International Education and the University of Adelaide College, and offered face-to-face pathways and foundational education in 2021 to approximately 1,000 students wishing to enter Murdoch University, the University of Newcastle and the University of Adelaide. The contract with Murdoch University to run the Murdoch Institute of Technology expired in June 2021. In January 2021, Kaplan Australia launched the University of Newcastle College of International Education, as part of a seven-year collaboration with the University of Newcastle. In March 2021, the University of Adelaide College commenced delivery of teaching. In October 2021, Kaplan International New Zealand obtained approval to establish a new pathways college, Massey University College, which is scheduled to begin diploma and graduate diploma courses in July and October 2022, respectively. Kaplan Australia also owns Red Marker Pty Ltd., a machine learning and artificial intelligence-based provider of legal risk detection for digital, advertising and marketing content. Red Marker supports a wide variety of industries, including financial services, telecoms, automotive, pharmaceutical, food and beverage, media and government bodies. Red Marker's Artemis product detects potentially noncompliant content as it is being created, helping advisers and licensees to identify and remediate compliance risks.

In Hong Kong, Kaplan operates three main business units: Kaplan Financial, Kaplan Language Training and Kaplan Higher Education, serving approximately 10,600 students annually.

Kaplan Hong Kong's Financial division delivers preparatory courses to approximately 8,900 students and business executives wishing to earn professional qualifications in accountancy, financial markets designations and other professional fields.

Hong Kong's Language Training division offers test preparation for both overseas study and college applications, including TOEFL, IELTS, SAT and GMAT, to approximately 500 students.

Kaplan Hong Kong's Higher Education division offers both full-time and part-time programs to approximately 1,200 students studying for degrees from leading Western universities. Students earn doctorate, master's and bachelor's degrees in Hong Kong. Kaplan also offers a proprietary pre-college diploma program through the Kaplan Business and Accountancy School.

In 2014, Kaplan Holdings Limited (Hong Kong) signed a joint venture agreement with CITIC Press Corporation. Under the terms of the agreement, the parties incorporated a joint venture company, Kaplan CITIC Education Co. Limited, 49% of which is owned by Kaplan Holdings Limited. The joint venture company is carrying out publishing and distribution of Kaplan Financial training products in the People's Republic of China.

Each of Kaplan's international businesses is subject to unique and often complex regulatory environments in the countries in which they operate, and the degree of consistency in the application and interpretation of such regulations can vary significantly in certain jurisdictions.

Kaplan North America

As previously discussed, in 2020 Kaplan combined its segments into one business named Kaplan North America (KNA), comprised of two segments, Kaplan North America Higher Education (comprising primarily former Kaplan Higher Education (KHE) products and services) and Kaplan North America Supplemental Education (comprising primarily former Kaplan Test Preparation (KTP) and former Kaplan Professional (KP) products and services).

Kaplan North America Higher Education

Until March 22, 2018, through the KHE segment, Kaplan provided postsecondary education services to students through Kaplan University's (KU) online and fixed-facility colleges. KU provided a wide array of certificate, diploma and degree programs designed to meet the needs of students seeking to advance their education and career goals. On March 22, 2018, certain subsidiaries of Kaplan contributed the institutional assets and operations of KU to a new university: an Indiana nonprofit, public-benefit corporation affiliated with Purdue University, known as Purdue University Global (Purdue Global). As part of the transfer to Purdue Global, KU transferred students, academic personnel, faculty and operations, property leases for KU's campuses and learning centers, and Kaplan-owned academic curricula and content related to KU courses. Kaplan also indemnified Purdue for certain pre-closing liabilities. At the same time, KU and Purdue Global entered into a Transition and Operations Support Agreement, which was amended on July 29, 2019 (TOSA), pursuant to which KNA provides key non-academic operations support to Purdue Global. Kaplan received nominal upfront cash consideration upon the transfer of the institutional assets and operations of KU. The combination of the KHE, KTP and KP segments into one KNA business did not change Kaplan's or Purdue Global's obligations under the TOSA.

The transfer of KU did not include any of the assets of the KU School of Professional and Continuing Education (now managed by KNA), which provides professional training and exam preparation for professional certifications and licensures. The transfer also did not include the transfer of other Kaplan businesses.

KNA also provides non-academic operations support services for online pre-college, certificate, undergraduate and graduate programs to institutions such as Purdue University, Wake Forest University, and Lynn University. These are the same types of services and operations previously provided by the KHE segment which is now a part of the KNA business.

Transition and Operations Support Agreement (TOSA). Purdue Global operates largely online as an Indiana public university affiliated with Purdue University. The operations support activities that KNA provides to Purdue Global (and other institutions of higher education, including Purdue University) include technology support, help-desk functions, human resources support for transferred faculty and employees, admissions support, financial aid processing, marketing and advertising, back-office business functions, certain test preparation, and domestic and international student recruiting services.

Pursuant to the TOSA, KNA is not entitled to receive any reimbursement of costs incurred in providing support functions, or any fee, unless and until Purdue Global has first covered all of its operating costs (subject to a cap). If Purdue Global achieves cost efficiencies in its operations, KNA may be entitled to an additional payment equal to 20% of such cost efficiencies (Purdue Efficiency Payment). In addition, during each of Purdue Global's first five years, prior to any payment to KNA, Purdue Global is entitled to a priority payment of \$10 million per year beyond costs (Purdue Priority Payment). To the extent that Purdue Global's revenue is insufficient to pay the Purdue Priority Payment, KNA is required to advance an amount to Purdue Global to cover such insufficiency. Upon closing of the transaction, Kaplan paid to Purdue Global an advance in the amount of \$20 million, representing, and in lieu of, a Purdue Priority Payment for each of the fiscal years ending June 30, 2019, and June 30, 2020.

To the extent that there is sufficient revenue to pay the Purdue Efficiency Payment, Purdue Global will be reimbursed for its operating costs (subject to a cap) and will be paid the Purdue Priority Payment. To the extent that there is remaining revenue, KNA will then be reimbursed for its operating costs (subject to a cap) of providing the support activities. If KNA achieves cost efficiencies in its operations, then KNA may be entitled to an additional payment equal to 20% of such cost efficiencies (KNA Efficiency Payment). The TOSA, as amended, reflects the parties' intent that, subject to available cash (calculated as cash balance minus cash deficiencies, if any, projected for the next six-month period based on applicable budget), KNA is entitled to receive a fee equal to 12.5% (increasing to 13% from June 30, 2023, through June 30, 2027) of Purdue Global's revenue, which served as the deferred purchase price for the transfer of KU (Deferred Purchase Price). Separately, KNA is entitled to a fee for services provided equal to 8% of KNA's costs of providing such services to Purdue Global (Contributor Service Fee). KNA's Contributor Service Fee is deducted from any amounts owed to KNA for the Deferred Purchase Price. Together these payments are known as "Contributor Compensation." In each case, the Contributor Compensation remains subject to available cash and the limitations of payment carry over from year to year.

After the first five years of the TOSA, KNA and Purdue Global will be entitled to payments in a manner consistent with the structure described above, except that (i) Purdue Global will no longer be entitled to the Purdue Priority Payment and (ii) to the extent that there are sufficient revenues after payment of the KNA Efficiency Payment (if any), Purdue Global will be entitled to an annual payment equal to 10% of the remaining revenue after the KNA Efficiency Payment (if any) is paid, subject to certain other adjustments.

The TOSA has a 30-year initial term, which will automatically renew for five-year periods unless terminated. After the sixth year, Purdue Global has the right to terminate the agreement upon payment of an early termination fee equal to 125% of Purdue Global's total revenue earned during the preceding 12-month period, which payment would be made pursuant to a 10-year note, and at the election of Purdue Global, it may receive for no additional

consideration certain tangible assets used by KNA exclusively to provide the support activities pursuant to the TOSA. At the end of the 30-year term, if Purdue Global does not renew the TOSA, Purdue Global will be obligated to make a final payment of 75% of its total revenue earned during the preceding 12-month period, which payment will be made pursuant to a 10-year note, and at the election of Purdue Global, it may receive for no additional consideration certain assets used by KNA exclusively to provide the support activities pursuant to the TOSA. Either party may terminate the TOSA at any time if Purdue Global generates (i) \$25 million in cash operating losses for three consecutive years or (ii) aggregate cash operating losses greater than \$75 million at any point during the initial term. Operating loss is defined as the amount by which the sum of (1) Purdue Global's and KNA's respective costs in performing academic and support functions and (2) the \$10 million Purdue Priority Payment in each of the first five years following March 22, 2018, exceeds the revenue Purdue Global generates for the applicable fiscal year. Upon termination for any reason, Purdue Global will retain the assets that Kaplan contributed pursuant to the TOSA. Each party also has certain termination rights in connection with a material default or material breach of the TOSA by the other party. Short of termination, Purdue Global has the right to take over (in-source) certain back-office support functions at any time with nine-months' notice. Those include technology support, human resources, facility and property management, finance and accounting, communications, and default management. In 2022 Purdue Global began working with KNA to provide certain human resources, finance and accounting, facility management, and communications services itself, in-house.

Regulatory Environment. KNA no longer owns or operates KU or any other institution participating in student financial aid programs created under Title IV of the U.S. Federal Higher Education Act of 1965 (Higher Education Act), as amended (Title IV). KNA provides services to Purdue Global, Purdue University, Wake Forest University, Lynn University and other Title IV participating institutions that may require KNA to comply with certain laws and regulations, including applicable statutory provisions of Title IV. KNA also provides financial aid services to Purdue Global and, as such, meets the definition of a "third-party servicer" contained in the Title IV regulations to Purdue Global (but no other institution as of the date of this report). As a third-party servicer, KNA is subject to applicable statutory provisions of Title IV and U.S. Department of Education (ED) regulations that, among other things, require KNA to be jointly and severally liable with its Title IV participating client institution(s) to the ED for any violation by such client institution of any Title IV statute or ED regulation or requirement. KNA is also subject to other federal and state laws, including, but not limited to, federal and state consumer protection laws and rules prohibiting unfair or deceptive marketing practices, data privacy, data protection and information security requirements established by federal state and foreign governments, including for example the Federal Trade Commission and the applicable provisions of the Family Educational Rights and Privacy Act regarding the privacy of student records. KNA's failure to comply with these and other federal and state laws and regulations could result in adverse consequences to KNA's business, including, for example:

- The imposition on KNA and/or Kaplan of fines, other sanctions or liabilities, including, without limitation, repayment obligations for Title IV funds to the ED or the termination or limitation on Kaplan's eligibility to provide services as a third-party servicer to any Title IV participating institution;
- Adverse effects on KNA's business and results of operations from a reduction or loss in KNA's revenues under the TOSA or any other agreement with any Title IV participating institution if a client institution loses or has limits placed on its Title IV eligibility, accreditation, operations or state licensure, or is subject to fines, repayment obligations or other adverse actions due to noncompliance by KNA (or the institution) with Title IV, accreditor, federal or state agency requirements;
- Liability under the TOSA or any other agreement with any Title IV participating institution for noncompliance with federal, state or accreditation requirements arising from KNA's conduct; and
- Liability for noncompliance with Title IV or other federal or state laws and regulations occurring prior to the transfer of KU to Purdue.

The laws, regulations and other requirements applicable to KNA or any KNA client institutions are subject to change and to interpretation. For example, a Negotiated Rulemaking began in October 2021 that covered, in part, rules related to the borrower defense to repayment adjudication process and recovery from institutions, closed school loan discharges, disability loan discharges, public loan forgiveness, income driven repayment plans and arbitration agreements. As part of this current Rulemaking, in a session that began in January 2022, the ED also proposed a change to the Title IV definition of "Nonprofit" institution to generally exclude from that definition any institution that is an obligor on a debt owed to a former owner of the institution or maintains a revenue-based service agreement with a former owner of the institution. Such regulatory changes as well as those described above could subject Purdue Global to additional regulatory requirements. Any resulting new rules or changes to existing rules are not likely to be effective until July 1, 2023.

Incentive compensation. Under the ED's incentive compensation rule, an institution participating in Title IV programs may not provide any commission, bonus or other incentive payment to any person or entity engaged in any student recruiting or admission activities or in making decisions regarding the awarding of Title IV funds if such

payment is based directly or indirectly on success in securing enrollments or financial aid. KNA is a third party providing bundled services to Title IV participating institutions that include recruiting and, in the case of Purdue Global, financial aid services. As such, KNA is also subject to the incentive compensation rules as applied to the institutions it serves and cannot provide any commission, bonus or other incentive payment to any covered employees, subcontractors or other parties engaged in certain student recruiting, admission or financial aid activities based on success in securing enrollments or financial aid. In addition, tuition revenue sharing payments to KNA under the TOSA (as well as any other agreement with any Title IV participating institution) must comply with revenue sharing guidance provided by the ED related to bundled services agreements. For more information, see Item 1A. Risk Factors. Failure to Comply with the ED's Title IV Incentive Compensation Rule Could Subject Kaplan to Liabilities, Sanctions and Fines.

Misrepresentations. A Title IV participating institution is required to comply with the ED regulations related to misrepresentations and with related federal and state laws. These laws and regulations are broad in scope and may extend to statements by servicers, such as KNA, that provide marketing or certain other services to such institutions. The laws and regulations may also apply to KNA's employees and agents, with respect to statements addressing the nature of an institution's programs, financial charges or the employability of its graduates. Additionally, failure to comply with these and other federal and state laws and regulations regarding misrepresentations and marketing practices could result in the imposition on KNA or its client institutions of fines, other sanctions or liabilities, including, without limitation, federal student aid repayment obligations to the ED, the termination or limitation on KNA's eligibility to provide services as a third-party servicer to Title IV participating institutions, the termination or limitation of a client institution's eligibility to participate in the Title IV programs, or legal action by students or other third parties. A violation of misrepresentation regulations or other federal or state laws and regulations applicable to the services KNA provides to its client institutions arising out of statements by KNA, its employees or agents could require KNA to pay the costs associated with indemnifying its client institutions from applicable losses resulting from the violation and could result in fines, other sanctions or liabilities imposed on KNA.

Compliance by client institutions with Title IV program requirements and other federal, state and accreditation requirements. KNA currently provides services to education institutions that are heavily regulated by federal and state laws and regulations and subject to extensive accrediting body requirements. Presently, a material portion of KNA's revenues are attributable to deferred purchase and service fees it receives under the TOSA, which are dependent upon revenues generated by Purdue Global and dependent upon Purdue Global's eligibility to participate in the Title IV federal student aid program. To maintain Title IV eligibility, Purdue Global and KNA's other client institutions must be certified by the ED as eligible institutions, maintain authorizations by applicable state education agencies and be accredited by an accrediting commission recognized by the ED. Purdue Global and KNA's other client institutions must also comply with the extensive statutory and regulatory requirements of the Higher Education Act and other state and federal laws and accrediting standards relating to their financial aid management, educational programs, financial strength, disbursement and return of Title IV funds, facilities, recruiting practices, representations made by the school and other parties, and various other matters. Additionally, Purdue Global and other client institutions are subject to laws and regulations that, among other things, limit student default rates on the repayment of Title IV loans, permit borrower defenses to repayment of Title IV loans based on certain conduct of the institution, establish specific measures of financial responsibility and administrative capability, regulate the addition of new campuses and programs and other institutional changes; require compliance with state professional licensure board requirements to the extent applicable to institutional programs and require state authorization and institutional and programmatic accreditation. If the ED finds that Purdue Global or other client institutions have failed to comply with Title IV requirements or improperly disbursed or retained Title IV program funds, it may take one or more of a number of actions, including, but not limited to:

- fining the school;
- requiring the school to repay Title IV program funds;
- limiting or terminating the school's eligibility to participate in Title IV programs;
- initiating an emergency action to suspend the school's participation in Title IV programs without prior notice or opportunity for a hearing;
- transferring the school to a method of Title IV payment that would adversely affect the timing of the institution's receipt of Title IV funds;
- requiring the school to submit a letter of credit;
- denying or refusing to consider the school's application for renewal of its certification to participate in the Title IV programs or for approval to add a new campus or educational program; and
- referring the matter for possible civil or criminal investigation.

If Purdue Global or other client institutions lose or have limits placed on their Title IV eligibility, accreditation or state licensure, or if they are subject to fines, repayment obligations or other adverse actions due to their or KNA's noncompliance with Title IV regulations, accreditor or state agency requirements or other state or federal laws, KNA's financial results of operations could be adversely affected. After acquiring KU, on August 3, 2018, Purdue Global received an updated Provisional Program Participation Agreement (PPPA) from the ED which is necessary for continued participation in the federal Title IV programs after the change in ownership from Kaplan to Purdue. The PPPA expired on June 30, 2021, but continues in effect until the ED issues the final approved Program Participation Agreement. On October 15, 2021, Purdue Global received from the ED a new PPPA granting provisional certification until June 30, 2022. Under this PPPA, Purdue Global must apply for and receive approval for expansion or any substantial change before it may award, disburse or distribute Title IV funds based on the substantial change. Substantial changes generally include, but are not limited to: (a) establishment of an additional location; (b) increase in the level of academic offering beyond those listed in the institution's Eligibility and Certification Approval Report (ECAR); (c) addition of any educational program (including degree, non-degree or short-term training programs), or (d) the addition of any new degree program. In addition, the institution must pay any liabilities found in a currently open program review prior to the expiration of the PPPA. The provisional certification ends upon the ED's notification to the institution of the ED's decision to grant or deny a six-year certification to participate in the Title IV, Higher Education Act (HEA) programs.

Compliance, regulatory actions, reviews and litigation. KNA and its client institutions are subject to reviews, audits, investigations and other compliance reviews conducted by various regulatory agencies and auditors, including, among others, the ED, the ED's Office of the Inspector General, accrediting bodies and state and various other federal agencies. These compliance reviews could result in findings of noncompliance with statutory and regulatory requirements that could, in turn, result in the imposition of fines, liabilities, civil or criminal penalties or other sanctions against KNA and its client institutions. Separately, if KNA provides financial aid services to more than one Title IV participating institution (i.e., one or more participating institutions in addition to Purdue Global), it will be required to arrange for an independent auditor to conduct an annual Title IV compliance audit of KNA's compliance with applicable ED requirements. KNA's client institutions are also required to arrange for an independent auditor to conduct an annual Title IV compliance audit of their compliance with applicable ED requirements, including requirements related to services provided by KNA.

On May 6, 2021, Kaplan received a notice from the ED that it would be conducting a fact-finding process pursuant to the borrower defense to repayment (BDTR) regulations to determine the validity of more than 800 BDTR claims and a request for documents related to several of Kaplan's previously owned schools. Beginning in July 2021, Kaplan started receiving the claims and related information requests. In total, Kaplan received 1,449 borrower defense applications that seek discharge of approximately \$35 million in loans. Most claims received are from former KU students. The ED's process for adjudicating these claims is subject to the borrower defense regulations but it is not clear to what extent the ED will exclude claims based on the underlying statutes of limitations, evidence provided by Kaplan, or any prior investigation related to schools attended by the student applicants. Kaplan believes it has defenses that would bar any student discharge or school liability including that the claims are barred by the applicable statute of limitations, unproven, incomplete and fail to meet regulatory filing requirements. Kaplan expects to vigorously defend any attempt by the ED to hold Kaplan liable for any ultimate student discharges and is responding to all claims with documentary and narrative evidence to refute the allegations, demonstrate their lack of merit, and support the denial of all such claims by the ED. If the claims are successful, the ED may seek reimbursement for the amount discharged from Kaplan. If the ED initiates a reimbursement action against Kaplan following approval of former students' BDTR applications, Kaplan may be subject to significant liability.

On September 3, 2015, Kaplan sold to Education Corporation of America (ECA) substantially all of the assets of the prior KHE Campuses. The transaction included the transfer of certain real estate leases that were guaranteed or purportedly guaranteed by Kaplan. ECA is currently in receivership, has terminated all of its higher education operations and has sold most, if not all, of its remaining assets (including New England College of Business). Additionally, the receiver has repudiated all of ECA's real estate leases. Although ECA is required to indemnify Kaplan for any amounts Kaplan must pay due to ECA's failure to fulfill its obligations under the real estate leases guaranteed by Kaplan, ECA's current financial condition and the amount of secured and unsecured creditor claims outstanding against ECA make it unlikely that Kaplan will recover from ECA. In the second half of 2018, the Company recorded an estimated \$17.5 million in losses on guarantor lease obligations in connection with this transaction in other non-operating expense. The Company recorded an additional estimated \$1.1 million in non-operating expense in 2019, \$1 million in non-operating expense in 2020, and \$1.1 million in non-operating expense in 2021; in each case consisting of legal fees and lease costs. The Company continues to monitor the status of these obligations.

In addition, Kaplan could be the subject of future compliance reviews or lawsuits related to formerly owned KU and KHE schools in connection with the pre-sale conduct of such schools that could result in monetary liabilities or fines or other sanctions against Kaplan.

Kaplan North America Supplemental Education

In 2021, KNA's supplemental education included all products of the former KTP and KP segments, including exam preparation, professional licensure and certification, and corporate training and continuing education. KNA offers a wide array of programs and services across various markets focusing on lifetime value creation and professional lifecycles. These markets are discussed below.

Precollege and Social Sciences. KNA provides exam preparation for high school and graduate students under the Kaplan Test Prep, Manhattan Prep and Barron's Educational Series brands for a broad range of standardized, high-stakes tests, including the SAT, ACT, GMAT and GRE. KNA also provides admissions consulting, tutoring and other advisory services.

Healthcare. KNA provides exam preparation for the medical college admissions test (MCAT) and professional licensure exam preparation for physicians (USMLE), nurses (NCLEX), pharmacists (NAPLEX), dentists (NBDE) and physician assistants (PANCE). Under the brand i-Human Patients, KNA offers online, simulated patient interaction training for medical health professionals, which is typically purchased by medical, nursing and physician assistant schools. KNA's USMLE in-person programs are accredited and Student and Exchange Visitor Program (SEVP) approved for F-1 students and operate under the Kaplan Prep & Achieve brand. In 2021, KNA acquired a continuing medical education business for physicians, nurses and pharmacists which is accredited by Joint Accreditation for Interprofessional Continuing Education and operated under the brand Projects in Knowledge.

Legal, Government and Social Justice. KNA offers exam preparation for the law school admissions test (LSAT) and state bar licensure exam preparation for lawyers in 50 jurisdictions through Kaplan Bar Review and Preliminary Multistate Bar Review (PMBR). For the military, KNA offers the Armed Services Vocational Aptitude Battery (ASVAB) that measures developed abilities and helps predict future academic and occupational success in the military and in 2021, Kaplan acquired Bluejacketeer which offers practice test questions for Navy advancement exams on a subscription basis.

Business and Financial. Professional licensure products are operated under the brands Dearborn Real Estate Education, Kaplan Real Estate Education, Bob Hogue School of Real Estate, Kaplan Financial Education, and Kaplan Schweser. KNA helps professionals obtain certifications, licenses and designations to enable them to advance their careers. Additionally, KNA collaborates with organizations to solve their talent management challenges through customized corporate learning and development solutions. Through live and online instruction, KNA provides professional license test preparation, licensing and continuing education, as well as leadership and professional development programs to businesses and individuals in the accounting, insurance, securities, real estate, financial services and wealth management areas.

Technology and Engineering. KNA offers data science and analytics online courses and training for corporations under the brand name Metis. In 2022, Metis expects to focus on providing courses and programs to educational institutions for their students rather than direct to student sales. KNA also offers licensing exam preparation for engineers, architects and designers under the brand name PPI.

Publishing. Kaplan Publishing focuses on Kaplan Test Prep, Barron's, and Manhattan Prep test preparation and reference resources sold through retail channels. At the end of 2021, Kaplan Publishing had 1,182 products available in print and digital formats, including 368 digital products. In total, KNA test prep prepares students for more than 233 standardized tests, the large majority of which are U.S. focused.

In 2021, KNA served over 220,000 students through its exam preparation programs and related products (such as tutoring, online question banks and online practice tests), excluding sales of test prep books by third-party retailers. KNA exam preparation programs are taught online and at Kaplan-branded locations and at numerous other locations, such as hotels, high schools, universities and companies throughout the U.S., including Puerto Rico, as well as in Canada, Mexico and the U.K. KNA also licenses material for certain programs to third parties. Since the end of the first quarter of 2020, virtually all KNA exam preparation programs have been offered online, typically in a live online classroom or a self-study format, while some programs have continued in person. Private tutoring services are provided online and, in select markets, in person. In 2022, KNA expects to offer more in-person courses for select exam preparation offerings.

In 2021, KNA served approximately 2,700 business-to-business clients including approximately 120 Fortune 500 companies. In 2021, approximately 218,000 students used KNA's professional licensure exam preparation offerings.

TELEVISION BROADCASTING

Graham Media Group, Inc. (GMG), a subsidiary of the Company, owns seven television stations located in Houston, TX; Detroit, MI; Orlando, FL; San Antonio, TX; Jacksonville, FL; and Roanoke, VA, as well as SocialNewsDesk, a provider of social media management tools designed to connect newsrooms with their users. The following table sets forth certain information with respect to each of the Company's television stations:

Station, Location and Year Commercial Operation Commenced	National Market Ranking (a)	Primary Network Affiliation	Expiration Date of FCC License	Expiration Date of Network Agreement	Total Commercial Stations in DMA (b)
KPRC, Houston, TX, 1949	9th	NBC	Aug. 1, 2022	Dec. 31, 2022	17
WDIV, Detroit, MI, 1947	15th	NBC	Oct. 1, 2029	Dec. 31, 2022	10
WKMG, Orlando, FL, 1954	17th	CBS	Feb. 1, 2029	June 30, 2022	18
KSAT, San Antonio, TX, 1957	31st	ABC	Aug. 1, 2022	March 31, 2026	15
WJXT, Jacksonville, FL, 1947	43rd	None	Feb. 1, 2029	—	9
WCWJ, Jacksonville, FL, 1966	43rd	CW	Feb. 1, 2029	Aug. 31, 2025	9
WSLS, Roanoke, VA, 1952	71st	NBC	Oct. 1, 2028	Dec. 31, 2022	8

(a) Source: 2021/2022 Local Television Market Universe Estimates, the Nielsen Company, November 2021 and January 1, 2022, based on television homes in DMA (see note (b) below).

(b) Full-power commercial TV stations, Designated Market Area (DMA) is a market designation of the Nielsen Company that defines each television market exclusive of another, based on measured viewing patterns.

Revenue from broadcasting operations is derived primarily from the sale of advertising time to local, regional and national advertisers. In 2021, advertising revenue accounted for 57.7% of the total for GMG's operations. Advertising revenue is sensitive to a number of factors, some specific to a particular station or market and others more general in nature. These factors include a station's audience share and market ranking; seasonal fluctuations in demand for airtime; annual or biannual events, such as sporting events and political elections; and broader economic trends, among others.

Regulation of Broadcasting and Related Matters

GMG's television broadcasting operations are subject to the jurisdiction of the U.S. Federal Communications Commission (FCC) under the U.S. Federal Communications Act of 1934, as amended (the Communications Act). Each GMG television station holds an FCC license that is renewable upon application for an eight-year period. As shown in the table above, the current terms of the GMG station licenses expire in 2022 through 2029. GMG expects the FCC to grant future renewal applications for its stations in due course, but cannot provide any assurances that the FCC will do so.

Digital Television (DTV) and Spectrum Issues. Each GMG station (and each full-power television station nationwide) broadcasts only in a digital format, which allows transmission of HDTV programming and multiple channels of standard-definition television programming (multicasting).

Television stations may receive interference from a variety of sources, including interference from other broadcast stations, that is below a threshold established by the FCC. That interference could limit viewers' ability to receive television stations' signals. The amount of interference to stations could increase in the future because of the FCC's decision to allow electronic devices, known as "white space" devices, to operate in the television frequency band on an unlicensed basis on channels not used by nearby television stations.

In November 2017, the FCC voted to adopt rules authorizing broadcast television stations to voluntarily transition to a new technical standard, called Next Generation TV or ATSC 3.0. The new standard is designed to allow broadcasters to provide consumers with better sound and picture quality; hyper-localized programming, including news and weather; enhanced emergency alerts and improved mobile reception. The standard allows for the use of targeted advertising and more efficient use of spectrum, for example, by allowing for more multicast streams to be aired on the same six-megahertz channel. ATSC 3.0 is not backward compatible with existing television equipment, and the FCC's rules require full-power television stations that transition to the new standard to continue broadcasting a signal in the existing DTV standard until the FCC phases out the requirement in a future order. A transitioning station's DTV-formatted content must be substantially similar to the programming aired on its ATSC 3.0 channel until July 17, 2023, five years from the date the rules in the original 2017 FCC order were finalized. In June 2020, the FCC re-affirmed this sunset date, but stated that it would open a proceeding one year prior to the sunset date to determine whether the date should be extended.

GMG launched its first ATSC 3.0 stream in December 2020 for station WDIV-TV in Detroit; prior to the launch, WDIV-TV had applied for and was granted authority by the FCC to effectuate an ATSC 3.0 simulcasting arrangement with WMYD (licensed to Scripps Broadcasting Holdings, LLC) in the Detroit area. In 2021, two GMG

stations each entered into simulcasting arrangements. First, in June 2021, GMG station WKMG-TV (Orlando) applied for and was granted authority by the FCC to effectuate an ATSC 3.0 simulcasting arrangement with another station in the Orlando area (WRBW-DT, licensed to Fox Television Stations, LLC). The station's ATSC 3.0 stream was then launched along with the rest of the market on June 30, 2021. Second, in November 2021, GMG station KPRC-TV (Houston) applied for and was granted authority by the FCC to effectuate an ATSC 3.0 simulcasting arrangement with another station in the Houston area (KIAH, licensed to Tribune Media Company). The station's ATSC 3.0 stream was then launched on December 2, 2021. As required by the FCC rules, each of the respective station's stream is in addition to such station's current DTV stream, which viewers continue to be able to view.

In connection with the transition to ATSC 3.0, which is an internet protocol-based standard, the FCC has updated its rules to reflect how broadcasters may use their spectrum in non-traditional ways (Broadcast Internet). In June 2020, the FCC issued a Declaratory Ruling clarifying that the television ownership rules would not apply to the lease of broadcast spectrum for Broadcast Internet purposes, and in December 2020, the FCC voted to adopt rules that specifically apply its existing framework regarding derogation of service and use of spectrum for ancillary and supplementary purposes to Broadcast Internet; i.e., a broadcaster must continue to air at least one free, over-the-air television signal in SDTV format, and if a broadcaster opts to use its spectrum for Broadcast Internet services, it will incur a five percent fee based on the gross revenue received by the broadcaster. It is too soon to predict how the use of broadcast spectrum for Broadcast Internet services could impact the industry.

In April 2017, the FCC announced the completion of an incentive auction in which certain broadcast television stations bid to relinquish spectrum or move to a different spectrum band in exchange for a share of the revenues obtained by auctioning the reallocated broadcast spectrum for use by wireless broadband providers. None of GMG's stations participated in the incentive auction. However, certain GMG stations—specifically, WDIV, WSL, WCWJ and WJXT—were required to move to new channel allotments in order to free up a nationwide block of spectrum for wireless broadband use. The FCC adopted rules requiring this "repacking" of broadcast television stations to new channels to be completed within 39 months after the incentive auction closed, with earlier deadlines set for particular stations in order to stagger the transition to new channels. The WSL transition was completed on September 11, 2019, the WCWJ and WJXT transitions were completed on January 16, 2020, and the WDIV transition was completed on September 16, 2020 (following tolling of its assigned deadline due to delays related to the COVID-19 pandemic).

GMG's repacked stations have been eligible to seek reimbursement for repacking-related costs and have been receiving reimbursement payments through the FCC's process. Congress has capped the overall funds available for repack-related reimbursements. The initial legislation authorizing the incentive auction provided only \$1.75 billion in total for all such reimbursements. Congress later made available an additional \$1 billion in reimbursement funds, with \$600 million in available funds allocated to 2018 and \$400 million allocated to 2019.

To date, each repacked commercial television station, including each of the repacked GMG stations, has been allocated a reimbursement amount equal to approximately 94% of the station's estimated repacking costs, as verified by the FCC's fund administrator. Receipt of the allocated funds is subject to FCC approval of particular requests for reimbursement of actual costs fully incurred. By October 8, 2021, stations that transitioned in the first half of the 39-month post-auction repack had to submit all remaining invoices for incurred expenses. WSL, which transitioned in the first half of the post-auction repack, complied with this deadline. The remaining GMG stations must submit all remaining invoices, to the extent there are any, in 2022. As of December 31, 2021, the repacked GMG stations have received approximately \$19.6 million in FCC reimbursements since 2018.

In March 2020, the FCC announced the reformation of the 3.7-4.2 GHz band (C-band) through a public auction of the lower 280 megahertz of these frequencies (3.7-3.98 GHz). This auction, which concluded February 2021, allows winning bidders to use the 3.7-3.98 GHz frequencies for wireless broadband services. However, this spectrum reallocation requires the relocation of incumbent C-band satellite operations—including those used to deliver programming to television stations—to a "repacked" 4.0-4.2 GHz band. In exchange for a portion of the auction proceeds, satellite operators have chosen to relocate their operations pursuant to an "accelerated" relocation timeline.

GMG's television stations receive programming from the relocating satellite operators, and this requires the transition of operations at GMG stations through the installation of antenna filters, repointing and retuning of antennas, and other activities. Although GMG elected to have the satellite operators manage these transition efforts, GMG coordinated with the satellite operators and submitted various filings to the FCC to confirm the transition eligibility of its stations and ensure the stations remain protected from harmful interference post-transition.

The first phase of the "accelerated" C-band transition concluded December 5, 2021, and the deadline for the second phase is December 5, 2023. GMG anticipates that the satellite operators and the FCC may request additional information about GMG's stations to complete the second phase of the transition.

Carriage of Local Broadcast Signals. Congress has established, and periodically has extended or otherwise modified, various statutory copyright licensing regimes governing the local and distant carriage of broadcast television signals on cable and satellite systems. The Company cannot predict whether or how Congress may maintain or modify these regimes in the future, or what net effect such decisions would have on the Company's broadcast operations or on the Company overall.

The Communications Act and the FCC rules allow a commercial television broadcast station, under certain circumstances, to insist on mandatory carriage of its signal on cable systems serving the station's market area (must carry). Alternatively, stations may elect, at three-year intervals, to forgo must-carry rights and allow their signals to be carried by cable systems only pursuant to a "retransmission consent" agreement. Commercial television stations also may elect either mandatory carriage or retransmission consent with respect to the carriage of their signals on direct broadcast satellite (DBS) systems that provide "local-into-local" service (i.e., distribute the signals of local television stations to viewers in the local market area). Stations that elect retransmission consent may negotiate for compensation from cable or DBS systems in exchange for the right to carry their signals. Each of GMG's television stations has elected retransmission consent for both cable and DBS operators, and each is carried on all of the major cable and DBS systems serving each station's respective local market pursuant to retransmission consent agreements. Retransmission consent elections must be made every three years. The most recent election deadline was October 1, 2020; all GMG stations elected retransmission consent for both cable and DBS operators. The 2020 election process was less time-intensive than prior processes, as the FCC in July 2019 moved to an electronic election system that now allows broadcasters to post their carriage elections online and to send notices to covered MVPDs electronically. The next election deadline is October 1, 2023 and will follow the same process.

Recent statutory changes have required the FCC to modify its rules governing retransmission consent negotiations. The Television Viewer Protection Act, enacted on December 20, 2019, made changes to the "good faith" standards for retransmission consent negotiations, calling for the FCC to implement regulations requiring "large station groups" (groups of television broadcast stations that have a national audience reach of more than 20%) to negotiate in good faith with MVPD "buying groups" (entities that negotiate on behalf of multiple small MVPDs). GMG does not qualify as a "large station group" under the statute and therefore will not be subject to this obligation. While GMG does not anticipate that these recent changes will materially affect its bargaining position in retransmission consent negotiations, if Congress or the FCC were to enact further changes to the retransmission consent rules (such as by requiring small station groups like GMG to negotiate with MVPD buying groups, or otherwise giving MVPDs heightened bargaining power), such changes could have a material effect on retransmission consent revenues.

The FCC has also considered proposals to alter its rules governing network non-duplication and syndicated exclusivity. In March 2014, the FCC solicited comments on a proposal to eliminate its network non-duplication and syndicated exclusivity rules, which restrict the ability of cable operators, direct broadcast satellite systems and other distributors classified by the FCC as MVPDs to import the signals of out-of-market television stations with duplicate programming during retransmission consent disputes or otherwise. The FCC has not acted on that proposal to date. If Congress or the FCC were to enact further changes to the exclusivity rules, such changes could materially affect the GMG stations' bargaining position in future retransmission consent negotiations.

Ownership Limits. The Communications Act and the FCC's rules limit the number and types of media outlets in which a single person or entity may have an attributable interest. The FCC is required by statute to review its media ownership rules (with the exception of the national television ownership rule, discussed below) every four years to determine whether those rules remain necessary in the public interest as the result of competition. This process is referred to as the quadrennial review. In November 2017, the FCC conducted such a review and voted to eliminate certain of its ownership limit restrictions and to modify others. This FCC decision was challenged in court, and the Third Circuit Court of Appeals set aside the FCC's decision in November 2019. However, the FCC appealed the Third Circuit court's decision, and on April 1, 2021, the U.S. Supreme Court reversed that decision. This means that the media ownership rules now reflect the November 2017 changes. The current ownership rule most relevant to GMG is the local television ownership rule. The rule prohibits one broadcaster from owning (or having an attributable interest in) two full-power television stations licensed to the same Nielsen DMA if both of them are ranked among the top four stations in the market, unless the broadcaster can demonstrate to the FCC that the combination serves the public interest. Ownership of more than two full-power television stations is generally prohibited.

The FCC's most recent quadrennial review of its media ownership rules was initiated in December 2018. That proceeding remains open. In June 2021, the FCC solicited comments to refresh the record, but no action has been taken in that proceeding to date. GMG's ability to enter into certain transactions in the future may be affected by the resolution of the current FCC quadrennial review proceeding.

Under the national television ownership rule, a single person or entity may have an attributable interest in an unlimited number of television stations nationwide, as long as the aggregate audience reach of such stations does not exceed 39% of nationwide television households and as long as such interest complies with the FCC's other

ownership restrictions. In 2016, the FCC eliminated the 50% Ultra High Frequency (UHF) discount, under which stations broadcasting on UHF channels are credited with only half the number of households in their market for purposes of calculating compliance with the 39% cap. However, the FCC reversed that decision in early 2017, concluding that the UHF discount should not be altered except in connection with a broader review of the national ownership cap. The reinstatement of the UHF discount was upheld by the D.C. Circuit in the summer of 2018. In December 2017, the FCC initiated a rule making proceeding seeking comments regarding its authority to modify or eliminate the national television ownership cap, which was set at 39% by statute, as well as the potential elimination of the UHF discount. That proceeding remains open.

Programming. Six of GMG's seven stations are affiliated with one or more of the national television networks that provide a substantial amount of programming to their television station affiliates. The expiration dates of GMG's affiliation agreements are set forth at the beginning of this Television Broadcasting section. WJXT, one of GMG's Jacksonville stations, has operated as an independent station since 2002. In addition, each of the GMG stations receives programming from syndicators and other third-party programming providers. GMG's performance depends in part on the quality and availability of third-party programming, and any substantial decline in the quality or availability of this programming could materially affect the ability of GMG and its competitors to enter into certain transactions in the future.

Public Interest Obligations. To satisfy FCC requirements, stations generally are expected to air a specified number of hours of programming intended to serve the educational and informational needs of children and to complete reports on a quarterly basis concerning children's programming. In July 2019, the FCC modified these rules to provide broadcasters with more flexibility in meeting the public interest obligations. Among other things, these rules allow up to 52 hours per year of children's programming to consist of educational specials and/or short-form programming. The prior rules required all qualifying programming to be regularly scheduled and in 30-minute blocks. While stations are required to air the substantial majority of their educational and informational children's programming on their primary program stream, under the current rules they may now air up to 13 hours per quarter of regularly scheduled weekly programming on a multicast stream. In addition, the FCC requires stations to limit the amount of advertising that appears during certain children's programs.

The FCC has other regulations and policies to ensure that broadcast licensees operate in the public interest, including rules requiring the disclosure of certain information and documents in an online public inspection file; rules requiring the closed-captioning of programming to assist television viewing by the hearing impaired; video description rules to assist television viewing by the visually impaired; rules concerning the captioning of video programming distributed via the internet; and rules concerning the volume of commercials. Compliance with these rules imposes additional costs on the GMG stations that could affect GMG's operations.

Political Advertising. The FCC regulates the sale of advertising by GMG's stations to candidates for public office and imposes other obligations regarding the broadcast of political announcements more generally, including the disclosures of certain information related to such advertising in the station's online public inspection file. The application of these regulations may limit the advertising revenues of GMG's television stations during the periods preceding elections. Failure to comply with the political advertising rules may result in enforcement actions by the FCC. The Company has procedures in place regarding compliance with the FCC's political advertising rules, but cannot predict how the FCC's future application of these rules will affect GMG's stations.

Broadcast Indecency. The FCC's policies prohibit the broadcast of indecent and profane material during certain hours of the day, and the FCC may impose monetary forfeitures when it determines that a television station has violated that policy. Broadcasters have repeatedly challenged these rules in court, arguing, among other things, that the FCC has failed to justify its indecency decisions adequately, that the FCC's policy is too subjective to guide broadcasters' programming decisions and that its enforcement approach otherwise violates the First Amendment. In June 2012, the U.S. Supreme Court held that certain fines against broadcasters for " fleeting expletives" were unconstitutional because the FCC failed to provide advance notice to broadcasters of what the FCC deemed to be indecent, but it also upheld the FCC's authority to regulate broadcast decency. The Company cannot predict how GMG's stations may be affected by the FCC's current or future interpretation and enforcement of its indecency policies.

Other Matters. In addition to the matters described above, the FCC is conducting proceedings concerning various other matters, the outcome of which could adversely affect the profitability of GMG's television broadcasting operations.

MANUFACTURING

Hoover Treated Wood Products, Inc.

Hoover Treated Wood Products, Inc. (Hoover) is a supplier of pressure impregnated kiln-dried lumber and plywood products for fire-retardant and preservative applications. Hoover, founded in 1955 and acquired by the Company in

2017, is headquartered in Thomson, GA. It operates 10 facilities across the country and services a stocking distributor network of more than 100 locations spanning the U.S. and Canada.

Group Dekko Inc.

Group Dekko Inc. (Dekko) is an electrical solutions company that focuses on innovative power charging and data systems; industrial and commercial indoor lighting solutions; and the manufacture of electrical components and assemblies for medical equipment, transportation, industrial and appliance products. Dekko, founded in 1952, is headquartered in Fort Wayne, IN, and operates 13 facilities in five states and Mexico.

Joyce/Dayton Corp.

Joyce/Dayton Corp. (Joyce/Dayton) is a leading manufacturer of screw jacks, linear actuators and related linear motion products and lifting systems in North America. Joyce/Dayton provides its lifting and positioning products to customers across a diverse range of industrial end markets, including renewable energy, metals and metalworking, oil and gas, satellite antennae and material handling sectors.

Forney Corporation

Forney Corporation (Forney) is a global supplier of burners, igniters, dampers and controls for combustion processes in electric utility and industrial applications. Forney is headquartered in Addison, TX, and its manufacturing plant is in Monterrey, Mexico. Forney's customers include power plants and industrial systems around the world.

HEALTHCARE

Graham Healthcare Group

Graham Healthcare Group (GHG) provides home health, hospice and palliative services to more than 50,000 patients annually. GHG operates 13 home care, seven hospice and two palliative care operating units in Michigan, Illinois, Pennsylvania and Florida. Six of GHG's 19 operating units are operated through joint ventures with health systems and physician groups. The remainder are wholly owned and operated under the "Residential" brand name. Home health services include a wide range of health and social services delivered at home to recovering, disabled and chronically or terminally ill persons in need of medical, nursing, social or therapeutic treatment and assistance with the essential activities of daily living. Hospice care focuses on relieving symptoms and supporting patients with a life expectancy of six months or less. Hospice care involves an interdisciplinary approach to the provision of medical care, pain management and emotional and spiritual support, with an emphasis on comfort, not curing. Hospice services can be provided in the patient's home, as well as in free-standing hospice facilities, hospitals, nursing homes and other long-term care facilities. Palliative care is a specialized form of medicine provided by nurse practitioners that aims to enhance the quality of life of patients and their families who are faced with serious illness. It focuses on increasing comfort through prevention and treatment of distressing symptoms. In addition to expert symptom management, palliative care focuses on clear communication, advance planning and coordination of care. Each GHG operating unit offers care coordination, healthcare solutions and clinical expertise. All home health and hospice operations are Medicare certified and accredited by the Accreditation Commission for Health Care (ACHC) or are in the process of being ACHC accredited. GHG derives 90% of its revenues for home health and hospice services from Medicare. The remaining sources of revenue are from Medicaid, commercial insurance and private payers.

In 2019, GHG acquired two business units, Clinical Specialty Infusions, LLC (CSI Pharmacy) located in Texarkana, Texas, and Clarus Care, LLC (Clarus) in Nashville, Tennessee. CSI Pharmacy is a nationwide specialty pharmacy licensed in 38 states that serves patients suffering from chronic illness. CSI Pharmacy specializes in treating rare diseases with biologics and plasma-derived therapies, with revenues derived primarily from intravenous immunoglobulin (IVIG) therapy. CSI Pharmacy delivers products to patients' houses and employs nurses to provide specialized infusion therapies in the home on a monthly basis. Clarus provides call management solutions to physician groups and hospitals. Clarus replaces traditional human-staffed answering services with a SaaS-based solution. Clarus streamlines calls, eliminates patient hold times, and manages referrals and new appointments. The solution eliminates delays, call routing errors and malpractice risk inherent with traditional call centers.

In December 2021, GHG acquired two businesses, one of which expanded GHG's home health operations into Florida and Weiss Medical, a full service physician practice based in Riverdale, New Jersey. Weiss has expertise in all allergic and immunologic conditions, and specializes in challenging cases. It is often able to help patients even after they have seen numerous other specialists. The practice also offers infusion services.

AUTOMOTIVE

Graham Automotive LLC

The Company owns a 90% interest in four automotive dealerships. In January 2019, the Company acquired a 90% interest in two automobile dealerships in the Washington, D.C. area, Honda of Tysons Corner in Virginia and Lexus of Rockville in Maryland. The two dealerships are established automotive retailers. In December 2019, the Company opened a new Jeep dealership in Bethesda, MD. In December 2021, the Company acquired a 90% interest in an automobile dealership, Ford of Manassas in Virginia. The Company has a management services agreement with an entity affiliated with Christopher J. Ourisman, a member of the Ourisman Automotive Group family of dealerships, to operate and manage the operations of the dealerships. The Company also owns CarCare To Go, which provides valet repair services to and from a network of dealership service centers in the Washington, D.C. area.

OTHER ACTIVITIES

Leaf Group Ltd.

In June 2021, the Company acquired Leaf Group Ltd. (Leaf), headquartered in Santa Monica, California. Leaf is a diversified consumer internet company that builds creator-driven brands in lifestyle and home and art design categories. Through its Society6 Group, Leaf operates leading art and design marketplaces where large communities of artists and designers can market and sell their original art and designs printed on a wide variety of products. Its made-to-order marketplaces, consisting of Society6.com (Society6) and its wholesale channel (collectively, Society6 Group), provide artists and designers with an online commerce platform to feature and sell their original art and designs on an array of consumer products primarily in the home décor category. Society6 Group's wholesale channel sells products to trade and hospitality clients, as well as retail distribution partners. Through Leaf's Saatchi Art Group, including SaatchiArt.com (Saatchi Art) and its art fair event brand, The Other Art Fair, Leaf provides an online art gallery where a global community of artists exhibit and sell their original artwork directly to consumers through a curated online gallery, virtual reality or in-person at art fairs hosted in the United Kingdom, Australia, Canada and the United States. Saatchi Art's online art gallery features a wide selection of original paintings, drawings, sculptures and photography. Leaf's Media Group consists of a diverse portfolio of media properties that educate and inform consumers across a wide variety of life topics, including fitness and wellness brands such as Well+Good and Livestrong.com, Hunker in the home and design space and Only In Your State in the travel sector. Together with these premium brands, Leaf owns and operates or hosts and operates over 45 websites focused on specific categories or interests. Leaf generates the majority of its media revenue from the sale of advertising.

Clyde's Restaurant Group

In July 2019, the Company acquired Clyde's Restaurant Group (Clyde's). Clyde's, founded in 1963, owns and operates 11 restaurants and entertainment venues in the Washington, D.C. metropolitan area, including seven Clyde's locations, Old Ebbitt Grill, The Hamilton, 1789 Restaurant, and The Tombs.

Framebridge, Inc.

In May 2020, the Company acquired an additional interest in Framebridge, Inc. (Framebridge), a custom framing service company, that resulted in the Company's ownership of approximately 93% of Framebridge. The CEO of Framebridge continues to hold an approximately 7% ownership stake in Framebridge. Framebridge provides high-quality, affordable and fast custom framing directly to consumers. Through its website, app, and retail locations, Framebridge offers consumers the option to drop off or ship artwork, pictures and other personal objects directly to Framebridge to be custom framed and then delivered directly to a customer or a retail store for in-store pick up. Framebridge is headquartered in Washington, D.C., has 5 retail locations in the Washington, D.C./Maryland/Northern Virginia market, three locations in Manhattan and Brooklyn, NY, three in the Chicago market, two locations in Atlanta, GA, one each in the Boston and Philadelphia markets, and two manufacturing facilities in Kentucky and New Jersey.

Code3

Code3 is a marketing and insights company that manages digital advertising for global brands and early-stage companies. It delivers media, creative, and data services to transform consumer and performance data into planning, content, media activation and measurement to maximize ROI. Code3 works across platforms such as Facebook, Instagram, Amazon, Google, Twitter, Pinterest, Snapchat and YouTube. The legacy business surrounding the Audience Intelligence Platform (AIP) has been operated since the beginning of 2021 as a separate software company under the name, Decile LLC. "Code3" is the trade name of Social Code, LLC and Marketplace Strategy, LLC.

Decile LLC

Decile LLC (Decile) is a customer data and analytics software company that helps marketers extract value from their proprietary first-party customer and sales data. Decile provides software and services to help its business clients better understand customer acquisition costs, customer retention, unit economics and how to increase profitable growth.

The Slate Group LLC

The Slate Group LLC (Slate) publishes *Slate*, an online magazine. *Slate* features articles and podcasts analyzing news, politics and contemporary culture and adds new material on a daily basis. Content is supplied by the magazine's own editorial staff, as well as by independent contributors. As measured by The Slate Group, *Slate* had an average of more than 21 million unique visitors per month and averaged more than 55 million page views per month across desktop and mobile platforms in 2021. The Slate Group owns an interest in E2J2 SAS, a company incorporated in France that produces two French-language news magazine websites at *slate.fr* and *slateafrique.com*. The Slate Group provides content, technology and branding support.

Pinna

Pinna is an audio-first children's media company offering an on-demand subscription service that delivers curated audio programming for children, all in one place, including podcasts, audio shows, audiobooks and music. The service offers children an ad-free, screen-free way to play and listen. Pinna creates and produces award-winning, original shows and partners with best-in-class brands and top creative talent to deliver age-appropriate, high-quality, highly entertaining audio experiences for three- to 12-year-olds.

The FP Group

The FP Group produces *Foreign Policy* magazine and the *ForeignPolicy.com* website, which cover developments in national security, international politics, global economics and related issues. The site features blogs, unique news content and specialized channels and newsletters focusing on regions and topics of interest. The FP Group provides insight and analysis into global affairs for government, military, business, media and academic leaders. FP Events also produces a growing number of live and virtual events, bringing together government, military, business and investment leaders to discuss important regional and topical developments and their implications.

CyberVista LLC

CyberVista LLC (CyberVista) is a cybersecurity training company headquartered in Arlington, VA. Its training solutions span cyber protection, operations, cloud and hardware/software. Its Resolve executive training suite helps large company boards and executives prepare for and mitigate cyber threats. Customers include Fortune 500 companies, leading cybersecurity providers and the defense industrial base.

City Cast LLC

City Cast LLC (City Cast) is a network of daily local news podcasts in cities around the country, accompanied by a daily email newsletter about local communities, including local news, events and places. Currently City Cast is available in Chicago, Denver, Houston, Salt Lake City and Pittsburgh.

COMPETITION

Kaplan

Kaplan's businesses operate in fragmented and competitive markets. Each of KI businesses competes in disaggregated markets with other for-profit institutions and companies (ranging in size from large for-profit universities to small competitors offering English-language courses) and, in certain instances, with government-supported schools and institutions that provide similar training and educational programs. Competitive factors vary by business and include program offerings, ranking of university partners, convenience, quality of instruction, reputation, placement rates, student services and cost. KI derives its competitive advantage from, among other things, delivering high-quality education and training experiences to students, having name brand recognition across multiple markets, developing strong relationships with corporate clients and recruitment partners and offering competitive pricing. KNA competes with companies that provide various education technology solutions, consumer test and licensure preparation and course delivery, corporate training, university administrative support for online programs and courses, curriculum development, overall online program development and analytics for colleges and universities, as well as support for corporate, employer and employee education programs. The market for KNA's services and products, and especially its higher education services and products, is dynamic and rapidly evolving, and several competitors offer a mix of some of the same products and services or are seeking to move into the markets in which KNA operates. Competitive factors in these KNA markets include the ability to deliver a wide range

of educational services and programs to clients across all levels of programs and administrative functions; cost effectiveness; expertise in marketing, recruitment and program delivery; student outcomes and satisfaction; the ability to invest in start-up and scaling initiatives; reputation; and compliance with laws and the ability to navigate complex regulatory requirements. KNA's ability to effectively compete in the higher education services markets will depend in large part on its successful delivery and navigation of these factors. While the competitive landscape is expanding, KNA's resources, capabilities and experience are key differentiators in the market. Similarly, KNA's supplemental education products and services compete with a wide range of national, regional, local, online and location-based competitors. Competitors vary by test, with many focused on preparing students for a single high-stakes test. For its curricular and assessment services, KNA has a number of national competitors as well as competitors focused on preparation for particular tests. Competitive factors for the supplemental education products vary by product line and include price, features, modality, schedule and reputation. Although KNA faces intense competition and shifting consumer preferences in these areas, particularly with respect to online test preparation, where some new competitors are offering lower-cost and free test preparation products, KNA, and particularly Kaplan Test Prep, remains a leading name in test preparation owing in part to its technical expertise and capabilities, quality of instructors, content, curricula, longevity and reputation in the industry. KNA's professional licensure training and preparation and corporate training products and services offer a broad portfolio of products, many within highly regulated and mature industries, including securities, insurance, real estate and wealth management, where competition includes a wide variety of national, regional and local companies seeking the same market share and resulting in deep price discounting and commoditization of offerings.

Graham Media Group

GMG competes for audiences and advertising revenues with television and radio stations, cable systems, video services offered by telephone and broadband companies serving the same or nearby areas, DBS services, digital media services, and, to a lesser degree, with other media providers, such as newspapers and magazines. Cable systems operate in substantially all of the areas served by the Company's television stations, where they compete for television viewers by importing out-of-market television signals; by distributing pay-cable, advertiser-supported and other programming that is originated for cable systems; and by offering movies and other programming on an on-demand, digital or pay-per-view basis. In addition, DBS services provide nationwide distribution of television programming, including pay-per-view programming and programming packages unique to DBS, using digital transmission technologies. Moreover, to the extent that competing television stations in the Company's television markets transition to ATSC 3.0, such stations may pose an increased competitive challenge to the Company's stations in the future, such as by offering an increased number of multicast channels or by offering advanced features.

Competition continues to increase from established and emerging online distribution platforms. Movies and television programming increasingly are available on an on-demand basis through a variety of online platforms, which include free access on the websites of the major TV networks, ad-supported viewing on platforms such as Hulu, and subscription-based access through services such as Netflix. In addition, online-only subscription services offering live television services have been launched both by traditional pay-TV competitors (such as DISH and DirecTV) and newer entrants (such as Fubo). The Company has entered into agreements for some of its stations to be distributed via certain of these services, typically through opt-in agreements negotiated by the stations' affiliated networks. Participation in these services has given the Company's stations access to new distribution platforms. At the same time, competition from these various platforms could adversely affect the viewership of the Company's television stations via traditional platforms and/or the Company's strategic position in negotiations with pay-TV services. In addition, the networks' increased role in negotiating online distribution arrangements for their affiliated stations, together with the networks' imposition of higher fees on affiliated stations in exchange for broadcast and traditional pay-TV retransmission rights, may have broader effects on the overall network-affiliate relationship, which the Company cannot predict.

Hoover

Hoover's predominant product line is fire-retardant treated wood products for building interior applications that are specified by architects in accordance with building code requirements for multi-family residential, commercial and institutional nonresidential buildings. Hoover's fire-retardant product lines are sold through a stocking distributor network of more than 100 locations spanning the U.S. and Canada. Hoover's competitors are licensees of other chemical suppliers to the wood treating industry who compete with Hoover's stocking distributors on a local basis. The primary areas of competition are product availability and price, although brand loyalty due to product quality is significant. Wood products are commodities with volatile market pricing; however, Hoover's reputation for quality products and its unique distribution model, which provides superior product availability, enable Hoover to maintain a leading position across the continent.

Dekko

Dekko has three distinct product families that compete in fragmented, competitive global markets: power and data distribution for office and furniture products, lighting solutions, and electrical harness manufacturing. These products are sold through dealer and distribution channels and original equipment manufacturer (OEM) customers, focused primarily on the North American market. While all markets and products are price sensitive, technology, engineering solutions, quality and delivery performance are critical in purchase decisions. Dekko's multiple long-term relationships, high-quality manufacturing facilities, engineering support and reputation as a solutions provider, in addition to being a product supplier, all contribute to sustaining its competitive advantages.

Graham Healthcare Group

The home health and hospice industries are extremely competitive and fragmented, consisting of both for-profit and nonprofit companies. According to the Medicare Payment Advisory Commission's July 2021 Data Book, there are approximately 11,456 Medicare-certified home health providers and approximately 4,840 hospice providers in the U.S., with the number of active home healthcare providers rapidly increasing. GHG markets its services to physicians, discharge planners and social workers at hospitals, nursing homes, senior living communities and physicians' offices through a direct sales model. GHG differentiates its offerings based on response time, clinical programming, clinical outcomes and patient satisfaction. Throughout the three states in which it operates, GHG competes primarily with both privately owned and hospital-operated home health and hospice service providers.

Graham Automotive

The retail automotive industry is highly competitive and fragmented. Automobile dealerships compete with dealerships offering the same brands as well as those offering other manufacturers' brands. Competitors include small local dealerships and large national multi-franchise automotive dealership groups. In addition to competition for vehicle sales, dealerships compete for parts and service business with other dealerships, automotive parts retailers and independent mechanics. The principal competitive factors in vehicle sales are price, selection of vehicles, location of dealerships and quality of customer service. The principal competitive factors in parts and service sales are price, the use of factory-approved replacement parts, factory-trained technicians and the quality of customer service.

Leaf

Leaf operates in highly competitive and developing industries that are characterized by rapid technological change, a variety of business models and frequent disruption of incumbents by innovative entrants. Its art and design marketplaces, Society6 Group and Saatchi Art Group, compete with a wide variety of online and brick-and-mortar companies selling comparable products. Its made-to-order marketplace business, Society6 Group, primarily competes with companies that also utilize a made-to-order business model whereby consumer products featuring artist designs are produced by third-party fulfillment partners and shipped directly to customers, such as Redbubble, Zazzle, Art.com, Shutterfly and Minted, as well as companies that offer broader home décor and apparel products, such as Amazon, Etsy, Wayfair, Urban Outfitters and West Elm. Its online art gallery and in-person art fair business, Saatchi Art Group, competes with traditional offline art galleries, art consultants and online platforms selling original artwork, such as Artfinder, Artspace, Rise Art, Singulart, eBay and Amazon Art, as well as various art fairs that feature reasonably priced artwork from emerging artists, such as The Affordable Art Fair. Leaf's marketplaces must successfully attract, retain and engage both buyers and sellers to use our platforms and attend our fairs. The principal competitive factors for such marketplaces include the quality, price and uniqueness of the products, artwork or services being offered; the selection of goods and artists featured; the ability to source numerous products efficiently and cost-effectively with respect to its made-to-order products; customer service; the convenience and ease of the shopping experience; and its reputation and brand strength. Competition is expected to continue to intensify as online and offline businesses increasingly compete with each other and the barriers to enter online channels are reduced. For properties within its Media Group, Leaf faces intense competition from a wide range of competitors. These markets are rapidly evolving, highly fragmented and competition could increase in the future as more companies enter the space. The Media Group competes for advertisers on the basis of a number of factors, including return on marketing expenditures, price of our offerings, and the ability to deliver large audiences or precise types of segmented audiences. Principal competitors in this space currently include various online media companies ranging from large internet media companies to specialized and enthusiast properties that focus on particular areas of consumer interest, as well as social media outlets such as Facebook, TikTok, Snapchat, Instagram and Pinterest, where brands and advertisers are focusing a significant portion of their online advertising spend in order to connect with their customers. Some of its competitors have larger audiences and more financial resources and many of its competitors are making significant investments in order to compete with various aspects of this business. Many of Leaf's current competitors have, and potential competitors may have, substantially greater financial, marketing and other resources than Leaf; greater technical capabilities; greater brand recognition; longer operating histories; differentiated products and services; and larger customer bases. These resources may help some of these competitors and potential competitors respond more quickly as the industry and technology evolves,

focus more on product innovation, adopt more aggressive pricing policies and devote substantially more resources to website and system development.

Clyde's

The restaurant industry is highly competitive. Clyde's competes with national and regional chains and independent, locally owned restaurants for customers and personnel. The principal basis for competition are types of food and service, quality, price, location, brand and attractiveness of facilities.

Framebridge

Framebridge operates in a highly fragmented market. Competitors include small local retail operations and a few national retail chains. The competitive factors in the framing industry are price, selection and convenience. Framebridge's centralized manufacturing, clear and transparent pricing, retail stores that are optimized for foot traffic and a curated buying experience rather than framing workshops, and strong e-commerce and digital capabilities contribute to its competitive advantages.

Code3

The business of managed digital advertising is highly competitive. Public multinational advertising agencies may exacerbate price competition in an attempt to protect existing relationships with advertising clients in traditional media formats such as television. Public and private advertising technology companies, digital media agencies and newer market entrants such as consulting firms also compete on price, service and technology offerings. Code3 seeks to maintain a competitive advantage and maximize its clients' return on advertising budgets by utilizing a combination of the deep expertise of its employees, who manage media spending on the largest digital platforms and a full-service creative team with a nuanced understanding of digital media.

Decile

Decile faces competition from lower-cost providers that provide a narrower data analytics offering. In addition, at higher price points aimed at larger marketers (\$50M+ annual revenue), there are several large customer data platform (CDP) competitors that attempt to unify many disparate sources of data to improve omnichannel advertising outcomes. Decile seeks to maintain a competitive advantage by simplifying the connection between data and marketing and bridging the gap between financial and marketing analytics to help marketers extract the most value out of their customer and sales data, all at a competitive price. Decile's additional third-party data enrichment capabilities and data science analytics serve as key differentiators in the mid-market space where those capabilities are not available at a competitive price.

Slate

As a digital media company, Slate operates in highly competitive markets for subscribers, audiences and advertisers. For written work, Slate faces competition from other online publishers, especially magazines and newspapers. In podcasting, Slate faces competition from other podcast networks, as well as traditional radio networks. In the face of stiff competition, Slate is able to attract and retain a large educated, affluent audience and subscriber base by creating high-quality content, and is then able to compete for advertisers who wish to reach that audience on trusted, brand-safe properties.

Pinna

Pinna is currently the only ad-free, audio on-demand streaming service designed just for children that offers multiple audio formats in one space that complies with the Children's Online Privacy Protection Act (COPPA). The market for children's subscription digital media entertainment is large. It includes media subscription services for families, subscription services for children, online learning/gaming destinations, audiobooks and podcasts for children, gaming subscriptions and free digital content. Key differentiators for Pinna include its access to multiple formats and its offering of curated best-in-class brands and original shows all in one ad-free COPPA-compliant place.

EXECUTIVE OFFICERS

The executive officers of the Company, each of whom is elected annually by the Board of Directors, are as follows:

Donald E. Graham, age 76, has been Chairman of the Board of the Company since September 1993 and served as Chief Executive Officer of the Company from May 1991 until November 2015. Mr. Graham served as President of the Company from May 1991 until September 1993 and prior to that had been a Vice President of the Company for more than five years. Mr. Graham also served as Publisher of The Washington Post (the *Post*) from 1979 until September 2000 and as Chairman of the *Post* from September 2000 to February 2008.

Timothy J. O'Shaughnessy, age 40, became Chief Executive Officer of the Company in November 2015. From November 2014 until November 2015, he served as President of the Company. He was elected to the Board of Directors in November 2014. From 2007 to August 2014, Mr. O'Shaughnessy served as chief executive officer of LivingSocial, an e-commerce and marketing company that he co-founded in 2007. Mr. O'Shaughnessy is the son-in-law of Donald E. Graham, Chairman of the Company.

Andrew S. Rosen, age 61, became Executive Vice President of the Company in April 2014. He became Chairman of Kaplan, Inc. in November 2008 and served as Chief Executive Officer of Kaplan, Inc. from November 2008 to April 2014 and from August 2015 to the present. Mr. Rosen has spent nearly 36 years at the Company and its affiliates. He joined the Company in 1986 as a staff attorney with the Post and later served as assistant counsel at Newsweek. He moved to Kaplan in 1992 and held numerous leadership positions there before being named Chairman and Chief Executive Officer of Kaplan, Inc.

Wallace R. Cooney, age 59, became Senior Vice President–Finance and Chief Financial Officer of the Company in April 2017. Mr. Cooney served as the Company's Vice President–Finance and Chief Accounting Officer from 2008 to 2017. He joined the Company in 2001 as Controller.

Jacob M. Maas, age 45, became Executive Vice President of the Company in January 2022, prior to which he served as Senior Vice President–Planning and Development beginning October 2015. Prior to joining the Company, he served as executive vice president of operations and head of corporate development at LivingSocial, an e-commerce and marketing company that he joined as chief financial officer in 2008.

Nicole M. Maddrey, age 57, became Senior Vice President, General Counsel and Secretary of the Company in April 2015. Ms. Maddrey joined the Company in 2007 as Associate General Counsel. Prior to joining the Company, Ms. Maddrey served as Special Counsel in the Division of Corporation Finance at the U.S. Securities and Exchange Commission.

Marcel A. Snyman, age 47, became Vice President and Chief Accounting Officer of the Company in January 2018. Mr. Snyman served as Controller of the Company from 2016 to 2018, prior to which he served as Assistant Controller beginning in April 2014 and Director of Accounting Policy beginning in July 2008.

Sandra M. Stonesifer, age 37, became Vice President–Chief Human Resources Officer of the Company in January 2021. Prior to joining the Company, Ms. Stonesifer was a consultant with S-Squared Consulting, an organization development consulting company.

HUMAN CAPITAL

The Company employs approximately 18,000 people worldwide, of which approximately 12,350 were employed in the United States and approximately 5,650 were employed outside the United States. Employment across each of the Company's businesses is further discussed below.

Kaplan employs approximately 6,100 people on a full-time basis in 27 countries. Kaplan also employs substantial numbers of part-time employees who serve in instructional and administrative capacities. Kaplan's part-time workforce comprises approximately 4,000 individuals in 17 countries. Collectively, in the U.S. and Canada, 52 Kaplan employees are represented by a union. In countries where Kaplan has a presence but union membership is not disclosed to the employer – the U.K., Australia and Singapore – there may be union represented employees as well.

Graham Media Group has approximately 1,012 employees, including 968 full-time employees and 44 part-time employees, of whom approximately 105 are represented by a union.

In the Manufacturing segment, Hoover has approximately 356 full-time employees, of whom 15 are represented by a union, and one part-time employee. Dekko has approximately 1,185 full-time employees, none of whom is represented by a union. Joyce/Dayton has approximately 165 full-time employees, none of whom is represented by a union. Forney has approximately 109 full-time employees, of whom 43 are represented by a union.

In the Healthcare segment, Graham Healthcare Group has approximately 1,159 full-time employees and 243 part-time employees. None of these employees is represented by a union.

Graham Automotive employs approximately 412 full-time employees. None of these employees is represented by a union.

In the Other Businesses segment, Leaf Group employs 390 full-time employees, none of whom is represented by a union. Clyde's has approximately 148 full-time employees and 1,342 part-time employees, none of whom is represented by a union. Framebridge has approximately 782 employees, including 243 seasonal employees, none of whom is represented by a union. Code3 has approximately 236 full-time employees, none of whom is

represented by a union. Decile has 34 full-time employees and two part-time employees, none of whom is represented by a union. Slate employs 123 full-time employees and seven part-time employees, of whom approximately 57 are represented by a union. Pinna employs 10 full-time employees, none of whom is represented by a union. The FP Group has 56 full-time employees and four part-time employees. CyberVista employs 37 full-time employees and 11 part-time employees, none of whom is represented by a union.

The parent Company has approximately 72 full-time employees and one part-time employee, none of whom is represented by a union.

The Company recognizes the importance of attracting, developing and retaining highly qualified employees throughout each of its businesses. The following is a description of the Company's efforts to manage and promote human capital within its organization.

Oversight and Management. The Company's human resources organization and the human resource organizations of its various businesses manage employment-related matters, including recruiting and hiring, training, compensation, workplace safety, performance management, support for specific needs including supporting employees who are caregivers or working remotely, and creating diversity, equity and inclusion strategies. The Compensation Committee of the Board of Directors provides oversight of certain human capital matters, including compensation and benefits, executive development, workforce diversity and inclusion initiatives, and succession planning.

Compensation and Benefits. The Company offers strong compensation and benefits programs to its employees. In 2021 the Company utilized a market pay tool to ensure all our units have access to high-quality market compensation data that enables them to set fair and equitable compensation rates. Depending on the business unit, employee benefits may include healthcare and insurance benefits, health savings and flexible spending accounts, paid time off, family leave, employee assistance programs, tuition assistance programs, bonuses, long-term incentive compensation plans, pension and a 401(k) Plan. The Company also offers a small group of eligible employees certain equity-based grants under the Company's incentive compensation plan with vesting and performance conditions to facilitate the attraction, retention, motivation and reward of key employees and to align their interests with those of the Company's stockholders.

Health and Safety. The health and safety of the Company's employees is paramount. The Company's health and safety programs are designed to address multiple jurisdictions and regulations as well as the specific risks and unique working environments of each of the Company's businesses. In response to the COVID-19 pandemic, the Company's businesses have adopted return to office and vaccination policies and procedures that are most appropriate for their businesses based on their industry and health risks as well as federal, state and local guidance and regulation. At this time the majority of our workforce is required to be vaccinated against COVID-19 for in-person work.

Training and Talent Development. The Company is committed to the continued growth and development of its employees across all businesses. While development opportunities vary across the Company's businesses, the Company seeks to offer a variety of learning opportunities including virtual learning as well as on-the-job mentoring and coaching. All employees complete core harassment and discrimination training and ethics training and are offered specific skills training designed to support the growth and advancement of their professional skills. For example, CyberVista conducts web-based leadership management training for first-time managers. Leaf Group has deployed several continuous learning platforms, including a diversity and inclusion learning platform; an eLearning and development platform; and a performance management platform. Leaf Group's leadership development program includes personal assessments and one-on-one coaching for senior leadership. Joyce/Dayton conducted leadership assessments for executives and managers as well as a personal assessment tool to improve organizational communication. GMG has established learning and development opportunities to support its mission to be the authentic, local voice in the communities they serve. GMG proudly offers in-house leadership programs such as 'Boss School' which focuses on key skills and knowledge for new managers and a continuing development program for experienced producers.

Diversity and Inclusion. Diversity and inclusion remains a high priority within the Company and in 2021 several new initiatives were launched at both the corporate level and at our business units. These initiatives are focused on supporting the retention and training of a diverse workforce across the Company. The Company encourages all business units to promote policies prioritizing diversity, equity and inclusion (DEI), and offers courses on inclusive leadership and unconscious bias as part of Company-wide training options. In 2021, the Company chose to focus its global efforts on learning and strategy-building. The Company's business units participated in a corporate-funded training program to establish DEI goals focused on attracting, retaining, developing and engaging underrepresented talent. The outcomes of the exercise were reported to the Board in November 2021. Following the completion of the program, a GHC Diversity, Equity and Inclusion Council was formed to support ongoing progress at each individual business and collectively across the Company.

The Company is committed to a culture in which its diverse employee base can thrive in an inclusive and respectful environment. As of December 2021, the diversity of the Company's employees in the U.S. was: 54% female; 46% male; 63% White; 14% Black or African American; 14% Hispanic or Latino; 7% Asian; and 2% Other.

The Company's businesses have launched various initiatives to support their individual DEI efforts. For example, GMG launched a strategy that included the adoption of new training tools, the creation of employee resource groups, virtual employee learning activities around Juneteenth and other celebration events, and talent sourcing focused on attracting underrepresented talent. At Kaplan, they have prioritized educating managers and employees on DEI best practices and expectations, including creation of a Global Inclusive Leader and Inclusive Colleague training for all current and new employees. Kaplan also sponsors diversity appreciation months that include social activities and discussion forums around relevant topics that raise awareness and increase understanding of diversity. Kaplan continues to be the primary donor and supporter of The Kaplan Educational Foundation (KEF), an independent public charity founded by Kaplan executives to help promote racial equality through higher education. Other business units have established strategic diversity and inclusion initiatives in ways that speak to their unique environment and human capital needs. For example, GHG has committed to building a career pathing and mentorship program for all field-based positions to help employees, especially underrepresented talent, achieve their career advancement goals. Most of the Company's businesses have incorporated diversity, equity and inclusion related questions in their engagement surveys and are beginning to gather and analyze their human capital data to better understand existing conditions, set goals, and measure progress moving forward.

FORWARD-LOOKING STATEMENTS

All public statements made by the Company and its representatives that are not statements of historical fact, including certain statements in this Annual Report on Form 10-K and elsewhere in the Company's 2021 Annual Report to Stockholders, are "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements include comments about expectations related to the duration and severity of the COVID-19 pandemic and its effects on the Company's operations, financial results, liquidity and cash flows. Other forward-looking statements include comments about expectations related to acquisitions or dispositions or related business activities, including the TOSA, the Company's business strategies and objectives, anticipated results of license renewal applications, the prospects for growth in the Company's various business operations and the Company's future financial performance. As with any projection or forecast, forward-looking statements are subject to various risks and uncertainties, including the risks and uncertainties described in Item 1A of this Annual Report on Form 10-K, that could cause actual results or events to differ materially from those anticipated in such statements. Accordingly, undue reliance should not be placed on any forward-looking statement made by or on behalf of the Company. The Company assumes no obligation to update any forward-looking statement after the date on which such statement is made, even if new information subsequently becomes available.

AVAILABLE INFORMATION

The Company's internet address is www.ghco.com. The Company makes available free of charge through its website its Annual Report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, definitive proxy statements on Schedule 14A and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (Exchange Act) as soon as reasonably practicable after such documents are electronically filed with the Securities and Exchange Commission (SEC). In addition, the Company's Certificate of Incorporation, its Corporate Governance Guidelines, the Charters of the Audit and Compensation Committees of the Company's Board of Directors and the codes of conduct adopted by the Company and referred to in Item 10 of this Annual Report on Form 10-K are all available on the Company's website; printed copies of such documents may be obtained by any stockholder upon written request to the Secretary, Graham Holdings Company at 1300 North 17th Street, Arlington, VA 22209. The contents of the Company's website are not incorporated by reference into this Form 10-K and shall not be deemed "filed" under the Exchange Act.

The SEC website, www.sec.gov, contains the reports, proxy statements and information statements and other information regarding issuers that file electronically with the SEC.

Item 1A. Risk Factors.**SUMMARY RISK FACTORS**

This risk factor summary does not contain all of the information that may be important to you, and you should read this risk factor summary together with the more detailed discussion of risks and uncertainties set forth following this section under the heading "Risk Factors," as well as elsewhere in this Annual Report on Form 10-K. Additional risks, beyond those summarized below or discussed elsewhere in this Annual Report on Form 10-K, may apply to the Company's business, activities or operations as currently conducted or as may be conducted in the future. These risks include, but are not limited to, the following:

Risks Related to the COVID-19 Pandemic

- The Company's Business, Results of Operations and Cash Flows Have Been and Will Continue to Be Adversely Impacted by the Effects of the COVID-19 Pandemic.

Risks Related to the Company's Education Business

- Changes in International Regulations, Travel Restrictions and Sanctions.
- Difficulties of Managing Foreign Operations and Failure to Comply with Foreign Regulatory Requirements.
- Changes in U.K. Tax Laws.
- Failure to Comply with Statutory and Regulatory Requirements as a Third-Party Servicer to Title IV Participating Institutions.
- Failure to Comply with the ED's Title IV Incentive Compensation Rule.
- Failure to Comply with the ED's Title IV Misrepresentation Regulations.
- Compliance Reviews, Program Reviews, Audits and Investigations, Including in Connection with Borrower Defense to Repayment Claims.
- Noncompliance with Regulations by KNA's Client Institutions.
- Kaplan May Fail to Realize the Anticipated Benefits of the Purdue Global Transaction.
- Regulatory Changes and Developments.
- Changes in the Extent to Which Standardized Tests Are Used in the Admissions Process by Colleges or Graduate Schools and Increased Competition.
- Postponement and Cancellation of Examinations and Changes in the Extent to Which Licensing and Proficiency Examinations Are Used to Qualify Individuals to Pursue Certain Careers.
- Liability under Real Estate Lease Guarantees for Certain Real Estate Leases that were Assigned to Education Corporation of America.

Risks Related to the Company's Television Broadcasting and Media Businesses

- Changing Perceptions about the Effectiveness of Television Broadcasting in Delivering Advertising.
- Increased Competition Resulting from Technological Innovations in News, Information and Video Programming Distribution Systems and Changing Consumer Behavior.
- Changes in the Nature and Extent of Government Regulations.
- Transition to New Technical Standards for Broadcast Television Stations.
- Potential Liability for Intellectual Property Infringement.

Risks Related to the Company's Manufacturing Businesses

- Failure to Comply with Environmental, Health, Safety and Other Laws Applicable to the Company's Manufacturing Operations.
- The Company May Be Subject to Liability Claims.
- Failure to Recruit and Retain Production Staff Needed to Meet Customer Demand.

Risks Related to the Company's Healthcare Business

- Extensive Regulation of the Healthcare Industry.
- Continued Nursing Staffing Shortages.

Risks Related to the Company's Automotive Businesses

- Termination or Non-renewal of a Dealership Agreement by an Automobile Manufacturer and Limitations on the Company's Ability to Acquire Additional Dealerships.
- Changes Affecting Automobile Manufacturers.
- Changes to State Dealer Franchise Laws to Permit Manufacturers to Enter the Retail Market Directly and Technological Innovations.
- Changes in a Manufacturer's Incentive Programs.
- Changes in Environmental Regulations Governing the Operations of the Automotive Business.
- Changes in Economic Conditions and Vehicle Inventories.

Risks Related to the Company's Other Businesses

- Failure to Successfully Drive Traffic to Leaf's Marketplaces and Media Properties and Expand its Customer Base for its Marketplaces.
- Failure to Effectively Distribute Leaf's Media Content on Social Media Platforms or Effectively Optimize its Mobile Solutions in Order to Improve User Experience or Comply with Requirements of Leaf's Advertising Partners.
- Leaf's Businesses Face Significant Competition.
- Failure to Recruit and Retain Employees in the Company's Restaurants.
- Food-Borne Illness Concerns and Damage to the Company's Reputation.
- Concentration of the Company's Restaurants in the Washington, D.C. Region.

Risks Related to Cybersecurity, Information Technology and Data Management

- System Disruptions and Security Threats to the Company's Information Technology Infrastructure.
- Failure to Comply with Privacy Laws or Regulations.

Financial Risks

- Failure to Successfully Integrate Acquired Businesses.
- Changes in Business Conditions.

RISK FACTORS

The Company faces a number of risks and uncertainties in connection with its operations. Described below are the most material risks faced by the Company. These risks and uncertainties may not be the only ones faced by the Company. Additional risks and uncertainties not presently known, or currently deemed immaterial, may adversely affect the Company in the future. In addition to the other information included in this Annual Report on Form 10-K, investors should carefully consider the following risk factors. If any of the events or developments described below occurs, it could have a material adverse effect on the Company's business, financial condition or results of operations.

Risks Related to the COVID-19 Pandemic

- The Company's Business, Results of Operations and Cash Flows Have Been and Will Continue to Be Adversely Impacted by the Effects of the COVID-19 Pandemic, the Significance of Which Will Depend on the Longevity and Severity of the Pandemic.**

The COVID-19 pandemic and measures taken to prevent its spread, such as travel restrictions, shelter in place orders and mandatory closures, have materially affected the Company's businesses, including the demand for its products and services. Travel restrictions and school closures have impeded and will continue to impede the ability of students to travel to undertake overseas study or to accept a place or remain in their student halls of residence as long as they remain in place, and have reduced student applications for programs offered by Kaplan International's (KI) operations and halls of residence, including Kaplan Languages Group, KI Pathways, Kaplan Australia, Kaplan Singapore, MPW and certain KNA preparation programs that recruit foreign students. Instruction moving online reduced demand for halls of residence for international students and where such demand continued to exist in the first half of 2021, students sought discounts for periods they had not been able to stay in their accommodations due to COVID-19 travel restrictions. Further lockdowns or other measures in response to COVID-19 variants could negatively affect demand for housing and may result in residents again seeking discounts for periods they had not been able to stay in their accommodations. Travel restrictions, decreased enrollments and delays and cancellations of standardized tests have, and are expected to continue to, materially adversely affect the Company's revenues, operating results and cash flows. Manufacturing restrictions, including plant closures and disruptions in the Company's supply chains, declines in demand for products and advertising, restaurant and live art fair closures, competition for labor and COVID-19 absenteeism, and other developments related to the COVID-19 pandemic have also adversely impacted the Company's media, manufacturing, healthcare, automotive and other businesses. For example, at certain periods during the pandemic, the Company had to temporarily close all of its restaurants and entertainment venues pursuant to government orders, before later obtaining permission to resume indoor dining services. The long-term impact of the pandemic on public demand for crowded dining facilities cannot be predicted. Moreover, the Company cannot predict the duration or scope of the COVID-19 pandemic and what actions will be taken by governmental authorities and other third parties in response to the pandemic and new variants. On January 13, 2022, the U.S. Supreme Court blocked the Occupational Safety and Health Administration (OSHA) emergency temporary standard (ETS) requiring all employers with at least 100 employees to mandate vaccination or weekly testing for unvaccinated employees. In a separate decision, the U.S. Supreme Court allowed the federal Centers for Medicare & Medicaid Services (CMS) to enforce a vaccination mandate for healthcare employees at facilities receiving Medicare or Medicaid payments. Additional vaccine mandates may be announced in jurisdictions in which the Company's businesses operate. Vaccination mandates and other government mandated restrictions, such as density limitations and travel restrictions, may result in employee attrition and difficulty in meeting labor needs. The Company expects the COVID-19 pandemic and related developments to negatively impact its financial results and such impact is expected to be material to the Company's financial results, operations and cash flows. Additionally, to the extent the COVID-19 pandemic adversely affects the Company's business operations, financial condition or operating results, it may also have the effect of heightening many of the other risks described in this "Risk Factors" section.

Risks Related to the Company's Education Business

- Changes in International Regulations and Travel Restrictions Have Materially Adversely Affected and Together with Changes in Sanctions Could Continue to Materially Adversely Affect International Student Enrollments and Kaplan's Business.**

Kaplan is subject to a wide range of laws and regulations relating to its international operations. These include domestic laws with extraterritorial reach, such as the U.S. Foreign Corrupt Practices Act, international laws, such as the U.K. Bribery Act, as well as the local regulatory regimes of the countries in which Kaplan operates. These laws and regulations change frequently. Failure to comply with these laws and regulations could result in significant penalties or the revocation of Kaplan's authority to operate in the applicable jurisdiction, each of which could have a material adverse effect on Kaplan's operating results.

In response to the COVID-19 pandemic, many governments have imposed student travel restrictions (applicable to exit and entry), made recommendations for their students to return home and closed physical campus locations, and many state and professional bodies have postponed or canceled examination dates related to state examinations and professional education programs, all of which have materially adversely affected Kaplan International's operations and resulted in significant losses at Kaplan Languages Group. The emergence of new variants of COVID-19, and consequential changes to travel and study arrangements could further negatively affect Kaplan International and its operating results. Further changes to the regulatory environment, including changes to government policy or practice in oversight and enforcement, or other factors, including geopolitical instability, imposition or extension of international sanctions, a natural disaster or pandemic in either the students' countries of origin or countries in which they desire to study, could continue to negatively affect Kaplan's ability to attract and

retain students and negatively affect Kaplan's operating results. Additionally, increasingly, governments have begun imposing sales taxes on digital services, such as education, offered in their jurisdictions by foreign providers. Any significant changes to availability of government funding for education, visa policies or other administrative immigration requirements, or the tax environment, including changes to tax laws, policies and practices, in any one or more countries in which KI operates or makes its services available could negatively affect its operating results.

KI's operations, institutions and programs in the U.S. may be subject to state-level regulation and oversight by state regulatory agencies, whose approval or exemption from approval is necessary to allow an institution to operate in the state. These agencies may establish standards for instruction, qualifications of faculty, location and nature of facilities, financial policies and responsibility and other operational matters. Institutions that seek to admit international students are required to be federally certified and legally authorized to operate in the state in which the institution is physically located in order to be allowed to issue the relevant documentation to permit international students to obtain a visa.

A substantial portion of KI's revenue comes from programs that prepare international students to study and travel in English-speaking countries. In 2021, university preparation programs were principally delivered in Australia, Singapore and the U.K. KI's ability to enroll students in these programs is directly dependent on its ability to comply with complex regulatory environments. For example, the impact of Brexit on KI over time will depend on the agreed terms of the U.K.'s withdrawal from the EU. Uncertainty over the impact and terms of Brexit trade deals may materially diminish interest in traveling to the U.K. for study. If the U.K. is no longer viewed as a favorable study destination, KI's ability to recruit international students would be adversely impacted, which would materially adversely affect KI's results of operations and cash flows.

Revised U.K. immigration rules became effective on January 1, 2021, as the Brexit transition was completed. Effective January 1, 2021, all international students, including EEA and Swiss students studying in the U.K. for more than six months, are included in the Student Route, unless they are undertaking an English language course under a Short-Term Study visa of up to 11 months. Free movement ceased between the EEA (together with Switzerland) and the U.K.; students from these countries entering the U.K. are now subject to the same U.K. immigration rules as students from outside the EEA and Switzerland. EEA and Swiss nationals commencing a higher education course in England from August 2021 will no longer qualify for home fee status or have access to financial support from Student Finance England. It is unclear how international student recruitment agents and prospective international students may view the U.K. as a study destination after the introduction of any new immigration requirements and the U.K.'s exit from the EU. The introduction of revised immigration rules has historically increased, and may continue to increase, KI's operating costs in the U.K. The introduction of new visa and other administrative requirements for entry into the U.K., Brexit and the perception of the U.K. as a less favorable study destination may have a materially adverse impact on KI's ability to recruit international students and KI's results of operations and cash flows.

Changes to levels of direct and indirect government funding for international education programs would also materially affect the success of KI's operations. For example, if access to student loans or other funding were to be lost for KI operations that admit students who are entitled to receive the benefit of this funding, Kaplan's operating results could be materially adversely affected.

In January 2021, President Biden reversed a previously enacted ban on travel from certain countries to the U.S. and directed the State Department to restart visa processing for individuals from the affected countries. There have since been new, unrelated travel restrictions into the U.S. due to COVID-19, and those restrictions can be expected to continue changing. On September 25, 2020, the previous U.S. presidential administration proposed significant changes to the visa rules governing entry of non-immigrant academic students and exchange visitors. In July 2021, the Biden administration formally withdrew the notice of proposed rulemaking regarding these changes. Nevertheless, negative perceptions regarding travel to the U.S. could continue to have a significant negative impact on KI's ability to recruit international students, and Kaplan's business could be adversely and materially affected. In 2018, the Australian government introduced legislation that requires higher-level education standards, a compulsory national exam and increased continuing professional development requirements for all financial advisers in Australia. It had been expected that the new requirements could result in financial advisers leaving the industry, which would have resulted in a loss of those existing students for Kaplan Professional Australia. Although advisers did leave the industry, the market leading position of Kaplan Professional meant that its student numbers actually increased. In 2021, the numbers of advisers pursuing compulsory education upgrades slowed as advisers focused on completing the national exam requirement before a year-end deadline. As predicted, there has been a loss of existing advisers as a result of their unwillingness to meet the new standards. Although Kaplan Professional was able to increase its market share due, in part, to the increased annual continuing education development requirements, the legislation has had a negative impact on results of operations.

- **Difficulties of Managing Foreign Operations and Failure to Comply with Foreign Regulatory Requirements Have Negatively Impacted and Could Continue to Negatively Affect Kaplan's Business.**

Kaplan has operations and investments in a growing number of foreign countries and regions, including Australia, Canada, the People's Republic of China, Colombia, France, Germany, Hong Kong, India, Ireland, Japan, Myanmar (in which operations are in the process of being closed), New Zealand, Nigeria, Saudi Arabia, Singapore, the U.K. and the United Arab Emirates. Operating in foreign countries and regions presents a number of inherent risks, including the difficulties of complying with unfamiliar laws and regulations, effectively managing and staffing foreign operations, successfully navigating local customs and practices, preparing for potential political and economic instability and adapting to currency exchange rate fluctuations. Failure to effectively manage these risks could have a material adverse effect on Kaplan's operating results.

In June 2021, the Committee for Private Education (CPE) in Singapore instructed Kaplan Singapore to cease new enrollments for three marketing diploma programs on both a full and part-time basis due to noncompliance with minimum entry level requirements for admission and to teach out existing students in these programs. On August 23, 2021, the CPE issued the same instructions with respect to the Kaplan Foundation diploma and four information technology diploma programs on both a full and part-time basis. In November 2021, the CPE issued the same instructions with respect to a further 23 full-time or part-time diploma programs. Post regulatory action, Kaplan Singapore is currently still able to offer 449 programs that are registered with the CPE, out of which there are 16 diploma programs, 361 bachelors programs, with the balance comprising certificate and postgraduate courses. Kaplan Singapore will apply for re-registration of diploma programs in 2022. The impact from regulatory actions by the CPE will have a significant adverse impact on Kaplan Singapore's revenues, operating results and cash flows in the future. No assurance can be given that applications for re-registration of the impacted programs will be successful. An inability to re-register one or more impacted programs could have a further material adverse effect on Kaplan Singapore's revenues, operating results and cash flows.

- **Changes in U.K. Tax Laws Could Have a Material Adverse Effect on Kaplan International.**

The UK Pathways Colleges located in England were required to register with the Office for Students (OfS) to ensure they could continue operating as English higher education providers. The UK Pathways Colleges (excluding Glasgow and York) were entered on the OfS register of approved providers with Approved Fee Cap Status in August 2020. These colleges now operate under the regulatory oversight of the OfS. Colleges registered with the OfS under Approved Fee Cap status do not charge students Value Added Tax (VAT) on tuition fees based on a statutory exemption available to Approved Fee Cap providers. The York College forms part of the University of York's Approved Fee Cap registration. If KI Pathways were to lose its Approved Fee Cap status with the OfS, KI Pathways Colleges' financial results may be materially adversely impacted.

The Glasgow College is not currently included in the OfS registration as it is located in Scotland. Under a different statutory VAT exemption, bodies which qualify for VAT purposes as "colleges of a university" are able to exempt their tuition fees from VAT, and UK Pathways Glasgow College applies this status. In 2019, a tax case was determined by the U.K. Supreme Court on the meaning of "college of a university." The U.K. Supreme Court decided the case in the college's favor. The result was more favorable to private providers working in collaboration with a university. The U.K. Supreme Court emphasized five principal tests for a private provider to meet, for it to be sufficiently integrated with a university, to qualify as a "college of a university" even if it does not have a constitutional link to the university. Although the focus on these five tests has now been incorporated into official Her Majesty's Revenue and Customs (HMRC) guidance, it is not yet clear how HMRC will apply the Supreme Court judgment and the five key tests in practice. If the HMRC's application of the Supreme Court judgment and the five key tests deems Glasgow International College not to constitute a "college of a university" and not entitled to a VAT exemption, KI Pathways Colleges' financial results may be materially adversely impacted if they are not able to meet any new requirements.

Following the departure of the U.K. from the EU on December 31, 2020, the U.K. may further develop its VAT rules in this complex area separate from the EU rules. Kaplan is closely monitoring this area.

- **Failure to Comply with Statutory and Regulatory Requirements as a Third-Party Servicer to Title IV Participating Institutions Could Result in Monetary Liabilities or Subject Kaplan to Other Material Adverse Consequences.**

KNA provides services to Purdue Global, Purdue University and other Title IV participating institutions. KNA also provides financial aid services to Purdue Global, and as such, KNA meets the definition of a "third-party servicer" for Purdue Global contained in Title IV regulations. As a result, KNA is subject to applicable statutory provisions of Title IV and ED regulations that, among other things, require Kaplan to be jointly and severally liable with its Title IV participating client institution(s) to the ED for any violation by such client institution(s) of any Title IV statute or ED regulation or requirement. Separately, if KNA provides financial aid services to more than one Title IV participating institution, it will be required to arrange for an independent auditor to conduct an annual Title IV audit of KNA's

compliance with applicable ED requirements. KNA is also subject to other federal and state laws, including federal and state consumer protection laws and rules prohibiting unfair or deceptive marketing practices; data privacy, data protection and information security requirements established by federal, state and foreign governments, including, for example, the Federal Trade Commission; and applicable provisions of the Family Educational Rights and Privacy Act regarding the privacy of student records.

Failure to comply with these and other federal and state laws and regulations could result in adverse consequences, including, for example:

- The imposition on Kaplan of fines, other sanctions or liabilities, including repayment obligations for Title IV funds to the ED or the termination or limitation of Kaplan's eligibility to provide services as a third-party servicer to any Title IV participating institution if KNA fails to comply with statutory or regulatory requirements applicable to such service providers;
- Adverse effects on Kaplan's business and operations from a reduction or loss in KNA's revenues under the TOSA or any other agreement with any Title IV participating institution if a client institution loses or has limits placed on its Title IV eligibility, accreditation, operations or state licensure or is subject to fines, repayment obligations or other adverse actions owing to noncompliance by KNA (or the institution) with Title IV, accreditor, federal or state agency requirements;
- Liability under the TOSA or any other agreement with any Title IV participating institution for noncompliance with federal, state or accreditation requirements arising from KNA's conduct; and
- Liability for noncompliance with Title IV or other federal or state requirements occurring prior to the transfer of KU to Purdue.

Although KNA endeavors to comply with all U.S. Federal and state laws and regulations, KNA cannot guarantee that its implementation of the relevant rules will be upheld by the ED or other agencies or upon judicial review. The laws, regulations and other requirements applicable to KNA and its client institutions are subject to change and to interpretation. In addition, there are other factors related to KNA's client institutions' compliance with federal, state and accrediting agency requirements, some of which are outside of KNA's control, that could have a material adverse effect on KNA's client institutions' revenues and, in turn, on KNA's operating results.

• Failure to Comply with the ED's Title IV Incentive Compensation Rule Could Subject Kaplan to Liabilities, Sanctions and Fines.

Under the ED's incentive compensation rule, an institution participating in Title IV programs may not provide any commission, bonus or other incentive payment to any person or entity engaged in any student recruiting or admission activities or in making decisions regarding the awarding of Title IV funds if such payment is based directly or indirectly on success in securing enrollments or financial aid. KNA is a third party providing bundled services to Title IV participating institutions, including recruiting and, in the case of Purdue Global, financial aid services. As such, KNA is also subject to the incentive compensation rule and cannot provide any commission, bonus or other incentive payment to any covered employees, subcontractors or other parties engaged in certain student recruiting, admission or financial aid activities based on success in securing enrollments or financial aid. In addition, Purdue Global's payments to KNA under the TOSA (as well as any other agreement with any Title IV participating institution) must comply with revenue sharing guidance provided by the ED related to bundled services agreements. In 2011 guidance, the ED provided that in certain arrangements with Title IV participating institutions where student recruiting services are "bundled" with other non-recruiting services, revenue sharing may be allowable despite the incentive compensation rule's general prohibition on such revenue sharing with entities or individuals that provide recruiting services. Because this guidance is not codified in any rule or law, but is instead an ED opinion on the applicability of the incentive compensation rule, such guidance can be revoked at any time and without notice. Some lawmakers and states, such as California, have publicly called for the revocation of this guidance or sought to introduce federal and state legislation seeking to prevent any such revenue sharing. The change of control of the executive branch and Congress in 2021 could increase the likelihood of changes to this guidance and to the incentive compensation rule. As previously described, the TOSA revenue sharing fee provisions are defined as deferred purchase price payments rather than payments for services. KNA's services are paid for as a percentage of KNA's costs of delivering those services to Purdue Global. KNA cannot predict how the ED or a federal court will interpret, revise or enforce all aspects of the incentive compensation rule or the bundled service revenue sharing guidance in the future or how they would be applied to the TOSA or any of KNA's agreements by the ED or in any litigation. Any revisions or changes in interpretation or enforcement could require KNA and its client institutions to change their practices or renegotiate the tuition revenue sharing payment terms of KNA's agreements with such client institutions and could have a material adverse effect on Kaplan's business and results of operations. Additionally, failure to comply with the incentive compensation rule could result in litigation or enforcement actions against KNA or its clients and could result in liabilities, fines or other sanctions against KNA or its clients, which could have a material adverse effect on Kaplan's business and results of operations.

- **Failure to Comply with the ED's Title IV Misrepresentation Regulations Could Subject Kaplan to Liabilities, Sanctions and Fines.**

A Title IV participating institution is required to comply with the ED regulations related to misrepresentations and with related federal and state laws. These laws and regulations are broad in scope and may extend to statements by servicers, such as KNA, that provide marketing or certain other services to such institutions. These laws and regulations may also apply to KNA's employees and agents, with respect to statements addressing the nature of an institution's programs, financial charges or the employability of its graduates. KNA provides certain marketing and other services to Title IV participating institutions. The failure to comply with these or other federal and state laws and regulations regarding misrepresentation and marketing practices could result in the imposition on KNA or its client institutions of fines, other sanctions or liabilities, including federal student aid repayment obligations to the ED, the termination or limitation of Kaplan's eligibility to provide services as a third-party servicer to Title IV participating institutions, the termination or limitation of a client institution's eligibility to participate in the Title IV programs, or legal action by students or other third parties. A violation of misrepresentation regulations or other federal or state laws and regulations applicable to the services KNA provides to its client institutions arising out of statements by KNA, its employees or agents could require KNA to pay the costs associated with indemnifying its client institutions from applicable losses resulting from the violation or could result in termination by such client institutions of their services agreements with KNA.

- **Compliance Reviews, Program Reviews, Audits and Investigations, Including in Connection with Borrower Defense to Repayment Claims, Could Result in Findings of Noncompliance with Statutory and Regulatory Requirements and Result in Liabilities, Sanctions and Fines.**

KNA and its client institutions are subject to reviews, audits, investigations and other compliance reviews conducted by various regulatory agencies and auditors, including, among others, the ED, the ED's Office of the Inspector General, accrediting bodies and state and various other federal agencies. These compliance reviews can result in findings of noncompliance with statutory and regulatory requirements that can, in turn, result in the imposition of fines, liabilities, civil or criminal penalties or other sanctions against KNA and its client institutions, which could have an adverse effect on Kaplan's financial results and operations. Separately, if KNA provides financial aid services to more than one Title IV participating institution, it will be required to arrange for an independent auditor to conduct an annual Title IV compliance audit of KNA's compliance with applicable ED requirements. KNA's client institutions are also required to arrange for an independent auditor to conduct an annual Title IV audit of their compliance with applicable ED requirements, including requirements related to services provided by KNA.

On September 3, 2015, Kaplan sold substantially all of the assets of the former Kaplan Higher Education Campuses (KHE Campuses). As part of the transaction, similar to the transfer of KU, Kaplan retained liability for the pre-sale conduct of the KHE schools. Although Kaplan no longer owns KU or the former KHE Campuses, Kaplan may be liable to the current owners of KU and the former KHE Campuses, for the pre-sale conduct of the schools, and the pre-sale conduct of the schools has been and could be the subject of future compliance reviews, regulatory proceedings or lawsuits that could result in monetary liabilities or fines or other sanctions.

On May 6, 2021, Kaplan received a notice from the ED that it would be conducting a fact-finding process pursuant to the borrower defense to repayment regulations to determine the validity of more than 800 borrower defense to repayment claims and a request for documents related to several of Kaplan's previously owned schools. Beginning in July 2021, Kaplan started receiving the claims and related information requests. In total, Kaplan received 1,449 borrower defense applications that seek discharge of approximately \$35 million in loans. Most claims received are from former KU students. The ED's process for adjudicating these claims is subject to the borrower defense regulations but it is not clear to what extent the ED will exclude claims based on the underlying statutes of limitations, evidence provided by Kaplan, or any prior investigation related to schools attended by the student applicants. Kaplan believes it has defenses that would bar any student discharge or school liability including that the claims are barred by the applicable statute of limitations, unproven, incomplete and fail to meet regulatory filing requirements. Kaplan expects to vigorously defend any attempt by the ED to hold Kaplan liable for any ultimate student discharges and is responding to all claims with documentary and narrative evidence to refute the allegations, demonstrate their lack of merit, and support the denial of all such claims by the ED. If the claims are successful, the ED may seek reimbursement for the amount discharged from Kaplan. If the ED initiates a reimbursement action against Kaplan following approval of former students' borrower defense to repayment applications, Kaplan may be subject to significant liability.

- **Noncompliance with Regulations by KNA's Client Institutions May Adversely Impact Kaplan's Results of Operations.**

KNA currently provides services to higher education institutions that are heavily regulated by federal and state laws and regulations and by accrediting bodies. Currently, a substantial portion of KNA's revenue is attributable to service fees and deferred purchase price payments it receives under its agreement with Purdue Global, which are dependent upon revenue generated by Purdue Global and upon Purdue Global's eligibility to participate in the Title

IV federal student aid program. To maintain Title IV eligibility, Purdue Global and KNA's other client institutions must be certified by the ED as eligible institutions, maintain authorizations by applicable state education agencies and be accredited by an accrediting commission recognized by the ED. Purdue Global and KNA's other client institutions must also comply with the extensive statutory and regulatory requirements of the Higher Education Act and other state and federal laws and accrediting standards relating to their financial aid management, educational programs, financial strength, disbursement and return of Title IV funds, facilities, recruiting practices, representations made by the school and other parties, and various other matters. Additionally, Purdue Global and other client institutions are subject to laws and regulations that, among other things, limit student default rates on the repayment of Title IV loans; permit borrower defenses to repayment of Title IV loans based on certain conduct of the institution; establish specific measures of financial responsibility and administrative capability; regulate the addition of new campuses and programs and other institutional changes; require compliance with state professional licensure board requirements to the extent applicable to institutional programs; and require state authorization and institutional and programmatic accreditation. In addition, the Coronavirus Aid, Relief, and Economic Security (CARES) Act, the Consolidated Appropriations Act of 2021, and subsequent guidance from the ED have created changes in the administration of federal financial assistance programs, the interpretation of which may not yet be fully understood.

If the ED finds that Purdue Global or any other KNA client institution has failed to comply with Title IV requirements or improperly disbursed or retained Title IV program funds, it may take one or more of a number of actions, including fining the school, requiring the school to repay Title IV program funds, limiting or terminating the school's eligibility to participate in Title IV programs, initiating an emergency action to suspend the school's participation in the Title IV programs without prior notice or opportunity for a hearing, transferring the school to a method of Title IV payment that would adversely affect the timing of the institution's receipt of Title IV funds, requiring the school to submit a letter of credit, denying or refusing to consider the school's application for renewal of its certification to participate in the Title IV programs or for approval to add a new campus or educational program and referring the matter for possible civil or criminal investigation. There can be no assurance that the ED will not take any of these or other actions in the future, whether as a result of lawsuits, program reviews or otherwise. In addition, on October 15, 2021, Purdue Global received from the ED a new PPPA granting provisional certification until June 30, 2022. Under this PPPA, Purdue Global must apply for and receive approval for expansion or any substantial change before it may award, disburse or distribute Title IV funds based on the substantial change. Substantial changes generally include, but are not limited to: (a) establishment of an additional location; (b) increase in the level of academic offering beyond those listed in the institution's Eligibility and Certification Approval Report (ECAR); (c) addition of any educational program (including degree, non-degree or short-term training programs), or (d) the addition of any new degree program. In addition, the institution must pay any liabilities found in a currently open program review prior to the expiration of the PPPA. The provisional certification ends upon the ED's notification to the institution of the ED's decision to grant or deny a six-year certification to participate in the Title IV, HEA programs. If Purdue Global or another KNA client institution loses or has limits placed on its Title IV eligibility, accreditation or state licensure, or if Purdue Global or another KNA client institution is subject to fines, repayment obligations or other adverse actions owing to its or Kaplan's noncompliance with Title IV regulations, accreditor or state agency requirements, or other state or federal laws, Kaplan's financial results of operations could be adversely affected. Additionally, as a prior owner of Title IV institutions, KNA may retain certain liability for student loans related to the current BDTR applications described above or future similar applications.

In turn, any of the aforementioned consequences could have a material adverse effect on Kaplan's operating results even though such institution's compliance is affected by circumstances beyond Kaplan's control, including, for example:

- a reduction or loss in KNA's revenues under the TOSA or other client agreements if Purdue Global or any other KNA client institution loses or has limits placed on its Title IV eligibility, accreditation or state licensure;
 - a reduction or loss in KNA's revenues under the TOSA or other client agreements if Purdue Global or any other client institution is subject to fines, repayment obligations or other adverse actions owing to noncompliance by Purdue Global (or Kaplan) with Title IV, accreditor or state agency requirements;
 - the imposition on KNA of fines or repayment obligations to the ED or the termination or limitation on Kaplan's eligibility to provide services to Purdue Global or other Title IV participating institutions if findings of noncompliance by Purdue Global or such other institution result in a determination that Kaplan failed to comply with statutory or regulatory requirements applicable to service providers; and
 - liability under the TOSA or other client agreements for noncompliance with federal, state or accreditation requirements arising from KNA's conduct.
- **Kaplan May Fail to Realize the Anticipated Benefits of the Purdue Global Transaction.**

Kaplan's ability to realize the anticipated benefits of the Purdue Global transaction will depend, in part, on its ability to successfully and efficiently provide services to Purdue Global. Achieving the anticipated benefits is subject to a

number of uncertainties, including whether the services can be provided in the manner and at the cost Kaplan anticipated and whether Purdue Global is able to realize anticipated student enrollment levels. If Kaplan is unable to effectively execute its post-transaction strategy, it may take longer than anticipated to achieve the benefits of the transaction or it may not realize those benefits at all. In 2022 Purdue Global began working with KNA to provide certain human resources, finance and accounting, facility management, and communications services itself, in-house.

- **Regulatory Changes and Developments Could Negatively Impact Kaplan's Results of Operations.**

Any legislative, regulatory or other development that has the effect of materially reducing the amount of Title IV financial assistance or other federal, state or private financial assistance available to the students of Purdue Global or any other client institution could have a material adverse effect on Kaplan's business and results of operations. In addition, any development that has the effect of making the terms on which Title IV financial assistance or other financial assistance funds are available to Purdue Global's or other client institutions' students materially less attractive could have a material adverse effect on Kaplan's business and results of operations.

The laws, regulations and other requirements applicable to KNA or any KNA client institutions are subject to change and to interpretation. Regulatory activity in 2022 may include possible restrictions on revenue sharing arrangements with universities, as discussed above, which could impact KNA Higher Education managed service provider contracts with Purdue, Purdue Global, Wake Forest and other client institutions. Additional regulatory, policy or legal changes could include imposing outcome metrics on universities, a form of free community college, changes to the financial aid system, and the reinstatement of broader borrower defenses to loan repayment. In addition, a Negotiated Rulemaking began in October 2021 that covered, in part, rules related to the borrower defense to repayment adjudication process and recovery from institutions, closed school loan discharges, disability loan discharges, public loan forgiveness, income driven repayment plans and arbitration agreements. As part of this current Rulemaking, in a session that began in January 2022, the ED also proposed a change to the Title IV definition of "Nonprofit" institution to generally exclude from that definition any institution that is an obligor on a debt owed to a former owner of the institution or maintains a revenue-based service agreement with a former owner of the institution. Such regulatory changes as well as those described above could subject Purdue Global to additional regulatory requirements. Any resulting new rules or changes to existing rules are not likely to be effective until July 1, 2023. In addition, there are other factors related to Purdue Global's and other client institutions' compliance with federal, state and accrediting agency requirements—many of which are largely outside of Kaplan's control—that could have a material adverse effect on Purdue Global's and other client institutions' revenues and, in turn, on Kaplan's operating results, including, for example:

Reduction in Title IV or other federal, state or private financial assistance: KNA receives revenue based on its agreements with client institutions and particularly revenue from Purdue Global under the TOSA. Purdue Global is expected to derive a significant percentage of its tuition revenues from its participation in Title IV programs. Any legislative, regulatory or other development that materially reduces the amount of Title IV, federal, state or private financial assistance available to the students of Purdue Global and other client institutions could have a material adverse effect on Kaplan's business and results of operations. In addition, any development that makes the terms of such financial assistance less attractive could have a material adverse effect on Kaplan's business and results of operations.

Compliance reviews and litigation: Institutions participating in the Title IV programs, including Purdue Global and other client institutions, are subject to program reviews, audits, investigations and other compliance reviews conducted by various regulatory agencies and auditors, including, among others, the ED, the ED's Office of the Inspector General, accrediting bodies and state and various other federal agencies, as well as annual audits by an independent certified public accountant of compliance with Title IV statutory and regulatory requirements. Purdue Global and other client institutions also may be subject to various lawsuits and claims related to a variety of matters, including but not limited to alleged violations of federal and state laws and accrediting agency requirements. These compliance reviews and litigation matters could extend to activities conducted by KNA on behalf of Purdue Global or other client institutions and to KNA itself as a third-party servicer subject to Title IV regulations.

Legislative and regulatory change: Congress periodically revises the Higher Education Act and other laws and enacts new laws governing the Title IV programs and annually determines the funding level for each Title IV program and may make changes in the laws at any time. The ED and other federal and state agencies also may issue new regulations and guidance or change their interpretation of regulations at any time. For example, on September 23, 2019, the ED released new final regulations affecting the ability of student borrowers to obtain discharges of their obligations to repay certain Title IV loans that were first disbursed on or after July 1, 2020, and loans disbursed between July 2017 and July 1, 2020. The new regulations, among other things, expand the ability of borrowers to obtain loan discharges based on substantial misrepresentations. Application of these regulations to Purdue Global or other client institutions could materially affect revenue and result in liabilities to the ED. In addition, application of these regulations

to KNA for loans disbursed between July 1, 2017, and March 22, 2018, the close of the Purdue Global transaction, could materially affect Kaplan's revenues. Additionally, changes to the ability of students to discharge loans owing to prior school closures could impose liability on Kaplan for loans made to students at institutions previously owned by Kaplan and closed during Kaplan's ownership. ED also published final regulations on September 2, 2020, regarding distance education and various other matters. Any action by Congress or the ED that significantly reduces funding for Title IV programs or the ability of Purdue Global or other client institutions to receive funding through these programs could reduce Purdue Global's or other client institutions' enrollments and tuition revenues and, in turn, the revenues KNA receives under the TOSA or other agreements. Any action by Congress or the ED that impacts the ability of Purdue Global to contract with KNA to receive a share of revenue as deferred payment for the sale of KU or the ability of KNA to contract with any client institution to provide bundled services in exchange for a share of tuition revenue could require KNA to modify the TOSA, other agreements or its practices and could impact the revenues KNA may receive under such agreements. Congress, the ED and other federal and state regulators may create new laws or take actions that may require Purdue Global, other client institutions or KNA to modify practices in ways that could have a material adverse effect on Kaplan's business and results of operations.

Increased regulatory scrutiny of postsecondary education and service providers: The increased scrutiny of online schools that offer programs similar to those offered by Purdue Global or other client institutions and of service providers that provide services similar to Kaplan's has resulted, and may continue to result, in additional enforcement actions, investigations and lawsuits by the ED, other federal agencies, Congress, state Attorneys General and state licensing agencies. Recent enforcement actions have resulted in substantial liabilities, restrictions and sanctions and in some cases have led to the loss of Title IV eligibility and closure of institutions. The change of control of the executive branch and Congress in 2021 could increase the amount of regulation and scrutiny of service companies like Kaplan and online schools like Kaplan's client institutions. This increased activity and other current and future activity may result in further legislation, rulemaking and other governmental actions affecting the amount of student financial assistance for which Purdue Global's or other client institutions' students are eligible, or Kaplan's participation in Title IV programs as a third-party servicer to Purdue Global or such other client institutions. In addition, increased scrutiny and legislative proposals restricting the ability of entities like KNA that provide certain admissions related services to Title IV participating institutions under revenue sharing arrangements could impact KNA agreements. Such scrutiny could result in requests to Kaplan for information or negative publicity that could adversely affect KNA and its client institutions.

- **Changes in the Extent to Which Standardized Tests Are Used in the Admissions Process by Colleges or Graduate Schools and Increased Competition Could Reduce Demand for KNA Supplemental Education Test Preparation Offerings.**

KNA Supplemental Education Exam Preparation provides courses that prepare students for a broad range of admissions examinations that are considered by colleges and graduate schools. Historically, colleges and graduate schools have required standardized tests as part of the admissions process. As a result of the COVID-19 pandemic, a number of colleges and graduate schools have waived standardized tests as part of the admissions process for the upcoming academic year or longer. These changes have had a negative impact on KNA's results of operations for the test preparation products. In addition, there had already been some movement away from the historical reliance on standardized admissions tests among certain colleges, which have phased out admissions tests, are in the process of phasing out admissions tests or have adopted "test-optional" admissions policies. Moreover, as a part of a settlement in a lawsuit brought by students in 2019, a large public university will no longer use the SAT and ACT for admissions or scholarship decisions for its system of 10 schools. Any significant reduction in the use of standardized tests in the college or graduate school admissions processes could have an adverse effect on Kaplan's operating results.

Additionally, KNA faces increased competition from competitors offering lower-cost or free test prep products that may be used by students to piece together alternatives to traditional comprehensive test prep programs. Kaplan's operating results may be adversely affected if student demand for KNA's traditional comprehensive programs shifts to KNA's lower-cost, standalone offerings, or if competitors offer lower-cost, standalone offerings or free test prep products that are more attractive to students than KNA's products.

- **Postponement and Cancellation of Examinations and Changes in the Extent to Which Licensing and Proficiency Examinations Are Used to Qualify Individuals to Pursue Certain Careers Could Reduce Demand for Kaplan's Offerings.**

A material portion of KNA's and KI's revenue comes from preparing individuals for licensing or technical proficiency examinations in various fields. Any significant relaxation or elimination of licensing or technical proficiency requirements in those fields served by KNA's and KI's businesses could negatively affect Kaplan's operating results. As a result of the COVID-19 pandemic, a number of professional certification examinations have been cancelled or

permanently altered. While the impact of these changes on Kaplan's operations improved in 2021 relative to 2020, further changes and impacts on student timing due to the pandemic may impact Kaplan's results.

- **Liability under Real Estate Lease Guarantees for Certain Real Estate Leases that were Assigned to Education Corporation of America Could Have a Material Adverse Effect on the Company's Results.**

On September 3, 2015, Kaplan sold to ECA substantially all of the assets of the KHE Campuses. The transaction included the transfer of certain real estate leases that were guaranteed or purportedly guaranteed by Kaplan. ECA is currently in receivership, has terminated all of its higher-education operations and has sold most, if not all, of its remaining assets (including New England College of Business). Additionally, the receiver has repudiated all of ECA's real estate leases. Although ECA is required to indemnify Kaplan for any amounts Kaplan must pay due to ECA's failure to fulfill its obligations under the real estate leases guaranteed by Kaplan, ECA's current financial condition and the amount of secured and unsecured creditor claims outstanding against ECA make it unlikely that Kaplan will recover from ECA. If Kaplan is not successful in mitigating these liabilities, the Company's results could be materially adversely impacted. In the second half of 2018, the Company recorded an estimated \$17.5 million in losses on guarantor lease obligations in connection with this transaction in other non-operating expense. The Company recorded an additional estimated \$1.1 million in non-operating expense in 2019 and \$1 million in non-operating expense in 2020, and \$1.1 million in non-operating expense in 2021, in each case consisting of legal fees and lease costs. The Company continues to monitor the status of these obligations.

Risks Related to the Company's Television Broadcasting and Media Businesses

- **Changing Perceptions about the Effectiveness of Television Broadcasting in Delivering Advertising Could Adversely Affect the Profitability of Television Broadcasting.**

Historically, television broadcasting has been viewed as a cost-effective method of delivering various forms of advertising. There can be no guarantee that this historical perception will guide future decisions by advertisers. To the extent that advertisers shift advertising expenditures away from television to other media outlets, the profitability of the Company's television broadcasting business could be adversely affected.

- **Increased Competition Resulting from Technological Innovations in News, Information and Video Programming Distribution Systems and Changing Consumer Behavior Could Adversely Affect the Company's Operating Results.**

The continuing growth and technological expansion of internet-based services has increased competitive pressure on the Company's media businesses. Examples of such developments include online delivery of programming, technologies that enable users to fast-forward or skip advertisements and devices that allow users to consume content on demand and in remote locations while avoiding traditional commercial advertisements or cable and satellite subscriptions. Changing consumer behavior may also put pressure on the Company's media businesses to change traditional distribution methods. The Company obtains significant revenue from its retransmission consent agreements with traditional cable and satellite distributors. These payments are on a per-subscriber basis and payments to the Company may decrease as customers "cut the cord" and cancel their cable and satellite subscriptions. The Company also receives payments for distribution of its stations' signals on certain online "over-the-top" services, however these revenues may be less than those from traditional cable and satellite distribution. Anticipating and adapting to changes in technology and consumer behavior on a timely basis will affect the Company's media businesses' ability to continue to increase their revenue. The development and deployment of new technologies and changing consumer behavior have the potential to negatively and significantly affect the Company's media businesses in ways that cannot now be reliably predicted and that may have a material adverse effect on the Company's operating results.

- **Changes in the Nature and Extent of Government Regulations Could Adversely Affect the Company's Television Broadcasting Business and Other Businesses.**

The Company's television broadcasting business operates in a highly regulated environment. Complying with applicable regulations has significantly increased, and may continue to increase, the costs, and has reduced the revenues, of the business. Changes in regulations have the potential to negatively impact the television broadcasting business, not only by increasing compliance costs and reducing revenues through restrictions on certain types of advertising, limitations on pricing flexibility or other means, but also by possibly creating more favorable regulatory environments for the providers of competing services. In addition, changes to the FCC's rules governing broadcast ownership may affect the Company's ability to expand its television broadcasting business and/or may enable the Company's competitors to improve their market positions through consolidation. More generally, all of the Company's businesses could have their profitability or their competitive positions adversely affected by significant changes in applicable regulations.

- **Transition to New Technical Standards for Broadcast Television Stations May Alter the Competitive Environment in the Company's Stations' Markets or Cause the Company to Incur Increased Costs.**

The Company cannot predict how the market will react to the new broadcast television station technical standard, ATSC 3.0, as the period for voluntary transition to the new standard has only recently begun, and some of the market rollouts originally planned for 2020 or 2021 have been delayed by the COVID-19 pandemic. Equipment manufacturers began releasing certain TV set models with built-in ATSC 3.0-capable receivers in 2020, but ATSC 3.0-capable consumer devices are not yet widely available in the U.S. As part of the voluntary transition, many station groups are beginning to test ATSC 3.0 streams. Notably, there is a large consortium led by Pearl TV (of which GMG is a member) that has been leading test trials in the Phoenix, Detroit, Portland and other markets. ATSC 3.0 streams are now available in more than 40 markets across the country. Competing stations that transition to ATSC 3.0 may increase competition for the Company's stations and/or create competitive pressure for the Company's stations to launch ATSC 3.0 streams. As noted above, GMG stations' WDIV-TV, WKMG-TV and KPRC-TV have begun broadcasting ATSC 3.0 streams over the course of 2020 and 2021. The transition to ATSC 3.0 may cause the Company to incur substantial costs over time. More generally, the deployment of ATSC 3.0 may have other material effects on the Company's media businesses that cannot now be reliably predicted and that may have a material adverse effect on the Company's operating results.

- **Potential Liability for Intellectual Property Infringement Could Adversely Affect the Company's Businesses.**

The Company periodically receives claims from third parties alleging that the Company's businesses infringe on the intellectual property rights of others. It is likely that the Company will continue to be subject to similar claims, particularly as they relate to its media businesses. Other parts of the Company's business could also be subject to such claims. Addressing intellectual product claims is a time-consuming and expensive endeavor, regardless of the merits of the claims. In order to resolve such claims, the Company may have to change its method of doing business, enter into licensing agreements or incur substantial monetary liability. It is also possible that one of the Company's businesses could be enjoined from using the intellectual property at issue, causing it to significantly alter its operations. Although the Company cannot predict the impact at this time, if any such claim is successful, the outcome would likely affect the business utilizing the intellectual property at issue and could have a material adverse effect on that business's operating results or prospects.

Risks Related to the Company's Manufacturing Businesses

- **Failure to Comply with Environmental, Health, Safety and Other Laws Applicable to the Company's Manufacturing Operations Could Negatively Impact the Company's Business.**

The Company's operations are subject to extensive federal, state and local laws and regulations relating to the environment, as well as health and workplace safety, including those set forth by the OSHA, the Environmental Protection Agency (EPA) and state and local regulatory authorities in the U.S. Such laws and regulations affect operations and require compliance with various environmental registrations, licenses, permits, inspections and other approvals. The Company incurs substantial costs to comply with these regulations, and any failure to comply may expose the Company to civil, criminal and administrative fees, fines, penalties and interruptions in operations that could have a material adverse impact on the Company's results of operations, financial position or cash flows.

- **The Company May Be Subject to Liability Claims That Could Have a Material Adverse Effect on Its Business.**

The Company's manufacturing operations are subject to hazards inherent in manufacturing and production-related facilities. An accident involving these operations or equipment may result in losses due to personal injury; loss of life; damage or destruction of property, equipment or the environment; or a suspension of operations. Insurance may not protect the Company against liability for certain kinds of events, including those involving pollution or losses resulting from business interruption. Any damages caused by the Company's operations that are not covered by insurance, or are in excess of policy limits, could materially adversely affect the Company's results of operations, financial position or cash flows.

- **Failure to Recruit and Retain Production Staff Needed to Meet Customer Demand Could Have a Material Adverse Effect on the Company's Manufacturing Businesses.**

The Company's manufacturing operations are experiencing a highly competitive market for production labor that may limit its ability to meet customer demand. If staffing cannot be hired at a cost-efficient wage rate relative to product pricing, volume will be impacted. In addition, COVID-19 absenteeism and potential vaccine mandates announced in jurisdictions in which the Company's manufacturing businesses operate, will result in employee attrition and difficulty in meeting labor needs. Both factors impacting labor availability could have an adverse effect on future revenues and costs, which could be material.

Risks Related to the Company's Healthcare Business

- **Extensive Regulation of the Healthcare Industry Could Adversely Affect the Company's Healthcare Businesses and Results of Operations.**

The home health and hospice industries are subject to extensive federal, state and local laws, with regulations affecting a wide range of matters, including licensure and certification, quality of services, qualifications of personnel, confidentiality and security of medical records, relationships with physicians and other referral sources, operating policies and procedures, and billing and coding practices. These laws and regulations change frequently, and the manner in which they will be interpreted is subject to change in ways that cannot be predicted.

Reimbursement for services by third-party payers, including Medicare, Medicaid and private health insurance providers, may decline, while authorization, audit and compliance requirements continue to add to the cost of providing those services.

Managed-care organizations, hospitals, physician practices and other third-party payers continue to consolidate in response to the evolving regulatory environment, thereby enhancing their ability to influence the delivery of healthcare services and decreasing the number of organizations serving patients. This consolidation could adversely impact GHG's businesses if they are unable to maintain their ability to participate in established networks. In addition, CSI Pharmacy and Weiss Medical both face risks from manufacturer supply shortages, competitive vertical integration and pricing power, and government intervention on drug pricing.

GHG is also subject to periodic and routine reviews, audits and investigations by federal and state government agencies and private payers, which could result in negative findings that adversely impact the business. CMS increasingly uses third-party, for-profit contractors to conduct these reviews, many of which share in the amounts that CMS denies. These reviews, audits and investigations consume significant staff and financial resources and may take years to resolve.

- **Continued Nursing Staffing Shortages Could Adversely Affect the Growth of the Company's Healthcare Businesses.**

The country's severe shortage of nurses could adversely affect GHG's ability to meet customer demand and may impact its ability to take on new business. In addition, competition to attract new nurses necessitates offering increased wages and benefits, which increases costs.

Risks Related to the Company's Automotive Businesses

- **Termination or Non-renewal of a Dealership Agreement by an Automobile Manufacturer and Limitations on the Company's Ability to Acquire Additional Dealerships Could Adversely Affect the Company's Automotive Business and Results of Operations.**

The Company's automobile dealerships are dependent on maintaining strong relationships with manufacturers, and the Company's ownership and operation of automobile dealerships is subject to its ability to comply with various requirements established by automobile manufacturers. The Company's dealerships operate under separate agreements with each applicable automobile manufacturer.

Manufacturers may terminate their agreements for a variety of reasons, including a dealership's failure to meet a manufacturer's standards for financial and sales performance, customer satisfaction, facilities and the quality of dealership management; and any unapproved change in ownership or management. These agreements also limit the Company's ability to acquire multiple dealerships of the same brand within a particular market and preclude the Company from establishing new dealerships within an area already served by another dealer of the same vehicle brand. In addition, dealerships controlled by related parties of the management team operating the Company's dealerships may restrict the Company's ability to acquire new dealerships within an area in which such dealerships operate. Manufacturers also have the right of first refusal if the Company seeks to sell dealerships and may limit the Company's ability to transfer ownership of a dealership without the prior approval of the manufacturer. Failure to maintain ownership of the dealerships in compliance with manufacturer agreements could constitute a breach of the agreements and could result in termination or non-renewal of existing dealer agreements. If one of the Company's manufacturers does not renew its dealer agreement or terminates the agreement, the Company's dealership would be unable to sell or distribute new vehicles or perform manufacturer authorized warranty service, which would adversely affect the Company's automotive business.

- **Changes Affecting Automobile Manufacturers Could Adversely Affect the Company's Automotive Business.**

The Company's dealerships are dependent on the products and services offered by the brand of automobiles that its dealerships sell. The ability of the Company's dealerships to sell and service these brands may be adversely

affected by negative conditions faced by manufacturers such as negative changes to a manufacturer's financial condition, negative publicity concerning a manufacturer or vehicle model, declines in consumer demand or brand preferences, changes in consumer preferences driven by fuel price volatility, disruptions in production and delivery, including those caused by natural disasters or labor strikes, new laws or regulations, including more stringent fuel economy and greenhouse gas emission standards, and technological innovations in ride-sharing, electric vehicles and autonomous driving. The ability of the Company's dealerships to align with manufacturers and adapt to evolving consumer demand for electric vehicles could adversely affect new and used vehicle sales volumes, parts and service revenue and results of operations.

- **Changes to State Dealer Franchise Laws to Permit Manufacturers to Enter the Retail Market Directly and Technological Innovations Could Adversely Impact the Company's Traditional Dealership Model.**

Changes to state dealer franchise laws to permit the sale of new vehicles without the involvement of franchised dealers could adversely affect the Company's dealerships. Certain manufacturers have been challenging state dealer franchise laws in many states and some have expressed interest in selling directly to customers. The Company's dealership model could be adversely affected if new vehicle sales are allowed to be conducted on the internet without the involvement of franchised dealers.

- **Changes in a Manufacturer's Incentive Programs Could Adversely Affect the Dealerships' Sales Volume and Profit Margins.**

Automobile manufacturers offer various marketing and sales incentive programs to promote and support new vehicle sales. These programs include customer rebates, dealer incentives on new vehicles, employee pricing, manufacturer floor plan interest assistance, advertising assistance and product warranties. A reduction or discontinuation of a manufacturer's incentive programs could adversely affect vehicle demand and results of operations.

- **Changes in Environmental Regulations Governing the Operations of the Automotive Business Could Result in Increased Costs.**

The Company is subject to a wide range of environmental laws and regulations, including those governing discharges into the air and water, the operation and removal of above-ground and underground storage tanks, the use, handling, storage and disposal of hazardous substances and other materials, and the investigation and remediation of environmental contamination at facilities that are owned or operated. The business involves the generation, use, handling and contracting for recycling or disposal of hazardous or toxic substances or wastes, including environmentally sensitive materials such as motor oil, filters, transmission fluid, antifreeze, refrigerant, batteries, solvents, lubricants, tires and fuel. The Company has incurred, and will continue to incur, capital and operating expenditures and other costs in complying with such laws and regulations and changes to such regulations could result in increased costs.

- **Changes in Economic Conditions and Vehicle Inventories Are Difficult to Predict and May Adversely Impact the Results of Operations of the Company's Dealerships.**

Sales of new and used vehicles are cyclical. Historically there have been periods of downturns characterized by weak demand due to general economic conditions, excess supplies, consumer confidence, discretionary income and credit availability. Recently, supply shortages have led to a period of higher average new and used selling prices as a result of strong consumer demand and inventory shortages related to supply chain disruptions and production delays at vehicle manufacturers. These conditions may deteriorate in the future. Changes in these conditions could materially adversely impact sales and related margins of new and used vehicles, parts and repair and maintenance services.

Risks Related to the Company's Other Businesses

- **If Leaf is Unable to Successfully Drive Traffic to its Marketplaces and Media Properties and Expand its Customer Base for its Marketplaces, its Business and Results of Operations Would be Adversely Affected.**

In order for Leaf's businesses to grow, Leaf must attract new visitors and customers to its marketplaces and media properties and retain its existing visitors and customers. Leaf's success in attracting traffic to its media properties and converting these visitors into repeat users depends, in part, upon Leaf's ability to identify, create and distribute high-quality and reliable content through engaging products and Leaf's ability to meet rapidly changing consumer demand. Leaf may not be able to identify and create the desired content or produce an engaging user experience in a cost-effective or timely manner, if at all. Leaf depends on search engines, primarily Google, to direct a significant amount of traffic to its media properties, and Leaf utilizes search engine optimization efforts to help generate search referral traffic to its media properties. If Leaf is unable to successfully modify its search engine optimization practices in response to changes regularly implemented by search engine algorithms and in search query trends, or

if Leaf is unable to generate increased or diversified traffic from other sources such as social media, email, direct navigation and online marketing activities, Leaf could experience substantial declines in traffic to its media properties and to its partners' media properties, which would adversely impact Leaf's business and results of operations. One of the key factors to growing the marketplace platforms for Society6 Group and Saatchi Art Group is expanding their new and repeat customer base. Their ability to attract new customers, some of whom may already purchase similar products from competitors, depends in part on Leaf's ability to successfully drive traffic to Leaf's marketplaces using social media platforms, email marketing campaigns and promotions, paid referrals and search engines.

- **If Leaf is Unable to Effectively Distribute its Media Content on Social Media Platforms or Effectively Optimize its Mobile Solutions in Order to Improve User Experience or Comply with Requirements of Leaf's Advertising Partners, Leaf's Business and Results of Operation Could Be Negatively Impacted.**

The number of people who access the internet through mobile devices such as smartphones and tablets, rather than through desktop or laptop computers, has increased substantially in recent years. Additionally, individuals are increasingly consuming publisher content through social media platforms. If Leaf cannot effectively distribute its media content, products and services on these devices or through these platforms, Leaf could experience a decline in visits and traffic and a corresponding decline in revenue. The significant increase in consumption of Leaf's media content on mobile devices and through social media platforms depresses revenue per one thousand visits, or RPVs. As a result of these factors, the increasing use of mobile devices and social media platforms to access Leaf's content could negatively impact its business and results of operations.

Further, consumers are increasingly conducting online shopping on mobile devices, including smartphones and tablets, rather than on desktop or laptop computers. Although Leaf continually strives to improve the mobile experience for users accessing its marketplaces through mobile devices, the smaller screen size and reduced functionality associated with some mobile device interfaces may make the use of Leaf's marketplace platforms more difficult or less appealing to its members. Historically, visits to Leaf's marketplaces on mobile devices have not converted into purchases as often as visits made through desktop or laptop computers, and the average order value for mobile transactions has been lower than desktop transactions. If conversion rates and average order values for mobile transactions on Leaf's marketplaces do not increase, the revenue and results of operations of Society6 Group and Saatchi Art Group may be adversely affected.

- **Leaf's Businesses Face Significant Competition, Which Leaf Expects Will Continue to Intensify, and Leaf May Not Be Able to Maintain or Improve its Competitive Position or Market Share.**

Leaf's Society6 Group and Saatchi Art Group businesses compete with a wide variety of online and brick-and-mortar companies selling comparable products. Leaf expects competition to continue to intensify given the low barrier of entry into online channels and the increase in conversion and competition between online and offline businesses. Leaf's Media Group faces intense competition from a wide range of competitors. Leaf's current principal competitors include online media properties, some of which have much larger audiences than Leaf, for online marketing budgets. Leaf also competes with companies and individuals that provide specialized consumer information online, including through enthusiast websites, message boards and blogs. Many of Leaf's current and potential competitors enjoy substantial competitive advantages, such as greater brand recognition, greater technical capabilities, access to larger customer bases and, in some cases, the ability to combine their online marketing products with traditional offline media such as newspapers or magazines. These companies may use these advantages to offer similar products and services at a lower price, develop different products to compete with Leaf's current offerings and respond more quickly and effectively than Leaf can to new or changing opportunities, technologies, standards or customer requirements. For example, if Google chose to compete more directly with Leaf as a publisher of similar content, Leaf may face the prospect of the loss of business or other adverse financial consequences due to Google's significantly greater customer base, financial resources, distribution channels and patent portfolio.

- **Failure to Recruit and Retain Employees in the Company's Restaurants Could Adversely Impact the Company's Restaurant Business.**

Historically, competition among restaurant companies for qualified management and staff has been very high. The Company's ability to recruit and retain managers and staff to operate the Company's restaurants is critical to a customer's dining experience. Failure to recruit and retain employees, low levels of unemployment or high turnover levels could negatively affect the Company's restaurant business.

- **Food-Borne Illness Concerns and Damage to the Company's Reputation Could Harm the Company's Restaurant Business.**

Historically, reports of food-borne illness or food safety issues, even if caused by food suppliers or distributors, have had negative effects on restaurant sales. Because food safety issues could be experienced at the source by food suppliers or distributors, food safety could, in part, be out of the Company's control. Even instances of food-borne

illness at a location served by one of the Company's competitors could result in negative publicity regarding the food service industry generally and could negatively impact restaurant revenue. Regardless of the source or cause, negative publicity about food-borne illness or other food safety issues could adversely impact the Company's reputation. Similarly, publicity about litigation, violence, complaints or government investigations could have a negative effect on restaurant sales.

- **Concentration of the Company's Restaurants in the Washington, D.C. Region Subjects the Company's Restaurant Business to Regional Economic Conditions.**

The concentration of the Company's restaurants in the Washington, D.C. region subjects it to adverse economic conditions and trends in the region that are out of the Company's control. For example, increases in the level of unemployment, a temporary government shutdown or a decrease in tourism would decrease customers' disposable income available for discretionary spending. These and other national, regional and local economic pressures could result in decreases in customer traffic and lower sales and profits.

Risks Related to Cybersecurity, Information Technology and Data Management

- **System Disruptions and Security Threats to the Company's Information Technology Infrastructure Could Have a Material Adverse Effect on Its Businesses and Results of Operations.**

The Company relies extensively on information technology systems, networks and services, including internet sites, data hosting and processing facilities and tools and other hardware, software and technical platforms, some of which are managed, hosted, provided and/or used by third parties or their vendors, to assist in conducting the Company's business.

The Company's systems and the third-party systems on which it relies are subject to damage or interruption from a number of causes, including power outages; computer and telecommunications failures; computer viruses; security breaches; cyberattacks, including the use of ransomware; catastrophic events such as fires, floods, earthquakes, tornadoes and hurricanes; infectious disease outbreaks (such as COVID-19); acts of war or terrorism; and design or usage errors by our employees, contractors or third-party service providers. Although the Company and the third-party service providers seek to maintain their respective systems effectively and to successfully address the risk of compromise of the integrity, security and consistent operations of these systems, such efforts may not be successful. As a result, the Company or its service providers could experience errors, interruptions, delays or cessations of service in key portions of the Company's information technology infrastructure, which could significantly disrupt its operations and be costly, time-consuming and resource-intensive to remedy. Any security breach or unauthorized access also could result in a misappropriation of the Company's proprietary information or the proprietary information of the Company's users, customers or partners, which could result in significant legal and financial exposure and damage to the Company's reputation. If an actual or perceived breach of the Company's security occurs, or if the Company's consumer facing sites become the subject of external attacks that affect or disrupt service or availability, the market perception of the effectiveness of the Company's security measures could be harmed and the Company could lose users, customers, advertisers or partners, all of which could have a material adverse effect on the Company's business, financial condition and results of operations. Any security breach at a company providing services to the Company or the Company's users, including third-party payment processors, could have similar effects and the Company may not be fully indemnified for the costs it may incur as a result of any such breach. To the extent that such vulnerabilities require remediation, such remedial measures could require significant resources and may not be implemented before such vulnerabilities are exploited. As the cybersecurity landscape evolves, the Company may also find it necessary to make significant further investments to protect data and infrastructure, including continuing to evaluate control changes and investments needed to support an increased remote workforce. Any of these events could have a material adverse effect on the Company's businesses and results of operations. Sustained or repeated system failures or security breaches that interrupt the Company's ability to process information in a timely manner or that result in a breach of proprietary or personal information could have a material adverse effect on the Company's operations and reputation.

- **Failure to Comply with Privacy Laws or Regulations Could Have an Adverse Effect on the Company's Businesses.**

Various U.S. federal, state and international laws and regulations govern the collection, use, retention, sharing and security of consumer data. This area of the law is evolving, and interpretations of applicable laws and regulations differ. Legislative activity in the privacy area may result in new laws that are relevant to the Company's operations, including restrictions on the collection, use and sharing of consumer data that could limit our ability to use the data for marketing or advertising, and could result in exposure to material liability. For example, general data privacy regulations adopted by the European Union known as the General Data Protection Regulation (GDPR), became effective in May 2018. These regulations require certain of the Company's operations to meet extensive requirements regarding the handling of personal data, including its use, protection and transfer. In addition, the GDPR provides the legal right for persons whose data is stored to request access to or correction or deletion of their

personal data, among other rights. Failure to meet the applicable requirements in the GDPR could result in fines of up to 4% of the Company's annual global revenues. In addition to the GDPR in Europe, new privacy laws and regulations are rapidly developing elsewhere around the globe, including amendments to the scope, penalties and other provisions of existing data protection laws. Failure to comply with these international data protection laws and regulations could have a negative impact on the Company's reputation and subject the Company to significant fines, penalties or other liabilities, all of which may increase the cost of operations, reduce customer growth, or otherwise harm the Company's business.

The California Consumer Privacy Act of 2018 (CCPA), which became effective on January 1, 2020, provided a new private right of action for data breaches and requires companies that process personal information pertaining to California residents to make disclosures to consumers about their data collection, use and sharing practices and allows consumers to opt out of certain data sharing with third parties. The enforcement of the CCPA by the California Attorney General commenced on July 1, 2020. In November 2020, the California Privacy Rights Act (CPRA) was approved by California voters, and goes into effect on January 1, 2023. The CPRA includes new requirements that are not in the CCPA. In 2020, Virginia and Colorado passed similar laws that are effective January 1, 2023 and July 1, 2023, respectively. In addition, data privacy bills have been introduced in various U.S state legislatures, including, but not limited to Washington, New York and Florida. There are also bills that have been introduced at the U.S. federal level. The passage of any additional laws could result in further uncertainty and cause the Company to incur additional costs and expenses in order to comply. Compliance with the GDPR, the CCPA, the CPRA and other applicable international and U.S. privacy laws can be costly and time-consuming. If the Company fails to properly respond to security breaches of its or its third-party's information technology systems or fails to properly respond to consumer requests under these laws, the Company could experience damage to its reputation, adverse publicity, loss of consumer confidence, reduced sales and profits, complications in executing the Company's growth initiatives and regulatory and legal risk, including criminal penalties or civil liabilities.

Claims of failure to comply with the Company's privacy policies or applicable laws or regulations could form the basis of governmental or private party actions against the Company and could result in significant penalties. Additionally, evolving concerns regarding data privacy may cause the Company's customers and potential customers to resist providing the data necessary to allow the Company to deliver its solutions effectively. Even the perception that personal information is not satisfactorily protected or does not meet regulatory requirements could inhibit sales and any failure to comply with such laws and regulations could lead to significant fines, penalties or other liabilities. Such claims and actions could cause damage to the Company's reputation and could have an adverse effect on the Company's businesses.

Financial Risks

- Failure to Successfully Integrate Acquired Businesses Could Negatively Affect the Company's Business.**

Acquisitions involve various inherent risks and uncertainties, including difficulties in efficiently integrating the service offerings, accounting and other administrative systems of an acquired business; the challenges of assimilating and retaining key personnel; the consequences of diverting the attention of senior management from existing operations; the possibility that an acquired business does not meet or exceed the financial projections that supported the purchase price; and the possible failure of the due diligence process to identify significant business risks or liabilities associated with the acquired business. In June 2021, the Company acquired Leaf, a diversified consumer internet company that builds creator-driven brands in lifestyle and home and art design categories. A failure to effectively manage growth and integrate acquired businesses such as Leaf could have a material adverse effect on the Company's operating results.

- Changes in Business Conditions Have Caused and May in the Future Cause Goodwill and Other Intangible Assets to Become Impaired.**

Goodwill generally represents the purchase price paid in excess of the fair value of net tangible and intangible assets acquired in a business combination. Goodwill is not amortized and remains on the Company's balance sheet indefinitely unless there is an impairment or a sale of a portion of the business. Goodwill is subject to an impairment test on an annual basis and when circumstances indicate that an impairment is more likely than not. Such circumstances include an adverse change in the business climate for one of the Company's businesses or a decision to dispose of a business or a significant portion of a business. Each of the Company's businesses faces uncertainty in its business environment due to a variety of factors, including challenges in operating environments created by the COVID-19 pandemic. In the first quarter of 2020, the Company recorded a goodwill and indefinite-lived intangible asset impairment charge at Clyde's and an indefinite-lived intangible asset impairment charge at the auto dealerships. In the third quarter of 2021, the Company recorded a goodwill impairment charge at Dekko. Additional COVID-19 disruptions could result in future adverse changes in projections for future operating results or other key assumptions, such as projected revenue, profit margin, capital expenditures or cash flows associated with fair value estimates and could lead to additional future impairments, which could be material. The Company may experience other unforeseen circumstances that adversely affect the value of the Company's goodwill or intangible

assets and trigger an evaluation of the amount of the recorded goodwill and intangible assets. There also exists a reasonable possibility that changes to the discounted cash-flow model used to perform the quantitative goodwill impairment review, including a decrease in the assumed projected cash flows or long-term growth rate, or an increase in the discount rate assumption, could result in an impairment charge. Future write-offs of goodwill or other intangible assets as a result of an impairment in the business could materially adversely affect the Company's results of operations and financial condition.

Item 1B. Unresolved Staff Comments.

Not applicable.

Item 2. Properties.

The Company leases space for its corporate offices in Arlington, VA. The lease expires in 2024, subject to an option of the Company to extend.

Directly or through its subsidiaries, Kaplan owns a total of four commercial properties: a six-story building located at 131 West 56th Street in New York City, used by KNA as an education center primarily for medical students; an office condominium in Chapel Hill, NC, used by KNA; a three-story building in Berkeley, CA, used for classroom space by KNA and KI North America; and, in August 2021, MPW purchased a building in South Kensington, London intended for academic dormitory space. KI also entered into a 135-year lease of land in Liverpool, U.K. on which it completed the construction of college and dormitory space that opened in January 2020.

In the U.S., KNA leases space in Fort Lauderdale, FL, for corporate offices, data and call centers and employee-training facilities, which leases expire in 2024. In addition, KNA leases corporate offices in La Crosse, WI, under a lease expiring in 2023 and in Pittsburgh under a lease expiring in 2024. KNA has 18 smaller leases in the U.S. and also delivers classes at schools, colleges, hotels and other premises for which KNA is not a leaseholder. Kaplan, Inc. leases office space in Alpharetta, GA, pursuant to a lease that expires in 2024. The Kaplan Languages Group business maintains 14 leases for office and instructional space in the U.S.

Overseas, Dublin Business School's facilities in Dublin, Ireland, are located in three buildings which are rented under leases expiring between 2028 and 2029. Kaplan Publishing has an office and distribution warehouse in Wokingham, Berkshire, U.K., under a lease expiring in 2027. Kaplan Financial's largest leaseholds are office and instructional spaces in London, U.K., expiring in 2033, and two leases, expiring in 2030; office and instructional space in Birmingham, U.K., expiring in 2027; two locations in Manchester, U.K. comprising an office for central support services expiring in 2027, and office and instructional space expiring in 2027; office and instructional space in Singapore, comprising two separate leases and expiring between 2022 and 2023; and office and instructional space in Hong Kong expiring in 2025. Palace House in London, U.K., is primarily occupied by the KI Pathways business and KI corporate offices comprising several separate leases expiring in 2032. Kaplan has leases expiring in 2027 for education space in Nottingham, U.K. It also leases dormitory space as the main tenant of a student residential building in Nottingham, U.K. Kaplan has two separate leases in Glasgow, Scotland for dormitory space that was constructed and opened to students in 2012 which leases expire in 2032. Kaplan has further entered into a lease for a residential college in Bournemouth, England, and a lease in Brighton, U.K., for dormitory space which expires in 2040. In Australia, Kaplan leases one location in Melbourne, three locations in Sydney, one location in Brisbane, and three locations in Adelaide under leases expiring between 2022 through 2031.

The operations of each of the Company's television stations are owned by subsidiaries of the Company, as are the related tower sites, except in Houston, Orlando and Jacksonville, where the tower sites are 50% owned.

Hoover owns nine U.S. properties: a 29-acre site in Thomson, GA; a 35-acre site in Pine Bluff, AR; a 60-acre site in Milford, VA; a 15-acre site in Detroit, MI; a 14-acre site in Bakersfield, CA; a 17-acre site in Oxford, PA; a 15-acre site in Halifax, NC; an 11-acre site in Belington, WV; and a 65-acre site in Havana, FL. In addition, Hoover leases a 10-acre site in Winston, OR, on a long-term lease with renewal terms available through December 31, 2044. Hoover's corporate, sales and accounting office, and research, engineering and development offices are also located on the Thomson, GA, campus.

Dekko owns four U.S. properties: manufacturing buildings in Garrett, IN and Avilla, IN; a manufacturing and warehouse space in Ardmore, AL; and a warehouse space in El Paso, TX. In addition, Dekko owns two buildings in Juarez, Mexico, one of which consists of manufacturing and office space and the other consists of manufacturing and office space. In the U.S., Dekko leases headquarters and innovation center space in Fort Wayne, IN, under a lease that expires in 2029; manufacturing and warehouse space in North Webster, IN, under a lease that expires in 2022; warehouse space in Kendallville, IN, under a lease that expires in 2022; manufacturing, warehouse and office space in Shelton, CT and in Fallston, NC, under leases that expire 2022-2024; and office space in Grand Rapids, MI, that expires in 2024.

Joyce/Dayton owns three properties: its corporate headquarters in Kettering, OH, and manufacturing facilities in Portland, IN, and Clayton, OH. It also leases a manufacturing facility in Newington, CT.

Forney leases corporate office space in Addison, TX under a lease that expires in 2024, and leases a distribution center in Laredo, TX, under a lease that expires in August 2022. Forney's manufacturing facility in Monterrey, Mexico, is in a building that contains office and manufacturing space under a lease that expires in 2022. Forney also leases offices in Shanghai, China, under a lease that expires in December 2022.

The corporate office of GHG is located in leased office space in Troy, MI. GHG also leases a small office in Nashville, TN. GHG leases small office spaces in Mechanicsburg, PA; Williamsport, PA; Harrisburg, PA; Kingston, PA; Milford, PA; Stroudsburg, PA; New Castle, PA; Warrendale, PA; Shiloh, IL; Marion, IL; Glen Carbon, IL; Troy, MI; Grand Rapids, MI; Lansing, MI; Lapeer, MI; Zephyrhills, FL; Osprey, FL; Palmetto, FL; Downers Grove, IL; and Nashville, TN. In addition, GHG leases space for a hospice for nursing offices at Edward and Elmhurst hospitals in northern Illinois. GHG leases office space for Weiss Medical in Riverdale, NJ. GHG also has leased office space in Mars, PA, which expires in October 2022. GHG also owns property in Benton, IL.

Graham Automotive owns the Honda dealership space in Tysons Corner, VA. Graham Automotive leases space in Rockville, MD, for its Lexus dealership, Bethesda MD for its Jeep dealership, and Manassas, VA for its Ford dealership. These leases expire between 2036 to 2060, including renewal options.

Leaf leases office space in Santa Monica, California that serves as its corporate headquarters. The lease for its Santa Monica facility expires in July 2024. Leaf also leases additional facilities and purchase service memberships in Denver, Colorado, New York, New York and London, United Kingdom.

Clyde's leases restaurant facilities in Maryland, Virginia and Washington, D.C., under non-cancellable lease agreements. The restaurant facilities average just over 15,000 square feet, ranging from 10,000 to 30,000 square feet. Renewal options are available on many of the leases for one or more periods of five to 10 years each. Final lease expiration dates range from 2022 to 2051.

Framebridge leases retail locations in Washington, D.C. (2), Bethesda, MD (1), Northern Virginia, VA (2), Chicago, IL (3), Brooklyn, NY (2), Atlanta, GA (2), Manhattan, NY (1), Boston suburb (1), Philadelphia suburb (1) and two manufacturing facilities in Richmond, KY and Moorestown, NJ.

Code3 leases office space in New York, NY; Los Angeles, CA; and Cleveland, OH.

The Slate Group leases office space in Brooklyn, NY, and Washington, D.C.

Item 3. Legal Proceedings.

Information with respect to legal proceedings may be found in Note 18, "Contingencies and other commitments - Litigation, Legal and Other Matters" to the consolidated financial statements in Part II of this Annual Report, which is incorporated herein by reference.

Item 4. Mine Safety Disclosures.

Not applicable.

PART II

Item 5. Market for the Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities.

Market Information and Holders

The Company's Class B Common Stock is traded on the New York Stock Exchange under the symbol "GHC." The Company's Class A Common Stock is not publicly traded.

At January 31, 2022, there were 27 holders of record of the Company's Class A Common Stock and 339 holders of record of the Company's Class B Common Stock.

Purchases of Equity Securities by the Issuer and Affiliated Purchasers

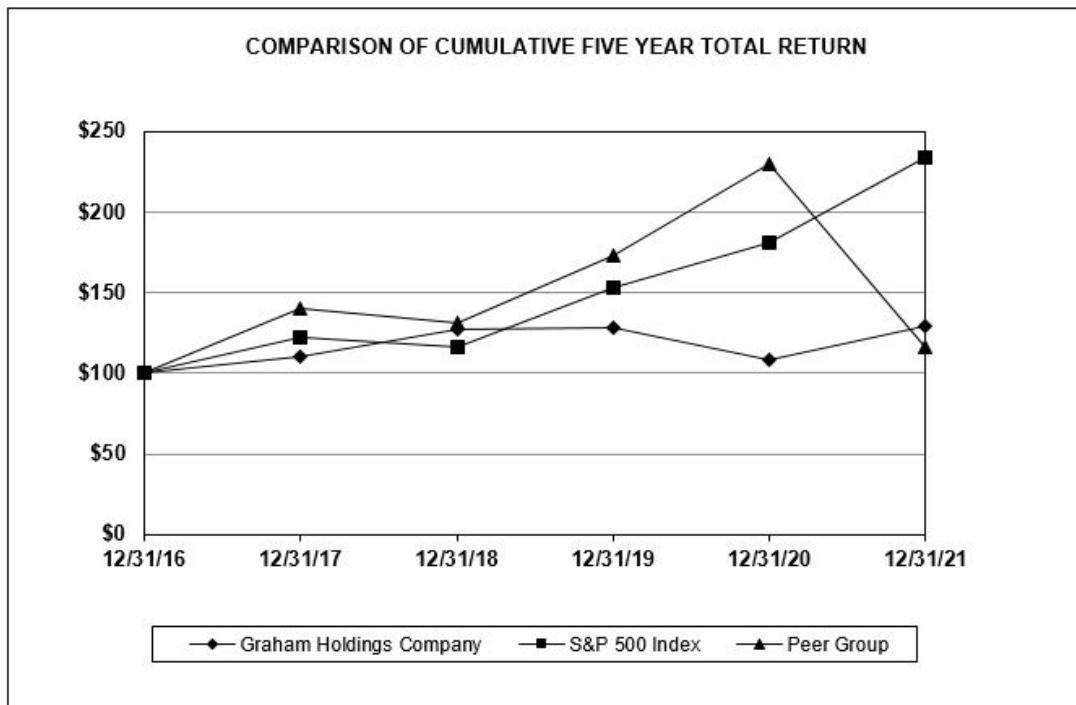
During the quarter ended December 31, 2021, the Company purchased shares of its Class B Common Stock as set forth in the following table:

Period	Total Number of Shares Purchased	Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plan*	Maximum Number of Shares That May Yet Be Purchased Under the Plan*
2021				
October	12,730	\$ 601.02	12,730	314,910
November	12,957	597.04	12,957	301,953
December	31,771	580.93	31,771	270,182
Total	57,458	\$ 589.01	57,458	

*On September 10, 2020, the Company's Board of Directors authorized the Company to purchase, on the open market or otherwise, up to 500,000 shares of its Class B Common Stock. There is no expiration date for this authorization. All purchases made during the quarter ended December 31, 2021, were open market transactions.

Performance Graph

The following graph is a comparison of the yearly percentage change in the Company's cumulative total shareholder return with the cumulative total return of the Standard & Poor's 500 Stock Index and a custom peer group index comprised of a composite group of education and television broadcasting companies. The Standard & Poor's 500 Stock Index is comprised of 500 U.S. companies in the industrial, transportation, utilities and financial industries and is weighted by market capitalization. The custom peer group of composite companies includes Adtalem Global Education Inc., Chegg, Inc., The E.W. Scripps Company, Grand Canyon Education Inc., Nexstar Media Group Inc., Gray Television Inc., New Oriental Education & Technology Group Inc., Pearson plc and Tegna Inc. The graph reflects the investment of \$100 on December 31, 2016, in the Company's Class B Common Stock, the Standard & Poor's 500 Stock Index and the custom peer group index of composite companies. For purposes of this graph, it has been assumed that dividends were reinvested on the date paid in the case of the Company, and on a quarterly basis in the case of the Standard & Poor's 500 Index and the custom peer group index of composite companies.



December 31	2016	2017	2018	2019	2020	2021
Graham Holdings Company	100.00	110.05	127.41	128.13	108.51	129.40
S&P 500 Index	100.00	121.83	116.49	153.17	181.35	233.41
Composite Peer Group	100.00	140.02	131.41	173.42	229.65	116.07

Item 6. Reserved.**Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations.**

See the information contained under the heading "Management's Discussion and Analysis of Results of Operations and Financial Condition," which is included in this Annual Report on Form 10-K and listed in the index to financial information on page 49 hereof.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk.

The Company is exposed to market risk in the normal course of its business due primarily to its ownership of marketable equity securities, which are subject to equity price risk; to its borrowing and cash-management activities, which are subject to interest rate risk; and to its non-U.S. business operations, which are subject to foreign exchange rate risk.

Equity Price Risk. The Company has common stock investments in several publicly traded companies (as discussed in Note 4 to the Company's Consolidated Financial Statements) that are subject to market price volatility. The fair value of these common stock investments totaled \$810.0 million at December 31, 2021.

Interest Rate Risk. The Company manages the risk associated with interest rate movements through the use of a combination of variable and fixed-rate debt.

At December 31, 2021, the Company had \$400 million principal amount of 5.75% unsecured fixed-rate notes due June 1, 2026 (the Notes). At December 31, 2021, the aggregate fair value of the Notes, based upon quoted market prices, was \$417.5 million. There were no earnings or liquidity risks associated with the Company's Notes. The fair value of the Notes varies with fluctuations in market interest rates. A 100 basis point decrease in market interest rates would increase the fair value of the Notes by \$9.5 million at December 31, 2021 using a yield to par call. A 100 basis point increase in market interest rates would decrease the fair value of the Notes by \$9.3 million at December 31, 2021, using a yield to par call. The Company also had approximately \$13 million of other fixed-rate debt, primarily relating to the healthcare business (as discussed in Note 11 to the Company's Consolidated Financial Statements).

At December 31, 2021, the Company had approximately \$290 million of variable-rate debt, including floor plan facility obligations. Approximately \$24.6 million of this debt is hedged by an interest rate swap. The Company is subject to earnings and liquidity risks for changes in the interest rate on the unhedged portion of this debt. A 100 basis point increase in the applicable floating rates for the unhedged portions of our variable-rate debt would increase annual interest expense by approximately \$2.6 million.

Foreign Exchange Rate Risk. The Company is exposed to foreign exchange rate risk primarily at its Kaplan international operations, and the primary exposure relates to the exchange rate between the U.S. dollar and the British pound, the Australian dollar, and the Singapore dollar. In 2021, 2020 and 2019 the Company reported net foreign currency losses of \$0.2 million, \$2.2 million and \$1.1 million, respectively.

If the values of the British pound, the Australian dollar, and the Singapore dollar relative to the U.S. dollar had been 10% lower than the values that prevailed during 2021, the Company's pre-tax income for 2021 would have been approximately \$13 million lower. Conversely, if such values had been 10% higher, the Company's reported pre-tax income for 2021 would have been approximately \$13 million higher.

Item 8. Financial Statements and Supplementary Data.

See the Company's Consolidated Financial Statements at December 31, 2021, and for the periods then ended, together with the report of PricewaterhouseCoopers LLP thereon, which are included in this Annual Report on Form 10-K and listed in the index to financial information on page 49 hereof.

Item 9. Changes in and Disagreements With Accountants on Accounting and Financial Disclosure.

Not applicable.

Item 9A. Controls and Procedures.**Evaluation of Disclosure Controls and Procedures**

An evaluation was performed by the Company's management, with the participation of the Company's Chief Executive Officer (principal executive officer) and the Company's Chief Financial Officer (principal financial officer), of the effectiveness of the Company's disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)), as of December 31, 2021. Based on that evaluation, the Company's Chief Executive Officer and Chief Financial Officer have concluded that the Company's disclosure controls and procedures, as

designed and implemented, are effective in ensuring that information required to be disclosed by the Company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission's rules and forms and is accumulated and communicated to management, including the Chief Executive Officer and Chief Financial Officer, in a manner that allows timely decisions regarding required disclosure.

Management's Report on Internal Control Over Financial Reporting

Management of Graham Holdings Company is responsible for establishing and maintaining adequate internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)). The Company's internal control over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles.

The Company's management assessed the effectiveness of internal control over financial reporting as of December 31, 2021. In making this assessment, management used the criteria set forth in *Internal Control -Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in 2013. Management has concluded that as of December 31, 2021, the Company's internal control over financial reporting was effective based on these criteria.

The effectiveness of the Company's internal control over financial reporting as of December 31, 2021, has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in their report included herein.

Changes in Internal Control Over Financial Reporting

There has been no change in the Company's internal control over financial reporting during the quarter ended December 31, 2021, that has materially affected, or is reasonably likely to materially affect, the Company's internal control over financial reporting.

Item 9B. Other Information.

Not applicable.

Item 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections.

Not applicable.

PART III

Item 10. Directors, Executive Officers and Corporate Governance.

The information contained under the heading "Executive Officers" in Item 1 hereof and the information contained under the headings "Nominees for Election by Class A Shareholders," "Nominees for Election by Class B Shareholders," "Audit Committee" and "Section 16(a) Beneficial Ownership Reporting Compliance" in the definitive Proxy Statement for the Company's 2022 Annual Meeting of Stockholders is incorporated herein by reference thereto.

The Company has adopted codes of conduct that constitute "codes of ethics" as that term is defined in paragraph (b) of Item 406 of Regulation S-K and that apply to the Company's principal executive officer, principal financial officer, principal accounting officer or controller and to any persons performing similar functions. Such codes of conduct are posted on the Company's website, the address of which is ghco.com, and the Company intends to satisfy the disclosure requirements under Item 5.05 of Form 8-K with respect to certain amendments to, and waivers of the requirements of, the provisions of such codes of conduct applicable to the officers and persons referred to above by posting the required information on its website.

In addition to the certifications of the Company's Chief Executive Officer and Chief Financial Officer filed as exhibits to this Annual Report on Form 10-K, on May 20, 2021, the Company's Chief Executive Officer submitted to the New York Stock Exchange the annual certification regarding compliance with the NYSE's corporate governance listing standards required by Section 303A.12(a) of the NYSE Listed Company Manual.

Item 11. Executive Compensation.

The information contained under the headings "Director Compensation," "Compensation Committee Interlocks and Insider Participation," "Executive Compensation" and "Compensation Committee Report" in the definitive Proxy Statement for the Company's 2022 Annual Meeting of Stockholders is incorporated herein by reference thereto.

Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters.

The information contained under the heading "Stock Holdings of Certain Beneficial Owners and Management" in the definitive Proxy Statement for the Company's 2022 Annual Meeting of Stockholders is incorporated herein by reference thereto.

Item 13. Certain Relationships and Related Transactions and Director Independence.

The information contained under the headings "Transactions With Related Persons, Promoters and Certain Control Persons" and "Controlled Company" in the definitive Proxy Statement for the Company's 2022 Annual Meeting of Stockholders is incorporated herein by reference thereto.

Item 14. Principal Accounting Fees and Services.

The information contained under the heading "Audit Committee Report" in the definitive Proxy Statement for the Company's 2022 Annual Meeting of Stockholders is incorporated herein by reference thereto.

PART IV

Item 15. Exhibits, Financial Statement Schedules.

The following documents are filed as part of this report:

1. ***Financial Statements.*** As listed in the index to financial information on page 49 hereof.
2. ***Exhibits.*** As listed in the index to exhibits on page 46 hereof.

Item 16. Form 10-K Summary.

Not applicable.

INDEX TO EXHIBITS

Exhibit Number	Description
2.1	Contribution and Transfer Agreement, dated April 27, 2017, by and among Kaplan Higher Education, LLC, Iowa College Acquisition, LLC, Purdue University and Purdue New U, Inc. (incorporated by reference to Exhibit 2.1 to the Company's Current Report on Form 8-K filed April 27, 2017).**
3.1	Restated Certificate of Incorporation of the Company dated November 13, 2003 (incorporated by reference to Exhibit 3.1 to the Company's Annual Report on Form 10-K for the fiscal year ended December 28, 2003).
3.2	Certificate of Amendment, effective November 29, 2013, to the Restated Certificate of Incorporation of the Company (incorporated by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K filed November 29, 2013).
3.3	By-Laws of the Company as amended and restated through November 29, 2013 (incorporated by reference to Exhibit 3.2 to the Company's Current Report on Form 8-K filed November 29, 2013).
4.1	Senior Notes Indenture dated as of May 30, 2018, between the Company and The Bank of New York Mellon Trust Company, N.A., as Trustee (incorporated by reference to Exhibit 4.1 to the Company's Current Report on Form 8-K dated May 30, 2018).
4.2	First Supplemental Indenture, dated as of March 24, 2020, among Graham Healthcare Group, Inc., a Delaware corporation, a subsidiary of the Company, and The Bank of New York Mellon Trust Company, N.A., as trustee (incorporated by reference to Exhibit 4.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2020).
4.3	Second Supplemental Indenture, dated as of January 6, 2022, among Graham Automotive LLC, a Delaware limited liability company, a subsidiary of Graham Holdings Company, a Delaware corporation, and The Bank of New York Mellon Trust Company, N.A., as trustee.
4.4	Description of the Company's Securities (incorporated by reference to Exhibit 4.2 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2019).
10.1	Amended and Restated Five Year Credit Agreement, dated as of May 30, 2018, among the Company, and the foreign borrowers from time to time party thereto, and certain of its domestic subsidiaries as guarantors, the several lenders from time to time party thereto, Wells Fargo Bank, National Association, as Administrative Agent and JPMorgan Chase Bank, N.A., as Syndication Agent (incorporated by reference to Exhibit 4.2 to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2018).
10.2	First Amendment, dated as of November 23, 2021, to Amended and Restated Five Year Credit Agreement, dated as of May 30, 2018, among the Company, and the foreign borrowers from time to time party thereto, and certain of its domestic subsidiaries as guarantors, the several lenders from time to time party thereto, Wells Fargo Bank, National Association, as Administrative Agent and JPMorgan Chase Bank, N.A., as Syndication Agent.
10.3	Transition and Operations Support Agreement, dated March 22, 2018, by and among Kaplan Higher Education, LLC, Iowa College Acquisition, LLC and Purdue University Global, Inc., with Purdue University as a party to the Transition and Operations Support Agreement solely for the purposes of being bound by the Purdue Provisions (as defined therein) (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K dated March 22, 2018).**+
10.4	First Amendment, dated as of July 29, 2019, to the Transition and Operations Support Agreement, dated March 22, 2018, by and among Kaplan Higher Education, LLC, Iowa College Acquisition, LLC and Purdue University Global, Inc. (the "First Amendment"), with The Trustees of Purdue University as a party to the First Amendment solely for the purposes of continuing to be bound by the Purdue Provisions (as defined therein). (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2019).+*
10.5	Graham Holdings Company 2012 Incentive Compensation Plan, as amended and restated effective November 29, 2013, as adjusted to reflect the spin-off of Cable ONE (incorporated by reference to Exhibit 10.1 to Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2015)*
10.6	Graham Holdings Company Supplemental Executive Retirement Plan as amended and restated effective December 10, 2013 (incorporated by reference to Exhibit 10.3 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2013).*
10.7	Amendment No. 1 to Graham Holdings Company Supplemental Executive Retirement Plan, effective March 31, 2014 (incorporated by reference to Exhibit 10.4 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2014).*
10.8	Graham Holdings Company Deferred Compensation Plan as amended and restated effective January 1, 2014 (incorporated by reference to Exhibit 10.4 to Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2013).*

Exhibit Number	Description
10.9	Letter Agreement between the Company and Timothy J. O'Shaughnessy, dated October 20, 2014 (incorporated by reference to Exhibit 10.6 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2014).*
10.10	Letter Agreement between the Company and Andrew S. Rosen, dated April 7, 2014 (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2015).*
10.11	Letter Agreement between the Company and Jacob M. Maas, dated August 24, 2015 (incorporated by reference to Exhibit 10.10 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2018).*
21	List of subsidiaries of the Company.
23	Consent of independent registered public accounting firm.
24	Power of Attorney dated February 15, 2022.
31.1	Rule 13a-14(a)/15d-14(a) Certification of the Chief Executive Officer.
31.2	Rule 13a-14(a)/15d-14(a) Certification of the Chief Financial Officer.
32	Section 1350 Certification of the Chief Executive Officer and the Chief Financial Officer.
101.INS	Inline XBRL Instance Document - the instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document
101.SCH	Inline XBRL Taxonomy Extension Schema Document
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document
104	Cover Page Interactive Data File, formatted in Inline XBRL and included as Exhibit 101

*A management contract or compensatory plan or arrangement required to be included as an exhibit hereto pursuant to Item 15(b) of Form 10-K.

**Graham Holdings Company hereby undertakes to furnish supplementally a copy of any omitted exhibit or schedule to such agreement to the SEC upon request.

+ Select portions of this exhibit have been omitted pursuant to a request for confidential treatment and have been filed separately with the SEC.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized, on February 25, 2022.

GRAHAM HOLDINGS COMPANY
(Registrant)

By _____ /s/ Wallace R. Cooney
Wallace R. Cooney
Chief Financial Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the Registrant and in the capacities indicated on February 25, 2022:

Timothy J. O'Shaughnessy	President, Chief Executive Officer (Principal Executive Officer) and Director
Wallace R. Cooney	Chief Financial Officer (Principal Financial Officer)
Marcel A. Snyman	Principal Accounting Officer
Donald E. Graham	Chairman of the Board
Tony Allen	Director
Christopher C. Davis	Director
Thomas S. Gayner	Director
Anne M. Mulcahy	Director
G. Richard Wagoner, Jr.	Director
Katharine Weymouth	Director

By _____ /s/ Wallace R. Cooney
Wallace R. Cooney
Attorney-in-Fact

An original power of attorney authorizing Timothy J. O'Shaughnessy, Wallace R. Cooney and Nicole M. Maddrey, and each of them, to sign all reports required to be filed by the Registrant pursuant to the Securities Exchange Act of 1934 on behalf of the above-named directors and officers has been filed with the Securities and Exchange Commission.

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GRAHAM HOLDINGS COMPANY

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All schedules have been omitted either because they are not applicable or because the required information is included in the Consolidated Financial Statements or the notes thereto referred to above.

MANAGEMENT'S DISCUSSION AND ANALYSIS OF RESULTS OF OPERATIONS AND FINANCIAL CONDITION

This analysis should be read in conjunction with the Consolidated Financial Statements and the notes thereto. Refer to Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations in the Graham Holdings Company's 2020 Annual Report on Form 10-K for management's discussion and analysis of financial condition and results of operations for the year ended December 31, 2020 compared to the year ended December 31, 2019.

OVERVIEW

Graham Holdings Company (the Company) is a diversified education and media company whose operations include educational services; television broadcasting; online, podcast, print and local TV news and other content; social-media advertising services; manufacturing; automotive dealerships; restaurants and entertainment venues; custom framing; home health and hospice care; and a consumer internet company. Education is the largest business, and through its subsidiary Kaplan, Inc., the Company provides extensive worldwide education services for individuals, schools and businesses. The Company's second largest business is television broadcasting. In 2021, the Company completed an acquisition of a consumer internet company. The Company's business units are diverse and subject to different trends and risks.

The Company's education division is the largest operating division of the Company, accounting for 43% of the Company's consolidated revenues in 2021. The Company has devoted significant resources and attention to this division for many years, given its geographic and product diversity; the investment opportunities and growth prospects during this time; and challenges related to government regulation. Kaplan is organized into the following three operating segments: Kaplan International, Kaplan Higher Education (KHE) and Supplemental Education.

Kaplan International reported revenue increases for 2021 due largely to growth at UK Professional and Pathways, partially offset by declines at Languages. Kaplan International operating results improved in 2021 due to a reduction in losses at Languages and improved results at Pathways and UK Professional.

KHE's revenue grew in 2021, due to an increase in the Purdue University Global (Purdue Global) fee recorded and an increase in revenue from other higher education institutions. KHE recorded \$34.8 million and \$31.6 million in fees from Purdue Global in its Higher Education operating results in 2021 and 2020, respectively, based on an assessment of its collectability under the Transition and Operations Support Agreement (TOSA).

Supplemental Education revenues decreased in 2021 due to a decline in retail comprehensive test preparation demand and classroom-based course offerings, offset in part by growth in securities, insurance and real estate programs. Supplemental Education operating income improved in 2021 due to savings from restructuring activities implemented in 2020.

Kaplan made two acquisitions in 2021; two acquisitions in 2020; and one acquisition in 2019.

The Company's television broadcasting division reported lower revenues and operating income in 2021, due to significant decreases in political advertising, partially offset by increased local and national advertising revenues, which were adversely impacted in 2020 by reduced demand related to the COVID-19 pandemic, increased retransmission revenues, and increased revenue from summer Olympics-related advertising revenue at the Company's NBC affiliates. In recent years, the television broadcasting division has consistently generated significantly higher operating income amounts and operating income margins than the education division and other businesses.

The Company's manufacturing division has provided meaningful operating cash flow over the last few years, despite reduced demand due to the COVID-19 pandemic at certain businesses. The Company's healthcare business has grown substantially over the last few years due to internal growth and acquisitions, with a meaningful increase in operating results in the past two years.

With the recent acquisitions of Leaf, Framebridge, three automotive dealerships and Clyde's Restaurant Group, and recent acquisitions at healthcare and manufacturing, the Company has invested in new lines of business in the last few years.

The Company generates a significant amount of cash from its businesses that is used to support its operations, pay down debt and fund capital expenditures, share repurchases, dividends, acquisitions and other investments.

RESULTS OF OPERATIONS

Net income attributable to common shares was \$352.1 million (\$70.45 per share) for the year ended December 31, 2021, compared to \$300.4 million (\$58.13 per share) for the year ended December 31, 2020.

The COVID-19 pandemic and measures taken to prevent its spread significantly impacted the Company's results for 2020 and 2021, largely from reduced demand for the Company's products and services. This significant adverse impact is expected to continue into 2022, although at a reduced level. The Company's management has taken a variety of measures to reduce costs and to implement changes to business operations. The Company cannot predict the severity or duration of the pandemic, the extent to which demand for the Company's products and services will be adversely affected or the degree to which financial and operating results will be negatively impacted.

Items included in the Company's net income for 2021 are listed below:

- a \$3.9 million net credit related to fair value changes in contingent consideration from prior acquisitions (\$0.78 per share);
- a \$1.0 million reduction to operating expenses from property, plant and equipment gains in connection with the spectrum repacking mandate of the Federal Communications Commission (FCC) (after-tax impact of \$0.8 million, or \$0.16 per share);
- \$31.6 million in goodwill and other long-lived asset impairment charges (after-tax impact of \$26.0 million, or \$5.19 per share);
- \$12.6 million in net earnings of affiliates whose operations are not managed by the Company (after-tax impact of \$9.3 million, or \$1.86 per share);
- \$4.1 million in interest expense to adjust the fair value of the mandatorily redeemable noncontrolling interest (after-tax impact of \$4.0 million, or \$0.80 per share);
- \$1.1 million in expenses related to a non-operating Separation Incentive Program (SIP) at manufacturing (after-tax impact of \$0.8 million, or \$0.16 per share);
- \$243.1 million in net gains on marketable equity securities (after-tax impact of \$179.7 million, or \$35.96 per share);
- Non-operating gains, net, of \$13.6 million from write-ups, sales and impairments of cost and equity method investments (after-tax impact of \$10.1 million, or \$2.02 per share);
- \$0.2 million in non-operating foreign currency losses (after-tax impact of \$0.1 million, or \$0.03 per share); and
- a \$17.2 million deferred tax benefit arising from a change in the estimated deferred state income tax rate related to the Company's pension and other postretirement plans (\$3.45 per share).

Items included in the Company's net income for 2020 are listed below:

- \$27.9 million in goodwill and other long-lived asset impairment charges (after-tax impact of \$20.2 million, or \$3.92 per share);
- \$16.1 million in restructuring charges at the education division (after-tax impact of \$11.9 million, or \$2.31 per share);
- \$5.7 million in accelerated depreciation at other businesses (after-tax impact of \$4.1 million, or \$0.80 per share);
- a \$2.9 million reduction to operating expenses from property, plant and equipment gains in connection with the spectrum repacking mandate of the FCC (after-tax impact of \$2.3 million, or \$0.44 per share);
- \$2.1 million in net losses of affiliates whose operations are not managed by the Company (after-tax impact of \$1.6 million, or \$0.31 per share);
- \$8.5 million in interest expense in the fourth quarter to adjust the fair value of the mandatorily redeemable noncontrolling interest (\$1.64 per share);
- \$11.5 million in expenses related to non-operating SIP activity at the education division and other businesses (after-tax impact of \$8.5 million, or \$1.64 per share);
- \$60.8 million in net gains on marketable equity securities (after-tax impact of \$44.7 million, or \$8.64 per share);
- a fourth quarter gain of \$209.8 million on the sale of Megaphone (after-tax impact of \$154.2 million, or \$29.84 per share);
- Non-operating losses, net, of \$1.5 million from impairments, sales and write-ups of cost and equity method investments (after-tax impact of \$1.1 million, or \$0.21 per share);
- \$2.2 million in non-operating foreign currency losses (after-tax impact of \$1.6 million, or \$0.31 per share); and
- \$2.9 million in income tax expense related to stock compensation (\$0.56 per share).

Revenue for 2021 was \$3,186.0 million, up 10% from \$2,889.1 million in 2020. Revenues increased at education, manufacturing, healthcare, automotive and other businesses, partially offset by a decrease at television broadcasting. Operating costs and expenses for the year increased to \$3,108.6 million in 2021, from \$2,788.7 million in 2020. Expenses in 2021 increased across all divisions. The Company reported operating income for 2021 of \$77.4 million, compared to \$100.4 million in 2020. Operating results declined at television broadcasting and manufacturing, partially offset by improvements at education and automotive.

Division Results

Education

Education division revenue in 2021 totaled \$1,361.2 million, up 4% from \$1,305.7 million in 2020. Kaplan reported operating income of \$50.6 million for 2021, an increase from \$11.6 million in 2020. The COVID-19 pandemic adversely impacted Kaplan's operating results beginning in February 2020 and continued through 2021.

Kaplan serves a large number of students who travel to other countries to study a second language, prepare for licensure, or pursue a higher education degree. Government-imposed travel restrictions and school closures arising from COVID-19 had a significant negative impact on the ability of international students to travel and attend Kaplan's programs, particularly Kaplan International's Language programs. In addition, most licensing bodies and administrators of standardized exams postponed or canceled scheduled examinations due to COVID-19, resulting in a significant number of students deciding to defer their studies, negatively impacting Kaplan's exam preparation education businesses. Overall, if COVID-19 restrictions persist, then Kaplan's revenues and operating results in 2022 could be adversely impacted, particularly at Kaplan International Languages.

To help mitigate the adverse impact of COVID-19, Kaplan implemented a number of cost reduction and restructuring activities across its businesses. Related to these restructuring activities, for 2021, Kaplan recorded \$3.3 million in lease impairment charges (including \$1.9 million in property, plant and equipment write-downs). In 2020, Kaplan recorded \$13.5 million in lease restructuring costs (including \$3.6 million of accelerated depreciation expense) and \$6.2 million in severance restructuring costs. Kaplan also recorded \$12.3 million in lease impairment charges in connection with these plans in 2020 (including \$2.2 million in property, plant and equipment write-downs). Further, Kaplan recorded \$12.8 million in non-operating pension expense in 2020 related to workforce reductions completed in the second and third quarters.

In 2020, Kaplan also accelerated the development and promotion of various online programs and solutions, rapidly transitioned most of its classroom-based programs online and addressed the individual needs of its students and partners, substantially reducing the disruption from COVID-19 while simultaneously adding important new product offerings and operating capabilities. Further, in the fourth quarter of 2020, Kaplan combined its three primary divisions based in the United States (Kaplan Test Prep, Kaplan Professional, and Kaplan Higher Education) into one business known as Kaplan North America (KNA). This combination was designed to enhance Kaplan's competitiveness by better leveraging its diversified academic and professional portfolio, as well as its relationships with students, universities and businesses. For financial reporting purposes, KNA is reported in two segments: Higher Education and Supplemental Education (combining Kaplan Test Prep and Kaplan Professional (U.S.) into one reporting segment).

A summary of Kaplan's operating results is as follows:

(in thousands)	Year Ended December 31		% Change
	2021	2020	
Revenue			
Kaplan international	\$ 726,875	\$ 653,892	11
Higher education	317,854	316,095	1
Supplemental education	309,069	327,087	(6)
Kaplan corporate and other	14,759	12,643	17
Intersegment elimination	(7,312)	(4,004)	—
	\$ 1,361,245	\$ 1,305,713	4
Operating Income (Loss)			
Kaplan international	\$ 33,457	\$ 15,248	—
Higher education	24,134	24,364	(1)
Supplemental education	36,919	19,705	87
Kaplan corporate and other	(24,715)	(18,266)	(35)
Amortization of intangible assets	(16,001)	(17,174)	7
Impairment of long-lived assets	(3,318)	(12,278)	73
Intersegment elimination	97	5	—
	\$ 50,573	\$ 11,604	—

Kaplan International includes postsecondary education, professional training and language training businesses largely outside the United States. Kaplan International revenue increased 11% in 2021 (5% on a constant currency basis). The increase is due largely to growth at UK Professional and Pathways, partially offset by declines at Languages. Kaplan International reported operating income of \$33.5 million in 2021, compared to \$15.2 million in 2020. The increase in operating results is due to a reduction in losses at Languages and improved results at Pathways and UK Professional. Overall, Kaplan International's operating results were negatively impacted by \$43 million and \$55 million in losses, respectively, incurred at Languages from continued significant COVID-19 disruptions in 2021 and 2020. In addition, Kaplan International's 2020 results include \$4.5 million of lease restructuring costs (including \$1.6 million in accelerated depreciation expense) and \$4.4 million of severance restructuring costs. If a continuation of travel restrictions imposed as a result of COVID-19 persists, Kaplan expects the disruption of its Languages business operating environment to continue into 2022.

Higher Education primarily includes the results of Kaplan as a service provider to higher education institutions. In 2021, Higher Education revenue increased 1% due to an increase in the Purdue Global fee recorded and an increase in revenue from other higher education institutions. In 2021 and 2020, Kaplan recorded a portion of the fee with Purdue Global based on an assessment of its collectability under the TOSA. The Company will continue to assess the collectability of the fee with Purdue Global on a quarterly basis to make a determination as to whether to record all or part of the fee in the future and whether to make adjustments to fee amounts recognized in earlier periods. During 2021 and 2020, Kaplan recorded \$34.8 million and \$31.6 million, respectively, in fees from Purdue Global in its Higher Education operating results. Kaplan Higher Education recorded \$3.6 million in lease restructuring costs in 2020, of which \$0.2 million was accelerated depreciation expense.

Supplemental Education includes Kaplan's standardized test preparation programs and domestic professional and other continuing education businesses. In November 2021, Supplemental Education acquired two small businesses. Supplemental Education revenue decreased 6% in 2021 due to a decline in retail comprehensive test preparation demand and classroom-based course offerings, offset in part by growth in securities, insurance and real estate programs. Operating results increased 87% in 2021 due to savings from restructuring activities implemented in 2020, and \$5.4 million of lease restructuring costs (\$1.8 million of which was accelerated depreciation) and \$1.8 million in severance restructuring costs incurred in 2020.

Kaplan corporate and other represents unallocated expenses of Kaplan, Inc.'s corporate office, other minor businesses and certain shared activities. Overall, Kaplan corporate and other expenses increased in 2021 due to normalization of compensation costs compared to 2020, which included salary abatements and reduced incentive compensation accruals.

Television Broadcasting

A summary of television broadcasting's operating results is as follows:

(in thousands)	Year Ended December 31		% Change
	2021	2020	
Revenue	\$ 494,177	\$ 525,212	(6)
Operating Income	149,422	194,498	(23)

Revenue at the television broadcasting division decreased 6% to \$494.2 million in 2021, from \$525.2 million in 2020. The revenue decrease is due to an \$89.0 million decline in political advertising revenue, partially offset by increased local and national advertising revenues, which were adversely impacted in 2020 by reduced demand related to the COVID-19 pandemic, a \$12.3 million increase in retransmission revenues, and increased revenue from summer Olympics-related advertising revenue at the Company's NBC affiliates. The increase in local and national television advertising was from growth in the home products, health and fitness, and sports betting categories. In 2021 and 2020, the television broadcasting division recorded \$1.0 million and \$2.9 million, respectively, in reductions to operating expenses related to property, plant and equipment gains due to new equipment received at no cost in connection with the spectrum repacking mandate of the FCC. Operating income for 2021 was down 23% to \$149.4 million, from \$194.5 million in 2020, due to reduced revenues and higher network fees. While per subscriber rates from cable and satellite providers have grown, overall cable and satellite subscribers are down due to cord cutting, resulting in low growth in retransmission revenue net of network fees in 2021, which is expected to continue in the future.

Operating margin at the television broadcasting division was 30% in 2021 and 37% in 2020.

Graham Media Group's broadcast stations remained well-positioned and competitive in their markets, despite overall viewing declines from a heightened 2020. On average for the year, KSAT in San Antonio and WJXT in Jacksonville once again ranked number one in the key 6 a.m., 6 p.m. and late newscasts among the all-important 25 to 54 demographic. WDIV in Detroit ended the year as a dominant number one at 6 p.m. and in late news, while number two in the mornings. KPRC wrapped up 2021 as a solid number two in evening and late newscasts, third at

6 a.m. with minimal separation from competitors. WKMG grew market position in morning and late news, finishing number two while remaining third at 6 p.m. WSLS remained third in key newscasts for the year, while syndication remained a strength for WCWJ in daytime and early fringe. Our local station's websites finished another year as the number one media sites in their respective markets.

Manufacturing

A summary of manufacturing's operating results is as follows:

(in thousands)	Year Ended December 31		% Change
	2021	2020	
Revenue	\$ 458,125	\$ 416,137	10
Operating (Loss) Income	(16,048)	12,328	—

Manufacturing includes four businesses: Hoover, a supplier of pressure impregnated kiln-dried lumber and plywood products for fire retardant and preservative applications; Dekko, a manufacturer of electrical workspace solutions, architectural lighting and electrical components and assemblies; Joyce/Dayton, a manufacturer of screw jacks and other linear motion systems; and Forney, a global supplier of products and systems that control and monitor combustion processes in electric utility and industrial applications.

Manufacturing revenues increased 10% in 2021 due to significantly increased revenues at Hoover from substantially higher wood prices in 2021 and increased revenues at Joyce/Dayton, partially offset by lower revenues at Forney and declines at Dekko from lower product demand, particularly in the commercial office electrical products and hospitality sectors. Wood prices have been highly volatile in 2021 and 2020; overall, Hoover results include gains on inventory sales in 2021 and 2020 from generally increasing wood prices during these years. Manufacturing operating results declined in 2021 due to \$28.0 million in goodwill and other long-lived asset impairment charges; \$26.7 million of this charge was recorded at Dekko in the third quarter of 2021, due to continued weakness in demand for certain Dekko products related to the COVID-19 pandemic, increases in labor and commodity costs and related supply chain challenges. Excluding these impairment charges, manufacturing results were down modestly in 2021 due to declines at Dekko and Forney, partially offset by overall improved results at Hoover. The Company's manufacturing businesses are operating in a highly competitive market for production labor, resulting in substantial wage increases and higher labor costs in 2021.

In the second quarter of 2021, Dekko announced a plan to relocate its manufacturing operations in Shelton, CT to other Dekko manufacturing facilities, which was substantially completed by the end of 2021. In connection with this activity, Dekko implemented a SIP for the affected employees, resulting in \$1.1 million in non-operating SIP expense recorded in the second quarter of 2021, to be funded by the assets of the Company's pension plan.

Healthcare

A summary of healthcare's operating results is as follows:

(in thousands)	Year Ended December 31		% Change
	2021	2020	
Revenue	\$ 223,030	\$ 198,196	13
Operating Income	26,806	26,107	3

The Graham Healthcare Group (GHG) provides home health and hospice services in four states. In December 2021, GHG acquired two small businesses, one of which expanded GHG's home health operations into Florida. GHG provides other healthcare services, including nursing care and prescription services for patients receiving in-home infusion treatments through its 75% interest in CSI Pharmacy Holding Company, LLC (CSI). Healthcare revenues increased 13% in 2021, largely due to growth at CSI and home health services. The increase in GHG operating results in 2021 is due to improved results from CSI and home health services, partially offset by a decline in results from hospice services. GHG is operating in a highly competitive market for nurses and clinical staffing, resulting in substantial compensation increases in 2021. In certain cases, this challenging competitive market has adversely impacted GHG's ability to meet existing customer demand.

In the second quarter of 2020, GHG received \$7.4 million from the Federal Coronavirus Aid, Relief, and Economic Security Act (CARES Act) Provider Relief Fund. GHG did not apply for these funds; they were disbursed to GHG as a Medicare provider under the CARES Act. Under the Department of Health and Human Services guidelines, these funds may be used to offset revenue reductions and expenses incurred in connection with the COVID-19 pandemic. Of this amount, GHG recorded \$5.7 million in revenue in the second and third quarters of 2020, to partially offset the impact of revenue reductions due to the COVID-19 pandemic from the curtailment of elective procedures by health systems and other factors. The remaining amount of \$1.7 million was recorded as a credit to operating costs in the

second quarter of 2020 to partially offset the impact of costs incurred to procure personal protective equipment for GHG employees and other COVID-19 related costs.

The Company also holds interests in four home health and hospice joint ventures managed by GHG, whose results are included in equity in earnings of affiliates in the Company's Consolidated Statements of Operations. In 2021 and 2020, the Company recorded equity in earnings of \$10.2 million and \$9.7 million, respectively, from these joint ventures.

Automotive

A summary of automotive's operating results is as follows:

(in thousands)	Year Ended December 31		
	2021	2020	% Change
Revenue	\$ 327,069	\$ 258,144	27
Operating Income (Loss)	11,771	(6,196)	—

Automotive includes four automotive dealerships in the Washington, D.C. metropolitan area: Ourisman Lexus of Rockville, Ourisman Honda of Tysons Corner, Ourisman Jeep Bethesda and Ourisman Ford of Manassas. On December 28, 2021, the Company acquired Ford of Manassas located in Manassas, VA from the Battlefield Automotive Group. Christopher J. Ourisman, a member of the Ourisman Automotive Group family of dealerships, and his team of industry professionals operates and manages the dealerships; the Company holds a 90% stake.

Revenues for 2021 increased 27% due to sales growth at each of the three legacy dealerships, due partly to significantly reduced demand for sales and service in the first half of 2020 at the onset of the COVID-19 pandemic in March 2020, and higher average new and used car selling prices as a result of strong consumer demand and inventory shortages related to supply chain disruptions and production delays at vehicle manufacturers. In the first quarter of 2020, the Company's automotive dealerships recorded a \$6.7 million intangible asset impairment charge as a result of the pandemic and the related recessionary conditions. Operating results for 2021 improved significantly from the prior year due to increased sales and margins, in addition to the impairment charge recorded in the first quarter of 2020.

Other Businesses

Leaf Group

On June 14, 2021, the Company closed on the acquisition of all outstanding shares of common stock of Leaf Group Ltd. (Leaf) at \$8.50 per share in an all cash transaction valued at approximately \$322 million. Leaf Group, headquartered in Santa Monica, CA, is a consumer internet company that builds enduring, creator-driven brands that reach passionate audiences in large and growing lifestyle categories, including fitness and wellness (Well+Good, Livestrong.com and MyPlate App), and home, art and design (Saatchi Art, Society6 and Hunker).

The Leaf operating results for the period June 14, 2021 to December 31, 2021 are included in other businesses. Leaf has three major operating divisions: Society6 Group and Saatchi Art Group (Marketplace businesses) and the Media Group. Overall, Leaf reported an operating loss for the second half of 2021.

Clyde's Restaurant Group

Clyde's Restaurant Group (CRG) owns and operates eleven restaurants and entertainment venues in the Washington, D.C. metropolitan area, including Old Ebbitt Grill and The Hamilton. As a result of the COVID-19 pandemic, CRG temporarily closed all of its restaurants and venues in March 2020 through mid-June 2020, pursuant to government orders, maintaining limited operations for delivery and pickup. CRG recorded a \$9.7 million goodwill and intangible assets impairment charge in the first quarter of 2020. In June 2020, CRG made the decision to close its restaurant and entertainment venue in Columbia, MD effective July 19, 2020, resulting in accelerated depreciation of property, plant and equipment totaling \$5.7 million recorded in the second and third quarters of 2020. In December 2020, CRG temporarily closed its restaurant dining rooms in Maryland and the District of Columbia for the second time, reopening again for limited indoor dining service in mid-February 2021. Dining restrictions from government orders were substantially lifted for all of CRG's operations by the end of the second quarter of 2021.

Overall, CRG incurred significant operating losses in 2021 and 2020 due to limited revenues and costs incurred to maintain its facilities and support its employees; however, the losses incurred in 2021 were significantly lower than the losses in 2020. While CRG operations have been adversely impacted as a result of the pandemic, both revenues and operating results improved substantially in 2021 as the year progressed.

Framebridge

On May 15, 2020, the Company acquired Framebridge, Inc., a custom framing service company, headquartered in Washington, D.C., with two retail locations in the D.C. metropolitan area and a manufacturing facility in Richmond, KY. At the end of 2021, Framebridge had fifteen retail locations in the Washington, D.C., New York City, Atlanta, GA, Philadelphia, PA, Boston, MA and Chicago, IL areas and three manufacturing facilities in Kentucky and New Jersey. Framebridge expects to open four additional stores in the first half of 2022. Framebridge revenues in 2021 increased from the prior year; however, revenues were down modestly in the fourth quarter of 2021 due to limited production capacity related to the challenging labor market and COVID-19 related workforce absences. In the fourth quarter of 2021, Framebridge prioritized the production of holiday guaranteed orders successfully and continue to manage a significant backlog of orders into the first quarter of 2022. Framebridge is an investment stage business and reported significant operating losses in 2021.

Code3

Code3 is a performance marketing agency focused on driving performance for brands through three core elements of digital success: media, creative and commerce. Code3 revenues were relatively flat in 2021 compared to 2020, with strong growth in creative and commerce revenues, offset by a decline in marketing spending by some advertising clients. Code3 reported overall operating losses in 2021 and 2020. In the second quarter of 2021, Code3 recorded a \$1.6 million lease impairment charge (including \$0.4 million in property, plant and equipment write-downs). Excluding this impairment charge, Code3 reported operating income for 2021. In the second quarter of 2020, Code3 recorded a \$1.5 million lease impairment charge (including \$0.1 million in property, plant and equipment write-downs) in connection with a restructuring plan that included other cost reduction initiatives. These initiatives included the approval of a SIP that reduced the number of employees at Code3, resulting in \$1.0 million in non-operating pension expense in the second quarter of 2020.

Megaphone

Megaphone was sold by the Company to Spotify in December 2020.

Other

Other businesses also include Slate and Foreign Policy, which publish online and print magazines and websites; and four investment stage businesses, CyberVista, Decile and Pinna, as well as City Cast, a local daily podcast business that began operations in 2021. All of these businesses reported revenue increases in 2021. Losses from each of these six businesses in 2021 adversely affected operating results.

Overall, for 2021, operating revenues for other businesses increased due largely to increases from the Leaf and Framebridge acquisitions and increases at CRG, partially offset by declines due to the sale of Megaphone in December 2020. Operating results declined in 2021 due to increased losses at Framebridge and losses at Leaf, partially offset by improvements at CRG, in addition to the goodwill and other long-lived asset impairment charges recorded in the first quarter of 2020 at CRG.

Corporate Office

Corporate office includes the expenses of the Company's corporate office and certain continuing obligations related to prior business dispositions. Corporate office expenses increased in 2021 due primarily to higher compensation costs, offset by a credit related to the fair value change in contingent consideration related to the Framebridge acquisition.

Equity in Earnings of Affiliates

At December 31, 2021, the Company held an approximate 12% interest in Intersection Holdings, LLC (Intersection), a company that provides digital marketing and advertising services and products for cities, transit systems, airports, and other public and private spaces. The Company also holds interests in several other affiliates, including a number of home health and hospice joint ventures managed by GHG and two joint ventures managed by Kaplan. The Company recorded equity in earnings of affiliates of \$17.9 million and \$6.7 million for 2021 and 2020, respectively. These amounts include \$12.6 million in net earnings for 2021 and \$2.1 million in net losses for 2020 from affiliates whose operations are not managed by the Company; this includes losses from the Company's investment in Intersection for 2021. The Company also recorded \$6.4 million in write-downs in equity in earnings of affiliates related to one of its investments in the third quarter of 2021 and \$3.6 million in write-downs in equity in earnings of affiliates related to two of its investments in the first quarter of 2020.

The recessionary environment resulting from the COVID-19 pandemic adversely impacted the underlying businesses of Intersection due to lower marketing spending by advertising clients. The decline in revenues adversely impacted the operating results and liquidity of the business since the onset of the COVID-19 pandemic.

The Company concluded that these events are not indicative of an other than temporary decline in the value of its investment to an amount less than its carrying value. Given the uncertain economic impact of the COVID-19 pandemic, it is possible that an other than temporary impairment charge could occur in the future should Intersection fail to execute on its operating strategy to address the decline in revenues and operating results. Further, the Company recorded a \$30.5 million loss in equity earnings related to Intersection in 2021 and expects to record additional losses in 2022.

Net Interest Expense and Related Balances

In October 2021, the automotive subsidiary of the Company borrowed \$24.75 million and entered into an interest rate swap to fix the interest rate on the debt at 4.118% per annum; the proceeds from this borrowing were used to repay the outstanding balance of the automotive subsidiary debt that was due on January 31, 2029. The automotive subsidiary is required to repay the loan over a 10-year period by making monthly installment payments and one final payment on October 1, 2031. Additionally, in connection with the Ford automotive dealership acquisition, in December 2021, the automotive subsidiary borrowed \$22.5 million, which bears interest at SOFR plus 2.05% per annum. The automotive subsidiary is required to repay the loan over a 10-year period by making monthly installment payments.

The Company incurred net interest expense of \$30.5 million in 2021, compared to \$34.4 million in 2020. The Company recorded net interest expense of \$4.1 million in 2021 to adjust the fair value of the mandatorily redeemable noncontrolling interest at GHG. The Company recorded interest expense of \$8.5 million to adjust the fair value of the mandatorily redeemable noncontrolling interest at GHG in the fourth quarter of 2020.

At December 31, 2021, the Company had \$667.5 million in borrowings outstanding at an average interest rate of 4.3%, and cash, marketable securities and other investments of \$983.3 million. At December 31, 2021, the Company had \$209.6 million outstanding on its \$300 million revolving credit facility. At December 31, 2020, the Company had \$512.6 million in borrowings outstanding at an average interest rate of 5.1%, and cash, marketable securities and other investments of \$1,010.6 million.

Non-Operating Pension and Postretirement Benefit Income, Net

The Company recorded net non-operating pension and postretirement benefit income of \$109.2 million in 2021, compared to \$59.3 million in 2020.

In the second quarter of 2021, the Company recorded \$1.1 million in expenses related to a non-operating SIP at manufacturing. In the third quarter of 2020, the Company recorded \$7.8 million in expenses related to a non-operating SIP at the education division. In the second quarter of 2020, the Company recorded \$6.0 million in expenses related to a non-operating SIP at the education division and other businesses.

Gain on Marketable Equity Securities, Net

The Company recognized \$243.1 million and \$60.8 million in net gains on marketable equity securities in 2021 and 2020, respectively.

Other Non-Operating Income

The Company recorded total other non-operating income, net, of \$32.6 million in 2021, compared to \$214.5 million in 2020. The 2021 amounts included \$11.8 million in fair value increases on cost method investments; \$9.4 million in gains on sales of cost method investments; \$3.8 million in gains related to sales of businesses and contingent consideration and other items. The 2020 amounts included \$213.3 million in net gains related to sales of businesses and contingent consideration; \$4.2 million in fair value increases on cost method investments; \$3.7 million gain on acquiring a controlling interest in an equity affiliate; \$1.4 million net gain on sales of equity affiliates and other items; partially offset by \$7.3 million in impairments on cost method investments; and \$2.2 million in foreign currency losses.

Provision for Income Taxes

The Company's effective tax rate for 2021 was 21.4%. The Company's effective tax rate for 2021 was favorably impacted by a \$17.2 million deferred tax adjustment arising from a change in the estimated deferred state income tax rate attributable to the apportionment formula used in the calculation of deferred taxes related to the Company's pension and other postretirement plans. Excluding this \$17.2 million benefit, the overall income tax rate for 2021 was 25.2%.

The Company's effective tax rate for 2020 was 26.3%. In 2020, the Company recorded income tax expense related to stock compensation of \$2.9 million. Excluding this \$2.9 million expense, the overall income tax rate for 2020 was 25.6%.

FINANCIAL CONDITION: LIQUIDITY AND CAPITAL RESOURCES

The Company considers the following when assessing its liquidity and capital resources:

(In thousands)	As of December 31	
	2021	2020
Cash and cash equivalents	\$ 145,886	\$ 413,991
Restricted cash	12,957	9,063
Investments in marketable equity securities and other investments	824,445	587,582
Total debt	667,501	512,555

Cash generated by operations is the Company's primary source of liquidity. The Company maintains investments in a portfolio of marketable equity securities, which is considered when assessing the Company's sources of liquidity. An additional source of liquidity includes the undrawn portion of the Company's \$300 million five-year revolving credit facility, amounting to \$90.4 million at December 31, 2021.

In March 2020, the U.S. government enacted legislation, including the CARES Act to provide stimulus in the form of financial aid to businesses affected by the COVID-19 pandemic. Under the CARES Act, employers could defer the payment of the employer share of FICA taxes due for the period beginning on March 27, 2020, and ending December 31, 2020. The Company deferred \$21.5 million of FICA payments under this program, with \$10.7 million of the deferred payments still payable at December 31, 2021. The remaining deferred balance is due by December 31, 2022.

The CARES Act also included provisions to support healthcare providers in the form of grants and changes to Medicare and Medicaid payments. In the second quarter of 2020, GHG received \$7.4 million under the CARES Act as a general distribution from the Provider Relief Fund to provide relief for lost revenues and expenses incurred in connection with COVID-19. In addition to the above distribution, in April 2020, GHG applied for and received \$31.5 million under the expanded Medicare Accelerated and Advanced Payment Program, modified by the CARES Act. The Department of Health and Human Services (HHS) started to recoup this advance in April 2021 by withholding a portion of the amount reimbursed for claims submitted for services provided after the beginning of the recoupment period. During 2021, an amount of \$18.9 million was withheld by HHS and the Company expects the remaining balance of \$12.6 million to be withheld from claims submitted in the first half of 2022.

Governments in other jurisdictions where the Company operates also provided relief to businesses affected by the COVID-19 pandemic in the form of job retention schemes, payroll assistance, deferral of income and other tax payments, and loans. For the years ended December 31, 2021, and 2020, Kaplan has recorded benefits totaling \$4.7 million and \$12.2 million, respectively, related to job retention and payroll schemes, mostly at Kaplan International.

During 2021, the Company's cash and cash equivalents decreased by \$268.1 million, due to the acquisition of Leaf and several other businesses, the purchase of marketable equity securities, deferred payments on previous acquisitions, capital expenditures, dividend payments and share repurchases, which was partially offset by cash generated from operations, the net proceeds from the sale of marketable equity securities and net issuance of borrowings. In 2021, the Company's borrowings increased by \$154.9 million, due to additional borrowings under the revolving credit facility and at the automotive subsidiary, which were partially offset by repayments.

The Company had no money market investments as of December 31, 2021, compared to \$268.8 million at December 31, 2020, which are included in cash and cash equivalents. At December 31, 2021, the Company held approximately \$119 million in cash and cash equivalents in businesses domiciled outside the U.S., of which approximately \$8 million is not available for immediate use in operations or for distribution. Additionally, Kaplan's business operations outside the U.S. retain cash balances to support ongoing working capital requirements, capital expenditures, and regulatory requirements. As a result, the Company considers a significant portion of the cash and cash equivalents balance held outside the U.S. as not readily available for use in U.S. operations.

At December 31, 2021, the fair value of the Company's investments in marketable equity securities was \$810.0 million, which includes investments in the common stock of seven publicly traded companies. The Company purchased \$48.0 million of marketable equity securities during 2021. During 2021, the Company sold marketable equity securities that generated proceeds of \$65.5 million. At December 31, 2021, the net unrealized gain related to the Company's investments totaled \$536.8 million.

The Company had working capital of \$680.8 million and \$824.5 million at December 31, 2021 and 2020, respectively. The Company maintains working capital levels consistent with its underlying business requirements and consistently generates cash from operations in excess of required interest or principal payments.

At December 31, 2021 and 2020, the Company had borrowings outstanding of \$667.5 million and \$512.6 million, respectively. The Company's borrowings at December 31, 2021 were mostly from \$400.0 million of 5.75%

unsecured notes due June 1, 2026, \$209.6 million in outstanding borrowings under the Company's revolving credit facility and commercial notes of \$47.0 million at the Automotive subsidiary. The Company's borrowings at December 31, 2020 were mostly from \$400.0 million of 5.75% unsecured notes due June 1, 2026, £55 million in outstanding borrowings under the Company's revolving credit facility and a commercial note of \$25.3 million at the Automotive subsidiary. The interest on \$400.0 million of 5.75% unsecured notes is payable semiannually on June 1 and December 1.

During 2021 and 2020, the Company had average borrowings outstanding of approximately \$545.2 million and \$512.4 million, respectively, at average annual interest rates of approximately 4.8% and 5.1%, respectively. The Company incurred net interest expense of \$30.5 million and \$34.4 million, respectively, during 2021 and 2020. Included in the 2021 and 2020 interest expense is an amount of \$4.1 million and \$8.5 million, respectively, to adjust the fair value of the mandatorily redeemable noncontrolling interest (see Note 11).

On June 3, 2021, Moody's affirmed the Company's credit rating and revised the outlook from Negative to Stable. On April 27, 2021, Standard & Poor's affirmed the Company's credit rating and revised the outlook from Negative to Stable.

The Company's current credit ratings are as follows:

	Moody's	Standard & Poor's
Long-term	Ba1	BB
Outlook	Stable	Stable

The Company expects to fund its estimated capital needs primarily through existing cash balances and internally generated funds, and, as needed, from borrowings under its revolving credit facility. As of December, 31, 2021, the Company had \$209.6 million outstanding under the \$300 million revolving credit facility, which borrowing was used to purchase land and buildings at Kaplan International's sixth-form college in London, U.K. and at the automotive division in the third quarter of 2021, to repay the £60 million Kaplan UK credit facility that matured at the end of June 2020 and, to a lesser extent, to repurchase stock and fund various acquisitions during the fourth quarter of 2021. In management's opinion, the Company will have sufficient financial resources to meet its business requirements in the next 12 months, including working capital requirements, capital expenditures, interest payments, potential acquisitions and strategic investments, dividends and stock repurchases.

In summary, the Company's cash flows for each period were as follows:

(In thousands)	Year Ended December 31		
	2021	2020	2019
Net cash provided by operating activities	\$ 202,426	\$ 210,663	\$ 165,164
Net cash (used in) provided by investing activities	(494,635)	199,371	(236,735)
Net cash provided by (used in) financing activities	31,027	(204,002)	18,734
Effect of currency exchange rate change	(3,029)	2,978	2,766
Net (decrease) increase in cash and cash equivalents and restricted cash	\$ (264,211)	\$ 209,010	\$ (50,071)

Operating Activities. Cash provided by operating activities is net income adjusted for certain non-cash items and changes in assets and liabilities. The Company's net cash flow provided by operating activities were as follows:

(In thousands)	Year Ended December 31		
	2021	2020	2019
Net Income	\$ 353,327	\$ 299,968	\$ 327,879
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and goodwill and other long-lived asset impairment	162,225	161,207	121,648
Amortization of lease right-of-use asset	73,752	89,956	84,185
Net pension benefit, settlement, and special separation benefit expense	(91,898)	(41,573)	(137,909)
Other non-cash activities	(183,742)	(229,134)	(34,714)
Change in operating assets and liabilities	(111,238)	(69,761)	(195,925)
Net Cash Provided by Operating Activities	\$ 202,426	\$ 210,663	\$ 165,164

Net cash provided by operating activities consists primarily of cash receipts from customers, less disbursements for costs, benefits, income taxes, interest and other expenses.

For 2021 compared to 2020, the decrease in net cash provided by operating activities is primarily due to changes in operating assets and liabilities, partially offset by higher net income, net of non-cash adjustments. Changes in operating assets and liabilities were driven by a decrease in the collection of accounts receivable and partial

repayment of advances related to the CARES Act, partially offset by other increases in accounts payable and accrued liabilities and deferred revenue.

For 2020 compared to 2019, the increase in net cash provided by operating activities is primarily due to changes in operating assets and liabilities. Changes in operating assets and liabilities were driven by the collection of accounts receivable, the advance received by GHG under the expanded Medicare Accelerated and Advanced Payment Program as modified by the CARES Act, and the deferral of FICA payments under the CARES Act.

Investing Activities. The Company's net cash flow (used in) provided by investing activities were as follows:

(In thousands)	Year Ended December 31		
	2021	2020	2019
Investments in certain businesses, net of cash acquired	\$ (351,882)	\$ (20,080)	\$ (179,421)
Purchases of property, plant and equipment	(162,537)	(69,591)	(93,504)
Net proceeds from sales of marketable equity securities	17,463	73,771	11,804
Investments in equity affiliates, cost method and other investments	(8,531)	(12,367)	(27,529)
Net proceeds from sales of businesses, property, plant and equipment and other assets	10,295	225,570	54,495
Other	557	2,068	(2,580)
Net Cash (Used in) Provided by Investing Activities	\$ (494,635)	\$ 199,371	\$ (236,735)

Acquisitions. During 2021, the Company acquired six businesses: two small businesses in its education division, two small businesses in healthcare, one new auto dealership in automotive, and all the outstanding shares of Leaf for cash and the assumption of \$9.2 million in liabilities related to their pre-acquisition stock compensation plan, which will be paid in the future. Leaf is included in other businesses. During 2020, the Company acquired three businesses: two small businesses in its education division and an additional interest in Framebridge, Inc., which is included in other businesses. The Framebridge purchase price included \$54.3 million in deferred payments and contingent consideration based on the acquiree achieving certain revenue milestones in the future. During 2019, the Company acquired eight businesses: one in education, three in healthcare, one in manufacturing, two in automotive, and one in other businesses for \$211.8 million in cash and contingent consideration and the assumption of \$25.8 million in floor plan payables.

Capital Expenditures. The 2021 capital expenditures are higher than 2020 and 2019 primarily due to land and building purchases at Kaplan International's sixth-form college in London, U.K. and at the automotive division. The 2020 and 2019 capital expenditures include spending in connection with spectrum repacking at the Company's television stations in Detroit, MI, Jacksonville, FL, and Roanoke, VA, as mandated by the FCC; these spectrum repacking expenditures were largely reimbursed to the Company by the FCC. The 2020 capital expenditures are lower than 2019 due to the completion of the construction of an academic and student residential facility in connection with Kaplan's Pathways program in Liverpool, U.K. The amounts reflected in the Company's Statements of Cash Flows are based on cash payments made during the relevant periods, whereas the Company's capital expenditures for 2021, 2020 and 2019 disclosed in Note 19 to the Consolidated Financial Statements include assets acquired during the year. The Company estimates that its capital expenditures will be in the range of \$80 million to \$90 million in 2022.

Net Proceeds from Sales of Investments and Businesses. During 2021, 2020 and 2019, the Company sold marketable securities that generated proceeds of \$65.5 million, \$93.8 million and \$19.3 million, respectively. The Company purchased \$48.0 million, \$20.0 million and \$7.5 million of marketable equity securities during 2021, 2020 and 2019, respectively. In December 2020, the Company completed the sale of Megaphone; the total net proceeds from the sale were \$223.0 million. In November 2019, Kaplan UK completed the sale of a small business which was included in Kaplan International. The Company sold its interest in Gimlet Media during February 2019; the total proceeds from the sale were \$33.5 million.

Financing Activities. The Company's net cash flow provided by (used in) financing activities were as follows:

(In thousands)	Year Ended December 31		
	2021	2020	2019
Issuance (repayments) of borrowings	\$ 20,539	\$ (81,276)	\$ 32,548
Net borrowing under revolving credit facilities	134,696	76,241	—
Net (repayments of) proceeds from vehicle floor plan payable	(10,563)	(14,160)	14,384
Common shares repurchased	(55,683)	(161,829)	(2,103)
Dividends paid	(30,136)	(29,970)	(29,553)
Other	(27,826)	6,992	3,458
Net Cash Provided by (Used in) Financing Activities	\$ 31,027	\$ (204,002)	\$ 18,734

Borrowings and Vehicle Floor Plan Payable. In 2021, the Company borrowed against the \$300 million revolving credit facility, which borrowing was used to purchase land and buildings at Kaplan International's sixth-form college in London, U.K. and at the automotive division and, to a lesser extent, to repurchase stock and fund various acquisitions during the fourth quarter of 2021. In addition, the automotive subsidiary borrowed \$47.3 million, which was used to repay the outstanding balance of the term loan due on January 31, 2029 and fund the acquisition of an automotive dealership in the fourth quarter. In 2020, the Company borrowed £60 million against the \$300 million revolving credit facility and used the proceeds to repay the £60 million outstanding balance under the Kaplan Credit Agreement that matured at the end of June 2020. The Company repaid £5 million of these borrowings in the fourth quarter of 2020. In 2019, the Company had cash inflows from borrowings to fund the acquisition of two businesses at automotive and healthcare and used floor vehicle plan financing to fund the purchase of new vehicles at its automotive subsidiary.

Common Stock Repurchases. During 2021, 2020, and 2019, the Company purchased a total of 93,969, 406,112, and 3,392 shares, respectively, of its Class B common stock at a cost of approximately \$55.7 million, \$161.8 million, and \$2.1 million, respectively. On September 10, 2020, the Board of Directors authorized the Company to acquire up to 500,000 shares of its Class B common stock. The Company did not announce a ceiling price or time limit for the purchases. At December 31, 2021, the Company had remaining authorization from the Board of Directors to purchase up to 270,182 shares of Class B common stock.

Dividends. The annual dividend rate per share was \$6.04, \$5.80 and \$5.56 in 2021, 2020 and 2019, respectively. The Company expects to pay a dividend of \$6.32 per share in 2022.

Other. In 2021, the Company paid \$30.9 million related to contingent consideration and deferred payments from prior acquisitions, mostly for the 2020 acquisition of Framebridge. In March 2021, Hoover's minority shareholders put their remaining outstanding shares to the Company, which had a redemption value of \$3.5 million. In 2020, the Company received \$25.1 million in proceeds from the exercise of stock options. In March 2019, a Hoover minority shareholder put some shares to the Company, which had a redemption value of \$0.6 million.

Contractual Obligations. The following reflects a summary of the Company's contractual obligations as of December 31, 2021:

(in thousands)	2022	2023	2024	2025	2026	Thereafter	Total
Debt and interest	\$ 33,092	\$ 241,678	\$ 35,212	\$ 28,626	\$ 415,938	\$ 36,537	\$ 791,083
Operating leases	107,541	79,854	64,030	50,392	45,897	296,514	644,228
Programming purchase commitments ⁽¹⁾	8,821	4,952	213	177	—	—	14,163
Other purchase obligations ⁽²⁾	97,789	44,696	24,615	12,016	6,820	25,366	211,302
Long-term liabilities ⁽³⁾	2,820	2,729	2,596	2,494	2,433	10,786	23,858
Total	\$ 250,063	\$ 373,909	\$ 126,666	\$ 93,705	\$ 471,088	\$ 369,203	\$ 1,684,634

(1) Includes commitments for the Company's television broadcasting business that are reflected in the Company's Consolidated Financial Statements and commitments to purchase programming to be produced in future years.

(2) Includes purchase obligations related to employment agreements, capital projects and other legally binding commitments. Other purchase orders made in the ordinary course of business are excluded from the table above. Any amounts for which the Company is liable under purchase orders are reflected in the Company's Consolidated Balance Sheets as accounts payable and accrued liabilities.

(3) Primarily made up of multiemployer pension plan withdrawal obligations and postretirement benefit obligations other than pensions. The Company has other long-term liabilities excluded from the table above, including obligations for deferred compensation, long-term incentive plans and long-term deferred revenue.

In management's opinion, the Company will have sufficient financial resources to meet its business requirements in the next 12 months, including working capital requirements, capital expenditures, interest payments, potential acquisitions and strategic investments, dividends and stock repurchases.

Other. The Company does not have any off-balance-sheet arrangements or financing activities with special-purpose entities (SPEs).

CRITICAL ACCOUNTING POLICIES AND ESTIMATES

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and judgments that affect the amounts reported in the financial statements. On an ongoing basis, the Company evaluates its estimates and assumptions. The Company bases its estimates on historical experience and other assumptions believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not readily apparent from other sources. Actual results could differ from these estimates.

An accounting policy is considered to be critical if it is important to the Company's financial condition and results and if it requires management's most difficult, subjective and complex judgments in its application. For a summary of all of the Company's significant accounting policies, see Note 2 to the Company's Consolidated Financial Statements.

Revenue Recognition, Trade Accounts Receivable and Allowance for Credit Losses. Education revenue is primarily derived from postsecondary education services, professional education and test preparation services. Revenue, net of any refunds, corporate discounts, scholarships and employee tuition discounts is recognized ratably over the instruction period or access period for higher education and supplemental education services.

At Kaplan International and Kaplan Supplemental Education, estimates of average student course length are developed for each course, along with estimates for the anticipated level of student drops and refunds from test performance guarantees, and these estimates are evaluated on an ongoing basis and adjusted as necessary. As Kaplan's businesses and related course offerings have changed, including more online programs, the complexity and significance of management's estimates have increased.

KHE provides non-academic operations support services to Purdue Global pursuant to a TOSA, which includes technology support, help-desk functions, human resources support for faculty and employees, admissions support, financial aid administration, marketing and advertising, back-office business functions, and certain student recruitment services. KHE is not entitled to receive any reimbursement of costs incurred in providing support services, or any fee, unless and until Purdue Global has first covered all of its operating costs (subject to a cap), received payment for cost efficiencies, if any, and during the first five years of the TOSA receive a priority payment of \$10 million per year in addition to the operating cost reimbursements and cost efficiency payments. KHE will receive reimbursement for its operating costs of providing the support services after payment of Purdue Global's operating costs, cost efficiency payments, and priority payment. If there are sufficient revenues, KHE may be entitled to a cost efficiency payment, if any, and additional fee equal to 12.5% of Purdue Global's revenue. Subject to certain limitations, a portion of the fee that is earned by KHE in one year may be carried over to subsequent years for payment to Kaplan.

The support fee and reimbursement for KHE support costs are entirely dependent on the availability of cash at the end of Purdue Global's fiscal year (June 30), and therefore, all consideration in the contract is variable. The Company uses significant judgment to forecast the operating results of Purdue Global, the availability of cash at the end of each fiscal year, and the consideration it expects to receive from Purdue Global annually. Key assumptions used in the forecast model include student census and degree enrollment data, Purdue Global and KHE expenses, changes to working capital, contractually stipulated minimum payments, and lead conversion rates. The forecast is updated as uncertainties are resolved. The Company reviews and updates the assumptions regularly, as a significant change in one or more of these estimates could affect revenue recognized. Changes to the estimated variable consideration were not material for the year ended December 31, 2021.

A Kaplan International business has a contract with an examination body through August 2032 comprised of two performance obligations, one to build and create a professional exam and another to manage the delivery of that exam to qualified candidates. The first obligation was completed in 2021. The second obligation began after the first obligation was completed and is expected to continue through the end of the contract term. Revenues are recognized for both of these obligations using forecasted financial results and the use of a market-based profit margin applied to costs incurred during the financial reporting period. This profit margin is different for each obligation as a result of the different value created by each distinct obligation. The forecast, including key assumptions such as expected candidate volumes and related exam-management expenses, is updated as future uncertainties are resolved, which may result in changes to the profit margin associated with each performance obligation. The Company reviews and updates the assumptions regularly, as a significant change in one or more of these estimates could affect revenue recognized. Changes to the estimated variable consideration were not material for the year ended December 31, 2021.

The determination of whether revenue should be reported on a gross or net basis is based on an assessment of whether the Company acts as a principal or an agent in the transaction. In certain cases, the Company is considered the agent, and the Company records revenue equal to the net amount retained when the fee is earned. In these cases, costs incurred with third-party suppliers is excluded from the Company's revenue. The Company assesses whether it obtained control of the specified goods or services before they are transferred to the customer as part of this assessment. In addition, the Company considers other indicators such as the party primarily responsible for fulfillment, inventory risk and discretion in establishing price.

Accounts receivable have been reduced by an allowance that reflects the current expected credit losses associated with the receivables. This estimated allowance is based on historical write-offs, current macroeconomic conditions, reasonable and supportable forecasts of future economic conditions and management's evaluation of the financial condition of the customer. The Company generally considers an account past due or delinquent when a student or customer misses a scheduled payment. The Company writes off accounts receivable balances deemed uncollectible against the allowance for credit losses following the passage of a certain period of time, or generally when the account is turned over for collection to an outside collection agency.

Goodwill and Other Intangible Assets. The Company has a significant amount of goodwill and indefinite-lived intangible assets that are reviewed at least annually for possible impairment.

(in millions)	As of December 31	
	2021	2020
Goodwill and indefinite-lived intangible assets	\$ 1,791.8	\$ 1,605.2
Total assets	7,425.5	6,444.1
Percentage of goodwill and indefinite-lived intangible assets to total assets	24 %	25 %

The Company performs its annual goodwill and intangible assets impairment test as of November 30. Goodwill and other intangible assets are reviewed for possible impairment between annual tests if an event occurred or circumstances changed that would more likely than not reduce the fair value of the reporting unit or other intangible assets below its carrying value.

Goodwill

The Company tests its goodwill at the reporting unit level, which is an operating segment or one level below an operating segment. The Company initially performs an assessment of qualitative factors to determine if it is necessary to perform a quantitative goodwill impairment test. The Company quantitatively tests goodwill for impairment if, based on its assessment of the qualitative factors, it determines that it is more likely than not that the fair value of a reporting unit is less than its carrying amount, or if it decides to bypass the qualitative assessment. The quantitative goodwill impairment test compares the estimated fair value of a reporting unit with its carrying amount, including goodwill. An impairment charge is recognized for the amount by which the carrying amount exceeds the reporting unit's fair value.

In the third quarter of 2021, as a result of the emergence of the COVID-19 Delta variant and continued weak product demand in the commercial office electrical products and hospitality sectors caused by the COVID-19 pandemic, the Company performed an interim review of the goodwill and indefinite-lived intangibles of the Dekko reporting unit. As a result of the impairment review, the Company recorded a \$26.7 million goodwill impairment charge. The Company estimated the fair value of the reporting unit by utilizing a discounted cash flow model. The carrying value of the reporting unit exceeded the estimated fair value, resulting in a goodwill impairment charge for the amount by which the carrying value exceeded the estimated fair value after taking into account the effect of deferred income taxes. Dekko is included in manufacturing.

The Company had 20 reporting units as of December 31, 2021. The reporting units with significant goodwill balances as of December 31, 2021, were as follows, representing 89% of the total goodwill of the Company:

(in millions)	Goodwill
Education	
Kaplan international	\$ 621.3
Higher education	63.2
Supplemental education	170.6
Television broadcasting	190.8
Leaf	162.0
Healthcare	118.3
Hoover	91.3
Dekko	47.8
Total	\$ 1,465.3

As of November 30, 2021, in connection with the Company's annual impairment testing, the Company decided to perform the quantitative goodwill impairment process at all of the reporting units with the exception of Framebridge, for which it performed a qualitative assessment. The Company's policy requires the performance of a quantitative impairment review of the goodwill at least once every three years. The Company used a discounted cash flow model, and, where appropriate, a market value approach was also utilized to supplement the discounted cash flow model to determine the estimated fair value of its reporting units. The Company made estimates and assumptions regarding future cash flows, discount rates, long-term growth rates and market values to determine each reporting unit's estimated fair value. The methodology used to estimate the fair value of the Company's reporting units on November 30, 2021, was consistent with the one used during the 2020 annual goodwill impairment test.

The Company made changes to certain of its assumptions utilized in the discounted cash flow models for 2021 compared with the prior year to take into account changes in the economic environment, regulations and their impact on the Company's businesses. The key assumptions used by the Company were as follows:

- Expected cash flows underlying the Company's business plans for the periods 2022 through 2026 were used. The Company used expected cash flows for the periods 2022 through 2031 for the Hoover reporting unit. The expected cash flows took into account historical growth rates, the effect of the changed economic outlook at the Company's businesses, industry challenges and an estimate for the possible impact of any applicable regulations.
- Cash flows beyond 2026 were projected to grow at a long-term growth rate, which the Company estimated between 1.5% and 3% for each reporting unit.
- The Company used a discount rate of 10% to 17% to risk adjust the cash flow projections in determining the estimated fair value.

The fair value of each of the reporting units exceeded its respective carrying value as of November 30, 2021.

The estimated fair value of the Dekko reporting unit at the manufacturing businesses exceeded its carrying value by a margin less than 25% following a goodwill impairment recorded in the third quarter of 2021. The total goodwill at this reporting unit was \$47.8 million as of December 31, 2021, or 3% of the total goodwill of the Company. There exists a reasonable possibility that a decrease in the assumed projected cash flows or long-term growth rate, or an increase in the discount rate assumption used in the discounted cash flow model of this reporting unit, could result in an additional impairment charge.

The estimated fair value of the Company's other reporting units with significant goodwill balances exceeded their respective carrying values by a margin in excess of 25%. It is possible that impairment charges could occur in the future, given changes in market conditions and the inherent variability in projecting future operating performance. Additional COVID-19 disruptions could result in future adverse changes in projections for future operating results or other key assumptions, such as projected revenue, profit margin, capital expenditures or cash flows associated with fair value estimates and could lead to additional future impairments, which could be material.

Indefinite-Lived Intangible Assets

The Company initially assesses qualitative factors to determine if it is more likely than not that the fair value of its indefinite-lived intangible assets is less than its carrying value. The Company compares the fair value of the indefinite-lived intangible asset with its carrying value if the qualitative factors indicate it is more likely than not that the fair value of the asset is less than its carrying value or if it decides to bypass the qualitative assessment. The Company records an impairment loss if the carrying value of the indefinite-lived intangible assets exceeds the fair value of the assets for the difference in the values. The Company uses a discounted cash flow model, and, in certain cases, a market value approach is also utilized to supplement the discounted cash flow model to determine the estimated fair value of the indefinite-lived intangible assets. The Company makes estimates and assumptions regarding future cash flows, discount rates, long-term growth rates and other market values to determine the estimated fair value of the indefinite-lived intangible assets. The Company's policy requires the performance of a quantitative impairment review of the indefinite-lived intangible assets at least once every three years.

The Company's intangible assets with an indefinite life are principally from trade names, franchise rights and FCC licenses. The fair value of the indefinite-lived intangible assets exceeded their respective carrying values as of November 30, 2021. There is always a possibility that impairment charges could occur in the future, given the inherent variability in projecting future operating performance. Additional COVID-19 disruptions could result in future adverse changes in projections for future operating results or other key assumptions, such as projected revenue, profit margin, capital expenditures or cash flows associated with fair value estimates and could lead to additional future impairments, which could be material.

Pension Costs. The Company sponsors a defined benefit pension plan for eligible employees in the U.S. Excluding curtailment gains, settlement gains and special termination benefits, the Company's net pension credit was \$93.0 million, \$55.4 million and \$52.7 million for 2021, 2020 and 2019, respectively. The Company's pension benefit obligation and related credits are actuarially determined and are impacted significantly by the Company's assumptions related to future events, including the discount rate, expected return on plan assets and rate of compensation increases. The Company evaluates these critical assumptions at least annually and, periodically, evaluates other assumptions involving demographic factors, such as retirement age, mortality and turnover, and updates them to reflect its experience and expectations for the future. Actual results in any given year will often differ from actuarial assumptions because of economic and other factors.

The Company assumed a 6.25% expected return on plan assets for 2021, 2020 and 2019. The Company's actual return on plan assets was 24.4% in 2021, 25.4% in 2020 and 23.9% in 2019. The 10-year and 20-year actual returns on plan assets on an annual basis were 13.7% and 10.0%, respectively.

Accumulated and projected benefit obligations are measured as the present value of future cash payments. The Company discounts those cash payments using the weighted average of market-observed yields for high-quality fixed-income securities with maturities that correspond to the payment of benefits. Lower discount rates increase present values and generally increase subsequent-year pension costs; higher discount rates decrease present values and decrease subsequent-year pension costs. The Company's discount rate at December 31, 2021, 2020 and 2019, was 2.9%, 2.5% and 3.3%, respectively, reflecting market interest rates.

Changes in key assumptions for the Company's pension plan would have had the following effects on the 2021 pension credit, excluding curtailment gains, settlement gains and special termination benefits:

- Expected return on assets – A 1% increase or decrease to the Company's assumed expected return on plan assets would have increased or decreased the pension credit by approximately \$22.1 million.
- Discount rate – A 1% decrease to the Company's assumed discount rate would have decreased the pension credit by approximately \$0.6 million. A 1% increase to the Company's assumed discount rate would have increased the pension credit by approximately \$18.0 million.

The Company's net pension credit includes an expected return on plan assets component, calculated using the expected return on plan assets assumption applied to a market-related value of plan assets. The market-related value of plan assets is determined using a five-year average market value method, which recognizes realized and unrealized appreciation and depreciation in market values over a five-year period. The value resulting from applying this method is adjusted, if necessary, such that it cannot be less than 80% or more than 120% of the market value of plan assets as of the relevant measurement date. As a result, year-to-year increases or decreases in the market-related value of plan assets impact the return on plan assets component of pension credit for the year.

At the end of each year, differences between the actual return on plan assets and the expected return on plan assets are combined with other differences in actual versus expected experience to form a net unamortized actuarial gain or loss in accumulated other comprehensive income. Only those net actuarial gains or losses in excess of the deferred realized and unrealized appreciation and depreciation are potentially subject to amortization.

The types of items that generate actuarial gains and losses that may be subject to amortization in net periodic pension (credit) cost include the following:

- Asset returns that are more or less than the expected return on plan assets for the year;
- Actual participant demographic experience different from assumed (retirements, terminations and deaths during the year);
- Actual salary increases different from assumed; and
- Any changes in assumptions that are made to better reflect anticipated experience of the plan or to reflect current market conditions on the measurement date (discount rate, longevity increases, changes in expected participant behavior and expected return on plan assets).

Amortization of the unrecognized actuarial gain or loss is included as a component of pension credit for a year if the magnitude of the net unamortized gain or loss in accumulated other comprehensive income exceeds 10% of the greater of the benefit obligation or the market-related value of assets (10% corridor). The amortization component is equal to that excess divided by the average remaining service period of active employees expected to receive benefits under the plan. At the end of 2018, the Company had no net unamortized actuarial gains in accumulated other comprehensive income subject to amortization outside the 10% corridor, and therefore, no amortized gain was included in the pension credit for 2019.

During 2019, there were significant pension asset gains offset by a decrease in the discount rate and the purchase of a group annuity contract that resulted in no net unamortized actuarial gains in accumulated other comprehensive income subject to amortization outside the 10% corridor, and therefore, no amortized gain amount was included in the pension credit for 2020.

During 2020, there were significant pension asset gains offset by a further decrease in the discount rate that resulted in net unamortized actuarial gains in accumulated other comprehensive income subject to amortization outside the 10% corridor, and therefore, an amortized gain of \$7.9 million was included in the pension credit for 2021.

During 2021, there were significant pension asset gains and an increase in the discount rate. The Company currently estimates that there will be net unamortized actuarial gains in accumulated other comprehensive income subject to amortization outside the 10% corridor, and therefore, an amortized gain amount of \$68.9 million is included in the estimated pension credit for 2022.

Overall, the Company estimates that it will record a net pension credit of approximately \$179 million in 2022.

Note 15 to the Company's Consolidated Financial Statements provides additional details surrounding pension costs and related assumptions.

Accounting for Income Taxes.

Valuation Allowances

Deferred income taxes arise from temporary differences between the tax and financial statement recognition of assets and liabilities. In evaluating its ability to recover deferred tax assets within the jurisdiction from which they arise, the Company considers all available positive and negative evidence, including scheduled reversals of deferred tax liabilities, projected future taxable income, tax planning strategies and recent financial operations. These assumptions require significant judgment about forecasts of future taxable income.

As of December 31, 2021, the Company had state income tax net operating loss carryforwards of \$1,026.1 million, which will expire at various future dates. Also at December 31, 2021, the Company had \$87.1 million of non-U.S. income tax loss carryforwards, of which \$44.2 million may be carried forward indefinitely; \$12.2 million of losses that, if unutilized, will expire in varying amounts through 2026; and \$30.7 million of losses that, if unutilized, will start to expire after 2026. At December 31, 2021, the Company has established approximately \$57.6 million in total valuation allowances, primarily against deferred state tax assets, net of U.S. Federal income taxes, and non-U.S. deferred tax assets, as the Company believes that it is more likely than not that the benefit from certain state and non-U.S. net operating loss carryforwards and other deferred tax assets will not be realized. The Company has established valuation allowances against state income tax benefits recognized, without considering potentially offsetting deferred tax liabilities established with respect to prepaid pension cost and goodwill. Prepaid pension cost and goodwill have not been considered a source of future taxable income for realizing deferred tax benefits recognized since these temporary differences are not likely to reverse in the foreseeable future. However, certain deferred state tax assets have an indefinite life. As a result, the Company has considered deferred tax liabilities for prepaid pension cost and goodwill as a source of future taxable income for realizing those deferred state tax assets. The valuation allowances established against state and non-U.S. income tax benefits recorded may increase or decrease within the next 12 months, based on operating results, the market value of investment holdings or business and tax planning strategies; as a result, the Company is unable to estimate the potential tax impact, given the uncertain operating and market environment. The Company will be monitoring future operating results and projected future operating results on a quarterly basis to determine whether the valuation allowances provided against state and non-U.S. deferred tax assets should be increased or decreased, as future circumstances warrant.

Recent Accounting Pronouncements. See Note 2 to the Company's Consolidated Financial Statements for a discussion of recent accounting pronouncements.

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Stockholders of Graham Holdings Company

Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated balance sheets of Graham Holdings Company and its subsidiaries (the "Company") as of December 31, 2021 and 2020, and the related consolidated statements of operations, of comprehensive income, of changes in common stockholders' equity and of cash flows for each of the three years in the period ended December 31, 2021, including the related notes (collectively referred to as the "consolidated financial statements"). We also have audited the Company's internal control over financial reporting as of December 31, 2021, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Company as of December 31, 2021 and 2020, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2021 in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2021, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the COSO.

Basis for Opinions

The Company's management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in Management's Report on Internal Control Over Financial Reporting appearing under Item 9A. Our responsibility is to express opinions on the Company's consolidated financial statements and on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Critical Audit Matters

The critical audit matter communicated below is a matter arising from the current period audit of the consolidated financial statements that was communicated or required to be communicated to the audit committee and that (i) relates to accounts or disclosures that are material to the consolidated financial statements and (ii) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Goodwill Impairment Assessments – Hoover and Dekko Reporting Units

As described in Notes 2 and 9 to the consolidated financial statements, the Company's consolidated goodwill balance was \$1,649.6 million as of December 31, 2021. As disclosed by management, the goodwill associated with the Hoover and Dekko reporting units was \$91.3 million and \$47.8 million, respectively as of December 31, 2021. Management reviews goodwill for possible impairment at least annually, as of November 30, or between annual tests if an event occurs or circumstances change that would more likely than not reduce the fair value of the reporting unit below its carrying value. An impairment charge is recognized for the amount by which the carrying value exceeds the reporting unit's fair value. Management reviews the carrying value of goodwill utilizing a discounted cash flow model. To determine the estimated fair value of the reporting unit, management makes assumptions regarding estimated future cash flows, discount rates, long-term growth rates, and market values.

The principal considerations for our determination that performing procedures relating to the goodwill impairment assessments of the Hoover and Dekko reporting units is a critical audit matter are (i) the significant judgment by management when determining the fair value of the reporting units; (ii) a high degree of auditor judgment, subjectivity, and effort in performing procedures and evaluating management's estimated future cash flows and significant assumptions related to revenues, profit margins, and the discount rate; and (iii) the audit effort involved the use of professionals with specialized skill and knowledge.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to management's goodwill impairment assessment, including controls over the valuation of the Company's reporting units. These procedures also included, among others, (i) testing management's process for determining the fair value of the Hoover and Dekko reporting units; (ii) evaluating the appropriateness of the discounted cash flow model; (iii) testing the completeness and accuracy of underlying data used in the model; and (iv) evaluating the reasonableness of significant assumptions related to revenues, profit margins, and the discount rate. Evaluating management's assumptions related to revenues and profit margins involved evaluating whether the assumptions used were reasonable considering (i) the current and past performance of the reporting unit; (ii) relevant industry forecasts and macroeconomic conditions; (iii) consistency with external market and industry data; (iv) management's historical forecasting accuracy; (v) consistency with evidence obtained in other areas of the audit; and (vi) the Company's objectives and strategies. Professionals with specialized skill and knowledge were used to assist in evaluating the appropriateness of the model and the reasonableness of the discount rate assumption.

/s/ PricewaterhouseCoopers LLP

Washington, District of Columbia
February 25, 2022

We have served as the Company's auditor since 1946.

GRAHAM HOLDINGS COMPANY
CONSOLIDATED STATEMENTS OF OPERATIONS

(in thousands, except per share amounts)	Year Ended December 31		
	2021	2020	2019
Operating Revenues			
Sales of services	\$ 2,089,800	\$ 2,056,228	\$ 2,111,035
Sales of goods	1,096,174	832,893	821,064
	3,185,974	2,889,121	2,932,099
Operating Costs and Expenses			
Cost of services sold (exclusive of items shown below)	1,243,384	1,239,241	1,315,928
Cost of goods sold (exclusive of items shown below)	871,137	672,865	632,318
Selling, general and administrative	831,853	715,401	717,659
Depreciation of property, plant and equipment	71,415	74,257	59,253
Amortization of intangible assets	57,870	56,780	53,243
Impairment of goodwill and other long-lived assets	32,940	30,170	9,152
	3,108,599	2,788,714	2,787,553
Income from Operations			
Equity in earnings of affiliates, net	77,375	100,407	144,546
Interest income	17,914	6,664	11,664
Interest expense	3,409	3,871	6,151
Non-operating pension and postretirement benefit income, net	(33,943)	(38,310)	(29,779)
Gain on marketable equity securities, net	109,230	59,315	162,798
Other income, net	243,088	60,787	98,668
	32,554	214,534	32,431
Income Before Income Taxes	449,627	407,268	426,479
Provision for Income Taxes	96,300	107,300	98,600
Net Income	353,327	299,968	327,879
Net (Income) Loss Attributable to Noncontrolling Interests	(1,252)	397	(24)
Net Income Attributable to Graham Holdings Company Common Stockholders	\$ 352,075	\$ 300,365	\$ 327,855
Per Share Information Attributable to Graham Holdings Company Common Stockholders			
Basic net income per common share	\$ 70.65	\$ 58.30	\$ 61.70
Basic average number of common shares outstanding	4,951	5,124	5,285
Diluted net income per common share	\$ 70.45	\$ 58.13	\$ 61.21
Diluted average number of common shares outstanding	4,965	5,139	5,327

See accompanying Notes to Consolidated Financial Statements.

GRAHAM HOLDINGS COMPANY
CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(in thousands)	Year Ended December 31		
	2021	2020	2019
Net Income	\$ 353,327	\$ 299,968	\$ 327,879
Other Comprehensive Income, Before Tax			
Foreign currency translation adjustments:			
Translation adjustments arising during the year	(16,052)	31,642	5,371
Adjustment for sale of a business with foreign operations	—	—	2,011
	(16,052)	31,642	7,382
Pension and other postretirement plans:			
Actuarial gain	519,595	365,164	231,104
Prior service cost	(2)	(69)	(5,725)
Amortization of net actuarial (gain) loss included in net income	(5,486)	1,219	(2,046)
Amortization of net prior service cost (credit) included in net income	3,170	2,680	(4,142)
Settlements included in net income	(120)	—	(91,676)
	517,157	368,994	127,515
Cash flow hedges gain (loss)	349	(1,282)	(1,344)
	501,454	399,354	133,553
Other Comprehensive Income, Before Tax	(133,380)	(99,335)	(34,087)
Other Comprehensive Income, Net of Tax	368,074	300,019	99,466
Comprehensive Income	721,401	599,987	427,345
Comprehensive (income) loss attributable to noncontrolling interests	(1,252)	397	(24)
Total Comprehensive Income Attributable to Graham Holdings Company	\$ 720,149	\$ 600,384	\$ 427,321

See accompanying Notes to Consolidated Financial Statements.

GRAHAM HOLDINGS COMPANY
CONSOLIDATED BALANCE SHEETS

	As of December 31	
(In thousands, except share amounts)	2021	2020
Assets		
Current Assets		
Cash and cash equivalents	\$ 145,886	\$ 413,991
Restricted cash	12,175	9,063
Investments in marketable equity securities and other investments	824,445	587,582
Accounts receivable, net	607,471	537,156
Inventories and contracts in progress	141,471	120,622
Prepaid expenses	81,741	75,523
Income taxes receivable	32,744	29,313
Other current assets	1,241	942
Total Current Assets	1,847,174	1,774,192
Property, Plant and Equipment, Net	468,126	378,286
Lease Right-of-Use Assets	437,969	462,560
Investments in Affiliates	155,444	155,777
Goodwill, Net	1,649,582	1,484,750
Indefinite-Lived Intangible Assets	142,180	120,437
Amortized Intangible Assets, Net	247,120	204,646
Prepaid Pension Cost	2,306,514	1,708,305
Deferred Income Taxes	7,900	8,396
Deferred Charges and Other Assets (includes \$782 and \$0 of restricted cash)	163,516	146,770
Total Assets	\$ 7,425,525	\$ 6,444,119
Liabilities and Equity		
Current Liabilities		
Accounts payable and accrued liabilities	\$ 583,629	\$ 520,236
Deferred revenue	358,720	331,021
Income taxes payable	4,585	5,140
Current portion of lease liabilities	77,655	86,797
Current portion of long-term debt	141,749	6,452
Total Current Liabilities	1,166,338	949,646
Accrued Compensation and Related Benefits	175,391	201,918
Other Liabilities	36,497	48,768
Deferred Income Taxes	676,706	521,274
Mandatorily Redeemable Noncontrolling Interest	13,661	9,240
Lease Liabilities	405,200	428,849
Long-Term Debt	525,752	506,103
Total Liabilities	2,999,545	2,665,798
Commitments and Contingencies (Note 18)	14,311	11,928
Redeemable Noncontrolling Interests	—	—
Preferred Stock, \$1 par value; 977,000 shares authorized, none issued	—	—
Common Stockholders' Equity		
Common stock		
Class A Common stock, \$1 par value; 7,000,000 shares authorized; 964,001 shares issued and outstanding	964	964
Class B Common stock, \$1 par value; 40,000,000 shares authorized; 19,035,999 shares issued; 3,942,065 and 4,018,832 shares outstanding	19,036	19,036
Capital in excess of par value	389,456	388,159
Retained earnings	7,126,761	6,804,822
Accumulated other comprehensive income, net of taxes		
Cumulative foreign currency translation adjustment	(6,298)	9,754
Unrealized gain on pensions and other postretirement plans	979,157	595,287
Cash flow hedges	(1,471)	(1,727)
Cost of 15,093,934 and 15,017,167 shares of Class B common stock held in treasury	(4,108,022)	(4,056,993)
Total Common Stockholders' Equity	4,399,583	3,759,302
Noncontrolling Interests	12,086	7,091
Total Equity	4,411,669	3,766,393
Total Liabilities and Equity	\$ 7,425,525	\$ 6,444,119

See accompanying Notes to Consolidated Financial Statements.

GRAHAM HOLDINGS COMPANY
CONSOLIDATED STATEMENTS OF CASH FLOWS

(In thousands)	Year Ended December 31		
	2021	2020	2019
Cash Flows from Operating Activities			
Net Income	\$ 353,327	\$ 299,968	\$ 327,879
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and goodwill and other long-lived asset impairment	162,225	161,207	121,648
Amortization of lease right-of-use asset	73,752	89,956	84,185
Net pension benefit, settlement, and special separation benefit expense	(91,898)	(41,573)	(137,909)
Gain on marketable equity securities and cost method investments, net	(254,844)	(57,669)	(103,748)
Credit loss expense and provision for other receivables	6,824	10,667	22,726
Stock-based compensation expense, net	5,659	6,348	6,278
Contingent consideration fair value measurements and accretion	(4,207)	2,895	—
Foreign exchange loss	179	2,153	1,070
Gain on disposition and write-downs of businesses, property, plant and equipment, investments and other assets, net	(8,554)	(214,926)	(28,346)
Equity in earnings of affiliates, net of distributions	4,917	6,592	(2,678)
Provision for deferred income taxes	65,046	14,377	69,751
Change in operating assets and liabilities:			
Accounts receivable	(59,292)	61,328	(53,602)
Inventories	4,551	3,786	(5,317)
Accounts payable and accrued liabilities	32,397	(32,714)	(47,069)
Deferred revenue	19,086	(25,728)	30,487
Income taxes receivable/payable	(8,689)	3,310	1,828
Lease liabilities	(85,147)	(91,478)	(88,597)
Other assets and other liabilities, net	(14,144)	11,735	(33,655)
Other	1,238	429	233
Net Cash Provided by Operating Activities	202,426	210,663	165,164
Cash Flows from Investing Activities			
Investments in certain businesses, net of cash acquired	(351,882)	(20,080)	(179,421)
Purchases of property, plant and equipment	(162,537)	(69,591)	(93,504)
Proceeds from sales of marketable equity securities	65,499	93,775	19,303
Purchases of marketable equity securities	(48,036)	(20,004)	(7,499)
Net proceeds from sales of businesses, property, plant and equipment and other assets	10,295	225,570	54,495
Investments in equity affiliates, cost method and other investments	(8,531)	(12,367)	(27,529)
Loans to related party	—	—	(3,500)
Other	557	2,068	920
Net Cash (Used in) Provided by Investing Activities	(494,635)	199,371	(236,735)
Cash Flows from Financing Activities			
Net borrowings under revolving credit facilities	134,696	76,241	—
Issuance of borrowings	70,184	2,084	41,250
Common shares repurchased	(55,683)	(161,829)	(2,103)
Repayments of borrowings	(49,645)	(83,360)	(8,702)
Deferred payments of acquisitions	(30,866)	(19,348)	(2,255)
Dividends paid	(30,136)	(29,970)	(29,553)
Net (repayments of) proceeds from vehicle floor plan payable	(10,563)	(14,160)	14,384
Issuance of noncontrolling interest	3,777	—	6,000
Purchase of noncontrolling interest	(3,508)	—	(550)
Proceeds from (repayments of) bank overdrafts	3,410	1,636	(185)
Proceeds from exercise of stock options	—	25,129	481
Other	(639)	(425)	(33)
Net Cash Provided by (Used in) Financing Activities	31,027	(204,002)	18,734
Effect of Currency Exchange Rate Change	(3,029)	2,978	2,766
Net (Decrease) Increase in Cash and Cash Equivalents and Restricted Cash	(264,211)	209,010	(50,071)
Cash and Cash Equivalents and Restricted Cash at Beginning of Year	423,054	214,044	264,115
Cash and Cash Equivalents and Restricted Cash at End of Year	\$ 158,843	\$ 423,054	\$ 214,044

Supplemental Cash Flow Information

Cash paid during the year for:

Income taxes	\$ 39,000	\$ 91,000	\$ 28,000
Interest	\$ 30,000	\$ 31,000	\$ 30,000

See accompanying Notes to Consolidated Financial Statements.

GRAHAM HOLDINGS COMPANY
CONSOLIDATED STATEMENTS OF CHANGES IN COMMON STOCKHOLDERS' EQUITY

(in thousands)	Class A Common Stock	Class B Common Stock	Capital in Excess of Par Value	Retained Earnings	Accumulated Other Comprehensive Income	Treasury Stock	Noncontrolling Interest	Total Equity	Redeemable Noncontrolling Interest
As of December 31, 2018	\$ 964	\$ 19,036	\$ 378,837	\$ 6,236,125	\$ 203,829	\$ (3,922,009)	\$ —	\$ 2,916,782	\$ 4,346
Net income for the year				327,879				327,879	
Issuance of noncontrolling interest							6,556	6,556	
Acquisition of redeemable noncontrolling interest								—	1,715
Net loss attributable to noncontrolling interest				152			(152)	—	
Acquisition of noncontrolling interest							1,153	1,153	
Net income attributable to redeemable noncontrolling interests				(176)				(176)	176
Change in redemption value of redeemable noncontrolling interests			32					32	(32)
Dividends paid on common stock				(29,553)				(29,553)	
Repurchase of Class B common stock						(2,103)		(2,103)	
Issuance of Class B common stock, net of restricted stock award forfeitures			(3,721)			3,960		239	
Amortization of unearned stock compensation and stock option expense			6,521					6,521	
Other comprehensive income, net of income taxes					99,466			99,466	
Purchase of redeemable noncontrolling interest								—	(550)
As of December 31, 2019	964	19,036	381,669	6,534,427	303,295	(3,920,152)	7,557	3,326,796	5,655
Net income for the year				299,968				299,968	
Net loss attributable to noncontrolling interest				386			(386)	—	
Acquisition of redeemable noncontrolling interest								—	6,005
Net loss attributable to redeemable noncontrolling interests				11				11	(11)
Change in redemption value of redeemable noncontrolling interests							273	273	279
Distribution to noncontrolling interest							(353)	(353)	
Dividends paid on common stock				(29,970)				(29,970)	
Repurchase of Class B common stock						(161,829)		(161,829)	
Issuance of Class B common stock, net of restricted stock award forfeitures			(411)			24,988		24,577	
Amortization of unearned stock compensation and stock option expense			6,901					6,901	
Other comprehensive income, net of income taxes					300,019			300,019	
As of December 31, 2020	964	19,036	388,159	6,804,822	603,314	(4,056,993)	7,091	3,766,393	11,928
Net income for the year				353,327				353,327	
Noncontrolling interest capital contribution							3,350	3,350	
Net income attributable to noncontrolling interests				(1,943)			1,943	—	
Acquisition of redeemable noncontrolling interest								—	6,617
Net loss attributable to redeemable noncontrolling interests				691				691	(691)
Change in redemption value of redeemable noncontrolling interests			292				257	549	(35)
Distribution to noncontrolling interest							(555)	(555)	
Dividends paid on common stock				(30,136)				(30,136)	
Repurchase of Class B common stock						(55,683)		(55,683)	
Issuance of Class B common stock, net of restricted stock award forfeitures			(5,593)			4,654		(939)	
Amortization of unearned stock compensation and stock option expense			6,598					6,598	
Other comprehensive income, net of income taxes					368,074			368,074	
Purchase of redeemable noncontrolling interest								—	(3,508)
As of December 31, 2021	\$ 964	\$ 19,036	\$ 389,456	\$ 7,126,761	\$ 971,388	\$ (4,108,022)	\$ 12,086	\$ 4,411,669	\$ 14,311

See accompanying Notes to Consolidated Financial Statements.

GRAHAM HOLDINGS COMPANY

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. ORGANIZATION AND NATURE OF OPERATIONS

Graham Holdings Company (the Company), is a diversified education and media company. The Company's Kaplan subsidiary provides a wide variety of educational services, both domestically and outside the United States (U.S.). The Company's media operations comprise the ownership and operation of seven television broadcasting stations.

Education—Kaplan, Inc. provides an extensive range of educational services for students and professionals. Kaplan's various businesses comprise three categories: Kaplan International, Higher Education (KHE) and Supplemental Education.

Media—The Company's diversified media operations comprise television broadcasting, several websites and print publications, podcast content and a marketing solutions provider.

Television broadcasting. As of December 31, 2021, the Company owned seven television stations located in Houston, TX; Detroit, MI; Orlando, FL; San Antonio, TX; Roanoke, VA; and two stations in Jacksonville, FL. All stations are network-affiliated except for WJXT in Jacksonville, FL.

Manufacturing—The Company's manufacturing businesses include Hoover, Dekko, Joyce/Dayton and Forney.

Other—The Company's other business operations include automotive dealerships, restaurants and entertainment venues, consumer internet brands, custom framing services and home health and hospice services.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Presentation and Principles of Consolidation. The accompanying Consolidated Financial Statements have been prepared in accordance with generally accepted accounting principles (GAAP) in the U.S. and include the assets, liabilities, results of operations and cash flows of the Company and its majority-owned and controlled subsidiaries. All significant intercompany accounts and transactions have been eliminated in consolidation.

Use of Estimates. The preparation of financial statements in conformity with GAAP requires management to make estimates and judgments that affect the amounts reported in the financial statements. Management bases its estimates and assumptions on historical experience and on various other factors that are believed to be reasonable under the circumstances. Due to the inherent uncertainty involved in making estimates, actual results reported in future periods may be affected by changes in those estimates. On an ongoing basis, the Company evaluates its estimates and assumptions.

The Company assessed certain accounting matters that generally require consideration of forecasted financial information, in context with the information reasonably available to the Company and the unknown future impacts of the novel coronavirus (COVID-19) pandemic as of December 31, 2021 and through the date of this filing. The accounting matters assessed included, but were not limited to, the Company's carrying value of goodwill and other long-lived assets, allowance for doubtful accounts, inventory valuation and related reserves, fair value of financial assets, valuation allowances for tax assets and revenue recognition. Other than the goodwill and other long-lived asset impairment charges (see Notes 9, 12 and 19), there were no other impacts to the Company's consolidated financial statements as of and for the year ended December 31, 2021 resulting from our assessments. The Company's future assessment of the magnitude and duration of COVID-19, as well as other factors, could result in material impacts to the Company's consolidated financial statements in future reporting periods.

Business Combinations. The purchase price of an acquisition is allocated to the assets acquired, including intangible assets, and liabilities assumed, based on their respective fair values at the acquisition date. Acquisition-related costs are expensed as incurred. The excess of the cost of an acquired entity over the net of the amounts assigned to the assets acquired and liabilities assumed is recognized as goodwill. The net assets and results of operations of an acquired entity are included in the Company's Consolidated Financial Statements from the acquisition date.

Cash and Cash Equivalents. Cash and cash equivalents consist of cash on hand, short-term investments with original maturities of three months or less and investments in money market funds with weighted average maturities of three months or less.

Restricted Cash. Restricted cash represents amounts required to be held by non-U.S. higher education institutions for prepaid tuition pursuant to foreign government regulations. These regulations stipulate that the Company has a fiduciary responsibility to segregate certain funds to ensure these funds are only used for the benefit of eligible students.

Concentration of Credit Risk. Cash and cash equivalents are maintained with several financial institutions domestically and internationally. Deposits held with banks may exceed the amount of insurance provided on such deposits. Generally, these deposits may be redeemed upon demand and are maintained with financial institutions with investment-grade credit ratings. The Company routinely assesses the financial strength of significant customers, and this assessment, combined with the large number and geographical diversity of its customers, limits the Company's concentration of risk with respect to receivables from contracts with customers.

Allowance for Credit Losses. Accounts receivable have been reduced by an allowance that reflects the current expected credit losses associated with the receivables. The current expected credit losses are estimated based on historical write-offs, current macroeconomic conditions and reasonable and supportable forecasts of future economic conditions. Reserves are also established against specific receivables based on aging category, historical collection experience and management's evaluation of the financial condition of the customer. The Company generally considers an account past due or delinquent when a student or customer misses a scheduled payment. The Company writes off accounts receivable balances deemed uncollectible against the allowance for credit losses following the passage of a certain period of time, or generally when the account is turned over for collection to an outside collection agency.

Investments in Equity Securities. The Company measures its investments in equity securities at fair value with changes in fair value recognized in earnings. The Company elected the measurement alternative to measure cost method investments that do not have readily determinable fair value at cost less impairment, adjusted by observable price changes with any fair value changes recognized in earnings. If the fair value of a cost method investment declines below its cost basis and the decline is considered other than temporary, the Company will record a write-down, which is included in earnings. The Company uses the average cost method to determine the basis of the securities sold.

Fair Value Measurements. Fair value measurements are determined based on the assumptions that a market participant would use in pricing an asset or liability based on a three-tiered hierarchy that draws a distinction between market participant assumptions based on (i) observable inputs, such as quoted prices in active markets (Level 1); (ii) inputs other than quoted prices in active markets that are observable either directly or indirectly (Level 2); and (iii) unobservable inputs that require the Company to use present value and other valuation techniques in the determination of fair value (Level 3). Financial assets and liabilities are classified in their entirety based on the lowest level of input that is significant to the fair value measure. The Company's assessment of the significance of a particular input to the fair value measurements requires judgment and may affect the valuation of the assets and liabilities being measured and their placement within the fair value hierarchy.

For assets that are measured using quoted prices in active markets, the total fair value is the published market price per unit multiplied by the number of units held, without consideration of transaction costs. Assets and liabilities that are measured using significant other observable inputs are primarily valued by reference to quoted prices of similar assets or liabilities in active markets, adjusted for any terms specific to that asset or liability.

The Company measures certain assets—including goodwill; intangible assets; property, plant and equipment; lease right-of-use assets; cost and equity-method investments—at fair value on a nonrecurring basis when they are deemed to be impaired. The fair value of these assets is determined with valuation techniques using the best information available and may include quoted market prices, market comparables and discounted cash flow models.

Fair Value of Financial Instruments. The carrying amounts reported in the Company's Consolidated Financial Statements for cash and cash equivalents, restricted cash, accounts receivable, accounts payable and accrued liabilities, the current portion of deferred revenue and the current portion of debt approximate fair value because of the short-term nature of these financial instruments. The fair value of long-term debt is determined based on a number of observable inputs, including the current market activity of the Company's publicly traded notes, trends in investor demands and market values of comparable publicly traded debt. The fair value of interest rate hedges are determined based on a number of observable inputs, including time to maturity and market interest rates.

Inventories and Contracts in Progress. Inventories and contracts in progress are stated at the lower of cost or net realizable values and are based on the first-in, first-out (FIFO) method. Inventory costs include direct material, direct and indirect labor, and applicable manufacturing overhead. The Company allocates manufacturing overhead based on normal production capacity and recognizes unabsorbed manufacturing costs in earnings. The provision for excess and obsolete inventory is based on management's evaluation of inventories on hand relative to historical usage, estimated future usage and technological developments.

Vehicle inventory is based on the specific identification method. The cost of new and used vehicle inventories includes the cost of any equipment added, reconditioning and transportation. In certain instances, vehicle manufacturers provide incentives which are reflected as a reduction in the carrying value of each vehicle purchased.

Property, Plant and Equipment. Property, plant and equipment is recorded at cost and includes interest capitalized in connection with major long-term construction projects. Replacements and major improvements are

capitalized; maintenance and repairs are expensed as incurred. Depreciation is calculated using the straight-line method over the estimated useful lives of the property, plant and equipment: 3 to 20 years for machinery and equipment; 20 to 50 years for buildings. The costs of leasehold improvements are amortized over the lesser of their useful lives or the terms of the respective leases.

Evaluation of Long-Lived Assets. The recoverability of long-lived assets and finite-lived intangible assets is assessed whenever adverse events or changes in circumstances indicate that recorded values may not be recoverable. A long-lived asset is considered to not be recoverable when the undiscounted estimated future cash flows are less than the asset's recorded value. An impairment charge is measured based on estimated fair market value, determined primarily using estimated future cash flows on a discounted basis. Losses on long-lived assets to be disposed of are determined in a similar manner, but the fair market value would be reduced for estimated costs to dispose.

Goodwill and Other Intangible Assets. Goodwill is the excess of purchase price over the fair value of identified net assets of businesses acquired. The Company's intangible assets with an indefinite life are principally from trade names and trademarks, franchise agreements and Federal Communications Commission (FCC) licenses. Amortized intangible assets are primarily student and customer relationships and trade names and trademarks, with amortization periods up to 15 years. Costs associated with renewing or extending intangible assets are insignificant and expensed as incurred.

The Company reviews goodwill and indefinite-lived intangible assets at least annually, as of November 30, for possible impairment. Goodwill and indefinite-lived intangible assets are reviewed for possible impairment between annual tests if an event occurs or circumstances change that would more likely than not reduce the fair value of the reporting unit or indefinite-lived intangible asset below its carrying value. The Company tests its goodwill at the reporting unit level, which is an operating segment or one level below an operating segment. The Company initially assesses qualitative factors to determine if it is necessary to perform the goodwill or indefinite-lived intangible asset quantitative impairment review. The Company reviews the goodwill and indefinite-lived assets for impairment using the quantitative process if, based on its assessment of the qualitative factors, it determines that it is more likely than not that the fair value of a reporting unit or indefinite-lived intangible asset is less than its carrying value, or if it decides to bypass the qualitative assessment. The Company reviews the carrying value of goodwill and indefinite-lived intangible assets utilizing a discounted cash flow model, and, where appropriate, a market value approach is also utilized to supplement the discounted cash flow model. The Company makes assumptions regarding estimated future cash flows, discount rates, long-term growth rates and market values to determine the estimated fair value of each reporting unit and indefinite-lived intangible asset. If these estimates or related assumptions change in the future, the Company may be required to record impairment charges.

Investments in Affiliates. The Company uses the equity method of accounting for its investments in and earnings or losses of affiliates that it does not control, but over which it exerts significant influence. Significant influence is generally deemed to exist if the Company has an ownership interest in the voting stock of an investee between 20% and 50%. The Company also uses the equity method of accounting for its investments in a partnership or limited liability company with specific ownership accounts, if the Company has an ownership interest of 3% or more. The Company considers whether the fair values of any of its equity method investments have declined below their carrying values whenever adverse events or changes in circumstances indicate that recorded values may not be recoverable. If the Company considered any such decline to be other than temporary (based on various factors, including historical financial results, product development activities and the overall health of the affiliate's industry), a write-down would be recorded to estimated fair value.

Revenue Recognition. The Company identifies a contract for revenue recognition when there is approval and commitment from both parties, the rights of the parties and payment terms are identified, the contract has commercial substance and the collectability of consideration is probable. The Company evaluates each contract to determine the number of distinct performance obligations in the contract, which requires the use of judgment.

Education Revenue. Education revenue is primarily derived from postsecondary education and supplementary education services provided both domestically and abroad. Generally, tuition and other fees are paid upfront and recorded in deferred revenue in advance of the date when education services are provided to the student. In some instances, installment billing is available to students, which reduces the amount of cash consideration received in advance of performing the service. The contractual terms and conditions associated with installment billing indicate that the student is liable for the total contract price; therefore, mitigating the Company's exposure to losses associated with nonpayment. The Company determined the installment billing does not represent a significant financing component.

Kaplan International. Kaplan International provides higher education, professional education, and test preparation services and materials to students primarily in the United Kingdom (U.K.), Singapore, and Australia. Some Kaplan International contracts consist of one performance obligation that is a combination of indistinct promises to the student, while other Kaplan International contracts include multiple performance obligations as the promises in the

contract are capable of being both distinct and distinct within the context of the contract. One Kaplan International business offers an option whereby students receive future services at a discount that is accounted for as a material right.

The transaction price is stated in the contract and known at the time of contract inception; therefore, no variable consideration exists. Revenue is allocated to each performance obligation based on its standalone selling price. Any discounts within the contract are allocated across all performance obligations unless observable evidence exists that the discount relates to a specific performance obligation or obligations in the contract. Kaplan International generally determines standalone selling prices based on prices charged to students.

Revenue is recognized ratably over the instruction period or access period for higher education, professional education and test preparation services. Kaplan International generally uses the time elapsed method, an input measure, as it best depicts the simultaneous consumption and delivery of these services. Course materials determined to be a separate performance obligation are recognized at the point in time when control transfers to the student, generally when the products are delivered to the student.

One Kaplan International business has a contract with a customer consisting of two performance obligations which consisted entirely of variable consideration at contract inception. The Company allocates revenue to each performance obligation based on the expected cost plus a margin. The margin was determined by a market assessment. Revenue is recognized over time, using an input method, as the customer simultaneously benefits from the services as delivery occurs. The Company records a contract asset associated with this Kaplan International contract as the right to revenue is dependent on something other than the passage of time.

Higher Education (KHE). KHE primarily provides non-academic operations support services to Purdue University Global (Purdue Global) pursuant to a Transition and Operations Support Agreement (TOSA). This contract has a 30-year term and consists of one performance obligation, which represents a series of daily promises to provide support services to Purdue Global. The transaction price is entirely made up of variable consideration related to the reimbursement of KHE support costs and the KHE fee. The TOSA outlines a payment structure, which dictates how cash will be distributed at the end of Purdue Global's fiscal year, which is the 30th of June. The collectability of the KHE support costs and KHE fee is entirely dependent on the availability of cash at the end of the fiscal year. This variable consideration is constrained based on fiscal year forecasts prepared for Purdue Global. The forecasts are updated throughout the fiscal year until the uncertainty is ultimately resolved, which is at the end of each Purdue Global fiscal year. As KHE's performance obligation is made up of a series, the variable consideration is allocated to the distinct service period to which it relates, which is the Purdue Global fiscal year.

Support services revenue is recognized over time based on the expenses incurred to date and the percentage of expected reimbursement. KHE fee revenue is also recognized over time based on the amount of Purdue Global revenue recognized to date and the percentage of fee expected to be collected for the fiscal year. The Company used these input measures as Purdue Global simultaneously receives and consumes the benefits of the services provided by KHE.

Kaplan Supplemental Education. Supplemental Education offers test preparation services and materials to students, as well as professional training and exam preparation for professional certifications and licensures to students. Generally, Supplemental Education contracts consist of multiple performance obligations as promises for these services are distinct within the context of the contract. The transaction price is stated in the contract and known at the time of contract inception, therefore no variable consideration exists. Revenue is allocated to each performance obligation based on its standalone selling price. Supplemental Education generally determines standalone selling prices based on the prices charged to students and professionals. Any discounts within the contract are allocated across all performance obligations unless observable evidence exists that the discount relates to a specific performance obligation in the contract.

Supplemental Education services revenue is recognized ratably over the period of access to the education materials. An estimate of the average access period is developed for each course, and this estimate is evaluated on an ongoing basis and adjusted as necessary. The time elapsed method, an input measure, is used as it best depicts the simultaneous consumption and availability of access to the services. Revenue associated with distinct course materials is recognized at the point in time when control transfers to the student, generally when products are delivered to the student.

Supplemental Education offers a guarantee on certain courses that gives students the ability to repeat a course if they are not satisfied with their exam score. The Company accounts for this guarantee as a separate performance obligation.

Television Broadcasting Revenue. Television broadcasting revenue at Graham Media Group (GMG) is primarily comprised of television and internet advertising revenue, and retransmission revenue.

Television Advertising Revenue. GMG accounts for the series of advertisements included in television advertising contracts as one performance obligation and recognizes advertising revenue over time. The Company elected the right to invoice practical expedient, an output method, as GMG has the right to consideration that equals the value provided to the customer for advertisements delivered to date. As a result of the election to use the right to invoice practical expedient, GMG does not determine the transaction price or allocate any variable consideration at contract inception. Rather, GMG recognizes revenue commensurate with the amount to which GMG has the right to invoice the customer. Payment is typically received in arrears within 60 days of revenue recognition.

Retransmission Revenue. Retransmission revenue represents compensation paid by cable, satellite and other multichannel video programming distributors (MVPDs) to retransmit GMG's stations' broadcasts in their designated market areas. The retransmission rights granted to MVPDs are accounted for as a license of functional intellectual property as the retransmitted broadcast provides significant standalone functionality. As such, each retransmission contract with an MVPD includes one performance obligation for each station's retransmission license. GMG recognizes revenue using the usage-based royalty method, in which revenue is recognized in the month the broadcast is retransmitted based on the number of MVPD subscribers and the applicable per user rate identified in the retransmission contract. Payment is typically received in arrears within 60 days of revenue recognition.

Manufacturing Revenue. Manufacturing revenue consists primarily of product sales generated by four businesses: Hoover, Dekko, Joyce, and Forney. The Company has determined that each item ordered by the customer is a distinct performance obligation as it has standalone value and is distinct within the context of the contract. For arrangements with multiple performance obligations, the Company initially allocates the transaction price to each obligation based on its standalone selling price, which is the retail price charged to customers. Any discounts within the contract are allocated across all performance obligations unless observable evidence exists that the discount relates to a specific performance obligation or obligations in the contract.

The Company sells some products and services with a right of return. This right of return constitutes variable consideration and is constrained from revenue recognition on a portfolio basis, using the expected value method until the refund period expires.

The Company recognizes revenue when or as control transfers to the customer. Some manufacturing revenue is recognized ratably over the manufacturing period, if the product created for the customer does not have an alternative use to the Company and the Company has an enforceable right to payment for performance completed to date. The determination of the method by which the Company measures its progress toward the satisfaction of its performance obligations requires judgment. The Company measures its progress for these products using the units delivered method, an output measure. These arrangements represented 21%, 23% and 28% of the manufacturing revenue recognized for the years ended December 31, 2021, 2020 and 2019, respectively.

Other manufacturing revenue is recognized at the point in time when control transfers to the customer, generally when the products are shipped. Some customers have a bill and hold arrangement with the Company. Revenue for bill and hold arrangements is recognized when control transfers to the customer, even though the customer does not have physical possession of the goods. Control transfers when the bill-and-hold arrangement has been requested from the customer, the product is identified as belonging to the customer and is ready for physical transfer, and the product cannot be directed for use by anyone but the customer.

Payment terms and conditions vary by contract, although terms generally include a requirement of payment within 90 days of delivery.

The Company evaluated the terms of the warranties and guarantees offered by its manufacturing businesses and determined that these should not be accounted for as a separate performance obligation as a distinct service is not identified.

Healthcare Revenue. The Company contracts with patients to provide home health or hospice services. Payment is typically received from third-party payors such as Medicare, Medicaid, and private insurers. The payor is a third party to the contract that stipulates the transaction price of the contract. The Company identifies the patient as the party who benefits from its healthcare services and as such, the patient is its customer.

The Centers for Medicare and Medicaid Services released a revised reimbursement structure under the Patient Driven Groupings Model (PDGM) for Medicare claims for home healthcare services effective for new and modified revenue contracts beginning on or after January 1, 2020. Home health services contracts generally have one performance obligation to provide home health services to patients. Under the PDGM model, the Company recognizes revenue using the right to invoice practical expedient, an output method, as the contractual right to revenue corresponds directly with the transfer of services to the patient. Given the election of the practical expedient, the Company does not determine the transaction price or allocate any variable consideration at contract inception. Rather, the Company recognizes revenue commensurate with the amount to which it has the right to invoice the customer, which is a function of the average length of stay within each of the two 30 day payment

periods. Payment is typically received from Medicare within 30 days after a claim is filed. Medicare is the most common third-party payor for home health services.

Home health revenue contracts may be modified to account for changes in the patient's plan of care. The Company identifies contract modifications when the modification changes the existing enforceable rights and obligations. As modifications to the plan of care modify the original performance obligation, the Company accounts for the contract modification as an adjustment to revenue (either as an increase in or a reduction of revenue) on a cumulative catch-up basis.

Hospice services contracts generally have one performance obligation to provide healthcare services to patients. The transaction price reflects the amount of revenue the Company expects to receive in exchange for providing these services. As the transaction price for healthcare services is known at the time of contract inception, no variable consideration exists. Hospice service revenue is recognized ratably over the period of care. The Company generally uses the time-elapsed method, an input measure as it best depicts the simultaneous delivery and consumption of healthcare services. Payment is received from third-party payors for hospice services within 60 days after a claim is filed, or in some cases in two installments, one during the contract and one after the services have been provided. Medicare is the most common third-party payor.

Other Revenue. The Company recognizes revenue associated with management services it provides to its affiliates. The Company accounts for the management services provided as one performance obligation and recognizes revenue over time as the services are delivered. The Company uses the right to invoice practical expedient, an output method, as the Company's right to revenue corresponds directly with the value delivered to the affiliate. As a result of the election to use the right to invoice practical expedient, the Company does not determine the transaction price or allocate any variable consideration at contract inception. Rather, the Company recognizes revenue commensurate with the amount to which it has the right to invoice the affiliate, which is based on contractually identified percentages. Payment is received monthly in arrears.

Automotive Revenue. The automotive subsidiary generates revenue primarily through the sale of new and used vehicles, the arrangement of vehicle financing, insurance and other service contracts (F&I revenue) and the performance of vehicle repair and maintenance services.

New and used vehicle revenue contracts generally contain one performance obligation to deliver the vehicle to the customer in exchange for the stated contract consideration. Revenue is recognized at the point in time when control of the vehicle passes to the customer. F&I revenue is recognized at the point in time when the agreement between the customer and financing, insurance or service provider is executed. As the automotive subsidiary acts as an agent in these F&I revenue transactions, revenue is recognized net of any financing, insurance and service provider costs. Repair and maintenance services revenue is recognized over time, as the service is performed.

Other Revenue. Restaurant Revenue. Restaurant revenues consists of sales generated by Clyde's Restaurant Group (CRG). Food and beverage revenue, net of discounts and taxes, is recognized at the point in time when it is delivered to the customer. Proceeds from the sale of gift cards are recorded as deferred revenue and recognized as revenue upon redemption by the customer.

Custom Framing Services Revenue. Framebridge sells custom framing solutions to customers. Custom framing services revenue, net of discounts and taxes, is recognized when the products are delivered to the customer. Proceeds from the sale of gift cards are recorded as deferred revenue and recognized as revenue upon redemption by the customer.

Code3 Revenue. Code3 generates media management revenue in exchange for providing social media marketing solutions to its clients. The Company determined that Code3 contracts generally have one performance obligation made up of a series of promises to manage the client's media spend on advertising platforms for the duration of the contract period.

Code3 recognizes revenue, net of media acquisition costs, over time as media management services are delivered to the customer. Generally, Code3 recognizes revenue using the right to invoice practical expedient, an output method, as Code3's right to revenue corresponds directly with the value delivered to its customer. As a result of the election to use the right to invoice practical expedient, Code3 does not determine the transaction price or allocate any variable consideration at contract inception. Rather, Code3 recognizes revenue commensurate with the amount to which it has the right to invoice the customer which is a function of the cost of social media placement plus a management fee, less any applicable discounts. Payment is typically received within 100 days of revenue recognition.

Code3 evaluates whether it is the principal (i.e. presents revenue on a gross basis) or agent (i.e. presents revenue on a net basis) in its contracts. Code3 presents revenue for media management services, net of media acquisition costs, as an agent, as Code3 does not control the media before placement on social media platforms.

Leaf Group Revenue. Leaf Group (Leaf) generates revenue through its media and marketplace businesses. Media revenue is primarily derived from advertisements displayed on Leaf's online media properties. Revenue is recognized over time as the performance obligation is delivered. Revenue is generally recognized based on an output measure including impressions delivered, cost per click or time-based advertisements.

Marketplace revenue is primarily derived from the sale of products from Society6 and Saatchi Art Group. Each product ordered generally is accounted for as an individual performance obligation. Product revenue, net of discounts and taxes, is recognized when control of the promised good is transferred to the customer.

Other Revenue. Other revenue primarily includes advertising, circulation and subscription revenue from Slate, Megaphone, Decile, Pinna and Foreign Policy. The Company accounts for other advertising revenues consistently with the advertising revenue streams addressed above. Circulation revenue consists of fees that provide customers access to online and print publications. The Company recognizes circulation and subscription revenue ratably over the subscription period beginning on the date that the publication or product is made available to the customer. Circulation revenue contracts are generally annual or monthly subscription contracts that are paid in advance of delivery of performance obligations.

Revenue Policy Elections. The Company has elected to account for shipping and handling activities that occur after the customer has obtained control of the good as a fulfillment cost rather than as an additional promised service. Therefore, revenue for these performance obligations is recognized when control of the good transfers to the customer, which is when the good is ready for shipment. The Company accrues the related shipping and handling costs over the period when revenue is recognized.

The Company has elected to exclude from the measurement of the transaction price all taxes assessed by a governmental authority that are both imposed on and concurrent with a specific revenue-producing transaction and collected by the entity from a customer.

Revenue Practical Expedients. The Company does not disclose the value of unsatisfied performance obligations for (i) contracts with an original expected length of one year or less, (ii) contracts for which the amount of revenue recognized is based on the amount to which the Company has the right to invoice the customer for services performed, (iii) contracts for which the consideration received is a usage-based royalty promised in exchange for a license of intellectual property and (iv) contracts for which variable consideration is allocated entirely to a wholly unsatisfied promise to transfer a distinct good or service that forms part of a single performance obligation.

Costs to Obtain a Contract. The Company incurs costs to obtain a contract that are both incremental and expected to be recovered as the costs would not have been incurred if the contract was not obtained and the revenue from the contract exceeds the associated cost. The revenue guidance provides a practical expedient to expense sales commissions as incurred in instances where the amortization period is one year or less. The amortization period is defined in the guidance as the contract term, inclusive of any expected contract renewal periods. The Company has elected to apply this practical expedient to all contracts except for contracts in its education division. In the education division, costs to obtain a contract are amortized over the applicable amortization period except for cases in which commissions paid on initial contracts and renewals are commensurate. The Company amortizes these costs to obtain a contract on a straight-line basis over the amortization period. These expenses are included as cost of services or products in the Company's Consolidated Statements of Operations.

Leases. The Company has operating leases for substantially all of its educational facilities, corporate offices and other facilities used in conducting its business, as well as certain equipment. The Company determines if an arrangement is a lease at inception. Operating leases are included in lease right-of-use (ROU) assets, current portion of lease liabilities, and lease liabilities on the Company's Consolidated Balance Sheets. ROU assets represent the Company's right to use an underlying asset for the lease term and lease liabilities represent the Company's obligation to make lease payments arising from the lease. Operating lease ROU assets and liabilities are recognized at the lease commencement date based on the present value of lease payments over the lease term. ROU assets also include any initial direct costs, prepaid lease payments and lease incentives received, when applicable. As most of the Company's leases do not provide an implicit rate, the Company used its incremental borrowing rate based on the information available at the lease commencement date in determining the present value of lease payments. The Company used the incremental borrowing rate on December 31, 2018 for operating leases that commenced prior to that date.

The Company's lease terms may include options to extend or terminate the lease by one to 10 years or more when it is reasonably certain that the option will be exercised. Leases with a term of twelve months or less are not recorded on the balance sheet; however, lease expense for these leases is recognized on a straight-line basis. The Company has elected the practical expedient to not separate lease components from nonlease components. As such, lease expense includes these nonlease components, when applicable. Fixed lease expense is recognized on a straight-line basis over the lease term. Variable lease expense is recognized when incurred. The Company's lease

agreements do not contain any significant residual value guarantees or restrictive covenants. In some instances, the Company subleases its leased real estate facilities to third parties.

As of December 31, 2021 and 2020, the Company had \$4.0 million and \$5.9 million, respectively, in net, property, plant and equipment and current finance lease liabilities related to service loaner vehicles at the automotive subsidiary. Service loaner vehicles are generally purchased from the lessor within six months of contract commencement and upon purchase the vehicles are placed into used vehicle inventory at cost. The Company does not have any other significant financing leases.

Pensions and Other Postretirement Benefits. The Company maintains various pension and incentive savings plans. Most of the Company's employees are covered by these plans. The Company also provides healthcare and life insurance benefits to certain retired employees. These employees become eligible for benefits after meeting age and service requirements.

The Company recognizes the overfunded or underfunded status of a defined benefit postretirement plan as an asset or liability in its Consolidated Balance Sheets and recognizes changes in that funded status in the year in which the changes occur through comprehensive income. The Company measures changes in the funded status of its plans using the projected unit credit method and several actuarial assumptions, the most significant of which are the discount rate, the expected return on plan assets and the rate of compensation increase. The Company uses a measurement date of December 31 for its pension and other postretirement benefit plans.

Self-Insurance. The Company uses a combination of insurance and self-insurance for a number of risks, including claims related to employee healthcare and dental care, disability benefits, workers' compensation, general liability, property damage and business interruption. Liabilities associated with these plans are estimated based on, among other things, the Company's historical claims experience, severity factors and other actuarial assumptions. The expected loss accruals are based on estimates, and, while the Company believes that the amounts accrued are adequate, the ultimate loss may differ from the amounts provided.

Income Taxes. The Company accounts for income taxes under the asset and liability method, which requires the recognition of deferred tax assets and liabilities for the expected future tax consequences of events that have been included in the financial statements. Under this method, deferred tax assets and liabilities are determined based on the differences between the financial statements and tax basis of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to reverse. The effect of a change in tax rates on deferred tax assets and liabilities is recognized in income in the period that includes the enactment date.

The Company records net deferred tax assets to the extent that it believes these assets will more likely than not be realized. In making such determination, the Company considers all available positive and negative evidence, including future reversals of existing taxable temporary differences, projected future taxable income, tax planning strategies and recent financial operations; this evaluation is made on an ongoing basis. In the event the Company were to determine that it was able to realize net deferred income tax assets in the future in excess of their net recorded amount, the Company would record an adjustment to the valuation allowance, which would reduce the provision for income taxes.

The Company recognizes a tax benefit from an uncertain tax position when it is more likely than not that the position will be sustained upon examination, including resolutions of any related appeals or litigation processes, based on the technical merits. The Company records a liability for the difference between the benefit recognized and measured for financial statement purposes and the tax position taken or expected to be taken on the Company's tax return. Changes in the estimate are recorded in the period in which such determination is made.

Foreign Currency Translation. Income and expense accounts of the Company's non-U.S. operations where the local currency is the functional currency are translated into U.S. dollars using the current rate method, whereby operating results are converted at the average rate of exchange for the period, and assets and liabilities are converted at the closing rates on the period end date. Gains and losses on translation of these accounts are accumulated and reported as a separate component of equity and other comprehensive income. Gains and losses on foreign currency transactions, including foreign currency denominated intercompany loans on entities with a functional currency in U.S. dollars, are recognized in the Consolidated Statements of Operations.

Equity-Based Compensation. The Company measures compensation expense for awards settled in shares based on the grant date fair value of the award. The Company measures compensation expense for awards settled in cash, or that may be settled in cash, based on the fair value at each reporting date. The Company recognizes the expense over the requisite service period, which is generally the vesting period of the award. Stock award forfeitures are accounted for as they occur.

Earnings Per Share. Basic earnings per share is calculated under the two-class method. The Company treats restricted stock as a participating security due to its nonforfeitable right to dividends. Under the two-class method, the Company allocates to the participating securities their portion of dividends declared and undistributed earnings

to the extent the participating securities may share in the earnings as if all earnings for the period had been distributed. Basic earnings per share is calculated by dividing the income available to common stockholders by the weighted average number of common shares outstanding during the period. Diluted earnings per share is calculated similarly except that the weighted average number of common shares outstanding during the period includes the dilutive effect of the assumed exercise of options and restricted stock issuable under the Company's stock plans. The dilutive effect of potentially dilutive securities is reflected in diluted earnings per share by application of the treasury stock method.

Mandatorily Redeemable Noncontrolling Interest. The Company's mandatorily redeemable noncontrolling interest represents the noncontrolling interest in GHC One LLC (GHC One), a subsidiary of Graham Healthcare Group (GHG). The minority shareholders must liquidate their 5% interest in GHC One upon its required liquidation in 2026. This interest is reported as a noncurrent liability at December 31, 2021 and 2020 in the Consolidated Balance Sheets. The Company presents this liability at fair value, which is computed quarterly at the current redemption value. Changes in the redemption value is recorded as interest expense or income in the Company's Consolidated Statement of Operations.

Redeemable Noncontrolling Interest. The Company's redeemable noncontrolling interest represents the noncontrolling interest in CSI Pharmacy Holding Company, LLC (CSI), which is 75% owned, Framebridge, which is 93.4% owned, and Weiss, which is 50.1% owned. CSI's minority shareholders may put up to 50% of their shares to the Company. The first put period begins in 2022. A second put period for another tranche of shares begins in 2024. The minority shareholder of Framebridge has an option to put 20% of the shares to the Company annually starting in 2024. The minority shareholder of Weiss has an option to put 10% of the shares to the Company annually starting in 2026 and may put all of the shares starting in 2033. In March 2021, Hoover's minority shareholders put the remaining outstanding shares to the Company. Following the redemption, the Company owns 100% of Hoover. Prior to the redemption, the Company owned 98.01% of Hoover. The Company presents the redeemable noncontrolling interests at the greater of its carrying amount or redemption value at the end of each reporting period in the Consolidated Balance Sheets. Changes in the redemption value are recorded to capital in excess of par value in the Company's Consolidated Balance Sheets.

Comprehensive Income. Comprehensive income consists of net income, foreign currency translation adjustments, net changes in cash flow hedges, and pension and other postretirement plan adjustments.

Recently Adopted and Issued Accounting Pronouncements. In March 2020, the FASB issued guidance providing optional practical expedients and exceptions to ease the potential accounting impacts associated with the discontinuation of the London Interbank Offered Rate (LIBOR) or by other reference rates expected to be discontinued. The Company adopted the contract modification practical expedient in the fourth quarter of 2021 as it is in the process of modifying any contracts that reference a discontinuing reference rate. This guidance is not expected to have a significant impact on the Company's Consolidated Financial Statements.

Other new accounting pronouncements issued but not effective until after December 31, 2021, are not expected to have a material impact on the Company's Consolidated Financial Statements.

3. ACQUISITIONS AND DISPOSITIONS OF BUSINESSES

Acquisitions. During 2021, the Company acquired six businesses: two in education, two in healthcare, one in automotive, and one in other businesses for \$392.4 million in cash and contingent consideration and the assumption of floor plan payables. The assets and liabilities of the companies acquired were recorded at their estimated fair values at the date of the acquisition.

On June 14, 2021, the Company acquired all of the outstanding common shares of Leaf Group Ltd. for \$308.6 million in cash and the assumption of \$9.2 million in liabilities related to their previous stock compensation plan, which will be paid in the future. Leaf is a consumer internet company that builds creator-driven brands in lifestyle and home and art design categories. The acquisition is expected to provide benefits in the future by diversifying the Company's business operations and providing operating synergies with other business units. The Company includes Leaf in other businesses.

Kaplan acquired certain assets of Projects in Knowledge, a continuing medical education provider for healthcare professionals, and another small business in November 2021. These acquisitions are expected to build upon Kaplan's existing customer base in the medical and test preparation fields. Both business are included in Kaplan's supplemental education division.

In December 2021, GHG acquired two businesses, a home health business in Florida and a 50.1% interest in Weiss, a physician practice specializing in allergies, asthma and immunology. The minority shareholder of Weiss has an option to put 10% of the shares to the Company annually starting in 2026 and may put all of the shares starting in 2033. The fair value of the redeemable noncontrolling interest in Weiss was \$6.6 million at the acquisition

date, determined using an income approach. These acquisitions are expected to expand the market the healthcare division serves and are included in healthcare.

On December 28, 2021, the Company's automotive subsidiary acquired a Ford automotive dealership for cash and the assumption of \$16.2 million in floor plan payables (see Note 6). In connection with the acquisition, the automotive subsidiary of the Company borrowed \$22.5 million to finance the acquisition (see Note 11). The dealership will be operated and managed by an entity affiliated with Christopher J. Ourisman, a member of the Ourisman Automotive Group family of dealerships. The acquisition expands the Company's automotive business operations and is included in automotive.

During 2020, the Company acquired three businesses: two in education and one in other businesses for \$96.8 million in cash and contingent consideration. The assets and liabilities of the companies acquired were recorded at their estimated fair values at the date of acquisition.

In the first three months of 2020, Kaplan acquired two small businesses; one in its supplemental education division and one in its international division.

In May 2020, the Company acquired an additional interest in Framebridge, Inc. for cash and contingent consideration that resulted in the Company obtaining control of the investee. Following the acquisition, the Company owns 93.4% of Framebridge. The Company previously accounted for Framebridge under the equity method, and included it in Investments in Affiliates on the Consolidated Balance Sheet (see Note 4). The contingent consideration is primarily based on Framebridge achieving revenue milestones within a specific time period. The fair value of the contingent consideration at the acquisition date was \$50.6 million, determined using a Monte Carlo simulation. The fair value of the redeemable noncontrolling interest in Framebridge was \$6.0 million as of the acquisition date, determined using a market approach. The minority shareholder has an option to put 20% of the minority shares annually starting in 2024. The acquisition is expected to provide benefits in the future by diversifying the Company's business operations and is included in other businesses.

During 2019, the Company acquired eight businesses: one in education, three in healthcare, one in manufacturing, two in automotive and one in other businesses for \$211.8 million in cash and contingent consideration and the assumption of \$25.8 million in floor plan payables. The assets and liabilities of the companies acquired were recorded at their estimated fair values at the date of acquisition.

On January 31, 2019, the Company acquired an interest in two automotive dealerships for cash and the assumption of floor plan payables (see Note 6). In connection with the acquisition, the automotive subsidiary of the Company borrowed \$30 million to finance the acquisition and entered into an interest rate swap to fix the interest rate on the debt at 4.7% per annum. The Company has a 90% interest in the automotive subsidiary. The Company also entered into a management services agreement with an entity affiliated with Christopher J. Ourisman, a member of the Ourisman Automotive Group family of dealerships. Mr. Ourisman and his team operate and manage the dealerships. The Company paid a fee of \$2.3 million for the year ended December 31, 2019 in connection with the management services provided under this agreement. In addition, the Company advanced \$3.5 million to the minority shareholder, an entity controlled by Mr. Ourisman, at an interest rate of 6% per annum. The minority shareholder has the option to acquire up to an additional 10% interest in the automotive subsidiary. The acquisition is expected to provide benefits in the future by diversifying the Company's business operations and is included in automotive.

In July 2019, GHG acquired a 100% interest in a small business which is expected to provide certain strategic benefits in the future and is included in healthcare. On July 11, 2019, Kaplan acquired a 100% interest in Heverald, the owner of ESL Education, Europe's largest language-travel agency and Alpadia, a chain of German and French language schools and junior summer camps. The acquisition is expected to provide synergies within Kaplan's International English business and is included in Kaplan's international division.

On July 31, 2019, the Company closed its acquisition of Clyde's Restaurant Group. At the date of acquisition, CRG owned and operated 13 restaurants and entertainment venues in the Washington, D.C. metropolitan area, including Old Ebbitt Grill and The Hamilton. In connection with the acquisition, the Company entered into several leases with an entity affiliated with some of CRG's senior managers. The acquisition is expected to provide benefits in the future by diversifying the Company's business operations and is included in other businesses.

In September 2019, Joyce/Dayton Corp. acquired the assets of a small business. The acquisition is expected to complement current product offerings and is included in manufacturing.

On December 1, 2019, GHG acquired 75% of the preferred shares of CSI Pharmacy Holding Company, LLC. In connection with the acquisition, CSI entered into an \$11.25 million Term Loan to finance the acquisition. CSI is a specialty and home infusion pharmacy, which provides intravenous immunoglobulin therapies to patients. The minority shareholders may put up to 50% of their preferred shares to GHG and the first put period begins in 2022. A second put period for another tranche of preferred shares begins in 2024. The fair value of the redeemable

noncontrolling interest in CSI was \$1.7 million at the acquisition date, determined using an income approach. The acquisition is expected to expand the product offerings of the healthcare division.

Acquisition-related costs for acquisitions that closed during 2021, 2020 and 2019 were \$3.0 million, \$1.1 million and \$3.0 million, respectively, and were expensed as incurred. The aggregate purchase price of these acquisitions was allocated as follows, based on acquisition date fair values to the following assets and liabilities:

(in thousands)	Purchase Price Allocation		
	Year Ended December 31		
	2021	2020	2019
Accounts receivable	\$ 18,835	\$ 745	\$ 6,762
Inventory	25,420	3,496	34,134
Property, plant and equipment	12,661	3,346	56,391
Lease right-of-use assets	26,333	6,580	98,505
Goodwill	205,003	73,951	84,669
Indefinite-lived intangible assets	22,200	—	46,900
Amortized intangible assets	100,800	14,589	21,291
Other assets	4,899	975	8,308
Deferred income taxes	42,850	15,958	(2,703)
Floor plan payables	(16,198)	—	(25,755)
Other liabilities	(52,421)	(14,917)	(42,555)
Current and noncurrent lease liabilities	(26,286)	(6,593)	(99,131)
Redeemable noncontrolling interest	(6,617)	(6,005)	(1,715)
Noncontrolling interest	—	—	(1,154)
Aggregate purchase price, net of cash acquired	\$ 357,479	\$ 92,125	\$ 183,947

The 2021 fair values recorded were based upon valuations and the estimates and assumptions used in such valuations are subject to change within the measurement period (up to one year from the acquisition date). The recording of deferred tax assets or liabilities, working capital and the final amount of residual goodwill and other intangibles are not yet finalized. The 2019 values above reflect a measurement period adjustment related to the lease right-of-use assets, current and noncurrent lease liabilities and the finalization of working capital. Goodwill is calculated as the excess of the consideration transferred over the net assets recognized and represents the estimated future economic benefits arising from other assets acquired that could not be individually identified and separately recognized. The goodwill recorded due to these acquisitions is attributable to the assembled workforces of the acquired companies and expected synergies. The Company expects to deduct \$79.4 million, \$3.2 million and \$70.7 million of goodwill for income tax purposes for the acquisitions completed in 2021, 2020 and 2019, respectively.

The acquired companies were consolidated into the Company's financial statements starting on their respective acquisition dates. The Company's Consolidated Statements of Operations include aggregate revenue and operating loss of \$132.4 million and \$14.2 million, respectively, for the year ended December 31, 2021. The following unaudited pro forma financial information presents the Company's results as if the current year acquisitions had occurred at the beginning of 2020. The unaudited pro forma information also includes the 2020 acquisitions as if they occurred at the beginning of 2019 and the 2019 acquisitions as if they had occurred at the beginning of 2018:

(in thousands)	Year Ended December 31		
	2021	2020	2019
Operating revenues	\$ 3,513,689	\$ 3,323,427	\$ 3,089,712
Net income	358,890	279,810	304,734

These pro forma results were based on estimates and assumptions, which the Company believes are reasonable, and include the historical results of operations of the acquired companies and adjustments for depreciation and amortization of identified assets and the effect of pre-acquisition transaction related expenses incurred by the Company and the acquired entities. The pro forma information does not include efficiencies, cost reductions and synergies expected to result from the acquisitions. They are not the results that would have been realized had these entities been part of the Company during the periods presented and are not necessarily indicative of the Company's consolidated results of operations in future periods.

Sale of Businesses. In December 2020, the Company completed the sale of Megaphone which was included in other businesses. In November 2019, Kaplan UK completed the sale of a small business which was included in Kaplan International. As a result of these sales, the Company reported gains (losses) in other non-operating income (see Note 16).

Other Transactions. In March 2019, a Hoover minority shareholder put some shares to the Company, which had a redemption value of \$0.6 million. Following the redemption, the Company owned 98.01% of Hoover. In March 2021, Hoover's minority shareholders put the remaining outstanding shares to the Company, which had a redemption value of \$3.5 million. Following the redemption, the Company owns 100% of Hoover.

During 2019, the Company established GHC One as a vehicle to invest in a portfolio of healthcare businesses together with a group of senior managers of GHG. As a holder of preferred units, the Company is obligated to contribute 95% of the capital required for the acquisition of portfolio investments with the remaining 5% of the capital coming from the group of senior managers. The operating agreement of GHC One requires the dissolution of the entity on March 31, 2026, at which time the net assets will be distributed to its members. As a preferred unit holder, the Company will receive an amount up to its contributed capital plus a preferred annual return of 8% (guaranteed return) after the group of senior managers has received a redemption of their 5% interest in net assets (manager return). All distributions in excess of the manager and guaranteed return will be paid to common unit holders, which currently comprise the group of senior managers of GHG. The Company may convert its preferred units to common units at any time after which it will receive 80% of all distributions in excess of the manager return, with the remaining 20% of excess distributions going to the group of senior managers as holders of the other common units.

As of December 31, 2021, the Company holds a controlling financial interest in GHC One and therefore includes the assets, liabilities, results of operations and cash flows in its consolidated financial statements. GHC One acquired CSI and another small business during 2019, and Weiss during 2021. The Company accounts for the minority ownership of the group of senior managers as a mandatorily redeemable noncontrolling interest (see Note 2).

4. INVESTMENTS

Money Market Investments. As of December 31, 2021, the Company had no money market investments, compared to \$268.8 million at December 31, 2020, that are classified as cash and cash equivalents in the Company's Consolidated Balance Sheets.

Investments in Marketable Equity Securities. Investments in marketable equity securities consist of the following:

(in thousands)	As of December 31	
	2021	2020
Total cost	\$ 273,201	\$ 232,847
Gross unrealized gains	537,915	340,255
Gross unrealized losses	(1,119)	—
Total Fair Value	\$ 809,997	\$ 573,102

At December 31, 2021 and 2020, the Company owned 44,430 and 28,000 shares, respectively, in Markel Corporation (Markel) valued at \$54.8 million and \$28.9 million, respectively. The Co-Chief Executive Officer of Markel, Mr. Thomas S. Gayner, is a member of the Company's Board of Directors. As of December 31, 2021, there was no marketable equity security holding that exceeded 5% of the Company's total assets.

The Company purchased \$48.0 million, \$20.0 million and \$7.5 million of marketable equity securities during 2021, 2020 and 2019, respectively.

During 2021, 2020 and 2019, the gross cumulative realized net gains from the sales of marketable equity securities were \$46.0 million, \$23.0 million and \$9.5 million, respectively. The total proceeds from such sales were \$65.5 million, \$93.8 million and \$19.3 million, respectively.

The net gain (loss) on marketable equity securities comprised the following:

(in thousands)	Year ended December 31		
	2021	2020	2019
Gain on marketable equity securities, net	\$ 243,088	\$ 60,787	\$ 98,668
Less: Net (gains) losses in earnings from marketable equity securities sold and donated	(17,830)	13,382	(2,810)
Net unrealized gains in earnings from marketable equity securities still held at the end of the year	\$ 225,258	\$ 74,169	\$ 95,858

Investments in Affiliates. As of December 31, 2021, the Company held an approximate 12% interest in Intersection Holdings, LLC (Intersection), and accounts for its investment under the equity method. The Company holds two of the ten seats of Intersection's governing board, which allows the Company to exercise significant influence over Intersection. As of December 31, 2021, the Company also held investments in several other affiliates; GHG held a 40% interest in Residential Home Health Illinois, a 42.5% interest in Residential Hospice Illinois, a 40% interest in the joint venture formed between GHG and a Michigan hospital, and a 40% interest in the joint venture

formed between GHG and Allegheny Health Network (AHN). For the years ended December 31, 2021, 2020 and 2019, the Company recorded \$10.9 million, \$9.6 million and \$9.3 million, respectively, in revenue for services provided to the affiliates of GHG.

The Company had \$52.5 million and \$26.1 million in its investment account that represents cumulative undistributed income in its investments in affiliates as of December 31, 2021 and 2020, respectively.

In the third quarter of 2021, the Company recorded an impairment charge of \$6.6 million on one of its investments in affiliates as a result of the challenging economic environment for this business following an announcement by the Chinese government to reform the education sector for private education companies. In the first quarter of 2020, the Company recorded impairment charges of \$3.6 million on two of its investments in affiliates as a result of the challenging economic environment for these businesses, of which \$2.7 million related to the Company's investment in Framebridge. It is reasonably possible that further COVID-19 disruptions could result in additional impairment charges related to the Company's investments in affiliates should the impact of COVID-19 not dissipate or have a worsening adverse impact on our affiliates in future periods. The Company records its share of the earnings or losses of its affiliates from their most recent available financial statements. In some instances, the reporting period of the affiliates' financial statements lags the Company's financial reporting period, but such lag is never more than three months. It is possible that the Company's results of operations for the year ended December 31, 2021 does not capture the impact of the COVID-19 pandemic on the earnings or losses of the affiliates whose financial results are recorded on a lag basis.

In May 2020, the Company made an additional investment in Framebridge (see Note 3) that resulted in the Company obtaining control of the investee. The results of operations, cash flows, assets and liabilities of Framebridge are included in the consolidated financial statements of the Company from the date of the acquisition. Timothy J. O'Shaughnessy, President and Chief Executive Officer of Graham Holdings Company, was a personal investor in Framebridge and served as Chairman of the Board prior to the acquisition of the additional interest. The Company acquired Mr. O'Shaughnessy's interest under the same terms as the other Framebridge investors.

In February 2019, the Company sold its interest in Gimlet Media. In connection with this sale, the Company recorded a gain of \$29.0 million in the first quarter of 2019. The total proceeds from the sale were \$33.5 million.

Additionally, Kaplan International Holdings Limited (KIHL) held a 45% interest in a joint venture formed with University of York. KIHL loaned the joint venture £22 million, which loan is repayable over 25 years at an interest rate of 7% and guaranteed by the University of York. The loan is repayable by December 2041.

Summarized Financial Data of Nonconsolidated Affiliates. The Company's investments in affiliates consists of investments in private equity funds and other operating entities that it does not control, but over which it exerts significant influence. The following tables present summarized financial data for the Company's nonconsolidated affiliates. The amounts included in the tables below present 100% of the balance sheets and the results of operations of such nonconsolidated affiliates accounted for under the equity method.

The Company's ownership in private equity fund partnerships varies between approximately 4% and 10%; the Company's related investment balance included in Investments in Affiliates was \$72.8 million and \$41.1 million as of December 31, 2021 and 2020, respectively.

The summarized balance sheet data of the private equity fund investments consists of the following:

(in thousands)	As of December 31	
	2021	2020
Investments in securities, at estimated fair value	\$ 2,039,368	\$ 1,500,192
Other currents assets	28,590	24,111
Total assets	\$ 2,067,958	\$ 1,524,303
Total liabilities	4,790	7,488
Total partners' capital	2,063,168	1,516,815
Total liabilities and partners' capital	\$ 2,067,958	\$ 1,524,303

The summarized operating data of the private equity fund investments was as follows:

(in thousands)	Year ended December 31		
	2021	2020	2019
Net investment loss	\$ (13,324)	\$ (15,301)	\$ (13,691)
Net realized gain on investments	190,368	440	79,443
Net change in unrealized appreciation on investments	1,043,627	525,588	150,641
Increase in net assets from operations	\$ 1,220,671	\$ 510,727	\$ 216,393

The summarized balance sheet data of the operating entity investments consists of the following:

	As of December 31	
(in thousands)	2021	2020
Current assets	\$ 203,274	\$ 164,526
Noncurrent assets	569,505	566,053
Total assets	\$ 772,779	\$ 730,579
Current liabilities	219,220	428,735
Noncurrent liabilities	329,965	264,807
Total liabilities	\$ 549,185	\$ 693,542
Noncontrolling interests	\$ (80,604)	\$ (103,829)

The summarized operating data of the operating entity investments was as follows:

	Year ended December 31		
(in thousands)	2021	2020	2019
Net sales	\$ 358,928	\$ 312,194	\$ 438,168
Gross profit	146,312	11,217	103,510
Net income (loss)	135,241	(206,504)	(125,146)
Net income (loss) attributable to the entity	102,829	(148,394)	(81,268)

Cost Method Investments. The Company held investments without readily determinable fair values in a number of equity securities that are accounted for as cost method investments, which are recorded at cost, less impairment, and adjusted for observable price changes for identical or similar investments of the same issuer. The carrying value of these investments was \$48.9 million and \$35.7 million as of December 31, 2021 and 2020, respectively. During the years ended December 31, 2021, 2020 and 2019, the Company recorded gains of \$11.8 million, \$4.2 million and \$5.1 million, respectively, to those equity securities based on observable transactions. For the year ended December 31, 2020, the Company recorded impairment losses of \$7.3 million to those securities.

5. ACCOUNTS RECEIVABLE, ACCOUNTS PAYABLE AND ACCRUED LIABILITIES

Accounts receivable consist of the following:

	As of December 31	
(in thousands)	2021	2020
Receivables from contracts with customers, less estimated credit losses of \$21,836 and \$21,494	\$ 589,582	\$ 519,577
Other receivables	17,889	17,579
	\$ 607,471	\$ 537,156

The changes in estimated credit losses was as follows:

	Balance at Beginning of Period	Additions – Charged to Costs and Expenses	Deductions	Balance at End of Period
(in thousands)				
2021	\$ 21,494	\$ 6,824	\$ (6,482)	\$ 21,836
2020	14,276	10,667	(3,449)	21,494
2019	14,775	1,706	(2,205)	14,276

Accounts payable and accrued liabilities consist of the following:

	As of December 31	
(in thousands)	2021	2020
Accounts payable	\$ 126,985	\$ 106,215
Accrued compensation and related benefits	179,307	135,493
Other accrued liabilities	277,337	278,528
	\$ 583,629	\$ 520,236

Cash overdrafts of \$5.5 million and \$2.1 million are included in accounts payable and accrued liabilities at December 31, 2021 and 2020, respectively.

6. INVENTORIES, CONTRACTS IN PROGRESS AND VEHICLE FLOOR PLAN PAYABLE

Inventories and contracts in progress consist of the following:

(in thousands)	As of December 31	
	2021	2020
Raw materials	\$ 54,944	\$ 45,382
Work-in-process	11,506	10,402
Finished goods	72,796	64,061
Contracts in progress	2,225	777
	\$ 141,471	\$ 120,622

The Company finances new and used vehicle inventory through standardized floor plan facilities with Truist Bank (Truist floor plan facility) and Ford Motor Credit Company (Ford floor plan facility). The Truist floor plan facility bore interest at variable rates that were based on LIBOR plus 1.15% per annum. On December 28, 2021, the Company entered into an amended agreement with Truist modifying the interest rate to Secured Overnight Financing Rate (SOFR) plus 1.19% per annum. The Ford floor plan facility bears interest at variable rates that are based on the prime rate, with a floor of 3.5%, plus 1.5% per annum. The weighted average interest rate for the floor plan facilities was 1.1%, 1.7% and 3.3% for the years ended December 31, 2021, 2020 and 2019, respectively. As of December 31, 2021, the aggregate capacity under the floor plan facilities was \$70.9 million, of which \$31.6 million had been utilized, and is included in accounts payable and accrued liabilities in the Consolidated Balance Sheet. Changes in the vehicle floor plan payable are reported as cash flows from financing activities in the Consolidated Statements of Cash Flows.

The floor plan facility is collateralized by vehicle inventory and other assets of the relevant dealership subsidiary, and contains a number of covenants, including, among others, covenants restricting the dealership subsidiary with respect to the creation of liens and changes in ownership, officers and key management personnel. The Company was in compliance with all of these restrictive covenants as of December 31, 2021.

The floor plan interest expense related to the vehicle floor plan arrangements is offset by amounts received from manufacturers in the form of floor plan assistance capitalized in inventory and recorded against cost of goods sold in the Consolidated Statements of Operations when the associated inventory is sold. For the years ended December 31, 2021, 2020 and 2019, the Company recognized a reduction in cost of goods sold of \$2.7 million, \$2.1 million and \$1.8 million, respectively, related to manufacturer floor plan assistance.

7. PROPERTY, PLANT AND EQUIPMENT

Property, plant and equipment consist of the following:

(in thousands)	As of December 31	
	2021	2020
Land	\$ 73,651	\$ 19,394
Buildings	211,758	176,653
Machinery, equipment and fixtures	419,778	398,334
Leasehold improvements	215,640	229,512
Construction in progress	19,517	25,301
	940,344	849,194
Less accumulated depreciation	(472,218)	(470,908)
	\$ 468,126	\$ 378,286

Depreciation expense was \$71.4 million, \$74.3 million, and \$59.3 million in 2021, 2020 and 2019, respectively.

The Company capitalized \$2.1 million of interest related to the construction of buildings in 2019.

The Company recorded property, plant and equipment impairment charges of \$2.4 million, \$2.3 million and \$0.3 million in 2021, 2020 and 2019, respectively. The Company estimated the fair value of the property, plant and equipment using income and market approaches.

8. LEASES

The components of lease expense were as follows:

(in thousands)	Year ended December 31		
	2021	2020	2019
Operating lease cost	\$ 96,078	\$ 113,669	\$ 104,007
Short-term and month-to-month lease cost	17,724	21,862	19,267
Variable lease cost	20,889	18,718	20,582
Sublease income	(16,918)	(18,508)	(20,108)
Total net lease cost	\$ 117,773	\$ 135,741	\$ 123,748

The Company recorded impairment charges of \$3.9 million, \$11.4 million and \$1.1 million in 2021, 2020 and 2019, respectively. The Company estimated the fair value of the right-of-use assets using an income approach.

In connection with the sale of the KHE Campuses (KHEC) business, the Company is the guarantor of several leases for which it has established ROU assets and lease liabilities. Any net lease cost or sublease income related to these leases is recorded in other non-operating income. The total net lease cost related to these leases was \$0.1 million, \$0.8 million and \$0.8 million for 2021, 2020 and 2019, respectively.

Supplemental information related to leases was as follows:

(in thousands)	Year ended December 31		
	2021	2020	2019
Cash Flow Information:			
Operating cash flows from operating leases (payments)	\$ 105,164	\$ 113,664	\$ 112,671
Right-of-use assets obtained in exchange for new operating lease liabilities (noncash)	59,409	27,031	236,714
Balance Sheet Information:			
	As of December 31		
	2021	2020	
Lease right-of-use assets	\$ 437,969	\$ 462,560	
Current lease liabilities	\$ 77,655	\$ 86,797	
Noncurrent lease liabilities	405,200	428,849	
Total lease liabilities	\$ 482,855	\$ 515,646	
Weighted average remaining lease term (years)	10.6	9.9	
Weighted average discount rate	4.6 %	4.4 %	

At December 31, 2021, maturities of lease liabilities were as follows:

(in thousands)	December 31, 2021
2022	\$ 97,501
2023	79,854
2024	64,030
2025	50,392
2026	45,897
Thereafter	296,514
Total payments	\$ 634,188
Less: Imputed interest	(151,333)
Total	\$ 482,855

As of December 31, 2021, the Company has entered into operating leases, including educational and other facilities, that have not yet commenced that have minimum lease payments of \$6.6 million. These operating leases will commence in fiscal year 2022 with lease terms of two to 11 years.

9. GOODWILL AND OTHER INTANGIBLE ASSETS

The Company changed the presentation of its segments in the third quarter of 2021 into the following seven reportable segments: Kaplan International, Higher Education, Supplemental Education, Television Broadcasting, Manufacturing, Healthcare and Automotive (see Note 19).

In the third quarter of 2021, as a result of the emergence of the COVID-19 Delta variant and continued weak product demand in the commercial office electrical products and hospitality sectors caused by the COVID-19 pandemic, the Company performed an interim review of the goodwill and indefinite-lived intangibles of the Dekko reporting unit. As a result of the impairment review, the Company recorded a \$26.7 million goodwill impairment charge. The Company estimated the fair value of the reporting unit by utilizing a discounted cash flow model. The carrying value of the reporting unit exceeded the estimated fair value, resulting in a goodwill impairment charge for the amount by which the carrying value exceeded the estimated fair value after taking into account the effect of deferred income taxes. Dekko is included in manufacturing.

In the first quarter of 2020, as a result of the uncertainty and challenging operating environment created by the COVID-19 pandemic, the Company performed an interim review of the goodwill, indefinite-lived intangibles and other long-lived assets of the CRG and automotive dealership reporting units and asset groups. As a result of the impairment reviews, the Company recorded a \$9.7 million goodwill and indefinite-lived intangible asset impairment charge at CRG and a \$6.7 million indefinite-lived intangible asset impairment charge at the auto dealerships. The Company estimated the fair value of the reporting units and indefinite-lived intangible assets by utilizing a discounted cash flow model. The carrying value of the CRG reporting unit and the indefinite-lived intangible assets exceeded the estimated fair value, resulting in a goodwill and indefinite-lived intangible asset impairment charge for the amount by which the carrying value exceeded the estimated fair value. CRG is included in other businesses and the automotive dealerships are included in automotive.

Additional COVID-19 disruptions could result in future adverse changes in projections for future operating results or other key assumptions, such as projected revenue, profit margin, capital expenditures or cash flows associated with fair value estimates and could lead to additional future impairments, which could be material.

In the fourth quarter of 2019, Television Broadcasting recorded an intangible asset impairment charge of \$7.8 million related to FCC licenses at two of its stations, due to a decline in local market conditions. The fair value of the intangible asset was estimated using an income approach.

Amortization of intangible assets for the years ended December 31, 2021, 2020 and 2019, was \$57.9 million, \$56.8 million and \$53.2 million, respectively. Amortization of intangible assets is estimated to be approximately \$59 million in 2022, \$51 million in 2023, \$39 million in 2024, \$31 million in 2025, \$26 million in 2026 and \$41 million thereafter.

The changes in the carrying amount of goodwill, by segment, were as follows:

(in thousands)	Education	Television Broadcasting	Manufacturing	Healthcare	Automotive	Other Businesses	Total
As of December 31, 2019							
Goodwill	\$ 1,140,958	\$ 190,815	\$ 234,993	\$ 98,421	\$ 39,121	\$ 30,423	\$ 1,734,731
Accumulated impairment losses	(331,151)	—	(7,616)	—	—	(7,685)	(346,452)
	809,807	190,815	227,377	98,421	39,121	22,738	1,388,279
Measurement period adjustment	154	—	—	—	—	—	154
Acquisitions	13,022	—	—	—	—	60,928	73,950
Impairment	—	—	—	—	—	(6,878)	(6,878)
Foreign currency exchange rate changes	29,245	—	—	—	—	—	29,245
As of December 31, 2020							
Goodwill	1,183,379	190,815	234,993	98,421	39,121	91,351	1,838,080
Accumulated impairment losses	(331,151)	—	(7,616)	—	—	(14,563)	(353,330)
	852,228	190,815	227,377	98,421	39,121	76,788	1,484,750
Acquisitions	16,342	—	—	19,908	6,705	162,048	205,003
Impairment	—	—	(26,686)	—	—	—	(26,686)
Foreign currency exchange rate changes	(13,485)	—	—	—	—	—	(13,485)
As of December 31, 2021							
Goodwill	1,186,236	190,815	234,993	118,329	45,826	253,399	2,029,598
Accumulated impairment losses	(331,151)	—	(34,302)	—	—	(14,563)	(380,016)
	\$ 855,085	\$ 190,815	\$ 200,691	\$ 118,329	\$ 45,826	\$ 238,836	\$ 1,649,582

The changes in carrying amount of goodwill at the Company's education division were as follows:

(in thousands)	Kaplan International	Higher Education	Supplemental Education	Total
As of December 31, 2019				
Goodwill	\$ 595,604	\$ 174,564	\$ 370,790	\$ 1,140,958
Accumulated impairment losses	—	(111,324)	(219,827)	(331,151)
	595,604	63,240	150,963	809,807
Measurement period adjustment	154	—	—	154
Acquisitions	9,788	—	3,234	13,022
Foreign currency exchange rate changes	29,203	—	42	29,245
As of December 31, 2020				
Goodwill	634,749	174,564	374,066	1,183,379
Accumulated impairment losses	—	(111,324)	(219,827)	(331,151)
	634,749	63,240	154,239	852,228
Acquisitions	—	—	16,342	16,342
Foreign currency exchange rate changes	(13,481)	—	(4)	(13,485)
As of December 31, 2021				
Goodwill	621,268	174,564	390,404	1,186,236
Accumulated impairment losses	—	(111,324)	(219,827)	(331,151)
	\$ 621,268	\$ 63,240	\$ 170,577	\$ 855,085

Other intangible assets consist of the following:

(in thousands)	Useful Life Range	As of December 31, 2021				As of December 31, 2020			
		Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount		
Amortized Intangible Assets									
Student and customer relationships	2–10 years	\$ 300,027	\$ 206,714	\$ 93,313	\$ 294,077	\$ 178,075	\$ 116,002		
Trade names and trademarks	2–15 years (1)	\$ 158,365	\$ 68,113	\$ 90,252	\$ 109,809	\$ 54,766	\$ 55,043		
Network affiliation agreements	10 years	17,400	8,628	8,772	17,400	6,888	10,512		
Databases and technology	3–6 years	36,585	26,464	10,121	34,864	19,924	14,940		
Noncompete agreements	2–5 years	1,000	991	9	1,000	937	63		
Other	1–8 years	68,500	23,847	44,653	24,800	16,714	8,086		
		\$ 581,877	\$ 334,757	\$ 247,120	\$ 481,950	\$ 277,304	\$ 204,646		
Indefinite-Lived Intangible Assets									
Trade names and trademarks		\$ 86,972			\$ 87,429				
Franchise agreements		44,058			21,858				
FCC licenses		11,000			11,000				
Licensure and accreditation		150			150				
		\$ 142,180			\$ 120,437				

(1) As of December 31, 2020, the trade names and trademarks' maximum useful life was 10 years.

10. INCOME TAXES

Income before income taxes consists of the following:

(in thousands)	Year Ended December 31		
	2021	2020	2019
U.S.	\$ 421,420	\$ 403,295	\$ 390,144
Non-U.S.	28,207	3,973	36,335
	\$ 449,627	\$ 407,268	\$ 426,479

The provision for income taxes consists of the following:

(in thousands)	Current	Deferred	Total
Year Ended December 31, 2021			
U.S. Federal	\$ 20,806	\$ 64,356	\$ 85,162
State and Local	4,354	(435)	3,919
Non-U.S.	6,094	1,125	7,219
	\$ 31,254	\$ 65,046	\$ 96,300
Year Ended December 31, 2020			
U.S. Federal	\$ 77,882	\$ 6,669	\$ 84,551
State and Local	8,083	4,954	13,037
Non-U.S.	6,958	2,754	9,712
	\$ 92,923	\$ 14,377	\$ 107,300
Year Ended December 31, 2019			
U.S. Federal	\$ 16,500	\$ 63,838	\$ 80,338
State and Local	2,949	6,630	9,579
Non-U.S.	9,400	(717)	8,683
	\$ 28,849	\$ 69,751	\$ 98,600

The provision for income taxes differs from the amount of income tax determined by applying the U.S. Federal statutory rate of 21% to the income before taxes as a result of the following:

(in thousands)	Year Ended December 31		
	2021	2020	2019
U.S. Federal taxes at statutory rate (see above)	\$ 94,422	\$ 85,526	\$ 89,561
State and local taxes, net of U.S. Federal tax	2,238	15,366	(4,064)
Valuation allowances against state tax benefits, net of U.S. Federal tax	859	(5,067)	11,632
Stock-based compensation	(24)	2,048	(1,743)
Valuation allowances against other non-U.S. income tax benefits	4,042	2,445	1,202
Other, net	(5,237)	6,982	2,012
Provision for Income Taxes	\$ 96,300	\$ 107,300	\$ 98,600

The Company's effective tax rate for 2021 was favorably impacted by a \$17.2 million deferred tax adjustment arising from a change in the estimated deferred state income tax rate attributable to the apportionment formula used in the calculation of deferred taxes related to the Company's pension and other postretirement plans. This benefit is included in the overall state tax provision of \$2.2 million reflected above.

Deferred income taxes consist of the following:

(in thousands)	As of December 31	
	2021	2020
Employee benefit obligations	\$ 64,258	\$ 72,787
Accounts receivable	3,554	3,795
State income tax loss carryforwards	63,050	53,499
State capital loss carryforwards	107	289
State income tax credit carryforwards	511	281
U.S. Federal income tax loss carryforwards	69,509	18,272
U.S. Federal foreign income tax credit carryforwards	970	992
Non-U.S. income tax loss carryforwards	18,877	15,802
Non-U.S. capital loss carryforwards	3,707	3,925
Leases	63,715	74,240
Other	6,396	6,214
Deferred Tax Assets	294,654	250,096
Valuation allowances	(57,603)	(47,217)
Deferred Tax Assets, Net	237,051	202,879
Prepaid pension cost	594,372	457,644
Unrealized gain on marketable equity securities	138,868	88,371
Goodwill and other intangible assets	103,497	90,921
Property, plant and equipment	15,451	15,807
Leases	51,668	61,148
Non-U.S. withholding tax	2,001	1,866
Deferred Tax Liabilities	905,857	715,757
Deferred Income Tax Liabilities, Net	\$ 668,806	\$ 512,878

The Company has \$1,026.1 million of state income tax net operating loss carryforwards available to offset future state taxable income. During 2021, the Company recorded \$115.4 million of state income tax loss carryforwards as a result of the Leaf acquisition. State income tax loss carryforwards, if unutilized, will start to expire approximately as follows:

(in millions)	
2022	\$ 1.9
2023	7.5
2024	7.5
2025	18.3
2026	14.5
2027 and after	976.4
Total	\$ 1,026.1

The Company has recorded at December 31, 2021, \$63.1 million in deferred state income tax assets, net of U.S. Federal income tax, with respect to these state income tax loss carryforwards. The Company has established \$35.4

million in valuation allowances against these deferred state income tax assets, since the Company has determined that it is more likely than not that some of these state tax losses may not be fully utilized in the future to reduce state taxable income.

The Company has \$331.0 million of U.S. Federal income tax loss carryforwards obtained as a result of prior stock acquisitions. During 2021, the Company recorded \$262.5 million of U.S. Federal income tax loss carryforwards as a result of the Leaf acquisition. U.S. Federal income tax loss carryforwards are expected to be fully utilized as follows:

(in millions)		
2022		\$ 27.9
2023		27.4
2024		27.4
2025		24.4
2026		13.6
2027 and after		210.3
Total		\$ 331.0

The Company has established at December 31, 2021, \$69.5 million in U.S. Federal deferred tax assets with respect to these U.S. Federal income tax loss carryforwards.

For U.S. Federal income tax purposes, the Company has established U.S. Federal deferred tax assets with respect to \$1.0 million of foreign tax credits available to be credited against future U.S. Federal income tax liabilities that will start to expire in 2023 if unutilized. The Company has recorded a full valuation allowance against these deferred tax assets since the Company determined that it is more likely than not these foreign tax credit carryforwards may not be utilized in the future to reduce U.S. Federal income taxes.

The Company has \$87.1 million of non-U.S. income tax loss carryforwards as a result of operating losses and carryforwards that were obtained in part through prior stock acquisitions that are available to offset future non-U.S. taxable income and has recorded, with respect to these losses, \$18.9 million in non-U.S. deferred income tax assets. The Company has established \$14.9 million in valuation allowances against the deferred tax assets for the portion of non-U.S. tax losses that may not be utilized to reduce future non-U.S. taxable income. The \$87.1 million of non-U.S. income tax loss carryforwards consist of \$44.2 million in losses that may be carried forward indefinitely; \$12.2 million of losses that, if unutilized, will expire in varying amounts through 2026; and \$30.7 million of losses that, if unutilized, will start to expire after 2026.

The Company has \$12.4 million of non-U.S. capital loss carryforwards that may be carried forward indefinitely and are available to offset future non-U.S. capital gains. The Company recorded a \$3.7 million non-U.S. deferred income tax asset for these non-U.S. capital loss carryforwards and has established a full valuation allowance against this non-U.S. deferred tax asset since the Company has determined that it is more likely than not that the capital loss carryforwards may not be utilized to reduce taxable income in the future.

Deferred tax valuation allowances and changes in deferred tax valuation allowances were as follows:

(in thousands)		Balance at Beginning of Period	Tax Expense and Revaluation	Deductions	Balance at End of Period
Year ended					
December 31, 2021	\$	47,217	\$ 13,915	\$ (3,529)	\$ 57,603
December 31, 2020		46,243	7,303	(6,329)	47,217
December 31, 2019		33,120	14,512	(1,389)	46,243

The Company has established \$37.5 million in valuation allowances against deferred state tax assets recognized, net of U.S. Federal tax. As stated above, approximately \$35.4 million of the valuation allowances, net of U.S. Federal income tax, relate to state income tax loss carryforwards. In most instances, the Company has established valuation allowances against deferred state income tax assets without considering potentially offsetting deferred tax liabilities established with respect to prepaid pension cost and goodwill. Prepaid pension cost and goodwill have not been considered a source of future taxable income for realizing those deferred state tax assets recognized since these temporary differences are not likely to reverse in the foreseeable future. However, certain deferred state tax assets have an indefinite life. As a result, the Company has considered deferred tax liabilities for prepaid pension cost and goodwill as a source of future taxable income for realizing those deferred state tax assets with indefinite lives. The valuation allowances established against deferred state income tax assets may increase or decrease within the next 12 months, based on operating results or the market value of investment holdings. In 2021, the Company released \$1.8 million in valuation allowances against deferred state income tax assets at the healthcare division as the healthcare division generated positive operating results that support the realization of these deferred

tax assets, net of the federal benefit. The Company will monitor future results on a quarterly basis to determine whether the valuation allowances provided against deferred state tax assets should be increased or decreased as future circumstances warrant.

The Company has established \$19.1 million in valuation allowances against non-U.S. deferred tax assets, and, as stated above, \$14.9 million of the non-U.S. valuation allowances relate to non-U.S. income tax loss carryforwards and \$3.7 million relate to non-U.S. capital loss carryforwards. Valuation allowances established against non-U.S. deferred tax assets are recorded at the education division and other businesses. These non-U.S. valuation allowances may increase or decrease within the next 12 months, based on operating results. As a result, the Company is unable to estimate the potential tax impact, given the uncertain operating environment. The Company will monitor future education division and other businesses' operating results and projected future operating results on a quarterly basis to determine whether the valuation allowances provided against non-U.S. deferred tax assets should be increased or decreased as future circumstances warrant.

The Company estimates that unremitted non-U.S. subsidiary earnings, when distributed, will not be subject to tax except to the extent non-U.S. withholding taxes are imposed. Approximately \$2.0 million of deferred tax liabilities remain recorded on the books at December 31, 2021 with respect to future non-U.S. withholding taxes the Company estimated may be imposed on future cash distributions.

U.S. Federal and state tax liabilities may be recorded if the investment in non-U.S. subsidiaries become held for sale instead of being held indefinitely, but calculation of the tax due is not practicable.

On March 27, 2020, the Coronavirus Aid, Relief, and Economic Security (CARES) Act was enacted, which included several technical corrections to the Tax Cuts and Jobs Act and provisions allowing certain net operating losses generated by businesses in 2018, 2019, and 2020 to be carried back five years. Overall, the CARES Act had limited impact on the Company's tax provision for the year ended December 31, 2021.

On July 1, 2015 (the Distribution Date), the Company completed the spin-off of Cable ONE as an independent, publicly traded company. The transaction was structured as a tax-free spin-off of Cable ONE to the stockholders of the Company. Since July 1, 2015, Cable ONE has been an independent public company trading on the New York Stock Exchange under the symbol "CABO". In connection with the CARES Act, Cable ONE has the ability to carryback its 2019 taxable losses to the tax period from January 1, 2015 to June 30, 2015, the period in which Cable ONE was included in the Company's 2015 tax return. As a result, the Company amended its 2015 tax returns in order to accommodate Cable ONE's request to carryback its 2019 taxable losses. The Company expects that this action will have no impact on the results or the financial position of the Company. To reflect the expected refund due to Cable ONE, the Company has included a \$15.9 million current income tax receivable and a corresponding liability to Cable ONE on its balance sheet as of December 31, 2021.

The 2018 U.S. Federal tax return and subsequent years remain open to IRS examination. The Company files income tax returns with the U.S. Federal government and in various state, local and non-U.S. governmental jurisdictions, with the consolidated U.S. Federal tax return filing considered the only major tax jurisdiction.

The Company endeavors to comply with tax laws and regulations where it does business, but cannot guarantee that, if challenged, the Company's interpretation of all relevant tax laws and regulations will prevail and that all tax benefits recorded in the financial statements will ultimately be recognized in full.

The following summarizes the Company's unrecognized tax benefits, excluding interest and penalties, for the respective periods:

(in thousands)	Year Ended December 31		
	2021	2020	2019
Beginning unrecognized tax benefits	\$ 1,898	\$ 1,572	\$ 2,483
Increases related to current year tax positions	1,061	742	—
Increases related to prior year tax positions	45	656	1,072
Decreases related to prior year tax positions	—	—	—
Decreases related to settlement with tax authorities	—	(1,072)	(1,291)
Decreases due to lapse of applicable statutes of limitations	—	—	(692)
Ending unrecognized tax benefits	\$ 3,004	\$ 1,898	\$ 1,572

The unrecognized tax benefits relate to federal and state research and development tax credits applicable to the 2019 to 2021 tax periods, as well as state income tax filing positions applicable to the 2012 to 2014 and 2020 tax periods. In making these determinations, the Company presumes that taxing authorities pursuing examinations of the Company's compliance with tax law filing requirements will have full knowledge of all relevant information, and, if necessary, the Company will pursue resolution of disputed tax positions by appeals or litigation. Although the Company cannot predict the timing of resolution with tax authorities, the Company estimates that some of the

unrecognized tax benefits may change in the next 12 months due to settlement with the tax authorities. The Company expects that a \$1.8 million federal tax benefit and a \$1.3 million state tax benefit, net of \$0.3 million federal tax expense, will reduce the effective tax rate in the future if the unrecognized tax benefits are recognized.

The Company classifies interest and penalties related to uncertain tax positions as a component of interest and other expenses, respectively. As of December 31, 2021, the Company has not accrued interest related to the unrecognized tax benefits. The Company has not accrued any penalties related to the unrecognized tax benefits.

11. DEBT

The Company's borrowings consist of the following:

(in thousands)	Maturities	Stated Interest Rate	Effective Interest Rate	As of December 31	
				2021	2020
Unsecured notes ⁽¹⁾	2026	5.75%	5.75%	\$ 396,830	\$ 396,112
Revolving credit facility	2023	1.52% - 3.75%	1.63%	209,643	74,686
Truist Bank commercial note	2029	2.08% - 2.14%	2.12%	—	25,250
Truist Bank commercial note ⁽²⁾	2031	1.84% - 1.85%	1.87%	24,504	—
Truist Bank commercial note	2032	2.10%	2.10%	22,500	—
Pinnacle Bank term loan	2024	4.15%	4.18%	9,558	10,692
Pinnacle Bank line of credit	2022	3.25%	3.56%	—	2,295
Other indebtedness	2023 - 2030	0.00% - 16.00%	—	4,466	3,520
Total Debt				667,501	512,555
Less: current portion				(141,749)	(6,452)
Total Long-Term Debt				\$ 525,752	\$ 506,103

1) The carrying value is net of \$3.2 million and \$3.9 million of unamortized debt issuance costs as of December 31, 2021 and 2020, respectively.

2) The carrying value is net of \$0.1 million of unamortized debt issuance costs as of December 31, 2021.

The Company's \$400 million senior unsecured fixed-rate notes (the Notes), due June 1, 2026, are guaranteed, jointly and severally, on a senior unsecured basis, by certain of the Company's existing and future domestic subsidiaries, as described in the terms of the indenture. The Notes have a coupon rate of 5.75% per annum, payable semi-annually on June 1 and December 1. The Company may redeem the Notes in whole or in part at any time at the respective redemption prices described in the indenture. At December 31, 2021 and 2020, the fair value of the Notes, based on quoted market prices (Level 2 fair value assessment), totaled \$417.5 million and \$421.7 million, respectively.

In May 2018, the Company entered into an amended \$300 million unsecured five-year revolving credit facility (the Revolving Credit Facility) that is guaranteed, jointly and severally, by certain of the Company's existing and future domestic subsidiaries. The Revolving Credit Facility matures on May 30, 2023; bears interest at the Company's option, either at (a) a fluctuating interest rate equal to the highest of Wells Fargo's prime rate, 0.5 percent above the Federal funds rate or the one-month Eurodollar rate plus 1%, or (b) the Eurodollar rate for the applicable currency and interest period as defined in the agreement, which is generally a periodic rate equal to LIBOR, CDOR, BBSY or SOR plus an applicable margin that depends on the Company's consolidated debt to consolidated adjusted EBITDA; and has a commitment fee based on the Company's leverage ratio, of between 0.15% and 0.25% on the undrawn portion. On November 23, 2021, the Company amended the Revolving Credit Facility to, among other things, update the benchmark interest rates for borrowings denominated in (i) U.S. dollars under its U.S. dollar tranche to be based on SOFR on or before the USD LIBOR transition date and (ii) British Pound (GBP) and Singapore dollars under its multicurrency tranche to be based on Sterling Overnight Index Average (SONIA) and Singapore Overnight Rate Average (SORA), respectively. The Company is required to maintain a Total Net Leverage Ratio of not greater than 3.5 to 1.0 and a consolidated interest coverage ratio of at least 3.5 to 1.0 based upon the ratio of consolidated adjusted EBITDA to consolidated interest expense as determined pursuant to the credit agreement. The outstanding balance on the Company's revolving credit facility was \$209.6 million as of December 31, 2021, consisting of borrowings of \$137 million under its U.S. dollar tranche with interest payable at either 1 month USD LIBOR plus 1.50% or prime rate plus 0.5%, as applicable, and £54 million under its multicurrency tranche with interest payable at SONIA plus 1.50%.

On December 28, 2021, the Company's automotive subsidiary entered into a commercial note with Truist Bank in an aggregate amount of \$22.5 million. The commercial note is payable over a 10-year period in monthly installments of \$0.2 million, plus accrued and unpaid interest, due on the first day of each month, with a final payment of the outstanding principal balance on January 1, 2032. The commercial note bears interest at variable

rates based on SOFR plus 2.05% per annum. The commercial note contains terms and conditions, including remedies in the event of a default by the automotive subsidiary.

On October 21, 2021, the Company's automotive subsidiary entered into a commercial note with Truist Bank in an aggregate principal amount of \$24.75 million. The commercial note is payable over a 10-year period in monthly installments of \$0.1 million, plus accrued and unpaid interest, due on the first day of each month, with a final payment of the outstanding principal balance on October 1, 2031. The commercial note bears interest at variable rates based on SOFR plus 1.8% per annum. The commercial note contains terms and conditions, including remedies in the event of a default by the automotive subsidiary. The automotive subsidiary used the net proceeds from this commercial note to repay the outstanding balance on the commercial note due in 2029. On the same date, the Company's automotive subsidiary rolled its existing interest rate swap into a new interest rate swap agreement with a total notional value of \$24.75 million and a maturity date of October 1, 2031. The new interest rate swap agreement will pay the automotive subsidiary variable interest on the \$24.75 million notional amount based on SOFR plus 1.8% per annum and the automotive subsidiary will pay the counterparty a fixed rate of 4.118% per annum. The new interest rate swap agreement was entered into to convert the variable rate borrowing under this commercial note into a fixed rate borrowing. Based on the terms of the new interest rate swap agreement and the underlying borrowing, the new interest rate swap was determined to be effective and thus qualifies as a cash flow hedge.

On January 26, 2021, the GHG subsidiary amended its loan facility with Pinnacle Bank to decrease the principal of the term loan to \$10.6 million, bearing interest at 4.15% per annum, and increase the two-year line of credit expiring on December 2, 2022 to \$6.0 million, bearing interest at the greater of (a) 3.25% and (b) the sum of one-month LIBOR as in effect on the first business day of each month plus an applicable interest rate of 2.75%.

The fair value of the Company's other debt, which is based on Level 2 inputs, approximates its carrying value as of December 31, 2021 and 2020. The Company is in compliance with all financial covenants of the Revolving Credit Facility, commercial notes, and Pinnacle Bank term loan and line of credit as of December 31, 2021.

During 2021 and 2020, the Company had average borrowings outstanding of approximately \$545.2 million and \$512.4 million, respectively, at average annual interest rates of approximately 4.8% and 5.1%, respectively. The Company incurred net interest expense of \$30.5 million, \$34.4 million and \$23.6 million during 2021, 2020 and 2019, respectively.

For the years ended December 31, 2021 and 2020, the Company recorded interest expense of \$4.1 million and \$8.5 million, respectively, to adjust the fair value of the mandatorily redeemable noncontrolling interest. For the year ended December 31, 2019, the Company recorded interest income of \$0.1 million to adjust the fair value of the mandatorily redeemable noncontrolling interest. Fair value adjustments are presented within interest expense and interest income in the Company's Consolidated Statements of Operations and are reclassified to present the net change in fair value for each reporting period. The fair value of the mandatorily redeemable noncontrolling interest was based on the fair value of the underlying subsidiaries owned by GHC One, after taking into account any debt and other noncontrolling interests of its subsidiary investments. The fair value of the owned subsidiaries is determined by reference to either a discounted cash flow or EBITDA multiple, which approximates fair value (Level 3 fair value assessment).

12. FAIR VALUE MEASUREMENTS

The Company's financial assets and liabilities measured at fair value on a recurring basis were as follows:

(in thousands)	As of December 31, 2021			
	Level 1	Level 2	Level 3	Total
Assets				
Marketable equity securities ⁽¹⁾	\$ 809,997	\$ —	\$ —	\$ 809,997
Other current investments ⁽²⁾	7,230	7,218	—	14,448
Total Financial Assets	\$ 817,227	\$ 7,218	\$ —	\$ 824,445
Liabilities				
Deferred compensation plan liabilities ⁽³⁾	\$ —	\$ 31,589	\$ —	\$ 31,589
Contingent consideration liabilities ⁽⁴⁾	—	—	14,881	14,881
Interest rate swap ⁽⁵⁾	—	2,049	—	2,049
Foreign exchange swap ⁽⁶⁾	—	484	—	484
Mandatorily redeemable noncontrolling interest ⁽⁷⁾	—	—	13,661	13,661
Total Financial Liabilities	\$ —	\$ 34,122	\$ 28,542	\$ 62,664
(in thousands)	As of December 31, 2020			
	Level 1	Level 2	Level 3	Total
Assets				
Money market investments ⁽⁸⁾	\$ —	\$ 268,841	\$ —	\$ 268,841
Marketable equity securities ⁽¹⁾	573,102	—	—	573,102
Other current investments ⁽²⁾	10,397	4,083	—	14,480
Total Financial Assets	\$ 583,499	\$ 272,924	\$ —	\$ 856,423
Liabilities				
Deferred compensation plan liabilities ⁽³⁾	\$ —	\$ 31,178	\$ —	\$ 31,178
Contingent consideration liabilities ⁽⁴⁾	—	—	37,174	37,174
Interest rate swap ⁽⁵⁾	—	2,342	—	2,342
Foreign exchange swap ⁽⁶⁾	—	259	—	259
Mandatorily redeemable noncontrolling interest ⁽⁷⁾	—	—	9,240	9,240
Total Financial Liabilities	\$ —	\$ 33,779	\$ 46,414	\$ 80,193

(1) The Company's investments in marketable equity securities are held in common shares of U.S. and Canadian corporations that are actively traded on U.S. and Canadian stock exchanges. Price quotes for these shares are readily available.

(2) Includes U.S. Government Securities, corporate bonds, mutual funds and time deposits. These investments are valued using a market approach based on the quoted market prices of the security or inputs that include quoted market prices for similar instruments and are classified as either Level 1 or Level 2 in the fair value hierarchy.

(3) Includes Graham Holdings Company's Deferred Compensation Plan and supplemental savings plan benefits under the Graham Holdings Company's Supplemental Executive Retirement Plan, which are included in accrued compensation and related benefits. These plans measure the market value of a participant's balance in a notional investment account that is comprised primarily of mutual funds, which are based on observable market prices. However, since the deferred compensation obligations are not exchanged in an active market, they are classified as Level 2 in the fair value hierarchy. Realized and unrealized gains (losses) on deferred compensation are included in operating income.

(4) Included in Accounts payable and accrued liabilities and Other Liabilities. The Company determined the fair value of the contingent consideration liabilities using either a Monte Carlo simulation or probability-weighted analysis depending on the type of target included in the contingent consideration requirements (revenue, EBITDA, client retention). All analyses included estimated financial projections for the acquired businesses and acquisition-specific discount rates.

(5) Included in Other Liabilities. The Company utilized a market approach model using the notional amount of the interest rate swap multiplied by the observable inputs of time to maturity and market interest rates.

(6) Included in Accounts payable and accrued liabilities, and valued based on a valuation model that calculates the differential between the contract price and the market-based forward rate.

(7) The fair value of the mandatorily redeemable noncontrolling interest is based on the fair value of the underlying subsidiaries owned by GHC One, after taking into account any debt and other noncontrolling interests of its subsidiary investments. The fair value of the owned subsidiaries is determined using enterprise value analyses which include an equal weighing between guideline public company and discounted cash flow analyses.

(8) The Company's money market investments are included in cash and cash equivalents and the value considers the liquidity of the counterparty.

The following table provides a reconciliation of changes in the Company's financial liabilities measured at fair value on a recurring basis, using Level 3 inputs:

(in thousands)		Contingent consideration liabilities	Mandatorily redeemable noncontrolling interest
As of December 31, 2019	\$	13,546	\$ 829
Acquisition of business		50,609	—
Changes in fair value ⁽¹⁾		(2,051)	8,483
Accretion of value included in net income ⁽¹⁾		2,895	—
Settlements or distributions		(28,061)	(72)
Foreign currency exchange rate changes		236	—
As of December 31, 2020		37,174	9,240
Acquisition of business		1,868	—
Changes in fair value ⁽¹⁾		(5,482)	4,077
Capital contributions		—	427
Accretion of value included in net income ⁽¹⁾		1,275	—
Settlements or distributions		(19,942)	(83)
Foreign currency exchange rate changes		(12)	—
As of December 31, 2021	\$	14,881	\$ 13,661

(1) Changes in fair value and accretion of value of contingent consideration liabilities are included in Selling, general and administrative expenses and the changes in fair value of mandatorily redeemable noncontrolling interest is included in Interest expense in the Company's Consolidated Statements of Operations.

For the years ended December 31, 2021, 2020 and 2019, the Company recorded goodwill and other long-lived asset impairment charges of \$32.9 million, \$30.2 million and \$9.2 million, respectively (see Note 19). The remeasurement of goodwill and other long-lived assets is classified as a Level 3 fair value assessment due to the significance of unobservable inputs developed in the determination of the fair value. The Company used a discounted cash flow model to determine the estimated fair value of the reporting unit, indefinite-lived intangible assets, and other long-lived assets. A market value approach was also utilized to supplement the discounted cash flow model. The Company made estimates and assumptions regarding future cash flows, royalty rates, discount rates, market values, and long-term growth rates.

For the years ended December 31, 2021, 2020 and 2019, the Company recorded gains of \$11.8 million, \$4.2 million, and \$5.1 million, respectively, to equity securities that are accounted for as cost method investments based on observable transactions for identical or similar investments of the same issuer. For the year ended December 31, 2020, the Company recorded impairment losses of \$7.3 million to equity securities that are accounted for as cost method investments.

For the years ended December 31, 2021 and 2020, the Company recorded impairment charges of \$6.6 million on one of its investments in affiliates and \$3.6 million on two of its investments in affiliates, respectively (see Note 4).

13. REVENUE FROM CONTRACTS WITH CUSTOMERS

The Company generated 78%, 78% and 76% of its revenue from U.S. domestic sales in 2021, 2020 and 2019, respectively. The remaining 22%, 22%, and 24% of revenue was generated from non-U.S. sales.

In 2021, 2020 and 2019, the Company recognized 67%, 73%, and 73%, respectively, of its revenue over time as control of the services and goods transferred to the customer. The remaining 33%, 27% and 27%, respectively, of revenue was recognized at a point in time, when the customer obtained control of the promised goods.

The determination of the method by which the Company measures its progress towards the satisfaction of its performance obligations requires judgment and is described in the Summary of Significant Accounting Policies (Note 2).

In the second quarter of 2020, GHG received \$7.4 million under the CARES Act as a general distribution from the Provider Relief Fund to provide relief for lost revenues and expenses incurred in connection with COVID-19. The healthcare revenues for the year ended December 31, 2020 includes \$5.7 million for lost revenues related to COVID-19 (see Note 19).

Contract Assets. As of December 31, 2021, the Company recognized a contract asset of \$17.7 million related to a contract at a Kaplan International business, which is included in Deferred Charges and Other Assets. The Company expects to recognize an additional \$495.9 million related to the remaining performance obligation in the contract over the next eleven years. As of December 31, 2020, the contract asset was \$8.7 million.

Deferred Revenue. The Company records deferred revenue when cash payments are received or due in advance of the Company's performance, including amounts which are refundable. The following table presents the change in the Company's deferred revenue balance during the year ended December 31, 2021:

(in thousands)	As of		% Change
	December 31, 2021	December 31, 2020	
Deferred revenue	\$ 363,065	\$ 343,322	6

In April 2020, GHG received \$31.5 million under the expanded Medicare Accelerated and Advanced Payment Program modified by the CARES Act as a result of COVID-19. The Department of Health and Human Services began to recoup this advance 365 days after the payment was issued and for the year ended December 31, 2021, \$18.9 million of the balance was recognized as revenue for claims submitted for eligible services. The remaining amount is included in the current deferred revenue balance on the Consolidated Balance Sheet as of December 31, 2021. As of December 31, 2020, the \$31.5 million balance was included in the current and noncurrent deferred revenue balances on the Consolidated Balance Sheet.

The majority of the change in the deferred revenue balance is due to increased enrollment in the Kaplan International division as a result of recovery from COVID-19 and current year acquisitions, offset by the advanced Medicare payment. During the year ended December 31, 2021, the Company recognized \$278.6 million from the Company's deferred revenue balance as of December 31, 2020.

Revenue allocated to remaining performance obligations represents deferred revenue amounts that will be recognized as revenue in future periods. As of December 31, 2021, the deferred revenue balance related to certain medical and nursing qualifications with an original contract length greater than twelve months at Kaplan Supplemental Education was \$8.8 million. Kaplan Supplemental Education expects to recognize 72% of this revenue over the next twelve months and the remainder thereafter.

Costs to Obtain a Contract. The following table presents changes in the Company's costs to obtain a contract asset:

(in thousands)	Balance at Beginning of Year	Costs Associated with New Contracts	Less: Costs Amortized During the Year	Other	Balance at End of Year
2021	\$ 24,363	\$ 61,214	\$ (59,116)	\$ (380)	\$ 26,081
2020	31,020	51,891	(58,855)	307	24,363
2019	21,311	66,607	(57,741)	843	31,020

The majority of other activity was related to currency translation adjustments in 2021, 2020, and 2019.

14. CAPITAL STOCK, STOCK AWARDS AND STOCK OPTIONS

Capital Stock. Each share of Class A common stock and Class B common stock participates equally in dividends. The Class B stock has limited voting rights and as a class has the right to elect 30% of the Board of Directors; the Class A stock has unlimited voting rights, including the right to elect a majority of the Board of Directors.

During 2021, 2020, and 2019 the Company purchased a total of 93,969, 406,112, and 3,392 shares, respectively, of its Class B common stock at a cost of approximately \$55.7 million, \$161.8 million, and \$2.1 million, respectively. On September 10, 2020, the Board of Directors authorized the Company to purchase up to 500,000 shares of its Class B Common Stock. The Company did not announce a ceiling price or time limit for the purchases. At December 31, 2021, the Company had remaining authorization from the Board of Directors to purchase up to 270,182 shares of Class B common stock.

Stock Awards. In 2012, the Company adopted an incentive compensation plan (the 2012 Plan), which, among other provisions, authorizes the awarding of Class B common stock to key employees in the form of stock awards, stock options and other awards involving the actual transfer of shares. All stock awards, stock options and other awards involving the actual transfer of shares issued subsequent to the adoption of this plan are covered under this incentive compensation plan. Stock awards made under the 2012 Plan are primarily subject to the general restriction that stock awarded to a participant will be forfeited and revert to Company ownership if the participant's employment terminates before the end of a specified period of service to the Company. The number of Class B common shares authorized for issuance under the 2012 Plan is 772,588 shares. At December 31, 2021, there were 545,000 shares reserved for issuance under the 2012 incentive compensation plan. Of this number, 214,760 shares were subject to stock awards and stock options outstanding, and 330,240 shares were available for future awards.

Activity related to stock awards under the 2012 incentive compensation plan for the year ended December 31, 2021 was as follows:

	Number of Shares	Average Grant-Date Fair Value
Beginning of year, unvested	27,240	\$ 584.24
Awarded	20,258	539.36
Vested	(12,871)	522.17
Forfeited	(3,056)	598.44
End of Year, unvested	<u>31,571</u>	<u>579.37</u>

For the share awards outstanding at December 31, 2021, the aforementioned restriction is expected to lapse in 2023 for 12,820 shares, 2025 for 16,751 shares and 2027 for 2,000 shares. Stock-based compensation costs resulting from Company stock awards were \$3.9 million, \$4.1 million and \$4.2 million in 2021, 2020 and 2019, respectively.

As of December 31, 2021, there was \$9.8 million of total unrecognized compensation expense related to these awards. That cost is expected to be recognized on a straight-line basis over a weighted average period of 2.3 years.

Stock Options. Stock options granted under the 2012 Plan cannot be less than the fair value on the grant date, generally vest over six years and have a maximum term of ten years.

Activity related to options outstanding for the year ended December 31, 2021 was as follows:

	Number of Shares	Average Option Price
Beginning of year	183,189	\$ 612.16
Granted	—	—
Exercised	—	—
Expired or forfeited	—	—
End of Year	<u>183,189</u>	<u>612.16</u>

Of the shares covered by options outstanding at the end of 2021, 118,139 are now exercisable; 13,209 are expected to become exercisable in 2022; 13,211 are expected to become exercisable in 2023; 12,876 are expected to become exercisable in 2024; 12,877 are expected to become exercisable in 2025; and 12,877 are expected to become exercisable in 2026. For 2021, 2020 and 2019, the Company recorded expense of \$1.7 million, \$2.2 million and \$2.0 million, respectively, related to stock options. Information related to stock options outstanding and exercisable at December 31, 2021, is as follows:

Range of Exercise Prices	Options Outstanding			Options Exercisable		
	Shares Outstanding at 12/31/2021	Weighted Average Remaining Contractual Life (years)	Weighted Average Exercise Price	Shares Exercisable at 12/31/2021	Weighted Average Remaining Contractual Life (years)	Weighted Average Exercise Price
\$244	1,931	0.9	\$ 243.85	1,931	0.9	\$ 243.85
427	77,258	8.7	426.86	12,876	8.7	426.86
719	77,258	2.8	719.15	77,258	2.8	719.15
805–872	26,742	4.0	865.02	26,074	3.9	865.51
	183,189	5.5	612.16	118,139	3.7	711.83

At December 31, 2021, the intrinsic value for all options outstanding, exercisable and unvested was \$16.4 million, \$3.4 million and \$13.1 million, respectively. The intrinsic value of a stock option is the amount by which the market value of the underlying stock exceeds the exercise price of the option. The market value of the Company's stock was \$629.83 at December 31, 2021. At December 31, 2021, there were 65,050 unvested options related to this plan with an average exercise price of \$431.16 and a weighted average remaining contractual term of 8.7 years. At December 31, 2020, there were 82,385 unvested options with an average exercise price of \$453.97 and a weighted average remaining contractual term of 9.4 years.

As of December 31, 2021, total unrecognized stock-based compensation expense related to stock options was \$5.7 million, which is expected to be recognized on a straight-line basis over a weighted average period of approximately 4.7 years. There were no options exercised during 2021. There were 77,258 options exercised during 2020. The total intrinsic value of options exercised during 2020 was \$11.1 million; a tax benefit from these stock option exercises of \$2.9 million was realized. There were 1,743 options exercised during 2019. The total intrinsic value of

options exercised during 2019 was \$0.6 million; a tax benefit from these option exercises of \$0.2 million was realized.

During 2020, the Company granted 77,258 options at an exercise price above the fair market value of its common stock at the date of grant. The weighted average grant-date fair value of options granted during 2020 was \$93.79. No options were granted during 2021 or 2019.

The fair value of options at date of grant was estimated using the Black-Scholes method utilizing the following assumptions:

	2020
Expected life (years)	8
Interest rate	0.53%
Volatility	27.70%
Dividend yield	1.45%

The Company also maintains a stock option plan at Kaplan. Under the provisions of this plan, options are issued with an exercise price equal to the estimated fair value of Kaplan's common stock, and options vest ratably over the number of years specified (generally four to five years) at the time of the grant. Upon exercise, an option holder may receive Kaplan shares or cash equal to the difference between the exercise price and the then fair value.

At December 31, 2021, a Kaplan senior manager holds 7,206 Kaplan restricted shares. The fair value of Kaplan's common stock is determined by the Company's compensation committee of the Board of Directors, and in January 2022, the committee set the fair value price at \$1,425 per share. No options were awarded during 2021, 2020, or 2019; no options were exercised during 2021, 2020 or 2019; and no options were outstanding at December 31, 2021.

Kaplan recorded stock compensation expense of \$1.3 million in 2021, and a stock compensation credit of \$1.1 million and \$1.3 million in 2020 and 2019, respectively. At December 31, 2021, the Company's accrual balance related to the Kaplan restricted shares totaled \$10.3 million. There were no payouts in 2021, 2020 or 2019.

Earnings Per Share. The Company's unvested restricted stock awards contain nonforfeitable rights to dividends and, therefore, are considered participating securities for purposes of computing earnings per share pursuant to the two-class method. The diluted earnings per share computed under the two-class method is lower than the diluted earnings per share computed under the treasury stock method, resulting in the presentation of the lower amount in diluted earnings per share. The computation of earnings per share under the two-class method excludes the income attributable to the unvested restricted stock awards from the numerator and excludes the dilutive impact of those underlying shares from the denominator.

The following reflects the Company's net income and share data used in the basic and diluted earnings per share computations using the two-class method:

(in thousands, except per share amounts)	Year Ended December 31		
	2021	2020	2019
Numerator:			
Numerator for basic earnings per share:			
Net income attributable to Graham Holdings Company common stockholders	\$ 352,075	\$ 300,365	\$ 327,855
Less: Dividends paid—common stock outstanding and unvested restricted shares	(30,136)	(29,970)	(29,553)
Undistributed earnings	321,939	270,395	298,302
Percent allocated to common stockholders	99.36 %	99.45 %	99.45 %
	319,867	268,917	296,665
Add: Dividends paid—common stock outstanding	29,946	29,812	29,387
Numerator for basic earnings per share	349,813	298,729	326,052
	5	4	13
Numerator for diluted earnings per share	\$ 349,818	\$ 298,733	\$ 326,065
Denominator:			
Denominator for basic earnings per share:			
Weighted average shares outstanding	4,951	5,124	5,285
Add: Effect of dilutive stock options	14	15	42
Denominator for diluted earnings per share	4,965	5,139	5,327
Graham Holdings Company Common Stockholders:			
Basic earnings per share	\$ 70.65	\$ 58.30	\$ 61.70
Diluted earnings per share	\$ 70.45	\$ 58.13	\$ 61.21

Earnings per share amounts may not recalculate due to rounding.

Diluted earnings per share excludes the following weighted average potential common shares, as the effect would be antidilutive, as computed under the treasury stock method:

(in thousands)	Year Ended December 31		
	2021	2020	2019
Weighted average restricted stock	13	12	12

The 2021, 2020 and 2019 diluted earnings per share amounts exclude the effects of 104,000, 181,258 and 104,000 stock options outstanding, respectively, as their inclusion would have been antidilutive due to a market condition.

In 2021, 2020 and 2019, the Company declared regular dividends totaling \$6.04, \$5.80 and \$5.56 per share, respectively.

15. PENSIONS AND OTHER POSTRETIREMENT PLANS

The Company maintains various pension and incentive savings plans and contributed to multiemployer plans on behalf of certain union-represented employee groups. Most of the Company's employees are covered by these plans. The Company also provides healthcare and life insurance benefits to certain retired employees. These employees become eligible for benefits after meeting age and service requirements.

The Company uses a measurement date of December 31 for its pension and other postretirement benefit plans.

In December 2019, the Company purchased an irrevocable group annuity contract from an insurance company for \$216.8 million to settle \$212.1 million of the outstanding defined benefit pension obligation related to certain retirees and beneficiaries. The purchase of the group annuity contract was funded from the assets of the Company's pension plans. As a result of this transaction, the Company was relieved of all responsibility for these pension obligations and the insurance company is now required to pay and administer the retirement benefits owed to approximately 3,800 retirees and beneficiaries, with no change to the amount, timing or form of monthly retirement benefit payments. As a result, the Company recorded a one-time settlement gain of \$91.7 million.

Defined Benefit Plans. The Company's defined benefit pension plans consist of various pension plans and a Supplemental Executive Retirement Plan (SERP) offered to certain executives of the Company.

In the second quarter of 2021, the Company recorded \$1.1 million in expenses related to a Separation Incentive Program (SIP) for certain Dekko employees, which will be funded from the assets of the Company's pension plans.

In the second quarter of 2020, the Company recorded \$6.0 million in expenses related to a SIP for certain Kaplan, Code3 and Decile employees, which was funded from the assets of the Company's pension plans. In the third quarter of 2020, the Company recorded \$7.8 million in expenses related to a SIP for certain Kaplan employees, which was funded from the assets of the Company's pension plans.

In the second quarter of 2019, the Company offered a SIP for certain Kaplan employees, which was funded from the assets of the Company's pension plans. The Company recorded \$6.4 million in expense related to the SIP for 2019.

The following table sets forth obligation, asset and funding information for the Company's defined benefit pension plans:

(in thousands)	Pension Plans	
	As of December 31	
	2021	2020
Change in Benefit Obligation		
Benefit obligation at beginning of year	\$ 1,095,117	\$ 1,020,356
Service cost	22,991	22,656
Interest cost	26,917	32,587
Amendments	2	69
Actuarial loss	5,660	78,900
Benefits paid	(63,510)	(73,232)
Special termination benefits	1,132	13,781
Benefit Obligation at End of Year	\$ 1,088,309	\$ 1,095,117
Change in Plan Assets		
Fair value of assets at beginning of year	\$ 2,803,422	\$ 2,312,706
Actual return on plan assets	654,911	563,948
Benefits paid	(63,510)	(73,232)
Fair Value of Assets at End of Year	\$ 3,394,823	\$ 2,803,422
Funded Status	\$ 2,306,514	\$ 1,708,305

(in thousands)	SERP	
	As of December 31	
	2021	2020
Change in Benefit Obligation		
Benefit obligation at beginning of year	\$ 122,299	\$ 116,193
Service cost	1,022	954
Interest cost	2,943	3,678
Actuarial (gain) loss	(7,640)	7,448
Benefits paid	(5,918)	(5,974)
Benefit Obligation at End of Year	\$ 112,706	\$ 122,299
Change in Plan Assets		
Fair value of assets at beginning of year	\$ —	\$ —
Employer contributions	5,918	5,974
Benefits paid	(5,918)	(5,974)
Fair Value of Assets at End of Year	\$ —	\$ —
Funded Status	\$ (112,706)	\$ (122,299)

The change in the Company's benefit obligations for the pension plans was primarily due to benefits paid during the year. The change in the benefit obligations for the Company's SERP was due to the recognition of an actuarial gain resulting from an increase to the discount rate used to measure the benefit obligation and benefits paid during the year.

The accumulated benefit obligation for the Company's pension plans at December 31, 2021 and 2020, was \$1,052.7 million and \$1,064.3 million, respectively. The accumulated benefit obligation for the Company's SERP at

December 31, 2021 and 2020, was \$112.2 million and \$121.7 million, respectively. The amounts recognized in the Company's Consolidated Balance Sheets for its defined benefit pension plans are as follows:

(in thousands)	Pension Plans				SERP	
	As of December 31		As of December 31			
	2021	2020	2021	2020		
Noncurrent asset	\$ 2,306,514	\$ 1,708,305	\$ —	\$ —		
Current liability	—	—	(6,334)	(6,495)		
Noncurrent liability	—	—	(106,372)	(115,804)		
Recognized Asset (Liability)	\$ 2,306,514	\$ 1,708,305	\$ (112,706)	\$ (122,299)		

Key assumptions utilized for determining the benefit obligation are as follows:

	Pension Plans		SERP	
	As of December 31		As of December 31	
	2021	2020	2021	2020
Discount rate	2.9%	2.5%	2.9%	2.5%
Rate of compensation increase – age graded	5.0%–1.0%	5.0%–1.0%	5.0%–1.0%	5.0%–1.0%
Cash balance interest crediting rate	1.41% with phase in to 2.90% in 2024	1.41% with phase in to 2.50% in 2023	—	—

The Company made no contributions to its pension plans in 2021 and 2020, and the Company does not expect to make any contributions in 2022. The Company made contributions to its SERP of \$5.9 million and \$6.0 million for the years ended December 31, 2021 and 2020, respectively. As the plan is unfunded, the Company makes contributions to the SERP based on actual benefit payments.

At December 31, 2021, future estimated benefit payments, excluding charges for early retirement programs, are as follows:

(in thousands)	Pension Plans		SERP	
	2021	2020	2021	2020
2022		\$ 61,330	\$ 6,425	
2023		61,487	6,706	
2024		62,710	6,897	
2025		63,299	7,029	
2026		63,102	7,118	
2027–2031		316,913	35,476	

The total (benefit) cost arising from the Company's defined benefit pension plans consists of the following components:

(in thousands)	Pension Plans		
	Year Ended December 31		
	2021	2020	2019
Service cost	\$ 22,991	\$ 22,656	\$ 20,422
Interest cost	26,917	32,587	46,821
Expected return on assets	(137,878)	(113,427)	(122,790)
Amortization of prior service cost	2,846	2,830	2,882
Recognized actuarial gain	(7,906)	—	—
Net Periodic Benefit for the Year	(93,030)	(55,354)	(52,665)
Settlement	—	—	(91,676)
Special separation benefit expense	1,132	13,781	6,432
Total Benefit for the Year	\$ (91,898)	\$ (41,573)	\$ (137,909)
Other Changes in Plan Assets and Benefit Obligations Recognized in Other Comprehensive Income			
Current year actuarial gain	\$ (511,373)	\$ (371,621)	\$ (245,402)
Current year prior service cost	2	69	5,725
Amortization of prior service cost	(2,846)	(2,830)	(2,882)
Recognized net actuarial gain	7,906	—	—
Curtailment and settlement	—	—	91,676
Total Recognized in Other Comprehensive Income (Before Tax Effects)	\$ (506,311)	\$ (374,382)	\$ (150,883)
Total Recognized in Total Benefit and Other Comprehensive Income (Before Tax Effects)	\$ (598,209)	\$ (415,955)	\$ (288,792)

	SERP		
	Year Ended December 31		
	2021	2020	2019
(in thousands)			
Service cost	\$ 1,022	\$ 954	\$ 858
Interest cost	2,943	3,678	4,314
Amortization of prior service cost	331	331	339
Recognized actuarial loss	5,930	5,267	2,314
Total Cost for the Year	\$ 10,226	\$ 10,230	\$ 7,825
Other Changes in Benefit Obligations Recognized in Other Comprehensive Income			
Current year actuarial (gain) loss	\$ (7,640)	\$ 7,448	\$ 15,544
Amortization of prior service cost	(331)	(331)	(339)
Recognized net actuarial loss	(5,930)	(5,267)	(2,314)
Total Recognized in Other Comprehensive Income (Before Tax Effects)	\$ (13,901)	\$ 1,850	\$ 12,891
Total Recognized in Total Cost and Other Comprehensive Income (Before Tax Effects)	\$ (3,675)	\$ 12,080	\$ 20,716

The costs for the Company's defined benefit pension plans are actuarially determined. Below are the key assumptions utilized to determine periodic cost:

	Pension Plans			SERP		
	Year Ended December 31			Year Ended December 31		
	2021	2020	2019	2021	2020	2019
Discount rate	2.5%	3.3%	4.3%	2.5%	3.3%	4.3%
Expected return on plan assets	6.25%	6.25%	6.25%	—	—	—
Rate of compensation increase – age graded	5.0%–1.0% 1.41% with phase in to 2.50% in 2023	5.0%–1.0% 2.77% with phase in to 3.30% in 2022	5.0%–1.0% 3.45% with phase in to 4.30% in 2021	5.0%–1.0%	5.0%–1.0%	5.0%–1.0%
Cash balance interest crediting rate	—	—	—	—	—	—

Accumulated other comprehensive income (AOCI) includes the following components of unrecognized net periodic cost for the defined benefit plans:

	Pension Plans		SERP	
	As of December 31		As of December 31	
	2021	2020	2021	2020
(in thousands)				
Unrecognized actuarial (gain) loss	\$ (1,342,623)	\$ (839,156)	\$ 19,111	\$ 32,681
Unrecognized prior service cost	4,511	7,355	36	367
Gross Amount	(1,338,112)	(831,801)	19,147	33,048
Deferred tax liability (asset)	355,078	224,586	(5,340)	(8,923)
Net Amount	\$ (983,034)	\$ (607,215)	\$ 13,807	\$ 24,125

Defined Benefit Plan Assets. The Company's defined benefit pension obligations are funded by a portfolio made up of private investment funds, a U.S. stock index fund, and a relatively small number of stocks and high-quality fixed-income securities that are held by a third-party trustee. The assets of the Company's pension plans were allocated as follows:

	As of December 31	
	2021	2020
U.S. equities	61 %	58 %
Private investment funds	17 %	18 %
U.S. stock index fund	9 %	9 %
International equities	9 %	8 %
U.S. fixed income	4 %	7 %
	100 %	100 %

The Company manages approximately 39% of the pension assets internally, of which the majority is invested in private investment funds with the remaining investments in Berkshire Hathaway stock, a U.S. stock index fund, and short-term fixed-income securities. The remaining 61% of plan assets are managed by two investment companies. The goal of the investment managers is to produce moderate long-term growth in the value of these assets, while protecting them against large decreases in value. Both investment managers may invest in a combination of equity and fixed-income securities and cash. The managers are not permitted to invest in securities of the Company or in alternative investments. One investment manager cannot invest more than 15% of the assets at the time of

purchase in the stock of Alphabet and Berkshire Hathaway, and no more than 30% of the assets it manages in specified international exchanges at the time the investment is made. The other investment manager cannot invest more than 20% of the assets at the time of purchase in the stock of Berkshire Hathaway, and no more than 15% of the assets it manages in specified international exchanges at the time the investment is made, and no less than 10% of the assets could be invested in fixed-income securities. Excluding the exceptions noted above, the investment managers cannot invest more than 10% of the assets in the securities of any other single issuer, except for obligations of the U.S. Government, without receiving prior approval from the Plan administrator.

In determining the expected rate of return on plan assets, the Company considers the relative weighting of plan assets, the historical performance of total plan assets and individual asset classes and economic and other indicators of future performance. In addition, the Company may consult with and consider the input of financial and other professionals in developing appropriate return benchmarks.

The Company evaluated its defined benefit pension plan asset portfolio for the existence of significant concentrations (defined as greater than 10% of plan assets) of credit risk as of December 31, 2021. Types of concentrations that were evaluated include, but are not limited to, investment concentrations in a single entity, type of industry, foreign country and individual fund. At December 31, 2021, the pension plan held investments in one common stock and one private investment fund that exceeded 10% of total plan assets, valued at \$998.8 million, or approximately 29% of total plan assets. At December 31, 2020, the pension plan held investments in one common stock and one private investment fund that exceeded 10% of total plan assets, valued at \$850.6 million, or approximately 30% of total plan assets.

The Company's pension plan assets measured at fair value on a recurring basis were as follows:

(in thousands)	As of December 31, 2021					Total
	Level 1	Level 2	Level 3			
Cash equivalents and other short-term investments	\$ 2,159	\$ 145,683	\$ —	—	—	\$ 147,842
Equity securities						
U.S. equities	2,067,152	—	—	—	—	2,067,152
International equities	301,640	—	—	—	—	301,640
Private investment funds	—	—	573,970	—	573,970	
U.S. stock index fund	—	—	302,478	—	302,478	
Total Investments	\$ 2,370,951	\$ 145,683	\$ 876,448	\$ 3,393,082		
Receivables, net						1,741
Total						\$ 3,394,823

(in thousands)	As of December 31, 2020					Total
	Level 1	Level 2	Level 3			
Cash equivalents and other short-term investments	\$ 2,218	\$ 197,655	\$ —	—	—	\$ 199,873
Equity securities						
U.S. equities	1,614,879	—	—	—	—	1,614,879
International equities	233,818	—	—	—	—	233,818
Private investment fund	—	—	496,458	—	496,458	
U.S. stock index fund	—	—	256,291	—	256,291	
Total Investments	\$ 1,850,915	\$ 197,655	\$ 752,749	\$ 2,801,319		
Receivables, net						2,103
Total						\$ 2,803,422

Cash equivalents and other short-term investments. These investments are primarily held in U.S. Treasury securities and registered money market funds. These investments are valued using a market approach based on the quoted market prices of the security or inputs that include quoted market prices for similar instruments and are classified as either Level 1 or Level 2 in the valuation hierarchy.

U.S. equities. These investments are held in common and preferred stock of U.S. corporations and American Depositary Receipts (ADRs) traded on U.S. exchanges. Common and preferred shares and ADRs are traded actively on exchanges, and price quotes for these shares are readily available. These investments are classified as Level 1 in the valuation hierarchy.

International equities. These investments are held in common and preferred stock issued by non-U.S. corporations. Common and preferred shares are traded actively on exchanges, and price quotes for these shares are readily available. These investments are classified as Level 1 in the valuation hierarchy.

Private investment funds. This category includes a commingled fund and a private investment fund. The commingled fund invests in a diversified mix of publicly-traded securities (U.S. and international stocks) and private companies. The private investment fund invests in non-public companies. These investment funds have restrictions that limit the Company's ability to liquidate its investments. The investment in the commingled fund may be redeemed in part, or in full, at the 60-month anniversary of the investment, or at any subsequent 36-month anniversary date following the initial 60-month anniversary. The investment in the private investment fund is generally not redeemable until the dissolution of the fund. The funds are valued using the net asset value (NAV) provided by the administrator of the funds and reviewed by the Company. The NAV is based on the value of the underlying assets owned by the fund, minus liabilities and divided by the number of units outstanding. These investments are classified as Level 3 in the valuation hierarchy.

U.S. stock index fund. This fund consists of investments held in a diversified mix of securities (U.S. and international stocks, and fixed-income securities) and a combination of other collective funds that together are designed to track the performance of the S&P 500 Index. The fund is valued using the NAV provided by the administrator of the fund and reviewed by the Company. The NAV is based on the value of the underlying assets owned by the fund, minus liabilities and divided by the number of units outstanding. The investment in this fund may be redeemed daily, subject to the restrictions of the fund. This investment is classified as Level 3 in the valuation hierarchy.

The following table provides a reconciliation of changes in pension assets measured at fair value on a recurring basis, using Level 3 inputs:

(in thousands)	Private Investment Funds	U.S. Stock Index Fund
As of December 31, 2019	\$ 151,854	\$ 322,229
Purchases, sales, and settlements, net	130,000	(100,000)
Actual return on plan assets:		
Losses relating to assets sold	—	(5,763)
Gains relating to assets still held at year-end	214,604	39,825
As of December 31, 2020	<u>496,458</u>	<u>256,291</u>
Purchases, sales, and settlements, net	3,912	(25,000)
Actual return on plan assets:		
Gains relating to assets sold	—	3,715
Gains relating to assets still held at year-end	73,600	67,472
As of December 31, 2021	<u>\$ 573,970</u>	<u>\$ 302,478</u>

Other Postretirement Plans. The following table sets forth obligation, asset and funding information for the Company's other postretirement plans:

(in thousands)	Postretirement Plans	
	As of December 31	
	2021	2020
Change in Benefit Obligation		
Benefit obligation at beginning of year	\$ 5,587	\$ 6,816
Interest cost	92	167
Actuarial gain	(582)	(991)
Benefits paid, net of Medicare subsidy	(375)	(405)
Benefit Obligation at End of Year	<u>\$ 4,722</u>	<u>\$ 5,587</u>
Change in Plan Assets		
Fair value of assets at beginning of year	\$ —	\$ —
Employer contributions	375	405
Benefits paid, net of Medicare subsidy	(375)	(405)
Fair Value of Assets at End of Year	<u>\$ —</u>	<u>\$ —</u>
Funded Status	<u>\$ (4,722)</u>	<u>\$ (5,587)</u>

The change in the benefit obligation for the Company's other postretirement plans was due to updated claims experience based on actual premium rates, the recognition of an actuarial gain resulting from an increase to the discount rate used to measure the benefit obligation, and benefits paid during the year.

The amounts recognized in the Company's Consolidated Balance Sheets for its other postretirement plans are as follows:

	Postretirement Plans	
	As of December 31	
(in thousands)	2021	2020
Current liability	\$ (671)	\$ (797)
Noncurrent liability	(4,051)	(4,790)
Recognized Liability	\$ (4,722)	\$ (5,587)

The discount rates utilized for determining the benefit obligation at December 31, 2021 and 2020, for the postretirement plans were 2.23% and 1.78%, respectively. The assumed healthcare cost trend rate used in measuring the postretirement benefit obligation at December 31, 2021, was 6.17% for pre-age 65, decreasing to 4.5% in the year 2032 and thereafter. The assumed healthcare cost trend rate used in measuring the postretirement benefit obligation at December 31, 2021, was 6.52% for post-age 65, decreasing to 4.5% in the year 2032 and thereafter. The assumed healthcare cost trend rate used in measuring the postretirement benefit obligation at December 31, 2021, was 8.00% for Medicare Advantage, decreasing to 4.5% in the year 2032 and thereafter.

The Company made contributions to its postretirement benefit plans of \$0.4 million for each of the years ended December 31, 2021 and 2020. As the plans are unfunded, the Company makes contributions to its postretirement plans based on actual benefit payments.

At December 31, 2021, future estimated benefit payments are as follows:

(in thousands)	Postretirement Plans		
	2022	2023	2024
2022	\$ 671	\$ 590	\$ 485
2023		\$ 393	\$ 335
2024			\$ 2,474
2025			
2026			
2027-2031			

The total benefit arising from the Company's other postretirement plans consists of the following components:

(in thousands)	Postretirement Plans		
	Year Ended December 31		
	2021	2020	2019
Interest cost	\$ 92	\$ 167	\$ 289
Amortization of prior service credit	(7)	(481)	(7,363)
Recognized actuarial gain	(3,510)	(4,048)	(4,360)
Net Periodic Benefit for the Year	(3,425)	(4,362)	(11,434)
Settlement	(120)	—	—
Total Benefit for the Year	\$ (3,545)	\$ (4,362)	\$ (11,434)
Other Changes in Benefit Obligations Recognized in Other Comprehensive Income			
Current year actuarial gain	\$ (582)	\$ (991)	\$ (1,246)
Amortization of prior service credit	7	481	7,363
Recognized actuarial gain	3,510	4,048	4,360
Settlement	120	—	—
Total Recognized in Other Comprehensive Income (Before Tax Effects)	\$ 3,055	\$ 3,538	\$ 10,477
Total Recognized in Benefit and Other Comprehensive Income (Before Tax Effects)	\$ (490)	\$ (824)	\$ (957)

The costs for the Company's postretirement plans are actuarially determined. The discount rate utilized to determine periodic cost for the years ended December 31, 2021, 2020 and 2019 were 1.78%, 2.68% and 3.69%. AOCI included the following components of unrecognized net periodic benefit for the postretirement plans:

(in thousands)	As of December 31	
	2021	2020
Unrecognized actuarial gain	\$ (13,642)	\$ (16,690)
Unrecognized prior service credit	(12)	(19)
Gross Amount	(13,654)	(16,709)
Deferred tax liability	3,724	4,512
Net Amount	\$ (9,930)	\$ (12,197)

Multiemployer Pension Plans. In 2021, 2020 and 2019, the Company contributed to one multiemployer defined benefit pension plan under the terms of a collective-bargaining agreement that covered certain union-represented employees. The Company's total contributions to the multiemployer pension plan amounted to \$0.1 million in each year for 2021, 2020 and 2019.

Savings Plans. The Company recorded expense associated with retirement benefits provided under incentive savings plans (primarily 401(k) plans) of approximately \$10.9 million in 2021, \$8.8 million in 2020 and \$9.8 million in 2019.

16. OTHER NON-OPERATING INCOME

A summary of non-operating income is as follows:

(in thousands)	Year Ended December 31		
	2021	2020	2019
Net gain on cost method investments	\$ 11,756	\$ 4,209	\$ 5,080
Gain on sale of cost method investments	9,355	1,039	267
Net gain (loss) on sale of businesses	3,789	213,302	(564)
Foreign currency loss, net	(179)	(2,153)	(1,070)
Impairment of cost method investments	—	(7,327)	—
Gain on acquiring a controlling interest in an equity affiliate	—	3,708	—
Gain on sale of equity affiliates	—	1,370	28,994
Other, net	7,833	386	(276)
Total Other Non-Operating Income	\$ 32,554	\$ 214,534	\$ 32,431

The gains on cost method investments result from observable price changes in the fair value of the underlying equity securities accounted for under the cost method (see Notes 4 and 12).

For the years ended December 31, 2021, 2020 and 2019, the Company recorded contingent consideration gains of \$3.9 million, \$3.5 million and \$1.4 million, respectively, related to the disposition of Kaplan University (KU) in 2018.

In the second quarter of 2020, the Company made an additional investment in Framebridge (see Notes 3 and 4) that resulted in the Company obtaining control of the investee. The Company remeasured its previously held equity interest in Framebridge at the acquisition-date fair value and recorded a gain of \$3.7 million. The fair value was determined using a market approach by using the share value indicated in the transaction.

In the fourth quarter of 2020, the Company recorded a \$209.8 million gain on the sale of Megaphone.

In the first quarter of 2019, the Company recorded a \$29.0 million gain on the sale of the Company's interest in Gimlet Media.

17. ACCUMULATED OTHER COMPREHENSIVE INCOME (LOSS)

The other comprehensive income (loss) consists of the following components:

(in thousands)	Year Ended December 31, 2021		
	Before-Tax Amount	Income Tax	After-Tax Amount
Foreign currency translation adjustments:			
Translation adjustments arising during the year	\$ (16,052)	\$ —	\$ (16,052)
Pension and other postretirement plans:			
Actuarial gain	519,595	(133,915)	385,680
Prior service cost	(2)	1	(1)
Amortization of net actuarial gain included in net income	(5,486)	1,414	(4,072)
Amortization of net prior service cost included in net income	3,170	(817)	2,353
Settlement included in net income	(120)	30	(90)
	517,157	(133,287)	383,870
Cash flow hedge:			
Gain for the year	349	(93)	256
Other Comprehensive Income	\$ 501,454	\$ (133,380)	\$ 368,074
(in thousands)	Year Ended December 31, 2020		
	Before-Tax Amount	Income Tax	After-Tax Amount
Foreign currency translation adjustments:			
Translation adjustments arising during the year	\$ 31,642	\$ —	\$ 31,642
Pension and other postretirement plans:			
Actuarial gain	365,164	(98,594)	266,570
Prior service cost	(69)	19	(50)
Amortization of net actuarial loss included in net income	1,219	(329)	890
Amortization of net prior service cost included in net income	2,680	(724)	1,956
	368,994	(99,628)	269,366
Cash flow hedges:			
Loss for the year	(1,282)	293	(989)
Other Comprehensive Income	\$ 399,354	\$ (99,335)	\$ 300,019
(in thousands)	Year Ended December 31, 2019		
	Before-Tax Amount	Income Tax	After-Tax Amount
Foreign currency translation adjustments:			
Translation adjustments arising during the year	\$ 5,371	\$ —	\$ 5,371
Adjustment for sale of a business with foreign operations	2,011	—	2,011
	7,382	—	7,382
Pension and other postretirement plans:			
Actuarial gain	231,104	(62,398)	168,706
Prior service cost	(5,725)	1,546	(4,179)
Amortization of net actuarial gain included in net income	(2,046)	552	(1,494)
Amortization of net prior service credit included in net income	(4,142)	1,118	(3,024)
Settlement included in net income	(91,676)	24,752	(66,924)
	127,515	(34,430)	93,085
Cash flow hedges:			
Loss for the year	(1,344)	343	(1,001)
Other Comprehensive Income	\$ 133,553	\$ (34,087)	\$ 99,466

The accumulated balances related to each component of other comprehensive income (loss) are as follows:

(in thousands, net of taxes)	Cumulative Foreign Currency Translation Adjustment	Unrealized Gain on Pensions and Other Postretirement Plans	Cash Flow Hedges	Accumulated Other Comprehensive Income
As of December 31, 2019	\$ (21,888)	\$ 325,921	\$ (738)	\$ 303,295
Other comprehensive income (loss) before reclassifications	31,642	266,520	(1,476)	296,686
Net amount reclassified from accumulated other comprehensive income	—	2,846	487	3,333
Net other comprehensive income (loss)	31,642	269,366	(989)	300,019
As of December 31, 2020	9,754	595,287	(1,727)	603,314
Other comprehensive income (loss) before reclassifications	(16,052)	385,679	(375)	369,252
Net amount reclassified from accumulated other comprehensive income	—	(1,809)	631	(1,178)
Net other comprehensive income (loss)	(16,052)	383,870	256	368,074
As of December 31, 2021	\$ (6,298)	\$ 979,157	\$ (1,471)	\$ 971,388

The amounts and line items of reclassifications out of Accumulated Other Comprehensive Income (Loss) are as follows:

(in thousands)	Year Ended December 31			Affected Line Item in the Consolidated Statements of Operations
	2021	2020	2019	
Foreign Currency Translation Adjustments:				
Adjustment for sales of businesses with foreign operations	\$ —	\$ —	\$ 2,011	Other income, net
Pension and Other Postretirement Plans:				
Amortization of net actuarial (gain) loss	(5,486)	1,219	(2,046)	(1)
Amortization of net prior service cost (credit)	3,170	2,680	(4,142)	(1)
Settlement gains	(120)	—	(91,676)	(1)
	(2,436)	3,899	(97,864)	Before tax
	627	(1,053)	26,422	Provision for income taxes
	(1,809)	2,846	(71,442)	Net of tax
Cash Flow Hedges				
	631	474	(146)	Interest expense
	—	13	51	Provision for income taxes
	631	487	(95)	Net of tax
Total reclassification for the year	\$ (1,178)	\$ 3,333	\$ (69,526)	Net of tax

(1) These accumulated other comprehensive income components are included in the computation of net periodic pension and postretirement plan cost (see Note 15) and are included in non-operating pension and postretirement benefit income in the Company's Consolidated Statements of Operations.

18. CONTINGENCIES AND OTHER COMMITMENTS

Litigation, Legal and Other Matters. The Company and its subsidiaries are subject to complaints and administrative proceedings and are defendants in various civil lawsuits that have arisen in the ordinary course of their businesses, including contract disputes; actions alleging negligence, libel, defamation and invasion of privacy; trademark, copyright and patent infringement; violations of employment laws and applicable wage and hour laws; and statutory or common law claims involving current and former students and employees. Although the outcomes of the legal claims and proceedings against the Company cannot be predicted with certainty, based on currently available information, management believes that there are no existing claims or proceedings that are likely to have a material effect on the Company's business, financial condition, results of operations or cash flows. However, based on currently available information, management believes it is reasonably possible that future losses from existing and threatened legal, regulatory and other proceedings in excess of the amounts recorded could reach approximately \$15 million.

In 2015, Kaplan sold substantially all of the assets of the KHEC business to Education Corporation of America. In 2018, certain subsidiaries of Kaplan contributed the institutional assets and operations of KU to a new university: an Indiana nonprofit, public-benefit corporation affiliated with Purdue University, known as Purdue University Global. Kaplan could be held liable to the current owners of KU and the KHEC schools related to the pre-sale conduct of the schools, and the pre-sale conduct of the schools has been and could be the subject of future compliance reviews, regulatory proceedings or lawsuits that could result in monetary liabilities or fines or other sanctions. On May 6, 2021, Kaplan received a notice from the Department of Education (ED) that it would be conducting a fact-finding

process pursuant to the borrower defense to repayment (BDTR) regulations to determine the validity of more than 800 BDTR claims and a request for documents related to several of Kaplan's previously owned schools. Beginning in July 2021, Kaplan started receiving the claims and related information requests. In total, Kaplan received 1,449 borrower defense applications that seek discharge of approximately \$35 million in loans. Most claims received are from former KU students. The ED's process for adjudicating these claims is subject to the borrower defense regulations but it is not clear to what extent the ED will exclude claims based on the underlying statutes of limitations, evidence provided by Kaplan, or any prior investigation related to schools attended by the student applicants. Kaplan believes it has defenses that would bar any student discharge or school liability including that the claims are barred by the applicable statute of limitations, unproven, incomplete and fail to meet regulatory filing requirements. Kaplan expects to vigorously defend any attempt by the ED to hold Kaplan liable for any ultimate student discharges and is responding to all claims with documentary and narrative evidence to refute the allegations, demonstrate their lack of merit, and support the denial of all such claims by the ED. If the claims are successful, the ED may seek reimbursement for the amount discharged from Kaplan. If the ED initiates a reimbursement action against Kaplan following approval of former students' BDTR applications, Kaplan may be subject to significant liability.

In June 2021, the Committee for Private Education (CPE) in Singapore instructed Kaplan Singapore to cease new enrollments for three marketing diploma programs on both a full and part-time basis due to noncompliance with minimum entry level requirements for admission and to teach out existing students in these programs. On August 23, 2021, the CPE issued the same instructions with respect to the Kaplan Foundation diploma and four information technology diploma programs on both a full and part-time basis. In November 2021, the CPE issued the same instructions with respect to a further 23 full-time or part-time diploma programs. Post regulatory action, Kaplan Singapore is currently still able to offer 449 programs that are registered with the CPE, out of which there are 16 diplomas, 361 bachelors and the balance of which are certificate and postgraduate courses. Kaplan Singapore will apply for re-registration of diploma programs in 2022. The impact from regulatory actions by the CPE will have a significant adverse impact on Kaplan Singapore's revenues, operating results and cash flows in the future. No assurance can be given that applications for re-registration of the impacted programs will be successful. An inability to re-register one or more impacted programs could have a further material adverse effect on Kaplan Singapore's revenues, operating results and cash flows.

Other Commitments. The Company's broadcast subsidiaries are parties to certain agreements that commit them to purchase programming to be produced in future years. At December 31, 2021, such commitments amounted to approximately \$14.2 million. If such programs are not produced, the Company's commitment would expire without obligation.

19. BUSINESS SEGMENTS

Basis of Presentation. The Company's organizational structure is based on a number of factors that management uses to evaluate, view and run its business operations, which include, but are not limited to, customers, the nature of products and services and use of resources. The business segments disclosed in the Consolidated Financial Statements are based on this organizational structure and information reviewed by the Company's management to evaluate the business segment results.

To meet the quantitative threshold related to revenue required for separate disclosure, the Company changed the presentation of its segments in the third quarter of 2021 into the following seven reportable segments: Kaplan International, Kaplan Higher Education, Kaplan Supplemental Education, Television Broadcasting, Manufacturing, Healthcare and Automotive. Segment operating results have been restated to reflect this change.

The Company evaluates segment performance based on operating income before amortization of intangible assets and impairment of goodwill and other long-lived assets. The accounting policies at the segments are the same as described in Note 2. In computing operating income before amortization by segment, the effects of amortization of intangible assets, impairment of goodwill and other long-lived assets, equity in earnings (losses) of affiliates, interest income, interest expense, non-operating pension and postretirement benefit income, other non-operating income and expense items and income taxes are excluded. Intersegment sales are not material.

Identifiable assets by segment are those assets used in the Company's operations in each business segment. The investments in marketable equity securities and affiliates, and prepaid pension cost are not included in identifiable assets by segment. Investments in marketable equity securities are discussed in Note 4.

Education. Education products and services are provided by Kaplan, Inc. Kaplan International includes professional training and postsecondary education businesses largely outside the U.S., as well as English-language programs. KHE includes the results as a service provider to higher education institutions. Supplemental Education includes Kaplan's standardized test preparation, domestic professional and other continuing education businesses.

As of December 31, 2021, Kaplan had a total outstanding accounts receivable balance of \$97.4 million from Purdue Global related to amounts due for reimbursements for services, fees earned and a deferred fee. Included in this

total, Kaplan has a \$19.2 million long-term receivable balance due from Purdue Global at December 31, 2021, related to the advance of \$20.0 million during the initial KU Transaction.

Television Broadcasting. Television broadcasting operations are conducted through seven television stations serving the Detroit, Houston, San Antonio, Orlando, Jacksonville and Roanoke television markets. All stations are network-affiliated (except for WJXT in Jacksonville), with revenues derived primarily from sales of advertising time. In addition, the stations generate revenue from retransmission consent agreements for the right to carry their signals.

Manufacturing. Manufacturing operations include Hoover, a Thomson, GA-based supplier of pressure impregnated kiln-dried lumber and plywood products for fire retardant and preservative application; Dekko, a Garrett, IN-based manufacturer of electrical workspace solutions, architectural lighting, and electrical components and assemblies; Joyce/Dayton Corp., a Dayton, OH-based manufacturer of screw jacks and other linear motion systems; and Forney, a global supplier of products and systems that control and monitor combustion processes in electric utility and industrial applications.

Healthcare. Graham Healthcare Group provides home health, hospice and palliative services. GHG also provides other healthcare services, including nursing care and prescription services for patients receiving in-home infusion treatments.

Automotive. Automotive includes four automotive dealerships in the Washington, D.C. metropolitan area, including Lexus of Rockville, Honda of Tysons Corner, Jeep of Bethesda and Ford of Manassas, which was acquired in December 2021.

Other Businesses. Other businesses includes the following:

- Leaf Group, a consumer internet company, which was acquired in June 2021.
- Clyde's Restaurant Group owns and operates eleven restaurants and entertainment venues in the Washington, D.C. metropolitan area.
- Code3 is a marketing and insights company that manages digital advertising campaigns.
- Framebridge, a custom framing service company, which was acquired in May 2020.
- The Slate Group and Foreign Policy Group, which publish online and print magazines and websites; and four investment stage businesses, CyberVista, Decile, Pinna and City Cast. Other businesses also includes Megaphone, which was sold in December 2020.

Corporate Office. Corporate office includes the expenses of the Company's corporate office, defined benefit pension expense, and certain continuing obligations related to prior business dispositions.

Geographical Information. The Company's non-U.S. revenues in 2021, 2020 and 2019 totaled approximately \$709 million, \$642 million and \$691 million, respectively, primarily from Kaplan's operations outside the U.S. Additionally, revenues in 2021, 2020 and 2019 totaled approximately \$404 million, \$375 million, and \$384 million, respectively, from Kaplan's operations in the U.K. The Company's long-lived assets in non-U.S. countries (excluding goodwill and other intangible assets), totaled approximately \$476 million and \$442 million at December 31, 2021 and 2020, respectively.

Restructuring. During 2020, Kaplan developed and implemented a number of initiatives across its businesses to help mitigate the negative revenue impact arising from COVID-19 and to re-align its program offerings to better pursue opportunities from the disruption. These initiatives include employee salary and work-hour reductions; temporary furlough and other employee reductions; reduced discretionary spending; facility restructuring to reduce its classroom and office facilities; reduced capital expenditures; and accelerated development and promotion of various online programs and solutions.

In 2020, Kaplan recorded restructuring costs related to severance, the exit of classroom and office facilities, and approved Separation Incentive Programs that reduced the number of employees at all of Kaplan's divisions.

In 2020, Code3 and Decile recorded restructuring costs in connection with a restructuring plan that included the exit of an office facility, an approved Separation Incentive Program to reduce the number of employees, and other cost reduction initiatives to mitigate the adverse impact of COVID-19 on advertising demand.

Restructuring related costs across all businesses in 2020 were recorded as follows:

(in thousands)	Kaplan International	Higher Education	Supplemental Education	Kaplan Corporate	Total Education	Other Businesses	Total
Severance	\$ 4,366	\$ —	\$ 1,797	\$ —	\$ 6,163	\$ —	\$ 6,163
Facility related costs:							
Operating lease cost	2,905	3,451	3,586	—	9,942	—	9,942
Accelerated depreciation of property, plant and equipment	1,620	152	1,801	—	3,573	—	3,573
Total Restructuring Costs Included in Segment Income (Loss) from Operations ⁽¹⁾	\$ 8,891	\$ 3,603	\$ 7,184	\$ —	\$ 19,678	\$ —	\$ 19,678
Impairment of other long-lived assets:							
Lease right-of-use assets	\$ 3,976	\$ 2,062	\$ 4,005	\$ —	\$ 10,043	\$ 1,405	\$ 11,448
Property, plant and equipment	1,248	174	813	—	2,235	86	2,321
Non-operating pension and postretirement benefit income, net	1,100	2,233	8,566	883	12,782	999	13,781
Total Restructuring Related Costs	\$ 15,215	\$ 8,072	\$ 20,568	\$ 883	\$ 44,738	\$ 2,490	\$ 47,228

(1) These amounts are included in the segments' Income (Loss) from Operations before Amortization of Intangible Assets and Impairment of Goodwill and Other Long-Lived Assets.

Total accrued restructuring costs at Kaplan were \$1.2 million and \$4.7 million as of December 31, 2021 and 2020, respectively.

In June 2020, CRG made the decision to close its restaurant and entertainment venue in Columbia, MD effective July 19, 2020 and recorded accelerated depreciation of property, plant and equipment totaling \$5.7 million for the year ended December 31, 2020.

Company information broken down by operating segment and education division:

(in thousands)	Year Ended December 31		
	2021	2020	2019
Operating Revenues			
Education	\$ 1,361,245	\$ 1,305,713	\$ 1,451,750
Television broadcasting	494,177	525,212	463,464
Manufacturing	458,125	416,137	449,053
Healthcare	223,030	198,196	161,768
Automotive	327,069	258,144	236,319
Other businesses	324,353	187,347	170,412
Corporate office	—	—	—
Intersegment elimination	(2,025)	(1,628)	(667)
	\$ 3,185,974	\$ 2,889,121	\$ 2,932,099
Income (Loss) from Operations before Amortization of Intangible Assets and Impairment of Goodwill and Other Long-Lived Assets			
Education	\$ 69,892	\$ 41,056	\$ 63,680
Television broadcasting	154,862	199,938	166,076
Manufacturing	36,926	40,427	46,809
Healthcare	29,912	30,327	14,319
Automotive	11,771	502	531
Other businesses	(76,153)	(72,915)	(33,317)
Corporate office	(59,025)	(51,978)	(51,157)
	\$ 168,185	\$ 187,357	\$ 206,941
Amortization of Intangible Assets and Impairment of Goodwill and Other Long-Lived Assets			
Education	\$ 19,319	\$ 29,452	\$ 15,608
Television broadcasting	5,440	5,440	13,408
Manufacturing	52,974	28,099	26,342
Healthcare	3,106	4,220	6,411
Automotive	—	6,698	—
Other businesses	9,971	13,041	626
Corporate office	—	—	—
	\$ 90,810	\$ 86,950	\$ 62,395
Income (Loss) from Operations			
Education	\$ 50,573	\$ 11,604	\$ 48,072
Television broadcasting	149,422	194,498	152,668
Manufacturing	(16,048)	12,328	20,467
Healthcare	26,806	26,107	7,908
Automotive	11,771	(6,196)	531
Other businesses	(86,124)	(85,956)	(33,943)
Corporate office	(59,025)	(51,978)	(51,157)
	\$ 77,375	\$ 100,407	\$ 144,546
Equity in Earnings of Affiliates, Net			
Interest Expense, Net	17,914	6,664	11,664
Non-Operating Pension and Postretirement Benefit Income, Net	(30,534)	(34,439)	(23,628)
Gain on Marketable Equity Securities, net	109,230	59,315	162,798
Other Income, Net	243,088	60,787	98,668
Income Before Income Taxes	32,554	214,534	32,431
	\$ 449,627	\$ 407,268	\$ 426,479

(in thousands)	Year Ended December 31		
	2021	2020	2019
Depreciation of Property, Plant and Equipment			
Education	\$ 32,113	\$ 31,759	\$ 25,655
Television broadcasting	14,018	13,830	12,817
Manufacturing	9,808	10,333	10,036
Healthcare	1,313	1,665	2,314
Automotive	2,156	2,017	2,180
Other businesses	11,376	13,947	5,376
Corporate office	631	706	875
	\$ 71,415	\$ 74,257	\$ 59,253
Pension Service Cost			
Education	\$ 9,357	\$ 10,024	\$ 10,385
Television broadcasting	3,575	3,263	3,025
Manufacturing	1,282	1,424	80
Healthcare	561	543	492
Automotive	—	—	—
Other businesses	1,755	1,698	1,640
Corporate office	6,461	5,704	4,800
	\$ 22,991	\$ 22,656	\$ 20,422
Capital Expenditures			
Education	\$ 100,780	\$ 33,553	\$ 57,246
Television broadcasting	6,803	13,470	19,362
Manufacturing	7,190	8,034	11,218
Healthcare	3,671	2,481	2,303
Automotive	31,124	3,181	1,402
Other businesses	13,176	5,075	2,301
Corporate office	25	80	115
	\$ 162,769	\$ 65,874	\$ 93,947

Asset information for the Company's business segments is as follows:

(in thousands)	As of December 31	
	2021	2020
Identifiable Assets		
Education	\$ 2,026,782	\$ 1,975,104
Television broadcasting	448,627	453,988
Manufacturing	486,304	551,611
Healthcare	194,823	160,654
Automotive	238,200	151,789
Other businesses	689,872	365,744
Corporate office	68,962	348,045
	\$ 4,153,570	\$ 4,006,935
Investments in Marketable Equity Securities		
Investments in Affiliates		
Prepaid Pension Cost		
Total Assets	\$ 7,425,525	\$ 6,444,119

The Company's education division comprises the following operating segments:

(in thousands)	Year Ended December 31		
	2021	2020	2019
Operating Revenues			
Kaplan international	\$ 726,875	\$ 653,892	\$ 750,245
Higher education	317,854	316,095	305,672
Supplemental education	309,069	327,087	388,814
Kaplan corporate and other	14,759	12,643	9,480
Intersegment elimination	(7,312)	(4,004)	(2,461)
	\$ 1,361,245	\$ 1,305,713	\$ 1,451,750
Income (Loss) from Operations before Amortization of Intangible Assets and Impairment of Long-Lived Assets			
Kaplan international	\$ 33,457	\$ 15,248	\$ 42,129
Higher education	24,134	24,364	13,960
Supplemental education	36,919	19,705	34,487
Kaplan corporate and other	(24,715)	(18,266)	(26,891)
Intersegment elimination	97	5	(5)
	\$ 69,892	\$ 41,056	\$ 63,680
Amortization of Intangible Assets			
Impairment of Long-Lived Assets			
Income (Loss) from Operations			
Kaplan international	\$ 33,457	\$ 15,248	\$ 42,129
Higher education	24,134	24,364	13,960
Supplemental education	36,919	19,705	34,487
Kaplan corporate and other	(44,034)	(47,718)	(42,499)
Intersegment elimination	97	5	(5)
	\$ 50,573	\$ 11,604	\$ 48,072
Depreciation of Property, Plant and Equipment			
Kaplan international	\$ 21,472	\$ 19,562	\$ 15,394
Higher education	3,658	3,082	2,883
Supplemental education	6,544	8,724	7,132
Kaplan corporate and other	439	391	246
	\$ 32,113	\$ 31,759	\$ 25,655
Pension Service Cost			
Kaplan international	\$ 291	\$ 433	\$ 454
Higher education	4,440	4,150	4,535
Supplemental education	3,814	4,207	4,734
Kaplan corporate and other	812	1,234	662
	\$ 9,357	\$ 10,024	\$ 10,385
Capital Expenditures			
Kaplan international	\$ 92,532	\$ 24,085	\$ 48,362
Higher education	3,629	3,234	3,463
Supplemental education	4,297	6,030	5,362
Kaplan corporate and other	322	204	59
	\$ 100,780	\$ 33,553	\$ 57,246

Asset information for the Company's education division is as follows:

(in thousands)	As of December 31	
	2021	2020
Identifiable Assets		
Kaplan international	\$ 1,493,868	\$ 1,455,722
Higher education	187,789	187,123
Supplemental education	286,877	274,687
Kaplan corporate and other	58,248	57,572
	\$ 2,026,782	\$ 1,975,104

EXECUTION VERSION

SECOND SUPPLEMENTAL INDENTURE

Second Supplemental Indenture (this “*Supplemental Indenture*”), dated as of January 6, 2022, among Graham Automotive LLC, a Delaware limited liability company (the “*Guaranteeing Subsidiary*”), a subsidiary of Graham Holdings Company, a Delaware corporation (the “*Company*”), and The Bank of New York Mellon Trust Company, N.A., as trustee (the “*Trustee*”).

W I T N E S S E T H

WHEREAS, each of the Company and the Subsidiary Guarantors (as defined in the Indenture referred to below) has heretofore executed and delivered to the Trustee an indenture (the “*Indenture*”), dated as of May 30, 2018 providing for the issuance of an unlimited aggregate principal amount of 5.750% Senior Notes due 2026 (the “*Notes*”);

WHEREAS, the Indenture provides that under certain circumstances the Guaranteeing Subsidiary shall execute and deliver to the Trustee a supplemental indenture pursuant to which the Guaranteeing Subsidiary shall unconditionally Guarantee all of the Company’s Obligations under the Notes and the Indenture on the terms and conditions set forth herein and under the Indenture; and

WHEREAS, pursuant to Section 9.01 of the Indenture, the Trustee is authorized to execute and deliver this Supplemental Indenture.

NOW THEREFORE, in consideration of the foregoing and for other good and valuable consideration, the receipt of which is hereby acknowledged, the parties mutually covenant and agree for the equal and ratable benefit of the Holders as follows:

1. **Capitalized Terms.** Capitalized terms used herein without definition shall have the meanings assigned to them in the Indenture.

2. **Subsidiary Guarantor.** The Guaranteeing Subsidiary hereby agrees to be a Subsidiary Guarantor under the Indenture and to be bound by the terms of the Indenture applicable to Subsidiary Guarantors, including Article 10 thereof.

3. **Governing Law.** THIS SUPPLEMENTAL INDENTURE WILL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK.

4. **Waiver of Jury Trial.** EACH OF THE GUARANTEEING SUBSIDIARY AND THE TRUSTEE HEREBY IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY AND ALL RIGHT TO TRIAL BY JURY IN ANY LEGAL PROCEEDING ARISING OUT OF OR RELATING TO THIS SUPPLEMENTAL INDENTURE, THE INDENTURE, THE NOTES, THE SUBSIDIARY GUARANTEES OR THE TRANSACTIONS CONTEMPLATED HEREBY OR THEREBY.

5. **Counterparts.** The parties may sign any number of copies of this Supplemental Indenture. Each signed copy shall be an original, but all of them together represent the same agreement.

6. **Headings.** The headings of the Sections of this Supplemental Indenture have been inserted for convenience of reference only, are not to be considered a part of this Supplemental Indenture and shall in no way modify or restrict any of the terms or provisions hereof.

[Signature pages follow]

IN WITNESS WHEREOF, the parties hereto have caused this Supplemental Indenture to be duly executed, all as of the date first above written.

GRAHAM AUTOMOTIVE LLC

By: GRAHAM HOLDINGS COMPANY,
 its Sole Member
 /s/ Jacob Maas

Name: Jacob Maas
Title: Senior Vice President – Planning and
 Development

[Supplemental Indenture – Graham Automotive LLC]

THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., as Trustee

By: /s/ Ann Dolezal
Name: Ann Dolezal
Title: Vice President

[Supplemental Indenture – Graham Automotive LLC]

FIRST AMENDMENT TO AMENDED AND RESTATED FIVE YEAR CREDIT AGREEMENT

THIS FIRST AMENDMENT TO AMENDED AND RESTATED FIVE YEAR CREDIT AGREEMENT (this “Amendment”), dated as of November 23, 2021, is by and among **GRAHAM HOLDINGS COMPANY**, a Delaware corporation (the “Borrower”), the Foreign Borrowers party hereto, the Guarantors party hereto, the Lenders party hereto and **WELLS FARGO BANK, NATIONAL ASSOCIATION**, as administrative agent on behalf of the Lenders (in such capacity, “Administrative Agent”). Capitalized terms used herein and not otherwise defined herein shall have the meanings ascribed thereto in the Credit Agreement.

W I T N E S S E T H

WHEREAS, the Borrower, certain banks and financial institutions from time to time party thereto (the “Lenders”) and Administrative Agent are parties to that certain Credit Agreement, dated as of May 30, 2018 (as amended, modified, extended, restated, replaced, or supplemented from time to time, the “Credit Agreement”);

WHEREAS, the Credit Parties have requested that the Lenders amend certain provisions of the Credit Agreement; and

WHEREAS, the Lenders are willing to make such amendments to the Credit Agreement, in accordance with and subject to the terms and conditions set forth herein.

NOW, THEREFORE, in consideration of the agreements hereinafter set forth, and for other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the parties hereto agree as follows:

ARTICLE I **AMENDMENTS TO CREDIT AGREEMENT**

1.1 In reliance on the representations, warranties, covenants and agreements contained in this Amendment, and subject to the satisfaction of the conditions to effectiveness set forth in Article II hereof, the parties hereto agree that, effective as of the First Amendment Effective Date (as defined below), the Credit Agreement is hereby amended to delete the stricken text (indicated textually in the same manner as the following example: stricken text) and to add the underlined text (indicated textually in the same manner as the following example: underlined text) as set forth in the Credit Agreement attached hereto as Exhibit A.

1.2 Exhibits. Exhibits B-1, B-2 and F to the Credit Agreement are hereby amended and restated in their entirety in the forms set out on Exhibit B hereto.

ARTICLE II **CONDITIONS TO EFFECTIVENESS**

2.1 Closing Conditions. This Amendment shall become effective as of the day and year set forth above (the “First Amendment Effective Date”) upon satisfaction (or waiver) of the following conditions:

- (a) Executed Amendment. Administrative Agent shall have received a copy of this Amendment duly executed by each of the Credit Parties, the Lenders and Administrative Agent.
- (b) [Reserved].
- (c) No Default. No Default or Event of Default exists as of the First Amendment Effective Date and after giving effect to the transactions contemplated hereby.

(d) **Representations and Warranties.** The representations and warranties contained in Section 4.01 of the Credit Agreement are true and correct in all material respects on and as of the First Amendment Effective Date, except to the extent any such representation and warranty is qualified by materiality or reference to Material Adverse Effect, in which case, such representation and warranty shall be true and correct in all respects, on the First Amendment Effective Date with the same effect as if made on and as of such date (except for any such representation and warranty that by its terms is made only as of an earlier date, which representation and warranty shall remain true and correct as of such earlier date).

(e) **Fees and Expenses.** Administrative Agent shall have received from the Borrower such fees and expenses that are payable in connection with this Amendment and King & Spalding LLP shall have received from the Borrower payment of all outstanding fees and expenses previously incurred and all fees and expenses incurred in connection with this Amendment.

ARTICLE III MISCELLANEOUS

3.1 Amended Terms. On and after the First Amendment Effective Date, all references to the Credit Agreement in each of the Loan Documents shall hereafter mean the Credit Agreement as amended by this Amendment. Except as specifically amended hereby or otherwise agreed, the Credit Agreement is hereby ratified and confirmed and shall remain in full force and effect according to its terms.

3.2 Representations and Warranties of Credit Parties. Each of the Credit Parties represents and warrants as follows:

(a) It has taken all necessary corporate and other organizational action to authorize the execution, delivery and performance of this Amendment.

(b) This Amendment has been duly executed and delivered by such Person and constitutes such Person's legal, valid and binding obligation, enforceable in accordance with its terms, except as such enforceability may be subject to (i) bankruptcy, insolvency, reorganization, fraudulent conveyance or transfer, moratorium or similar laws affecting creditors' rights generally and (ii) general principles of equity (regardless of whether such enforceability is considered in a proceeding at law or in equity).

(c) [Reserved].

(d) The representations and warranties set forth in Section 4.01 of the Credit Agreement are true and correct in all material respects, except to the extent any such representation and warranty is qualified by materiality or reference to Material Adverse Effect, in which case, such representation and warranty shall be true and correct in all respects, on and as of the date hereof (except for any such representation and warranty that by its terms is made only as of an earlier date, which representation and warranty shall remain true and correct as of such earlier date).

(e) After giving effect to this Amendment, no event has occurred and is continuing which constitutes a Default or an Event of Default.

3.3 Reaffirmation of Obligations. Each Credit Party hereby ratifies the Credit Agreement as amended by this Amendment and acknowledges and reaffirms (a) that it is bound by all terms of the Credit Agreement as so amended applicable to it and (b) that it is responsible for the observance and full performance of its respective obligations under the Credit Agreement and the other Loan Documents. Each Credit Party further ratifies and confirms the terms of the Guaranty of such Credit Party with respect to the indebtedness now or hereafter outstanding under the Credit Agreement as amended hereby. Each Credit Party acknowledges that, notwithstanding anything to the contrary contained herein or in any other Loan Document, or any actions now or hereafter taken by the Lenders with respect to any obligation of Borrowers, the Guaranty of such Credit Party (i) is and shall continue to be a primary obligation of such Credit Party, (ii) is and shall continue to be an absolute, unconditional, continuing and irrevocable

guaranty of payment, and (iii) is and shall continue to be in full force and effect in accordance with its terms. Nothing contained herein to the contrary shall release, discharge, modify, change or affect the original liability of any Credit Party under the Guaranty of such Credit Party.

3.4 Loan Document. This Amendment shall constitute a Loan Document under the terms of the Credit Agreement.

3.5 Further Assurances. The Credit Parties agree to promptly take such action, upon the reasonable request of Administrative Agent, as is necessary to carry out the intent of this Amendment.

3.6 Entirety. This Amendment reflects the entire understanding of the parties with respect to the transactions contemplated hereby and shall not be contradicted or qualified by any other agreement, oral or written, before the date hereof.

3.7 Counterparts; Telecopy. This Amendment may be executed in any number of counterparts and by different parties on separate counterparts, each of which, when executed and delivered, shall be deemed to be an original, and all of which, when taken together, shall constitute but one and the same Amendment. Delivery of an executed counterpart of this Amendment by telefacsimile or other electronic method of transmission shall be equally as effective as delivery of an original executed counterpart of this Amendment. Any party delivering an executed counterpart of this Amendment by telefacsimile or other electronic method of transmission also shall deliver an original executed counterpart of this Amendment but the failure to deliver an original executed counterpart shall not affect the validity, enforceability, and binding effect of this Amendment.

3.8 [Reserved].

3.9 GOVERNING LAW. THE CONSTRUCTION, INTERPRETATION, AND ENFORCEMENT OF THIS AMENDMENT, THE RIGHTS OF THE PARTIES HERETO AND THERETO WITH RESPECT TO ALL MATTERS ARISING HEREUNDER OR THEREUNDER OR RELATED HERETO, AND ANY CLAIMS, CONTROVERSIES OR DISPUTES ARISING HEREUNDER OR RELATED HERETO SHALL BE DETERMINED UNDER, GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK.

3.10 Successors and Assigns. This Amendment shall bind and inure to the benefit of the respective successors and assigns of each of the parties hereto; provided, that no Borrower may assign this Amendment or any rights or duties hereunder without the Lenders' prior written consent and any prohibited assignment shall be absolutely void *ab initio*.

3.11 Additional Consents. The jurisdiction, jury trial waiver, venue, indemnification and judicial reference provisions set forth in Article IX of the Credit Agreement are hereby incorporated by reference, *mutatis mutandis*.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF the parties hereto have caused this Amendment to be duly executed on the date first above written.

BORROWER: GRAHAM HOLDINGS COMPANY

By /s/ Wallace R. Rooney
Name: Wallace R. Cooney
Title: Chief Financial Officer

ADDITIONAL FOREIGN BORROWER: KAPLAN U.K. LIMITED

By /s/ P.M. Houillon
Name: P.M Houillon
Title: CFO Kaplan International

GUARANTORS: GRAHAM MEDIA GROUP, INC.

By: /s/ Heidi Schmid Whiting
Name: Heidi Schmid Whiting
Title: VP/General Counsel

GRAHAM MEDIA GROUP, FLORIDA, INC.

By: /s/ Heidi Schmid Whiting
Name: Heidi Schmid Whiting
Title: VP/General Counsel

GRAHAM MEDIA GROUP, HOUSTON, INC.

By: /s/ Heidi Schmid Whiting
Name: Heidi Schmid Whiting
Title: VP/General Counsel

GRAHAM MEDIA GROUP, MICHIGAN, INC.

By: /s/ Heidi Schmid Whiting
Name: Heidi Schmid Whiting
Title: VP/General Counsel

GRAHAM MEDIA GROUP, ORLANDO, INC.

By: /s/ Heidi Schmid Whiting
Name: Heidi Schmid Whiting
Title: VP/General Counsel

GRAHAM MEDIA GROUP, SAN ANTONIO, INC.

By: /s/ Heidi Schmid Whiting
Name: Heidi Schmid Whiting
Title: VP/General Counsel

GROUP DEKKO INC.

By: /s/ David Burnworth
Name: David Burnworth
Title: President and CEO

GROUP DEKKO HOLDINGS INC..

By: /s/ David Burnworth
Name: Daivd Burnworth
Title: President and CEO

FRTW HOLDINGS LLC

By: /s/ William Herbert
Name: William Herbert
Title: CFO

KAPLAN, INC.

By: /s/ Mathew C. Seelye
Name: Mathew C. Seelye
Title: Chief Financial Officer

IOWA COLLEGE ACQUISITION, LLC

By: /s/ David Adams
Name: David Adams
Title: General Counsel, Officer

DF INSTITUTE, LLC

By: /s/ David Adams
Name: David Adams
Title: General Counsel, Officer

KAPLAN INTERNATIONAL NORTH AMERICA, LLC

By: /s/ Ashley Pomonis
Name: Ashley Pomonis
Title: Secretary

GRAHAM HEALTHCARE GROUP, INC.

By: /s/ Jason T. Pierce
Name: Jason T. Pierce
Title: CFO

ADMINISTRATIVE AGENT: **WELLS FARGO BANK, NATIONAL ASSOCIATION**, a national banking association, as
Administrative Agent and as a Lender

By: /s/ Katherine A. Marcotte
Name: Katherine A. Marcotte
Title: Senior Vice President

LENDERS:

JPMORGAN CHASE BANK, N.A.

By /s/ Alicia Schreibstein
Name: Alicia Schreibstein
Title: Executive Director

WELLS FARGO BANK, NATIONAL ASSOCIATION

By /s/ Katherine A. Marcotte
Name: Katherine A. Marcotte
Title: Senior Vice President

HSBC BANK USA, NATIONAL ASSOCIATION

By /s/ Alyssa Champion
Name: Alyssa Champion
Title: Senior Vice President

BANK OF AMERICA, N.A.

By /s/ Mark A. Zirkle
Name: Mark A. Zirkle
Title: Senior Vice President

PNC BANK, NATIONAL ASSOCIATION

By /s/ Eric H. Williams
Name: Eric H. Williams
Title: Senior Vice President

THE BANK OF NEW YORK MELLON

By /s/ William M. Feathers
Name: William M. Feathers
Title: Director

Conformed through the First Amendment dated as of November 23, 2021

U.S. \$300,000,000

AMENDED AND RESTATED FIVE YEAR CREDIT AGREEMENT

Dated as of May 30, 2018

Among
GRAHAM HOLDINGS COMPANY
as Company

and

THE FOREIGN BORROWERS FROM TIME TO TIME PARTY HERETO
as Foreign Borrowers

and

THE GUARANTORS LISTED ON THE SIGNATURE PAGES HEREOF
as Guarantors

and

THE INITIAL LENDERS NAMED HEREIN
as Initial Lenders

and

WELLS FARGO BANK, NATIONAL ASSOCIATION
as Administrative Agent

and

JPMORGAN CHASE BANK, N.A.
as Syndication Agent

HSBC BANK USA, NATIONAL ASSOCIATION
BANK OF AMERICA, N.A.
as Documentation Agents

WELLS FARGO SECURITIES, LLC
JPMORGAN CHASE BANK, N.A.
as Joint Lead Arrangers and Joint Book Managers

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AMENDED AND RESTATED FIVE YEAR CREDIT AGREEMENT

Dated as of May 30, 2018

Graham Holdings Company, a Delaware corporation (the “Company”), the Foreign Borrowers from time to time party hereto, the Guarantors listed on the signature pages hereof, the banks, financial institutions and other institutional lenders (the “Initial Lenders”) listed on the signature pages hereof, and Wells Fargo Bank, National Association (“Wells Fargo Bank”), as administrative agent (the “Administrative Agent”) for the Lenders (as hereinafter defined), agree as follows:

ARTICLE I

DEFINITIONS AND ACCOUNTING TERMS

SECTION 1.01. Certain Defined Terms. As used in this agreement (this “Agreement”), the following terms shall have the following meanings (such meanings to be equally applicable to both the singular and plural forms of the terms defined):

“Advance” means a Multicurrency Tranche Advance or a US Tranche Advance.

“Administrative Questionnaire” means an Administrative Questionnaire in a form supplied by the Administrative Agent.

“Adjusted Daily Simple RFR” means, for any RFR Rate Day, a rate per annum equal to, for any Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to:

(a) US Dollars, on and after the USD LIBOR Transition Date, the greater of (i) the sum of (A) SOFR for the day (such day, a “Dollar RFR Determination Day”) that is five (5) RFR Business Days prior to (I) if such RFR Rate Day is an RFR Business Day, such RFR Rate Day or (II) if such RFR Rate Day is not an RFR Business Day, the RFR Business Day immediately preceding such RFR Rate Day, in each case, as such SOFR is published by the SOFR Administrator on the SOFR Administrator’s Website; provided that if by 5:00 p.m. (New York time) on the second RFR Business Day immediately following any Dollar RFR Determination Day, SOFR in respect of such Dollar RFR Determination Day has not been published on the SOFR Administrator’s Website and a Benchmark Replacement Date with respect to SOFR has not occurred, then SOFR for such Dollar RFR Determination Day will be SOFR as published in respect of the first preceding RFR Business Day for which such SOFR was published on the SOFR Administrator’s Website; provided further that SOFR as determined pursuant to this proviso shall be utilized for purposes of calculation of Adjusted Daily Simple RFR for no more than three (3) consecutive RFR Rate Days and (B) the SOFR Adjustment and (ii) the Floor; and

(b) [Reserved].

Any change in Adjusted Daily Simple RFR due to a change in the applicable RFR shall be effective from and including the effective date of such change in the RFR without notice to the Company.

“Adjusted Eurocurrency Rate” means, as to any Advance denominated in any applicable Currency not bearing interest based on an RFR (which, as of the First Amendment Effective Date, is US Dollars and each Foreign Currency, other than Sterling and Singapore Dollars) for

any Interest Period, a rate per annum (rounded upwards, if necessary, to the next 1/10,000 of 1%) determined by the Administrative Agent pursuant to the following formula:

$$\text{Adjusted Eurocurrency Rate} = \frac{\text{Eurocurrency Rate for such Currency for such Interest Period}}{1.00 - \frac{\text{Eurocurrency Reserve Percentage}}{100}}$$

“Adjusted Term SOFR” means, for purposes of any calculation, the rate per annum equal to (a) Term SOFR for such calculation plus (b) the Term SOFR Adjustment; provided that if Adjusted Term SOFR as so determined shall ever be less than the Floor, then Adjusted Term SOFR shall be deemed to be the Floor.

“Affected Financial Institution” means (a) any EEA Financial Institution or (b) any UK Financial Institution.

“Affiliate” means, as to any Person, any other Person that, directly or indirectly, controls, is controlled by or is under common control with such Person or is a director or executive officer of such Person. For purposes of this definition, the term “control” (including the terms “controlling”, “controlled by” and “under common control with”) of a Person means the possession, direct or indirect, of the power to direct or cause the direction of the management and policies of such Person, whether through the ownership of Voting Stock, by contract or otherwise.

“Agent Parties” has the meaning specified in Section 9.02(d)(ii).

“Announcements” has the meaning specified in Section 1.06.

“Anti-Corruption Laws” means any law, rule or regulation of any jurisdiction applicable to the Company or any of its Subsidiaries from time to time concerning or relating to bribery or corruption.

“Applicable Law” means all applicable provisions of constitutions, laws, statutes, ordinances, rules, treaties, regulations, permits, licenses, approvals, interpretations and orders of Governmental Authorities and all orders and decrees of all courts and arbitrators.

“Applicable Lending Office” means, with respect to any Lender, the office(s) of such Lender maintaining such Lender’s Advances, which office(s) may include an office of any Affiliate of such Lender or any domestic or foreign branch of such Lender or Affiliate.

“Applicable Margin” means as of any date, a percentage per annum determined by reference to the Performance Level in effect on such date as set forth below:

Performance Level	Applicable Margin for Eurocurrency Rate Advances and RFR Advances	Applicable Margin for Base Rate Advances
I	1.250%	0.250%
II	1.500%	0.500%
III	1.750%	0.750%

The Applicable Margin shall be determined and adjusted quarterly on the date that is five Business Days after the day on which the Company provides a compliance certificate pursuant to Section 5.01(i) for the most recently ended fiscal quarter of the Company (each such date, a “Calculation Date”); provided that (a) the Applicable Margin shall be based on Performance Level II until the first Calculation Date occurring after the Effective Date and, thereafter the Performance Level shall be determined by reference to the Total Leverage Ratio as of the last day of the most recently ended fiscal quarter of the Company preceding the applicable Calculation Date, and (b) if the Company fails to provide a compliance certificate when due as required by Section 5.01(i) for the most recently ended fiscal quarter of the Company preceding the applicable Calculation Date, the Applicable Margin from the date on which such compliance certificate was required to have been delivered shall be based on Performance Level III until such time as such compliance certificate is delivered, at which time the Performance Level shall be determined by reference to the Total Leverage Ratio as of the last day of the most recently ended fiscal quarter of the Company preceding such Calculation Date. The applicable Performance Level shall be effective from one Calculation Date until the next Calculation Date. Any adjustment in the Performance Level shall be applicable to all Advances then existing or subsequently made or issued.

Notwithstanding the foregoing, in the event that any financial statement or compliance certificate delivered pursuant to Section 5.01(i) is shown to be inaccurate (regardless of whether (i) this Agreement is in effect, (ii) any Commitments are in effect, or (iii) any Advance is outstanding when such inaccuracy is discovered or such financial statement or compliance certificate was delivered), and such inaccuracy, if corrected, would have led to the application of a higher Applicable Margin for any period (an “Applicable Period”) than the Applicable Margin applied for such Applicable Period, then (A) the Company shall promptly deliver to the Administrative Agent a corrected compliance certificate for such Applicable Period, (B) the Applicable Margin for such Applicable Period shall be determined as if the Total Leverage Ratio in the corrected compliance certificate were applicable for such Applicable Period, and (C) the applicable Borrower shall promptly and retroactively be obligated to pay to the Administrative Agent the accrued additional interest owing as a result of such increased Applicable Margin for such Applicable Period, which payment shall be promptly applied by the Administrative Agent in accordance with 2.13. Nothing in this paragraph shall limit the rights of the Administrative Agent and Lenders with respect to Sections 2.07 and 6.01 nor any of their other rights under this Agreement or any other Loan Document. The Borrowers’ obligations under this paragraph shall survive the termination of the Commitments and the repayment of all other Borrower Obligations for one year after the date of such termination and repayment.

“Applicable Percentage” means, as of any date, a percentage per annum determined by reference to the Performance Level in effect on such date as set forth below:

<u>Performance Level</u>	<u>Applicable Percentage</u>
I	0.150%
II	0.200%
III	0.250%

“Applicable Time” means, with respect to any Advance and payments in any Foreign Currency, the local time in the place of settlement for such Foreign Currency as may be determined by the Administrative Agent to be necessary for timely settlement on the relevant date in accordance with normal banking procedures in the place of payment.

“Assignment and Assumption” means an assignment and assumption entered into by a Lender and an Eligible Assignee (with the consent of any party whose consent is required by Section 8.07 (b)(iii)), and accepted by the Administrative Agent, in substantially the form of Exhibit C or any other form approved by the Administrative Agent.

“Assuming Lender” means an Eligible Assignee not previously a Lender that becomes a Lender hereunder pursuant to either Section 2.05(b) or Section 2.17.

“Assumption Agreement” means an agreement in substantially the form of Exhibit D hereto by which an Eligible Assignee agrees to become a Lender hereunder pursuant to either Section 2.05(b) or Section 2.17, in each case agreeing to be bound by all obligations of a Lender hereunder.

“Australian Dollar” means Australian dollar, the lawful currency of Australia.

“Available Tenor” means, as of any date of determination and with respect to any then-current Benchmark for any Currency, as applicable, (a) if such Benchmark is a term rate, any tenor for such Benchmark (or component thereof) that is or may be used for determining the length of an Interest Period pursuant to this Agreement or (b) otherwise, any payment period for interest calculated with reference to such Benchmark (or component thereof) that is or may be used for determining any frequency of making payments of interest calculated with reference to such Benchmark, in each case, as of such date and not including, for the avoidance of doubt, any tenor for such Benchmark that is then-removed from the definition of “Interest Period” pursuant to Section 2.20(c)(iv).

“Bail-In Action” means the exercise of any Write-Down and Conversion Powers by the applicable Resolution Authority in respect of any liability of an Affected Financial Institution.

“Bail-In Legislation” means (a) with respect to any EEA Member Country implementing Article 55 of Directive 2014/59/EU of the European Parliament and of the Council of the European Union, the implementing law, regulation, rule or requirement for such EEA Member Country from time to time which is described in the EU Bail-In Legislation Schedule and (b) with respect to the United Kingdom, Part I of the United Kingdom Banking Act 2009 (as amended from time to time) and any other law, regulation or rule applicable in the United Kingdom relating to the resolution of unsound or failing banks, investment firms or other financial institutions or their affiliates (other than through liquidation, administration or other insolvency proceedings).

“Base Rate” means, at any time, the highest of (a) the Prime Rate, (b) the Federal Funds Rate plus 0.50% and (c)(i) prior to the USD LIBOR Transition Date, the Adjusted Eurocurrency Rate for US Dollars for a one-month tenor in effect on such day plus 1.00% and (ii) on and after

the USD LIBOR Transition Date, the sum of (A) either (1) Adjusted Term SOFR (if a Benchmark Replacement is determined in accordance with clause (b)(1) of the definition of “Benchmark Replacement” for the USD LIBOR Transition Date) for a one-month tenor in effect on such day or (2) Adjusted Daily Simple RFR for US Dollars (if a Benchmark Replacement is determined in accordance with clause (b)(2) of the definition of “Benchmark Replacement” for the USD LIBOR Transition Date) in effect on such day plus (B) 1.00%; each change in the Base Rate shall take effect simultaneously with the corresponding change or changes in the Prime Rate, the Federal Funds Rate, the Adjusted Eurocurrency Rate for US Dollars, Adjusted Term SOFR or Adjusted Daily Simple RFR for US Dollars, as the case may be (provided that clause (c) shall not be applicable during any period in which the Adjusted Eurocurrency Rate, Adjusted Term SOFR or Adjusted Daily Simple RFR, as applicable, is unavailable or unascertainable). Notwithstanding the foregoing, in no event shall the Base Rate be less than 0%.

“Base Rate Advance” means an Advance that bears interest as provided in Section 2.07(a)(i). All Base Rate Advances shall be denominated in US Dollars.

“Bankruptcy Code” means the Bankruptcy Code in Title 11 of the United States Code, as amended, modified, succeeded or replaced from time to time.

“BBSY” has the meaning assigned thereto in the definition of “Eurocurrency Rate”.

“BBSY Rate” has the meaning assigned thereto in the definition of “Eurocurrency Rate”.

“Benchmark” means, initially, with respect to any (a) Borrower Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, US Dollars, USD LIBOR; provided that if (i) the USD LIBOR Transition Date has occurred or (ii) a Benchmark Transition Event, a Term RFR Transition Event or an Other Benchmark Rate Election, as applicable, has occurred with respect to the then-current Benchmark for US Dollars, then “Benchmark” means, with respect to such Borrower Obligations, interest, fees, commissions or other amounts, the applicable Benchmark Replacement to the extent that such Benchmark Replacement has replaced such prior benchmark rate pursuant to Section 2.20(c)(i), (b) Borrower Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, Sterling, the Daily Simple RFR applicable for such Currency; provided that if a Benchmark Transition Event has occurred with respect to such Daily Simple RFR or the then-current Benchmark for such Currency, then “Benchmark” means, with respect to such Borrower Obligations, interest, fees, commissions or other amounts, the applicable Benchmark Replacement to the extent that such Benchmark Replacement has replaced such prior benchmark rate pursuant to Section 2.20(c)(i), (c) Borrower Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, Singapore Dollars, the Daily Simple RFR applicable for such Currency; provided that if a Benchmark Transition Event has occurred with respect to such Daily Simple RFR or the then-current Benchmark for such Currency, then “Benchmark” means, with respect to such Borrower Obligations, interest, fees, commissions or other amounts, the applicable Benchmark Replacement to the extent that such Benchmark Replacement has replaced such prior benchmark rate pursuant to Section 2.20(c)(i) and (d) Borrower Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, Euros, Australian Dollars, Canadian Dollars or any other Foreign Currency (other than Sterling and Singapore Dollars), EURIBOR, BBSY, CDOR or the Adjusted Eurocurrency Rate applicable for such Currency, respectively; provided that if a Benchmark Transition Event has occurred with respect to EURIBOR, BBSY, CDOR or such other Adjusted Eurocurrency Rate or the then-current Benchmark for such Currency, then “Benchmark” means, with respect to such Borrower Obligations, interest, fees, commissions or other amounts, the applicable Benchmark Replacement to the extent that such Benchmark Replacement has replaced such prior benchmark rate pursuant to Section 2.20(c)(i).

“Benchmark Replacement” means,

(a) with respect to any Benchmark Transition Event for any then-current Benchmark, the sum of: (i) the alternate benchmark rate that has been selected by the Administrative Agent and the Company as the replacement for such Benchmark giving due consideration to (A) any selection or recommendation of a replacement benchmark rate or the mechanism for determining such a rate by the Relevant Governmental Body or (B) any evolving or then-prevailing market convention for determining a benchmark rate as a replacement for such Benchmark for syndicated credit facilities denominated in the applicable Currency at such time and (ii) the related Benchmark Replacement Adjustment; provided that, if such Benchmark Replacement as so determined would be less than the Floor, such Benchmark Replacement will be deemed to be the Floor for the purposes of this Agreement and the other Loan Documents; or

(b) with respect to the USD LIBOR Transition Date, for any Available Tenor of the Adjusted Eurocurrency Rate for US Dollars, the first alternative set forth in the order below that can be determined by the Administrative Agent for the USD LIBOR Transition Date:

- (1) Adjusted Term SOFR;
- (2) Adjusted Daily Simple RFR for US Dollars; or

(3) the sum of: (A) the alternate benchmark rate that has been selected by the Administrative Agent and the Company as the replacement for the Adjusted Eurocurrency Rate for US Dollars giving due consideration to (i) any selection or recommendation of a replacement benchmark rate or the mechanism for determining such a rate by the Relevant Governmental Body or (ii) any evolving or then-prevailing market convention for determining a benchmark rate as a replacement for the Adjusted Eurocurrency Rate for US Dollars for syndicated credit facilities denominated in US Dollars at such time and (B) the related Benchmark Replacement Adjustment; provided that, if such Benchmark Replacement as so determined would be less than the Floor, such Benchmark Replacement will be deemed to be the Floor for the purposes of this Agreement and the other Loan Documents; or

(c) with respect to any Term RFR Transition Event for any Currency, the Term RFR for such Currency; or

(d) with respect to any Other Benchmark Rate Election, the sum of: (A) the alternate benchmark rate that has been selected by the Administrative Agent and the Company as the replacement for the Adjusted Eurocurrency Rate for US Dollars giving due consideration to any evolving or then-prevailing market convention for determining a benchmark rate as a replacement for such Benchmark for US Dollar-denominated syndicated credit facilities at such time and (B) the related Benchmark Replacement Adjustment;

provided that, if such Benchmark Replacement as so determined would be less than the Floor, such Benchmark Replacement will be deemed to be the Floor for the purposes of this Agreement and the other Loan Documents;

provided further that, in the case of clause (b)(1), if the Administrative Agent decides that Adjusted Term SOFR is not administratively feasible for the Administrative Agent, then Adjusted Term SOFR will be deemed unable to be determined for purposes of this definition.

“Benchmark Replacement Adjustment” means, for purposes of:

(a) clauses (a) and (b)(3) of the definition of “Benchmark Replacement”, with respect to any replacement of any then-current Benchmark with an Unadjusted Benchmark Replacement for any applicable Available Tenor, the spread adjustment, or method for calculating or

determining such spread adjustment, (which may be a positive or negative value or zero) that has been selected by the Administrative Agent and the Company giving due consideration to (i) any selection or recommendation of a spread adjustment, or method for calculating or determining such spread adjustment, for the replacement of such Benchmark with the applicable Unadjusted Benchmark Replacement by the Relevant Governmental Body or (ii) any evolving or then-prevailing market convention for determining a spread adjustment, or method for calculating or determining such spread adjustment, for the replacement of such Benchmark with the applicable Unadjusted Benchmark Replacement for syndicated credit facilities denominated in the applicable Currency; and

(b) clause (d) of the definition of "Benchmark Replacement", with respect to any replacement of the Adjusted Eurocurrency Rate for US Dollars with an Unadjusted Benchmark Replacement for any applicable Available Tenor, the spread adjustment, or method for calculating or determining such spread adjustment (which may be a positive or negative value or zero), that has been selected by the Administrative Agent and the Company giving due consideration to any evolving or then-prevailing market convention for determining a spread adjustment, or method for calculating or determining such spread adjustment, for the replacement of the Adjusted Eurocurrency Rate for US Dollars with the applicable Unadjusted Benchmark Replacement for US Dollar-denominated syndicated credit facilities.

"Benchmark Replacement Date" means the earliest to occur of the following events with respect to the then-current Benchmark for any Currency:

(a) in the case of clause (a) or (b) of the definition of "Benchmark Transition Event", the later of (i) the date of the public statement or publication of information referenced therein and (ii) the date on which the administrator of such Benchmark (or the published component used in the calculation thereof) permanently or indefinitely ceases to provide all Available Tenors of such Benchmark (or such component thereof);

(b) in the case of clause (c) of the definition of "Benchmark Transition Event", the first date on which such Benchmark (or the published component used in the calculation thereof) has been determined and announced by the regulatory supervisor for the administrator of such Benchmark (or such component thereof) to be non-representative; provided, that such non-representativeness will be determined by reference to the most recent statement or publication referenced in such clause (c) and even if any Available Tenor of such Benchmark (or such component thereof) continues to be provided on such date;

(c) in the case of a Term RFR Transition Event for such Currency, the Term RFR Transition Date applicable thereto; or

(d) in the case of an Other Benchmark Rate Election, the sixth Business Day after the date notice of such Other Benchmark Rate Election is provided to the Lenders, so long as the Administrative Agent has not received, by 5:00 p.m. (New York City time) on the fifth Business Day after the date notice of such Other Benchmark Rate Election is provided to the Lenders, written notice of objection to such Other Benchmark Rate Election from Lenders comprising the Required Lenders.

For the avoidance of doubt, (A) if the Reference Time for the applicable Benchmark refers to a specific time of day and the event giving rise to the Benchmark Replacement Date for any Benchmark occurs on the same day as, but earlier than, the Reference Time in respect of any determination, the Benchmark Replacement Date will be deemed to have occurred prior to the Reference Time for such Benchmark and for such determination and (B) the "Benchmark Replacement Date" will be deemed to have occurred in the case of clause (a) or (b) with respect to any Benchmark upon the occurrence of the applicable event or events set forth therein with respect to all then-current Available Tenors of such Benchmark (or the published component used in the calculation thereof).

“Benchmark Transition Event” means, with respect to the then-current Benchmark for any Currency, the occurrence of one or more of the following events with respect to such Benchmark:

(a) a public statement or publication of information by or on behalf of the administrator of such Benchmark (or the published component used in the calculation thereof) announcing that such administrator has ceased or will cease to provide all Available Tenors of such Benchmark (or such component thereof), permanently or indefinitely, provided that, at the time of such statement or publication, there is no successor administrator that will continue to provide any Available Tenor of such Benchmark (or such component thereof);

(b) a public statement or publication of information by the regulatory supervisor for the administrator of such Benchmark (or the published component used in the calculation thereof), the FRB, the Federal Reserve Bank of New York, the central bank for the Currency applicable to such Benchmark, an insolvency official with jurisdiction over the administrator for such Benchmark (or such component), a resolution authority with jurisdiction over the administrator for such Benchmark (or such component) or a court or an entity with similar insolvency or resolution authority over the administrator for such Benchmark (or such component), which states that the administrator of such Benchmark (or such component) has ceased or will cease to provide all Available Tenors of such Benchmark (or such component thereof) permanently or indefinitely, provided that, at the time of such statement or publication, there is no successor administrator that will continue to provide any Available Tenor of such Benchmark (or such component thereof); or

(c) a public statement or publication of information by the regulatory supervisor for the administrator of such Benchmark (or the published component used in the calculation thereof) announcing that all Available Tenors of such Benchmark (or such component thereof) are not, or as of a specified future date will not be, representative.

For the avoidance of doubt, a “Benchmark Transition Event” will be deemed to have occurred with respect to any Benchmark if a public statement or publication of information set forth above has occurred with respect to each then-current Available Tenor of such Benchmark (or the published component used in the calculation thereof).

“Benchmark Transition Start Date” means, with respect to any Benchmark for any Currency, (a) in the case of a Benchmark Transition Event, the earlier of (i) the applicable Benchmark Replacement Date and (ii) if such Benchmark Transition Event is a public statement or publication of information of a prospective event, the 90th day prior to the expected date of such event as of such public statement or publication of information (or if the expected date of such prospective event is fewer than 90 days after such statement or publication, the date of such statement or publication) or (b) in the case of an Other Benchmark Rate Election, the applicable Benchmark Replacement Date.

“Benchmark Unavailability Period” means, with respect to (a) the Adjusted Eurocurrency Rate for US Dollars, the period (if any) (i) beginning at the time that the USD LIBOR Transition Date has occurred pursuant to clause (a) of that definition if, at such time, no Benchmark Replacement has replaced the Adjusted Eurocurrency Rate for US Dollars for all purposes hereunder and under any Loan Document in accordance with Section 2.20(c)(i) and (ii) ending at the time that a Benchmark Replacement has replaced the Adjusted Eurocurrency Rate for US Dollars for all purposes hereunder and under any Loan Document in accordance with Section 2.20(c)(i) and (b) any then-current Benchmark for any Currency other than the Adjusted Eurocurrency Rate for US Dollars, the period (if any) (i) beginning at the time that a Benchmark Replacement Date with respect to such Benchmark pursuant to clauses (a) or (b) of that definition has occurred if, at such time, no Benchmark Replacement has replaced such Benchmark for all purposes hereunder and under any Loan Document in accordance with Section

2.20(c)(i) and (ii) ending at the time that a Benchmark Replacement has replaced such Benchmark for all purposes hereunder and under any Loan Document in accordance with Section 2.20(c)(i).

“Beneficial Ownership Certification” means a certification regarding beneficial ownership required by the Beneficial Ownership Regulation, which certification shall be substantially similar in form and substance to the form of Certification Regarding Beneficial Owners of Legal Entity Customers published jointly, in May 2018, by the Loan Syndications and Trading Association and Securities Industry and Financial Markets Association.

“Beneficial Ownership Regulation” means 31 C.F.R. § 1010.230.

“Benefit Plan” means any of (a) an “employee benefit plan” (as defined in ERISA) that is subject to Title I of ERISA, (b) a “plan” as defined in and subject to Section 4975 of the Code or (c) any Person whose assets include (for purposes of ERISA Section 3(42) or otherwise for purposes of Title I of ERISA or Section 4975 of the Code) the assets of any such “employee benefit plan” or “plan”.

“BHC Act Affiliate” has the meaning specified in Section 9.20(b).

“Borrower Obligations” and “Obligations” means the obligations of each Borrower hereunder and under the other Loan Documents.

“Borrowers” means, collectively, the Foreign Borrowers and the Company.

“Borrowing” means a borrowing consisting of simultaneous Advances of the same Type made by each of the Lenders pursuant to Section 2.01.

“Business Day” means a day of the year on which banks are not required or authorized by law to close in New York City, and if the applicable Business Day relates to any Eurocurrency Rate Advances, on which dealings are carried on in New York City and the London interbank market; provided that (a) with respect to any Advance denominated in a Foreign Currency, the term “Business Day” shall also exclude (i) any day that is not a TARGET Day and (ii) any day on which banks (A) are not open for dealings in deposits denominated in such Foreign Currency in the London interbank market and (B) are not open for foreign exchange business in the principal financial center of the country of such Foreign Currency and (b) with respect to any Advance to a Foreign Borrower, the term “Business Day” shall also exclude any day on which banks are not open for dealings in the jurisdiction of organization of such Foreign Borrower.

“Canadian Dollars” means Canadian Dollars, the lawful currency of Canada.

“CDOR” has the meaning assigned thereto in the definition of “Eurocurrency Rate”.

“CDOR Rate” has the meaning assigned thereto in the definition of “Eurocurrency Rate”.

“CFC” means a Person that is a “controlled foreign corporation” as defined in Section 957 of the Internal Revenue Code, but only if a “United States person” (within the meaning of Section 7701(a)(3) of the Internal Revenue Code) that is a Credit Party or an Affiliate of a Credit Party is, with respect to such Person, a “United States shareholder” (within the meaning of Section 951(b) of the Internal Revenue Code) as described in Section 951(a)(1) of the Internal Revenue Code.

CFC Holdco means any Subsidiary all or substantially all of the assets of which consist of the Equity Interest or indebtedness of one or more CFCs (either directly or indirectly through other such Subsidiaries).

Commitment means a Multicurrency Tranche Commitment or a US Tranche Commitment.

Commitment Date has the meaning specified in Section 2.05(b)(i).

Commitment Fee has the meaning specified in Section 2.04(a).

Commitment Increase has the meaning specified in Section 2.05(b)(i).

Communications has the meaning specified in Section 9.02(d)(ii).

Confidential Information means information that is furnished by or on behalf of the Company to the Administrative Agent or any Lender in a writing designated as confidential, but does not include any such information that is or becomes generally available to the public or that is or becomes available to the Administrative Agent or such Lender from a source other than the Company that is not, to the best of the Administrative Agent's or such Lender's knowledge, acting in violation of a confidentiality agreement with or for the benefit of the Company.

Conforming Changes means, with respect to the use, administration, adoption or implementation of any Benchmark Replacement, any technical, administrative or operational changes (including changes to the definition of "Base Rate", the definition of "Business Day," the definition of "Eurocurrency Banking Day", the definition of "RFR Business Day", the definition of "Interest Period" or any similar or analogous definition (or the addition of a concept of "interest period"), timing and frequency of determining rates and making payments of interest, timing of borrowing requests or prepayment, conversion or continuation notices, the applicability and length of lookback periods, the applicability of Section 2.20 and other technical, administrative or operational matters) that the Administrative Agent decides may be appropriate to reflect the adoption and implementation of any such rate or to permit the use and administration thereof by the Administrative Agent in a manner substantially consistent with market practice (or, if the Administrative Agent decides that adoption of any portion of such market practice is not administratively feasible or if the Administrative Agent determines that no market practice for the administration of any such rate exists, in such other manner of administration as the Administrative Agent decides is reasonably necessary in connection with the administration of this Agreement and the other Loan Documents).

Consenting Lender has the meaning specified in Section 2.17(b).

Consolidated refers to the consolidation of accounts in accordance with GAAP.

Consolidated Assets means, as of any date of determination, the total consolidated assets of the Company and its Subsidiaries at such date, as determined in accordance with GAAP on a Consolidated basis.

Consolidated Debt means, as of any date of determination, the aggregate principal amount of Debt of the Company and its Subsidiaries outstanding as of such date, in the amount that would be required to be reflected on a balance sheet prepared as of such date on a Consolidated basis in accordance with GAAP. Notwithstanding anything to the contrary herein, Consolidated Debt will exclude any Debt ("Refinanced Debt") outstanding on any determination date which is to be refinanced pursuant to a refinancing permitted under this Agreement with the proceeds (the "Refinancing Proceeds") of previously incurred refinancing Debt that is included

in Consolidated Debt on such date (and such Refinancing Proceeds shall not be included as unrestricted cash for purposes of this Agreement); provided that a notice of redemption of, or an offer to purchase, such Refinanced Debt has been given or made (and, in the case of an offer to purchase, not withdrawn) on or prior to such date.

“Consolidated EBITDA” means, as of any date of determination, calculated on a Pro Forma Basis for the most recent four consecutive fiscal quarter period ending on or prior to such date, without duplication, (a) Consolidated Net Income for such period plus (b) the sum of the following to the extent deducted in calculating Consolidated Net Income for such period: (i) Consolidated Interest Expense of the Company and its Subsidiaries for such period, (ii) consolidated tax expense (including, without limitation, any federal, state, local and foreign income and similar taxes) of the Company and its Subsidiaries for such period, (iii) depreciation and amortization expense of the Company and its Subsidiaries for such period, (iv) any extraordinary losses or charges of the Company and its Subsidiaries for such period, (v) non-cash charges of the Company and its Subsidiaries for such period (excluding pension plan credits and any pension charges), (vi) non-recurring losses, expenses or charges of the Company and its Subsidiaries for such period, (vii) losses attributable to the early extinguishment of Debt of the Company and its Subsidiaries for such period, (viii) any unrealized losses of the Company and its Subsidiaries for such period attributable to the application of “mark to market” accounting in respect of marketable equity securities and hedging agreements, (ix) losses of the Company and its Subsidiaries from the sale or exchange of assets and (x) the cumulative effect for such period of a change in accounting principles, minus (c) the sum of the following to the extent included in calculating Consolidated Net Income for such period: (i) non-cash charges of the Company and its Subsidiaries for such period previously added back in determining Consolidated EBITDA to the extent such non-cash charges have become cash charges during such period, (ii) any extraordinary gains of the Company and its Subsidiaries for such period, (iii) any non-recurring gains of the Company and its Subsidiaries for such period (including, without limitation, (A) gains from the sale or exchange of assets, (B) gains from early extinguishment of Debt of the Company and its Subsidiaries and (C) income received from joint venture investments to the extent not received in cash of the Company and its Subsidiaries for such period, but excluding pension plan credits and any pension charges), (iv) interest income of the Company and its Subsidiaries for such period, (v) any unrealized gains of the Company and its Subsidiaries for such period attributable to the application of “mark to market” accounting in respect of marketable equity securities and hedging agreements and (vi) the cumulative effect for such period of a change in accounting principles.

“Consolidated Interest Coverage Ratio” means, as of any date of determination, for the Company and its Subsidiaries on a Consolidated basis, the ratio of (a) Consolidated EBITDA for the most recent four consecutive fiscal quarter period ending on or prior to such date, to (b) Consolidated Interest Expense for the most recent four consecutive fiscal quarter period ending on or prior to such date.

“Consolidated Interest Expense” means, as of any date of determination, for the Company and its Subsidiaries on a Consolidated basis and for the most recent four consecutive fiscal quarter period ending on or prior to such date, all interest expense (excluding amortization of debt discount and premium and financing fees and expenses, but including the interest component under capital leases and synthetic leases).

“Consolidated Net Income” means, as of any date of determination for the most recent four consecutive fiscal quarter period ending on or prior to such date, the net income of the Company and its Subsidiaries on a Consolidated basis for such period, all as determined in accordance with GAAP.

“Convert”, “Conversion” and “Converted” each refers to a conversion of Advances of one Type into Advances of the other Type pursuant to Section 2.09.

“Covered Entity” has the meaning specified in Section 9.20(b).

“Covered Party” has the meaning specified in Section 9.20(b).

“Credit Parties” means, collectively, the Borrowers and the Guarantors.

“Currencies” means US Dollars and each Foreign Currency, and “Currency” means any of such Currencies.

“Daily Simple RFR” means, for any RFR Rate Day, a rate per annum equal to, for any Borrower Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to

(a) Singapore Dollars, the greater of (i) SORA for the day (such day, a “Singapore Dollar RFR Determination Day”) that is five RFR Business Days prior to (A) if such RFR Rate Day is an RFR Business Day, such RFR Rate Day or (B) if such RFR Rate Day is not an RFR Business Day, the RFR Business Day immediately preceding such RFR Rate Day, in each case, as such SORA is published by the SORA Administrator on the SORA Administrator’s Website; provided that if by 5:00 p.m. (Singapore time) on the second RFR Business Day immediately following any Singapore Dollar RFR Determination Day, SORA in respect of such Singapore Dollar RFR Determination Day has not been published on the SORA Administrator’s Website and a Benchmark Replacement Date with respect to SORA has not occurred, then SORA for such Singapore Dollar RFR Determination Day will be SORA as published in respect of the first preceding RFR Business Day for which such SORA was published on the SORA Administrator’s Website; provided further that SORA as determined pursuant to this proviso shall be utilized for purposes of calculation of Daily Simple RFR for no more than three consecutive RFR Rate Days and (ii) the Floor.

(c) Sterling, the greater of (i) SONIA for the day (such day, a “Sterling RFR Determination Day”) that is five (5) RFR Business Days prior to (I) if such RFR Rate Day is an RFR Business Day, such RFR Rate Day or (II) if such RFR Rate Day is not an RFR Business Day, the RFR Business Day immediately preceding such RFR Rate Day, in each case, as such SONIA is published by the SONIA Administrator on the SONIA Administrator’s Website; provided that if by 5:00 p.m. (London time) on the second (2nd) RFR Business Day immediately following any Sterling RFR Determination Day, SONIA in respect of such Sterling RFR Determination Day has not been published on the SONIA Administrator’s Website and a Benchmark Replacement Date with respect to SONIA has not occurred, then SONIA for such Sterling RFR Determination Day will be SONIA as published in respect of the first preceding RFR Business Day for which such SONIA was published on the SONIA Administrator’s Website; provided further that SONIA as determined pursuant to this proviso shall be utilized for purposes of calculation of Daily Simple RFR for no more than three (3) consecutive RFR Rate Days and (ii) the Floor.

Any change in Daily Simple RFR due to a change in the applicable RFR shall be effective from and including the effective date of such change in the RFR without notice to the Borrower.

“Daily Simple RFR Advance” means an Advance that bears interest at a rate based on Daily Simple RFR or Adjusted Daily Simple RFR other than pursuant to clause (c) of the definition of “Base Rate”.

“Debt” of any Person means, without duplication, (a) all indebtedness of such Person for borrowed money, (b) all obligations of such Person for the deferred purchase price of property or services (other than trade payables not overdue by more than 120 days incurred in the ordinary course of such Person’s business), (c) all obligations of such Person evidenced by notes, bonds, debentures or other similar instruments, (d) all obligations of such Person created or arising under any conditional sale or other title retention agreement with respect to property acquired by such Person (even though the rights and remedies of the seller or lender under such agreement in the event of default are limited to repossession or sale of such property), (e) subject to Section 1.03, all obligations of such Person as lessee under leases that have been or should be, in accordance with GAAP, recorded as capital leases, (f) all obligations, contingent or otherwise, of such Person in respect of acceptances, letters of credit or similar extensions of credit, (g) all Debt of others referred to in clauses (a) through (f) above or clause (h) below guaranteed directly or indirectly in any manner by such Person, or in effect guaranteed directly or indirectly by such Person through an agreement (1) to pay or purchase such Debt or to advance or supply funds for the payment or purchase of such Debt, (2) to purchase, sell or lease (as lessee or lessor) property, or to purchase or sell services, primarily for the purpose of enabling the debtor to make payment of such Debt or to assure the holder of such Debt against loss, (3) to supply funds to or in any other manner invest in the debtor (including any agreement to pay for property or services irrespective of whether such property is received or such services are rendered) or (4) otherwise to assure a creditor against loss, and (h) all Debt referred to in clauses (a) through (g) above secured by (or for which the holder of such Debt has an existing right, contingent or otherwise, to be secured by) any Lien on property (including, without limitation, accounts and contract rights) owned by such Person, even though such Person has not assumed or become liable for the payment of such Debt.

“Debtor Relief Laws” means the Bankruptcy Code, and all other laws relating to liquidation, conservatorship, bankruptcy, assignment for the benefit of creditors, moratorium, rearrangement, receivership, insolvency, reorganization, administration, deed of company arrangement, scheme of arrangement or similar debtor relief laws of the United States or other applicable jurisdictions from time to time in effect.

“Default” means any Event of Default or any event that would constitute an Event of Default but for the requirement that notice be given or time elapse or both.

“Defaulting Lender” means, subject to Section 2.18(b), any Lender that (a) has failed to (i) fund all or any portion of its Advances within two Business Days of the date such Advances were required to be funded hereunder unless such Lender notifies the Administrative Agent and the Company in writing that such failure is the result of such Lender’s good faith determination that one or more conditions precedent to funding (each of which conditions precedent, together with any applicable default, shall be specifically identified in such writing) has not been satisfied, or (ii) pay to the Administrative Agent or any Lender any other amount required to be paid by it hereunder within two Business Days of the date when due, (b) has notified the Company or the Administrative Agent in writing that it does not intend to comply with its funding obligations hereunder, or has made a public statement to that effect (unless such writing or public statement relates to such Lenders’ obligation to fund an Advance hereunder and states that such position is based on such Lender’s good faith determination that a condition precedent to funding (which condition precedent, together with any applicable default, shall be specifically identified in such writing or public statement) cannot be satisfied), (c) has failed, within three Business Days after written request by the Administrative Agent or the Company, to confirm in writing to the Administrative Agent and the Company that it will comply with its prospective funding obligations hereunder (provided that such Lender shall cease to be a Defaulting Lender pursuant to this clause (c) upon receipt of such written confirmation by the Administrative Agent and the Company), or (d) has, or has a direct or indirect parent company that has, (i) become the subject of a proceeding under any Debtor Relief Laws, (ii) had appointed for it a receiver,

custodian, conservator, trustee, administrator, assignee for the benefit of creditors or similar Person charged with reorganization or liquidation of its business or assets, including the Federal Deposit Insurance Corporation or any other state or federal regulatory authority acting in such a capacity or (iii) become the subject of a Bail-in Action; provided that a Lender shall not be a Defaulting Lender solely by virtue of the ownership or acquisition of any equity interest in that Lender or any direct or indirect parent company thereof by a Governmental Authority so long as such ownership interest does not result in or provide such Lender with immunity from the jurisdiction of courts within the United States or from the enforcement of judgments or writs of attachment on its assets or permit such Lender (or such Governmental Authority) to reject, repudiate, disavow or disaffirm any contracts or agreements made with such Lender. Any determination by the Administrative Agent that a Lender is a Defaulting Lender under clauses (a) through (d) above shall be conclusive and binding absent demonstrable error, and such Lender shall be deemed to be a Defaulting Lender (subject to Section 2.18(b)) upon delivery of written notice of such determination to the Company and each Lender.

“Default Interest” has the meaning specified in Section 2.07(b).

“Default Right” has the meaning specified in Section 9.20(b).

“Dollar Equivalent” means, at any time, (a) with respect to any amount denominated in US Dollars, such amount, and (b) with respect to any amount denominated in a Foreign Currency, the equivalent amount thereof in US Dollars as reasonably determined by the Administrative Agent at such time on the basis of the Spot Rate (as determined in respect of the most recent Revaluation Date) for the purchase of US Dollars with such Foreign Currency.

“Domestic Subsidiary” means any Subsidiary that is organized and existing under the laws of the United States or any state thereof or under the laws of the District of Columbia.

“Downgrade” means, with respect to any Lender, the lowest rating that has been most recently announced for any class of non-credit enhanced long-term senior unsecured debt issued by such Lender is lower than BBB- by S&P or Baa3 by Moody’s.

“Early Opt-in Effective Date” means, with respect to any Early Opt-in Election, the sixth (6th) Business Day after the date notice of such Early Opt-in Election is provided to the Lenders, so long as the Administrative Agent has not received, by 5:00 p.m. on the fifth Business Day after the date notice of such Early Opt-in Election is provided to the Lenders, written notice of objection to such Early Opt-in Election from Lenders comprising the Required Lenders.

“Early Opt-in Election” means the occurrence of: (a) a notification by the Administrative Agent to (or the request by the Company to the Administrative Agent to notify) each of the other parties hereto that at least five currently outstanding US Dollar-denominated syndicated credit facilities at such time contain (as a result of amendment or as originally executed) a SOFR-based rate (including SOFR, a term SOFR or any other rate based upon SOFR) as a benchmark rate (and such syndicated credit facilities are identified in such notice and are publicly available for review), and (b) the joint election by the Administrative Agent and the Company to trigger a fallback from the Adjusted Eurocurrency Rate for US Dollars and the provision by the Administrative Agent of written notice of such election to the Lenders.

“EEA Financial Institution” means (a) any credit institution or investment firm established in any EEA Member Country that is subject to the supervision of an EEA Resolution Authority, (b) any entity established in an EEA Member Country that is a parent of an institution described in clause (a) of this definition, or (c) any financial institution established in an EEA Member Country that is a subsidiary of an institution described in clauses (a) or (b) of this definition and is subject to consolidated supervision with its parent.

"EEA Member Country" means any of the member states of the European Union, Iceland, Liechtenstein, and Norway.

"EEA Resolution Authority" means any public administrative authority or any Person entrusted with public administrative authority of any EEA Member Country (including any delegatee) having responsibility for the resolution of any credit institution or investment firm established in any EEA Member Country.

"Effective Date" has the meaning specified in Section 3.01.

"Eligible Assignee" means (a) a Lender and any Affiliate of a Lender organized in the United States; (b) a commercial bank organized under the laws of the United States, or any State thereof, and having total assets in excess of \$5,000,000,000; (c) a savings and loan association or savings bank organized under the laws of the United States, or any State thereof, and having total assets in excess of \$5,000,000,000; (d) a commercial bank organized under the laws of any other country that is a member of the Organization for Economic Cooperation and Development or has concluded special lending arrangements with the International Monetary Fund associated with its General Arrangements to Borrow or of the Cayman Islands, or a political subdivision of any such country, and having total assets in excess of \$5,000,000,000 so long as such bank is acting through a branch or agency located in the United States or in the country in which it is organized or another country that is described in this clause (d); (e) the central bank of any country that is a member of the Organization for Economic Cooperation and Development; and (f) any other Person approved by the Administrative Agent and the Company, on behalf of the Borrowers, such approval not to be unreasonably withheld or delayed; provided, however, that no Borrower nor an Affiliate of any Borrower nor any natural person shall qualify as an Eligible Assignee.

"EMU" means the economic and monetary union as contemplated in the Treaty on European Union (Official Journal C 191, July 29, 1992).

"EMU Legislation" means legislative measures of the European Council (including, without limitation, European Council regulations) for the introduction of, changeover to or operation of a single or unified European currency (whether known as the Euro or otherwise), being in part the implementation of the third stage of EMU.

"Engagement Letter" means that certain Engagement Letter, dated as of May 7, 2018, by and among the Company, on behalf of the Borrowers, Wells Fargo Securities, LLC and JPMorgan Chase Bank, N.A..

"Environmental Action" means any action, suit, demand, demand letter, claim, notice of noncompliance or violation, notice of liability or potential liability, consent order or consent agreement relating in any way to any Environmental Law, Environmental Permit or Hazardous Materials or arising from alleged injury or threat of injury to health, safety or the environment, including, without limitation, (a) by any governmental or regulatory authority for enforcement, cleanup, removal, response, remedial or other actions or damages and (b) by any governmental or regulatory authority or any third party for damages, contribution, indemnification, cost recovery, compensation or injunctive relief.

"Environmental Law" means any applicable federal, state, local or foreign statute, law, ordinance, rule, regulation, code, order, judgment or decree relating to pollution or protection of the environment, health, safety or natural resources, including, without limitation, those relating to the use, handling, transportation, treatment, storage, disposal, release or discharge of Hazardous Materials.

“Environmental Permit” means any permit, approval, identification number, license or other authorization required under any Environmental Law.

“Equity Interests” means (a) in the case of a corporation, capital stock, (b) in the case of an association or business entity, any and all shares, interests, participations, rights or other equivalents (however designated) of capital stock, (c) in the case of a partnership, partnership interests (whether general or limited), (d) in the case of a limited liability company, membership interests and (e) any and all warrants, rights or options entitling the holder thereof to purchase any of the foregoing.

“ERISA” means the Employee Retirement Income Security Act of 1974, as amended from time to time, and the regulations promulgated and rulings issued thereunder.

“ERISA Affiliate” means any Person that for purposes of Title IV of ERISA is a member of any Borrower’s controlled group, or under common control with any Borrower, within the meaning of Section 414(b) or (c) of the Internal Revenue Code or, solely for purposes of Sections 302 and 303 of ERISA and Section 412 of the Internal Revenue Code, is treated as a single employer under Section 414(b), (c), (m) and (o) of the Internal Revenue Code.

“ERISA Event” means (a) (i) the occurrence of a reportable event, within the meaning of Section 4043 of ERISA, with respect to any Plan unless the 30-day notice requirement with respect to such event has been waived by the PBGC, or (ii) the requirements of subsection (1) of Section 4043(b) of ERISA (without regard to subsection (2) of such Section) are met with respect to a contributing sponsor, as defined in Section 4001(a)(13) of ERISA, of a Plan, and an event described in paragraph (9), (10), (11), (12) or (13) of Section 4043(c) of ERISA is reasonably expected to occur with respect to such Plan within the following 30 days; (b) the application for a minimum funding waiver with respect to a Plan; (c) the provision by the administrator of any Plan of a notice of intent to terminate such Plan pursuant to Section 4041(a)(2) of ERISA (including any such notice with respect to a plan amendment referred to in Section 4041(e) of ERISA); (d) the cessation of operations at a facility of any Borrower or any ERISA Affiliate in the circumstances described in Section 4062(e) of ERISA; (e) the withdrawal by any Borrower or any ERISA Affiliate from a Multiple Employer Plan during a plan year for which it was a substantial employer, as defined in Section 4001(a)(2) of ERISA; (f) the conditions for the imposition of a lien under Section 303(k) of ERISA shall have been met with respect to any Plan; (g) a determination that any Plan is in “at risk” status (within the meaning of Section 303 of ERISA); or (h) the institution by the PBGC of proceedings to terminate a Plan pursuant to Section 4042 of ERISA, or the occurrence of any event or condition described in Section 4042 of ERISA that constitutes grounds for the termination of, or the appointment of a trustee to administer, a Plan.

“Erroneous Payment” has the meaning assigned to such term in Section 7.11(a).

“Erroneous Payment Deficiency Assignment” has the meaning assigned to such term in Section 7.11(d).

“Erroneous Payment Impacted Class” has the meaning assigned to such term in Section 7.11(d).

“Erroneous Payment Return Deficiency” has the meaning assigned to such term in Section 7.11(d).

“EU Bail-In Legislation Schedule” means the EU Bail-In Legislation Schedule published by the Loan Market Association (or any successor thereto), as in effect from time to time.

“Euro” means the single currency of Participating Member States of the European Union.

“Euro Unit” means the currency unit of the Euro.

“Eurocurrency Banking Day” means (i) for Borrower Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, US Dollars, a London Banking Day, (ii) for Borrower Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, Euros, a TARGET Day; (iii) for Borrower Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, Canadian Dollars, any day (other than a Saturday or Sunday) on which banks are open for business in Toronto and (iv) for Borrower Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, Australian Dollars, any day (other than a Saturday or Sunday) on which banks are open for business in Melbourne; provided, that for purposes of notice requirements in Sections 2.02, 2.06, 2.09, and 2.10, in each case, such day is also a Business Day.

“Eurocurrency Liabilities” has the meaning assigned to that term in Regulation D of the Board of Governors of the Federal Reserve System, as in effect from time to time.

“Eurocurrency Rate” means,

(a) for any Eurocurrency Rate Advance for any Interest Period:

(i) denominated in US Dollars, the greater of (A) the rate of interest per annum equal to the London interbank offered rate for deposits in US Dollars (“USD LIBOR”) as administered by the IBA, or a comparable or successor administrator approved by the Administrative Agent, for a period comparable to the applicable Interest Period (in each case, the “USD LIBOR Rate”), at approximately 11:00 a.m. (London time) on the applicable Rate Determination Date; and (B) the Floor;

(ii) denominated in Euros, the greater of (A) the rate of interest per annum equal to the Euro Interbank Offered Rate (“EURIBOR”) as administered by the European Money Markets Institute, or a comparable or successor administrator approved by the Administrative Agent, for a period comparable to the applicable Interest Period (in each case, the “EURIBOR Rate”), at approximately 11:00 a.m. (Brussels time) on the applicable Rate Determination Date and (B) the Floor;

(iii) denominated in Canadian Dollars, the greater of (A) the rate per annum equal to the rate determined by the Administrative Agent on the basis of the rate applicable to Canadian Dollar bankers’ acceptances (“CDOR”) as administered by Refinitiv Benchmarks Services (UK) Limited, or a comparable or successor administrator approved by the Administrative Agent, for a period comparable to the applicable Interest Period (in each case, the “CDOR Rate”), at approximately 10:00 a.m. (Toronto time) on the applicable Rate Determination Date and (B) the Floor;

(iv) denominated in Australian Dollars, the greater of (A) the rate per annum equal to the Bank Bill Swap Reference Bid Rate (“BBSY”) as published on the applicable Reuters screen page (or such other commercially available source providing such quotations as may be designated by the Administrative Agent from time to time), for a period comparable to the applicable Interest Period (in each case, the “BBSY Rate”), at approximately 10:30 a.m. (Melbourne time) on the applicable Rate Determination Date and (B) the Floor; and

(v) denominated in any other Currency (other than a Currency referenced in clauses (i) through (iv) above, Sterling or Singapore Dollars) approved by all Lenders, the applicable floating interest rate quotation as published by Reuters (or other commercially available source providing such interest rate quotations as designated by the Administrative Agent from time to time) at a quotation time and date specified in writing and approved by all Lenders, for deposits in the relevant currency with a term equivalent to such Interest Period, or the rate otherwise designated with respect to such Currency at the time such currency is approved by the Administrative Agent and the Lenders.

(b) for any rate calculation with respect to a Base Rate Loan on any date, the rate of interest per annum equal to USD LIBOR as administered by the IBA, or a comparable or successor administrator approved by the Administrative Agent, for a period comparable to one month, at approximately 11:00 a.m. (London time) two (2) Eurocurrency Banking Days prior to the date of such calculation.

"Eurocurrency Rate Advance" means any Advance bearing interest at a rate based on the Adjusted Eurocurrency Rate other than pursuant to clause (c) of the definition of "Base Rate".

"Eurocurrency Reserve Percentage" means, for any day, the percentage which is in effect for such day as prescribed by the FRB for determining the maximum reserve requirement (including any basic, supplemental or emergency reserves) in respect of Eurocurrency Liabilities or any similar category of liabilities for a member bank of the Federal Reserve System in New York City or any other reserve ratio or analogous requirement of any central banking or financial regulatory authority imposed in respect of the maintenance of the Commitments or the funding of the Advances. The Adjusted Eurocurrency Rate for each outstanding Advance shall be adjusted automatically as of the effective date of any change in the Eurocurrency Reserve Percentage.

"Events of Default" has the meaning specified in Section 6.01.

"Excluded Taxes" means any of the following Taxes imposed on or with respect to a Recipient or required to be withheld or deducted from a payment to a Recipient, (a) Taxes imposed on or measured by net income (however denominated), franchise Taxes, and branch profits Taxes, in each case, (i) imposed as a result of such Recipient being organized under the laws of, or having its principal office or, in the case of any Lender, its applicable lending office located in, the jurisdiction imposing such Tax (or any political subdivision thereof) or (ii) that are Other Connection Taxes, (b) in the case of a Lender, United States Federal withholding Taxes and, with respect to any applicable Foreign Borrower, withholding Taxes of the United Kingdom, Canada, Australia, Singapore or any other foreign jurisdiction under the laws of which such Foreign Borrower is organized, imposed on amounts payable to or for the account of such Lender with respect to an applicable interest in an Advance or Commitment pursuant to a law in effect on the date on which (i) such Lender acquires such interest in the Advance or Commitment (other than pursuant to an assignment request by the Company under Section 2.19(b)) or (ii) such Lender changes its lending office, except in each case to the extent that, pursuant to Section 2.14, amounts with respect to such Taxes were payable either to such Lender's assignor immediately before such Lender acquired the applicable interest in such Advance or Commitment or to such Lender immediately before it changed its lending office, (c) Taxes attributable to such Recipient's failure to comply with Section 2.14(e), (d) if any Lender is found as the result of a determination (as defined in Section 1313(a) of the Internal Revenue Code) to be a conduit entity participating in a conduit financing arrangement as defined in Treasury Regulations promulgated under Section 7701(l) of the Internal Revenue Code, the excess of the United States Taxes imposed with respect to such Lender over the amount of United States Taxes that would have been imposed with respect to such Lender if such determination had not been made with respect to such Lender and (e) any withholding Taxes imposed under FATCA.

“Existing Credit Agreement” means this Agreement as in effect immediately prior to the Effective Date.

“Extension Date” has the meaning specified in Section 2.17(b).

“FATCA” means Sections 1471 through 1474 of the Internal Revenue Code, as of the date of this Agreement (including any amended or successor provisions thereto to the extent substantially comparable thereto), any current or future regulations or official interpretations thereof, any agreements entered into pursuant to Section 1471(b)(1) of the Internal Revenue Code (or any amended or successor provisions as described above), and any fiscal or regulatory legislation, rules or practices adopted pursuant to any intergovernmental agreement, treaty or convention among Governmental Authorities entered into in connection with the implementation of the foregoing.

“FCA” means the Financial Conduct Authority, the regulatory supervisor of **“IBA”**.

“FCPA” means the Foreign Corrupt Practices Act, 15 U.S.C. §§ 78dd-1, et seq., as of the date of this Agreement (including any amended or successor provisions thereto to the extent substantially comparable thereto) and any current or future regulations or official interpretations thereof.

“Federal Funds Rate” means, for any day, an interest rate per annum equal to the weighted average of the rates on overnight Federal funds transactions with members of the Federal Reserve System arranged by Federal funds brokers, as published for such day (or, if such day is not a Business Day, for the next preceding Business Day) by the Federal Reserve Bank of New York, or, if such rate is not so published for any day that is a Business Day, the average of the quotations for such day on such transactions received by the Administrative Agent from three Federal funds brokers of recognized standing selected by it with the consent of the Company, on behalf of the Borrowers.

“First Amendment Effective Date” shall mean November 23, 2021.

“Floor” means a rate of interest equal to 0%.

“Foreign Borrower Obligations” means the obligations of each Foreign Borrower hereunder and under the other Loan Documents.

“Foreign Borrowers” means any Subsidiary of the Company organized under the laws of England, Wales, Scotland, Northern Ireland, Canada, Australia, Singapore or any other foreign jurisdiction as approved by each of the Lenders that is joined as a Foreign Borrower pursuant to Section 5.01(j) of this Agreement; provided that, at the election of the Company, any Foreign Borrower may be removed as a Foreign Borrower so long as on the date of such removal, such Foreign Borrower has no outstanding Advances.

“Foreign Currency” means (a) Euros, (b) Sterling, (c) Canadian Dollars, (d) Australian Dollars, (e) Singapore Dollars and (f) such other currencies approved by each of the Lenders.

“Foreign Currency Equivalent” means, at any time, with respect to any amount denominated in US Dollars, the equivalent amount thereof in a Foreign Currency as reasonably determined by the Administrative Agent at such time on the basis of the Spot Rate (determined in respect of the most recent Revaluation Date) for the purchase of such Foreign Currency with US Dollars.

“Foreign Lender” has the meaning specified in Section 2.14(e)(i).

“Foreign Subsidiary” means any direct or indirect Subsidiary of the Company that is not a Domestic Subsidiary.

“FRB” means the Board of Governors of the Federal Reserve System of the United States.

“GAAP” has the meaning specified in Section 1.03.

“Governmental Authority” means the government of the United States or any other nation, or of any political subdivision thereof, whether state or local, and any agency, authority, instrumentality, regulatory body, court, central bank or other entity exercising executive, legislative, judicial, taxing, regulatory or administrative powers or functions of or pertaining to government (including any supra-national bodies such as the European Union or the European Central Bank).

“Graham Interests” means Donald E. Graham and his siblings, their descendants and any relative by marriage of the foregoing, and any trust for the benefit of any of the foregoing whether as an income or residual beneficiary.

“Guarantee” of or by any Person (the “guarantor”) means any obligation, contingent or otherwise, of the guarantor guaranteeing or having the economic effect of guaranteeing any Debt of any other Person (the “primary obligor”) in any manner, whether directly or indirectly, and including any obligation of the guarantor, direct or indirect, (a) to purchase or pay (or advance or supply funds for the purchase or payment of) such Debt or to purchase (or to advance or supply funds for the purchase of) any security for the payment thereof, (b) to purchase or lease property, securities or services for the purpose of assuring the owner of such Debt of the payment thereof, (c) to maintain working capital, equity capital or any other financial statement condition or liquidity of the primary obligor so as to enable the primary obligor to pay such Debt or (d) as an account party in respect of any letter of credit or letter of guaranty issued to support such Debt; provided that the term “Guarantee” shall not include endorsements for collection or deposit in the ordinary course of business.

“Guarantor” means the entities listed on Schedule III attached hereto and each Material Domestic Subsidiary (other than any Subsidiary of a Foreign Subsidiary or any CFC Holdco) as is, or may from time to time become, party to this Agreement.

“Guaranty” means the guaranty of the Guarantors set forth in Article VIII.

“Hazardous Materials” means (a) petroleum and petroleum products, byproducts or breakdown products, radioactive materials, asbestos-containing materials, polychlorinated biphenyls and radon gas and (b) any other chemicals, materials or substances designated, classified or regulated as hazardous or toxic under any Environmental Law and any pollutant or contaminant regulated under the Clean Water Act, 33 U.S.C. Sections 1251 et seq., or the Clean Air Act, 42 U.S.C. Sections 7401 et seq.

“IBA” means the ICE Benchmark Administration, the administrator of the London interbank offer rate.

“Increase Date” has the meaning specified in Section 2.05(b)(i).

“Increasing Lender” has the meaning specified in Section 2.05(b)(i).

"Indemnified Taxes" means (a) Taxes, other than Excluded Taxes, imposed on or with respect to any payment made by or on account of any obligation of a Credit Party under any Loan Document and (b) to the extent not otherwise described in (a), Other Taxes.

"Interest Payment Date" means (a) as to any Base Rate Advance or Daily Simple RFR Advance, the last Business Day of each March, June, September and December and the Termination Date and (b) as to any Eurocurrency Rate Advance or Term RFR Advance, the last day of each Interest Period therefor and, in the case of any Interest Period of more than three months' duration, each day prior to the last day of such Interest Period that occurs at three-month intervals after the first day of such Interest Period; provided, that each such three-month interval payment day shall be the immediately succeeding Business Day if such day is not a Business Day, unless such day is not a Business Day but is a day of the relevant month after which no further Business Day occurs in such month, in which case such day shall be the immediately preceding Business Day and the Termination Date.

"Interest Period" means, as to any Advance, the period commencing on the date such Advance is disbursed or converted to or, with respect to any Eurocurrency Rate Advance or Term RFR Advance, continued as a Eurocurrency Rate Advance or Term RFR Advance, as applicable, and ending on the date one, three or (except with respect to any Advance bearing interest based on the CDOR Rate) six months thereafter, in each case as selected by the applicable Borrower in its Notice of Borrowing or notice of Conversion and subject to availability; provided that:

(a) the Interest Period shall commence on the date of advance of or conversion to any Eurocurrency Rate Advance or Term RFR Advance, as applicable, and, in the case of immediately successive Interest Periods, each successive Interest Period shall commence on the date on which the immediately preceding Interest Period expires;

(b) if any Interest Period would otherwise expire on a day that is not a Business Day, such Interest Period shall expire on the next succeeding Business Day; provided that if any Interest Period would otherwise expire on a day that is not a Business Day but is a day of the month after which no further Business Day occurs in such month, such Interest Period shall expire on the immediately preceding Business Day;

(c) any Interest Period that begins on the last Business Day of a calendar month (or on a day for which there is no numerically corresponding day in the calendar month at the end of such Interest Period) shall end on the last Business Day of the relevant calendar month at the end of such Interest Period;

(d) the applicable Borrower may not select any Interest Period that ends after any Termination Date if, after giving effect thereto, the amount of such Borrowing would exceed the Commitments of Lenders for which a Termination Date prior to the last day of such Interest Period applies; and

(e) no tenor that has been removed from this definition pursuant to Section 2.20(c)(iv) shall be available for specification in any Notice of Borrowing or notice of Conversion.

"Internal Revenue Code" means the Internal Revenue Code of 1986, as amended from time to time, and the regulations promulgated and rulings issued thereunder.

"Investment" means (a) the purchase or acquisition of Equity Interests in or evidences of indebtedness of or other securities of, or all or substantially all of the assets of, any Person (whether for cash, property, services, assumption of Debt, securities or otherwise), (b) any

advance or loan to, any Person or (c) any other capital contribution to or investment in any Person, including, without limitation, any Guarantee of any obligations of such Person.

Lenders means the Initial Lenders, each Assuming Lender that shall become a party hereto pursuant to either Section 2.05(b) or Section 2.17 and each Person that shall become a party hereto pursuant to Section 2.19(b) or Section 9.07.

Lien means any lien, security interest or other charge or encumbrance of any kind, or any other type of preferential arrangement, including, without limitation, the lien or retained security title of a conditional vendor and any easement, right of way or other encumbrance on title to real property.

Loan Documents means this Agreement and the Notes.

London Banking Day means any day on which dealings in US Dollar deposits are conducted by and between banks in the London interbank market.

Margin Stock has the meaning assigned to such term under Regulation U of the Board of Governors of the Federal Reserve System of the United States as from time to time in effect and all official rulings and interpretations thereunder or thereof.

Material Adverse Effect means a material adverse effect on (a) the business, financial condition or results of operations of the Company and its Subsidiaries taken as a whole, (b) the rights and remedies of the Administrative Agent or any Lender under this Agreement or any other Loan Document or (c) the ability of any Credit Party to perform its obligations under this Agreement or any other Loan Document; provided, however, in no event shall the Purdue Transaction or any event, condition or circumstance resulting directly therefrom constitute a Material Adverse Effect.

Material Contract means any contract or other arrangement to which the Company or any of its Subsidiaries is a party that is required to be filed with the Securities and Exchange Commission (other than any such contract or other arrangement that is related to employee benefits or compensation).

Material Domestic Subsidiary means, as of any date of determination, any Wholly-Owned Domestic Subsidiary of the Company that, together with its Subsidiaries, (a) generated more than 5% of the Consolidated revenues of the Company and its Subsidiaries for the four fiscal quarter period most recently ended on or prior to such date or (b) owns more than 5% of the Consolidated Assets as of the last day of the most recently ended fiscal quarter of the Company.

Moody's means Moody's Investors Service, Inc.

Multicurrency Tranche Advance means an advance made by a Multicurrency Tranche Lender to a Borrower in US Dollars or any Foreign Currency as part of a Borrowing pursuant to Section 2.01(a).

Multicurrency Tranche Commitment means, with respect to each Multicurrency Tranche Lender at any time, (i) the US Dollar amount set forth opposite such Multicurrency Tranche Lender's name on Schedule I attached hereto and identified as such, (ii) if such Multicurrency Tranche Lender has become a Multicurrency Tranche Lender hereunder pursuant to an Assumption Agreement, the amount set forth as its Multicurrency Tranche Commitment in such Assumption Agreement or (iii) if such Multicurrency Tranche Lender has entered into one or more Assignment and Assumptions, the amount set forth for such Multicurrency Tranche

Lender in the Register maintained by the Administrative Agent pursuant to Section 9.07(c), as such amount may be increased, terminated or reduced, as the case may be, at or prior to such time pursuant to Section 2.05. The aggregate amount of the Multicurrency Tranche Commitments on the Effective Date is \$100,000,000.

Multicurrency Tranche Lender means each of the Lenders with Multicurrency Tranche Commitments or with outstanding Multicurrency Tranche Advances.

Multicurrency Tranche Unused Commitment means, with respect to any Multicurrency Tranche Lender at any time, (a) such Multicurrency Tranche Lender's Multicurrency Tranche Commitment in US Dollars at such time minus (b) the Dollar Equivalent of the aggregate principal amount of all Multicurrency Tranche Advances made by such Multicurrency Tranche Lender and outstanding at such time.

Multiemployer Plan means a multiemployer plan, as defined in Section 4001(a)(3) of ERISA, to which any Credit Party or any ERISA Affiliate is making or accruing an obligation to make contributions, or has within any of the preceding five plan years made or accrued an obligation to make contributions.

Multiple Employer Plan means a single employer plan, as defined in Section 4001(a)(15) of ERISA, that (a) is maintained for employees of any Credit Party or any ERISA Affiliate and at least one Person other than such Credit Party or such ERISA Affiliate or (b) was so maintained and in respect of which such Credit Party or such ERISA Affiliate could have liability under Section 4064 or 4069 of ERISA in the event such plan has been or were to be terminated.

National Currency Unit means a fraction or multiple of one Euro Unit expressed in units of the former national currency of a Participating Member State.

Non-Consenting Lender has the meaning specified in Section 2.17(b).

Non-Defaulting Lender means, at any time, each Lender that is not a Defaulting Lender at such time.

Non-Guarantor Subsidiary means any Subsidiary of the Company that is not a Guarantor.

Non-Recourse Debt means Debt of the Company or its Subsidiaries incurred (a) as to which neither the Company nor any of its Subsidiaries (i) provides credit support (including any undertaking, agreement or instrument which would constitute Debt), other than as described in clause (b) below, or has given or made other written assurances regarding repayment or the maintenance of capital or liquidity except such assurances as may be approved by the Required Lenders (such approval not to be unreasonably withheld or delayed), (ii) is directly or indirectly liable or (iii) constitutes the lender and (b) the obligees of which will have recourse solely to certain identified assets (the loss of which would not reasonably be expected to have a Material Adverse Effect) for repayment of the principal of and interest on such Debt and any fees, indemnities, expenses, reimbursements or other amounts of whatever nature accrued or payable in connection with such Debt.

Note means a promissory note of the applicable Borrower (bearing an original or facsimile signature) payable to any Lender, delivered pursuant to a request by any Lender, in substantially the form of Exhibit A hereto, evidencing the aggregate indebtedness of the applicable Borrower to such Lender resulting from the Advances made by such Lender.

“Notice of Borrowing” has the meaning specified in Section 2.02(a)(i).

“Notice of Continuation/Conversion” has the meaning specified in Section 2.09.

“OFAC” means the U.S. Department of the Treasury’s Office of Foreign Assets Control.

“Other Benchmark Rate Election” means, if the then-current Benchmark for Borrower Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, US Dollars, is the Adjusted Eurocurrency Rate for US Dollars, the occurrence of: (a) a notification by the Administrative Agent to (or the request by the Company to the Administrative Agent to notify) each of the other parties hereto that at least five currently outstanding US Dollar-denominated syndicated credit facilities at such time contain (as a result of amendment or as originally executed), in lieu of a USD LIBOR-based rate, a term benchmark rate that is not a SOFR-based rate as a benchmark rate (and such syndicated credit facilities are identified in such notice and are publicly available for review), and (b) the joint election by the Administrative Agent and the Company to trigger a fallback from the Adjusted Eurocurrency Rate for US Dollars and the provision by the Administrative Agent of written notice of such election to the Lenders.

“Other Connection Taxes” means, with respect to any Recipient, Taxes imposed as a result of a present or former connection between such Recipient and the jurisdiction imposing such Tax (other than connections arising from such Recipient having executed, delivered, become a party to, performed its obligations under, received payments under, received or perfected a security interest under, engaged in any other transaction pursuant to or enforced any Loan Document, or sold or assigned an interest in any Advance or Loan Documents).

“Other Parties” has the meaning assigned to such term in clause (c) of Section 8.07

“Other Taxes” means all present or future stamp or documentary Taxes or any other excise or property Taxes, charges or similar levies that arise from any payment made hereunder or from the execution, delivery or registration of, performing under, or otherwise with respect to, this Agreement, except any such Taxes that are Other Connection Taxes imposed with respect to an assignment (other than an assignment requested by the Company pursuant to Section 2.19(b)).

“Overnight Rate” means, for any day, (a) with respect to any amount denominated in US Dollars, the greater of (i) the Federal Funds Rate and (ii) an overnight rate determined by the Administrative Agent to be customary in the place of disbursement or payment for the settlement of international banking transactions, and (b) with respect to any amount denominated in a Foreign Currency, an overnight rate determined by the Administrative Agent to be customary in the place of disbursement or payment for the settlement of international banking transactions.

“Participant” has the meaning assigned to such term in clause (d) of Section 9.07.

“Participant Register” has the meaning assigned to such term in clause (d) of Section 9.07.

“Participating Member State” means each country so described in any EMU Legislation.

“Payment Recipient” has the meaning assigned to such term in Section 7.11(a).

“PBGC” means the Pension Benefit Guaranty Corporation (or any successor).

“Performance Level” means, as of any date of the determination, the level set forth below as then in effect, as determined in accordance with the following provisions of this definition:

Level I: Total Leverage Ratio of less than 1.00 to 1.00.

Level II: Total Leverage Ratio of greater than or equal to 1.00 to 1.00 but less than 2.00 to 1.00.

Level III: Total Leverage Ratio of greater than or equal to 2.00 to 1.00.

“Permitted Investments” means:

(a) direct obligations of, or obligations the principal of and interest on which are unconditionally guaranteed by, the United States of America (or by any agency thereof to the extent such obligations are backed by the full faith and credit of the United States of America), in each case maturing within one year from the date of acquisition thereof;

(b) investments in commercial paper maturing within 270 days from the date of acquisition thereof and having, at such date of acquisition, a rating of A1 (or higher) by S&P or P1 (or higher) by Moody's;

(c) investments in certificates of deposit, banker's acceptances and demand or time deposits, in each case maturing within 180 days from the date of acquisition thereof, issued or guaranteed by or placed with, and money market deposit accounts issued or offered by, any domestic office of any commercial bank organized under the laws of the United States of America or any State thereof that has a combined capital and surplus and undivided profits of not less than \$500,000,000;

(d) fully collateralized repurchase agreements with a term of not more than 30 days for securities described in clause (a) above and entered into with a financial institution satisfying the criteria described in clause (c) above;

(e) “money market funds” that (i) comply with the criteria set forth in Rule 2a-7 of the Investment Company Act, (ii) are rated AAA by S&P and Aaa by Moody's and (iii) have portfolio assets of at least \$5,000,000,000; and

(f) in the case of any Foreign Subsidiary, other short-term investments that are analogous to the foregoing, are of comparable credit quality and are customarily used by companies in the jurisdiction of such Foreign Subsidiary for cash management purposes.

“Permitted Liens” means any of the following:

(a) Liens for taxes, assessments and governmental charges or levies to the extent not required to be paid under Section 5.01(b) hereof;

(b) Liens imposed by law, such as materialmen's, mechanics', carriers', workmen's and repairmen's Liens and other similar Liens arising in the ordinary course of business securing obligations (other than Debt) that (i) are not overdue for a period of more than 120 days or (ii) are being contested in good faith and by proper proceedings and as to which appropriate reserves are being maintained in accordance with GAAP;

(c) pledges or deposits to secure obligations under workers' compensation laws or similar legislation or to secure public or statutory obligations;

(d) Liens securing the performance of or payment in respect of, bids, tenders, government contracts (other than for the repayment of Debt), surety and appeal bonds and other obligations of a similar nature incurred in the ordinary course of business; and

(e) easements, rights of way and other encumbrances on title to real property that do not materially adversely affect the use of such property for its present purposes.

“Person” means an individual, partnership, corporation (including a business trust), joint stock company, trust, unincorporated association, joint venture, limited liability company or other entity, or a government or any political subdivision or agency thereof.

“Plan” means a Single Employer Plan or a Multiple Employer Plan subject to the provisions of Title IV of ERISA or Section 412 of the Internal Revenue Code or Section 302 of ERISA.

“Platform” has the meaning specified in Section 9.02(d)(ii).

“Prime Rate” means, at any time, the rate of interest per annum publicly announced from time to time by the Administrative Agent as its prime rate. Each change in the Prime Rate shall be effective as of the opening of business on the day such change in such prime rate occurs. The parties hereto acknowledge that the rate announced publicly by the Administrative Agent as its prime rate is an index or base rate and shall not necessarily be its lowest or best rate charged to its customers or other banks.

“Pro Forma Basis” means, with respect to any transaction, that such transaction shall be deemed to have occurred as of the first day of the four-quarter period (or twelve month period, as applicable) ending as of the most recent quarter end (or month end, as applicable) preceding the date of such transaction.

“Properties” has the meaning ascribed to such term in clause (o) of Section 4.01.

“PTE” means a prohibited transaction class exemption issued by the U.S. Department of Labor, as any such exemption may be amended from time to time.

“Purdue Transaction” means the contribution of institutional assets and operations of Kaplan University to an Indiana non-profit, public-benefit corporation that is a subsidiary affiliated with Purdue University, pursuant to that certain Transition and Operations Support Agreement, dated March 22, 2018, by and among Kaplan Higher Education, LLC, Iowa College Acquisition, LLC and Purdue University Global, Inc.

“QFC” has the meaning specified in Section 9.20(b).

“Rate Determination Date” means, with respect to any Interest Period, two Eurocurrency Bank Days prior to the commencement of such Interest Period (or such other day as is generally treated as the rate fixing day by market practice in such interbank market, as determined by the Administrative Agent; provided that to the extent that such market practice is not administratively feasible for the Administrative Agent, such other day as otherwise reasonably determined by the Administrative Agent).

“Recipient” means (a) the Administrative Agent and (b) any Lender.

“Reference Time” with respect to any setting of the then-current Benchmark for any Currency means (a) if such Benchmark is an Adjusted Daily Simple RFR or a Daily Simple RFR, (i) if the RFR for such Benchmark is SOFR, then four RFR Business Days prior to (A) if the date of such setting is an RFR Business Day, such date or (B) if the date of such setting is not an RFR Business Day, the RFR Business Day immediately preceding such date, (ii) if the RFR for such Benchmark is SONIA, then four RFR Business Days prior to (A) if the date of such setting is an RFR Business Day, such date or (B) if the date of such setting is not an RFR

Business Day, the RFR Business Day immediately preceding such date, and (iii) if the RFR for such Benchmark is SORA, then five RFR Business Days prior to (A) if the date of such setting is an RFR Business Day, such date or (B) if the date of such setting is not an RFR Business Day, the RFR Business Day immediately preceding such date, (b) if such Benchmark is an Adjusted Eurocurrency Rate, (i) if the applicable Adjusted Eurocurrency Rate for such Benchmark is based upon USD LIBOR, then 11:00 a.m. (London time) on the day that is two Eurocurrency Banking Days preceding the date of such setting, and (ii) if the applicable Adjusted Eurocurrency Rate for such Benchmark is based upon EURIBOR, then 11:00 a.m. (Brussels time) on the day that is two Eurocurrency Banking Days preceding the date of such setting, and (c) if otherwise, then the time determined by the Administrative Agent, including in accordance with the Conforming Changes.

“Register” has the meaning specified in Section 9.07(d).

“Related Parties” means, with respect to any Person, such Person’s Affiliates and the partners, directors, officers, employees, agents, trustees, administrators, managers, advisors and representatives of such Person and of such Person’s Affiliates.

“Relevant Governmental Body” means (a) with respect to a Benchmark Replacement in respect of Borrower Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, US Dollars, the FRB or the Federal Reserve Bank of New York, or a committee officially endorsed or convened by the FRB or the Federal Reserve Bank of New York, or any successor thereto and (b) with respect to a Benchmark Replacement in respect of Borrower Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, any Foreign Currency, (1) the central bank for the Currency in which such Borrower Obligations, interest, fees, commissions or other amounts are denominated, or calculated with respect to, or any central bank or other supervisor which is responsible for supervising either (A) such Benchmark Replacement or (B) the administrator of such Benchmark Replacement or (2) any working group or committee officially endorsed or convened by (A) the central bank for the Currency in which such Borrower Obligations, interest, fees, commissions or other amounts are denominated, or calculated with respect to, (B) any central bank or other supervisor that is responsible for supervising either (i) such Benchmark Replacement or (ii) the administrator of such Benchmark Replacement, (C) a group of those central banks or other supervisors or (D) the Financial Stability Board or any part thereof.

“Required Lenders” means at any time Lenders having more than 50% of the Commitments or, if the Commitments have been terminated, Lenders owed at least a majority of the then aggregate unpaid principal amount of the Advances; provided that if any Lender shall be a Defaulting Lender at such time, there shall be excluded from the determination of Required Lenders at such time the Commitments and Advances of such Defaulting Lender at such time.

“Resolution Authority” means an EEA Resolution Authority or, with respect to any UK Financial Institution, a UK Resolution Authority.

“Restricted Payment” means any dividend or other distribution (whether in cash, securities or other property) with respect to any Equity Interest of the Company, or any payment (whether in cash, securities or other property), including any sinking fund or similar deposit, on account of the purchase, redemption, retirement, acquisition, cancellation or termination of any such Equity Interest, or on account of any return of capital to the parent of the Company’s stockholders, partners or members.

“Revaluation Date” means each of the following: (a) each date an Advance is made pursuant to Section 2.01 or is continued; (b) the last Business Day of each calendar month; and

(c) such additional dates as the Administrative Agent or the Required Lenders shall reasonably specify.

RFR means, for any Borrower Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, (a) US Dollars, on and after the USD LIBOR Transition Date, SOFR, (b) Sterling, SONIA and (c) Singapore Dollars, SORA.

RFR Advance means a Daily Simple RFR Advance or a Term RFR Advance, as the context may require.

RFR Business Day means, for any Borrower Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, (a) US Dollars, on and after the USD LIBOR Transition Date, any day except for (i) a Saturday, (ii) a Sunday or (iii) a day on which the Securities Industry and Financial Markets Association recommends that the fixed income departments of its members be closed for the entire day for purposes of trading in United States government securities, (b) Sterling, any day except for (i) a Saturday, (ii) a Sunday or (iii) a day on which banks are closed for general business in London and (c) Singapore Dollars, any day except for (i) a Saturday, (ii) a Sunday or (iii) a day on which banks are closed for the settlement of payments and foreign exchange transactions in Singapore; provided, that for purposes of notice requirements in Sections 2.02, 2.05, 2.06, 2.09, and 2.10, in each case, such day is also a Business Day.

RFR Rate Day means any day pursuant to which any calculation of Adjusted Daily Simple RFR or Daily Simple RFR is made.

S&P means Standard & Poor's Ratings Group, a division of The McGraw-Hill Companies, Inc.

Same Day Funds means (a) with respect to disbursements and payments in US Dollars, immediately available funds, and (b) with respect to disbursements and payments in a Foreign Currency, same day or other funds as may be determined by the Administrative Agent to be customary in the place of disbursement or payment for the settlement of international banking transactions in the relevant Foreign Currency.

Sanctioned Country means at any time, a country or territory which is itself the subject or target of any Sanctions (including, as of the time of this Agreement, Cuba, Iran, North Korea, Syria and Crimea).

Sanctioned Entity means (a) any Sanctioned Country or (b) (i) any Sanctioned Person, (ii) any Person organized or resident in or determined to be organized or resident in a Sanctioned Country or (iii) any Person owned or controlled by any Sanctioned Person or any Person referred to in clause (b)(ii).

Sanctioned Person means, at any time, a Person listed in any Sanctions-related list maintained by OFAC, the U.S. Department of State or by the United Nations Security Council, the European Union, Her Majesty's Treasury of the United Kingdom, any European Union member state, the Australian Department of Foreign Affairs and Trade or otherwise the subject of any Sanctions.

Sanctions means all economic or financial sanctions, sectoral sanctions, secondary sanctions or trade embargoes imposed, administered or enforced from time to time by (a) the U.S. government (including those administered by the Office of Foreign Assets Control of the U.S. Department of the Treasury or the U.S. Department of State), or (b) the United Nations Security Council, the European Union, any European Union member state, Her Majesty's

Treasury of the United Kingdom, the Australian Department of Foreign Affairs and Trade or other relevant sanctions authority with jurisdiction over the Company or any of its Subsidiaries.

“Screen Rate” means, for any Eurocurrency Rate Advance denominated in (a) US Dollars, the USD LIBOR Rate, (b) Euros, the EURIBOR Rate, (c) Australian Dollars, the BBSY Rate or (d) Canadian Dollars, the CDOR Rate.

“Significant Subsidiary” means any Subsidiary that would be a “significant subsidiary” within the meaning of Rule 1-02 of the SEC’s Regulation S-X.

“Singapore Dollar” or “SGD” means Singapore Dollars, the lawful currency of Singapore.

“Single Employer Plan” means a single employer plan, as defined in Section 4001(a)(15) of ERISA, that (a) is maintained for employees of any Borrower or any ERISA Affiliate and no Person other than the Borrowers and the ERISA Affiliates or (b) was so maintained and in respect of which any Borrower or any ERISA Affiliate could have liability under Section 4069 of ERISA in the event such plan has been or were to be terminated.

“SOFR” means a rate equal to the secured overnight financing rate as administered by the SOFR Administrator.

“SOFR Adjustment” means a percentage equal to 0.10% (10 basis points) per annum.

“SOFR Administrator” means the Federal Reserve Bank of New York (or a successor administrator of the secured overnight financing rate).

“SOFR Administrator’s Website” means the website of the Federal Reserve Bank of New York, currently at <http://www.newyorkfed.org>, or any successor source for the secured overnight financing rate identified as such by the SOFR Administrator from time to time.

“SONIA” means a rate equal to the Sterling Overnight Index Average as administered by the SONIA Administrator.

“SONIA Administrator” means the Bank of England (or any successor administrator of the Sterling Overnight Index Average).

“SONIA Administrator’s Website” means the Bank of England’s website, currently at <http://www.bankofengland.co.uk>, or any successor source for the Sterling Overnight Index Average identified as such by the SONIA Administrator from time to time.

“SORA” means a rate equal to the Singapore Overnight Rate Average as administered by the SORA Administrator.

“SORA Administrator” means the Monetary Authority of Singapore (or any successor administrator of the Singapore Overnight Rate Average).

“SORA Administrator’s Website” means the Monetary Authority of Singapore’s website, currently at <https://eservices.mas.gov.sg>, or any successor source for the Singapore Overnight Rate Average identified as such by the SORA Administrator from time to time.

“Special Notice Currency” means, at any time, a Foreign Currency other than the currency of a country that is a member of the Organization for Economic Cooperation and Development at such time located in North America.

“Spot Rate” means, for any Currency, the rate for such Currency reasonably determined by the Administrative Agent, to be the rate quoted by the Person acting in such capacity, as the spot rate for the purchase by such Person of such currency with another currency through its principal foreign exchange trading office at approximately 11:00 a.m. (New York City time) on the date two Business Days prior to the date as of which the foreign exchange computation is made; provided that the Administrative Agent may obtain such spot rate from another financial institution designated by the Administrative Agent if the Person acting in such capacity does not have as of the date of determination a spot buying rate for any such currency.

“Subsidiary” of any Person means any corporation, partnership, joint venture, limited liability company, trust or estate of which (or in which) more than 50% of (a) the issued and outstanding capital stock having ordinary voting power to elect a majority of the board of directors of such corporation (irrespective of whether at the time capital stock of any other class or classes of such corporation shall or might have voting power upon the occurrence of any contingency), (b) the interest in the capital or profits of such limited liability company, partnership or joint venture or (c) the beneficial interest in such trust or estate is at the time directly or indirectly owned or controlled by such Person, by such Person and one or more of its other Subsidiaries or by one or more of such Person’s other Subsidiaries.

“Sterling” or **“£”** means the lawful currency of the United Kingdom.

“TARGET2” means the Trans-European Automated Real-time Gross Settlement Express Transfer payment system which utilizes a single shared platform and which was launched on November 19, 2007.

“TARGET Day” means any day on which TARGET2 is open for the settlement of payments in Euros.

“Taxes” means all present or future taxes, levies, imposts, duties, deductions, withholdings (including backup withholding), assessments, fees, or other charges imposed by any Governmental Authority, including any interest, additions to tax or penalties applicable thereto.

“Term RFR” means, with respect to any Currency for any Interest Period, a rate per annum equal to, for any Borrower Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, US Dollars, Adjusted Term SOFR.

“Term RFR Advance” means any Advance that bears interest at a rate based on Term RFR other than pursuant to clause (c) of the definition of “Base Rate”.

“Term RFR Notice” means a notification by the Administrative Agent to the Lenders and the Company of the occurrence of a Term RFR Transition Event.

“Term RFR Transition Date” means, in the case of a Term RFR Transition Event, the date that is thirty calendar days after the Administrative Agent has provided the related Term RFR Notice to the Lenders and the Company pursuant to Section 2.20(c)(i)(C).

“Term RFR Transition Event” means, with respect to any Currency for any Interest Period, the determination by the Administrative Agent that (a) the applicable Term RFR for such Currency has been recommended for use by the Relevant Governmental Body and (b) the administration of such Term RFR is administratively feasible for the Administrative Agent.

“Term SOFR” means, for any Available Tenor and Interest Period, a rate per annum equal to the forward-looking term rate for a period comparable to such Available Tenor based on

the SOFR that is published by an authorized benchmark administrator and is displayed on a screen or other information service, each as identified or selected by the Administrative Agent in its reasonable discretion at approximately a time and as of a date prior to the commencement of such Interest Period determined by the Administrative Agent in its reasonable discretion in a manner substantially consistent with market practice

“Term SOFR Adjustment” means, for any calculation with respect to a Base Rate Advance for which the rate is based on Adjusted Term SOFR or a Term RFR Advance, a percentage equal to 0.10% (10 basis points) per annum.

“Termination Date” means the earlier of (a) May 30, 2023, subject to the extension thereof pursuant to Section 2.17 and (b) the date of termination of all of the Commitments pursuant to Section 2.05 or 6.01; provided, however, that the Termination Date of any Lender that is a Non-Consenting Lender to any requested extension pursuant to Section 2.17 shall be the Termination Date in effect immediately prior to the applicable Extension Date for all purposes of this Agreement.

“Total Leverage Ratio” means, as of any date of determination, for the Company and its Subsidiaries on a Consolidated basis, the ratio of (a) Consolidated Debt as of such date to (b) Consolidated EBITDA for the most recent period of four consecutive quarters ending on or prior to such date.

“Total Net Leverage Ratio” means, as of any date of determination, for the Company and its Subsidiaries on a Consolidated basis, the ratio of (a) (i) Consolidated Debt as of such date less (ii) unrestricted cash and cash equivalents of the Company and its Subsidiaries on such date in an aggregate amount not to exceed \$100,000,000 to (b) Consolidated EBITDA for the most recent period of four consecutive quarters ending on or prior to such date.

“Trading with the Enemy Act” has the meaning assigned to such term in clause (l) of Section 4.01.

“Tranche” means a category of Commitments and extensions of credit thereunder. For purposes hereof, each of the following comprises a separate Tranche: (a) the Multicurrency Tranche Commitments and (b) the US Tranche Commitments.

“Type”, means, when used in reference to any Advance or Borrowing, refers to whether the rate of interest on such Advance, or on the Advances comprising such Borrowing, is determined by reference to the Base Rate or the Eurocurrency Rate, or that such Advance is a Daily Simple RFR Advance or a Term RFR Advance.

“UK Financial Institution” means any BRRD Undertaking (as such term is defined under the PRA Rulebook (as amended from time to time) promulgated by the United Kingdom Prudential Regulation Authority) or any person falling within IFPRU 11.6 of the FCA Handbook (as amended from time to time) promulgated by the United Kingdom Financial Conduct Authority, which includes certain credit institutions and investment firms, and certain affiliates of such credit institutions or investment firms.

“Unadjusted Benchmark Replacement” means the applicable Benchmark Replacement excluding the related Benchmark Replacement Adjustment.

“United States” means the United States of America.

“Unused Commitments” means, collectively, the Multicurrency Tranche Unused Commitments and the US Tranche Unused Commitments.

“US Dollars” and “\$” means lawful money of the United States.

“US Tranche Advance” means an advance made by a US Tranche Lender to the Company in US Dollars as part of a Borrowing pursuant to Section 2.01(b).

“US Tranche Commitment” means, with respect to each US Tranche Lender at any time, (i) the US Dollar amount set forth opposite such US Tranche Lender’s name on Schedule II attached hereto and identified as such, (ii) if such US Tranche Lender has become a US Tranche Lender hereunder pursuant to an Assumption Agreement, the amount set forth as its US Tranche Commitment in such Assumption Agreement or (iii) if such US Tranche Lender has entered into one or more Assignment and Assumptions, the amount set forth for such US Tranche Lender in the Register maintained by the Administrative Agent pursuant to Section 9.07(c), as such amount may be increased, terminated or reduced, as the case may be, at or prior to such time pursuant to Section 2.05. The aggregate amount of the US Tranche Commitments on the Effective Date is \$200,000,000.

“US Tranche Lender” means each of the Lenders with US Tranche Commitments or with outstanding US Tranche Advances.

“US Tranche Unused Commitment” means, with respect to any US Tranche Lender at any time, (a) such US Tranche Lender’s US Tranche Commitment at such time minus (b) the aggregate principal amount of all US Tranche Advances made by such US Tranche Lender and outstanding at such time.

“USD LIBOR” has the meaning assigned thereto in the definition of “Eurocurrency Rate”.

“USD LIBOR Rate” has the meaning assigned thereto in the definition of “Eurocurrency Rate”.

“USD LIBOR Transition Date” means, the earlier of (a) the date that all Available Tenors of USD LIBOR have either (i) permanently or indefinitely ceased to be provided by IBA; provided that, at the time of such statement or publication, there is no successor administrator that will continue to provide any Available Tenor of USD LIBOR or (ii) been announced by the FCA pursuant to public statement or publication of information to be no longer representative and (b) the Early Opt-in Effective Date, so long as, in the case of (a) or (b), a Benchmark Replacement has not as of such date replaced the Adjusted Eurocurrency Rate for US Dollars pursuant to Section 2.20(c)(i) as the result of an Other Benchmark Rate Election.

“Voting Stock” means capital stock issued by a corporation, or equivalent interests in any other Person, the holders of which are ordinarily, in the absence of contingencies, entitled to vote for the election of not less than a majority of the directors (or persons performing similar functions) of such Person, even if the right so to vote has been suspended by the happening of such a contingency.

“Wholly-Owned” means, with respect to a Subsidiary, that all of the Equity Interests of such Subsidiary are, directly or indirectly, owned or controlled by the Company and/or one or more of its Wholly-Owned Subsidiaries (except for directors’ qualifying shares or other shares required by Applicable Law to be owned by a Person other than the Company and/or one or more of its Wholly-Owned Subsidiaries).

“Write-Down and Conversion Powers” means (a) with respect to any EEA Resolution Authority, the write-down and conversion powers of such EEA Resolution Authority from time to time under the Bail-In Legislation for the applicable EEA Member Country, which write-

down and conversion powers are described in the EU Bail-In Legislation Schedule and (b) with respect to the United Kingdom, any powers of the applicable Resolution Authority under the Bail-In Legislation to cancel, reduce, modify or change the form of a liability of any UK Financial Institution or any contract or instrument under which that liability arises, to convert all or part of that liability into shares, securities or obligations of that person or any other person, to provide that any such contract or instrument is to have effect as if a right had been exercised under it or to suspend any obligation in respect of that liability or any of the powers under that Bail-In Legislation that are related to or ancillary to any of those powers.

SECTION 1.02. Computation of Time Periods. In this Agreement in the computation of periods of time from a specified date to a later specified date, the word "from" means "from and including" and the words "to" and "until" each mean "to but excluding".

SECTION 1.03. Accounting Terms. All terms of an accounting or financial nature shall be construed in accordance with generally accepted accounting principles ("GAAP"), as in effect from time to time; provided, however, that if the Company notifies the Administrative Agent that the Borrowers wish to amend any provision hereof to eliminate the effect of any change in GAAP or the application thereof occurring after the date of this Agreement on the operation of such provision, or if the Administrative Agent notifies the Company that the Required Lenders wish to amend any provision hereof for such purpose, then the Borrowers' compliance with such provision shall be determined on the basis of GAAP in effect immediately before the relevant change in GAAP or the application thereof became effective, until either such notice is withdrawn or such provision is amended in a manner satisfactory to the Company and the Required Lenders. Notwithstanding any other provision contained herein, all terms of an accounting or financial nature used herein shall be construed, and all computations of amounts and ratios referred to herein shall be made, without giving effect to any change in accounting for leases pursuant to GAAP resulting from the implementation of Financial Accounting Standards Board ASU No. 2016-02, Leases (Topic 842), to the extent such adoption would require treating any lease (or similar arrangement conveying the right to use) as a capital lease where such lease (or similar arrangement) would not have been required to be so treated under GAAP as in effect on December 31, 2015.

SECTION 1.04. Guarantees. Unless otherwise specified, the amount of any Guarantee shall be the lesser of the principal amount of the obligations guaranteed and still outstanding and the maximum amount for which the guaranteee Person may be liable pursuant to the terms of the instrument embodying such Guarantee.

SECTION 1.05. Redenominations of Certain Foreign Currencies and Computation of US Dollar Amounts; Exchange Rates; Currency Equivalents.

(a) Each obligation of each Borrower to make a payment denominated in the National Currency Unit of any member state of the European Union that adopts the Euro as its lawful currency after the date hereof shall be redenominated into Euro at the time of such adoption (in accordance with the EMU Legislation). If, in relation to the currency of any such member state, the basis of accrual of interest expressed in this Agreement in respect of that currency shall be inconsistent with any convention or practice in the London or applicable offshore interbank market for the basis of accrual of interest in respect of the Euro, such expressed basis shall be replaced by such convention or practice with effect from the date on which such member state adopts the Euro as its lawful currency; provided that if any Advance in the currency of such member state is outstanding immediately prior to such date, such replacement shall take effect, with respect to such Advance, at the end of the then current Interest Period.

(b) Each provision of this Agreement shall be subject to such reasonable changes of construction as the Administrative Agent and the Company may from time to time agree to be appropriate to reflect the adoption of the Euro by any member state of the European Union and any relevant market conventions or practices relating to the Euro.

(c) The Administrative Agent shall reasonably determine the Spot Rate as of each Revaluation Date to be used for calculating the Dollar Equivalents of Advances and amounts outstanding hereunder denominated in a Foreign Currency. Such Spot Rate shall become effective as of such Revaluation Date and shall be the Spot Rate employed in converting any amounts between the applicable Currencies until the next Revaluation Date to occur.

(d) Wherever in this Agreement, in connection with any Advance, any conversion, continuation or prepayment of an Advance, an amount, such as a required minimum or multiple amount, is expressed in US Dollars, but such Advance is denominated in a Foreign Currency, such amount shall be the relevant Foreign Currency Equivalent, as reasonably determined by the Administrative Agent.

(e) Wherever in this Agreement an amount is expressed in US Dollars, it shall be deemed to refer to the Dollar Equivalent or Foreign Currency Equivalent thereof, as applicable.

(f) Determinations by the Administrative Agent pursuant to this Section 1.05 shall be conclusive absent demonstrable error.

(g) Subject to the provisions of Section 9.16, each provision in this Agreement relating to payments to be made by any Borrower on account of principal, interest and fees which requires payment in US Dollars, shall be deemed to mean (i) in the case of Advances or other amounts denominated in US Dollars, payment in US Dollars, and (ii) in the case of Advances or other amounts denominated in a Foreign Currency, payment in such Foreign Currency.

SECTION 1.06. Rates. The interest rate on Advances denominated in US Dollars or a Foreign Currency may be determined by reference to a benchmark rate that is, or may in the future become, the subject of regulatory reform or cessation. Regulators have signaled the need to use alternative reference rates for some of these benchmark rates and, as a result, such benchmark rates may cease to comply with Applicable Laws and regulations, may be permanently discontinued or the basis on which they are calculated may change. The London interbank offered rate, which may be one of the benchmark rates with reference to which the interest rate on Advances may be determined, is intended to represent the rate at which contributing banks may obtain short-term borrowings from each other in the London interbank market. On March 5, 2021, the IBA and the Financial Conduct Authority (the “FCA”), the regulatory supervisor of IBA, announced in public statements (the “Announcements”) that the final publication or representativeness date for the London interbank offered rate for: (a) Sterling and Euros will be December 31, 2021, (b) US Dollars for 1-week and 2-month tenor settings will be December 31, 2021 and (c) US Dollars for overnight, 1-month, 3-month, 6-month and 12-month tenor settings will be June 30, 2023. No successor administrator for IBA was identified in such Announcements. As a result, it is possible that commencing immediately after such dates, the London interbank offered rate for such currencies and tenors may no longer be available or may no longer be deemed a representative reference rate upon which to determine the interest rate on applicable Advances. There is no assurance that the dates set forth in the Announcements will not change or that IBA or the FCA will not take further action that could impact the availability, composition or characteristics of any London interbank offered rate. Public and private sector industry initiatives have been and continue, as of the First Amendment Effective Date, to be underway to implement new or alternative reference rates to be used in place of London interbank offered rates. In the event that the London interbank offered rate or any other then-current Benchmark is no longer available or in certain other circumstances set forth in

Section 2.20(c), such Section 2.20(c) provides a mechanism for determining an alternative rate of interest. The Administrative Agent will notify the Company, pursuant to Section 2.20(c), of any change to the reference rate upon which the interest rate on Advances is based. However, the Administrative Agent does not warrant or accept any responsibility for, and shall not have any liability with respect to, (i) the continuation of, administration of, submission of, calculation of or any other matter related to the London interbank offered rate, the rates in the definition of "Eurocurrency Rate" or any other Benchmark, or any component definition thereof or rates referenced in the definition thereof, or with respect to any alternative, successor or replacement rate thereto (including any then-current Benchmark or any Benchmark Replacement), including whether the composition or characteristics of any such alternative, successor or replacement rate (including any Benchmark Replacement), as it may or may not be adjusted pursuant to Section 2.20(c), will be similar to, or produce the same value or economic equivalence of, or have the same volume or liquidity as, such Benchmark or any other Benchmark prior to its discontinuance or unavailability, or (ii) the effect, implementation or composition of any Conforming Changes. The Administrative Agent and its Affiliates or other related entities may engage in transactions that affect the calculation of a Benchmark, any alternative, successor or replacement rate (including any Benchmark Replacement) or any relevant adjustments thereto and such transactions may be adverse to the Borrowers. The Administrative Agent may select information sources or services in its reasonable discretion to ascertain any Benchmark, any component definition thereof or rates referred to in the definition thereof, in each case pursuant to the terms of this Agreement, and shall have no liability to any Borrower, any Lender or any other person or entity for damages of any kind, including direct or indirect, special, punitive, incidental or consequential damages, costs, losses or expenses (whether in tort, contract or otherwise and whether at law or in equity), for any error or calculation of any such rate (or component thereof) provided by any such information source or service.

ARTICLE II AMOUNTS AND TERMS OF THE ADVANCES

SECTION 1.01. The Advances.

(a) Subject to the terms and conditions of this Agreement and the other Loan Documents, and in reliance upon the representations and warranties set forth in this Agreement and the other Loan Documents, each Multicurrency Tranche Lender severally agrees to make Multicurrency Tranche Advances to the Borrowers (including the Company) in US Dollars and Foreign Currencies from time to time from the Effective Date through, but not including, the Termination Date as requested by the Company, on behalf of one or more Borrowers, in accordance with the terms of Section 2.02; provided, that (i) Multicurrency Tranche Advances made by any Multicurrency Tranche Lender shall not at any time exceed such Multicurrency Tranche Lender's Multicurrency Tranche Unused Commitment and (ii) a Multicurrency Tranche Lender may designate an Applicable Lending Office as a lender of all or a portion of its Multicurrency Tranche Commitment under this Agreement. Subject to the terms and conditions hereof, the Borrowers may borrow, repay and reborrow Multicurrency Tranche Advances hereunder until the Termination Date. Each Multicurrency Tranche Advance shall be comprised entirely of (i) in the case of a Multicurrency Tranche Advance denominated in Euros or other Currencies (other than US Dollars, Sterling or Singapore Dollars), Eurocurrency Rate Advances, (ii) in the case of a Multicurrency Tranche Advance denominated in Sterling, Daily Simple RFR Advances, (iii) in the case of a Multicurrency Tranche Advance denominated in Singapore Dollars, Daily Simple RFR Advances and (iv) in the case of a Multicurrency Tranche Advance denominated in US Dollars, (a) with respect to Revolving Credit Advances denominated in US Dollars, (A) Base Rate Advances or (B)(I) prior to the USD LIBOR Transition Date, Eurocurrency Rate Advances or (II) on and after the USD LIBOR Transition Date, (1) if the Benchmark Replacement that has replaced USD LIBOR pursuant to Section 2.20(c)(i) is Adjusted Daily Simple RFR for US Dollars, then (x) prior to the Term RFR Transition Date for

US Dollars, Daily Simple RFR Advances or (y) on and after the Term RFR Transition Date for US Dollars, Term RFR Advances or (2) if the Benchmark Replacement that has replaced USD LIBOR pursuant to Section 2.20(c)(i) is Adjusted Term SOFR, Term RFR Advances, each as further provided herein, in each case as the Company, on behalf of one or more Borrowers, may request in accordance therewith.

(b) Subject to the terms and conditions of this Agreement and the other Loan Documents, and in reliance upon the representations and warranties set forth in this Agreement and the other Loan Documents, each US Tranche Lender severally agrees to make US Tranche Advances to the Company in US Dollars from time to time from the Effective Date through, but not including, the Termination Date as requested by the Company in accordance with the terms of Section 2.02; provided, that US Tranche Advances made by any US Tranche Lender shall not at any time exceed such US Tranche Lender's US Tranche Unused Commitment. Subject to the terms and conditions hereof, the Company may borrow, repay and reborrow US Tranche Advances hereunder until the Termination Date. Each US Tranche Advance shall be comprised entirely of (i) Eurocurrency Rate Advances or (ii) Base Rate Advances, as the Company may request in accordance therewith.

(c) Notwithstanding any provision in the Loan Documents to the contrary, no Foreign Borrower or other Foreign Subsidiary shall be liable for Advances made to the Company or other Borrower Obligations of the Company.

SECTION 1.02. Making the Advances.

(a) The Company, on behalf of one or more Borrowers in the case of a Multicurrency Tranche Advance, shall give the Administrative Agent irrevocable prior written notice substantially in the form of Exhibit B-1 (a "Notice of Borrowing") not later than 11:00 a.m. (New York City time) in the case of any Advance denominated in US Dollars and not later than the Applicable Time specified by the Administrative Agent in the case of any Advance denominated in a Foreign Currency (i) on (x) the same Business Day as each Base Rate Advance to the Company that will be funded in the United States and (y) the date that is at least two Business Days before each other Base Rate Advance (including any Base Rate Advance to a Foreign Borrower) and (ii)(A) in the case of a Daily Simple RFR Advance denominated in US Dollars, at least five RFR Business Days before such Daily Simple RFR Advance, (B) in the case of a Term RFR Advance denominated in US Dollars, at least three RFR Business Days before such Daily Simple RFR Advance, (C) in the case of a Eurocurrency Rate Advance denominated in US Dollars, at least three Eurocurrency Banking Days before such Eurocurrency Rate Advance, (D) in the case of an RFR Advance denominated in any Foreign Currency, at least five RFR Business Days before such RFR Advance, and (E) in the case of a Eurocurrency Rate Advance denominated in any Foreign Currency, at least four Eurocurrency Banking Days before such Eurocurrency Rate Advance (or five Eurocurrency Banking Days in the case of a Special Notice Currency), of its intention to borrow, specifying (A) the date of such Borrowing, which shall be a Business Day, (B) the amount of such Borrowing, which shall be, (x) with respect to Base Rate Advances, in an aggregate principal amount of \$3,000,000 or a Foreign Currency Equivalent thereof or a whole multiple of \$1,000,000 or a Foreign Currency Equivalent thereof in excess thereof and (y) with respect to Eurocurrency Rate Advances and RFR Advances, in an aggregate principal amount of \$5,000,000 or a Foreign Currency Equivalent thereof or a whole multiple of \$1,000,000 or a Foreign Currency Equivalent thereof in excess thereof, (C) whether the Advances are to be Eurocurrency Rate Advances, Daily Simple RFR Advances, Term RFR Advances or Base Rate Advances, (D) whether the Advances are to be Multicurrency Tranche Advances or US Tranche Advances and the Currency of such Advances, (E) in the case of a Eurocurrency Rate Advance or a Term RFR Advance, the duration of the Interest Period applicable thereto, and (F) in the case of a Multicurrency Tranche Advance, the applicable Borrower. If the Company fails to specify a Tranche of Advance in a Notice of Borrowing for

Advances to be made in US Dollars, then the applicable Advances shall be made as US Tranche Advances. If the Company fails to specify a type of Advance in a Notice of Borrowing, then the applicable Advances shall be made as Base Rate Advances. If the Company fails to specify a Borrower, the Borrower shall be the Company. If the Company requests a Borrowing of Eurocurrency Rate Advances or Term RFR Advance in any such Notice of Borrowing, but fails to specify an Interest Period, it will be deemed to have specified an Interest Period of one month. A Notice of Borrowing received after 11:00 a.m. (New York City time) shall be deemed received on the next Business Day, RFR Business Day or Eurocurrency Banking Day, as applicable. The Administrative Agent shall promptly notify the Lenders of each Notice of Borrowing.

(b) Not later than 1:00 p.m. (New York City time), in the case of any Advance denominated in US Dollars and not later than the Applicable Time specified by the Administrative Agent in the case of any Advance denominated in a Foreign Currency, in each case on the proposed borrowing date, each Lender will make available to the Administrative Agent, for the account of the applicable Borrower, at the office of the Administrative Agent in Same Day Funds in the applicable currency of such Borrowing immediately available to the Administrative Agent, such Lender's ratable portion of such Borrowing. Each Borrower hereby irrevocably authorizes the Administrative Agent to disburse the proceeds of each Borrowing requested pursuant to this Section in immediately available funds by crediting or wiring such proceeds to the deposit account of the applicable Borrower identified in the most recent notice substantially in the form attached as Exhibit E (a "Notice of Account Designation") delivered by each Borrower to the Administrative Agent or as may be otherwise agreed upon by such Borrower and the Administrative Agent from time to time. The Administrative Agent shall not be obligated to disburse the portion of the proceeds of any Borrowing requested pursuant to this Section to the extent that any Lender has not made available to the Administrative Agent its ratable portion of such Borrowing.

SECTION 1.03. [Reserved].

SECTION 1.04. Fees.

(a) Commitment Fee. Commencing on the Effective Date, the Company agrees to pay to the Administrative Agent in US Dollars, for the account of the Lenders, a non-refundable commitment fee (the "Commitment Fee") at a rate per annum equal to the Applicable Percentage in effect from time to time on the average daily Unused Commitments of the Lenders (other than the Defaulting Lenders, if any). The Commitment Fee shall be payable in arrears on the last Business Day of each calendar quarter during the term of this Agreement commencing June 30, 2018, and ending on the date upon which all Commitments have been terminated.

(b) Other Fees. The Company shall pay to the Administrative Agent for its account fees in the amounts and at the times specified in the Engagement Letter.

SECTION 1.05. Termination, Reduction or Increase of the Commitments.

(a) Optional Termination or Reduction. The Borrowers shall have the right, upon at least three Business Days' notice by the Company to the Administrative Agent, to terminate in whole or reduce ratably in part the US Tranche Unused Commitments or the Multicurrency Tranche Unused Commitments, provided that each partial reduction shall be in the aggregate amount of \$10,000,000 or an integral multiple of \$1,000,000, in excess thereof, provided, further, that a notice of termination delivered by the Company may state that such notice is conditioned upon the consummation of another transaction, in which case such notice may be revoked by the Company (by notice to the Administrative Agent on or prior to the specified effective date) if such condition is not satisfied. The aggregate amount of the Commitments of

any Tranche once reduced as provided in this Section 2.05(a), may not be reinstated, except as provided in Section 2.05(b) below.

(b) Increase in Aggregate of the Commitments. The Company, on behalf of the Borrowers, may at any time, by notice to the Administrative Agent, propose that the aggregate amount of the Commitments of any Tranche (whether in the form of incremental term loans or revolving credit facility increases) be increased (such aggregate amount being, a "Commitment Increase"), effective as at a date prior to the date of the termination of all of the Commitments of such Tranche (as such date may be changed by the Company by notice to the Administrative Agent, an "Increase Date") as to which agreement is to be reached by an earlier date specified in such notice (as such date may be changed by the Company by notice to the Administrative Agent, a "Commitment Date"); provided, however, that (A) the minimum proposed Commitment Increase per notice shall be \$25,000,000 (or such lesser amount as the Administrative Agent may agree), (B) in no event shall the aggregate amount of the Commitments at any time exceed \$450,000,000 and (C) no Default or Event of Default shall have occurred and be continuing on such Increase Date. The Administrative Agent shall notify the Lenders thereof promptly upon its receipt of any such notice. The Administrative Agent agrees that it will cooperate with the Borrowers in discussions with the Lenders and other Eligible Assignees with a view to arranging the proposed Commitment Increase through the increase of the Multicurrency Tranche Commitments or the US Tranche Commitments, as applicable, of one or more of the applicable Lenders (each such Lender that is willing to increase its Commitment hereunder being an "Increasing Lender") and the addition of one or more other Eligible Assignees as Assuming Lenders and as parties to this Agreement; provided, however, that it shall be in each Lender's sole discretion whether to increase its Multicurrency Tranche Commitment or its US Tranche Commitment, as applicable, hereunder in connection with the proposed Commitment Increase; and provided further that the minimum Multicurrency Tranche Commitment or US Tranche Commitment, as applicable, of each such Assuming Lender that becomes a party to this Agreement pursuant to this Section 2.05(b), shall be at least equal to \$10,000,000 (or such lesser amount as the Administrative Agent may agree). If any of the Lenders agree to increase their respective Multicurrency Tranche Commitments or US Tranche Commitments, as applicable, by an aggregate amount in excess of the proposed Commitment Increase, the proposed Commitment Increase shall be allocated among such Lenders in proportion to their respective Multicurrency Tranche Commitments or US Tranche Commitments, as applicable, immediately prior to the Increase Date. If agreement is reached on or prior to the applicable Commitment Date with any Increasing Lenders and Assuming Lenders as to a Commitment Increase (which may be less than but not greater than specified in the applicable notice from the Company), such agreement to be evidenced by a notice in reasonable detail from the Company to the Administrative Agent on or prior to the applicable Commitment Date, such Assuming Lenders, if any, shall become Lenders hereunder as of the applicable Increase Date and the Multicurrency Tranche Commitments or US Tranche Commitments, as applicable, of such Increasing Lenders and such Assuming Lenders shall become or be, as the case may be, as of the Increase Date, the amounts specified in such notice; provided that:

(1) the Administrative Agent shall have received (with copies for each Lender, including each such Assuming Lender) by no later than 10:00 A.M. (New York City time) on the applicable Increase Date (1) certified copies of resolutions of the board of directors (or equivalent governing body) of the Borrowers approving the Commitment Increase and (2) an opinion of counsel for the Borrowers, in form and substance reasonably satisfactory to the Administrative Agent;

(2) each such Assuming Lender shall have delivered to the Administrative Agent, by no later than 10:00 A.M. (New York City time) on such Increase Date, an appropriate Assumption Agreement in substantially the form of Exhibit D hereto, duly executed by such Assuming Lender and the Company, on behalf of the Borrowers;

(3) each such Increasing Lender shall have delivered to the Administrative Agent, by no later than 10:00 A.M. (New York City time) on such Increase Date, (A) its existing Note, if any, and (B) confirmation in writing satisfactory to the Administrative Agent as to its increased Commitment;

(4) the proceeds of any Commitment Increase shall be used for general corporate purposes of the Company and its Subsidiaries;

(5) each Commitment Increase (and the loans made thereunder) shall constitute obligations of the Borrowers and shall be guaranteed with the other Advances on a pari passu basis as set forth in Article VIII;

(6) the Company shall be in pro forma compliance with each of the financial covenants set forth in Section 5.03, both before and after giving effect (on a Pro Forma Basis) to any Commitment Increase;

(7) all terms and conditions applicable to any Commitment Increase with respect to an incremental term loan shall be reasonably satisfactory to the Administrative Agent and the Company; and

(8) any Commitment Increase with respect to a revolving credit facility increase shall be subject to the same terms and conditions as the existing Advances but shall bear interest and be entitled to fees, in each case at a rate determined by the applicable Increasing Lenders and the Company;

(ii) In the event that the Administrative Agent shall have received notice from the Company as to its agreement to a Commitment Increase on or prior to the applicable Commitment Date and each of the actions provided for in clauses (1) through (3) above shall have occurred prior to 10:00 A.M. (New York City time) on the applicable Increase Date to the reasonable satisfaction of the Administrative Agent, the Administrative Agent shall notify the Lenders (including any Assuming Lenders) and the Company of the occurrence of such Commitment Increase by telephone, confirmed at once in writing, or telecopier, and in any event no later than 1:00 P.M. (New York City time) on such Increase Date and shall record in the Register the relevant information with respect to each Increasing Lender and Assuming Lender. Each Increasing Lender and each Assuming Lender shall, to the extent applicable, before 2:00 P.M. (New York City time) on the applicable Increase Date, purchase at par that portion of outstanding Advances of the other Lenders or take such other actions as the Administrative Agent may reasonably determine to be necessary to cause the Advances to be funded pro rata by the Lenders in accordance with the Commitments.

(c) In the event that the Administrative Agent shall not have received notice from the Company as to such agreement on or prior to the applicable Commitment Date or the Company shall, by notice to the Administrative Agent prior to the applicable Increase Date, withdraw its proposal for a Commitment Increase or any of the actions provided for above in clauses (i) (1) through (i)(3) shall not have occurred by 10:00 A.M. (New York City time) on such Increase Date, such proposal by the Company shall be deemed not to have been made. In such event, any actions theretofore taken under clauses (i)(1) through (i)(3) above shall be deemed to be of no effect and all the rights and obligations of the parties shall continue as if no such proposal had been made.

(d) Notwithstanding anything to the contrary set forth in Section 9.01, the Company, on behalf of the Borrowers, the Administrative Agent, each Increasing Lender and each Assuming Lender may enter into amendments to this Agreement (without the consent of any

other Lender) to implement and effect any Commitment Increase complying with the above provisions and each Lender hereto agrees to the foregoing.

SECTION 1.06. Repayment of Advances. The Borrowers shall repay the outstanding principal amount of all Advances in full on the Termination Date in the Currencies in which such Advances are denominated, together with all accrued but unpaid interest thereon and other amounts payable with respect to such Advances. If at any time the sum of the Advances under any Tranche exceeds the total Commitments under such Tranche (other than as a result of changes in the Spot Rate), then the applicable Borrower shall repay promptly upon notice from the Administrative Agent an amount necessary to eliminate any such excess, by payment to the Administrative Agent for the account of the Lenders of such Tranche.

SECTION 1.07. Interest on Advances. Scheduled Interest. Each Borrower shall pay interest on the unpaid principal amount of each Advance to it owing to each Lender from the date of such Advance until such principal amount shall be paid in full, at the following rates per annum:

(i) **Base Rate Advances.** During such periods as an Advance is a Base Rate Advance, a rate per annum equal at all times to the sum of (x) the Base Rate in effect from time to time plus (y) the Applicable Margin in effect from time to time, payable in arrears quarterly on the last day of each March, June, September and December during such periods and on the date such Base Rate Advance shall be Converted or paid in full; or

(ii) **Other Advances.** During such periods as an Advance is (A) a Daily Simple RFR Advance denominated in US Dollars, a rate per annum equal at all times to the sum of (x) the Adjusted Daily Simple RFR in effect from time to time plus (y) the Applicable Margin, (B) a Daily Simple RFR Advance denominated in Sterling, a rate per annum equal at all times to the sum of (x) Daily Simple RFR plus (y) the Applicable Margin, (C) a Daily Simple RFR Advance denominated in a Foreign Currency (other than Sterling), a rate per annum equal at all times to the sum of (x) Daily Simple RFR plus (y) the Applicable Margin, (C) a Term RFR Advance, a rate per annum equal at all times to the sum of (x) the applicable Term RFR plus (y) the Applicable Margin, and (D) Eurocurrency Rate Advances, a rate per annum equal at all times to the sum of (x) the applicable Adjusted Eurocurrency Rate plus (y) the Applicable Margin, payable in arrears on the Interest Payment Date and on the date such Advance shall be Converted or paid in full.

Notwithstanding anything in this Agreement (including this Section 2.07) to the contrary, with respect to any Advance denominated in Sterling or Singapore Dollars as of the First Amendment Effective Date, (A) the interest rate with respect to such Advance shall continue to be determined in accordance with the terms of this Agreement immediately prior to the First Amendment Effective Date through and until the last day of the current Interest Period with respect to such Advance and (B) after the termination of such current Interest Period with respect to such Advance, the interest rate for such Advance will thereafter be determined in accordance with the current terms of this Agreement.

(b) **Default Interest.** Upon the occurrence and during the continuance of an Event of Default under Section 6.01(a), the Administrative Agent may, and upon the request of the Required Lenders shall, require each applicable Borrower to pay interest (“Default Interest”) on (i) overdue principal of each Advance made to it owing to each Lender, payable in arrears on the dates referred to in clause (a)(i) or (a)(ii) above, at a rate per annum equal at all times to 2% per annum above the rate per annum required to be paid on such Advance pursuant to clause (a)(i) or

(a)(ii) above and (ii) to the fullest extent permitted by law, the amount of any overdue interest, fee or other amount payable hereunder with respect to Advances made to it, from the date such amount shall be due until such amount shall be paid in full, payable in arrears on the date such amount shall be paid in full and on demand, at a rate per annum equal at all times to 1% per annum above the rate per annum required to be paid on Base Rate Advances pursuant to clause (a)(i) above, provided, however, that following acceleration of the Advances pursuant to Section 6.01, Default Interest shall accrue and be payable hereunder whether or not previously required by the Administrative Agent.

(c) **Maximum Rate.** In no contingency or event whatsoever shall the aggregate of all amounts deemed interest under this Agreement charged or collected pursuant to the terms of this Agreement exceed the highest rate permissible under any Applicable Law which a court of competent jurisdiction shall, in a final determination, deem applicable hereto. In the event that such a court determines that the Lenders have charged or received interest hereunder in excess of the highest applicable rate, the rate in effect hereunder shall automatically be reduced to the maximum rate permitted by Applicable Law and the Lenders shall at the Administrative Agent's option (i) promptly refund to the applicable Borrower any interest received by the Lenders in excess of the maximum lawful rate or (ii) apply such excess to the principal balance of the Borrower Obligations. It is the intent hereof that the Borrowers not pay or contract to pay, and that neither the Administrative Agent nor any Lender receive or contract to receive, directly or indirectly in any manner whatsoever, interest in excess of that which may be paid by the Borrowers under Applicable Law.

(d) **Interest Act (Canada).** For the purposes of the Interest Act (Canada), (i) whenever a rate of interest or fee rate hereunder is calculated on the basis of a year (the "deemed year") that contains fewer days than the actual number of days in the calendar year of calculation, such rate of interest or fee rate shall be expressed as a yearly rate by multiplying such rate of interest or fee rate by the actual number of days in the calendar year of calculation and dividing it by the number of days in the deemed year, (ii) the principle of deemed reinvestment of interest shall not apply to any interest calculation hereunder and (iii) the rates of interest stipulated herein are intended to be nominal rates and not effective rates or yields.

SECTION 1.08. [Reserved].

SECTION 1.09. Optional Conversion of Advances. The Company may, on behalf of one or more Borrowers, upon notice in substantially the form of Exhibit B-2 hereto (or such other form as shall be reasonably acceptable to the Administrative Agent) (a "Notice of Continuation/Conversion") given to the Administrative Agent not later than 11:00 A.M. (New York City time) (i) in the case of an Advance denominated in US Dollars that is to be a Daily Simple RFR Advance, at least five RFR Business Days before the day on which a proposed conversion or continuation of such Advance is to be effective, (ii) in the case of an Advance denominated in US Dollars that is to be a Term RFR Advance, at least three RFR Business Days before the day on which a proposed conversion or continuation of such Advance is to be effective, (iii) in the case of an Advance denominated in US Dollars that is to be a Eurocurrency Rate Advance, at least three Eurocurrency Banking Days before the day on which a proposed conversion or continuation of such Advance is to be effective, (iv) in the case of an Advance denominated in any Foreign Currency that is to be an RFR Advance, at least five RFR Business Days before the day on which a proposed conversion or continuation of such Advance is to be effective, and (v) in the case of an Advance denominated in any Foreign Currency that is to be a Eurocurrency Rate Advance, at least four (4) Eurocurrency Banking Days (or five (5) Eurocurrency Banking Days in the case of a Special Notice Currency) before the day on which a proposed conversion or continuation of such Advance is to be effective, in each case, specifying (A) the Advances to be converted or continued, and, in the case of any Eurocurrency Rate

Advance or Term RFR Advance to be converted or continued, the last day of the Interest Period therefor, (B) the effective date of such conversion or continuation (which shall be a Business Day), (C) the principal amount and Currency of such Advances to be converted or continued, and (D) in the case of any Eurocurrency Rate Advance or Term RFR Advance, the Interest Period to be applicable to such converted or continued Eurocurrency Rate Advance or Term RFR Advance; provided, however, that any Conversion of Base Rate Advances into Eurocurrency Rate Advances or RFR Advances shall be in an amount not less than the minimum amount specified in Section 2.02(a). If a Borrower fails to deliver a timely Notice of Conversion/Continuation with respect to a Daily Simple RFR Advance prior to the Interest Payment Date therefor, then, unless such RFR Advance is repaid as provided herein, the applicable Borrower shall be deemed to have selected that such RFR Advance shall automatically be converted to a Base Rate Loan denominated in US Dollars (in an amount equal to the Dollar Equivalent of the applicable Foreign Currency, if applicable) as of such Interest Payment Date. If a Borrower fails to deliver a timely Notice of Conversion/Continuation with respect to a Eurocurrency Rate Advance or a Term RFR Advance prior to the end of the Interest Period therefor, then, unless such Eurocurrency Rate Advance or Term RFR Advance, as applicable, is repaid as provided herein, the applicable Borrower shall be deemed to have selected that such Eurocurrency Rate Advance or Term RFR Advance, as applicable, shall automatically be converted to a Base Rate Loan denominated in US Dollars (in an amount equal to the Dollar Equivalent of the applicable Foreign Currency) at the end of such Interest Period. If a Borrower requests a conversion to, or continuation of, a Eurocurrency Rate Advance or a Term RFR Advance, but fails to specify an Interest Period, it will be deemed to have specified an Interest Period of one month. Each Notice of Continuation/Conversion shall be irrevocable and binding on the Company and the applicable Borrower.

SECTION 1.10. Optional Prepayment of Advances. Each Borrower may at any time and from time to time prepay Advances, in whole or in part, with irrevocable prior written notice to the Administrative Agent from the Company substantially in the form attached as Exhibit F hereto (a “Notice of Prepayment”) given not later than 11:00 a.m., in the case of any Advance denominated in US Dollars, and not later than the Applicable Time specified by the Administrative Agent in the case of any Advance denominated in a Foreign Currency (i) on the same Business Day as such prepayment is to occur, with respect to a Base Rate Advance and (ii) (A) in the case of a Daily Simple RFR Advance denominated in US Dollars, at least five RFR Business Days before prepayment of such Daily Simple RFR Advance, (B) in the case of a Term RFR Advance denominated in US Dollars, at least three RFR Business Days before prepayment of such Term RFR Advance, (C) in the case of a Eurocurrency Rate Advance denominated in US Dollars, at least three Eurocurrency Banking Days before prepayment of such Eurocurrency Rate Advance, (D) in the case of an RFR Advance denominated in any Foreign Currency, at least five RFR Business Days before prepayment of such RFR Advance, and (E) in the case of a Eurocurrency Rate Advance denominated in any Foreign Currency, at least four Eurocurrency Banking Days before prepayment of such Eurocurrency Rate Advance (or five Eurocurrency Banking Days in the case of a prepayment of Eurocurrency Rate Advances denominated in a Special Notice Currency), specifying the date and amount of prepayment and whether the prepayment is of Eurocurrency Rate Advances, Daily Simple RFR Advances, Term RFR Advances, Base Rate Advances, or a combination thereof, and, if of a combination thereof, the amount allocable to each. Prior to any prepayment of Advances the Company shall select the Borrowing or Borrowings to be prepaid and shall specify such selection, including the relevant Tranche, in the Notice of Prepayment. Upon receipt of such notice, the Administrative Agent shall promptly notify each Lender of the Tranche being prepaid. If any such notice is given, the amount specified in such notice shall be due and payable on the date set forth in such notice; provided, that, if a Notice of Prepayment is given in connection with a conditional notice of termination of Commitments as contemplated by Section 2.05(a), then such Notice of Prepayment may be revoked if such notice of termination is revoked in accordance with Section 2.05(a) and the applicable Borrower shall remain liable for any amounts in respect of such

proposed prepayment as provided in Section 9.04. Partial prepayments shall be in an aggregate amount of \$2,000,000 or a whole multiple of \$1,000,000 in excess thereof with respect to Base Rate Advances, and \$5,000,000 or a whole multiple of \$1,000,000 in excess thereof with respect to Eurocurrency Rate Advances and RFR Advances. A Notice of Prepayment received after 11:00 a.m. shall be deemed received on the next Business Day, Eurocurrency Banking Day or RFR Business Day, as applicable. Each such repayment shall be accompanied by any amount required to be paid pursuant to Section 9.04(c). No Borrower may prepay any Eurocurrency Rate Advance or Term RFR Advance on any day other than on the last day of the Interest Period applicable thereto unless such prepayment is accompanied by any amount required to be paid pursuant to Section 9.04(c).

SECTION 1.11. Increased Costs. If, after the date hereof, due to either (i) the introduction of or any change in or in the interpretation of any law or regulation or (ii) the compliance with any guideline or request from any central bank or other Governmental Authority (whether or not having the force of law), there shall be any increase in the cost to any Lender (other than in any reserve requirement reflected in the Adjusted Eurocurrency Rate) of agreeing to make or making, funding or maintaining Eurocurrency Rate Advances or RFR Advances (excluding for purposes of this Section 2.11 any such increased costs resulting from Indemnified Taxes or Excluded Taxes), then the applicable Borrower shall from time to time, upon demand by such Lender (with a copy of such demand to the Administrative Agent), pay to the Administrative Agent for the account of such Lender additional amounts sufficient to compensate such Lender for such increased cost. A certificate as to the amount of such increased cost, setting forth in reasonable detail the basis therefor and the computation thereof, submitted to the Company and the Administrative Agent by such Lender, shall be conclusive and binding for all purposes, absent demonstrable error. Notwithstanding the foregoing, none of the Lenders shall deliver the notice and certificate described in this Section 2.11(a) to the Company in respect of any increased costs except in accordance with the internal policy of such Lender as to the exercise of similar rights and remedies in similar circumstances.

(b) If any Lender determines that compliance with any law or regulation or any guideline or request from any central bank or other Governmental Authority (whether or not having the force of law) in either case enacted, adopted or made after the date hereof, affects or would affect the amount of capital or liquidity required or expected to be maintained by such Lender or any corporation controlling such Lender and that the amount of such capital is increased by or based upon the existence of such Lender's commitment to lend hereunder and other commitments of this type, then, upon demand by such Lender (with a copy of such demand to the Administrative Agent), the applicable Borrower shall pay to the Administrative Agent for the account of such Lender, from time to time as specified by such Lender, additional amounts sufficient to compensate such Lender or such corporation for the reduction of the rate of return on such Lender's capital or on the capital of such corporation, to the extent that such Lender reasonably determines such increase in capital to be allocable to the existence of such Lender's commitment to lend hereunder. A certificate as to such amounts, setting forth in reasonable detail the basis therefor and the computation thereof, submitted to the Company and the Administrative Agent by such Lender shall be conclusive and binding for all purposes, absent demonstrable error. Notwithstanding the foregoing, none of the Lenders shall deliver the notice and certificate described in this Section 2.11(b) to the Company in respect of any requirements of additional capital or liquidity except in accordance with the internal policy of such Lender as to the exercise of similar rights and remedies in similar circumstances.

(c) [Reserved].

(d) Notwithstanding anything to the contrary herein contained, no Lender shall be entitled to claim any additional amounts pursuant to this Section 2.11 arising with respect to any

period of time prior to the date that is 60 days prior to the date on which notice of such claim and the basis therefor is first given to the Company pursuant to this Section 2.11.

(e) For the avoidance of doubt, this Section 2.11 shall apply to all requests, rules, guidelines or directives concerning capital or liquidity adequacy (x) issued in connection with the Dodd-Frank Wall Street Reform and Consumer Protection Act and (y) promulgated by the Bank for International Settlements, the Basel Committee on Banking Supervision (or any successor or similar authority) or the United States or foreign regulatory authorities, in each case pursuant to Basel III, regardless of the date enacted, adopted or issued.

SECTION 1.12. [Reserved].

(a)

SECTION 1.13. Payments and Computations. Each Borrower shall make each payment required to be made by it hereunder and under any other Loan Documents not later than 12:00 noon (New York City time) on the day when due in US Dollars to the Administrative Agent at its offices at 1525 W. W.T. Harris Blvd., 1st Floor, Charlotte, NC 28262-8522 in same day funds. The Administrative Agent will promptly thereafter cause to be distributed like funds relating to the payment of principal or interest or commitment fees ratably (other than amounts payable pursuant to Section 2.11, 2.14 or 9.04(c)) to the applicable Lenders for the account of their respective Applicable Lending Offices, and like funds relating to the payment of any other amount payable to any Lender to such Lender for the account of its Applicable Lending Office, in each case to be applied in accordance with the terms of this Agreement. Upon its acceptance of an Assignment and Assumption and recording of the information contained therein in the Register pursuant to Section 9.07(c), from and after the effective date specified in such Assignment and Assumption, the Administrative Agent shall make all payments hereunder and under any other Loan Documents in respect of the interest assigned thereby to the Lender assignee thereunder, and the parties to such Assignment and Assumption shall make all appropriate adjustments in such payments for periods prior to such effective date directly between themselves. Upon any Assuming Lender becoming a Lender hereunder as a result of the effectiveness of a Commitment Increase pursuant to Section 2.05(b) or an extension of the Termination Date pursuant to Section 2.17 and upon the Administrative Agent's receipt of such Lender's Assumption Agreement and recording of the information contained therein in the Register, from and after the applicable Increase Date or Extension Date, as the case may be, the Administrative Agent shall make all payments hereunder and under any other Loan Documents issued in connection therewith in respect of the interest assumed thereby to the Assuming Lender.

(b) All computations of interest based on Wells Fargo Bank's prime rate shall be made by the Administrative Agent on the basis of a year of 365 or 366 days, as the case may be, and all computations of interest based on the Adjusted Eurocurrency Rate or the Federal Funds Rate and of commitment fees shall be made by the Administrative Agent on the basis of a year of 360 days, in each case for the actual number of days (including the first day but excluding the last day) occurring in the period for which such interest or commitment fees are payable. Each determination by the Administrative Agent of an interest rate hereunder shall be conclusive and binding for all purposes, absent demonstrable error.

(c) Whenever any payment hereunder shall be stated to be due on a day other than a Business Day, such payment shall be made on the next succeeding Business Day, and such extension of time shall in such case be included in the computation of payment of interest or commitment fee, as the case may be; provided, however, that, if such extension would cause

payment of interest on or principal of Eurocurrency Rate Advances to be made in the next following calendar month, such payment shall be made on the next preceding Business Day.

(d) Unless the Administrative Agent shall have received notice from the Company prior to the date on which any payment is due to the Lenders hereunder that the applicable Borrower will not make such payment in full, the Administrative Agent may assume that such Borrower has made such payment in full to the Administrative Agent on such date and the Administrative Agent may, in reliance upon such assumption, cause to be distributed to each Lender on such due date an amount equal to the amount then due such Lender. If and to the extent the applicable Borrower shall not have so made such payment in full to the Administrative Agent, each Lender shall repay to the Administrative Agent forthwith on demand such amount distributed to such Lender together with interest thereon, for each day from the date such amount is distributed to such Lender until the date such Lender repays such amount to the Administrative Agent, at the Federal Funds Rate.

SECTION 1.14. Taxes. Any and all payments by any Credit Party hereunder shall be made free and clear of and without deduction or withholding for any and all present or future Taxes and all liabilities with respect thereto, except as required by Applicable Law. If any Credit Party shall be required by law to deduct or withhold any Taxes from or in respect of any sum payable hereunder to any Lender or the Administrative Agent, (i) if such Taxes are Indemnified Taxes, the sum payable by the applicable Credit Party shall be increased as may be necessary so that after making all required deductions or withholding (including deductions or withholding applicable to additional sums payable under this Section 2.14) such Lender or the Administrative Agent (as the case may be) receives an amount equal to the sum it would have received had no such deductions or withholding been made, (ii) such Credit Party shall make such deductions and (iii) such Credit Party shall pay the full amount deducted to the relevant Governmental Authority in accordance with Applicable Law.

In addition, without duplication of Section 2.14(a), each Credit Party agrees to pay to the relevant Governmental Authority in accordance with Applicable Law, or at the option of the Administrative Agent reimburse it for the payment of, any Other Taxes.

(b) The Company and the Guarantors jointly and severally shall indemnify each Lender and the Administrative Agent for the full amount of Indemnified Taxes (including, without limitation, any Taxes imposed by any jurisdiction on amounts payable under this Section 2.14) imposed on or paid by such Lender or the Administrative Agent (as the case may be) and any liability (including penalties, interest and expenses) arising therefrom or with respect thereto. This indemnification shall be made within 30 days from the date such Lender or the Administrative Agent (as the case may be) makes written demand therefor.

(c) Within 30 days after the date of any payment of Taxes (including Excluded Taxes) to a Governmental Authority by the Company or any Foreign Borrower pursuant to this Section 2.14, the Company shall furnish to the Administrative Agent, at its address referred to in Section 9.02, the original or a certified copy of a receipt evidencing payment thereof. The Administrative Agent will post any receipt so received in relation to the payment of Taxes (including Excluded Taxes) from the Company or any Foreign Borrower on the Platform promptly upon receipt.

(d) Any Lender that is entitled to an exemption from or reduction of withholding Tax with respect to payments made under any Loan Document shall deliver to the Company and the Administrative Agent, at the time or times reasonably requested the Company or the Administrative Agent, such properly completed and executed documentation reasonably requested by the Company or the Administrative Agent as will permit such payments to be made without withholding or at a reduced rate of withholding. In addition, any Lender, if reasonably

requested by the Company or the Administrative Agent, shall deliver such other documentation prescribed by Applicable Law or reasonably requested by the Company or the Administrative Agent as will enable the Company or the Administrative Agent to determine whether or not such Lender is subject to backup withholding or information reporting requirements. Without limiting the generality of the foregoing, each Lender organized under the laws of a jurisdiction outside the United States (each, a “Foreign Lender”), on or prior to the date of its execution and delivery of this Agreement in the case of each Initial Lender and on the date of the Assumption Agreement or the Assignment and Assumption, as the case may be, pursuant to which it becomes a Lender in the case of each other Lender, and from time to time thereafter as requested in writing by the Company (but only so long as such Lender remains lawfully able to do so), shall provide each of the Administrative Agent and the Company with two original Internal Revenue Service Forms W-8BEN, W-8BEN-E, W-8IMY or W-8ECI, as appropriate, or any successor or other form prescribed by the Internal Revenue Service, certifying that such Lender is exempt from or entitled to a reduced rate of United States Federal withholding Tax on payments pursuant to this Agreement. Each Foreign Lender claiming the benefits of the exemption for portfolio interest under Section 871(h) or 881(c) of the Internal Revenue Code shall further provide each of the Administrative Agent and the Company (x) a certificate to the effect that such Lender is not (A) a “bank” within the meaning of Section 881(c)(3)(A) of the Internal Revenue Code, (B) a “10 percent shareholder” of the Company within the meaning of Section 871(h)(3) or 881(c)(3)(B) of the Internal Revenue Code or (C) a “controlled foreign corporation” described in Section 881(c)(3)(C) of the Internal Revenue Code. In addition, each Lender that is organized under the laws of the United States or any political subdivision thereof shall deliver to the Company and the Administrative Agent two copies of Internal Revenue Service Form W-9 (or any subsequent versions thereof or successors thereto) on or before the date such Lender becomes a party to this Agreement and upon the expiration of any form previously delivered by such Lender.

(ii) If a payment made to a Lender hereunder would be subject to withholding Tax imposed by FATCA if such Lender were to fail to comply with the applicable reporting requirements of FATCA (including those contained in Section 1471(b) or 1472(b) of the Internal Revenue Code, as applicable), such Lender shall deliver to the Company and the Administrative Agent, at the time or times prescribed by Applicable Law and at such time or times reasonably requested by the Company or the Administrative Agent, such documentation prescribed by Applicable Law (including as prescribed by Section 1471(b)(3)(C)(i) of the Internal Revenue Code) and such additional documentation reasonably requested by such Borrower or the Administrative Agent as may be necessary for such Borrower or the Administrative Agent to comply with its obligations under FATCA, to determine that such Lender has or has not complied with such Lender’s obligations under FATCA and, as necessary, to determine the amount to deduct and withhold from such payment. Solely for purposes of this clause (ii), “FATCA” includes any amendment made to FATCA after the date of this Agreement.

(iii) Each Lender agrees that if any form or certification it previously delivered expires or becomes obsolete or inaccurate in any respect, it shall update such form or certification or promptly notify the Company and the Administrative Agent in writing of its legal inability to do so.

(e) Each Lender shall severally indemnify the Administrative Agent, within 10 days after demand therefor, for (i) any Indemnified Taxes attributable to such Lender (but only to the extent that any Credit Party has not already indemnified the Administrative Agent for such Indemnified Taxes and without limiting the obligation of the Credit Parties to do so), (ii) any Taxes attributable to such Lender’s failure to comply with the provisions of Section 9.07(d) relating to the maintenance of a Participant Register and (iii) any Excluded Taxes attributable to such Lender, in each case, that are payable or paid by the Administrative Agent in connection with any Loan Document, and any reasonable expenses arising therefrom or with respect thereto,

whether or not such Taxes were correctly or legally imposed or asserted by the relevant Governmental Authority. A certificate as to the amount of such payment or liability delivered to any Lender by the Administrative Agent shall be conclusive absent manifest error. Each Lender hereby authorizes the Administrative Agent to set off and apply any and all amounts at any time owing to such Lender under any Loan Document or otherwise payable by the Administrative Agent to the Lender from any other source against any amount due to the Administrative Agent under this Section 2.14(f).

SECTION 1.15. Sharing of Payments, Etc. If any Lender shall obtain any payment (whether voluntary, involuntary, through the exercise of any right of set-off, or otherwise) on account of the Advances owing to it (other than pursuant to Section 2.11, 2.14 or 9.04(c)) in excess of its ratable share of payments on account of the Advances of the relevant Tranche obtained by all the Lenders of such Tranche, such Lender shall forthwith purchase from the other Lenders of such Tranche such participations in the Advances of such Tranche owing to them as shall be necessary to cause such purchasing Lender to share the excess payment ratably with each of them; provided, however, that if all or any portion of such excess payment is thereafter recovered from such purchasing Lender, such purchase from each Lender of such Tranche shall be rescinded and such Lender shall repay to the purchasing Lender the purchase price to the extent of such recovery together with an amount equal to such Lender's ratable share (according to the proportion of (i) the amount of such Lender's required repayment to (ii) the total amount so recovered from the purchasing Lender) of any interest or other amount paid or payable by the purchasing Lender in respect of the total amount so recovered; provided, further, that, so long as the Advances shall not have become due and payable pursuant to Section 6.01, any excess payment received by any Lender shall be shared on a pro rata basis only with other Lenders that have Commitments or Advances in such Tranche; provided, further, that the provisions of this paragraph shall not be construed to apply to any payment made by any Borrower pursuant to and in accordance with the express terms of this Agreement or any payment obtained by a Lender as consideration for the assignment of or sale of a participation in any of its Advances to any assignee or participant. Each Borrower agrees that any Lender so purchasing a participation from another Lender pursuant to this Section 2.15 may, to the fullest extent permitted by law, exercise all its rights of payment (including the right of set-off) with respect to such participation as fully as if such Lender were the direct creditor of such Borrower in the amount of such participation.

SECTION 1.16. Use of Proceeds. The proceeds of the Advances shall be available (and each Borrower agrees that it shall use such proceeds) for general corporate purposes of each such Borrower and its Subsidiaries. No Borrower will request any Advances, and no Borrower shall use, and each Borrower shall cause its respective Subsidiaries not to use, the proceeds of any Advances (a) in furtherance of an offer, payment, promise to pay, or authorization of the payment or giving of money, or anything else of value, to any Person (i) in violation of any applicable Sanctions or Anti-Corruption Law, (ii) for any activities pursuant to General License H issued by OFAC pursuant to the Iranian Transactions and Sanctions Regulations, 31 C.F.R. part 560, on January 16, 2016 or (iii) in a manner that would cause any Lender to be in violation of any Sanctions, (b) for the purpose of funding, financing or facilitating any activities, business or transaction in, of or with any Sanctioned Entity or (c) in any manner that would result in the violation of the FCPA and any foreign counterpart thereto.

SECTION 1.17. Extension of Termination Date. At least 60 days prior to any applicable Termination Date in effect, the Company, on behalf of the Borrowers, by written notice to the Administrative Agent, may request an extension of any Termination Date in effect at such time by one year from its then scheduled expiration; provided that the Company may request an extension no more than two times during the term of this Agreement. The Administrative Agent shall promptly notify each Lender of such request, and each Lender shall

in turn, in its sole discretion, not later than the date specified in such notice (subject to extension by the Company), notify the Company and the Administrative Agent in writing as to whether such Lender will consent to such extension. If any Lender shall fail to notify the Administrative Agent and the Company in writing of its consent to any such request for extension of the Termination Date prior to the date specified in such notice (as extended, if applicable), such Lender shall be deemed to be a Non-Consenting Lender with respect to such request. The Administrative Agent shall promptly notify the Company of the decision of the Lenders regarding the Company's request for an extension of the Termination Date.

(b) If all the Lenders consent in writing to any such request in accordance with subsection (a) of this Section 2.17, the Termination Date in effect at such time shall, effective as at the applicable date specified pursuant to subsection (a) above (the "Extension Date"), be extended for one year; provided that on each Extension Date the applicable conditions set forth in Section 3.02 shall be satisfied. If less than all of the Lenders consent in writing to any such request in accordance with subsection (a) of this Section 2.17, the Termination Date in effect at such time shall, effective as at the applicable Extension Date and subject to subsection (d) of this Section 2.17, be extended as to those Lenders that so consented (each a "Consenting Lender") but shall not be extended as to any other Lender (each a "Non-Consenting Lender"). To the extent that the Termination Date is not extended as to any Lender pursuant to this Section 2.17 and the Commitments of such Lender are not substituted in accordance with subsection (c) of this Section 2.17 on or prior to the applicable Extension Date, the Commitments of such Non-Consenting Lender shall automatically terminate in whole on such unextended Termination Date without any further notice or other action by the Company, such Lender or any other Person; provided that such Non-Consenting Lender's rights under Sections 2.11, 2.14 and 8.04, and its obligations under Section 7.05, shall survive the Termination Date for such Lender as to matters occurring prior to such date. It is understood and agreed that no Lender shall have any obligation whatsoever to agree to any request made by the Company for any requested extension of the Termination Date.

(c) If less than all of the Lenders consent to any such request pursuant to subsection (a) of this Section 2.17, the Administrative Agent shall promptly so notify the Consenting Lenders, and each Consenting Lender may, in its sole discretion, give written notice to the Administrative Agent not later than 30 days prior to the applicable Extension Date of the amount of the Non-Consenting Lenders' Commitments for which it is willing to accept an assignment. If the Consenting Lenders notify the Administrative Agent that they are willing to accept assignments of Commitments in an aggregate amount that exceeds the amount of the Commitments of the Non-Consenting Lenders, such Commitments shall be allocated among the Consenting Lenders willing to accept such assignments in such amounts as are agreed between the Company and the Administrative Agent. If after giving effect to the assignments of Commitments described above there remain any Commitments of Non-Consenting Lenders, the Company may arrange for one or more Consenting Lenders or other Eligible Assignees as Assuming Lenders to assume, effective as of the applicable Extension Date, all or a portion of Non-Consenting Lender's Commitments and all of the obligations of such Non-Consenting Lender under this Agreement thereafter arising, without recourse to or warranty by, or expense to, such Non-Consenting Lender; provided, however, that the amount of the Commitments of any such Assuming Lender as a result of such substitution shall in no event be less than \$10,000,000 unless the amount of the Commitments of such Non-Consenting Lender is less than \$10,000,000, in which case such Assuming Lender shall assume all of such lesser amount; and provided further that:

(i) any such Consenting Lender or Assuming Lender shall have paid to such Non-Consenting Lender (A) the aggregate principal amount of, and any interest accrued and unpaid to the effective date of the assignment on, the outstanding Advances, if any,

of such Non-Consenting Lender plus (B) any accrued but unpaid commitment fees owing to such Non-Consenting Lender as of the effective date of such assignment;

(ii) all additional costs reimbursements, expense reimbursements and indemnities payable to such Non-Consenting Lender, and all other accrued and unpaid amounts owing to such Non-Consenting Lender hereunder, as of the effective date of such assignment shall have been paid to such Non-Consenting Lender; and

(iii) with respect to any such Assuming Lender, the applicable processing and recordation fee required under Section 9.07(b) for such assignment shall have been paid;

provided further that such Non-Consenting Lender's rights under Sections 2.11, 2.14 and 9.04, and its obligations under Section 7.05, shall survive such substitution as to matters occurring prior to the date of substitution. At least three Business Days prior to any Extension Date, (A) each such Assuming Lender, if any, shall have delivered to the Company and the Administrative Agent an Assumption Agreement, duly executed by such Assuming Lender, such Non-Consenting Lender, the Company and the Administrative Agent and (B) any such Consenting Lender shall have delivered confirmation in writing satisfactory to the Company and the Administrative Agent as to the increase in the amount of its Commitments. Upon the payment or prepayment of all amounts referred to in clauses (i), (ii) and (iii) of the immediately preceding sentence, each such Consenting Lender or Assuming Lender, as of the applicable Extension Date, will be substituted for such Non-Consenting Lender under this Agreement and shall be a Lender for all purposes of this Agreement, without any further acknowledgment by or the consent of the other Lenders, and the obligations of each such Non-Consenting Lender hereunder shall, by the provisions hereof, be released and discharged.

(d) If (after giving effect to any assignments or assumptions pursuant to subsection (c) of this Section 2.17) Lenders having Commitments equal to at least 50% of the Commitments in effect immediately prior to the applicable Extension Date consent in writing to a requested extension (whether by execution or delivery of an Assumption Agreement or otherwise) not later than one Business Day prior to such Extension Date, the Administrative Agent shall so notify the Company, and, subject to the satisfaction to the applicable conditions in Section 3.02, the Termination Date then in effect shall be extended for the additional one year period as described in subsection (a) of this Section 2.17, and all references in this Agreement, and in the other Loan Documents, if any, to the "Termination Date" shall, with respect to each Consenting Lender and each Assuming Lender for such Extension Date, refer to the Termination Date as so extended. Promptly following each Extension Date, the Administrative Agent shall notify the Lenders (including, without limitation, each Assuming Lender) of the extension of the scheduled Termination Date in effect immediately prior thereto and shall thereupon record in the Register the relevant information with respect to each such Consenting Lender and each such Assuming Lender.

SECTION 1.18. Defaulting Lenders.

(a) Defaulting Lender Adjustments. Notwithstanding anything to the contrary contained in this Agreement, if any Lender becomes a Defaulting Lender, then, until such time as such Lender is no longer a Defaulting Lender, to the extent permitted by Applicable Law:

(i) Waivers and Amendments. Such Defaulting Lender's right to approve or disapprove any amendment, waiver or consent with respect to this Agreement shall be restricted as set forth in the definition of Required Lenders.

(ii) Defaulting Lender Waterfall. Any payment of principal, interest, fees or other amounts received by the Administrative Agent for the account of such Defaulting

Lender hereunder (whether voluntary or mandatory, at maturity, pursuant to Article VI or otherwise) or received by the Administrative Agent from a Defaulting Lender pursuant to Section 9.05 shall be applied at such time or times as may be determined by the Administrative Agent as follows: *first*, to the payment of any amounts owing by such Defaulting Lender to the Administrative Agent hereunder; *second*, as the Company, on behalf of the Borrowers, may request (so long as no Default exists), to the funding of any Advance in respect of which such Defaulting Lender has failed to fund its portion thereof as required by this Agreement, as determined by the Administrative Agent; *third*, if so determined by the Administrative Agent, and the Company, to be held in a deposit account and released pro rata in order to satisfy such Defaulting Lender's potential future funding obligations with respect to Advances under this Agreement; *fourth*, to the payment of any amounts owing to the Lenders as a result of any judgment of a court of competent jurisdiction obtained by any Borrower against such Defaulting Lender as a result of such Defaulting Lender's breach of its obligations under this Agreement; and *fifth*, to such Defaulting Lender or as otherwise directed by a court of competent jurisdiction; provided that if (x) such payment is a payment of the principal amount of any Advances in respect of which such Defaulting Lender has not fully funded its appropriate share and (y) such Advances were made at a time when the conditions set forth in Section 3.02 were satisfied or waived, such payment shall be applied solely to pay the Advances of all Non-Defaulting Lenders on a pro rata basis prior to being applied to the payment of any Advances of such Defaulting Lender until such time as all Advances are held by the Lenders pro rata in accordance with the Commitments. Any payments, prepayments or other amounts paid or payable to a Defaulting Lender that are applied (or held) to pay amounts owed by a Defaulting Lender pursuant to this Section 2.18(a)(ii) shall be deemed paid to and redirected by such Defaulting Lender, and each Lender irrevocably consents hereto.

(iii) Certain Fees. No Defaulting Lender shall be entitled to receive a commitment fee for any period during which that Lender is a Defaulting Lender, and no Borrower shall be required to pay such fee otherwise payable to a Defaulting Lender.

(b) Defaulting Lender Cure. If the Company and the Administrative Agent agree in writing that a Lender is no longer a Defaulting Lender, the Administrative Agent will so notify the parties hereto, whereupon as of the effective date specified in such notice and subject to any conditions set forth therein, that Lender will, to the extent applicable, purchase at par that portion of outstanding Advances of the other Lenders or take such other actions as the Administrative Agent may determine to be necessary to cause the Advances to be funded pro rata by the Lenders in accordance with the Commitments, whereupon such Lender will cease to be a Defaulting Lender; provided that no adjustments will be made retroactively with respect to fees accrued or payments made by or on behalf of any Borrower while that Lender was a Defaulting Lender; and provided, further, that except to the extent otherwise expressly agreed by the affected parties, no change hereunder from Defaulting Lender to Lender will constitute a waiver or release of any claim of any party hereunder arising from that Lender's having been a Defaulting Lender.

SECTION 1.19. Mitigation of Obligations; Replacement of Lenders. If any Lender requests compensation under Section 2.11, or requires any Borrower to pay additional amounts to any Lender or any Governmental Authority for the account of any Lender pursuant to Section 2.14, then such Lender shall (at the request of the Company) use reasonable efforts to designate a different lending office for funding or booking its Advances hereunder or to assign its rights and obligations hereunder to another of its offices, branches or affiliates, if, in the judgment of such Lender, such designation or assignment (i) would eliminate or reduce amounts payable pursuant to Section 2.11 or 2.14, as the case may be, in the future, and (ii) would not subject such Lender to any material unreimbursed cost or expense and would not otherwise be

disadvantageous to such Lender. The Company hereby agrees to pay all reasonable costs and expenses incurred by any Lender in connection with any such designation or assignment.

(b) If any Lender requests compensation under Section 2.11, or if any Borrower is required to pay additional amounts to any Lender or any Governmental Authority for the account of any Lender pursuant to Section 2.14, or if any Lender is a Defaulting Lender or following such Lender's Downgrade, then the Company may, at its sole expense and effort, upon notice to such Lender and the Administrative Agent, require such Lender to assign and delegate, without recourse (in accordance with and subject to the restrictions contained in, and consents required by, Section 9.07(b)), all of its interests, rights and obligations under this Agreement to an Eligible Assignee that shall assume such obligations (which assignee may be another Lender, if a Lender accepts such assignment); provided that:

(i) such Lender shall have received payment of an amount equal to the outstanding principal of its Advances, accrued interest thereon, accrued fees and all other amounts payable to it hereunder (including any amounts under Section 9.04(c)) from the assignee (to the extent of such outstanding principal and accrued interest and fees) or the Company (in the case of all other amounts);

(ii) on the date payment of all amounts referred to in Section 2.19(b)(i) has been made, such Lender shall be deemed to have executed and delivered an Assignment and Assumption, and the Company shall be entitled (but not obligated) to execute and deliver such Assignment and Assumption on behalf of such Lender;

(iii) in the case of any such assignment resulting from a claim for compensation under Section 2.11 or payments required to be made pursuant to Section 2.14, such assignment will result in a reduction in such compensation or payments thereafter; and

(iv) such assignment does not conflict with Applicable Law.

A Lender shall not be required to make any such assignment or delegation if, prior thereto, as a result of a waiver by such Lender or otherwise, the circumstances entitling the Borrowers to require such assignment and delegation cease to apply.

SECTION 1.20. Changed Circumstances.

(a) Circumstances Affecting Eurocurrency Rate, Adjusted Daily Simple RFR, Daily Simple RFR and Term RFR Availability.

(i) Subject to clause (c) below, in connection with any RFR Advance, a request therefor, a conversion to or continuation thereof or otherwise, if for any reason (A) the Administrative Agent shall determine (which determination shall be conclusive and binding absent manifest error) that (x) if Adjusted Daily Simple RFR or Daily Simple RFR is utilized in any calculations hereunder or under any other Loan Document with respect to any Borrower Obligations, interest, fees, commissions or other amounts, reasonable and adequate means do not exist for ascertaining Adjusted Daily Simple RFR or Daily Simple RFR, as applicable, pursuant to the definition thereof or (y) if Term RFR is utilized in any calculations hereunder or under any other Loan Document with respect to any Borrower Obligations, interest, fees, commissions or other amounts, reasonable and adequate means do not exist for ascertaining Term RFR for the applicable Interest Period with respect to a proposed Term RFR Advance on or prior to the first day of such Interest Period, (B) the Administrative Agent shall determine (which determination shall be conclusive and binding absent manifest error) that a fundamental change has occurred

in the foreign exchange markets with respect to an applicable Foreign Currency (including changes in national or international financial, political or economic conditions or currency exchange rates or exchange controls) or (C) the Required Lenders shall determine (which determination shall be conclusive and binding absent manifest error) that (x) if Adjusted Daily Simple RFR or Daily Simple RFR is utilized in any calculations hereunder or under any other Loan Document with respect to any Borrower Obligations, interest, fees, commissions or other amounts, Adjusted Daily Simple RFR or Daily Simple RFR, as applicable, does not adequately and fairly reflect the cost to such Lenders of making or maintaining such Advances or (y) if Term RFR is utilized in any calculations hereunder or under any other Loan Document with respect to any Borrower Obligations, interest, fees, commissions or other amounts, Term RFR does not adequately and fairly reflect the cost to such Lenders of making or maintaining such Advances during the applicable Interest Period and, in the case of (x) or (y), the Required Lenders have provided notice of such determination to the Administrative Agent, then, in each case, the Administrative Agent shall promptly give notice thereof to the Company. Upon notice thereof by the Administrative Agent to the Company, any obligation of the Lenders to make RFR Advances in each such Currency, and any right of any Borrower to convert any Advance in each such Currency (if applicable) or continue any Advance as an RFR Advance in each such Currency, shall be suspended (to the extent of the affected RFR Advances or, in the case of Term RFR Advances, the affected Interest Periods) until the Administrative Agent (with respect to clause (C), at the instruction of the Required Lenders) revokes such notice. Upon receipt of such notice, (A) any Borrower may revoke any pending request for a borrowing of, conversion to or continuation of RFR Advances in each such affected Currency (to the extent of the affected RFR Advances or, in the case of Term RFR Advances, the affected Interest Periods) or, failing that, (I) in the case of any request for a borrowing of an affected RFR Advance in US Dollars, such Borrower will be deemed to have converted any such request into a request for a borrowing of or conversion to Base Rate Advances in the amount specified therein and (II) in the case of any request for a borrowing of an affected RFR Advance in a Foreign Currency, then such request shall be ineffective and (B)(I) any outstanding affected RFR Advances denominated in US Dollars will be deemed to have been converted into Base Rate Advances immediately or, in the case of Term RFR Advances, at the end of the applicable Interest Period and (II) any outstanding affected RFR Advances denominated in a Foreign Currency, at the Company's election, shall either be converted into Base Rate Advances denominated in US Dollars (in an amount equal to the Dollar Equivalent of such Foreign Currency) immediately or, in the case of Term RFR Advances, at the end of the applicable Interest Period or be prepaid in full immediately or, in the case of Term RFR Advances, at the end of the applicable Interest Period; provided that if no election is made by the applicable Borrower by the date that is three Business Days after receipt by the Company of such notice or, in the case of Term RFR Advances, the last day of the current Interest Period for the applicable RFR Advance, if earlier, such Borrower shall be deemed to have elected clause (1) above. Upon any such prepayment or conversion, the applicable Borrower shall also pay accrued interest (except with respect to any prepayment or conversion of a Daily Simple RFR Advance) on the amount so prepaid or converted, together with any additional amounts required pursuant to Section 9.04(c).

(ii) Subject to clause (c) below, in connection with any Eurocurrency Rate Advance, a request therefor, a continuation thereof or otherwise, if for any reason (A) the Administrative Agent shall determine (which determination shall be conclusive and binding absent manifest error) that deposits are not being offered to banks in the London or other applicable offshore interbank market for the applicable Currency, amount and Interest Period of such Advance, (B) the Administrative Agent shall determine (which determination shall be conclusive and binding absent manifest error) that a fundamental change has occurred in the foreign exchange or interbank markets with respect to the

applicable Foreign Currency (including changes in national or international financial, political or economic conditions or currency exchange rates or exchange controls), (C) the Administrative Agent shall determine (which determination shall be conclusive and binding absent manifest error) that reasonable and adequate means do not exist for the ascertaining the Adjusted Eurocurrency Rate for such Currency and Interest Period, including because the Screen Rate for the applicable Currency is not available or published on a current basis, or (D) the Required Lenders shall determine (which determination shall be conclusive and binding absent manifest error) that the Adjusted Eurocurrency Rate does not adequately and fairly reflect the cost to such Lenders of making or maintaining such Advances during such Interest Period and shall have provided notice of such determination to the Administrative Agent, then, in each case, the Administrative Agent shall promptly give notice thereof to the Company. Upon notice thereof by the Administrative Agent to the Company, any obligation of the Lenders to make Eurocurrency Rate Advances in each such Currency, and any right of the Borrowers to continue any Advance as a Eurocurrency Rate Advance in each such Currency, shall be suspended (to the extent of the affected Eurocurrency Rate Advances or the affected Interest Periods) until the Administrative Agent (with respect to clause (D), at the instruction of the Required Lenders) revokes such notice. Upon receipt of such notice, (A) any pending request for a borrowing of or continuation of Eurocurrency Rate Advances in each such affected Currency (to the extent of the affected Eurocurrency Rate Advances or the affected Interest Periods) shall be ineffective and (B)(I) any outstanding affected Eurocurrency Rate Advances denominated in US Dollars will be deemed to have been converted into Base Rate Advances at the end of the applicable Interest Period and (II) any outstanding affected Eurocurrency Rate Advances denominated in a Foreign Currency, at the applicable Borrower's (or the Company on its behalf) election, shall either (1) be converted into Base Rate Advances denominated in US Dollars (in an amount equal to the Dollar Equivalent of such Foreign Currency) at the end of the applicable Interest Period or (2) be prepaid in full at the end of the applicable Interest Period; provided that if no election is made by the applicable Borrower or the Company by the date that is the earlier of (x) the date that is three Business Days after receipt by the Company of such notice and (y) the last day of the current Interest Period for the applicable Eurocurrency Rate Advance, the applicable Borrower shall be deemed to have elected clause (1) above. Upon any such prepayment or conversion, the applicable Borrower shall also pay accrued interest on the amount so prepaid or converted, together with any additional amounts required pursuant to Section 9.04(c).

(b) Laws Affecting Adjusted Eurocurrency Rate, Adjusted Daily Simple RFR, Daily Simple RFR and Term RFR Availability. If, after the date hereof, the introduction of, or any change in, any Applicable Law or any change in the interpretation or administration thereof by any Governmental Authority, central bank or comparable agency charged with the interpretation or administration thereof, or compliance by any of the Lenders (or any of their respective Lending Offices) with any request or directive (whether or not having the force of law) of any such Governmental Authority, central bank or comparable agency, shall make it unlawful or impossible for any of the Lenders (or any of their respective Lending Offices) to honor its obligations hereunder to make or maintain any Daily Simple RFR Advance, Term RFR Advance or Eurocurrency Rate Advance, or to determine or charge interest based upon any applicable RFR, Adjusted Daily Simple RFR, Daily Simple RFR, Term RFR, the Eurocurrency Rate or the Adjusted Eurocurrency Rate, such Lender shall promptly give notice thereof to the Administrative Agent and the Administrative Agent shall promptly give notice to the Company and the other Lenders. Thereafter, until the Administrative Agent notifies the Company that such circumstances no longer exist, (i) any obligation of the Lenders to make RFR Advances or Eurocurrency Rate Advances, as applicable, in the affected Currency or Currencies, and any right of any Borrower to convert any Advance denominated in US Dollars to an RFR Advance or a Eurocurrency Rate Advance or continue any Advance as an RFR Advance or a Eurocurrency

Rate Advance, as applicable, in the affected Currency or Currencies shall be suspended and (ii) if necessary to avoid such illegality, the Administrative Agent shall compute the Base Rate without reference to clause (c) of the definition of "Base Rate", in each case until each such affected Lender notifies the Administrative Agent and the Company that the circumstances giving rise to such determination no longer exist. Upon receipt of such notice, the applicable Borrower shall, if necessary to avoid such illegality, upon demand from any Lender (with a copy to the Administrative Agent), prepay or, if applicable, (A) convert all RFR Advances or Eurocurrency Rate Advances denominated in US Dollars to Base Rate Advances or (B) convert all RFR Advances or Eurocurrency Rate Advances denominated in an affected Foreign Currency to Base Rate Advances denominated in US Dollars (in an amount equal to the Dollar Equivalent of such Foreign Currency) (in each case, if necessary to avoid such illegality, the Administrative Agent shall compute the Base Rate without reference to clause (c) of the definition of "Base Rate"), (I) with respect to Daily Simple RFR Advances, on the Interest Payment Date therefor, if all affected Lenders may lawfully continue to maintain such Daily Simple RFR Advances to such day, or immediately, if any Lender may not lawfully continue to maintain such Daily Simple RFR Advances to such day or (II) with respect to Eurocurrency Rate Advances or Term RFR Advances, on the last day of the Interest Period therefor, if all affected Lenders may lawfully continue to maintain such Eurocurrency Rate Advances or Term RFR Advances, as applicable, to such day, or immediately, if any Lender may not lawfully continue to maintain such Eurocurrency Rate Advances or Term RFR Advances, as applicable, to such day. Upon any such prepayment or conversion, the applicable Borrower shall also pay accrued interest (except with respect to any prepayment or conversion of a Daily Simple RFR Advance) on the amount so prepaid or converted, together with any additional amounts required pursuant to Section 9.04(c).

(c) Benchmark Replacement Setting.

(i) Benchmark Replacement.

(A) Notwithstanding anything to the contrary herein or in any other Loan Document, if the USD LIBOR Transition Date has occurred prior to the Reference Time in respect of any setting of the Adjusted Eurocurrency Rate for US Dollars, then (x) if a Benchmark Replacement is determined in accordance with clause (b)(1) or (b)(2) of the definition of "Benchmark Replacement" for the USD LIBOR Transition Date, such Benchmark Replacement will replace the then-current Benchmark with respect to Borrower Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, US Dollars for all purposes hereunder and under any Loan Document in respect of such Benchmark setting and subsequent Benchmark settings without any amendment to, or further action or consent of any other party to, this Agreement or any other Loan Document and (y) if a Benchmark Replacement is determined in accordance with clause (b)(3) of the definition of "Benchmark Replacement" for the USD LIBOR Transition Date, such Benchmark Replacement will replace such Benchmark for all purposes hereunder and under any Loan Document in respect of any Benchmark setting at or after 5:00 p.m. on the fifth (5th) Business Day after the date notice of such Benchmark Replacement is provided to the Lenders without any amendment to, or further action or consent of any other party to, this Agreement or any other Loan Document so long as the Administrative Agent has not received, by such time, written notice of objection to such Benchmark Replacement from Lenders comprising the Required Lenders.

(B) Notwithstanding anything to the contrary herein or in any other Loan Document, upon the occurrence of a Benchmark Transition Event or an Other Benchmark Rate Election, as applicable, with respect to any Benchmark, the Administrative Agent and the Company may amend this Agreement to replace

such Benchmark with a Benchmark Replacement. Any such amendment with respect to a Benchmark Transition Event or an Other Benchmark Rate Election, as applicable, will become effective at 5:00 p.m. on the fifth (5th) Business Day after the Administrative Agent has posted such proposed amendment to all affected Lenders and the Company so long as the Administrative Agent has not received, by such time, written notice of objection to such amendment from Lenders comprising the Required Lenders. No replacement of a Benchmark with a Benchmark Replacement pursuant to this Section 2.20(c)(i)(B) will occur prior to the applicable Benchmark Transition Start Date.

(C) Notwithstanding anything to the contrary herein or in any other Loan Document and subject to the proviso below in this paragraph, if a Term RFR Transition Date has occurred prior to the Reference Time in respect of any setting of the then-current Benchmark consisting of a Daily Simple RFR (including a Daily Simple RFR implemented as a Benchmark Replacement pursuant to Section 2.20(c)(i)(A) or Section 2.20(c)(i)(B)) for the applicable Currency, then the applicable Benchmark Replacement will replace such Benchmark for all purposes hereunder or under any Loan Document in respect of such Benchmark for the applicable Currency setting and subsequent Benchmark settings, without any amendment to, or further action or consent of any other party to, this Agreement or any other Loan Document; provided that this clause (C) shall not be effective unless the Administrative Agent has delivered to the Lenders and the Company a Term RFR Notice with respect to the applicable Term RFR Transition Event. For the avoidance of doubt, the Administrative Agent shall not be required to deliver a Term RFR Notice after a Term RFR Transition Event and may elect or not elect to do so in its sole discretion.

(ii) Benchmark Replacement Conforming Changes. In connection with the use, administration, adoption or implementation of a Benchmark Replacement, the Administrative Agent will have the right to make Conforming Changes from time to time and, notwithstanding anything to the contrary herein or in any other Loan Document, any amendments implementing such Conforming Changes will become effective without any further action or consent of any other party to this Agreement or any other Loan Document.

(iii) Notices; Standards for Decisions and Determinations. The Administrative Agent will promptly notify the Company and the Lenders of (A) the implementation of any Benchmark Replacement and (B) the effectiveness of any Conforming Changes in connection with the use, administration, adoption or implementation of a Benchmark Replacement. The Administrative Agent will promptly notify the Company of the removal or reinstatement of any tenor of a Benchmark pursuant to Section 2.20(c)(iv). Any determination, decision or election that may be made by the Administrative Agent or, if applicable, any Lender (or group of Lenders) pursuant to this Section 2.20(c), including any determination with respect to a tenor, rate or adjustment or of the occurrence or non-occurrence of an event, circumstance or date and any decision to take or refrain from taking any action or any selection, will be conclusive and binding absent manifest error and may be made in its or their sole discretion and without consent from any other party to this Agreement or any other Loan Document, except, in each case, as expressly required pursuant to this Section 2.20(c).

(iv) Unavailability of Tenor of Benchmark. Notwithstanding anything to the contrary herein or in any other Loan Document, at any time (including in connection with the implementation of a Benchmark Replacement), (A) if any then-current Benchmark is a term rate (including any Term RFR, USD LIBOR, EURIBOR, BBSY or CDOR) and

either (1) any tenor for such Benchmark is not displayed on a screen or other information service that publishes such rate from time to time as selected by the Administrative Agent in its reasonable discretion or (2) the regulatory supervisor for the administrator of such Benchmark has provided a public statement or publication of information announcing that any tenor for such Benchmark is not or will not be representative, then the Administrative Agent may modify the definition of "Interest Period" (or any similar or analogous definition) for any Benchmark settings at or after such time to remove such unavailable or non-representative tenor and (B) if a tenor that was removed pursuant to clause (A) above either (1) is subsequently displayed on a screen or information service for a Benchmark (including a Benchmark Replacement) or (2) is not, or is no longer, subject to an announcement that it is not or will not be representative for a Benchmark (including a Benchmark Replacement), then the Administrative Agent may modify the definition of "Interest Period" (or any similar or analogous definition) for all Benchmark settings at or after such time to reinstate such previously removed tenor.

(v) Benchmark Unavailability Period. Upon the Company's receipt of notice of the commencement of a Benchmark Unavailability Period with respect to a given Benchmark, (A) any Borrower may revoke any pending request for a borrowing of, conversion to or continuation of RFR Advances or Eurocurrency Rate Advances, in each case, to be made, converted or continued during any Benchmark Unavailability Period denominated in the applicable Currency and, failing that, (I) in the case of any request for any affected RFR Advances or a Eurocurrency Rate Advances, in each case, denominated in US Dollars, if applicable, the applicable Borrower will be deemed to have converted any such request into a request for a borrowing of or conversion to Base Rate Advances in the amount specified therein and (II) in the case of any request for any affected RFR Advance or Eurocurrency Rate Advance, in each case, in a Foreign Currency, if applicable, then such request shall be ineffective and (B)(I) any outstanding affected RFR Advances or Eurocurrency Rate Advances, in each case, denominated in US Dollars, if applicable, will be deemed to have been converted into Base Rate Advances immediately or, in the case of Term RFR Advances or Eurocurrency Rate Advances, at the end of the applicable Interest Period and (II) any outstanding affected RFR Advances or Eurocurrency Rate Advances, in each case, denominated in a Foreign Currency, at the applicable Borrower's election, shall either be converted into Base Rate Advances denominated in US Dollars (in an amount equal to the Dollar Equivalent of such Foreign Currency) immediately or, in the case of Term RFR Advances or Eurocurrency Rate Advances, at the end of the applicable Interest Period or be prepaid in full immediately or, in the case of Term RFR Advances or Eurocurrency Rate Advances, at the end of the applicable Interest Period; provided that, with respect to any Daily Simple RFR Advance, if no election is made by the applicable Borrower by the date that is three (3) Business Days after receipt by the applicable Borrower of such notice, the applicable Borrower shall be deemed to have elected clause (c) above; provided, further that, with respect to any Eurocurrency Rate Advance or Term RFR Advance, if no election is made by the applicable Borrower by the earlier of (x) the date that is three (3) Business Days after receipt by the Company or the applicable Borrower of such notice and (y) the last day of the current Interest Period for the applicable Eurocurrency Rate Advance or Term RFR Advance, the applicable Borrower shall be deemed to have elected clause (1) above. Upon any such prepayment or conversion, the applicable Borrower shall also pay accrued interest (except with respect to any prepayment or conversion of a Daily Simple RFR Advance) on the amount so prepaid or converted, together with any additional amounts required pursuant to Section 9.04(c). During a Benchmark Unavailability Period with respect to any Benchmark or at any time that a tenor for any then-current Benchmark is not an Available Tenor, the component of the Base Rate based upon the then-current Benchmark that is the subject of such Benchmark Unavailability Period or such tenor for such Benchmark, as applicable, will not be used in any determination of Base Rate.

(d) [Reserved].

(e) **Foreign Currencies.** If, after the designation by the Lenders of any currency as a Foreign Currency, any change in currency controls or exchange regulations or any change in national or international financial, political or economic conditions are imposed in the country in which such currency is issued, and such change results in, in the reasonable opinion of the Administrative Agent (i) such currency no longer being readily available, freely transferable and convertible into US Dollars or (ii) a Dollar Equivalent no longer being readily calculable with respect to such currency (each of clauses (i) and (ii), a “Disqualifying Event”), then the Administrative Agent shall promptly notify the Lenders and the Company, and such currency shall no longer be a Foreign Currency until such time as the Disqualifying Event(s) no longer exist. Within five Business Days after receipt of such notice from the Administrative Agent, the Borrowers shall repay all Advances denominated in such currency to which the Disqualifying Event(s) apply or convert such Advances into the Dollar Equivalent in US Dollars, bearing interest at the Base Rate, subject to the other terms contained herein.

ARTICLE III

CONDITIONS TO EFFECTIVENESS AND LENDING

SECTION 1.01. **Conditions Precedent to Effectiveness.** This Agreement shall become effective on and as of the first date on which the following conditions precedent have been satisfied (the “Effective Date”):

(a) The Company shall have paid all accrued fees and, to the extent invoiced at least two Business Days prior to the Effective Date, expenses of the Administrative Agent and the Lenders (including the accrued fees and expenses of counsel to the Administrative Agent), in each case to the extent payable pursuant to the Engagement Letter.

(b) On the Effective Date, the following statements shall be true and the Administrative Agent shall have received for the account of each Lender a certificate signed by a duly authorized officer of the Company, dated the Effective Date, stating that:

(i) The representations and warranties contained in Section 4.01 are (1) with respect to representations and warranties that contain a materiality qualification in Section 4.01, true and correct and (2) with respect to all other representations and warranties, true and correct in all material respects, in each case, on and as of the Effective Date, and

(ii) No event has occurred and is continuing that constitutes a Default.

(c) The Administrative Agent shall have received on or before the Effective Date the following, each dated such day, in form and substance satisfactory to the Administrative Agent:

(i) The Notes to the Lenders, to the extent requested by any Lender at least three Business Days before the Effective Date.

(ii) Certified copies of (1) the resolutions of the board of directors (or equivalent governing body) of each Credit Party approving this Agreement and, to the extent applicable, the other Loan Documents, and of all documents evidencing other necessary corporate or other action and governmental approvals, if any, with respect to this Agreement and the other Loan Documents, (2) the articles of incorporation or other constitutional or charter documents, as applicable, of each Credit Party and (3) the bylaws or comparable operating agreement, as applicable, of each Credit Party.

(iii) Certificates of good standing, existence or its equivalent with respect to each Credit Party certified as of a recent date by the appropriate Governmental Authorities of the state of incorporation or organization and each other state in which the failure to so qualify and be in good standing would reasonably be expected to have a Material Adverse Effect.

(iv) A certificate of the Secretary or an Assistant Secretary of each Credit Party certifying the names and true signatures of the officers of such Credit Party authorized to sign each Loan Document to which it is a party and the other documents to be delivered by it hereunder.

(v) A favorable opinion of each of (i) Cravath, Swaine & Moore LLP, special New York counsel for the Credit Parties and (ii) Latham, Shuker, Eden & Beaudine, LLP, special Florida counsel for the Credit Parties, in form and substance satisfactory to the Administrative Agent.

(vi) An officer's certificate prepared by the chief financial officer of the Company as to the solvency of the Company and its Subsidiaries, on a consolidated basis after giving effect to the effectiveness of this Agreement on the Effective Date, in substantially the form of Exhibit G hereto.

(vii) A certificate prepared by the chief financial officer of the Company certifying that the Company has, or substantially concurrently with the Effective Date will have, consummated the senior unsecured notes offering contemplated by the Company as disclosed to the Administrative Agent.

(d) The Administrative Agent shall have received pro forma Consolidated financial statements for the Company and its Subsidiaries, and projections prepared by management of the Company, of balance sheets, income statements and cash flow statements for the three year period following the Effective Date.

(e) The Administrative Agent shall have received (i) at least five Business Days (or such shorter period agreed to by the Administrative Agent in its sole discretion) for the Company and its Domestic Subsidiaries and (ii) at least fifteen Business Days (or such shorter period agreed to by the Administrative Agent in its sole discretion) for any Foreign Borrower, in each case prior to the Effective Date all documentation and other information about the Company and the other Credit Parties as has been reasonably requested in writing at least 10 Business Days prior to the Effective Date by the Administrative Agent that it (on behalf of itself and the Lenders) reasonably determines is required by regulatory authorities under applicable "know your customer" and anti-money laundering rules and regulations, including without limitation the Patriot Act.

(f) Since December 31, 2017, no Material Adverse Effect has occurred.

SECTION 1.02. Conditions Precedent to Each Borrowing, Increase Date and Extension Date. The obligation of each Lender to make an Advance on the occasion of each Borrowing, each Commitment Increase and each extension of Commitments pursuant to Section 2.17 shall be subject to the conditions precedent that the Effective Date shall have occurred, the Administrative Agent shall have received the relevant Notice of Borrowing, request for Commitment Increase or request for Commitment Extension and on the date of such Borrowing, such Increase Date or such Extension Date the following statements shall be true (and each of the giving of the applicable Notice of Borrowing, request for Commitment Increase, request for Commitment Extension and the acceptance by the applicable Borrower of the proceeds of such

Borrowing shall constitute a representation and warranty by the Borrowers that on the date of such Borrowing, such Increase Date or such Extension Date such statements are true):

(a) the representations and warranties contained in Section 4.01 are (1) with respect to representations and warranties that contain a materiality qualification in Section 4.01, true and correct and (2) with respect to all other representations and warranties, true and correct in all material respects, in each case, on and as of the date of such Borrowing, such Increase Date or such Extension Date, before and after giving effect to such Borrowing, such Increase Date or such Extension Date and to the application of the proceeds therefrom, as though made on and as of such date except to the extent such representations and warranties expressly relate to an earlier date,

(b) no event has occurred and is continuing, or would result from such Borrowing, such Increase Date or such Extension Date or from the application of the proceeds therefrom, that constitutes a Default, and

(c) in the case of any Advance denominated in a Foreign Currency, there shall not have occurred any change in national or international financial, political or economic conditions or currency exchange rates or exchange controls which in the reasonable opinion of the Administrative Agent or the Required Lenders (in the case of any Advances to be denominated in a Foreign Currency) would make it impracticable for such Advance to be denominated in the relevant Foreign Currency.

SECTION 1.03. Determinations Under Section 3.01. For purposes of determining compliance with the conditions specified in Section 3.01, each Lender shall be deemed to have consented to, approved or accepted or to be satisfied with each document or other matter required thereunder to be consented to or approved by or acceptable or satisfactory to the Lenders unless an officer of the Administrative Agent responsible for the transactions contemplated by this Agreement shall have received notice from such Lender prior to the date that the Company, by notice to the Lenders, designates as the proposed Effective Date, specifying its objection thereto. The Administrative Agent shall promptly notify the Lenders and the Company of the occurrence of the Effective Date.

ARTICLE IV

REPRESENTATIONS AND WARRANTIES

SECTION 1.01. Representations and Warranties of the Credit Parties. Each Credit Party represents and warrants as follows:

(a) Each Credit Party is duly organized or registered, validly existing and (if applicable in its jurisdiction of incorporation) in good standing under the Applicable Laws of the jurisdiction of its incorporation or formation and is in compliance with all Applicable Laws (including any Anti-Corruption Laws and including compliance with respect to each Plan but excluding those laws referred to in clauses (j), (k) and (l) below), except to the extent such non-compliance would not, individually or in the aggregate, reasonably be expected to result in a Material Adverse Effect.

(b) The execution, delivery and performance by each Credit Party of this Agreement and each other Loan Document to which it is a party, and the consummation of the transactions contemplated hereby, are within such Credit Party's capacity and corporate or other powers, have been duly and validly authorized by all necessary corporate or other action, and do not contravene (i) such Credit Party's constitutional documents, charter or bylaws (or equivalent

documents) or (ii) any Applicable Law, to include, in the case of any Credit Party incorporated under the laws of the Commonwealth of Australia, Chapter 2E or Part 2J.3 of the Corporations Act 2001 (Cwlth), or contractual restriction binding on or affecting such Credit Party, except in the case of clause (ii) to the extent such contravention would not, individually or in the aggregate, reasonably be expected to result in a Material Adverse Effect.

(c) No authorization or approval or other action by, and no notice to or filing with, any Governmental Authority or regulatory body or any other third party is required for the due and valid execution, delivery and performance by any Credit Party of this Agreement or each other Loan Document to which it is a party, except such as have been obtained or made and are in full force and effect.

(d) This Agreement has been, and each other Loan Document when delivered hereunder will have been duly executed and delivered by each Credit Party party thereto. This Agreement is, and each other Loan Document when delivered will be, the legal, valid and binding obligation of each Credit Party party thereto enforceable against such Credit Party in accordance with their respective terms.

(e) The consolidated balance sheet of the Company and its Subsidiaries as at December 31, 2017, and the related consolidated statements of operations and cash flows of the Company and its Subsidiaries for the fiscal year then ended, accompanied by an opinion of PricewaterhouseCoopers LLP, independent public accountants, and the condensed consolidated balance sheet of the Company and its Subsidiaries as at March 31, 2018, and the related condensed consolidated statements of operations and cash flows of the Company and its Subsidiaries for the three months then ended, duly certified by the chief financial officer of the Company, copies of which have been furnished to each Lender, fairly present, subject in the case of said balance sheet as at March 31, 2018, and said statements of operations and cash flows for the three months then ended, to year-end audit adjustments, the Consolidated financial condition of the Company and its Subsidiaries as at such dates and the Consolidated results of the operations of the Company and its Subsidiaries for the periods ended on such dates, all in accordance with generally accepted accounting principles consistently applied.

(f) There is no pending or, to the knowledge of the Company, threatened action, suit, investigation, litigation or proceeding, including, without limitation, any Environmental Action, affecting the Company or any of its Subsidiaries before any court, governmental agency or arbitrator that (i) is pending or, to the knowledge of the Company, threatened as of the Effective Date and is reasonably likely to have a Material Adverse Effect or (ii) purports to affect the legality, validity or enforceability of this Agreement or any other Loan Document.

(g) No Borrower is, and immediately after the application by any Borrower of the proceeds of each Advance will not be, an "investment company" within the meaning of the Investment Company Act of 1940, as amended.

(h) After giving effect to the application of the proceeds of each Advance, not more than 25% of the value of the assets of the Company and its Subsidiaries (as determined in good faith by the Company) subject to the provisions of Section 5.02(a) or subject to any restriction contained in any agreement or instrument between any Borrower and any Lender or any Affiliate of any Lender relating to Debt and within the scope of Section 6.01(d), will consist of or be represented by Margin Stock.

(i) All factual information furnished by or on behalf of the Company or any of its Subsidiaries to the Administrative Agent or any Lender in connection with the negotiation of this Agreement or any other Loan Document, included herein or therein or furnished hereunder or thereunder (as modified or supplemented by other information so furnished) does not contain any

material misstatement of fact or omit to state any material fact necessary to make the statements therein, in the light of the circumstances under which they were made, not materially misleading.

(j) Each of the Credit Parties and their Subsidiaries is in compliance with the FCPA. Neither the Company nor any of its Subsidiaries has made a payment, offering, or promise to pay, or authorized the payment of, money or anything of value (a) in order to assist in obtaining or retaining business for or with, or directing business to, any foreign official, foreign political party, party official or candidate for foreign political office, (b) to a foreign official, foreign political party or party official or any candidate for foreign political office, and (c) with the intent to induce the recipient to misuse his or her official position to direct business wrongfully to the Company or its Subsidiary or to any other Person, in each case in violation of the FCPA.

(k) None of the Company, any of its Subsidiaries or, to their knowledge, any of their respective directors or executive officers, is in violation of any Sanctions. None of the Company or any of its Subsidiaries, (i) is a Sanctioned Person or a Sanctioned Entity, (ii) has assets located in Sanctioned Countries or (iii) derives its operating income from investments in, or transactions with Sanctioned Persons or Sanctioned Entities, except, in the case of clauses (ii) and (iii), (x) to the extent permitted under General License H issued by OFAC pursuant to the Iranian Transactions and Sanctions Regulations, 31 C.F.R. part 560, on January 16, 2016 or (y) as otherwise not in violation of any Sanctions or other Applicable Laws. To the knowledge of the Company or its Subsidiaries, none of their respective directors or executive officers is a Sanctioned Person or a Sanctioned Entity. No proceeds of any Advance will be used (x) to fund any operations in, finance any investments or activities in or with, or make any payments to, a Sanctioned Person or a Sanctioned Entity, except to the extent permissible for an individual or entity required to comply with Sanctions, (y) in violation of any applicable Sanctions or Anti-Corruption Law or (z) in any other manner that would cause any Lender to be in violation of any Sanctions.

(l) Neither the Company nor any of its Subsidiaries is an “enemy” or an “ally of the enemy” within the meaning of Section 2 of the Trading with the Enemy Act of the United States of America (50 U.S.C. App. §§ 1 et seq.) (the “Trading with the Enemy Act”), as amended. Neither the Company nor any of its Subsidiaries is in violation of (a) the Trading with the Enemy Act, as amended, (b) any of the foreign assets control regulations of the United States Treasury Department (31 CFR, Subtitle B, Chapter V, as amended) or any enabling legislation or executive order relating thereto or (c) the Patriot Act. None of the Credit Parties (i) is a blocked person described in Section 1 of the Anti-Terrorism Order or (ii) to its knowledge, engages in any dealings or transactions, or is otherwise associated, with any such blocked person.

(m) The Company or its Subsidiaries are the owner of, or have a valid leasehold interest in, all of their respective real and personal property material to the conduct of the business of the Company and its Subsidiaries, taken as a whole, and none of such assets is subject to any Lien other than Permitted Liens or Liens permitted by Section 5.02(a).

(n) Each of the Credit Parties and its Subsidiaries has filed, or caused to be filed, all income Tax returns and all other Tax returns (federal, state, local and foreign) required to be filed and paid (a) all amounts of Taxes shown thereon to be due (including interest and penalties) and (b) all other Taxes, fees, assessments and other governmental charges (including mortgage recording Taxes, documentary stamp Taxes and intangibles Taxes) owing by it, except (i) Taxes that are not yet delinquent, (ii) Taxes that are being contested in good faith and by proper proceedings, and against which adequate reserves are being maintained in accordance with GAAP or (iii) to the extent that failure to do so would not reasonably be expected, individually or in the aggregate, to result in a Material Adverse Effect.

(o) Except as disclosed and except for instances that would not reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect, (i) the facilities and properties owned, leased or operated by the Credit Parties or any of their Subsidiaries (the “Properties”) are not contaminated with any Hazardous Materials in amounts or concentrations which (y) constitute a violation of, or (z) would reasonably be expected to subject any Credit Party to liability under any Environmental Law, (ii) the operations of the Credit Parties and/or their Subsidiaries at the Properties are in compliance, and have in the last five years been in compliance, with all Environmental Laws, (iii) neither the Credit Parties nor their Subsidiaries have received any unresolved written notice alleging responsibility for a violation, non-compliance, liability or potential liability of any Credit Party under Environmental Laws regarding any of the Properties or the Business, nor do the Credit Parties or their Subsidiaries have knowledge that any such notice will be received or is being threatened, (iv) to the knowledge of the Credit Parties, Hazardous Materials have not been transported or disposed of by or on behalf of any Credit Party in violation of, or in a manner that could reasonably be expected to give rise to liability on behalf of any Credit Party, under any Environmental Law, and no Hazardous Materials have been generated, treated, stored or disposed of at, on or under any of the Properties in violation of, or in a manner that would reasonably be expected to give rise to liability on behalf of any Credit Party under, any Environmental Law and (v) no judicial proceeding or governmental or administrative action is pending or, to the knowledge of the Credit Parties and their Subsidiaries, threatened, under any Environmental Law to which any Credit Party or any Subsidiary is or is expected to be named as a party with respect to the Properties or the business operated by the Credit Parties or any of their Subsidiaries, nor is any Credit Party or Subsidiary a party to any outstanding consent decrees or other decrees, consent orders, administrative orders or other orders, in each case, by or with any governmental entity, under any Environmental Law with respect to the Properties or the business operated by the Credit Parties or any of their Subsidiaries.

(p) Except as would not reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect, (i) no ERISA Event has occurred during the five-year period prior to the date on which this representation is made or deemed made with respect to any Plan and (ii) neither any Borrower nor any of its ERISA Affiliates is currently subject to any liability for a complete or partial withdrawal from a Multiemployer Plan. The present value of all accrued benefits under all Single Employer Plans taken in the aggregate (based on the assumptions used to fund such Plans) did not, as of the last annual valuation date prior to the date on which this representation is being made or deemed made, exceed by greater than \$35,000,000 the value of the assets of such Plans taken in the aggregate allocable to such accrued benefits.

(q) Except as would not reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect, (i) there are no strikes, walkouts, work stoppages or other labor difficulty pending or, to the knowledge of any Credit Party, threatened against any Credit Party and (ii) no unfair labor practice complaint is pending against any Credit Party or any of its Subsidiaries.

(r) As of the Effective Date, each Material Contract is, after giving effect to the transactions contemplated to occur on the Effective Date, in full force and effect.

(s) No Credit Party is an EEA Financial Institution.

ARTICLE V

COVENANTS OF THE CREDIT PARTIES

SECTION 1.01. Affirmative Covenants. So long as any Advance shall remain unpaid or any Lender shall have any Commitment hereunder, each of the Credit Parties will:

(a) Compliance with Laws, Etc. Comply, and cause each of its Subsidiaries to comply, in all material respects, with all Applicable Laws, rules, regulations and orders, such compliance to include, without limitation, compliance with ERISA and Environmental Laws and, in the case of any Credit Party incorporated under the laws of the Commonwealth of Australia, Chapter 2E and Part 2J.3 of the Corporations Act 2001 (Cwlth), except, in each case, to the extent that any failures to so comply, individually or in the aggregate, would not be reasonably likely to have a Material Adverse Effect; provided, however, that neither the Company nor any of its Subsidiaries shall be required to comply with any law, rule, regulation or order to the extent it is being contested in good faith and by proper proceedings and as to which appropriate reserves are being maintained. The Company shall maintain, and cause each of its Subsidiaries to maintain, policies and procedures designed to ensure compliance with applicable Sanctions and Anti-Corruption Laws.

(b) Payment of Taxes, Etc. Pay and discharge, and cause each of its Subsidiaries to pay and discharge, before the same shall become delinquent, all material Taxes, assessments and governmental charges or levies imposed upon it or upon its property; provided, however, that neither the Company nor any of its Subsidiaries shall be required to pay or discharge any such Tax, assessment, charge or claim that is being contested in good faith and by proper proceedings and as to which appropriate reserves are being maintained.

(c) Maintenance of Insurance. Maintain, and cause each of its Significant Subsidiaries to maintain, insurance with responsible and reputable insurance companies or associations in such amounts and covering such risks as is usually carried by companies engaged in similar businesses and owning similar properties in the same general areas in which each Credit Party or such Significant Subsidiary operates.

(d) Preservation of Corporate Existence, Etc. Preserve and maintain its corporate or other legal existence, rights (charter and statutory) and franchises if the loss or failure to maintain the same would, individually or in the aggregate, be reasonably likely to have a Material Adverse Effect; provided, however, that the Company or any of its Subsidiaries may consummate any merger, consolidation or other transaction permitted under Section 5.02(b).

(e) Visitation Rights. At any reasonable time and from time to time on reasonable notice and at reasonable intervals, permit the Administrative Agent or any of the Lenders, or any agents or representatives thereof, to visit the properties of the Company and any of its Subsidiaries and to discuss the affairs, finances and accounts of the Company and any of its Subsidiaries with any of their officers or directors and, during the continuance of any Default, to examine and make copies of and abstracts from the records and books of account of the Company and any of its Subsidiaries and (provided that an officer or officers of the Company are afforded a reasonable opportunity to be present) to discuss the affairs, finances and accounts of the Company and any of its Subsidiaries with their independent certified public accountants.

(f) Keeping of Books. Keep, and cause each of its Subsidiaries to keep, proper books of record and account, in which entries shall be made of all financial transactions and the assets and business of the Company and each such Subsidiary in accordance with generally accepted accounting principles in effect from time to time.

(g) Maintenance of Properties, Etc. Maintain and preserve, and cause each of its Significant Subsidiaries to maintain and preserve, all of its properties that are used or useful in the conduct of its business in good working order and condition, ordinary wear and tear excepted, except to the extent that any failure to do so, individually or in the aggregate, would not be reasonably likely to have a Material Adverse Effect.

(h) Primary Business. Continue to be engaged primarily in lines of business as carried on at the date hereof or lines of business related, complementary or ancillary thereto.

(i) Reporting Requirements. Furnish to the Administrative Agent (who shall furnish to the Lenders):

(i) as soon as available and in any event within 45 days after the end of each of the first three quarters of each fiscal year of the Company, the consolidated balance sheet of the Company and its Subsidiaries as of the end of such quarter and consolidated statements of income and cash flows of the Company and its Subsidiaries for the period commencing at the end of the previous fiscal year and ending with the end of such quarter, duly certified (subject to year-end audit adjustments) by the chief financial officer of the Company as having been prepared in accordance with generally accepted accounting principles and a certificate of the chief financial officer of the Company as to compliance with the terms of this Agreement, provided that in the event of any change in GAAP used in the preparation of such financial statements, the Company shall also provide, if necessary for the determination of compliance with Section 5.03, a statement of reconciliation conforming such financial statements to GAAP;

(ii) as soon as available and in any event within 90 days after the end of each fiscal year of the Company, a copy of the audited financial statements for such year for the Company and its Subsidiaries, containing the consolidated balance sheet of the Company and its Subsidiaries as of the end of such fiscal year and consolidated statements of income and cash flows of the Company and its Subsidiaries for such fiscal year, in each case accompanied by an opinion by PricewaterhouseCoopers LLP or other independent public accountants of recognized national standing and a certificate of the chief financial officer of the Company as to compliance with the terms of this Agreement, provided that in the event of any change in GAAP used in the preparation of such financial statements, the Company shall also provide, if necessary for the determination of compliance with Section 5.03, a statement of reconciliation conforming such financial statements to GAAP;

(iii) as soon as possible and in any event within seven days after obtaining knowledge of the occurrence of each Default continuing on the date of such statement, a statement of the chief financial officer of the Company setting forth details of such Default and the action that the Company has taken and proposes to take with respect thereto;

(iv) [reserved];

(v) promptly after the commencement thereof, notice of all actions and proceedings before any court, governmental agency or arbitrator affecting the Company or any of its Subsidiaries of the type described in Section 4.01(f);

(vi) such other information respecting the Company or any of its Subsidiaries as any Lender through the Administrative Agent may from time to time reasonably request; and

(vii) promptly following any request therefor, information and documentation reasonably requested by the Administrative Agent or any Lender for purposes of compliance with applicable “know your customer” requirements under the PATRIOT Act, the Beneficial Ownership Regulation (including a Beneficial Ownership Certification) or other applicable anti-money laundering laws.

(j) Additional Subsidiaries; Additional Foreign Borrowers and Guarantors.

(i) If, after the Effective Date, any Person becomes a Material Domestic Subsidiary (whether as a result of an acquisition of a Material Domestic Subsidiary or otherwise) (with respect to any such Material Domestic Subsidiary, the date on which it becomes a Material Domestic Subsidiary, a “Guarantor Reference Date”), the Company shall, on or prior to the latest of (i) the date that is forty-five days after the Guarantor Reference Date, (ii) the first date after the Guarantor Reference Date on which an Advance is made or is outstanding and (iii) such later date as may be agreed by the Administrative Agent in its reasonable discretion, cause such Person to: (A) become a Guarantor of Borrower Obligations by delivering to the Administrative Agent a duly executed supplement to this Agreement or such other document as the Administrative Agent shall reasonably deem appropriate for such purpose, (B) deliver to the Administrative Agent such opinions, documents and certificates referred to in Section 3.01(c) as may be reasonably requested by the Administrative Agent, (C) deliver to the Administrative Agent such updated Schedules to this Agreement as reasonably requested by the Administrative Agent with respect to such Person and (D) deliver to the Administrative Agent such other documents as may be reasonably requested by the Administrative Agent, all in form, content and scope reasonably satisfactory to the Administrative Agent.

(ii) The Company may, on 15 days’ notice to the Administrative Agent, elect to add as a Foreign Borrower under this Agreement any Subsidiary of the Company (A) that is organized under the laws of England, Wales, Scotland, Northern Ireland, Canada, Australia or Singapore or (B) that is organized under the laws of any other foreign jurisdiction with the consent of the Administrative Agent and each of the Lenders (in each case, in such Person’s sole discretion) on terms and conditions satisfactory to the Administrative Agent and each such Lender, so long as, in each case for any election described above in clause (ii)(A) or (ii)(B), (x) the Administrative Agent (on behalf of the Lenders pursuant to Section 7.01), the Company and the new Foreign Borrower have entered into a joinder agreement, in form and substance reasonably satisfactory to the Administrative Agent, which joinder agreement may include any amendment or other modification to this Agreement as is reasonably necessary to incorporate any terms required by the laws of the country in which such Foreign Borrower is organized, including, without limitation, terms necessary to make this Agreement enforceable against such Foreign Borrower under the laws of such country and to ensure the Advances, actions and obligations of the Lenders hereunder with respect to such Foreign Borrower will be permitted under the laws of such country, and (y) the Administrative Agent and the Lenders (1) have received all documentation and other information required by regulatory authorities under applicable “know your customer” and anti-money-laundering rules and regulations, including, without limitation, the Patriot Act and the Beneficial Ownership Regulation (including a Beneficial Ownership Certification), (2) are reasonably satisfied with the results of such documentation and other information and (3) have received items comparable to the deliverables provided to the Lenders with respect to the Company as of the Effective Date.

(iii) The Company may, on five Business Days’ notice to the Administrative Agent (or such shorter period as may be agreed by the Administrative Agent in its reasonable discretion), terminate a Foreign Borrower’s status as such upon the execution by the Company and delivery to the Administrative Agent of a termination agreement, in form and substance reasonably satisfactory to the Administrative Agent, with respect to such Foreign Borrower; provided that no such termination agreement shall become effective as to any Foreign Borrower (other than to terminate its right to make further Borrowings under this Agreement) until all Advances made to the terminated Foreign

Borrower have been repaid and all amounts payable by such terminated Foreign Borrower in respect of interest and/or fees (and, to the extent notified by the Administrative Agent or any Lender, any other amounts payable by the terminated Foreign Borrower under any Loan Document) have been paid in full. The Administrative Agent will promptly notify the Lenders of any such termination of a Foreign Borrower's status.

SECTION 1.02. Negative Covenants. So long as any Advance shall remain unpaid or any Lender shall have any Commitment hereunder, no Credit Party will:

(a) **Liens, Etc.** Create or suffer to exist, or permit any of its Subsidiaries to create or suffer to exist, any Lien on or with respect to any of its properties (which for purposes of this subsection (a) shall be deemed not to include shares of the Company's capital stock), whether now owned or hereafter acquired, or assign, or permit any of its Subsidiaries to assign, any right to receive income, other than:

(i) Permitted Liens;

(ii) Liens securing purchase money Debt, Liens on fixed or capital assets acquired, constructed or improved and capital lease obligations (and refinancings of any thereof) to the extent permitted under Section 5.02(d)(iii); provided, that (i) any such Lien attaches to such property prior to, concurrently with or within 90 days after the acquisition, construction, improvement or lease thereof and (ii) such Lien attaches solely to the property so acquired, constructed, improved or leased in such transaction;

(iii) the Liens existing on the Effective Date and described on Schedule 5.02(a) hereto;

(iv) any Lien existing on any asset prior to the acquisition thereof by the Company or any Subsidiary or existing on any asset of any Person that becomes a Subsidiary after the Effective Date prior to the time such Person becomes a Subsidiary; provided that (i) such Lien is not created in contemplation of or in connection with such acquisition or such Person becoming a Subsidiary, as the case may be, (ii) such Lien shall not apply to any other assets of the Company or any Subsidiary and (iii) such Lien shall secure only those obligations which it secures on the date of such acquisition or the date such Person becomes a Subsidiary, as the case may be, and extensions, renewals and replacements thereof that do not increase the outstanding principal amount thereof;

(v) Liens securing Debt payable by a Subsidiary to a Credit Party;

(vi) other Liens securing Debt in an aggregate principal amount not to exceed at any time outstanding an amount equal to the greater of (i) \$150,000,000 and (ii) 3.5% of the book value of the Consolidated Assets calculated as of the date of Lien incurrence; and

(vii) the replacement, extension or renewal of any Lien permitted by clauses (ii) (iii) or (iv) above upon or in the same property theretofore subject thereto or the replacement, extension or renewal (without increase in the amount other than to the extent of any reasonable fees and expenses in connection with any such replacement, extension or renewal) of the Debt secured thereby.

(b) **Mergers, Etc.** Merge or consolidate with or into, or convey, transfer, lease or otherwise dispose of (whether in one transaction or in a series of transactions) all or substantially all of its assets (whether now owned or hereafter acquired) to, any Person, except:

(i) (A) any Wholly-Owned Subsidiary of the Company may be merged, amalgamated or consolidated with or into the Company (provided that the Company shall be the continuing or surviving entity) or (B) any Wholly-Owned Subsidiary of the Company may be merged, amalgamated or consolidated with or into any Guarantor (provided that the Guarantor shall be the continuing or surviving entity or simultaneously with such transaction, the continuing or surviving entity shall become a Guarantor and the Company shall comply with Section 5.01(j) in connection therewith);

(ii) (A) any Non-Guarantor Subsidiary that is a Foreign Subsidiary may be merged, amalgamated or consolidated with or into, or be liquidated into, any other Subsidiary and (B) any Non-Guarantor Subsidiary that is a Domestic Subsidiary may be merged, amalgamated or consolidated with or into, or be liquidated into, any other Domestic Subsidiary;

(iii) any Subsidiary of the Company may dispose of all or substantially all of its assets (upon voluntary liquidation, dissolution, winding up or otherwise) to the Company or any Guarantor; provided that, with respect to any such disposition by any Non-Guarantor Subsidiary, the consideration for such disposition shall not exceed the fair value of such assets;

(iv) (A) any Non-Guarantor Subsidiary that is a Foreign Subsidiary may dispose of all or substantially all of its assets (upon voluntary liquidation, dissolution, winding up or otherwise) to any other Subsidiary and (B) any Non-Guarantor Subsidiary that is a Domestic Subsidiary may dispose of all or substantially all of its assets (upon voluntary liquidation, dissolution, winding up or otherwise) to any other Domestic Subsidiary;

(v) any Subsidiary of the Company may merge with or into any Person; provided that in the case of any merger involving a Wholly-Owned Subsidiary that is a Guarantor, (x) a Guarantor shall be the continuing or surviving entity; (y) simultaneously with such transaction, the continuing or surviving entity shall become a Guarantor and the Company shall comply with Section 5.01(j) in connection therewith or (z) after giving effect to such merger, the surviving entity is not a Subsidiary of the Company and no longer a Guarantor;

(vi) any merger, consolidation, transfer or disposition that is the direct result of the Purdue Transaction; and

(vii) any Guarantor may dispose of all or substantially all of its assets to any other Person that is not the Company or any other Guarantor; provided that at the time of such disposition, the Company is in pro forma compliance with each of the financial covenants set forth in Section 5.03 after giving effect to such disposition;

provided that the Company may merge or consolidate with any other Person so long as the Company is the surviving entity and provided further that no Default shall have occurred and be continuing at the time of such proposed transaction or would result therefrom.

(c) Accounting Changes; Material Contracts. Make or permit, or permit any of its Subsidiaries to make or permit, any change in accounting policies or reporting practices, except as permitted by generally accepted accounting principles and, in the case of any material change, concurred with by the Company's independent public accountants. The Company will not, nor will it permit any Subsidiary to, amend, modify or waive, in any manner that would reasonably be expected to materially adversely affect the Lenders, any of its rights under any Material Contract without the prior written consent of the Required Lenders.

(d) Debt, Investments and Restricted Payments. Create, incur, assume or permit to exist any Debt or make any Investments or Restricted Payments, or permit any of its Subsidiaries to do the same, except:

- (i) Debt arising or existing under this Agreement and the other Loan Documents;
- (ii) Debt or Investments existing on the Effective Date and described on Schedule 5.02(d) hereto;
- (iii) Debt of the Company and/or its Subsidiaries incurred after the Effective Date consisting of capital leases or Debt incurred to provide all or a portion of the purchase price or cost of acquisition of any real property and/or construction and improvements thereon or equipment or other fixed assets acquired or held by the Company and its Subsidiaries; provided that (i) such Debt when incurred shall not exceed the purchase price or cost of acquisition, construction or improvement of such asset(s); (ii) no such Debt shall be renewed, refinanced or extended for a principal amount in excess of the principal balance outstanding thereon at the time of such renewal, refinancing or extension (other than with respect to reasonable fees and expenses in connection with any such renewal, refinancing or extension); and (iii) the total amount of all such Debt shall not exceed \$15,000,000 at any time outstanding;
- (iv) Guarantees of any Debt otherwise permitted to be incurred hereunder;
- (v) Unsecured intercompany Debt among the Credit Parties or between Non-Guarantor Subsidiaries;
- (vi) Investments in, and loans to, any Credit Party;
- (vii) Investments in, and loans to, any Non-Guarantor Subsidiary in an aggregate amount not to exceed \$25,000,000 at any time outstanding;
- (viii) Investments by any Non-Guarantor Subsidiary in another Non-Guarantor Subsidiary;
- (ix) Permitted Investments;
- (x) other Debt, Investments and Restricted Payments of the Company and its Subsidiaries; provided that at the time of the initial creation, incurrence or assumption thereof, the Company is in pro forma compliance with each of the financial covenants set forth in Section 5.03 after giving effect to such Debt, Investments and Restricted Payment, as applicable; provided further that any acquisition shall not be a “hostile” acquisition.

(e) Transactions with Affiliates. Enter into, or permit any of their Subsidiaries to enter into, any transaction or series of transactions, whether or not in the ordinary course of business, with any officer, director, shareholder or Affiliate involving aggregate payments or consideration in excess of \$5,000,000, except (i) transactions on terms and conditions not materially less favorable than would be obtainable in a comparable arm's-length transaction with a Person other than an officer, director, shareholder or Affiliate, (ii) transactions solely between or among the Company and/or any of its Subsidiaries, (iii) any Debt, Investment or Restricted Payment permitted by Section 5.02(d), and (iv) reasonable and customary compensation and reimbursements of expenses and indemnities provided to any director, officer or employee.

(f) **Sale Leasebacks.** Will not, nor permit any of its Subsidiaries to, directly or indirectly, become or remain liable as lessee or as guarantor or other surety with respect to any lease, whether an operating lease or a capital lease, of any property (whether real, personal or mixed), whether now owned or hereafter acquired, (a) which any Credit Party or any Subsidiary has sold or transferred or is to sell or transfer to a Person which is not a Credit Party or (b) which any Credit Party or any Subsidiary intends to use for substantially the same purpose as any other property which has been sold or is to be sold or transferred by a Credit Party or a Subsidiary to another Person which is not a Credit Party in connection with such lease, in each case unless (i) any capital lease obligations arising in connection therewith are permitted under Section 5.02(d) and (ii) any Liens arising in connection therewith (including Liens deemed to arise in connection with any such capital lease obligations) are permitted under Section 5.02(a).

(g) **No Further Negative Pledges.** Assume or become, or permit any of its Subsidiaries to assume or become, subject to any agreement prohibiting or otherwise restricting the creation or assumption of any Lien upon any of their properties or assets, whether now owned or hereafter acquired, to secure any Borrower Obligations, except (i) pursuant to this Agreement and the other Loan Documents, (ii) restrictions and conditions imposed by Applicable Law or existing on the Effective Date, (iii) pursuant to any document or instrument governing Debt incurred pursuant to Section 5.02(d)(iii); provided that any such restrictions apply only to the assets securing such Debt, (iv) in connection with any Permitted Lien or Lien permitted under Section 5.02(a) or any document or instrument governing any Permitted Lien or such other Lien; provided that any such restriction contained therein relates only to the asset or assets subject to such Permitted Lien, (v) customary restrictions contained in agreements relating to the sale of assets that are applicable solely pending such sale, provided that such restrictions and conditions apply only to the assets to be sold, (vi) restrictions imposed by agreements relating to Debt of any Subsidiary in existence at the time such Subsidiary became a Subsidiary, (vii) customary provisions in leases and other agreements restricting the assignment thereof, (viii) in the case of any Subsidiary that is not a Wholly-Owned Subsidiary, restrictions imposed by its organizational documents or any related joint venture or similar agreement; provided that such restrictions and conditions apply only to such Subsidiary and to any Equity Interests in such Subsidiary and (ix) restrictions imposed by the definitive documentation related to the Company's 5.75% unsecured notes due 2026 and any refinancing thereof on terms substantially similar to such unsecured notes.

SECTION 1.03. Financial Covenants. So long as any Advance shall remain unpaid or any Lender shall have any Commitment hereunder, the Company and its Subsidiaries will maintain, as of the end of each fiscal quarter beginning with the fiscal quarter ending June 30, 2018:

- (a) a Total Net Leverage Ratio of not greater than 3.50 to 1.00; and
- (b) a Consolidated Interest Coverage Ratio of not less than 3.50 to 1.00.

ARTICLE VI

EVENTS OF DEFAULT

SECTION 1.01. Events of Default. If any of the following events ("Events of Default") shall occur and be continuing:

(a) Any principal of any Advance shall not be paid when the same becomes due and payable (or, if any such failure is due solely to technical or administrative difficulties relating to the transfer of such principal payment, within two Business Days after the same becomes due)

and payable); or any interest on any Advance or any other fees or other amounts payable under this Agreement or any other Loan Document shall not be paid within three Business Days after the same becomes due and payable; or

(b) Any representation or warranty made by any Credit Party in any Loan Document or by any Credit Party (or any of its officers) in connection with any Loan Document shall prove to have been incorrect in any material respect when made; or

(c) (i) Any Credit Party shall fail to perform or observe any term, covenant or agreement contained in Section 2.16, 5.01(d) or (i)(iii), 5.02 or 5.03, or (ii) any Credit Party shall fail to perform or observe any other term, covenant or agreement contained in this Agreement on its part to be performed or observed if such failure shall remain unremedied for 30 days after written notice thereof shall have been given to the Company by the Administrative Agent or any Lender; or

(d) (i) The Company and/or any of its Subsidiaries shall fail to pay any principal of or premium or interest on any Debt (other than Non-Recourse Debt), individually or collectively, that is outstanding in a principal amount of at least \$35,000,000 in the aggregate (but excluding Debt outstanding hereunder), when the same becomes due and payable (whether by scheduled maturity, required prepayment, acceleration, demand or otherwise), and such failure shall continue after the applicable grace period, if any, specified in the agreement or instrument relating to such Debt; or (ii) any other event shall occur or condition shall exist under any agreement or instrument relating to any such Debt and shall continue after the applicable grace period, if any, specified in such agreement or instrument, if the effect of such event or condition is to accelerate, or to permit the acceleration of, the maturity of such Debt; provided that this clause (d)(ii) shall not apply to secured Debt that becomes due as a result of the voluntary sale or transfer of the property or assets securing such Debt if the amount that becomes due is promptly paid; or

(e) Any Credit Party or any of the Company's Significant Subsidiaries shall generally not pay its debts as such debts become due, or shall admit in writing its inability to pay its debts generally, or shall make a general assignment for the benefit of creditors; a moratorium is declared in respect of any indebtedness of any Credit Party or any of the Company's Significant Subsidiaries or any proceeding shall be instituted by or against any Credit Party or any of the Company's Significant Subsidiaries seeking to adjudicate it bankrupt or insolvent, or seeking liquidation, winding up, reorganization (by way of voluntary arrangement, scheme or otherwise), dissolution, administration, judicial management, provisional supervision, arrangement, adjustment, protection, relief, or composition of it or its debts or any analogous procedure or step taken under any Debtor Relief Laws, or seeking the entry of an order for relief or the appointment of a receiver, trustee, custodian, judicial manager, administrator, administrative receiver, compulsory manager, provisional supervisor or other similar official for it or for any substantial part of its property and, in the case of any such proceeding instituted against it (but not instituted by it), either such proceeding shall remain undismissed or unstayed for a period of 60 days, or in such proceeding the entry of an order for relief against, or the appointment of a receiver, trustee, custodian, judicial manager, administrator, administrative receiver, compulsory manager, provisional supervisor, liquidator or other similar official for, it or for any substantial part of its property shall occur or, in the case of any Foreign Borrower formed under the laws of Australia, any corporate action or legal proceedings are taken in relation to the appointment of a liquidator, receiver, administrator, administrative receiver, compulsory manager or other similar officer in respect of it or any of its assets; or any Credit Party or any of the Company's Significant Subsidiaries shall take any corporate action to authorize any of the actions set forth above in this subsection (e); or

(f) Any judgment or order of a court of competent jurisdiction for the payment of money in excess of \$35,000,000 shall be rendered against any Credit Party or any of the Company's Significant Subsidiaries, such judgment shall not be satisfied or otherwise discharged and either (i) enforcement proceedings shall have been legally commenced by any creditor upon such judgment or order or (ii) there shall be any period of 60 consecutive days during which a stay of enforcement of such judgment or order, by reason of a pending appeal or otherwise, shall not be in effect; provided, however, that any such judgment or order shall not be an Event of Default under this Section 6.01(f) if and for so long as (x) the amount of such judgment or order is covered by a valid and binding policy of insurance between the defendant and the insurer covering payment thereof and (y) such insurer, which shall be rated at least "A-" by A.M. Best Company, has been notified of, and has not disputed the claim made for payment of, the amount of such judgment or order; or

(g) Any Person or two or more Persons acting in concert (other than the Graham Interests) shall have acquired beneficial ownership (within the meaning of Rule 13d-3 of the Securities and Exchange Commission under the Securities Exchange Act of 1934), directly or indirectly, of Voting Stock of the Company (or other securities convertible into such Voting Stock) representing 30% or more of the combined voting power of all Voting Stock of the Company and such combined voting power exceeds the then current voting power of the Voting Stock of the Company (or other securities convertible into such Voting Stock) controlled by the Graham Interests; or

(h) Any Credit Party or any of its ERISA Affiliates shall incur liability as a result of one or more of the following: (i) the occurrence of any ERISA Event; (ii) the partial or complete withdrawal of any Credit Party or any of its ERISA Affiliates from a Multiemployer Plan or a determination that a Multiemployer Plan is in "endangered" or "critical" status within the meaning of Section 432 of the Internal Revenue Code or Section 305 of ERISA; or (iii) the reorganization, insolvency or termination of a Multiemployer Plan; provided that, in the event of any of the above and, in the reasonable opinion of the Required Lenders, such liability would reasonably be likely to result in a Material Adverse Effect, provided, further, that any such liability in an amount not to exceed \$35,000,000 shall be deemed not to be reasonably likely to result in a Material Adverse Effect;

(i) At any time after the execution and delivery thereof, any Loan Document, for any reason other than the satisfaction in full of all Borrower Obligations, shall cease to be in full force and effect (other than in accordance with its terms) or shall be declared to be null and void, or any Credit Party shall contest the validity or enforceability of any Loan Document in writing or deny in writing that it has any further liability, including with respect to future advances by the Lenders, under any Loan Document to which it is a party; or

(j) At any time after the Effective Date, the Guaranty, for any reason other than the satisfaction in full of all Borrower Obligations, shall cease to be in full force and effect (other than in accordance with its terms or the terms hereof) or shall be declared to be null and void, or any Credit Party shall contest the validity or enforceability of the Guaranty in writing;

then, and in any such event, the Administrative Agent (i) shall at the request, or may with the consent, of the Required Lenders, by notice to the Company, declare the obligation of each Lender to make Advances to be terminated, whereupon the same shall forthwith terminate, (ii) shall at the request, or may with the consent, of the Required Lenders, by notice to the Company, declare the Advances, all interest thereon and all other amounts payable under this Agreement to be forthwith due and payable, whereupon the Advances, all such interest and all such amounts shall become and be forthwith due and payable, without presentment, demand, protest or further notice of any kind, all of which are hereby expressly waived by each Credit Party, and (iii) shall at the request, or may with the consent, of the Required Lenders, exercise such other rights and

remedies as provided under the Loan Documents and under Applicable Laws; provided, however, that in the event of an actual or deemed entry of an order for relief with respect to any Credit Party under any Debtor Relief Laws, (A) the obligation of each Lender to make Advances shall automatically be terminated and (B) the Advances, all such interest and all such amounts shall automatically become and be due and payable, without presentment, demand, protest or any notice of any kind, all of which are hereby expressly waived by each Credit Party.

ARTICLE VII

THE ADMINISTRATIVE AGENT

SECTION 1.01. Appointment and Authority. Each of the Lenders hereby irrevocably appoints Wells Fargo Bank to act on its behalf as the Administrative Agent hereunder and under the other Loan Documents and authorizes the Administrative Agent to take such actions on its behalf and to exercise such powers as are delegated to the Administrative Agent by the terms hereof or thereof, together with such actions and powers as are reasonably incidental thereto. The provisions of this Article are solely for the benefit of the Administrative Agent and the Lenders, and, except as provided in Section 7.07, neither the Company nor any Subsidiary thereof shall have rights as a third-party beneficiary of any of such provisions. It is understood and agreed that the use of the term "agent" herein or in any other Loan Documents (or any other similar term) with reference to the Administrative Agent is not intended to connote any fiduciary or other implied (or express) obligations arising under agency doctrine of any Applicable Law. Instead such term is used as a matter of market custom, and is intended to create or reflect only an administrative relationship between contracting parties.

SECTION 1.02. Rights as a Lender. The Person serving as the Administrative Agent hereunder shall have the same rights and powers in its capacity as a Lender as any other Lender and may exercise the same as though it were not the Administrative Agent, and the term "Lender" or "Lenders" shall, unless otherwise expressly indicated or unless the context otherwise requires, include the Person serving as the Administrative Agent hereunder in its individual capacity. Such Person and its Affiliates may accept deposits from, lend money to, own securities of, act as the financial advisor or in any other advisory capacity for and generally engage in any kind of business with the Company or any Subsidiary or other Affiliate thereof as if such Person were not the Administrative Agent hereunder and without any duty to account therefor to the Lenders.

SECTION 1.03. Exculpatory Provisions.

(a) The Administrative Agent shall not have any duties or obligations except those expressly set forth herein and in the other Loan Documents, and its duties hereunder and thereunder shall be administrative in nature. Without limiting the generality of the foregoing, the Administrative Agent:

(i) shall not be subject to any fiduciary or other implied duties, regardless of whether a Default or Event of Default has occurred and is continuing;

(ii) shall not have any duty to take any discretionary action or exercise any discretionary powers, except discretionary rights and powers expressly contemplated hereby or by the other Loan Documents that the Administrative Agent is required to exercise as directed in writing by the Required Lenders (or such other number or percentage of the Lenders as shall be expressly provided for herein or in the other Loan Documents), provided that the Administrative Agent shall not be required to take any action that, in its opinion or the opinion of its counsel, may expose the Administrative

Agent to liability or that is contrary to any Loan Document or Applicable Law, including for the avoidance of doubt any action that may be in violation of the automatic stay under any Debtor Relief Law or that may effect a forfeiture, modification or termination of property of a Defaulting Lender in violation of any Debtor Relief Law; and

(iii) shall not, except as expressly set forth herein and in the other Loan Documents, have any duty to disclose, and shall not be liable for the failure to disclose, any information relating to the Company or any of its Subsidiaries or Affiliates that is communicated to or obtained by the Person serving as the Administrative Agent or any of its Affiliates in any capacity.

(b) The Administrative Agent shall not be liable for any action taken or not taken by it (i) with the consent or at the request of the Required Lenders (or such other number or percentage of the Lenders as shall be necessary, or as the Administrative Agent shall believe in good faith shall be necessary, under the circumstances as provided in Section 9.01 and 6.01) or (ii) in the absence of its own gross negligence or willful misconduct as determined by a court of competent jurisdiction by final nonappealable judgment. The Administrative Agent shall be deemed not to have knowledge of any Default or Event of Default unless and until notice describing such Default or Event of Default is given to the Administrative Agent in writing by any Borrower or a Lender.

(c) The Administrative Agent shall not be responsible for or have any duty to ascertain or inquire into (i) any statement, warranty or representation made in or in connection with this Agreement or any other Loan Document, (ii) the contents of any certificate, report or other document delivered hereunder or thereunder or in connection herewith or therewith, (iii) the performance or observance of any of the covenants, agreements or other terms or conditions set forth herein or therein or the occurrence of any Default or Event of Default, (iv) the validity, enforceability, effectiveness or genuineness of this Agreement, any other Loan Document or any other agreement, instrument or document or (v) the satisfaction of any condition set forth in Article III or elsewhere herein, other than to confirm receipt of items expressly required to be delivered to the Administrative Agent.

SECTION 1.04. Reliance by the Administrative Agent. The Administrative Agent shall be entitled to rely upon, and shall not incur any liability for relying upon, any notice, request, certificate, consent, statement, instrument, document or other writing (including any electronic message, Internet or intranet website posting or other distribution) believed by it to be genuine and to have been signed, sent or otherwise authenticated by the proper Person. The Administrative Agent also may rely upon any statement made to it orally or by telephone and believed by it to have been made by the proper Person, and shall not incur any liability for relying thereon. In determining compliance with any condition hereunder to the making of an Advance that by its terms must be fulfilled to the satisfaction of a Lender, the Administrative Agent may presume that such condition is satisfactory to such Lender unless the Administrative Agent shall have received notice to the contrary from such Lender prior to the making of such Advance. The Administrative Agent may consult with legal counsel (who may be counsel for any Borrower), independent accountants and other experts selected by it, and shall not be liable for any action taken or not taken by it in accordance with the advice of any such counsel, accountants or experts.

SECTION 1.05. Indemnification. The Lenders agree to indemnify the Administrative Agent (to the extent not reimbursed by the Credit Parties), ratably according to their Commitments, from and against any and all liabilities, obligations, losses, damages, penalties, actions, judgments, suits, costs, expenses or disbursements of any kind or nature whatsoever that may be imposed on, incurred by, or asserted against the Administrative Agent in

any way relating to or arising out of this Agreement or any action taken or omitted by the Administrative Agent under this Agreement, provided that no Lender shall be liable for any portion of such liabilities, obligations, losses, damages, penalties, actions, judgments, suits, costs, expenses or disbursements resulting from the Administrative Agent's gross negligence or willful misconduct. Without limitation of the foregoing, each Lender agrees to reimburse the Administrative Agent promptly upon demand for its ratable share of any out-of-pocket expenses (including counsel fees) incurred by the Administrative Agent in connection with the preparation, execution, delivery, administration, modification, amendment or enforcement (whether through negotiations, legal proceedings or otherwise) of, or legal advice in respect of rights or responsibilities under, this Agreement, to the extent that the Administrative Agent is not reimbursed for such expenses by the Credit Parties.

SECTION 1.06. Delegation of Duties. The Administrative Agent may perform any and all of its duties and exercise its rights and powers hereunder or under any other Loan Document by or through any one or more sub-agents appointed by the Administrative Agent. The Administrative Agent and any such sub-agent may perform any and all of its duties and exercise its rights and powers by or through their respective Related Parties. The exculpatory provisions of this Article shall apply to any such sub-agent and to the Related Parties of the Administrative Agent and any such sub-agent, and shall apply to their respective activities in connection with the syndication of this credit facility as well as activities as Administrative Agent. The Administrative Agent shall not be responsible for the negligence or misconduct of any sub-agents except to the extent that a court of competent jurisdiction determines in a final and nonappealable judgment that the Administrative Agent acted with gross negligence or willful misconduct in the selection of such sub agents.

SECTION 1.07. Resignation of Administrative Agent.

(a) The Administrative Agent may at any time give notice of its resignation to the Lenders and the Company. Upon receipt of any such notice of resignation, the Required Lenders shall have the right, in consultation with the Company, to appoint a successor, which shall be a bank with an office in the United States, or an Affiliate of any such bank with an office in the United States. If no such successor shall have been so appointed by the Required Lenders and shall have accepted such appointment within 30 days after the retiring Administrative Agent gives notice of its resignation (or such earlier day as shall be agreed by the Required Lenders) (the "Resignation Effective Date"), then the retiring Administrative Agent may (but shall not be obligated to), on behalf of the Lenders, appoint a successor Administrative Agent meeting the qualifications set forth above. Whether or not a successor has been appointed, such resignation shall become effective in accordance with such notice on the Resignation Effective Date.

(b) If the Person serving as Administrative Agent is a Defaulting Lender pursuant to clause (d) of the definition thereof, the Required Lenders or the Company, on behalf of the Borrowers, may, to the extent permitted by Applicable Law, by notice in writing to the Company, if being done by the Required Lenders, and such Person, remove such Person as Administrative Agent and, in consultation with the Company, appoint a successor. If no such successor shall have been so appointed by the Required Lenders or the Company, on behalf of the Borrowers, as applicable, and shall have accepted such appointment within 30 days (or such earlier day as shall be agreed by the Required Lenders) (the "Removal Effective Date"), then such removal shall nonetheless become effective in accordance with such notice on the Removal Effective Date.

(c) With effect from the Resignation Effective Date or the Removal Effective Date (as applicable), (i) the retiring or removed Administrative Agent shall be discharged from its duties and obligations hereunder and under the other Loan Documents and (ii) except for any

indemnity payments owed to the retiring or removed Administrative Agent, all payments, communications and determinations provided to be made by, to or through the Administrative Agent shall instead be made by or to each Lender directly, until such time, if any, as the Required Lenders appoint a successor Administrative Agent as provided for above. Upon the acceptance of a successor's appointment as Administrative Agent hereunder, such successor shall succeed to and become vested with all of the rights, powers, privileges and duties of the retiring or removed Administrative Agent (other than any rights to indemnity payments owed to the retiring or removed Administrative Agent), and the retiring or removed Administrative Agent shall be discharged from all of its duties and obligations hereunder or under the other Loan Documents. The fees payable by the Borrowers to a successor Administrative Agent shall be the same as those payable to its predecessor unless otherwise agreed between the Borrowers and such successor. After the retiring or removed Administrative Agent's resignation or removal hereunder and under the other Loan Documents, the provisions of this Article, Section 7.10 and Section 9.04 and shall continue in effect for the benefit of such retiring or removed Administrative Agent, its sub-agents and their respective Related Parties in respect of any actions taken or omitted to be taken by any of them while the retiring or removed Administrative Agent was acting as Administrative Agent.

SECTION 1.08. Non-Reliance on Administrative Agent and Other Lenders. Each Lender acknowledges that it has, independently and without reliance upon the Administrative Agent or any other Lender or any of their Related Parties and based on such documents and information as it has deemed appropriate, made its own credit analysis and decision to enter into this Agreement. Each Lender also acknowledges that it will, independently and without reliance upon the Administrative Agent or any other Lender or any of their Related Parties and based on such documents and information as it shall from time to time deem appropriate, continue to make its own decisions in taking or not taking action under or based upon this Agreement, any other Loan Document or any related agreement or any document furnished hereunder or thereunder.

SECTION 1.09. No Other Duties, Etc. Anything herein to the contrary notwithstanding, none of the syndication agents, documentation agents, co-agents, arrangers or bookrunners listed on the cover page hereof shall have any powers, duties or responsibilities under this Agreement or any of the other Loan Documents, except in its capacity, as applicable, as the Administrative Agent or a Lender.

SECTION 1.10. Guaranty Matters. Each of the Lenders irrevocably authorize the Administrative Agent, at its option and in its discretion, to release any Guarantor from its obligations under any Loan Documents if such Person ceases to be a Material Domestic Subsidiary as a result of a transaction permitted under the Loan Documents. Upon request by the Administrative Agent at any time, the Required Lenders will confirm in writing the Administrative Agent's authority to release any Guarantor from its obligations under this Agreement pursuant to this Section 7.10. In each case as specified in this Section 7.10, the Administrative Agent will, at the Borrowers' expense, execute and deliver to the applicable Credit Party such documents as such Credit Party may reasonably request to release such Guarantor from its obligations under this Agreement, in each case in accordance with the terms of the Loan Documents and this Section 7.10.

SECTION 1.11. Erroneous Payments.

(a) Each Lender and any other party hereto hereby severally agrees that if (i) the Administrative Agent notifies (which such notice shall be conclusive absent manifest error) such Lender or any other Person that has received funds from the Administrative Agent or any of its Affiliates, either for its own account or on behalf of a Lender (each such recipient, a "Payment

Recipient") that the Administrative Agent has determined in its sole discretion that any funds received by such Payment Recipient were erroneously transmitted to, or otherwise erroneously or mistakenly received by, such Payment Recipient (whether or not known to such Payment Recipient) or (ii) any Payment Recipient receives any payment from the Administrative Agent (or any of its Affiliates) (x) that is in a different amount than, or on a different date from, that specified in a notice of payment, prepayment or repayment sent by the Administrative Agent (or any of its Affiliates) with respect to such payment, prepayment or repayment, as applicable, (y) that was not preceded or accompanied by a notice of payment, prepayment or repayment sent by the Administrative Agent (or any of its Affiliates) with respect to such payment, prepayment or repayment, as applicable, or (z) that such Payment Recipient otherwise becomes aware was transmitted or received in error or by mistake (in whole or in part) then, in each case, an error in payment shall be presumed to have been made (any such amounts specified in clauses (i) or (ii) of this Section 7.11(a), whether received as a payment, prepayment or repayment of principal, interest, fees, distribution or otherwise; individually and collectively, an "Erroneous Payment"), then, in each case, such Payment Recipient is deemed to have knowledge of such error at the time of its receipt of such Erroneous Payment; provided that nothing in this Section shall require the Administrative Agent to provide any of the notices specified in clauses (i) or (ii) above. Each Payment Recipient agrees that it shall not assert any right or claim to any Erroneous Payment, and hereby waives any claim, counterclaim, defense or right of set-off or recoupment with respect to any demand, claim or counterclaim by the Administrative Agent for the return of any Erroneous Payments, including without limitation waiver of any defense based on "discharge for value" or any similar doctrine.

(b) Without limiting the immediately preceding clause (a), each Payment Recipient agrees that, in the case of clause (a)(ii) above, it shall promptly notify the Administrative Agent in writing of such occurrence.

(c) In the case of either clause (a)(i) or (a)(ii) above, such Erroneous Payment shall at all times remain the property of the Administrative Agent and shall be segregated by the Payment Recipient and held in trust for the benefit of the Administrative Agent, and upon demand from the Administrative Agent such Payment Recipient shall (or, shall cause any Person who received any portion of an Erroneous Payment on its behalf to), promptly, but in all events no later than one Business Day thereafter, return to the Administrative Agent the amount of any such Erroneous Payment (or portion thereof) as to which such a demand was made in Same Day Funds and in the currency so received, together with interest thereon in respect of each day from and including the date such Erroneous Payment (or portion thereof) was received by such Payment Recipient to the date such amount is repaid to the Administrative Agent at the Overnight Rate.

(d) In the event that an Erroneous Payment (or portion thereof) is not recovered by the Administrative Agent for any reason, after demand therefor by the Administrative Agent in accordance with immediately preceding clause (c), from any Lender that is a Payment Recipient or an Affiliate of a Payment Recipient (such unrecovered amount as to such Lender, an "Erroneous Payment Return Deficiency"), then at the sole discretion of the Administrative Agent and upon the Administrative Agent's written notice to such Lender (i) such Lender shall be deemed to have made a cashless assignment of the full face amount of the portion of its Advances (but not its Commitments) of the relevant Class with respect to which such Erroneous Payment was made (the "Erroneous Payment Impacted Class") to the Administrative Agent or, at the option of the Administrative Agent, the Administrative Agent's applicable lending affiliate in an amount that is equal to the Erroneous Payment Return Deficiency (or such lesser amount as the Administrative Agent may specify) (such assignment of the Advances (but not Commitments) of the Erroneous Payment Impacted Class, the "Erroneous Payment Deficiency Assignment") plus any accrued and unpaid interest on such assigned amount, without further consent or approval of any party hereto and without any payment by the Administrative Agent or

its applicable lending affiliate as the assignee of such Erroneous Payment Deficiency Assignment. The parties hereto acknowledge and agree that (1) any assignment contemplated in this clause (d) shall be made without any requirement for any payment or other consideration paid by the applicable assignee or received by the assignor, (2) the provisions of this clause (d) shall govern in the event of any conflict with the terms and conditions of Section 9.07 and (3) the Administrative Agent may reflect such assignments in the Register without further consent or action by any other Person.

(e) Each party hereto hereby agrees that (x) in the event an Erroneous Payment (or portion thereof) is not recovered from any Payment Recipient that has received such Erroneous Payment (or portion thereof) for any reason, the Administrative Agent (1) shall be subrogated to all the rights of such Payment Recipient with respect to such amount and (2) is authorized to set off, net and apply any and all amounts at any time owing to such Payment Recipient under any Loan Document, or otherwise payable or distributable by the Administrative Agent to such Payment Recipient from any source, against any amount due to the Administrative Agent under this Section 7.11 or under the indemnification provisions of this Agreement, (y) the receipt of an Erroneous Payment by a Payment Recipient shall not for the purpose of this Agreement be treated as a payment, prepayment, repayment, discharge or other satisfaction of any Borrower Obligations owed by the Borrower or any other Credit Party, except, in each case, to the extent such Erroneous Payment is, and solely with respect to the amount of such Erroneous Payment that is, comprised of funds received by the Administrative Agent from a Borrower or any other Credit Party for the purpose of making for a payment on the Borrower Obligations and (z) to the extent that an Erroneous Payment was in any way or at any time credited as payment or satisfaction of any of the Borrower Obligations, the Borrower Obligations or any part thereof that were so credited, and all rights of the Payment Recipient, as the case may be, shall be reinstated and continue in full force and effect as if such payment or satisfaction had never been received.

(f) Each party's obligations under this Section 7.11 shall survive the resignation or replacement of the Administrative Agent or any transfer of right or obligations by, or the replacement of, a Lender, the termination of the Commitments or the repayment, satisfaction or discharge of all Borrower Obligations (or any portion thereof) under any Loan Document.

(g) Nothing in this Section 7.11 will constitute a waiver or release of any claim of the Administrative Agent hereunder arising from any Payment Recipient's receipt of an Erroneous Payment.

SECTION 1.12. Certain ERISA Matters.

(a) Each Lender (x) represents and warrants, as of the date such Person became a Lender party hereto, to, and (y) covenants, from the date such Person became a Lender party hereto to the date such Person ceases being a Lender party hereto, for the benefit of, the Administrative Agent and its Affiliates, and not, for the avoidance of doubt, to or for the benefit of the Borrower or any other Credit Party, that at least one of the following is and will be true:

(i) such Lender is not using "plan assets" (within the meaning of Section 3(42) of ERISA or otherwise for purposes of Title I of ERISA or Section 4975 of the Code) of one or more Benefit Plans with respect to such Lender's entrance into, participation in, administration of and performance of the Advances or the Commitments or this Agreement;

(ii) the prohibited transaction exemption set forth in one or more PTEs, such as PTE 84-14 (a class exemption for certain transactions determined by independent qualified professional asset managers), PTE 95-60 (a class exemption for certain transactions involving insurance company general accounts), PTE 90-1 (a class

exemption for certain transactions involving insurance company pooled separate accounts), PTE 91-38 (a class exemption for certain transactions involving bank collective investment funds) or PTE 96-23 (a class exemption for certain transactions determined by in-house asset managers), is applicable so as to exempt from the prohibitions of Section 406 of ERISA and Section 4975 of the Code such Lender's entrance into, participation in, administration of and performance of the Advances or the Commitments and this Agreement;

(iii) (A) such Lender is an investment fund managed by a "Qualified Professional Asset Manager" (within the meaning of Part VI of PTE 84-14), (B) such Qualified Professional Asset Manager made the investment decision on behalf of such Lender to enter into, participate in, administer and perform the Advances, the Commitments and this Agreement, (C) the entrance into, participation in, administration of and performance of the Advances, the Commitments and this Agreement satisfies the requirements of sub-sections (b) through (g) of Part I of PTE 84-14 and (D) to the best knowledge of such Lender, the requirements of subsection (a) of Part I of PTE 84-14 are satisfied with respect to such Lender's entrance into, participation in, administration of and performance of the Advances, the Commitments and this Agreement; or

(iv) such other representation, warranty and covenant as may be agreed in writing between the Administrative Agent, in its sole discretion, and such Lender.

(b) In addition, unless either (1) sub-clause (i) in the immediately preceding clause (a) is true with respect to a Lender or (2) a Lender has provided another representation, warranty and covenant in accordance with sub-clause (iv) in the immediately preceding clause (a), such Lender further (x) represents and warrants, as of the date such Person became a Lender party hereto, and (y) covenants, from the date such Person became a Lender party hereto to the date such Person ceases being a Lender party hereto, for the benefit of, the Administrative Agent and its Affiliates, and not, for the avoidance of doubt, to or for the benefit of the Borrower or any other Credit Party, that none of the Administrative Agent and its Affiliates is a fiduciary with respect to the assets of such Lender involved in such Lender's entrance into, participation in, administration of and performance of the Advances, the Commitments and this Agreement (including in connection with the reservation or exercise of any rights by the Administrative Agent under this Agreement, any Loan Document or any documents related hereto or thereto).

ARTICLE VIII

GUARANTY

SECTION 1.01. The Guaranty. In order to induce the Lenders to enter into this Agreement and to extend credit hereunder and in recognition of the direct benefits to be received by the Guarantors from the Advances hereunder, each of the Guarantors and the Company hereby agrees with the Administrative Agent, the Lenders as follows: (a) each Guarantor hereby unconditionally and irrevocably jointly and severally guarantees as primary obligor and not merely as surety the full and prompt payment when due, whether upon maturity, by acceleration or otherwise, of any and all of the Borrower Obligations hereunder and under the other Loan Documents and (b) the Company hereby unconditionally and irrevocably jointly and severally guarantees as primary obligor and not merely as surety the full and prompt payment when due, whether upon maturity, by acceleration or otherwise, of any and all of the Foreign Borrower Obligations hereunder and under the other Loan Documents.

If any or all of the indebtedness becomes due and payable hereunder, each Guarantor unconditionally promises to pay such indebtedness to the Administrative Agent, the Lenders, or their respective order, on demand, together with any and all reasonable expenses which may be

incurred by the Administrative Agent or the Lenders in collecting any of the Borrower Obligations. The Guaranty set forth in this Article VIII is a guaranty of payment when due and not of collection. The word "indebtedness" is used in this Article VIII in its most comprehensive sense and includes any and all advances, debts, obligations and liabilities of the Borrowers, including specifically all Borrower Obligations, arising in connection with this Agreement or the other Loan Documents, in each case, heretofore, now, or hereafter made, incurred or created, whether voluntarily or involuntarily, absolute or contingent, liquidated or unliquidated, determined or undetermined, whether or not such indebtedness is from time to time reduced, or extinguished and thereafter increased or incurred, whether any Borrower may be liable individually or jointly with others, whether or not recovery upon such indebtedness may be or hereafter become barred by any statute of limitations, and whether or not such indebtedness may be or hereafter becomes otherwise unenforceable.

Notwithstanding any provision to the contrary contained herein or in any other of the Loan Documents, to the extent the obligations of a Guarantor shall be adjudicated to be invalid or unenforceable for any reason (including, without limitation, because of any applicable state or federal law relating to fraudulent conveyances or transfers) then the obligations of each such Guarantor hereunder shall be limited to the maximum amount that is permissible under Applicable Law (whether federal or state and including, without limitation, the Bankruptcy Code).

SECTION 1.02. Bankruptcy. Additionally: (a) each of the Guarantors unconditionally and irrevocably guarantees jointly and severally the payment of any and all Borrower Obligations of any Borrower to the Lenders whether or not due or payable by any Borrower upon the occurrence of any bankruptcy, reorganization, arrangement, moratorium or other proceeding or procedure under any Debtor Relief Law and unconditionally promises to pay such Borrower Obligations to the Administrative Agent for the account of the Lenders, or order, on demand, in lawful money of the United States, and (b) the Company unconditionally and irrevocably guarantees jointly and severally the payment of any and all Foreign Borrower Obligations of any Foreign Borrower to the Lenders whether or not due or payable by any Foreign Borrower upon the occurrence of any bankruptcy, reorganization, arrangement, moratorium or other proceeding or procedure under any Debtor Relief Law and unconditionally promises to pay such Foreign Borrower Obligations to the Administrative Agent for the account of the Lenders, or order, on demand, in lawful money of the United States. Each of the Guarantors further agrees that to the extent that any Borrower or a Guarantor shall make a payment or a transfer of an interest in any property to the Administrative Agent or any Lender, which payment or transfer or any part thereof is subsequently invalidated, declared to be fraudulent or preferential, or otherwise is avoided, and/or required to be repaid to any Borrower or a Guarantor, the estate of any Borrower or a Guarantor, a trustee, receiver or any other party under any Debtor Relief Laws, state or federal law, common law or equitable cause, then to the extent of such avoidance or repayment, the obligation or part thereof intended to be satisfied shall be revived and continued in full force and effect as if said payment had not been made.

For the avoidance of doubt, no Foreign Borrower shall guaranty or be liable for any Borrower Obligations of the Company, any of its Domestic Subsidiaries or any other Foreign Borrower.

SECTION 1.03. Nature of Liability. The liability of each Guarantor hereunder is exclusive and independent of any security for or other guaranty of the relevant Borrower Obligations whether executed by any such Guarantor, any other guarantor or by any other party, and no Guarantor's liability hereunder shall be affected or impaired by (a) any direction as to application of payment by any Borrower or by any other party, or (b) any other continuing or other guaranty, undertaking or maximum liability of a guarantor or of any other party as to the

Borrower Obligations, or (c) any payment on or in reduction of any such other guaranty or undertaking, or (d) any dissolution, termination or increase, decrease or change in personnel by any Borrower, or (e) any payment made to the Administrative Agent or the Lenders on the applicable Borrower Obligations which the Administrative Agent or such Lenders provides to any Borrower pursuant to court order in any bankruptcy, reorganization, arrangement, moratorium or other debtor relief proceeding, and each of the Guarantors waives any right to the deferral or modification of its obligations hereunder by reason of any such proceeding.

SECTION 1.04. Independent Obligation. The obligations of each Guarantor hereunder are independent of the obligations of any other Guarantor or any applicable Borrower, and a separate action or actions may be brought and prosecuted against each Guarantor whether or not action is brought against any other Guarantor or any applicable Borrower and whether or not any other Guarantor or any other Borrower is joined in any such action or actions.

SECTION 1.05. Authorization. Each of the Guarantors authorizes the Administrative Agent, each Lender without notice or demand (except as shall be required by applicable statute and cannot be waived), and without affecting or impairing its liability hereunder, from time to time to (a) renew, compromise, extend, increase, accelerate or otherwise change the time for payment of, or otherwise change the terms of the Borrower Obligations, the Foreign Borrower Obligations or any part thereof in accordance with this Agreement, including any increase or decrease of the rate of interest thereon, (b) take and hold security from any Guarantor or any other party for the payment of this Guaranty, the Borrower Obligations or the Foreign Borrower Obligations and exchange, enforce waive and release any such security, (c) apply such security and direct the order or manner of sale thereof as the Administrative Agent and the Lenders in their discretion may determine and (d) release or substitute any one or more endorsers, Guarantors, Borrowers or other obligors.

SECTION 1.06. Reliance. It is not necessary for the Administrative Agent or the Lenders to inquire into the capacity or powers of any Borrower or the officers, directors, members, partners or agents acting or purporting to act on its behalf, and any Borrower Obligations made or created in reliance upon the professed exercise of such powers shall be guaranteed hereunder.

SECTION 1.07. Waiver.

(a) Each of the Guarantors waives any right (except as shall be required by applicable statute and cannot be waived) to require the Administrative Agent or any Lender to (i) proceed against any Borrower, any other guarantor or any other party, (ii) proceed against or exhaust any security held from any Borrower, any other guarantor or any other party, or (iii) pursue any other remedy in the Administrative Agent's or any Lender's rights whatsoever. Each of the Guarantors waives any defense based on or arising out of any defense of any Borrower, any other guarantor or any other party other than payment in full of the Borrower Obligations or the Foreign Borrower Obligations, as applicable (other than, in either case, contingent indemnification obligations for which no claim has been made or cannot be reasonably identified by an Indemnified Party based on the then-known facts and circumstances), including, without limitation, any defense based on or arising out of the disability of any Borrower, any other guarantor or any other party, or the unenforceability of the Borrower Obligations or the Foreign Borrower Obligations, as applicable, or any part thereof from any cause, or the cessation from any cause of the liability of any Borrower other than payment in full of the Borrower Obligations or the Foreign Borrower Obligations, as applicable. The Administrative Agent may, at its election, exercise any right or remedy the Administrative Agent or any Lender may have against any Borrower or any other party without affecting or impairing in any way the liability of any Guarantor hereunder except to the extent the Borrower Obligations or the Foreign Borrower

Obligations, as applicable, have been paid in full and the Commitments have been terminated. Each of the Guarantors waives any defense arising out of any such election by the Administrative Agent or any of the Lenders, even though such election operates to impair or extinguish any right of reimbursement or subrogation or other right or remedy of the Guarantors against any Borrower or any other party.

(b) Each of the Guarantors waives all presentments, demands for performance, protests and notices, including, without limitation, notices of nonperformance, notice of protest, notices of dishonor, notices of acceptance of this Guaranty, and notices of the existence, creation or incurring of new or additional Borrower Obligations or the Foreign Borrower Obligations, as applicable. Each Guarantor assumes all responsibility for being and keeping itself informed of the financial condition and assets, and of all other circumstances bearing upon the risk of nonpayment of the Borrower Obligations or the Foreign Borrower Obligations, as applicable, and the nature, scope and extent of the risks which such Guarantor assumes and incurs hereunder, and agrees that neither the Administrative Agent nor any Lender shall have any duty to advise such Guarantor of information known to it regarding such circumstances or risks.

(c) Each of the Guarantors hereby agrees it will not exercise any rights of subrogation which it may at any time otherwise have as a result of this Guaranty (whether contractual, under Section 509 of the Bankruptcy Code, or otherwise) to the claims of the Lenders against any Borrower or any other guarantor of the Borrower Obligations or the Foreign Borrower Obligations, as applicable, owing to the Lenders (collectively, the "Other Parties") and all contractual, statutory or common law rights of reimbursement, contribution or indemnity from any Other Party which it may at any time otherwise have as a result of this Guaranty until such time as the Borrower Obligations or the Foreign Borrower Obligations, as applicable, shall have been paid in full and the Commitments have been terminated. Each of the Guarantors hereby further agrees not to exercise any right to enforce any other remedy which the Administrative Agent, the Lenders now have or may hereafter have against any Other Party, any endorser or any other guarantor of all or any part of the Borrower Obligations or the Foreign Borrower Obligations, as applicable, and any benefit of, and any right to participate in, any security or collateral given to or for the benefit of the Lenders to secure payment of the Borrower Obligations or the Foreign Borrower Obligations, as applicable, until such time as the Borrower Obligations or the Foreign Borrower Obligations, as applicable (other than, in either case, contingent indemnification obligations for which no claim has been made or cannot be reasonably identified by an Indemnified Party based on the then-known facts and circumstances) shall have been paid in full and the Commitments have been terminated.

SECTION 1.08. Limitation on Enforcement. The Lenders agree that this Guaranty may be enforced only by the action of the Administrative Agent acting upon the instructions of the Required Lenders and that no Lender shall have any right individually to seek to enforce or to enforce this Guaranty, it being understood and agreed that such rights and remedies may be exercised by the Administrative Agent for the benefit of the Lenders under the terms of this Agreement. The Lenders further agree that this Guaranty may not be enforced against any director, officer, employee or stockholder of the Guarantors.

SECTION 1.09. Confirmation of Payment. The Administrative Agent and the Lenders will, upon request after payment of the Borrower Obligations which are the subject of this Guaranty and termination of the Commitments relating thereto, confirm to the Company, the Guarantors or any other Person that such indebtedness and obligations have been paid and the Commitments relating thereto terminated, subject to the provisions of Section 8.02.

ARTICLE IX

MISCELLANEOUS

SECTION 1.01. Amendments, Etc. No amendment or waiver of any provision of any Loan Documents, nor consent to any departure by the Borrowers therefrom, shall in any event be effective unless the same shall be in writing and signed by the Required Lenders, and then such waiver or consent shall be effective only in the specific instance and for the specific purpose for which given; provided, however, that (a) no amendment, waiver or consent shall, unless in writing and signed by all the Lenders, do any of the following: (i) waive any of the conditions specified in Section 3.01, (ii) change the percentage of the Commitments or of the aggregate unpaid principal amount of the Advances that shall be required for the Lenders or any of them to take any action hereunder (including the definition of "Required Lenders"), (iii) amend this Section 9.01, (iv) release (A) all of the Guarantors or (B) Guarantors comprising substantially all of the credit support for the Borrower Obligations, in any case, from the Guaranty hereunder (other than as authorized in Section 7.10), without the written consent of each Lender, (v) change any pro rata payment provisions, including as provided in Section 2.15, (vi) amend the definition of "Foreign Currency" or (vii) change any other provision of any Loan Document specifying the number or percentage of Lenders required to amend, waive or otherwise modify any rights hereunder or thereunder or make any determination or grant any consent hereunder without the written consent of each Lender; and (b) no amendment, waiver or consent shall, unless in writing and signed by each Lender directly and adversely affected thereby, do any of the following: (i) increase or extend the Commitments of such Lender, (ii) reduce the principal of, or interest on, the Advances or any fees or other amounts payable to such Lender hereunder or (iii) postpone any date fixed for any payment of principal of, or interest on, the Advances or any fees or other amounts payable to such Lender hereunder, provided further that no amendment, waiver or consent shall, unless in writing and signed by the Administrative Agent in addition to the Lenders required above to take such action, affect the rights or duties of the Administrative Agent under this Agreement or any other Loan Document. The Administrative Agent and the Borrowers may, without the consent of any Lender, enter into amendments or modifications of this Agreement or any other Loan Document as the Administrative Agent deems reasonably appropriate in order to implement (1) the terms of Section 2.20 in accordance with the terms of Section 2.20 and (2) the terms related to a new Foreign Borrower contemplated by Section 5.01(j)(ii).

SECTION 1.02. Notices, Etc. Notices Generally. Except in the case of notices and other communications expressly permitted to be given by telephone (and except as provided in paragraph (b) below), all notices and other communications provided for herein shall be in writing and shall be delivered by hand or overnight courier service, mailed by certified or registered mail or sent by facsimile as follows:

- (i) if to the Company or any other Credit Party, to it at Graham Holdings Company, 1300 North 17th Street, Suite 1700, Arlington, VA 22209, Attention of Treasurer – Daniel J. Lynch (Facsimile No. 703-345-6299; Telephone No. 703-345-6410; email: daniel.lynnch@ghco.com);
- (ii) if to the Administrative Agent, to Wells Fargo Bank, National Association, as Administrative Agent at 1525 W. W.T. Harris Blvd., 1st Floor, Charlotte, NC 28262-8522, with a copy to Wells Fargo Bank, National Association, 7475 Wisconsin Avenue, Suite 400, Bethesda, MD 20814, Attention of Barbara Angel; and
- (iii) if to a Lender, to it at its address (or facsimile number) set forth in its Administrative Questionnaire.

Notices sent by hand or overnight courier service, or mailed by certified or registered mail, shall be deemed to have been given when received; notices sent by facsimile shall be deemed to have been given when sent (except that, if not given during normal business hours for the recipient, shall be deemed to have been given at the opening of business on the next business day for the recipient). Notices delivered through electronic communications, to the extent provided in paragraph (b) below, shall be effective as provided in said paragraph (b).

(b) Electronic Communications. Notices and other communications to the Lenders hereunder may be delivered or furnished by electronic communication (including e-mail and Internet or intranet websites) pursuant to procedures approved by the Administrative Agent, provided that the foregoing shall not apply to notices to any Lender pursuant to Article II if such Lender has notified the Administrative Agent that it is incapable of receiving notices under such Article by electronic communication. The Administrative Agent or the Company, on or behalf of itself or any other Credit Party, may, in its discretion, agree to accept notices and other communications to it hereunder by electronic communications pursuant to procedures approved by it; provided that approval of such procedures may be limited to particular notices or communications.

Unless the Administrative Agent otherwise prescribes, (i) notices and other communications sent to an e-mail address shall be deemed received upon the sender's receipt of an acknowledgement from the intended recipient (such as by the "return receipt requested" function, as available, return e-mail or other written acknowledgement), and (ii) notices or communications posted to an Internet or intranet website shall be deemed received upon the deemed receipt by the intended recipient, at its e-mail address as described in the foregoing clause (i), of notification that such notice or communication is available and identifying the website address therefor; provided that, for both clauses (i) and (ii) above, if such notice, email or other communication is not sent during the normal business hours of the recipient, such notice or communication shall be deemed to have been sent at the opening of business on the next business day for the recipient.

(c) Change of Address, Etc. Any party hereto may change its address or facsimile number for notices and other communications hereunder by notice to the other parties hereto.

(d) Platform.

(i) The Borrowers agree that the Administrative Agent may, but shall not be obligated to, make the Communications (as defined below) available to the Lenders by posting the Communications on Debt Domain, Intralinks, Syndtrak or a substantially similar electronic transmission system (the "Platform").

(ii) The Platform is provided "as is" and "as available." The Agent Parties (as defined below) do not warrant the adequacy of the Platform and expressly disclaim liability for errors or omissions in the Communications. No warranty of any kind, express, implied or statutory, including, without limitation, any warranty of merchantability, fitness for a particular purpose, non-infringement of third-party rights or freedom from viruses or other code defects, is made by any Agent Party in connection with the Communications or the Platform. In no event shall the Administrative Agent or any of its Related Parties (collectively, the "Agent Parties") have any liability to Borrowers, any Lender or any other Person or entity for damages of any kind, including, without limitation, direct or indirect, special, incidental or consequential damages, losses or expenses (whether in tort, contract or otherwise) arising out of any Borrowers' or the Administrative Agent's transmission of communications through the Platform. "Communications" means, collectively, any notice, demand, communication, information, document or other material that any Borrower provides to the

Administrative Agent pursuant to any Loan Document or the transactions contemplated therein which is distributed to the Administrative Agent or any Lender by means of electronic communications pursuant to this Section, including through the Platform.

SECTION 1.03. No Waiver; Remedies. No failure on the part of any Lender or the Administrative Agent to exercise, and no delay in exercising, any right hereunder or under any other Loan Document shall operate as a waiver thereof; nor shall any single or partial exercise of any such right preclude any other or further exercise thereof or the exercise of any other right. The remedies herein provided are cumulative and not exclusive of any remedies provided by Applicable Law.

SECTION 1.04. Costs and Expenses. The Company and the Guarantors, jointly and severally, agree to pay on demand all reasonable and documented (in summary form) legal and other out-of-pocket costs and expenses of the Administrative Agent in connection with the preparation, execution, delivery, administration, modification and amendment of this Agreement and the other documents to be delivered hereunder, including, without limitation, (A) all due diligence, syndication (including printing, distribution and bank meetings), transportation and duplication expenses, and (B) the reasonable fees, charges and disbursements of counsel for the Administrative Agent (limited in the case of legal expenses, to one firm of counsel (and one local counsel in each applicable jurisdiction and any reasonably necessary specialty area counsel)) with respect thereto and with respect to advising the Administrative Agent as to its rights and responsibilities under this Agreement. The Company and the Guarantors, jointly and severally, further agree to pay on demand all reasonable and documented (in summary form) legal or other out-of-pocket costs and expenses of the Administrative Agent and the Lenders, if any (limited in the case of legal expenses, to one firm of counsel (and one local counsel in each applicable jurisdiction and any reasonably necessary specialty area counsel)), in connection with the enforcement (whether through negotiations, legal proceedings or otherwise) of this Agreement and the other documents to be delivered hereunder, including, without limitation, reasonable fees and expenses of counsel for the Administrative Agent and each Lender in connection with the enforcement of rights under this Section 9.04(a).

(b) The Company and the Guarantors, jointly and severally, agree to indemnify and hold harmless the Administrative Agent and each Lender and each of their Affiliates and their officers, directors, employees, agents and advisors (each, an “Indemnified Party”) from and against any and all claims, damages, losses, liabilities and expenses (including, without limitation, reasonable and documented (in summary form) legal and other out-of-pocket fees and expenses (limited, in the case of legal expenses, to one firm of counsel for all Indemnified Parties taken as a whole (and one local counsel in each applicable jurisdiction and any reasonably necessary specialty area counsel for all Indemnified Parties taken as a whole and, in the event of any actual conflict of interest, one additional counsel of each type to each group of similarly affected Indemnified Parties)) that may be incurred by or asserted or awarded against any Indemnified Party, in each case arising out of or in connection with or by reason of, or in connection with the preparation for a defense of, any investigation, litigation or proceeding arising out of, related to or in connection with the Advances, this Agreement, any of the transactions contemplated herein or the actual or proposed use of the proceeds of the Advances, whether or not such investigation, litigation or proceeding is brought by any Credit Party, its directors, shareholders or creditors or an Indemnified Party or any other Person or any Indemnified Party is otherwise a party thereto and whether or not the transactions contemplated hereby are consummated, except to the extent such claim, damage, loss, liability or related expense is found in a final, non-appealable judgment by a court of competent jurisdiction to have resulted from the gross negligence or willful misconduct of such Indemnified Party or any of its Related Parties or breach of a material obligation by such Indemnified Party or any of its Related Parties under this Agreement.

(c) If any payment of principal of, or Conversion of, any Eurocurrency Rate Advance or Term RFR Advance is made by any Borrower to or for the account of a Lender other than on the last day of the Interest Period for such Advance, as a result of a payment or Conversion pursuant to Section 2.08(d) or (e), 2.09, 2.10 or 2.12, acceleration of the maturity of the Advances pursuant to Section 6.01 or for any other reason, or by an Eligible Assignee to a Lender other than on the last day of an Interest Period for such Advance upon an assignment of rights and obligations under this Agreement pursuant to Section 9.07 as a result of a demand by the Company pursuant to Section 2.19, the applicable Borrower shall, upon demand by such Lender (with a copy of such demand to the Administrative Agent), pay to the Administrative Agent for the account of such Lender any amounts required to compensate such Lender for any additional losses, costs or expenses that it may reasonably incur as a result of such payment or Conversion, including, without limitation, any loss (excluding loss of anticipated profits), cost or expense incurred by reason of the liquidation or reemployment of deposits or other funds acquired by any Lender to fund or maintain such Advance.

(d) Without prejudice to the survival of any other agreement of any Credit Party hereunder, the agreements and obligations of any Credit Party contained in Sections 2.11, 2.14 and 9.04 shall survive the payment in full of principal, interest and all other amounts payable hereunder.

SECTION 1.05. Right of Set-off. Upon (i) the occurrence and during the continuance of any Event of Default and (ii) the making of the request or the granting of the consent specified by Section 6.01 to authorize the Administrative Agent to declare the Advances due and payable pursuant to the provisions of Section 6.01, each Lender and each of its Affiliates is hereby authorized at any time and from time to time, to the fullest extent permitted by Applicable Law, to set off and apply any and all deposits (general or special, time or demand, provisional or final) at any time held and other indebtedness at any time owing by such Lender or such Affiliate to or for the credit or the account of any Credit Party against any and all of the obligations of any Credit Party now or hereafter existing under this Agreement held by such Lender, whether or not such Lender shall have made any demand under this Agreement and although such obligations may be unmatured, and regardless of the place of payment, booking branch or currency of either obligation. If the obligations subject to set off are in different currencies, the Lender or its Affiliate may convert either obligation at a market rate of exchange in its usual course of business for the purpose of the set-off. Each Lender agrees promptly to notify the applicable Credit Party, after any such set-off and application, provided that the failure to give such notice shall not affect the validity of such set-off and application. The rights of each Lender and its Affiliates under this Section are in addition to other rights and remedies (including, without limitation, other rights of set-off) that such Lender and its Affiliates may have.

SECTION 1.06. Binding Effect. This Agreement shall become effective upon satisfaction of the conditions precedent set forth in Section 3.01 and thereafter shall be binding upon and inure to the benefit of each Credit Party, the Administrative Agent and each Lender and their respective successors and assigns, except that no Credit Party shall have the right to assign its rights hereunder or any interest herein without the prior written consent of each Lender (and any other attempted assignment or transfer by any Credit Party shall be null and void).

SECTION 1.07. Assignments and Participations. Successors and Assigns Generally. No Lender may assign or otherwise transfer any of its rights or obligations hereunder except (i) to an Eligible Assignee in accordance with the provisions of paragraph (b) of this Section, (ii) by way of participation in accordance with the provisions of paragraph (d) of this Section, or (iii) by way of pledge or assignment of a security interest subject to the restrictions of paragraph (f) of this Section (and any other attempted assignment or transfer by any Lender shall

be null and void). Nothing in this Agreement, expressed or implied, shall be construed to confer upon any Person (other than the parties hereto, their respective successors and assigns permitted hereby, Participants to the extent provided in paragraph (d) of this Section and, to the extent expressly contemplated hereby, the Related Parties of each of the Administrative Agent and the Lenders) any legal or equitable right, remedy or claim under or by reason of this Agreement.

(b) Assignments by Lenders. Any Lender may at any time and, if demanded by the Company in accordance with Section 2.17 or 2.19 at a time when no Default has occurred and is continuing upon at least five Business Days' notice to such Lender and the Administrative Agent, will assign to one or more Eligible Assignees all or a portion of its rights and obligations under this Agreement (including all or a portion of its Commitment and the Advances at the time owing to it, in each case under any Tranche); provided that any such assignment shall be subject to the following conditions:

(i) Minimum Amounts.

(A) in the case of an assignment of the entire remaining amount of the assigning Lender's Commitment and/or the Advances at the time owing to it, in each case under any Tranche, no minimum amount need be assigned; and

(B) in any case not described in paragraph (b)(i)(A) of this Section, the aggregate amount of the Commitment (which for this purpose includes Advances outstanding thereunder) or, if the applicable Commitment is not then in effect, the principal outstanding balance of the Advances of the assigning Lender subject to each such assignment (determined as of the date the Assignment and Assumption with respect to such assignment is delivered to the Administrative Agent or, if "Trade Date" is specified in the Assignment and Assumption, as of the Trade Date) shall not be less than \$5,000,000, unless each of the Administrative Agent and, so long as no Event of Default pursuant to clause (a) or (e) of Section 6.01 has occurred and is continuing, the Company, on behalf of the Borrowers, otherwise consents (each such consent not to be unreasonably withheld or delayed).

(ii) Proportionate Amounts. Each partial assignment shall be made as an assignment of a proportionate part of all the assigning Lender's rights and obligations under this Agreement with respect to the Advance or the Commitment of any Tranche assigned, except that this clause (ii) shall not prohibit any Lender from assigning all or a proportionate part of all of its rights and obligations among separate Facilities or Tranches on a non-pro rata basis.

(iii) Required Consents. No consent shall be required for any assignment except to the extent required by paragraph (b)(i)(B) of this Section and, in addition:

(A) the consent of the Company, on behalf of the Borrowers (such consent not to be unreasonably withheld or delayed) shall be required unless (x) an Event of Default pursuant to clause (a) or (e) of Section 6.01 has occurred and is continuing at the time of such assignment, or (y) such assignment is to a Lender or an Affiliate of a Lender organized in the United States; provided that the Company, on behalf of the Borrowers shall be deemed to have consented to any such assignment unless it shall object thereto by written notice to the Administrative Agent within ten Business Days after having received notice thereof; and

(B) the consent of the Administrative Agent (such consent not to be unreasonably withheld or delayed) shall be required for assignments if such assignment is to a Person that is not a Lender with a Commitment or an Affiliate of such Lender;

(iv) Assignment and Assumption. The parties to each assignment shall execute and deliver to the Administrative Agent an Assignment and Assumption, together with a processing and recordation fee of \$3,500; provided that the Administrative Agent may, in its sole discretion, elect to waive such processing and recordation fee in the case of any assignment; provided, further, that no such processing and recordation fee shall be paid in connection with an assignment made pursuant to Section 2.19. The assignee, if it is not a Lender, shall deliver to the Administrative Agent an Administrative Questionnaire.

(v) No Assignment to Certain Persons. No such assignment shall be made to (A) any person that is not an Eligible Assignee or (B) any Defaulting Lender or any of its Subsidiaries or any Person who, upon becoming a Lender hereunder, would constitute any of the foregoing Persons described in this clause (B).

Subject to acceptance and recording thereof by the Administrative Agent pursuant to paragraph (c) of this Section, from and after the effective date specified in each Assignment and Assumption, the assignee thereunder shall be a party to this Agreement and, to the extent of the interest assigned by such Assignment and Assumption, have the rights and obligations of a Lender under this Agreement, and the assigning Lender thereunder shall, to the extent of the interest assigned by such Assignment and Assumption, be released from its obligations under this Agreement (and, in the case of an Assignment and Assumption covering all of the assigning Lender's rights and obligations under this Agreement, such Lender shall cease to be a party hereto) but shall continue to be entitled to the benefits of Sections 2.11 and 9.04, and subject to the obligations of Section 7.05, in each case, with respect to facts and circumstances occurring prior to the effective date of such assignment; provided, that except to the extent otherwise expressly agreed by the affected parties, no assignment by a Defaulting Lender will constitute a waiver or release of any claim of any party hereunder arising from that Lender's having been a Defaulting Lender. Any assignment or transfer by a Lender of rights or obligations under this Agreement that does not comply with this paragraph shall be treated for purposes of this Agreement as a sale by such Lender of a participation in such rights and obligations in accordance with paragraph (d) of this Section.

(c) Register. The Administrative Agent, acting solely for this purpose as an agent of the Borrowers, shall maintain at one of its offices in the United States a copy of each Assumption Agreement and each Assignment and Assumption delivered to it and a register for the recordation of the names and addresses of the Lenders, and the Commitments (including the relevant Tranche) of, and principal amounts of the Advances owing to, each Lender pursuant to the terms hereof from time to time (the "Register"). The entries in the Register shall be conclusive absent demonstrable error, and the Borrowers, the Administrative Agent and the Lenders shall treat each Person whose name is recorded in the Register pursuant to the terms hereof as a Lender hereunder for all purposes of this Agreement. The Register shall be available for inspection by the Company, on behalf of the Borrowers, and any Lender, at any reasonable time and from time to time upon reasonable prior notice.

(d) Participations. Any Lender may at any time, without the consent of, or notice to, any Credit Party or the Administrative Agent, sell participations to any Person (other than a natural Person or any Credit Party or any of their Affiliates or Subsidiaries) (each, a "Participant") in all or a portion of such Lender's rights and/or obligations under this Agreement (including all or a portion of its Commitment and/or the Advances owing to it); provided that (i)

such Lender's obligations under this Agreement shall remain unchanged, (ii) such Lender shall remain solely responsible to the other parties hereto for the performance of such obligations, and (iii) the Borrowers, the Administrative Agent and Lenders shall continue to deal solely and directly with such Lender in connection with such Lender's rights and obligations under this Agreement. For the avoidance of doubt, each Lender shall be responsible for the indemnity under Section 7.05 with respect to any payments made by such Lender to its Participant(s). Each Lender that sells a participation shall, acting solely for this purpose as an agent of the Borrowers, maintain a register on which it enters the name and address of each Participant and the principal amounts (and stated interest) of each Participant's interest in the Multicurrency Tranche Commitments, US Tranche Commitments or other obligations under this Agreement (the "Participant Register"), provided that no Lender shall have any obligation to disclose all or any portion of the Participant Register (including the identity of any Participant or any information relating to a Participant's interest in any commitments, loans or other obligations under any Loan Document) to any Person except to the extent that such disclosure is necessary to establish that such commitment, loan or other obligation is in registered form under Section 5f.103-1(c) of the United States Treasury Regulations. The entries in the Participant Register shall be conclusive absent demonstrable error, and such Lender shall treat each Person whose name is recorded in the Participant Register as the owner of such participation for all purposes of this Agreement notwithstanding any notice to the contrary.

(e) Any agreement or instrument pursuant to which a Lender sells such a participation shall provide that such Lender shall retain the sole right to enforce this Agreement and to approve any amendment, modification or waiver of any provision of this Agreement; provided that such agreement or instrument may provide that such Lender will not, without the consent of the Participant, agree to any amendment, modification or waiver described in clauses (b)(ii) and (iii) of the first proviso of Section 9.01 that directly and adversely affects such Participant. The Borrowers agree that, subject to paragraph (f) below, each Participant shall be entitled to the benefits of Sections 2.11 and 2.14 to the same extent as if it were a Lender and had acquired its interest by assignment pursuant to paragraph (b) of this Section; provided that such Participant agrees to be subject to the provisions of Section 2.19 as if it were an assignee under paragraph (b) of this Section. To the extent permitted by Applicable Law, each Participant also shall be entitled to the benefits of Section 9.05 as though it were a Lender; provided that such Participant agrees to be subject to Section 2.15 as though it were a Lender.

(f) Limitations upon Participant Rights. A Participant shall not be entitled to receive any greater payment under Sections 2.11 and 2.14 than the applicable Lender would have been entitled to receive with respect to the participation sold to such Participant, unless the sale of the participation to such Participant is made with the Company's, on behalf of the Borrowers, prior written consent; provided that the Participant shall be subject to the provisions of Sections 2.15 and 2.19. A Participant that would be a Foreign Lender if it were a Lender shall not be entitled to the benefits of Section 2.14 unless the Company is notified of the participation sold to such Participant and such Participant agrees, for the benefit of each Borrower, to comply with Section 2.14(e) as though it were a Lender.

(g) Certain Pledges. Any Lender may at any time pledge or assign a security interest in all or any portion of its rights under this Agreement to secure obligations of such Lender, including any pledge or assignment to secure obligations to a Federal Reserve Bank; provided that no such pledge or assignment shall release such Lender from any of its obligations hereunder or substitute any such pledgee or assignee for such Lender as a party hereto.

SECTION 1.08. Confidentiality. Neither the Administrative Agent nor any Lender shall disclose any Confidential Information to any other Person without the consent of the Company, on behalf of the Borrowers, except that Confidential Information may be disclosed (a) to the Administrative Agent's or such Lender's Affiliates and to its Related Parties (it being

understood that the Persons to whom such disclosure is made will be informed of the confidential nature of such Confidential Information and instructed to keep such Confidential Information confidential); (b) to the extent required or requested by any regulatory authority purporting to have jurisdiction over such Person or its Related Parties (including any self-regulatory authority, such as the National Association of Insurance Commissioners); (c) to the extent required by Applicable Laws or regulations or by any subpoena or similar legal process; (d) to any other party hereto; (e) in connection with the exercise of any remedies hereunder or under any other Loan Document or any action or proceeding relating to this Agreement or any other Loan Document or the enforcement of rights hereunder or thereunder; (f) subject to an agreement containing provisions substantially the same as those of this Section, to (i) any assignee of or Participant in, or any prospective assignee of or Participant in, any of its rights and obligations under this Agreement, or (ii) any actual or prospective party (or its Related Parties) to any swap, derivative or other transaction under which payments are to be made by reference to any Borrower and its obligations, this Agreement or payments hereunder; or (g) on a confidential basis to (i) any rating agency in connection with rating any Borrower or its Subsidiaries or this credit facility or (ii) the CUSIP Service Bureau or any similar agency in connection with the issuance and monitoring of CUSIP numbers with respect to the facilities.

SECTION 1.09. Governing Law. This Agreement and the other Loan Documents and any claims, controversy, dispute or cause of action (whether in contract or tort or otherwise) based upon, arising out of or relating to this Agreement or any other Loan Document and the transactions contemplated hereby and thereby shall be governed by, and construed in accordance with, the law of the State of New York.

SECTION 1.10. Execution in Counterparts. This Agreement may be executed in any number of counterparts and by different parties hereto in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement. Delivery of an executed counterpart of a signature page to this Agreement by telecopier or electronic transmission shall be effective as delivery of a manually executed counterpart of this Agreement.

SECTION 1.11. Jurisdiction, Etc. Each Credit Party irrevocably and unconditionally agrees that it will not commence any action, litigation or proceeding of any kind or description, whether in law or equity, whether in contract or in tort or otherwise, against the Administrative Agent, any Lender or any Related Party of the foregoing in any way relating to this Agreement or any other Loan Document or the transactions relating hereto or thereto, in any forum other than the courts of the State of New York sitting in New York County, and of the United States District Court of the Southern District of New York, and any appellate court from any thereof, and each of the parties hereto irrevocably and unconditionally submits to the jurisdiction of such courts and agrees that all claims in respect of any such action, litigation or proceeding may be heard and determined in such New York State court or, to the fullest extent permitted by Applicable Law, in such federal court. Each of the parties hereto agrees that a final judgment in any such action, litigation or proceeding shall be conclusive and may be enforced in other jurisdictions by suit on the judgment or in any other manner provided by Applicable Law. Nothing in this Agreement or in any other Loan Document shall affect any right that the Administrative Agent or any Lender may otherwise have to bring any action or proceeding relating to this Agreement or any other Loan Document against any Credit Party or its properties in the courts of any jurisdiction.

(b) Each of the parties hereto irrevocably and unconditionally waives, to the fullest extent it may legally and effectively do so, any objection that it may now or hereafter have to the laying of venue of any suit, action or proceeding arising out of or relating to this Agreement or any other Loan Document in any New York State or federal court. Each of the parties hereto

hereby irrevocably waives, to the fullest extent permitted by Applicable Law, the defense of an inconvenient forum to the maintenance of such action or proceeding in any such court.

(c) Each party hereto irrevocably consents to service of process in the manner provided for notices in Section 9.02. Nothing in this Agreement will affect the right of any party hereto to serve process in any other manner permitted by Applicable Law.

SECTION 1.12. Patriot Act Notice. Each Lender that is subject to the Patriot Act (as hereinafter defined) and the Administrative Agent (for itself and not on behalf of any Lender) hereby notifies the Borrowers that, pursuant to the requirements of the USA Patriot Act (Title III of Pub. L. 107-56 (signed into law October 26, 2001)) (the “Patriot Act”), it is required to obtain, verify and record information that identifies each Credit Party, which information includes the name and address of each Credit Party and other information that will allow such Lender or the Administrative Agent, as applicable, to identify each Credit Party in accordance with the Patriot Act.

SECTION 1.13. Waiver of Jury Trial. Each of the Credit Parties, the Administrative Agent and the Lenders hereby irrevocably waives all right to trial by jury in any action, proceeding or counterclaim (whether based on contract, tort or otherwise) arising out of or relating to this Agreement or any other Loan Document or the actions of the Administrative Agent or any Lender in the negotiation, administration, performance or enforcement thereof.

SECTION 1.14. Acknowledgement and Consent to Bail-In of Affected Financial Institutions. Notwithstanding anything to the contrary in any Loan Document or in any other agreement, arrangement or understanding among any such parties, each party hereto acknowledges that any liability of any Affected Financial Institution arising under any Loan Document, to the extent such liability is unsecured, may be subject to the Write-Down and Conversion Powers of the applicable Resolution Authority and agrees and consents to, and acknowledges and agrees to be bound by:

- (a) the application of any Write-Down and Conversion Powers by the applicable Resolution Authority to any such liabilities arising hereunder which may be payable to it by any party hereto that is an Affected Financial Institution; and
- (b) the effects of any Bail-In Action on any such liability, including, if applicable:
 - (i) a reduction in full or in part or cancellation of any such liability;
 - (ii) a conversion of all, or a portion of, such liability into shares or other instruments of ownership in such Affected Financial Institution, its parent undertaking, or a bridge institution that may be issued to it or otherwise conferred on it, and that such shares or other instruments of ownership will be accepted by it in lieu of any rights with respect to any such liability under this Agreement or any other Loan Document; or
 - (iii) the variation of the terms of such liability in connection with the exercise of the Write-Down and Conversion Powers of the applicable Resolution Authority.

SECTION 1.15. Amendment and Restatement. This Agreement is intended to amend and restate the Existing Credit Agreement, without novation, with the Commitments set forth herein and the Lenders party hereto. The applicable Credit Parties hereby ratify, affirm and acknowledge all of their obligations in respect of the Existing Credit Agreement and the related documents and agreements delivered by them thereunder, as amended by this Agreement. The Lenders hereby agree that the commitments with respect to the Existing Credit Agreement are

amended and restated to be the Commitments of this Agreement and hereby waive, on the Effective Date only, any pro rata payment provisions of this Agreement to the extent any such payments are required to repay any obligations owing to any lender under the Existing Credit Agreement that will not continue as a Lender under this Agreement.

SECTION 1.16. Judgment Currency. If, for the purposes of obtaining judgment in any court, it is necessary to convert a sum due hereunder or under any other Loan Document in one currency into another currency, the rate of exchange used shall be the Spot Rate. The obligation of any Credit Party in respect of any such sum due from it to the Administrative Agent or any Lender hereunder or under the other Loan Documents shall, notwithstanding any judgment in a currency (the "Judgment Currency") other than that in which such sum is denominated in accordance with the applicable provisions of this Agreement (the "Agreement Currency"), be discharged only to the extent that on the Business Day following receipt by the Administrative Agent or such Lender of any sum adjudged to be so due in the Judgment Currency, the Administrative Agent or such Lender may in accordance with normal banking procedures purchase the Agreement Currency with the Judgment Currency. If the amount of the Agreement Currency so purchased is less than the sum originally due to the Administrative Agent or such Lender in the Agreement Currency, each Credit Party agrees, as a separate obligation and notwithstanding any such judgment, to indemnify the Administrative Agent or such Lender or the Person to whom such obligation was owing against such loss. If the amount of the Agreement Currency so purchased is greater than the sum originally due to the Administrative Agent or such Lender in such currency, the Administrative Agent or such Lender agrees to return the amount of any excess to the Company, for itself or another Borrower (or to any other Person who may be entitled thereto under Applicable Law).

SECTION 1.17. Appointment of the Company. Each Foreign Borrower hereby irrevocably appoints the Company as its agent to act as specified in the Loan Documents, and the Company hereby accepts such appointment. Each Foreign Borrower hereby irrevocably authorizes and directs the Company to take on its behalf all actions required of such Person under the Loan Documents, and to exercise all powers and to perform all duties of such Person thereunder, including, (a) to submit and receive all certificates, notices, elections and communications and (b) to receive and disburse the proceeds of all Advances. Any of the foregoing taken or received by the Company on behalf of any Foreign Borrower will be deemed for all purposes to have been taken or received by such Foreign Borrower and will be binding on such Person to the same extent as if directly taken or received by such Foreign Borrower.

SECTION 1.18. Lender-Specific Provisions. Bank of America Merrill Lynch International is a designated Affiliate of Bank of America, N.A. for the purpose of lending to certain Foreign Borrowers. Any reference to "Bank of America Merrill Lynch International Limited" is a reference to its successor in title Bank of America Merrill Lynch International Designated Activity Company (including, without limitation, its branches) pursuant to and with effect from the merger between Bank of America Merrill Lynch International Limited and Bank of America Merrill Lynch International Designated Activity Company that takes effect in accordance with Chapter II, Title II of Directive (EU) 2017/1132 (which repeals and codifies the Cross-Border Mergers Directive (2005/56/EC)), as implemented in the United Kingdom and Ireland. Notwithstanding anything to the contrary in any Loan Document, a transfer of rights and obligations from Bank of America Merrill Lynch International Limited to Bank of America Merrill Lynch International Designated Activity Company pursuant to such merger shall be permitted.

SECTION 1.19. Australian Code of Banking Practice. The Australian Bankers' Association Code of Banking Practice does not apply to the Loan Documents and the transactions under them.

SECTION 1.20. Acknowledgement Regarding Any Supported QFCs. To the extent that the Loan Documents provide support, through a guarantee or otherwise, for hedge agreements or any other agreement or instrument that is a QFC (such support, “QFC Credit Support” and, each such QFC, a “Supported QFC”), the parties acknowledge and agree as follows with respect to the resolution power of the FDIC under the Federal Deposit Insurance Act and Title II of the Dodd-Frank Wall Street Reform and Consumer Protection Act (together with the regulations promulgated thereunder, the “U.S. Special Resolution Regimes”) in respect of such Supported QFC and QFC Credit Support (with the provisions below applicable notwithstanding that the Loan Documents and any Supported QFC may in fact be stated to be governed by the laws of the State of New York and/or of the United States or any other state of the United States):

(a) In the event a Covered Entity that is party to a Supported QFC (each, a “Covered Party”) becomes subject to a proceeding under a U.S. Special Resolution Regime, the transfer of such Supported QFC and the benefit of such QFC Credit Support (and any interest and obligation in or under such Supported QFC and such QFC Credit Support, and any rights in property securing such Supported QFC or such QFC Credit Support) from such Covered Party will be effective to the same extent as the transfer would be effective under the U.S. Special Resolution Regime if the Supported QFC and such QFC Credit Support (and any such interest, obligation and rights in property) were governed by the laws of the United States or a state of the United States. In the event a Covered Party or a BHC Act Affiliate of a Covered Party becomes subject to a proceeding under a U.S. Special Resolution Regime, Default Rights under the Loan Documents that might otherwise apply to such Supported QFC or any QFC Credit Support that may be exercised against such Covered Party are permitted to be exercised to no greater extent than such Default Rights could be exercised under the U.S. Special Resolution Regime if the Supported QFC and the Loan Documents were governed by the laws of the United States or a state of the United States. Without limitation of the foregoing, it is understood and agreed that rights and remedies of the parties with respect to a Defaulting Lender shall in no event affect the rights of any Covered Party with respect to a Supported QFC or any QFC Credit Support.

(b) As used in this Section 9.20, the following terms have the following meanings:

“BHC Act Affiliate” of a party means an “affiliate” (as such term is defined under, and interpreted in accordance with, 12 U.S.C. 1841(k)) of such party.

“Covered Entity” means any of the following:

- (i) a “covered entity” as that term is defined in, and interpreted in accordance with, 12 C.F.R. § 252.82(b);
- (ii) a “covered bank” as that term is defined in, and interpreted in accordance with, 12 C.F.R. § 47.3(b); or
- (iii) a “covered FSI” as that term is defined in, and interpreted in accordance with, 12 C.F.R. § 382.2(b).

“Default Right” has the meaning assigned to that term in, and shall be interpreted in accordance with, 12 C.F.R. §§ 252.81, 47.2 or 382.1, as applicable.

“QFC” has the meaning assigned to the term “qualified financial contract” in, and shall be interpreted in accordance with, 12 U.S.C. 5390(c)(8)(D).

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their respective officers thereunto duly authorized, as of the date first above written.

COMPANY: GRAHAM HOLDINGS COMPANY

By: _____
Name: Wallace R. Cooney
Title: Chief Financial Officer

GUARANTORS: GRAHAM MEDIA GROUP, INC.

By: _____
Name:
Title:

GRAHAM MEDIA GROUP, FLORIDA, INC.

By: _____
Name:
Title:

GRAHAM MEDIA GROUP, HOUSTON, INC.

By: _____
Name:
Title:

GRAHAM MEDIA GROUP, MICHIGAN, INC.

By: _____
Name:
Title:

GRAHAM MEDIA GROUP, ORLANDO, INC.

By: __
Name:
Title:

GRAHAM MEDIA GROUP, SAN ANTONIO, INC.

By: __
Name:
Title:

GROUP DEKKO INC.

By: __
Name:
Title:

GROUP DEKKO HOLDINGS INC.

By: __
Name:
Title:

FRTW HOLDINGS LLC

By: __
Name:
Title:

KAPLAN, INC.

By: __
Name:
Title:

IOWA COLLEGE ACQUISITION, LLC

By: __
Name:
Title:

DF INSTITUTE, LLC

By: __
Name:
Title:

KAPLAN INTERNATIONAL NORTH AMERICA, LLC

By: __
Name:
Title:

WELLS FARGO BANK, NATIONAL ASSOCIATION
as Administrative Agent

By _____
Name:
Title:

Initial Lenders

JPMORGAN CHASE BANK, N.A.

By ____
Name:
Title:

WELLS FARGO BANK, NATIONAL ASSOCIATION

By ____
Name:
Title:

HSBC BANK USA, NATIONAL ASSOCIATION

By ____
Name:
Title:

BANK OF AMERICA, N.A.

By ____
Name:
Title:

PNC BANK, NATIONAL ASSOCIATION

By ____
Name:
Title:

THE BANK OF NEW YORK MELLON

By ____
Name:
Title:

PNC BANK CANADA BRANCH,
as PNC Bank, National Association's Applicable Lending Office for Multicurrency
Tranche Advances made to any Foreign Borrower organized under the laws of
Canada

By _____
Name:
Title:

Name of Subsidiary	Jurisdiction of Incorporation or Organization	% of Voting Equity Owned by Parent
199 Sunbeam Realty, LLC	Delaware	100 %
CGRH, LLC	Delaware	100 %
Clyde's of Broadland, LLC	Virginia	100 %
Clyde's of Chevy Chase, LLC	Maryland	100 %
Clyde's Tower Oaks Lodge, LLC	Maryland	100 %
Clyde's of Columbia, LLC	Maryland	100 %
Clyde's of Gallery Place, LLC	District of Columbia	100 %
Clyde's of Georgetown, LLC	District of Columbia	100 %
Clyde's at Mark Center, LLC	Virginia	100 %
Clyde's of Reston, LLC	Virginia	100 %
Clyde's Management, LLC	District of Columbia	100 %
The City Limit, LLC	District of Columbia	100 %
The Walrus Company, LLC	District of Columbia	100 %
Cybervista LLC	Delaware	100 %
Forney Corporation	Delaware	100 %
Forney Shanghai Trading Company	China (PR)	100 %
Forney Maquila, LLC	Delaware	100 %
FMMX S. de R.L. de C.V.	Mexico	100 % (a)
FSM S. de R.L. de C.V.	Mexico	100 % (b)
FRTW Holdings LLC	Delaware	100 %
Hoover Wood Products Holdings, Inc.	Delaware	100 %
Hoover Treated Wood Products, Inc.	Delaware	100 %
FBHCO, Inc.	Delaware	93.4 %
Framebridge, Inc.	Delaware	93.4 %
Framebridge Retail Stores LLC	Delaware	93.4 %
Graham Automotive LLC	Delaware	100 %
Graham-Ourisman Automotive LLC	Delaware	90 %
EDR Protected Cell of medTRANS	Nevada	90 %
Endor, LLC	Maryland	90 %
Lando, LLC	Virginia	90 %
C3PO, LLC	Maryland	90 %
Boba Fett LLC	Maryland	90 %
Hoth LLC	Maryland	90 %
Palpatine, LLC	Maryland	90 %
Corellia, LLC	Maryland	90 %
Vader, LLC	Virginia	90 %
Mon Mothma, LLC	Virginia	90 %
Graham Digital Holding Company LLC	Delaware	100 %
City Cast LLC	Delaware	100 %
Decile LLC	Delaware	100 %
The Slate Group, LLC	Delaware	100 %
Social Code LLC dba Code 3	Delaware	100 %
Social Code Holdings, LLC	Delaware	100 %
JKR Ventures, LLC	Ohio	100 %
Marketplace Strategy, LLC	Ohio	100 %
Marketplace Direct, LLC	Ohio	100 %
Pinna LLC	Delaware	100 %
Graham Healthcare Group, Inc.	Delaware	100 %
Celtic Healthcare, Inc.	Nevada	100 %
Residential Home Health of Carlisle, LLC	Pennsylvania	100 %
Celtic Living Assistance Services, LLC	Pennsylvania	100 %
Celtic Homecare, Inc.	Pennsylvania	100 %
Graham Health Services, LLC	Pennsylvania	100 %

Name of Subsidiary	Jurisdiction of Incorporation or Organization	% of Voting Equity Owned by Parent
Celtic Rehabilitation Services, Inc.	Pennsylvania	100 %
Residential Home Health of NC PA, LLC	Pennsylvania	100 %
Residential Healthcare of NE PA, LLC	Pennsylvania	100 %
Residential Hospice of Carlisle, LLC	Pennsylvania	100 %
Celtic Hospice & Palliative Care Services of NC PA, LLC	Pennsylvania	100 %
Residential Hospice of Southern Illinois LLC	Pennsylvania	100 %
Celtic Healthcare of Maryland, Inc.	Maryland	100 %
Home Health Utilization Management, LLC	Pennsylvania	100 %
Residential Home Health of Southern Illinois, LLC	Pennsylvania	100 %
Celtic Healthcare Technology Solutions, LLC	Pennsylvania	100 %
InTelicare Services FL1, LLC	Florida	100 %
Home Care of Tampa Bay, LLC	Florida	100 %
InTelicare Services FL2, LLC	Florida	100 %
Compassionate Home Care, Inc.	Florida	100 %
AllPro Home Health, LLC	Florida	100 %
Graham Healthcare Capital, LLC	Delaware	100 %
GHC One, LLC	Delaware	100 %
GHC One Clarus, LLC	Delaware	95 %
Clarus Care, LLC	Delaware	100 %
GHC One CSI, LLC	Delaware	95 %
CSI Pharmacy Holding, LLC	Delaware	75 %
GHC One Weiss, LLC	Delaware	95 %
Weiss Co. Invest. LLC	Delaware	50 %
Weiss MSO, LLC	Delaware	47 %
Weiss NJ MSO, LLC	Delaware	47 %
Residential Healthcare Group, Inc.	Delaware	100 %
Hometown Home Health Care Inc.	Michigan	100 %
RHH Holdings Co	Michigan	100 %
Residential Home Health, LLC	Michigan	100 %
Residential Hospice, LLC	Michigan	100 %
RHM-KCINO, LLC	Michigan	100 %
RHH Ventures Illinois, LLC	Illinois	100 %
Graham Media Group, Inc.	Delaware	100 %
Graham Media Group, Florida, Inc.	Florida	100 %
Graham Media Group, Houston, Inc.	Delaware	100 %
Graham Media Group, Michigan, Inc.	Delaware	100 %
Graham Media Group, Orlando, Inc.	Delaware	100 %
Graham Media Group, San Antonio, Inc.	Delaware	100 %
Graham Media Group, Virginia, LLC	Virginia	100 %
Social News Desk, Inc.	Florida	100 %
Group Dekko Holdings Inc.	Delaware	100 %
Group Dekko Inc.	Indiana	100 %
Premier Manufacturing Group, Inc. (d/b/a Electric-Cable Assemblies)	Connecticut	100 %
Dekko Global Enterprise LLC	Indiana	100 %
Grupo Dekko Mexico S.A, de C.V.	Mexico	100 % (c)
Furnlite Inc.	North Carolina	100 %
Joyce/Dayton Corporation	Ohio	100 %
EDrive Actuators, Inc.	Connecticut	100 %
Lowly Worm Holdings, Inc.	Delaware	100 %
UNI-LIFT LLC	Delaware	100 %
Kaplan, Inc.	Delaware	99.44 %
Dev Bootcamp, Inc.	California	100 %

Name of Subsidiary	Jurisdiction of Incorporation or Organization	% of Voting Equity Owned by Parent
Graham Holdings Retired Employee Payroll Master, LLC	Delaware	100 %
Kaplan International, LLC	Delaware	100 %
Kaplan (Canada) Ltd.	Ontario	100 %
U.S. CPA ExamPrep, Inc.	Ontario	100 %
Kaplan Educational Services de Mexico, S. de R.L. de C.V.	Mexico	100 % (d)
Education HR Services Mexico, S. de R.L. de C.V.	Mexico	100 % (d)
Kaplan Higher Education, LLC	Delaware	100 %
Texas Educational Ventures, LP	Delaware	100 %
Kaplan North America, LLC	Delaware	100 %
DF Institute, LLC	Illinois	100 %
SmartPros, LLC	Delaware	100 %
The College for Financial Planning Institutes Corp.	Arizona	100 %
The College for Financial Planning, Inc.	Arizona	100 %
KV EdTech Partners LLC	Delaware	100 %
Kaplan Mexico Holdings, LLC	Delaware	100 %
Kaplan (India) Private Limited	India	100 % (e)
Kaplan (PR) Inc.	Puerto Rico	100 %
Kaplan Medical Prep, LLC	New York	100 %
Kaplan K12 Learning Services, LLC	Delaware	100 %
Kaplan Test Prep International, LLC	California	100 %
Kaplan International North America, LLC	California	100 %
Kaplan International Pathways North America, LLC	Delaware	100 %
Kaplan International English (Thailand), Co. Ltd.	Thailand	99.99 % (f)
Hands On Consulting Limited	Hong Kong	100 %
Hands On Education Consultants Co., Ltd.	Thailand	100 % (g)
Kaplan U.K. Limited	England & Wales	100 %
Aspect Education Limited	England & Wales	100 %
Education Tower Ltd.	Hong Kong	100 %
BEO KK	Japan	100 %
Hands On BEO Company Ltd.	Vietnam	100 %
Aspect (Beijing) Education Information Consulting Co. Ltd.	China (PR)	100 %
Pacific Language Institute, Inc.	British Columbia	100 %
Aspect Education UK Limited	England & Wales	100 %
Aspect Educational Services Limited	England & Wales	100 %
Aspect International Language Academies Limited	England & Wales	100 %
Anglo World Travel SA	Switzerland	100 %
Anglo-World Group Ltd.	England & Wales	100 %
Anglo-World Education Ltd.	England & Wales	100 %
Aspect International Language Schools Limited	Ireland	100 %
Aspect Language Schools Limitada	Colombia	100 %
Aspect Language Schools Limited	Switzerland	100 %
Aspect S.A.R.L. France	France	100 %
Aspect Education (Hong Kong) Limited	Hong Kong	100 %
Kaplan International Operations Mexico, S.A. de C.V.	Mexico	100 % (h)
KI HR Services Mexico, S.A. de C.V.	Mexico	100 % (i)
West of England Language Services Limited	England & Wales	100 %
The Salisbury School of English Limited	England & Wales	100 %
Kaplan International Investments Limited	England & Wales	100 %
BridgeU Limited	England & Wales	100 %
Bridge-U Hong Kong Limited	Hong Kong	100 %
Kaplan Test Prep and Admissions Limited	England & Wales	100 %
Manhattan GMAT Limited	England & Wales	100 %
Heverald Groupe S.A.	Switzerland	100 %

Name of Subsidiary	Jurisdiction of Incorporation or Organization	% of Voting Equity Owned by Parent
Alpadia Freiburg	Germany	100 %
Alpadia S.A.	France	100 %
Alpadia Sarl	France	100 %
Alpadia Berlin GmbH	Germany	100 %
ESL Education S.A.S.	France	100 %
ESL Education Belgique sprl	Belgium	100 %
ESL Education Italia S.R.L.	Italy	100 %
Alpadia UK Limited	England & Wales	100 %
ESL Education GmbH ÖSTERREICH	Austria	100 %
ESL Education S.A.	Switzerland	100 %
Alpadia Education SL	Spain	100 %
ESL Educación España S.L	Spain	100 %
ESL Education GmbH Deutschland	Germany	100 %
ESL Services IT S.R.L	Italy	100 %
ESL Services SP S.L	Spain	100 %
Kaplan International UK Holdings Limited	England & Wales	100 %
Kaplan International English (Australia) Pty Limited	Australia	100 %
Kaplan International (Brisbane) Pty Limited	Australia	100 %
Kaplan International NZ Limited	New Zealand	100 %
Kaplan International (Perth) Pty Limited	Australia	100 %
Aspect ILA Sydney Pty Limited	Australia	100 %
Kaplan Australia Holdings Pty Limited	Australia	100 %
Kaplan Australia Pty Limited	Australia	100 %
Red Marker Pty Ltd	Australia	100 %
Kaplan International (Melbourne & Adelaide) Pty Limited	Australia	100 %
Kaplan Higher Education Party Limited	Australia	100 %
Kaplan Business School Pty Limited	Australia	100 %
Tribeca Learning Pty Limited	Australia	100 %
Kaplan Education Pty Limited	Australia	100 %
Kaplan Holdings Limited	Hong Kong	100 %
Kaplan Higher Education (HK) Limited	Hong Kong	100 %
Kaplan Citic Education Co. Limited	China (PR)	49 %
Kaplan Financial (HK) Limited	Hong Kong	100 %
Kaplan Language Training (HK) Limited	Hong Kong	100 %
Kaplan Institute Limited	Hong Kong	100 %
Shanghai Kaplan Education Investment Consulting Co. Ltd.	China (PR)	100 %
Shanghai Kaibo Management Consultation Co., Ltd	China (PR)	100 %
The Financial Training (Shanghai) Co., Ltd	China (PR)	100 %
Shanghai Kai Bo Education Investment Management Co. Limited	China (PR)	100 % (j)
Kaplan Singapore Pte. Ltd.	Singapore	100 %
Kaplan Learning Institute Pte. Ltd	Singapore	100 %
Kaplan Higher Education Institute Pte. Ltd	Singapore	100 %
Kaplan Higher Education Academy Pte. Ltd	Singapore	100 %
Kaplan Myanmar Company Limited	Myanmar	99 %
Accountancy & Business College (Ireland) Limited	Ireland	100 %
DBS Services SDN.BHD	Malaysia	100 %
Kaplan Ireland Education Limited	Ireland	100 %
Kaplan International Holdings Limited	England & Wales	100 %
Eagle Education and Training Limited	England & Wales	100 %
Kaplan Dubai Limited	England & Wales	100 %
Kaplan Professional ME Limited	England & Wales	100 %
Osborne Books Limited	England & Wales	100 %

Name of Subsidiary	Jurisdiction of Incorporation or Organization	% of Voting Equity Owned by Parent
Kaplan Financial Limited	England & Wales	100 %
Kaplan SQE Limited	England & Wales	100 %
Kaplan Training Limited	England & Wales	100 %
Kaplan Consulting & Training Limited	England & Wales	100 %
Hawksmere Limited	England & Wales	100 %
Holborn College Limited	England & Wales	100 %
Kaplan Saudi Arabia Holding Limited	England & Wales	100 %
Kaplan Saudi Arabia Limited	Saudi Arabia	100 %
Kaplan International Colleges U.K. Limited	England & Wales	100 %
Kaplan Essex Limited	England & Wales	100 %
Kaplan Qatar Limited	England & Wales	100 %
Kaplan Colleges Private Limited	India	100 %
Kaplan International Colleges (Private) Limited	Pakistan	100 %
Kaplan Glasgow Limited	England & Wales	100 %
Kaplan International Colleges Limited	Nigeria	100 %
Kaplan Liverpool Limited	England & Wales	100 %
Kaplan Nottingham Limited	England & Wales	100 %
Kaplan NT Limited	England & Wales	100 %
Kaplan US Limited	England & Wales	100 %
Kaplan International College London Limited	England & Wales	100 %
Kaplan Brighton Limited	England & Wales	100 %
Kaplan UWE Limited	England & Wales	100 %
Kaplan Bournemouth Limited	England & Wales	100 %
Kaplan Estates Limited	England & Wales	100 %
Kaplan York Limited	England & Wales	100 %
Kaplan Partner Services HK Limited	Hong Kong	100 % (k)
Kaplan Law School Limited	England & Wales	100 %
Kaplan Open Learning Limited	England & Wales	100 %
Kaplan Open Learning (Essex) Limited	England & Wales	100 %
Kaplan Open Learning (Liverpool) Limited	England & Wales	100 %
Kaplan Publishing Limited	England & Wales	100 %
Kaplan Professional Awards Limited	England & Wales	100 %
Mander Portman Woodward Limited	England & Wales	100 %
Kensington Student Services Limited	England & Wales	100 %
Justin Craig Education Limited	England & Wales	100 %
Pacifica Merger Sub, Inc.	Delaware	100 %
Post NW, LLC	New York	100 %

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- (a) Forney Corporation owns .03% and Forney Maquila, LLC owns 99.97% of FMMX S. de R.L. de C.V. The combined ownership of Forney Maquila, LLC and Forney Corporation in FMMX S. de R.L. de C.V. is 100%.
- (b) Forney Maquila, LLC owns .03% and FMMX s. de R.L. de C.V. owns 99.97% of FSM S. de R.L. de C.V. The combined ownership of Forney Maquila, LLC and FMMX S. de R.L. de C.V. in FSM S. de R.L. de C.V. is 100%.
- (c) Dekko Global Enterprise, LLC owns 99.998% of Type A Common Stock of Grupo Dekko Mexico, S.A. de C.V. and Group Dekko Holdings, Inc. owns .002% of Type A Common Stock of Grupo Dekko Mexico, S.A. de C.V. Dekko Global Enterprise, LLC owns 100% of Type B Common Stock of Grupo Dekko Mexico, S.A. de C.V. The combined ownership by Dekko Global Enterprise, LLC and Group Dekko Holdings, Inc. in Grupo Dekko Mexico, S.A. de C.V. is 100%.
- (d) Kaplan Mexico Holdings, LLC also owns 1% stock in Kaplan Educational Services de Mexico, S. de R.L. de C.V. and Education HR Services Mexico, S. de R.L. de C.V. The combined ownership of Kaplan, Inc. and Kaplan Mexico

Holdings, LLC in Kaplan Educational Services de Mexico, S. de R.L. de C.V. and Education HR Services Mexico, S.de R.L. de C.V. is 100%.

- (e) Kaplan Colleges Private Limited also owns 4.35% stock in Kaplan (India) Private Limited. The combined ownership of Kaplan Mexico Holdings, LLC and Kaplan Colleges Private Limited in Kaplan (India) Private Limited is 100%.
- (f) Kaplan International North America, LLC and Kaplan Test Prep International, LLC each own 1 share or .00334% of Kaplan International English (Thailand), Co. Ltd. The combined ownership of Kaplan International North America, LLC, Kaplan Test Prep International, Inc. and Kaplan, LLC in Kaplan International English (Thailand), Co. Ltd. is 99.99%.
- (g) Hands On Consulting Limited owns 49% stock and Kaplan International, Inc. and Kaplan Test Prep International, Inc. each own 0.002% stock of Hands On Education Consultants Co., Ltd. The combined ownership of Kaplan, Inc., Hands On Consulting Limited, Kaplan International, LLC and Kaplan Test Prep International, LLC in Hands On Education Consultants Co., Ltd. is 100%.
- (h) Aspect Educational Services Limited also owns .002% equity in Kaplan International Operations Mexico, S.A. de C.V. and KI HR Services Mexico, S.A. de C.V. The combined ownership of Aspect Education Limited and Aspect Educational Services Limited in Kaplan International Operations Mexico, S.A. de C.V. and KI HR Services Mexico, S.A. de C.V. is 100%.
- (i) Kaplan International Holdings Limited also owns 1 share or .00001% of Kaplan International Colleges Limited. The combined ownership of Kaplan International Holdings Limited and Kaplan International Colleges U.K. Limited in Kaplan International Colleges Limited is 100%.
- (j) Shanghai Kaplan Education Investment Consulting Co. Ltd also owns 52.5% stock in Shanghai Kai Bo Education Investment Management Co. Limited. The combined ownership of The Financial Training (Shanghai) Co., Ltd and Shanghai Kaplan Education Investment Consulting Co. Ltd in Shanghai Kai Bo Education Investment Management Co. Limited is 100%.
- (k) Kaplan NT Limited, Kaplan Liverpool Limited, Kaplan Glasgow Limited, Kaplan Nottingham Limited, The University of York International Pathway College LLP (which is 45% owned by Kaplan York Limited), Kaplan International College London Limited, Kaplan UWE Limited, Kaplan Bournemouth Limited, Kaplan Brighton Limited and Kaplan Essex Limited each owns 10% of Kaplan Partner Services HK Limited. The combined ownership of Kaplan NT Limited, Kaplan Liverpool Limited, Kaplan Glasgow Limited, Kaplan Nottingham Limited, The University of York International Pathway College LLP, Kaplan International College London Limited, Kaplan UWE Limited, Kaplan Bournemouth Limited and Kaplan Brighton Limited and Kaplan Essex Limited is 100%.

As permitted by Item 601(b)(21) of Regulation S-K, the foregoing list omits certain subsidiaries which, if considered in the aggregate as a single subsidiary, would not constitute a "significant subsidiary" as that term is defined in Rule 1-02(w) of Regulation S-X.

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statements on Form S-8 (Nos. 333-189559 and 033-54295) and Form S-3 (No. 333-71350) of Graham Holdings Company of our report dated February 25, 2022 relating to the financial statements and the effectiveness of internal control over financial reporting, which appears in this Form 10-K.

/s/ PricewaterhouseCoopers LLP

Washington, District of Columbia
February 25, 2022

Power of Attorney
Reports Under the Securities Exchange Act of 1934

February 15, 2022

KNOW ALL MEN BY THESE PRESENTS that each of the undersigned directors and officers of Graham Holdings Company, a Delaware corporation (hereinafter called the "Company"), hereby constitutes and appoints TIMOTHY J. O'SHAUGHNESSY, WALLACE R. COONEY and NICOLE MADDREY, and each of them, his or her true and lawful attorneys-in-fact and agents with full power to act without the others and with full power of substitution and resubstitution, for him or her and in his or her name, place and stead, in any and all capacities, to sign my name to an Annual Report on Form 10-K of the Company for the fiscal year ended December 31, 2021, and any and all reports required to be filed by the Company pursuant to the Securities Exchange Act of 1934, as amended, and any and all amendments thereto and other documents in connection therewith, and to file, or cause to be filed, the same with all exhibits thereto (including this power of attorney), with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises as fully and to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or their or his or her substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

/s/ Donald E. Graham

Donald E. Graham, Chairman of the Board and Director

/s/ Timothy J. O'Shaughnessy

Timothy J. O'Shaughnessy, President and Chief Executive Officer
(Principal Executive Officer) and Director

/s/ Wallace R. Cooney

Wallace R. Cooney, Chief Financial Officer (Principal Financial Officer)

/s/ Marcel A. Snyman

Marcel A. Snyman, Chief Accounting Officer (Principal Accounting Officer)

/s/ Tony Allen

Tony Allen, Director

/s/ Christopher C. Davis

Christopher C. Davis, Director

/s/ Thomas S. Gayner

Thomas S. Gayner, Director

/s/ Anne M. Mulcahy

Anne M. Mulcahy, Director

/s/ G. Richard Wagoner

G. Richard Wagoner, Jr., Director

/s/ Katharine Weymouth

Katharine Weymouth, Director

**RULE 13a-14(a)/15d-14(a) CERTIFICATION OF THE CHIEF EXECUTIVE OFFICER
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Timothy J. O'Shaughnessy, Chief Executive Officer (principal executive officer) of Graham Holdings Company (the "Registrant"), certify that:

1. I have reviewed this annual report on Form 10-K of the Registrant;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the Registrant as of, and for, the periods presented in this report;
4. The Registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the Registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the Registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the Registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the Registrant's internal control over financial reporting that occurred during the Registrant's most recent fiscal quarter (the Registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the Registrant's internal control over financial reporting; and
5. The Registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the Registrant's auditors and the audit committee of Registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the Registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the Registrant's internal control over financial reporting.

/s/ Timothy J. O'Shaughnessy

Timothy J. O'Shaughnessy
Chief Executive Officer
February 25, 2022

**RULE 13a-14(a)/15d-14(a) CERTIFICATION OF THE CHIEF FINANCIAL OFFICER
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Wallace R. Cooney, Chief Financial Officer (principal financial officer) of Graham Holdings Company (the "Registrant"), certify that:

1. I have reviewed this annual report on Form 10-K of the Registrant;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the Registrant as of, and for, the periods presented in this report;
4. The Registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the Registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the Registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the Registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the Registrant's internal control over financial reporting that occurred during the Registrant's most recent fiscal quarter (the Registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the Registrant's internal control over financial reporting; and
5. The Registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the Registrant's auditors and the audit committee of Registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the Registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the Registrant's internal control over financial reporting.

/s/ Wallace R. Cooney

Wallace R. Cooney
Chief Financial Officer
February 25, 2022

SECTION 1350 CERTIFICATION OF THE CHIEF EXECUTIVE OFFICER AND THE CHIEF FINANCIAL
OFFICER
AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of Graham Holdings Company (the "Company") on Form 10-K for the fiscal year ended December 31, 2021 (the "Report"), Timothy J. O'Shaughnessy, Chief Executive Officer (principal executive officer) of the Company and Wallace R. Cooney, Chief Financial Officer (principal financial officer) of the Company, each hereby certifies, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ Timothy J. O'Shaughnessy

Timothy J. O'Shaughnessy
Chief Executive Officer
February 25, 2022

/s/ Wallace R. Cooney

Wallace R. Cooney
Chief Financial Officer
February 25, 2022