



**Houston Baptist University – Arts Building  
Houston, Texas**

This new, single-story, steel-framed, Arts Building has a raised gabled roof along the center of the structure. Glass windows make up the two raised sides of this central section and allow natural light into the building at all times of the day. The building also has open air areas for workshops, pottery and ceramic studios to create an atmosphere that promotes an open and natural environment even though some of these areas may be in conditioned space.

Owner: Houston Baptist University  
Houston, TX  
Project Engineer: Mr. H. (Anu) Mahendra, P.E.  
Completion Date: 2008  
Cost: \$4.0 million

**Houston Community College-Southeast Campus – Angela V. Morales Building\*  
Houston, Texas**

This is a 3-story steel framed building of approximately 61,100 SF which was an addition to the Houston Community College Southeast Campus.

Owner: Houston Community College System  
Houston, TX  
Project Engineer: Mr. H. (Anu) Mahendra, P.E.  
Completion Date: 1999  
Cost: \$5.8 million



**Lone Star College-Cy-Fair Campus\*\*  
Houston, Texas**

Six 1 and 2-story buildings framed with structural steel that house all of the activities for a new campus, such as a library, classrooms, laboratories and workshops, and a theater building with music rooms, rehearsal rooms, etc. requiring sound and vibration isolation. The laboratory and analysis areas also had stringent requirements for noise and vibration control.

Owner: Lone Star College  
Houston, TX  
Project Engineer: Mr. H. (Anu) Mahendra, P.E.  
Completion Date: 2003  
Cost: \$63.0 million



### **Lone Star College-Montgomery Campus Parking Garage Conroe, Texas**

This 1000-car, four-level parking garage for the Lone Star College System adequately addresses all the needs required of a multi-level garage for students and faculty. The economics were addressed by using prefabricated precast elements for the super-structure which yielded significant savings over any cast-in-place system. Aesthetic and security concerns are very well addressed by providing attractive canopies at the Ground Level which also serves as a covered walkway along its length. The glass enclosed stair and elevator lobby not only adds to the aesthetic beauty of the garage, but provides visual access and a safe and secure environment for all personnel within the lobby.

Owner: Lone Star College  
Conroe, Texas  
Project Engineer: Mr. H. (Anu) Mahendra, P.E.  
Completion Date: September 2010  
Cost: \$9.7 million



### **Texas A&M University – National Center for Therapeutics Manufacturing Facility College Station, Texas**

This new Therapeutic Manufacturing facility is a prototype of such facilities to be located throughout the country. The facility has an approximate area of 195,000 square feet with a two-story steel framed academic building at one end which houses classrooms and teaching facilities. This is separated by a solid concrete wall with the research labs and testing facilities on one side followed by a large open area for manufacturing. The research labs have modular containers placed alongside each other called “cocoons.” These cocoons and the manufacturing areas are enclosed by a pre-engineered metal building framed building with spans in the range of 170 feet. In addition the entire facility is supported on a structural ground floor slab with non-load bearing tilt-up concrete panels as exterior cladding.

Owner: Texas A&M University System  
College Station, TX  
Project Engineer: Mr. H. (Anu) Mahendra, P.E.  
Completion Date: August 2011  
Cost: \$23.0 million



**Texas Southern University – Gray Hall Pharmacy Building –  
Animal Research Laboratory Addition\*  
Houston, Texas**

This 2-story concrete framed building required special floor framing for areas used for washing and cleaning, special loads in areas that house animals and stringent controls for floor vibration in the laboratory testing areas.

Owner: Texas Southern University-Architectural, Engineering &  
Construction Services  
Houston, TX  
Project Engineer: Mr. H. (Anu) Mahendra, P.E.  
Completion Date: 2002  
Cost: \$6.8 million



**Texas Southern University – Jesse H. Jones School of Business\*  
Houston, Texas**

Designed as a showpiece of the Texas Southern University campus, this three-story, 78,000 square foot building features 23 classrooms as well as complete facilities for the departments of business administration, accounting research and development, business student services, and faculty and staff. The classrooms are state-of-the-art teaching arenas. Large tiered classrooms and auditoriums make up the first level with the remaining classroom functions on the second level and administrative functions on the third level. The Jesse H. Jones School of Business projects a business ambiance and enhances the school's relationship to both the campus and the business community.

Owner: Texas Southern University-Architectural, Engineering &  
Construction Services  
Houston, TX  
Project Engineer: Mr. H. (Anu) Mahendra, P.E.  
Completion Date: 1998  
Cost: \$14.0 million

**Texas Southern University – Technology Building  
Houston, Texas**

This new building that will house the Technology Center consists of two separate wings. One is a two-story portion which joins the four-story portion with a common lobby and entry. Intended to serve as “making a statement on campus,” the building has a curved face with a step back at the fourth floor level. The structural system proposed is a structural steel system with composite steel beams and a concrete floor slab placed over metal deck. Such a system was priced against other systems, such as cast-in-place concrete and a prestressed concrete system using post-tensioned beams and a concrete slab, and found to be much more economical than the latter two concrete systems noted above. It also was lighter in weight and utilized shallower depth steel beams over longer spans. This project is presently in the Construction Document Phase and should be under construction in early 2010.

Owner: Texas Southern University  
Houston, TX  
Project Engineers: Mr. Vimal H. Parikh, P.E.  
Mr. H. (Anu) Mahendra, P.E.  
Completion Date: December 2011  
Cost: \$21.0 million

**University of Houston-Cullen College of Engineering Building  
Addition\*  
Houston, Texas**

This is a 4-story addition to the existing engineering building. After evaluating different structural systems, even though the building was to be clad with precast panels, the steel framed floors were checked for vibration control in the laboratory areas and provided easy attachments for an overhead crane and pulley system that was required at the testing laboratories area.

Owner: University of Houston System  
Facilities Planning and Construction  
Houston, TX  
Project Engineer: Mr. H. (Anu) Mahendra, P.E.  
Completion Date: 1983  
Cost: \$7.0 million





## **University of Houston-Downtown Academic and Student Services Building\*** **Houston, Texas**

This 4-story concrete framed building addition to the Main Building of the Downtown Campus is adjacent to the existing railroad tracks, with a deck that spans across the tracks and a 400-seat auditorium on top of it. By using a cast-in-place concrete frame to support the auditorium columns and prefabricated concrete in-fill members, a month was reduced from the construction schedule. Also, by proposing the use of a deep cast-in-place concrete pile system in lieu of the recommended foundation mat a savings of \$350,000.00 was realized in the cost of foundations alone. These changes contributed significantly to the cost savings and brought the project within budget.

Owner: University of Houston System  
Facilities Planning and Construction  
Houston, TX  
Vergel Gay, 713-743-8025

Project Engineer: Mr. H. (Anu) Mahendra, P.E.

Completion Date: 1996

Cost: \$16.0 million

## **University of Houston-Downtown New Classroom Building\*\*** **Houston, Texas**

This is a 4-story concrete framed building located in downtown Houston on a site of an existing hotel that had been demolished and turned into a parking lot. Due to the unique shape of the building and the sloped site, a moment frame system was proposed with pan-joist construction for the floors thereby allowing the utilities to be provided above the central corridor.

Owner: University of Houston System  
Facilities Planning and Construction  
Houston, TX  
Vergel Gay, 713-743-8025

Project Engineer: Mr. H. (Anu) Mahendra, P.E.

Completion Date: 2004

Cost: \$13.0 million

\* CBM Engineers, Inc. Engineer-of-Record. Experience of principals while at CBM.

\*\* Carter & Burgess Engineer-of-Record. Experience of principals while at C&B.

