



## FIRM PROFILE

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Meza Engineering, Inc. was founded in 2000, with a fundamental belief that every successful project begins with a professional relationship built on honesty, integrity, and responsiveness. Located in Dallas, Texas our firm offers Mechanical, Electrical, and Plumbing Engineering design services to K-12 Educational Facilities, Universities, Government, Medical, Hospitality, Industrial, Corporate Office and Interior Finish-out. We provide building design services from master planning through construction administration, as well as provide Peer Reviews and System Commissioning.

Our talented staff of engineers and designers at Meza Engineering, Inc. all share in our commitment to providing each client with direct access and personal attention. Our goal is to form long-term relationships with each client, by implementing appropriate design solutions that are responsive to time and budget. Meza Engineering, Inc. supports this effort through controlled growth, quality assurance, process improvement, and by providing the team with state-of-the-art equipment.

At Meza Engineering, Inc., we have a proven record of timely, quality service and are building a reputation on the quality of our work and the dedication of our people



## PROFESSIONAL ENGINEERING SERVICES

### Mechanical Engineering

Heating, Ventilating and Air Conditioning (HVAC) design  
Specialty HVAC design for computer facilities and other high tolerance applications  
Energy analysis and evaluation of existing systems  
Energy management/building automation system design



### Electrical Engineering

Building Power Distribution  
Interior and Exterior Lighting Systems  
Critical Power systems (UPS, generator) design



### Plumbing

Building Plumbing System Design  
Storm Drainage Systems  
Natural Gas Systems





## EXPERIENCE

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### **EDUCATIONAL K-12**

Sunset High School  
Lee McShan Elementary School  
Obadiah Knight Elementary School  
Runyon Elementary School

### **EDUCATIONAL HIGHER EDUCATION:**

Paramount – Allied Center for Healthcare at El Centro College  
West Texas A&M Mary Moody Nothen  
Le Croy Center – Dallas County Community College  
Bill J. Priest Institute – Dallas County Community College  
Texas Women's University – Dallas Campus  
El Centro West Campus

### **OFFICE**

TXDOT – Traffic Management Center  
Merit Energy  
Gallagher Bassett  
First Independent National Bank

### **MUNICIPAL**

Roanoke Police Department  
South Central Police Station  
Collin County Juvenile Prevention  
Collin County Courthouse Annex A  
McLennan County Courthouse  
Prosper Fire Station  
Corinth Fire Station

### **MEDICAL**

Frisco Medical Center  
Sammons Mammography  
CT Scan Replacement – Methodist Medical Center  
Sones Medical Clinic

### **COMMISSIONING**

DFW Terminal D and Hotel  
DFW Thermal Rehabilitation  
DFW Air Rescue Fire Fighting Station  
DFW Energy Plaza Boiler #10

## VICTOR H. MEZA, P.E., LEED AP



### EDUCATION

Bachelor of Science - Mechanical Engineering  
Texas A&M University

### REGISTRATIONS

Professional Engineer – Texas #81105

### ORGANIZATIONS

ASHRAE – American Society of Heating Refrigerating and Air Conditioning Engineers  
NFPA - National Fire Protection Association  
ASPE – American Society of Plumbing Engineers  
USGBC – U.S. Green Building Council

Victor has over twenty years of experience in the consulting engineering industry and project management. His experience ranges from large new construction projects to lease space improvements, including projects such as University, K-12 Educational Buildings, Office Buildings, Medical Buildings, and Retail Buildings.

Mr. Meza's daily involvement encompasses all aspects of the MEP design and production as well as construction administration. His responsibilities include proposal preparation, contract negotiations, scheduling, construction documents, and construction administration. Victor's specialty is in mechanical engineering and will focus on design requirements and implementing design objectives as well as final quality control.

## PROJECT EXPERIENCE

### **Samaritan House, Fort Worth, Texas:**

Designed HVAC and Plumbing for a 60 room, 20,000 square foot assisted living building for AIDS patients. Each patient room was provided with separate restrooms and shower.

### **Denton Surgicare, Denton, Texas:**

32,000 square foot surgical center. Responsible for the HVAC design and project manager. Facility included 4 operating rooms, recovery area, and office/administration area. HVAC system in operating rooms included HEPA filtration and smoke evacuation system.

### **Decatur Community Hospital, Decatur Texas:**

15,000 square foot patient room addition. Designed new variable volume air handling system with air-cooled chiller and hot water heating. All MEP systems had to comply with Texas Department of Health Standards.

### **Baylor, Dallas, Jonsson Building:**

12,000 square foot patient room renovation, Renovated existing patient room induction units and converted existing air handling system to variable volume system with hot water reheat. All MEP systems had to comply with Texas Department of Health.

### **Healthcare Associates of Frisco, Frisco, Texas:**

5,900 square foot diagnostic imaging facility that included an MRI unit, X-Ray and CT scanning system. The HVAC system was designed with single zone DX units.

### **Baylor Richardson MOB 2, Richardson Texas:**

20,000 square foot medical office building finish out for 8 tenants. The shell building HVAC system consisted of chilled water VAV system with hot water fan powered boxes.

### **Harry Bass School of Nursing:**

Engineer of Record for a 50,000 square foot expansion and renovation of the existing nursing school. Project was designed to allow construction in many phases.

## JOHN M. DEEMS

John has over twenty-six years of experience in the consulting engineering industry and project management. His experience ranges from large new construction projects to lease space improvements, including projects such as Hospitals, Ambulatory Surgical Centers, Medical Office Buildings, University, K-12 Educational Buildings, Office Buildings, and Retail Buildings.

Mr. Deems daily involvement encompasses all aspects of the MEP design and production as well as construction administration. His responsibilities include proposal preparation, contract negotiations, scheduling, construction documents, and construction administration. John's specialty is in electrical design and project management and will focus on design requirements and implementing design objectives as well as final quality control.

### PROJECT EXPERIENCE

#### **Portneuf Medical Center, Portneuf, Idaho:**

New 350,000SF replacement hospital. Facilities included surgical suites, heart and vascular surgical suites, pre-op and post-op areas, central sterile, central plant, dietary, emergency department, imaging (MRI, CT, R&F X-Ray), LDR and LDRP women's services, helistop, general and critical care patient suites, and administration areas.

#### **Texas Health Presbyterian Hospital Denton, Denton, Texas:**

New 300,000SF replacement hospital. Facilities included surgical suites, heart and vascular surgical suites, pre-op and post-op areas, central sterile, central plant, dietary, emergency department, imaging (MRI, CT, R&F X-Ray), LDR and LDRP women's services, helistop, general and critical care patient suites, and administration areas.

#### **Methodist Hospital for Surgery, Addison, Texas:**

New 108,000SF surgical hospital; facilities included surgical suites, pre-op and post-op areas, central sterile, central plant, dietary, emergency department, physical therapy, imaging (MRI, CT, R&F X-ray), general and critical care patient suites, and administration areas.

#### **Patients Medical Center, Pasadena, Texas:**

New 125,000SF surgical hospital; facilities included surgical suites, pre-op and post-op areas, central sterile, central plant, dietary, emergency department, imaging (MRI, CT, R&F X-ray), helistop, general and critical care patient suites, and administration areas.

#### **Texas Regional Medical Center, Sunnyvale, Texas:**

New 125,000SF surgical hospital; facilities included LDR and LDRP women's services, surgical suites, heart and vascular surgical suites, pre-op and post-op areas, central sterile, central plant, dietary, emergency department, imaging (MRI, CT, R&F X-Ray), helistop, general and critical care patient suites, and administration areas.

#### **Plano Rehabilitation Hospital, Plano, Texas:**

Existing call center renovated into a 90,000SF rehabilitation hospital. Facilities included dietary, emergency department, imaging (MRI, CT, R&F), inpatient and outpatient physical therapy areas, central plant, and general care patient suites.

#### **Baylor Hospital, Garland, Texas:**

New 60,000SF patient tower, and dietary suite expansion. Project also involved paralleling multiple diesel emergency generators to accommodate power for the essential electrical system for both the existing hospital areas, as well as the new expansion spaces.

#### **Baylor Hospital, Grapevine, Texas:**

New 70,000SF patient tower expansion. Project involved general and critical care patient suites, new dietary department, along with general administration support spaces.

#### **Granbury Surgical Plaza, Granbury, Texas:**

New 15,000SF ambulatory surgical center. Project involved surgical suites, pre-op and post-op areas, along with general administration support spaces.



## PRAIRE CREEK LIBRARY

**Owner:**

City of Dallas

**Architect:**

Robert Meckfessel  
DSGN Associates  
3200 Main Street, Suite 1.2  
Dallas, Texas 75226  
214-748-7712



**Contractor:**

Turner Construction Company

**Project Description:**

Project consisted of approximately 18,000 square foot library for the City of Dallas. Project requires LEED Platinum Certification. The building includes reading room, office space, auditorium, classrooms, and men's and women's restrooms. Meza Engineering, Inc. designed the HVAC, Plumbing, and Electrical Systems.

**Engineering:**

- HVAC system utilizes geo-thermal heat pumps. Three air handlers serve the reading room area with an underfloor air distribution system. Individual heat pumps serve the Office Area, Classrooms, and Meeting Room.
- Each heat pump has an individual water circulation pump and can operate independently from other heat pumps.
- Demand control ventilation was implemented in the areas of varying occupancy such as the reading area, and the meeting rooms. This system measures CO<sub>2</sub> levels in the rooms and modulates the amount of outside air as needed to maintain acceptable levels of CO<sub>2</sub> in the room.
- Meza Engineering, Inc. performed the energy model calculation and will support the architect to provide the required LEED documentation. 10 points are expected to be achieved under Credit EA1 – Optimize Energy Performance for LEED NC version 3.0.
- The energy model was utilized to provide data for the GLD (Ground Loop Design) software to calculate number of wells and depth.



## CITY OF DALLAS - FIRE STATION 10

### Owner:

City of Dallas

### Architect:

BRW Architects  
Gary DeVries  
3535 Travis Street  
Suite 350  
Dallas, Texas 75204  
214-528-8704



### Project Description:

This fire station project is approximately 11,897 square foot. It was designed for the City of Dallas. Project achieved LEED Gold Certification. The building includes apparatus bays, bunker gear room, dormitory, offices, kitchen, and a fitness room. Meza Engineering, Inc. designed the HVAC, Plumbing, and Electrical Systems.

### Engineering:

The mechanical, plumbing, and electrical engineering included the following:

- HVAC system design utilized high efficiency roof mounted DX units. The rooftop units are equipped with an energy recovery wheel.
- Energy analysis was performed with Trane Trace 700. Four LEED points were achieved.
- Kitchen design included a kitchen exhaust fan and make-up air.
- Apparatus bay ventilation was designed with a roof mounted exhaust fan and wall mounted make up air intake louvers. Apparatus bay heating was designed with radiant tube type heaters.
- Plumbing design for all water closets, lavatory, showers, kitchen, and water heating system. Existing sand/oil interceptor for apparatus bay floor drains was reused.
- Electrical system design for all lighting, general power, power for HVAC equipment and owner furnished equipment.
- Alert lighting system.
- Electrical system included a natural gas emergency generator.
- Building exterior lighting and site lighting.



## CITY OF DALLAS - FIRE STATION 32

### Owner:

City of Dallas

### Architect:

BRW Architects  
Gary DeVries  
3535 Travis Street  
Suite 350  
Dallas, Texas 75204  
214-528-8704



### Project Description:

This fire station project is approximately 12,600 square foot. It was designed for the City of Dallas. Project goal is LEED Gold Certification. The building includes apparatus bays, bunker gear room, dormitory, offices, kitchen, and a fitness room. Meza Engineering, Inc. designed the HVAC, Plumbing, and Electrical Systems.

### Engineering:

The mechanical, plumbing, and electrical engineering included the following:

- HVAC system design utilized high efficiency geothermal heat pumps.
- Energy analysis was performed with Trane Trace 700.
- Kitchen design included a kitchen exhaust fan and make-up air.
- Apparatus bay ventilation was designed with a roof mounted exhaust fan and wall mounted make up air intake louvers. Apparatus bay heating is designed with geothermal heat pumps.
- Plumbing design for all water closets, lavatory, showers, kitchen, sand/oil interceptor and a solar water heating system.
- Electrical system design for all lighting, general power, power for HVAC equipment and owner furnished equipment.
- Alert lighting system.
- Electrical system included a natural gas emergency generator.
- Building exterior lighting and site lighting.
- Revit was used to produce construction documents.





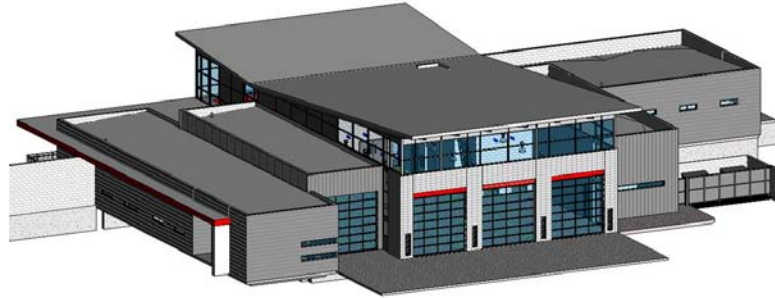
## CITY OF DALLAS - FIRE STATION 37

### Owner:

City of Dallas

### Architect:

PSA Dewberry  
Christopher Mueller  
7557 Rambler Road  
Suite 670  
Dallas, Texas 75231  
469-232-5240



### Project Description:

This fire station project is approximately 13,850 square foot. It was designed for the City of Dallas. Project goal is LEED Gold Certification. The building includes apparatus bays, bunker gear room, dormitory, offices, kitchen, and a fitness room. Meza Engineering, Inc. designed the HVAC, Plumbing, and Electrical Systems.

### Engineering:

The mechanical, plumbing, and electrical engineering included the following:

- HVAC system design utilized high efficiency geothermal heat pumps.
- Energy analysis was performed with Trane Trace 700.
- Kitchen design included a kitchen exhaust fan and make-up air.
- Apparatus bay ventilation was designed with a roof mounted exhaust fan and wall mounted make up air intake louvers. Apparatus bay heating is designed with geothermal heat pumps.
- Plumbing design for all water closets, lavatory, showers, kitchen, sand/oil interceptor and a solar water heating system.
- Electrical system design for all lighting, general power, power for HVAC equipment and owner furnished equipment.
- Alert lighting system.
- Electrical system included a natural gas emergency generator.
- Building exterior lighting and site lighting.
- Revit was used to produce construction documents.



## CITY OF DALLAS - FIRE STATION 42

### Owner:

City of Dallas

### Architect:

PSA Dewberry  
Tom Shaw  
7557 Rambler Road  
Suite 670  
Dallas, Texas 75231  
469-232-5200



### Project Description:

This fire station project is approximately 12,078 square foot. It was designed for the City of Dallas. Project achieved LEED Gold Certification. The building includes apparatus bays, bunker gear room, dormitory, offices, kitchen, and a fitness room. Meza Engineering, Inc. partnered with Piazza Engineering (Meza/Piazza Partners) to design the HVAC, Plumbing, and Electrical Systems. Meza Engineering scope of work primarily involved the electrical engineering.

### Engineering:

The mechanical, plumbing, and electrical engineering included the following:

- HVAC system design utilized a high efficiency variable refrigerant system. The system also used an energy recovery wheel.
- Kitchen design included a kitchen exhaust fan and make-up air.
- Apparatus bay ventilation was designed with a roof mounted exhaust fan and wall mounted make up air intake louvers. Apparatus bay heating was designed with radiant tube type heaters.
- Electrical system design for all lighting, general power, power for HVAC equipment and owner furnished equipment.
- Electrical loads were separated to allow the LEED measurement and verification point.
- Alert lighting system.
- Electrical system included a natural gas emergency generator.
- Building exterior lighting and site lighting.



## CITY OF LEWISVILLE – KEALY OPERATIONS CENTER

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### **Owner:**

City of Lewisville

### **Architect:**

Spurgin and Associates  
Kent Spurgin  
103 W. Louisiana  
McKinney, Texas 75069

### **Project Description:**

This operations center project is approximately 12,500 square foot (fully conditioned) with a 5,800 ventilated storage/shed area. It was designed for the City of Lewisville. Meza Engineering, Inc. designed the HVAC, Plumbing, and Electrical Systems.

### **Engineering:**

The mechanical, plumbing, and electrical engineering included the following:

- HVAC system design utilized roof mounted DX split systems with gas furnace for the conditioned area.
- Storage/shed area ventilation was designed with a wall mounted exhaust fan and wall mounted make-up air supply fan. Apparatus bay heating was designed with suspended unit heaters.
- Plumbing design for all water closets, lavatory, showers, kitchen, and water heating system. In addition, gas service design to serve the furnaces in the conditioned space.
- Electrical system design for all lighting, general power, power for HVAC equipment and owner furnished equipment.
- Building exterior lighting and site lighting.



## EL CENTRO WEST CAMPUS

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**Owner:**

Dallas County Community College District

**Architect:**

BRW Architects  
Lisa Lamkin  
3535 Travis Street  
Suite 350  
Dallas, Texas 75204  
214-528-8704

**Project Description:**

This Project is a new stand alone building of approximately 38,000 square feet. The facility included classrooms, computer labs, learning resource center, conference rooms, community room for special events, and an administration area. Meza Engineering, Inc. designed the Mechanical, Electrical and Plumbing Systems.

**Engineering:**

HVAC system consisted of a central plant in that housed a 130 ton screw chiller with dual compressors to allow some redundancy in case of failure of one compressor, one cooling tower with 2 fans, two small condensing type boilers, associated chilled water, condenser water and heating hot water pumps.

There is one variable volume air handler in each of the two floors and VAV air terminals with hot water heating. The community room is served by a separate constant volume air handler with chilled water coils and heating hot water coil. This system also included demand control ventilation utilizing CO2 sensors to take advantage of lower outside air requirements during unoccupied times. This will allow a lower energy usage.

The plumbing system utilized one central water heater housed in a janitor's closet. The hot water distribution used a return loop with circulation pump.

The electrical distribution system had a 1000A, 277/480V, 3-phase main switchboard. Major mechanical equipment was served from this equipment. Two separate electrical rooms on each floor containing lighting and appliance panelboards and step-down transformers were utilized for the electrical distribution. Occupancy sensors in conjunction with dual-level switching were employed in classrooms for energy efficiency. Automatic means of control for public/common areas was achieved through the Energy management System (EMS) and time-clocks.



## MVC STUDENT CENTER AND SERVICES

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**Owner:**

Dallas County Community College District

**Architect:**

PSA Dewberry  
Timothy P. Layendecker  
7557 Rambler Road  
Suite 670  
Dallas, Texas 75231  
214-232-5229

**Project Description:**

This project consisted of a new two-story 60,000 square feet, multi-purpose building for the Mountain View College. The building included fitness area, bookstore, cafeteria, multi-purpose rooms, office areas, and registration and counseling areas. Meza Engineering, Inc. designed the electrical systems; Piazza Engineering designed the HVAC and plumbing systems. This was done through Meza/Piazza Partners joint venture.

**Engineering:**

Electrical system included the extension of the medium voltage loop at 13.2KV to serve the new building. This required the design of a new 1,500KVA unit substation with a 2000A main distribution board. The distribution within the building was accomplished via 4 electrical rooms 1,000 A using a standard 277/480V and 120/208V system.

The work included the following features:

- State-of-the-art, energy-efficient lighting fixtures and design.
- Emergency power was delivered using a 100KW natural-gas generator.



# MVC SCIENCE AND ALLIED HEALTH BUILDING

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**Owner:**

Dallas County Community College District

**Architect:**

Gensler  
Ted Watson  
5430 LBJ Freeway  
Three Lincoln Centre, Suite 400  
Dallas, Texas 75240  
214-273-1500

**Project Description:**

This project consisted of a new two-story Science and Allied Health building for the Mountain View College and the renovation of existing laboratories and support areas. The new building's area was approximately 40,000 square feet. The building included classrooms, laboratories and their support areas, office space, and common areas. It included microbiology, biology, organic chemistry, and inorganic chemistry laboratories and well as nursing teaching facilities. Meza Engineering, Inc. designed the electrical systems; Piazza Engineering designed the HVAC and plumbing systems. This was done through Meza/Piazza Partners joint venture.

**Engineering:**

Electrical system included a 1,000 A 277/480V main distribution panel for the new building feed from one of the existing substations throughout the MVC campus. The system included two electrical rooms. Emergency power was delivered using a 150KW natural-gas generator.

The work included the following features:

- State-of-the-art, energy-efficient lighting fixtures and design.
- Special distribution and control for the laboratories with emergency power-off and night-time control capabilities.
- 24-Hr emergency power to IT rooms and selected HVAC loads for laboratory conditioning.



## LEE McSHAN ELEMENTARY SCHOOL

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### **Owner:**

DISD – Dallas Independent School District

### **Architect:**

Powell/PSP Architects  
Richard Robinson  
5401 N. Central Expressway  
Dallas, Texas 75205  
214-526-2151

### **Project Description:**

This Project consisted of a new 90,000 SF Elementary School. The school has classrooms, cafeteria, auditorium, library, and gymnasium.

### **Engineering:**

HVAC system for the school was designed according to DISD's design guidelines. The classrooms used a variable air volume air handler per floor. Each air handler utilized an air side economizer, chilled water and electric heat. The central plant housed a water cooled chiller, condenser water pumps, and chilled water pumps. Space was reserved for future chilled water equipment. The administration, gymnasium, kitchen and dining area were designed with independent DX roof mounted equipment. Computer equipment rooms are cooled using DX split systems.

Kitchen plumbing design included the use of a grease trap, grease hood exhaust system with tempered make-up air, and gas distribution to kitchen appliances

Electrical scope included design of electrical system for the facility and exterior lighting. The electrical system included designing the service to building, the main distribution panels, fire alarm system, and electrical power and lighting. Data/Telecom systems were coordinated with the technology consultant.



## MIDWESTERN STATE UNIVERSITY

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**Owner:**

Midwestern State University

**Architect:**

Hensley, Lamkin, Rachel, Inc.  
Robert W. Lamkin, AIA  
14881 Quorum Drive  
Dallas, Texas 75254  
972-726-9400

**Project Description:**

This Project consists of a 148,082 square foot university housing project, located in Wichita Falls, Texas. The facility has 96 units, 276 beds divided into 3 floors. This project also included a surface parking lot located adjacent to the facility.

**Engineering:**

HVAC system for the school was designed according to client's requirements. Client requested utilizing DX (Direct Expansion) Split System with electric heating, one system per unit. Corridors and support areas such as lobby, sitting area, and conference rooms also used split systems. All condensing units were located on the roof.

The plumbing system to each unit was distributed through a series of chases. The domestic hot water heating used two (2) central gas boilers with storage tanks.

Electrical scope included design of electrical system for the facility and exterior lighting. The electrical system included designing the service to building, the main distribution panels and electrical power and lighting. Data/Telecom systems were coordinated with the university technology consultant.





## TXDOT TRAFFIC MANAGEMENT CENTER

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**Owner:**

TXDOT

**Architect:**

Rees Associates, Inc.  
Linda Bernauer  
1801 N. Lamar Street  
Suite 600  
Dallas, Texas 75202  
214-522-7337

**Project Description:**

This project consists of a 50,000 gross square foot freestanding building for the TxDOT Traffic Management Center in Mesquite, Texas.

**Engineering:**

Design Heating Ventilation and Air Conditioning (HVAC) system for the facility. HVAC system consists of variable volume packaged rooftop air conditioning units with variable frequency drives, and primary ductwork to electric heat air terminals. Critical areas requiring 24 hour air conditioning were provided with split system computer room units.

Plumbing services included design of the sanitary sewer, domestic water supply, and domestic hot water. Fire protection system includes, wet pipe, preaction system, and dry pipe system.

Electrical design included design of electrical system for the facility and exterior lighting. The electrical system included designing the service to building, the main distribution panels, emergency power with generator/UPS, fire alarm system, and electrical power and lighting. Data/Telecom systems were coordinated with the technology consultant.



## WEST TEXAS A&M – MARY MOODY NORTHEN

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**Owner:**

Texas A&M University System

**Architect:**

Rees Associates, Inc.  
David Messersmith  
1801 N. Lamar Street  
Suite 600  
Dallas, Texas 75202  
214-522-7337

**Project Description:**

Project consists of an 18,000 square foot addition to the Existing Mary Moody Northen Hall at the West Texas A&M University Campus in Canyon, Texas. Project includes a Band/Orchestra Hall, Rehearsal Halls, Percussion Rehearsal, Practice Rooms, Instrument/Uniform Storage Rooms, as well as Offices.

**Engineering:**

- Mechanical, Electrical, Plumbing and Fire Protection Engineering services included design of the following systems:
- Roof mounted variable air volume air handler system
- Fan-powered boxes with hot water supply
- Steam to hot water converters
- Chilled water system utilizes existing campus chilled water from utility tunnel
- HVAC system designed to strict acoustical requirements
- Electrical / Telecommunication service connected to equipment within existing Mary Moody Northen hall. Coordinated routing to minimize impact.



## DFW THERMAL REHABILITATION COMMISSIONING

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**Owner:**

DFW Airport

**Prime Commissioning Engineer:**

CH2MHILL  
Chandler Ogden  
12377 Merit Drive  
Dallas, Texas 75251  
210-377-3085

**Project Description:**

Meza Engineering, Inc. provided mechanical and electrical engineering commissioning services to CH2MHILL in connection with the mechanical and electrical engineering components associated with the design and construction of the Thermal Rehabilitation of Terminals A, B, C and E.

The systems commissioned were the Heating Hot Water System involving installation of two (2) new pumping station at each Terminal, one (1) at the north end and one (1) at the south end. Each station consisted of three pumps, adjustable speed drives, new electrical service, controls, and piping. The Chilled Water System involved installing some additional piping with electric heat tracing.

**Scope of Work:**

- Review Design Intent Documents.
- Assist the construction team with problem solving or resolving non-conformance issues or deficiencies, however, the responsibility ultimately resided with the Construction Manager and the associated A/E Design Team.
- Conduct site observations during the construction phase.
- Attend monthly progress meetings to monitor progress of the construction and coordinate resolution of commissioning related issues.
- Provide commissioning milestone items and dates for inclusion in the project construction schedule.
- Witness pipe flushing and pressure tests and document results.
- Review submittals of equipment and systems to be commissioned.
- Review Startup Checklists and witness startup for commissioned equipment.
- Review O&M manuals and training plan.



# DFW AIRPORT COMMISSIONING

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**Owner:**

DFW Airport

**Prime Commissioning Engineer:**

Sebesta Blomberg  
Glin Jay  
400 East Royal Lane  
Irving, Texas 75039  
972-401-2511

**Project Description:**

Assisted prime commissioning agent in commissioning of MEP systems including SRC (System Readiness Checklists), CAR (Corrective Action Reports), and VTP (Verification and Test Procedures) on the following systems:

**Energy Plaza Boiler #10**

- Steam Boiler, Boiler Feed Pump, Condensate Transfer pump, and Condensate storage tank.
- Jet fuel supply system and natural gas system.
- BMS controls
- Testing of safety items such as temperature and pressures

**Terminal D and Hotel**

- Electrical Switchgear, Transformers, and Panelboards
- Emergency Generator
- Automatic Transfer Switches
- Shut-down procedures

**Air Rescue Fire Fighting Station**

- Electrical Switchgear, Transformers, and Panelboards
- Emergency Generator
- Automatic Transfer Switches
- Chiller
- Air handlers
- Air Terminals
- Pumps
- Fans



## DFW AIR RESCUE FIRE FIGHTING STATION #5

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**Owner:**

DFW Airport

**Prime Commissioning Engineer:**

Sebesta Blomberg  
Glin Jay  
400 East Royal Lane  
Irving, Texas 75039  
972-401-2511

**Project Description:**

Meza Engineering, Inc. provided mechanical and electrical engineering commissioning services to Sebesta Blomberg in connection with the mechanical and electrical engineering components associated with the design and construction of the Air Rescue Fire Fighting Station.

**Scope of Work:**

- Review Design Intent Documents.
- Provided Contractor with System Readiness Checklist (SRC)
- Witness Verification and Test Procedures (VTP).
- Provided Corrective Action Reports (CAR).
- Review submittals of equipment and systems to be commissioned.
- Review O&M manuals and training plan.

**Systems Commissioned:**

- Electrical Switchgear, Transformers, and Panelboards
- Emergency Generator
- Automatic Transfer Switches
- Chiller
- Air handlers
- Air Terminals
- Pumps
- Fans
- Controls Sequences