city of CINCINNATI

RFI Reference Number:

RFI764CPDTRGT

Time and Date Due:

February 20, 2020

3:00 p.m. EST

Title of RFI:

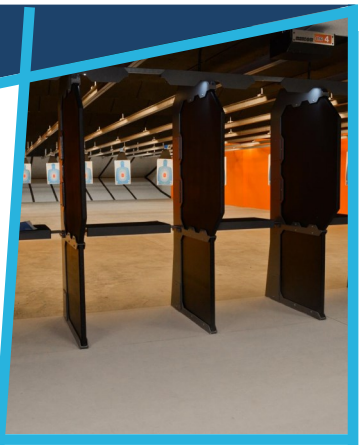
Noise Reduction at CPD Target Range

Sources Sought Response submitted by:

Megen Construction Company, Inc.

in association with **KZF Design, Inc.**

MEGEN *In association with* KZFDESIGN



SECTION A:

Company Contact Information

Megen Construction Company, Inc.
POC: Tim Sharp, RA, LEED AP BD+C, Esq. - Vice President
(513) 742-9191; tsharp@megenconstruction.com
11130 Ashburn Road, Cincinnati, OH 45240

Megen Construction Company is an award-winning firm with 25 years of delivering Encore Construction Experiences. Headquartered in Cincinnati with a staff of over 30 professionals, Megen has completed over $2 billion in construction across Ohio and the country, ranging from $200K small renovations to $65M large projects. A two-time Build America Award winner and Ohio's first LEED Platinum Builder, Megen has been involved in the construction for many significant projects in the Greater Cincinnati region including the Fountain Square Revitalization, Washington Park Renovation, Sharonville Convention Center Expansion, Cincinnati Reds Hall of Museum, and the National Underground Railroad Freedom Center. Megen has also demonstrated its construction expertise and commitment to exceeding clients' expectations on over $400M government projects including projects for the City of Cincinnati. Our City of Cincinnati project experience includes the Smale Riverfront Park, Tyler Davidson Fountain Restoration, Valley View Salt Dome & Conveyor Replacement, Greater Cincinnati Water Works Chester Park Data Center Renovation and King Records Building Stabilization. Megen also has experience constructing target ranges including projects for Point Blank and Target World.

A City of Cincinnati MBE certified firm, Megen knows that what makes us different makes us stronger. They are committed to completing quality work, being good stewards of client's capital, meeting deadlines and eliminating headaches and avoiding surprises. Consistent with our mission of *"Delivering Encore Construction Experiences"* to our clients, over 70% of our business is from repeat customers.

KZF Design Inc.
POC: Scott Csendes, Vice President, Civic and Public Safety
(513) 621-6211; scott.csendes@kzf.com
700 Broadway Street, Cincinnati, OH 45202

KZF Design, Inc. is a well-established, award-winning architectural/engineering firm, celebrating over 60 years of providing multidisciplinary design services to public and private clients. For over fifty years, KZF has been serving agencies of federal and state governments across the nation and around the world. As a full-service architecture and engineering firm in operation since 1956, KZF Design has extensive experience with a wide array of architectural and engineering disciplines. Our team of more than 65 architects, engineers, interior designers and urban planners have created regional landmarks across the country and around the world. We've built our reputation on thoughtful, award-winning designs and unparalleled technical proficiency in both the public and private sectors.

As one of the Midwest's premier design firms, we pride ourselves on fostering an internal culture of continuous improvement and reinvention. KZF has provided public safety and law enforcement facility design since 1993, with a combination of renovation and new construction projects in multiple states. Our team has developed ranges with various programmatic requirements using National Rifle Association design standards. We have experts in equipment, simulators, safety procedures, and lead containment at your disposal. Our team's past firearm range clients include the US Army, US Navy, US Air Force, US Customs Service, the FBI, and the US Federal Bureau of Prisons. KZF is also familiar with the standards and procedures of working with the City of Cincinnati, and has maintained Contingency/Master Services Agreements with the City of Cincinnati, Metropolitan Sewer District of Greater Cincinnati, and GCWW for more than 20 years. Recent projects for the City of Cincinnati include the Hirsch Recreation Center renovation in Avondale, Smale Riverfront Park, and Criteria Architecture services for the ongoing Fire Training Center.

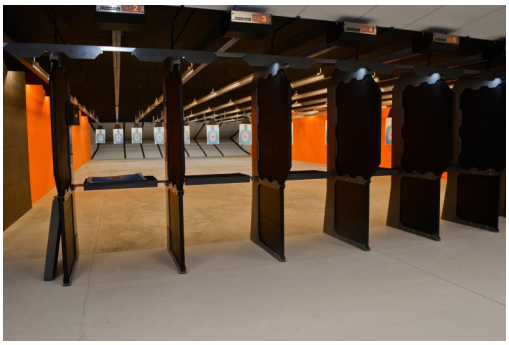
SECTION B:

Similar Experience

Megen Construction Similar Project Experience

Point Blank West Indoor Shooting Range and Retail Store

A 52,000 SF existing building renovation into a state-of-the-art indoor shooting range, gun shop and education center in West Cincinnati. Features of the new facility include an 11-station pistol range; a 50-yard rifle range with 11 climate-controlled stalls; a state -of the art Mancom system with moveable and programmable targets; two classrooms for up to 100 occupants for training and licensing; and 6,000 SF of retail area. As construction manager, Megen coordinated the deliveries and installation of intricate and complex shooting range equipment; **value engineered items to meet sound requirements;** and ensured the project was completed on budget and on schedule for the Owner's opening date.

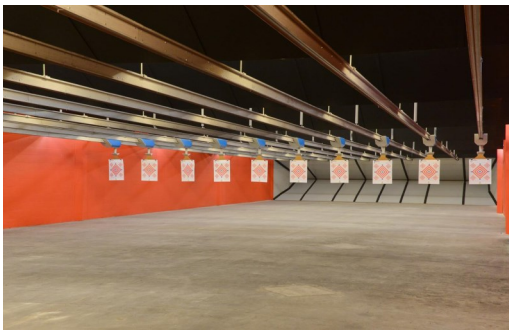


Location: Harrison, OH

Size: 52,000 SF; $1.1M

Timeframe: 06/2013 to 10/2013

Services: Construction Management Agency (CMA)



City of Cincinnati, Valleyview Salt Dome Replacement

The design and construction for replacement of the tensile fabric on the Valley View Salt Dome and installation of a larger 24" salt conveyor with a new hopper system in a pit with a pit shed for unloading the salt from semi-trucks into the salt dome. Megen-KZF served as design-builder for the City of Cincinnati. Megen was responsible for design coordination, establishment of the overall project schedule, cost control, safety management and coordination with Owner and end user personnel.

Location: Cincinnati, OH

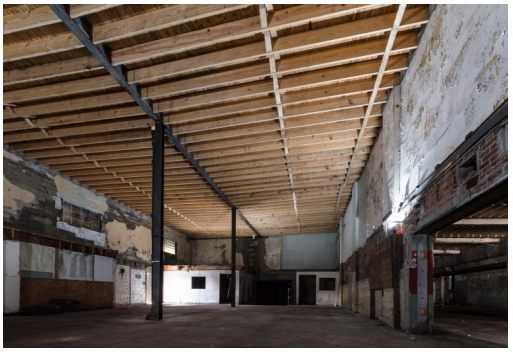
Size: 18 ton structure; $1.7M

Timeframe: 03/2018 to 11/2018

Services: Design-Build

City of Cincinnati, King Records Building Stabilization

The stabilization of the 18,000 SF former King Records complex in Evanston. The historic building stabilization work included abatement/demolition of the existing roof structure, replacement of all roof joists and sheathing, installation of new TPO roof and gutter; and painting exterior gutters. Megen served as general contractor on the project, assisting the City in building stabilization, the first step in preserving this historic landmark.



Location: Cincinnati, OH

Size: 18,000 SF; $620,300

Timeframe: 09/2018 to 02/2019

Services: General Contracting

SECTION B:

Similar Experience

Megen Construction Similar Project Experience *(continued)*

Megen Construction has experience with multiple Pre-Engineered Metal Building (PEMB) fabricators on projects throughout Ohio including Corinthian Baptist Church, Wilmington College, Mars Hill Academy and multiple ODOT projects. Below are details on two PEMB we have constructed.

Corinthian Baptist Church

A new 36,000 SF church and daycare facility, located across from Mercy Health's Corporate Headquarters in Cincinnati, Ohio. The ground level of the new facility includes a 1,000-seat sanctuary, vestibule/lobby, A/V production room, an administration area, pastor's suite, kitchenette, classrooms, daycare with connected outdoor play area, and ancillary support spaces including security office and nurse's room with growth for future expansion. **The building is a pre-engineered metal structure on three sides. The front of the structure is constructed of conventional steel and tied into the pre-engineered metal building (PEMB), matching the PEMB finished panels.** Megen Construction served as the construction manager, coordinating all preconstruction and construction efforts including cost estimating and value engineering.

Location: Cincinnati, OH

Size: 36,000 SF; $7.8M

Timeframe: 09/2017 to 05/2019

Services: Construction Manager At Risk (CMR)

Wilmington College Center for Sport Sciences

A 40,500 SF new athletic, academic and leased medical office building on the Wilmington College campus, which houses a variety of spaces including an outdoor synthetic turf training field; large high-bay indoor athletic area; athletic training program area; chiropractor area; leasable tenant space for physical therapy, orthopedic, and medical imaging practices; and lobby and support spaces. The Center is home to Wilmington College's nationally prominent athletic training program and other sport sciences, and also accommodates training for essentially all of the College's 21 sports teams. Megen served as the construction manager, providing preconstruction and construction services including value engineering during design to meet budget, schedule management, cost control, quality control, coordination with the College and local code jurisdictions. **The project was a pre-engineered metal building.**

Location: Wilmington, OH

Size: 40,500 SF; $7.4M

Timeframe: 03/2018 to 11/2018

Services: Construction Manager At Risk (CMR)

SECTION B:

Similar Experience

KZF Design Similar Experience

Detailed project sheets for KZF Design's similar experience is included on the following pages for the projects listed below:

US Customs Advanced Training Center
Location: Harper's Ferry, WV
Size: 65,000 SF firing range and training center; $11M
Timeframe: 2007
Services: A/E services

US Navy Special Weapons Facility
Location: Crane, IN
Size: 40,000 SF weapons lab facility; $8.7M
Timeframe: 2008
Services: Designer of Record, full A/E services

Big Sandy Penitentiary and Federal Prison Camp
Location: Inez, KY
Size: 677,000 SF federal correctional facility and prison camp; $146M
Timeframe: 2003
Services: Designer of Record, full A/E services

Hazelton Penitentiary and Federal Prison Camp
Location: Hazelton, WV
Size: 650,000 SF correctional facilities; $134M
Timeframe: 2004
Services: A/E services

Wright-Patterson AFB Small Arms Firing Range
Location: WPAFB, OH
Size: 28,556 SF firing range; $6.3M
Timeframe: 2004
Services: A/E services for Design-Build RFP development

Hamilton County Coroner's Office and Crime Lab
Location: Cincinnati, OH
Size: 89,000 SF new laboratory and administrative facility
Timeframe: 2017 to 2019
Services: A/E Services

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

21. TITLE AND LOCATION *(City and State)*
U.S. Customs Service, Advanced Training Center, Harper's Ferry, WV; USACE Louisville District

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (if Applicable)
2007	2007

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
U.S. Customs Service Procurement Division	James Lieberman	(202) 927-0435

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

KZF Design, as part of a Design/Build team, provided architecture and engineering services for the new Advanced Training Center for the U.S. Customs Service. The 104-acre site adjoins the Harper's Ferry, West Virginia National Historic Site. The project location is significant to the mission of this facility, one of the first advanced training centers developed in response to our current national focus on Homeland Security.

The project consists of ten buildings with an emphasis on defensive tactics training and training simulations involving border crossings, airport transfers, a warehouse/hotel building, marine training on a four-acre lake, and a large indoor and outdoor firing range. Additional support buildings for the complex are included.

KZF Design provided architectural and civil, structural and MEP engineering services for the firing ranges and armory as well as structural engineering services for all buildings in the complex.

The firing range is a major focus of the complex and consists of two 25-yard indoor ranges, two 25-yard outdoor ranges, and an additional 100-yard outdoor range. A total of 60 firing lanes are provided with a full range of targetry options available. The range is located at the rear of the site immediately behind the armory building. Unique features include special exhaust systems for the ranges and target systems. The armory contains storage facilities for weapons and ammunition as well as shop facilities.

RELEVANCE TO PROJECT

- **Contract #:** W912QR-04-D-0035-0007
- **Scope:** Design/Build of New Training Center
- **Cost**: $11,000,000 Construction Cost
- **Size and Facility Type:** 65,000 SF Firing Range and Training Center
- **Specialized Experience and Technical Competence**:
  - ✓ Administration/Operations Facility
  - ✓ Anti-Terrorism/Force Protection Experience
  - ✓ Blast Mitigation
  - ✓ CONUS: East Region
  - ✓ Cost: $10M-$20M
  - ✓ Design/Build
  - ✓ Energy & Sustainable Design
  - ✓ Firing Range
  - ✓ Multi-Facility Project
  - ✓ New Construction
  - ✓ Sound Sensitive/Acoustic Design
  - ✓ Size: 50,000-100,000 SF
  - ✓ Storage Facilities
  - ✓ Training Facilities
  - ✓ Use of BIM/CADD
  - ✓ Warehouse Facility
  - ✓ Weapons Storage
  - ✓ Vertical Construction
  - ✓ Cost Estimate via M-CACES/MII
- **Past Performance**:
  - Associated Builders and Contractors, Arkansas Chapter; 2009 Excellence in Construction Award
  - "Excellent" PPQ from Design/Builder

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City And State)	(3) ROLE
A.	KZF Design, Inc.	Cincinnati, OH	Project Management, Architecture, Interior Design, Civil, Structural, Mechanical, Electrical, Plumbing, Construction Administration

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

21. TITLE AND LOCATION *(City and State)*
Special Weapons Facility, Naval Surface Warfare Center Crane, IN; US Navy

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (if Applicable)
2008	2008

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
US Navy, Naval Surface Warfare Center; Crane, IN	Tim Curry, Contracting Officer	(812) 854-3537

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

KZF provided full-service Architectural/Engineering services, as part of a Design/Build team, of a new, 30,000 SF lab/office building and partial renovation encompassing and additional 10,000 SF of Building 2521 for the Special Weapons Facility. Force protection and sustainable design were considered when laying out parking and in the design of the actual building. The building included lab space which was designed for more than 15 watts per square inch. This project was the first task order on a Design/Build MACC with NSWC Crane.

The new facility is the only fully-integrated small arms development center in the Department of Defense and provides facilities for rapid execution of current and future tasks for the Warfighter. The facility meets the needs of the Navy, USSOCOM, Army, USMC and DoD Special Forces for force protection, amphibious operations, base security, naval construction battalions, fleet support and training. The Special Weapons Facility enhances the NSWC's ability to develop, test, and develop products for the Fleet and Special Operations Forces. These facilities provide the needed support to complete the full life cycle needs of Small Arms and provide for the training of nearly 400 military personnel each year.

The facility includes:

- SCIF
- SIPRNET Spaces
- Weapons Vault
- Display room
- Conference rooms
- Training spaces
- Office space

Complete SID and CID packages were also prepared for this project.

RELEVANCE TO PROJECT

- **Contract #:** N40083-06-D-4018-0001
- **Scope:** Design/Build of Small Arms Development Center
- **Cost**: $8.7M Construction Value
- **Size and Facility Type:** 40,000 SF Weapons Lab Facility
- **Specialized Experience and Technical Competence**:
  - ✓ Demonstrate experience and expertise for the analysis and design of measures to resist blast effects on buildings and structures.
  - ✓ Prediction of weapon and IED explosive and deflagration effects
  - ✓ Analyze and design new and existing buildings and structures to comply with DoD criteria
  - ✓ Demonstrate experience with developing, designing, and preparing plans, specifications, and estimates for measures to resist aggressor threats using UFC 4-010-01.
  - ✓ Demonstrate experience with surveys and assessments of security, antiterrorism, and protective measures for existing facilities.
  - ✓ Preparation of Construction plans and specifications
- **Past Performance**:
  – "Excellent" PPQ Rating from Client

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City And State)	(3) ROLE
A.	KZF Design, Inc.	Cincinnati, OH	Designer of Record - Project Management, Architecture, Civil Engineering, Mechanical Engineering, Electrical Engineering, Interior Design

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

21. TITLE AND LOCATION *(City and State)*

Big Sandy United States Penitentiary and Federal Prison Camp, Inez, KY; Federal Bureau of Prisons

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (if Applicable)
2003	2003

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Department of Justice, Federal Bureau of Prisons	Craig Forstater, Project Administrator	2020.514.5942 cforstater@bop.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

In the late 1990's, the Federal Bureau of Prisons embarked on an aggressive design-build program designed to nearly double capacity from 105,000 to 190,000 beds nationwide over the next decade. The Big Sandy U.S. Penitentiary, at Inez in eastern Kentucky, was one of the first contracts awarded under this process.

The $146 million facility is a maximum-security institution with 768 cells and support facilities and 96 special housing cells. In the development of the design, KZF worked to establish a design aesthetic that met the BOP's requirements for a highly functional complex that would be neither opulent nor barbaric. The complex employs simple large scale massing and small scale detailing for an overall visual effect of security, clarity and order.

RELEVANCE TO PROJECT

- **Scope:** Design/Build of New Correctional Facility
- **Cost**: $146,000,000
- **Size and Facility Type:** 677,000 SF Federal Correctional Facility and Prison Camp
- **Specialized Experience and Technical Competence**:
  - ✓ Electrical Distribution System design
  - ✓ Work on secure facility
  - ✓ Specialized electrical/security requirements

This facility, which has a total building area of approximately 677,000 SF, is a compound plan consisting of one- and two-story program buildings, a Federal Prison Industries (UNICOR) factory, and three four-story general housing buildings enclosed in a continuous secure corridor surrounding an interior compound. In addition, a 27,000 SF minimum-security work camp with living units and support facilities for 128 inmates is located outside the secure compound, along with a central warehouse, garage maintenance building, and a firing range. The 345-acre mountainous site was extremely challenging. The site had been strip-mined as well as had two levels of room and tunnel deep mining. The site remediation, including mine grouting, was extensive, and the earthwork package was the largest and most complex ever undertaken by the Federal Bureau of Prisons.

The project included a new central energy plant with (4) 500 HP gas/hydronic boilers and (2) 800-ton electric centrifugal chillers, along with a variable speed pumping system and underground piping to the campus of buildings. The campus includes 12.47 kV power distribution systems and service transformers for each individual building, and secondary service to each building. Site Lighting for both penitentiaries includes 30' and 100' lighting poles, and building-mounted metal halide and high-pressure sodium lighting fixtures to meet specific lighting levels required by FBOP.

The prison's medical clinic included treatment rooms, triage rooms, exam rooms, x-ray room, clinical lab, audiology/optometry and dental treatment rooms, psychiatric observation areas, sterilization, physician's and nurses' offices, waiting rooms, medical record storage area with high-density storage, and a pharmacy.

The firing ranges at is a 25-yard outdoor range, comprising 16 total lanes. The firing range included earth berms, overhead baffles, and 1,500 square feet of enclosed space that includes classrooms and control booths.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City And State)	(3) ROLE
A.	KZF Design, Inc.	Cincinnati, OH	Designer of Record

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

21. TITLE AND LOCATION *(City and State)*
United States Penitentiary and Federal Prison Camp, Hazelton, WV; Federal Bureau of Prisons

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (if Applicable)
2004	2004

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Department of Justice, Federal Bureau of Prisons	Clifford Rowe, Chairman PJ Dick, Inc.	412.462.9300 crowe@pjdick.com

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRAC

In the late 1990's, the Federal Bureau of Prisons embarked on an aggressive design-build program designed to nearly double capacity from 105,000 to 190,000 beds nationwide over the next decade. The Hazelton U.S. Penitentiary, in West Virginia, was constructed as a part of this expansion program.

The $146 million facility is a maximum-security institution with 768 cells and support facilities and 120 additional special housing cells. In the development of the design, KZF worked to establish a design aesthetic that met the client's requirements for a highly functional complex that would be neither opulent nor barbaric. The complex employs simple large scale massing and small scale detailing for an overall visual effect of security, clarity and order.

This facility, which has a total building area of approximately 650,000 SF, is a compound plan consisting of one- and two-story program buildings, a Federal Prison Industries (UNICOR) factory, and six 2-story general housing buildings enclosed in a continuous secure corridor surrounding an interior compound. The entire complex is enclosed by a triple security fence with a taut wire system and six guard towers ring the secure perimeter.

RELEVANCE TO PROJECT

- **Contract #:** JX00C-934
- **Scope:** Design/Build of Correctional Facilities
- **Cost**: $134,000,000
- **Size and Facility Type:** 650,000 SF Correctional Facilities
- **Specialized Experience and Technical Competence**:
  - ✓ Electrical Distribution System design
  - ✓ Work on secure facility
  - ✓ Specialized electrical/security requirements

In addition, a 27,000 SF minimum-security work camp with living units and support facilities for 128 inmates is located outside the secure compound, along with a central warehouse, garage maintenance building, and a firing range.

The 996-acre site was topographically challenging. The site had been strip-mined in some areas and required remediation. KZF also provided master planning of the site, allowing for Men's Maximum Security, Minimum Security, and Women's minimum security prison with 35 buildings. KZF Design performed design for 12.47 kV multi-loop distribution for entire site with service transformers, and secondary service distribution to each building.

KZF Design has developed Site Lighting for all three penitentiaries using 30 feet, and 100 feet lighting poles and building mounted metal halide and high-pressure sodium lighting fixtures to meet specific lighting levels required by FBOP.

The firing ranges at is a 25-yard outdoor range, comprising 16 total lanes. The firing range included earth berms, overhead baffles, and 1,500 square feet of enclosed space that includes classrooms and control booths.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City And State)	(3) ROLE
A.	KZF Design, Inc.	Cincinnati, OH	Project Management, Civil Engineer, Mechanical Engineer, Electrical Engineer, Cost Estimator, Construction Administrator

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

21. TITLE AND LOCATION *(City and State)*
Small Arms Firing Range, Wright-Patterson AFB; USACE Louisville District

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (if Applicable)
2004	2004

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
USACE Louisville District	Mr. Harrison Fox, PE	harrison.fox@usace.army.mil 502-315-6359

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRAC

KZF Design, as part of a joint venture, provided Architectural and Engineering services necessary to create a Design-Build RFP for a new $6.3 million Fully Contained Small Arms Range at Wright-Patterson Air Force Base.

The project included facilities for a new 2,653 sm indoor Small Arms Range for certification in the use of handguns, shotguns, rifles, and machine guns. The range includes 21 firing line positions for pistols, rifles and shotguns and two special firing line positions for machine guns and safety lanes.

Range support functions include a bullet trap area, shooting booths, weapons maintenance/cleaning room, classrooms, administrative offices, target storage and repair, storage of range supplies/ equipment, an alarmed arms vault, a target carrier system, a target control system, an audio/visual communications system, and a degreasing sink.

The firing range was designed with bulletproof walls, floors and roof construction. The Interior range walls construction used grout filled concrete masonry units and reinforced 3500-psi cast-in-place concrete.

RELEVANCE TO PROJECT

- **Contract #:** DACA27-02-D-0003, Delivery Order 5
- **Scope:** Design/Build RFP Development
- **Cost**: Construction: $6,358,000; Design Fee: $220,381
- **Size and Facility Type:** 28,556 SF Firing Range
- **Specialized Experience and Technical Competence**:
  - ✓ Design/Build RFP Development
  - ✓ Firing Range Design
- **Past Performance**:
  - – "Very Good" ACASS Rating

The ceiling of the firing lane area was designed using a ceiling (shield) that could safely deflect a direct hit from a M60 (7.62mm) round. The remainder of the ceiling down range from the Horizontal Safety Ceiling has ceiling baffles used to prevent direct fire into the roof structure, lighting etc. by restricting the rounds to down range travel. Main Range Firing lanes are four (4) feet wide and eighty-two (82) feet long. Machine Gun lanes are six (6) feet wide and eighty-two (82) feet long. The multi-use range is estimated to use over 273,000 rounds a year. The Machine Gun range is estimated to be in use fifteen (15) hours a month and uses an estimated 55,000 rounds a year.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City And State)	(3) ROLE
A.	KZF Design, Inc.	Cincinnati, OH	Project Management, Civil Engineering, Mechanical Engineering, Electrical Engineering, Cost Estimation, Quality Review

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

21. TITLE AND LOCATION *(City and State)*
Coroner's Office and Crime Lab, Blue Ash, OH;
Hamilton County Commissioners

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (if Applicable)
Ongoing	2019 (estimated)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Hamilton County, OH Department of County Facilities	Ralph Linne, Director of County Facilities	513-946-5000 rwl@hamilton-co.org

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

The Hamilton County Coroner & Crime Lab is a nationally accredited, regional center of forensic medicolegal death investigation. HCCL provides death investigation services to Hamilton County in cases of sudden, unexpected, violent, suspicious, or unnatural deaths. The office serves families and other loved ones of decedents, both directly and via interactions with state and local offices and departments, hospitals and care-giving agencies, first responders, law enforcement agencies, funeral directors, attorneys, tissue procurement agencies, and medical schools.

The Hamilton County Coroner and Crime Lab departments, having outgrown their current facility, sought to develop and construct a new, modern crime lab in an easily accessible location, to consolidate operations and enhance the departments' long-term goals.

The new multi-story facility, located in the suburb of Blue Ash, will be approximately 89,000 SF, and have a lower-level parking area. Programmed spaces within the facility include:

- Morgue & Autopsy
- Investigations Unit
- Trace Evidence and Evidence Processing
- Firearms and Tool Marks Lab with Firing Range
- Latent Prints and Cyber Forensics
- Toxicology and Histology
- Serology and DNA
- Controlled Substances
- Administration and Office space
- Shared Interaction and Multi-Purpose Training Space

In addition, the facility will include a receiving area with secure sallyport for transport of remains and evidence, and discreet meeting spaces for families.

PROJECT RELEVANCE

- **Scope:** Design of New Laboratory and Administrative Facility
- **Contract Amount:** **$**38,383,000 Construction Cost
- **Contract Period of Performance:** 11/2017 - Ongoing
- **Specialized Experience and Technical Competence**:
  - ✓ Institutional and Industrial Systems and Facilities
  - ✓ Laboratories, Research Facilities
  - ✓ Civil and Building Structures
  - ✓ Foundations, Pavements, Site Development
  - ✓ HVAC, Plumbing
  - ✓ Fire Protection
  - ✓ Domestic Water
  - ✓ Chilled Water
  - ✓ Cooling Tower Water
  - ✓ Process Equipment and Piping
  - ✓ Electrical Power Distribution
  - ✓ Controls
  - ✓ Lighting
  - ✓ Fire and Smoke Detection
  - ✓ Life Safety
  - ✓ Access Controls
  - ✓ Lightning Protection and Grounding
- **Past Performance:** Project Ongoing

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	KZF Design, Inc. (DUNS 050661388)	Cincinnati, OH	Project Management, Architecture, Civil, Structural, Mechanical, Electrical, and Plumbing Engineering, Interior Design

SECTION B:

Similar Experience

Megen Construction and KZF Design have a long history of working together, beginning with a renovation of existing office space for Choice Care (Humana) in Cincinnati, Ohio in 1995. Through the years, the Megen/ KZF team has continued to work on a variety of projects and our relationship continued into the government sector, as we worked together as a design-bid-build team on three projects for Wright-Patterson AFB. Over the last ten years, the Megen/KZF design-build team has completed five design-build projects for the U.S. Army Corps of Engineers, which received Outstanding and Above Average evaluations, and worked together on two City of Cincinnati projects. Please see the chart below for a closer look at our historical experience together:

	PROJECT VALUE	COMPLETION DATE	DELIVERY METHOD	MEGEN	KZFDESIGN
City of Cincinnati **Valley View Salt Dome and Conveyor**	$1.2M	2018	Design-Build	✔	✔
City of Cincinnati **Hirsch Recreation Center Renovation**	$3.1M	2018	Design and Estimating	✔	✔
Ohio University **Hwa Wei Lee Roof Replacement**	$320K	2017	Design and Estimating	✔	✔
The Ohio State University **Seigfred Hall Renovation, MEP Upgrades**	$9.5M	2017	Design and Estimating	✔	✔
Ohio Department of Natural Resources **State Park Cabins Renovations, Southern Region**	$7M	2016	Design-Build	✔	✔
Ohio Department of Transportation **Adams, Brown and Ross Counties, OH** **Full Service Maintenance Facilities**	$22.2M	2015	Design and Estimating	✔	✔
City of Monroe **Urban Center Exterior Renovation and Restoration**	$800K	2015	Design-Bid-Build	✔	✔
General Electric (GE) **Building 700 Façade Renovation**	$4.8M	2014	Design and Estimating	✔	✔
Ohio Department of Transportation **Highland County Full Service Maintenance Facility**	$6.5M	2014	Design and Estimating	✔	✔
The Ohio State University **Hale Hall Renovation**	$2.3M	2014	Design and Estimating	✔	✔
Ohio Dept of Administrative Services **Assessment for Property & Facilities Buildings**	Various	2013	Design and Estimating	✔	✔
U.S. Army Corps of Engineers, Huntsville **Ft. Bliss Indoor Aquatics Center**	$13.8M	2013	Design-Build	✔	✔
Miami University **Summer 2013 Residence Hall Renovations**	$4M	2013	Design and Estimating	✔	✔
The Ohio State University **Morehouse Pavilion Roof Replacement**	$1.3M	2013	Design and Estimating	✔	✔
U.S. Army Corps of Engineers, Louisville **Cincinnati Riverfront Walnut Street Event Lawn**	$5M	2012	Design-Bid-Build	✔	✔
U.S. Army Corps of Engineers, Huntsville **Ft. Bliss Child Development Centers #2 & #3**	$20.7M	2012	Design-Build	✔	✔
U.S. Army Corps of Engineers, Savannah **Ft. Stewart Physical Fitness Facility**	$17M	2011	Design-Build	✔	✔
U.S. Army Corps of Engineers, Huntsville **Ft. Bliss Child Development Center #1**	$8M	2010	Design-Build	✔	✔
Northern Kentucky University **Exterior Renovations, Residential Housing Units**	$1.8M	2010	Design and Estimating	✔	✔
Wright-Patterson Air Force Base **DMATS Bldg 11457 Renovation**	$1.4M	2008	Design-Bid-Build	✔	✔
Wright-Patterson Air Force Base **Building 7 Renovation**	$3M	2008	Design-Bid-Build	✔	✔
Humana of Ohio, Cincinnati Office **Office Renovation**	$1.3M	2001	Design-Bid-Build	✔	✔
YWCA of Cincinnati Renovation	$3.6M	2000	Design-Bid-Build	✔	✔
TOTAL	**$138M - 23 Projects**			In association with MEGEN KZFDESIGN	

SECTION C:
References

Megen Construction References:

City of Sharonville
Jim Downton, Executive Director
jdownton@cityofsharonville.com
(513) 326-6463

Project: Sharonville Convention Center Expansion and Renovation
Megen served as construction manager for a 58,658 SF renovation and 76,760 SF addition of the Sharonville Convention Center, designed and built to accommodate larger events. The expansion included a 20,000 SF exhibition hall, meeting rooms, offices, an outdoor veranda and new main entry. The renovation included a ballroom, meeting rooms, kitchen and new technology. The parking lot was also expanded to accommodate 1,000 vehicles. The project was completed in 2012, on schedule and under budget. Currently, Megen is construction manager for an exhibit hall expansion at the convention center.

City of Cincinnati
Spence Payne, Facility Management
spence.payne@cincinnati-oh.gov
(513) 352-6398

Project: Valleyview Salt Dome Replacement
Megen-KZF was the design-build team for the replacement of the tensile fabric on the Valley View Salt Dome and installation of a larger 24" salt conveyor with a new hopper system in a pit with a pit shed for unloading the salt from semi-trucks into the salt dome.

City of Cincinnati
Marc Von Allmen, Senior Analyst
marc.vonallmen@cincinnati-oh.gov
(513) 352-4549

Project: King Records Building Stabilization
Megen was the general contractor for the stabilization of the 18,000 SF former King Records complex in Evanston, a historic landmark in the City of Cincinnati. Work included abatement/demolition of the existing roof structure, replacement of all roof joists and sheathing, installation of new TPO roof and gutter; and painting exterior gutters.

City of Cincinnati
Dave Hartinger
dave.hartinger@cincinnati-oh.gov
(513) 352-3490

Project: Vacant Buildings Barricading
Megen is the general contractor for a vacant buildings barricading contract, which involves barricading openings within 10'x6' as directed by the City of Cincinnati. Megen is on call for the City of Cincinnati 24/7 to barricade any building within the city limits due fire, eviction, vehicle accident, etc. For all calls, we are on site within an hour.

SECTION C:

References

KZF Design References:

Cincinnati Recreation Commission
Joe Schwind
joe.schwind@cincinnati-oh.gov
(513) 352-6392

Project: Hirsch Recreation Center
KZF Design provided A/E services for the renovation of the existing upper and lower floors of the building as well as an approximate 6,700 GSF addition. The addition consists of a new entrance, lobby, fitness room, multipurpose space and new egress stairs and a new hydraulic elevator in the lobby for accessibility to the lower and upper levels of the building. Site improvements include an expanded parking lot with accessible routes and handicap parking, dumpster and enclosure as well as new storm detention systems.

Hamilton County Department of County Facilities
Ralph Linne, Director of County Facilities
rwl@hamilton-co.org
(513) 946-5000

Project: Hamilton County Crime Lab
KZF provided A/E services for a new, 89,000 SF coroner's office and crime laboratory facility. The new facility, which will be located in the suburb of Blue Ash, will have three stories and a lower-level parking area. The design process included workshops and charrettes with the Coroner's staff and end users to determine functional adjacencies and efficient layout of spaces.

Cincinnati Park Board
David Prather, RA, Project Manager
(513) 368-0995

Project: Smale Riverfront Park
KZF provided master planning, architectural, civil, structural, mechanical, plumbing, and electrical engineering, street lighting and utilities services to the Cincinnati Park Board and USACE on a multi-phased riverfront park. Amenities include visitor's center, bike house, play areas, event lawn, enclosed carousel, banquet center, and restaurants. Infrastructure includes accommodation for two electrical transformers and switchgear with 20 wells, a 100-ton open loop geothermal system, water, sanitary and storm water utilities and infrastructure piping supporting three interactive water features.

Deerfield Township
Eric Reiners, Township Administrator
erein@deerfieldtwp.com
(513) 701-6974

Project: Deerfield Township Fire Stations and Civil Facilities
KZF provided site investigation, concept layouts, preliminary programming, cost estimating, criteria architecture services, and full design services to assist Deerfield Township in completing multiple facilities intended to increase the Township's service levels, provide enhanced public amenities and establish an anchor for future development of a major civic administration and parks development. Facilities include: new township administration/sheriff's office; open-air community pavilion building; service building; and two fire stations.

SECTION D:

Proposed Solutions

The City of Cincinnati is seeking market information, feasibility, costs, models, and proposed options for reducing the noise at the City of Cincinnati Police Department's target range located in Evendale, Ohio. The purpose of this evaluation is to provide the City with proposed options of varying magnitude and economies to help reduce the noise at the Police Target Range.

Prior to investigating any of the options outlined below, we propose to have an acoustician set up markers on the site and take various readings. A detailed analysis/survey would need to occur during a live fire session to accurately document the sound travel. From that data, a report will be provided with further considerations/improvements on the options outlined below. A proposed noise reduction consulting proposal by Threshold Acoustics follows the four options in this section.

It is our understanding that the target range already has, but is potentially non-functional, an elaborate lead recovery system that includes the appropriate fans and buckets. Some of the options listed below will require this system to be fully operational.

The options below are not intended to be standalone solutions, but rather offer a variety of proposed solutions that could be used in conjunction with one another if deemed appropriate.

Option A – Concrete Wall

Option A proposes to increase the limits of the concrete barrier that provides partial separation on the west side of the target range. Option A1 would be to extend the concrete barrier along the west side of the target range. Option A2 includes a concrete wall along the south. The areas to the west and south are those most populated by the public. The new wall could be constructed of poured-in-place concrete, like the existing walls, or a precast concrete wall may also be a viable solution. The new wall(s) should be of similar height (30-35 feet) to the existing adjacent walls. This recommendation does not take into effect any noise travel that would reflect toward the sky and find its way to the surrounding neighborhoods.

Option B – Tree Line

Option B proposes a more organic solution, creating zones of dense coniferous trees along the open perimeter of the target range. This option uses trees of various shapes and sizes in a staggered pattern to help mitigate any noise that travels away from the gun location. The plantings are grouped in three zones, allowing for flexibility when evaluating the best solution for noise reduction on the site.

Option C – Partial Shelter

Option C proposes a three-sided pre-engineered metal structure to reduce the noise disturbance and provide protection against mild weather elements, while reducing some of the noise travel. Baffles will be added at the ceiling of the structure, and the walls are to be insulated. Baffles and insulation will be exposed to the weather and need to be exterior rated. This solution may require some minimal lighting in the shed structure. This solution also may also require a change in operations. The intent would be for the trainee to stand under the shed structure, and not have to move back/forth to stand at appropriate distances from the target. Multiple, movable targets would be implored to practice firing at the proper distances.

SECTION D:

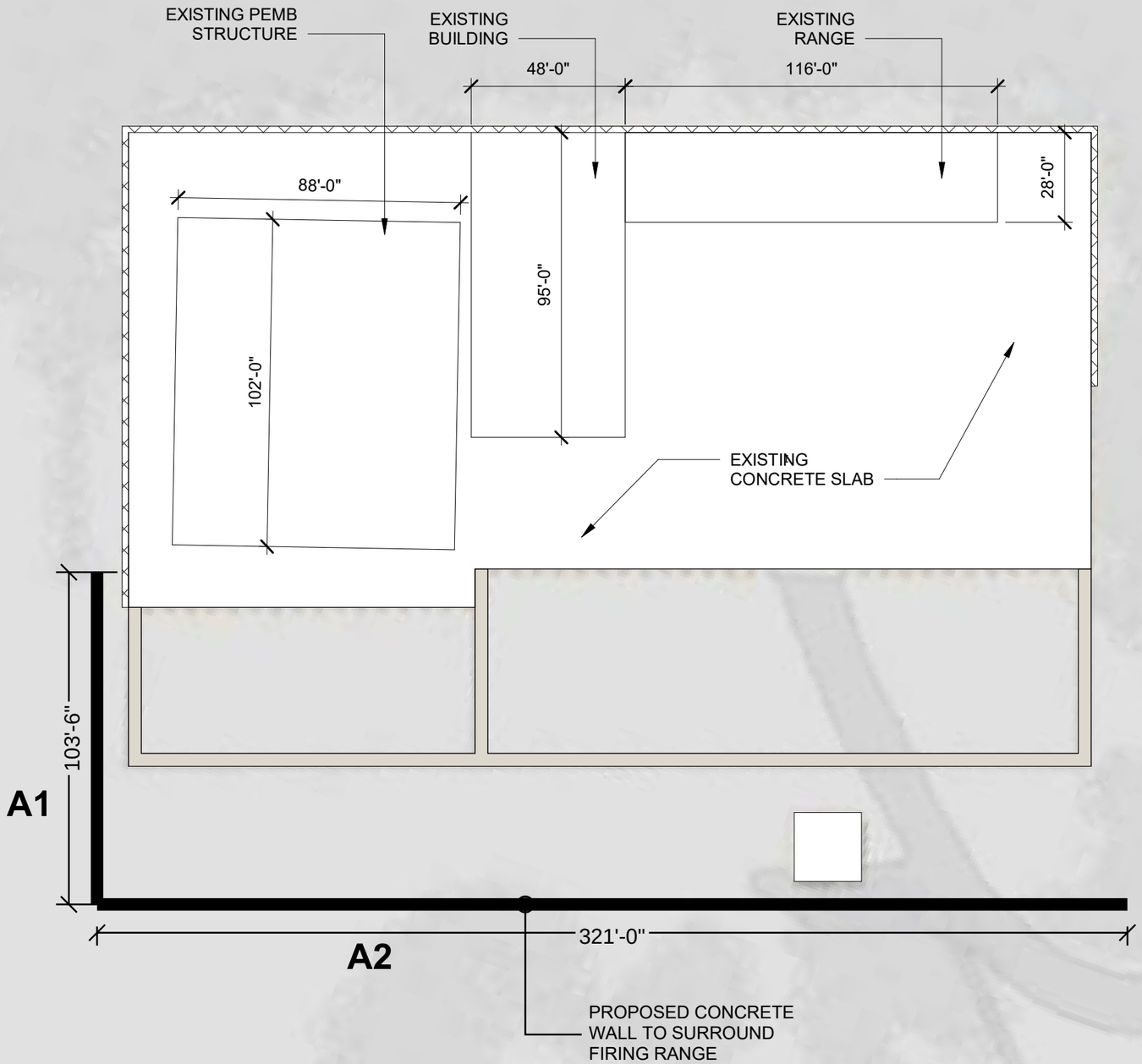
Proposed Solutions

Option D – Full Shelter

Option D proposes to build a fully enclosed pre-engineered metal building providing noise reduction and protection against weather elements. Option D1 is designed to use the existing concrete walls on the north and east side of the target range for the structure. A pre-engineered metal building will be supported off the north wall at a high point, with a slope to a low point along the south edge of the range. Baffles will be added to the ceiling of the structure and insulated wall panels will complete the enclosure. It is planned not to provide a fire suppression system, but a fire alarm system is to be included. The fully enclosed building will also need to have power, lighting, ventilation, and cooling. This option will also require an operational lead recovery system.

Option D2 addresses the existing pre-engineered metal structure on site. At this location, it is intended to utilize the existing structure and roof, but add insulated wall panels on the west, south, and east sides to mitigate the noise. The north end houses the firing targets along the existing concrete wall. By enclosing this structure, it is also planned to provide a fire alarm, power, lighting, ventilation, cooling and lead recovery system.

Option D3 proposes an extension of the existing pre-engineered metal structure, again with insulated wall panels on the west, south, and east sides. The new roof should match the existing, and also have sound baffles on the ceiling.



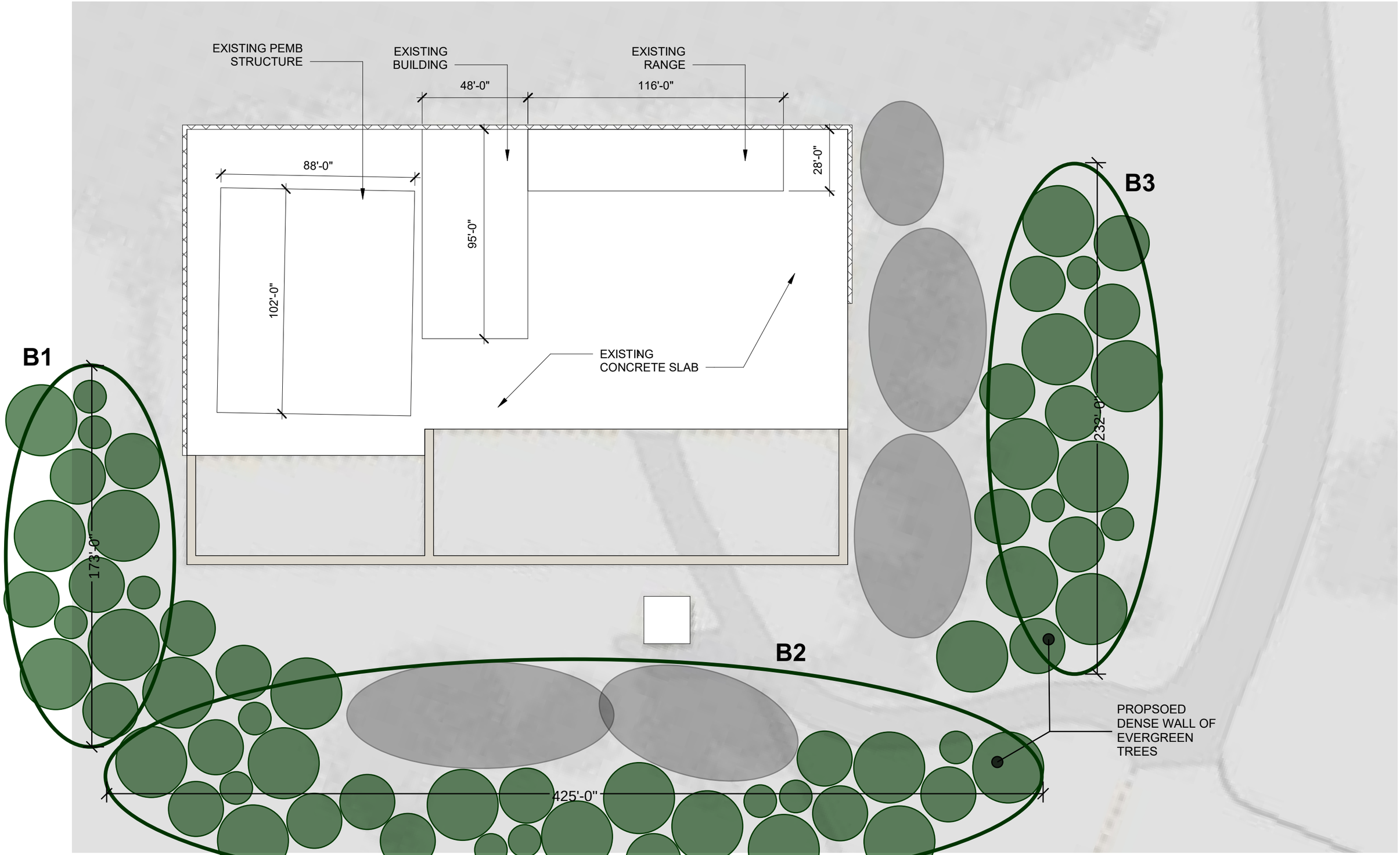
PLAN
CPD TARGET RANGE

A-101	0001.00	02.20.20

1 / A-101 **PLAN** 1" = 40'-0"

OPTION A

KZF DESIGN



PLAN
CPD TARGET RANGE

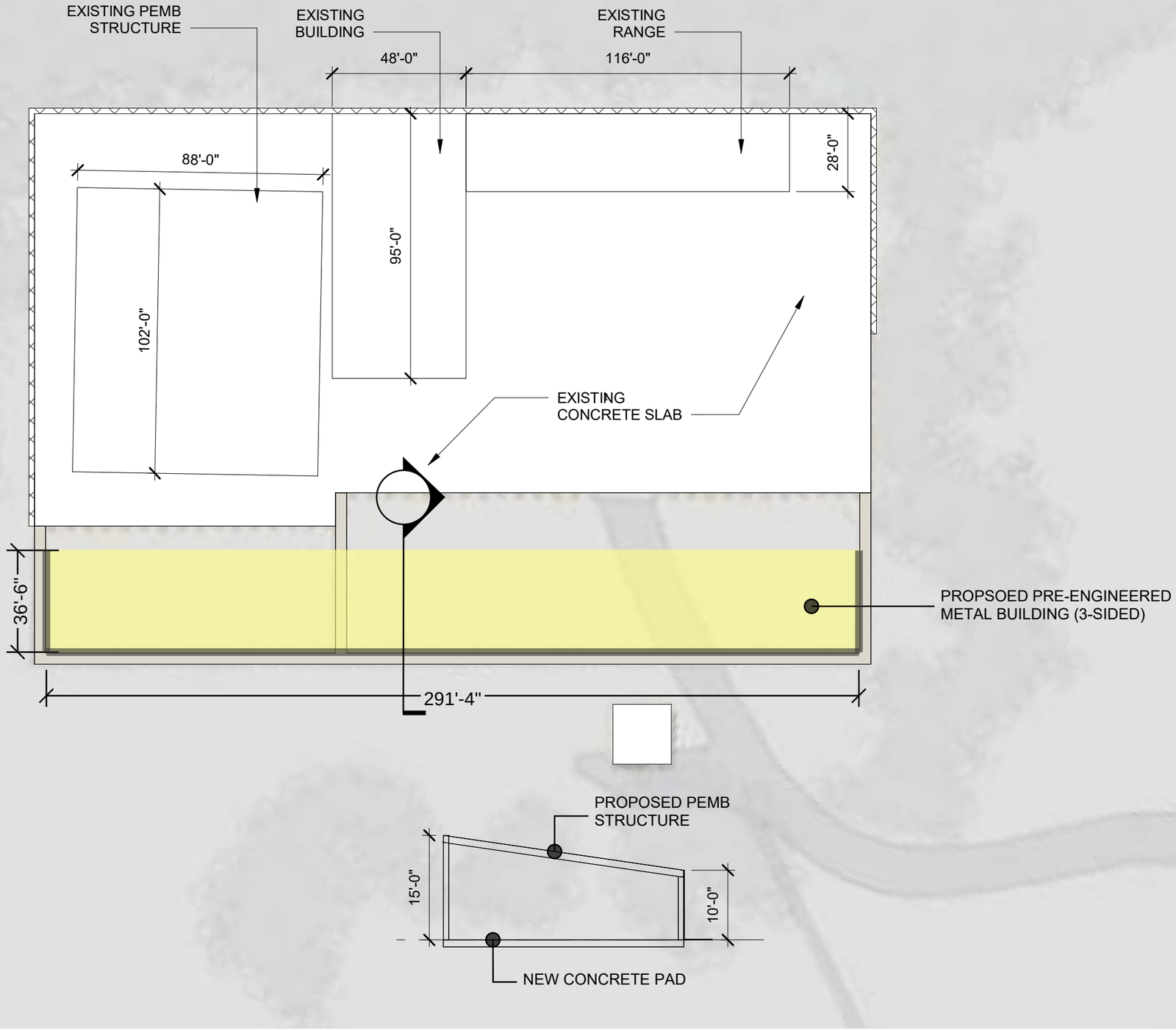
A-101	0001.00	02.20.20

1
A-101

PLAN
1" = 40'-0"

OPTION B

KZF DESIGN



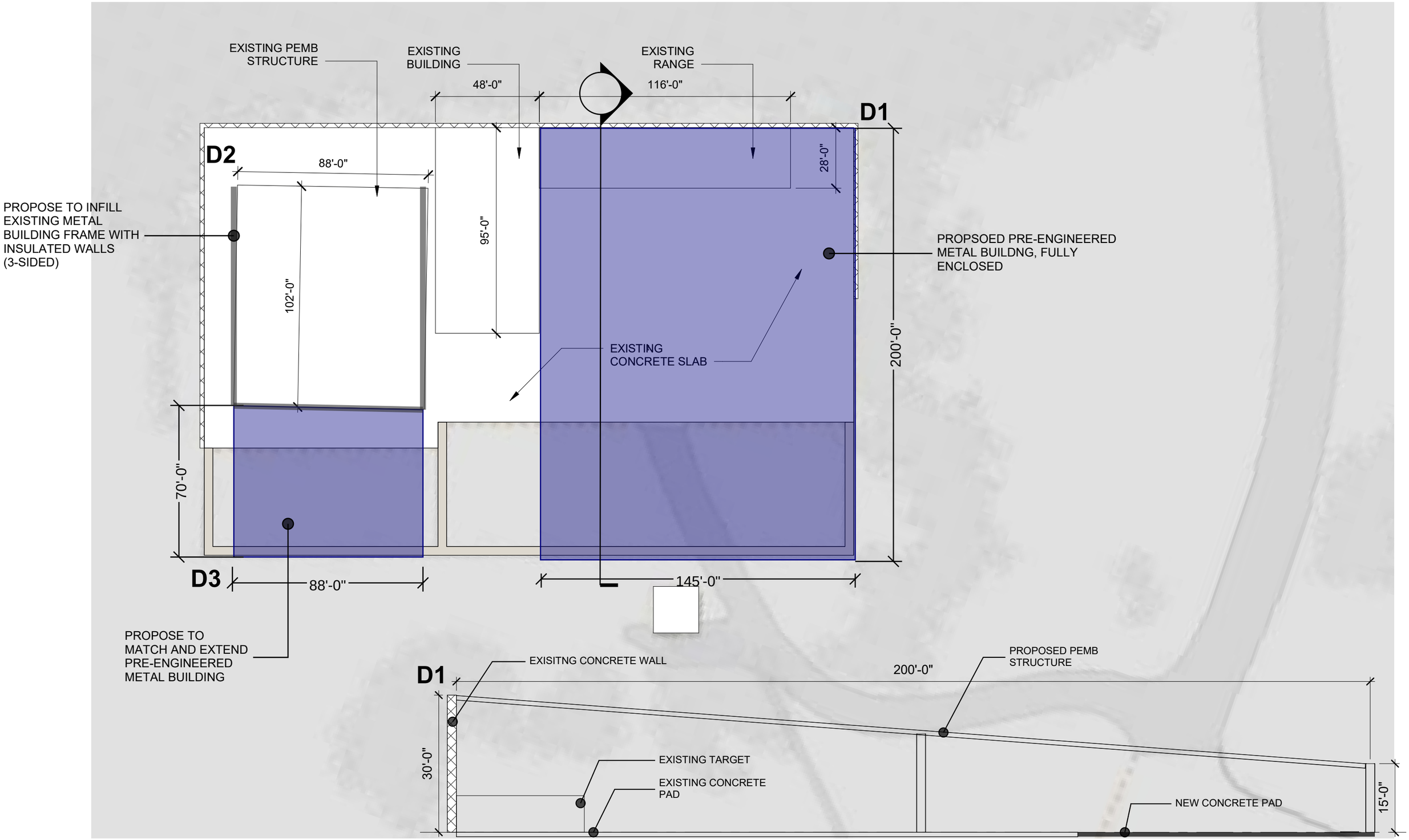
PLAN
CPD TARGET RANGE

A-101	0001.00	02.20.20

1 / A-101 **PLAN**
1" = 40'-0"

OPTION C

KZF DESIGN



PLAN
CPD TARGET RANGE

A-101	0001.00	02.20.20

1 / A-101 **PLAN** 1" = 40'-0"

OPTION D

KZF DESIGN

threshold

19 February 2020

Douglas L. Marsh
Senior Vice President
KZF Design
700 Broadway St.
Cincinnati, Ohio 45202
doug.marsh@kzf.com

RE: Noise Reduction Consulting Proposal
Noise Reduction at Cincinnati Police Department Target Range

Dear Doug:

Thanks for your interest in our services. We have appreciated the opportunity to work with you on our most recent project at University of Cincinnati, and value our relationships in the community with on-going work at the Cincinnati Contemporary Arts Center and the completion of recent work for Christ Church Cathedral in the process of their procurement of a new pipe organ.

Our prior work for firearms facilities cannot be directly publicized because of sensitivity to the issues that surround these facilities with respect to their neighbors, but we have included examples of the issues we have addressed elsewhere as evidence of our experience with this work. We have worked on indoor training facilities on the rooftops of buildings in Chicago, outdoor facilities with residential neighbors, and indoor ranges associated with sporting goods retailers that operate ranges within retail facilities. We have also worked extensively with outdoor venues for concerts and racing to limit their noise impact to their neighbors.

Our proposal focuses most heavily on the assessment and recommendations phase of the project, with enough detail to allow for budgetary pricing supported by design and engineering recommendations provided by others. Services supporting the execution of the recommendations through a building project would be provided as a future phase of work under a separate contract.

Similar Services

We have provided services of this nature most recently for a firing range in Illinois considering two independent sites. The cities where the sites are located are confidential. The range is of similar size, though the project itself is larger, with the intent to create an attached structure to support associated activities. The timeframe of the studies for each site varied between 2 and 4 months. The fees supporting each of the studies mirror the structure of services offered in this proposal. The architect with whom we are contracted can provide a reference for our services, though they will not be able to divulge the client or the location.

Reference: Philip Castillo, FAIA
Executive Vice President
JAHN
33 E. Wacker Drive, Suite 300
Chicago, Illinois 60601
312.427.7300

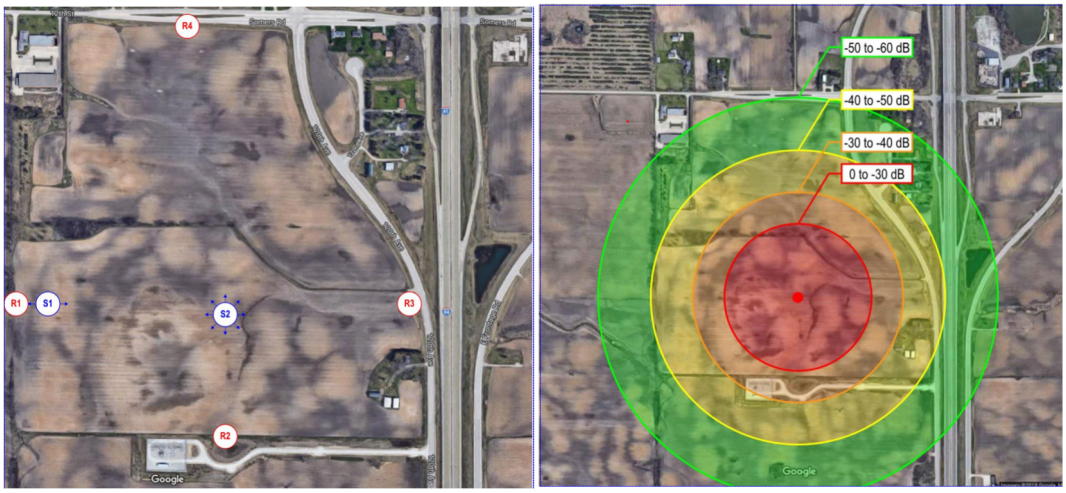
Additionally, we worked with the College of DuPage Homeland Security Education Center, where true-to-life simulation of terrorist activities, or active shooter drills were undertaken within an educational environment.

Reference: Bruce Schmiedl
Director of Facilities Planning and Development
College of DuPage
425 Fawell Blvd.
Glen Ellyn, Illinois 60137
630.942.2672
schmiedlb@cod.edu

Scope of Services

We propose the following scope of services:

- Visit the site to conduct measurements of the existing noise generated from normal use. Measurements will include:
  - Measurements taken near the firing lanes
  - Measurements taken near the property lines
  - (Optional) Measurements taken at receiving properties
- Measurement results will include:
  - The existing background noise not related to the activities at the target range.
  - The existing noise level generated from target range activities, reported as peak, max, and based on whether the measurement is in the direction of fire or off-axis.
  - Documentation of the firearm types used for the measurements and local ambient conditions (temperature, humidity, and wind direction and speed)
  - Report measurement results in a clearly understandable manner, informed by the applicable ordinance. Sample diagrams are provided below.



- Construct a mathematical model for calculation of the noise levels from activity on the range given the introduction of mitigation measures. The proposals and analysis will yield predictive diagrams as needed based on the measures implemented. Mitigation measures could include:
  - Changes to the topography of the range
  - Increased construction around the firing lanes
  - Berms constructed to obstruct the path to the neighboring property
  - Enclosure of the entire facility
- Assess the effectiveness of suitable options for mitigation and offer a recommendations relative to effectiveness. A sample is provided below:

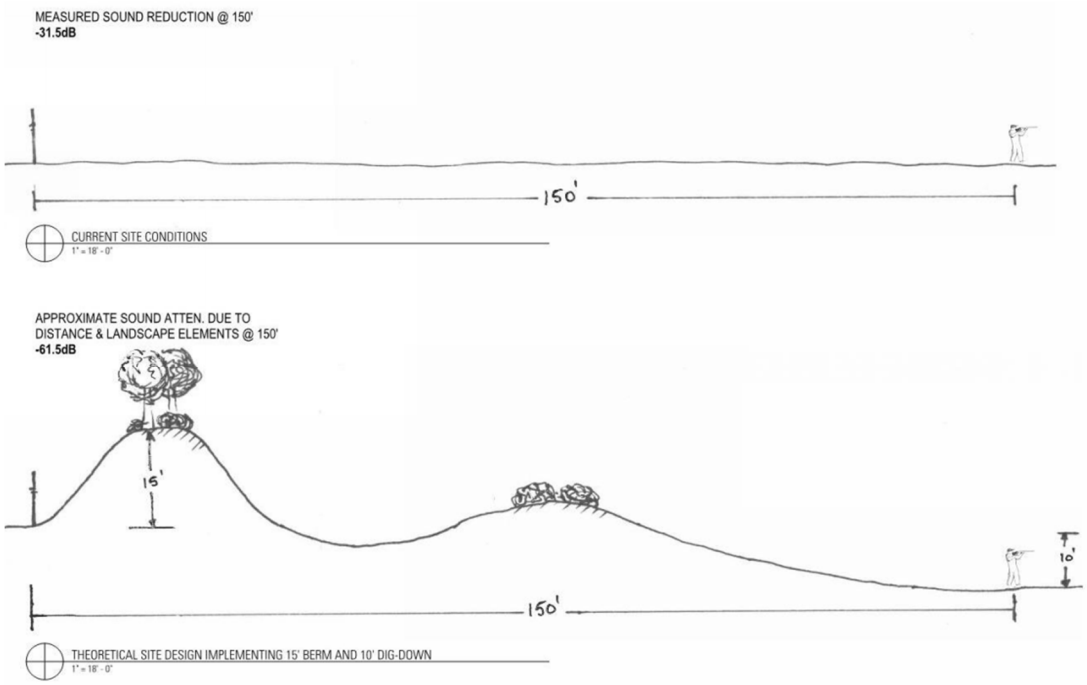


Figure 4: Theoretical Site Shaping Strategies

- Work with the design team to create conceptual diagrams that establish scope of construction to allow for construction cost estimates.
- Deliver a report of the measurements, modeling, and conceptual design report created with the design team.
- Participate in a presentation of the proposed options and discuss questions related to the options presented.
- Incorporate any final adjustments from the discussion during the final presentation for the final report.
- Conduct the entire above Scope of Work over a three-month period.
- Participation in public meetings to discuss the findings can be provide as an additional service.Fees

Our fee for the proposed scope of work will be $22,000. Customary reimbursable expenses including travel, premiums for insurance over and above our current limits, expedited delivery, rental of specialized testing equipment, construction of physical

models and mock-ups for acoustic testing, plotting and reproduction, and any project-related taxes or fees will be billed in addition to the fee at 110% of cost.

Additional Services

Services beyond those identified in the Scope of Services may be added for additional fee. The following are examples of Additional Services:

- Meetings and site visits in excess of those enumerated in the Scope of Services.
- Extension of the project schedule beyond June of 2020.
- Presentations at public meetings

Additional services may be provided on a negotiated fixed fee basis or may be provided at the following hourly rates (subject to reasonable annual escalation):

Partners	$250.
Principal Consultants	$200.
Senior Consultants	$175.
Consultants	$125-150.
Technical Staff	$100-125.

Cincinnati Police Department Target Range

Approval

19 February 2020

By signing below KZF Design ("The Client") agrees to retain Threshold Acoustics LLC ("The Consultant") and the Consultant agrees to provide consulting services for the Cincinnati Police Department Target Range as described in this proposal. This proposal in its entirety, including the attached Terms & Conditions ("Exhibit A"), forms the complete Agreement between the Client and Consultant.

CLIENT:		CONSULTANT:	
Signature:	_____	Signature:	_____
Printed Name:	_____	Printed Name:	_____
Title:	_____	Title:	_____
Date:	_____	Date:	_____
Organization:	KZF Design 700 Broadway St. Cincinnati, Ohio 45202	Organization:	Threshold Acoustics LLC 141 W. Jackson Boulevard, Suite 2080 Chicago, Illinois 60604

Our work will proceed after we receive your signed approval. We will countersign the approved proposal and return a fully executed copy for your records.

* * * * *

We appreciate the opportunity to contribute to this project for the benefit of the officers' training and for the improvements to the neighborhood. Let us know if there is additional material you require for the pursuit.

Best regards,

Scott D. Pfeiffer, FASA
Partner

Cincinnati Police Department Target Range
Exhibit 'A': Terms and Conditions
19 February 2020

1. Services

Consultant shall devote such amount of time as shall reasonably be necessary to perform the Services under this Agreement. Consultant shall perform such Services with the degree of skill, care and diligence shown by a professional performing services of a comparable scope, purpose and magnitude customarily provided in the performance of like Services.

2. Invoicing/Payment

Consultant, if applicable, shall submit invoices to Client for its Services and Reimbursable Expenses from time to time. All invoice amounts shall be due within thirty (30) days after the date of the invoice. All late payments hereunder shall bear interest at the rate of one and one-half percent (1.5%) per month from the date due until paid. Any fees incurred by the Consultant in the collection of delayed payments will be considered any additional reimbursable expense and are due under the terms of this contract.

3. Termination or Suspension

This contract is considered to be in effect from the time that the Consultant begins work until the contract is ended by completion of work or termination. The Consultant is not responsible for any damages or claims due to suspension or termination of this contract:

(a) Either party may terminate this contract for any or no reason with a prior notice of seven days. If the Client is subject to a master agreement that is terminated, the Client will notify the Consultant within 1 business day. Payments will be due to the Consultant for services rendered up to the time of the notification of termination.

(b) The Client may suspend this agreement with a prior notice of seven days. For the suspension to be valid (i.e. the contract is resumed under the original terms upon restart) it is required that all project design and/or construction activity is also suspended. Events commonly considered force majeure will result in immediate suspension. Payments will be due to the Consultant for services rendered up to the time of the notification of suspension.

(c) The Consultant may suspend this agreement with a prior notice of seven days due to non-payment by the Client more than 90 days past the original issue day of any invoice. Payments will be due to the Consultant for services rendered up to the time of the notification of suspension.

(d) The contract will terminate naturally when the Consultant has completed the scope of services and has issued the final invoice for the project. There is no expressed or implied warranty period.

4. Force Majeure

Consultant shall not be liable for any default or delay in the performance of its obligations under this agreement which is caused by fire, flood, earthquake, elements of nature or acts of God, riots, war, terrorism, civil disorders, or any other similar cause beyond the reasonable control of Consultant.

5. No Joint Venture; Independent Contractor

The parties hereto intend by this Agreement solely to effect the appointment of Consultant as an independent contractor. No other relationship is intended to be created between the parties hereto. Nothing in this Agreement shall be construed as giving any party any rights in or ownership of the other party.

6. Intellectual Property

All software, documentation, stage designs, drawings, building and room designs or any other acoustical designs or documentation and other products and inventions, as well as papers, records and other materials prepared or produced by Consultant under this Agreement (collectively, the "Developments") shall be considered the exclusive and sole property of Consultant. Notwithstanding the foregoing, Consultant hereby grants to Client an irrevocable, paid-up, royalty-free, worldwide, license to use any such Developments for this project only, free and clear of any liens, claims or other encumbrances.

7. Disclaimer/Limitation of Liability

(a) Except as otherwise expressly provided in this agreement, consultant disclaims any and all implied warranties, including the implied warranties of merchantability, fitness for a particular purpose and warranties of non-infringement. neither party shall have liability to the other for any special, consequential, exemplary, incidental or indirect damages (including, but not limited to, loss of profits, revenues, data and/or use) arising out of or in connection herewith, even if advised of the possibility thereof. Neither party shall bring any claim arising hereunder more than twelve (12) months after such claim accrues. In any event consultant's liability to client shall not exceed the fees paid to consultant by client under this agreement.

(b) Client acknowledges and understands that: (1) company is not licensed as an architectural firm in Illinois or any other state; and (2) company is only providing consulting services with respect to improving sound and acoustical quality. Company does not in any way warrant or represent any of company's advice, designs, work or other services comply with any architectural building requirements, codes, laws or otherwise, and company hereby disclaims any and all warranties or representations with respect thereto. Client waives any and all claims against company relating to architectural design or otherwise including, without limitation, professional negligence.

8. Indemnification

Client shall indemnify, defend and hold harmless Consultant from any and all claims, damages and/or losses (including attorneys' fees) arising from or in connection with Client's breach of any term, representation or covenant contained in this Agreement.

9. Prevailing Parties

In the event of a dispute or controversy pertaining to any subject matter of this Agreement, the prevailing party shall be entitled to recover all costs of enforcement or collection including, without limitation, reasonable attorneys' fees and costs.

10. Dispute Resolution

(a) In the event of a dispute or controversy pertaining to any subject matter of this Agreement, the prevailing party shall be entitled to recover all costs of enforcement or collection including, without limitation, reasonable attorneys' fees and costs.

(b) The Client agrees to bring any claims against the Consultant corporate entity, not any individual owners or employees of the Consultant firm

(c) In the event of a dispute between the Consultant and the Client and/or other involved parties regarding this Project, the process of mediation will be undertaken to resolve such disputes in accordance with the Construction Industry Mediation Rules of the American Arbitration Association. Demands for mediation initiated by the Consultant or the Client will be made within one calendar year of the termination, if terminated, or the substantial completion of the Project. The dispute resolution will occur in the general vicinity of the Project or, alternatively, another location if mutually agreed upon by all involved parties.

11. Miscellaneous

(a) This Agreement may not be amended, nor shall any waiver, change, modification, consent or discharge be effected, except by an instrument in writing executed by or on behalf of the party against whom enforcement of any amendment, waiver, change, modification, consent or discharge is sought. No waiver of any provisions shall be valid unless in writing and signed by the waiving party.

(b) If any provisions of this Agreement (or portions thereof) shall, for any reason, be invalid or unenforceable, such provisions (or portions thereof) shall be ineffective only to the extent of such invalidity or unenforceability, and the remaining provisions of this Agreement (or portions thereof) shall nevertheless be valid, enforceable and of full force and effect.

(c) This Agreement shall be governed by and construed in accordance with the internal laws of the State of Illinois.

(d) The Client may assign a third party to act as their representative in managing this project. Any directive from the Client's representative will be considered a directive from the Client.

(e) The Consultant will include the Client in any communication with other members of the design team or ownership/end user organizations. The Client will not restrict communication between the Consultant and any member of the design team or ownership/end user organizations.

(f) The Client is responsible for ensuring that the Consultant's recommendations are disseminated and reviewed by other members of the design team who are under contract to the Client. The Consultant is not responsible for any redesign efforts or reduction in quality of the project due to a lack of timely review of acoustics or AV recommendations by others on the design team.

(g) The Consultant will rely on the accuracy of any information provided by the Client or by other professionals employed by the Client, and will not conduct any quality control review of this information.

(h) The Consultant will not be restricted from publicizing their role in the project except where limited by mutually-signed written confidentiality agreements. The Consultant will credit the Client when publicizing their work.

* * * * *

SECTION E:

Estimated Cost

The following budgetary cost estimates are based upon the provided preliminary design information. Existing site/soil conditions are assumed to provide bearing for standard foundation systems. Alternative wall systems such as precast construction may reduce costs. Wall insulation material exposed to weather will be similar to a Tectum Acoustic Panel product. Lead recovery system and baffles by Owner.

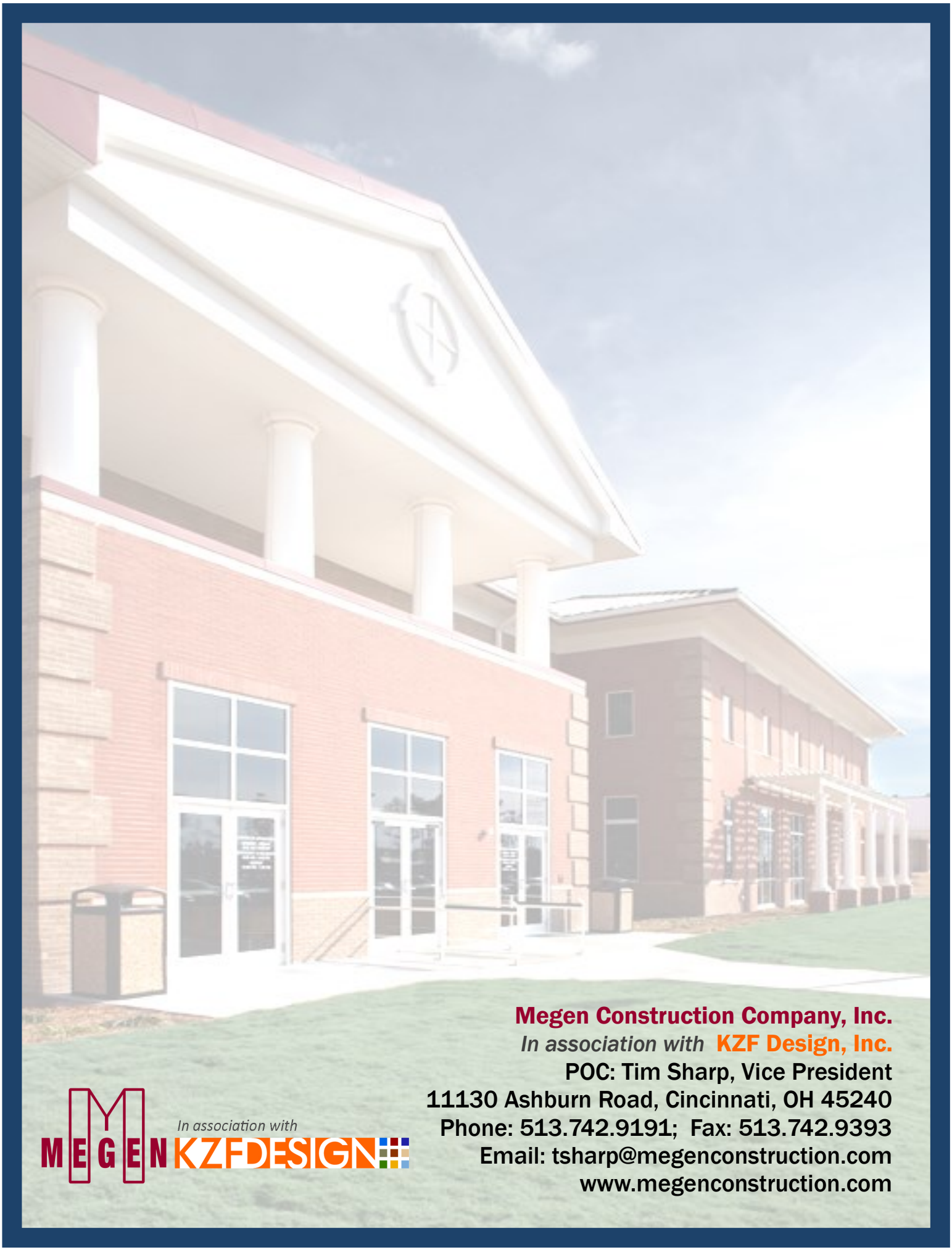
CPD TARGET RANGE NOISE REDUCTION Preliminary Estimate of Budgetary Costs for Options:	
OPTION	**ESTIMATED COST**
Option A1 (cast-in-place reinforced concrete wall system)	$450,000 to $550,000
Option A2 (cast-in-place reinforced concrete wall system)	$1,100,000 to $1,320,000
Option B1	$25,000 to $30,000
Option B2	$45,000 to $55,000
Option B3	$28,000 to $35,000
Option C	$810,000 to $975,000
Option D1	$2,270,000 to $2,715,000
Option D2	$800,000 to $960,000
Option D3	$975,000 to $1,170,000

SECTION F:

Estimated Timeline

The following conceptual project timelines are based upon the provided preliminary design information. The timelines assume design and construction time schedule only. Procurement timelines must be factored into the schedules.

CPD TARGET RANGE NOISE REDUCTION Estimated Timeline for Options:	
OPTION	**ESTIMATED TIMELINE**
Option A1	6 to 8 months
Option A2	8 to 10 months
Option B1	4 to 6 months
Option B2	5 to 7 months
Option B3	4 to 6 months
Option C	12 to 15 months
Option D1	14 to 16 months
Option D2	10 to 12 months
Option D3	10 to 12 months



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