



2022-2023 DESIGN
DRAFTING PROBLEM
COMMUNITY RESTORATIVE
JUSTICE CENTER

The Design Drafting Competition is a contest designed for Senior High School and College level students. The contest provides recognition to students for creative design, successful problem solving and craftsmanship in preparing architectural drawings.

Entries are evaluated for detail, accuracy and originality of work. Objectives of the contest are to introduce the student to the construction industry in a positive and challenging manner, while fostering a sense of self-worth and building confidence.

Mentoring programs between students and educators are also encouraged. Each local sponsor is furnished with a "Design Problem" that is designed by a licensed Architect or Engineer and is generic enough to meet the needs of all areas of the US and our international affiliates.

Design Problem and Project Description

Community Restorative Justice Center

A tech giant recently built a new headquarters building near Small Town and a lot of new people have moved into the area which has expanded this small town into a regional hub. The increase in new community members has also increased the demographic diversity in the area, bringing together many different economic, cultural, racial, and political backgrounds. Small Town leadership – Mayor and Town Council – have noticed increasing social tensions as the population has grown and diversified. As they've listened to concerns from both long-term residents and newcomers, they have realized they need to help the community find common ground and want to build a dedicated place for this in the form of a Community Restorative Justice Center.

This Restorative Justice Center will serve as a safe and equitable space within the community with spaces for community events, police outreach, and youth court. Community/outreach policing, or community-oriented policing (COP), is a strategy of policing that focuses on developing relationships with community members. It is a philosophy of full-service policing that is highly personal with the goal for the police to build strong relationships directly with the community.

Youth/teen court is a restorative justice program for youths (ages 12-17), giving them a second chance, yet holding them accountable for their actions. The youth/teen court uses positive peer pressure to ensure that young people who commit minor offenses avoid further contact with the justice system and give back to the community. As a complement to this restorative justice program, a therapy dog will be available to help ease anxiety of those experiencing the youth court.

Spaces within the building should be flexible so that people can change the space to be more supportive of their restorative peacemaking process. Incorporation of biophilic design – design tactics which increase building occupant connectivity to the natural environment using direct nature, indirect nature, and space and place conditions – is beneficial in a restorative justice environment, and can include the ability to rearrange furniture, open/close windows or shades modulating access to light and air or adjusting acoustics and sound. Biophilic design often helps to modulate the fight or flight responses to conflict by reducing stress at the emotional and physiological levels.

The materials used in the building (exterior and interior) should be reflective of the character of the community and the climate region.

All interior spaces and the site should be accessible to people with physical, visual, and/or auditory impairment.

Requirements for the New Center

- The building is to be at ground level and 1-story. This allows the building to be accessible without costly construction of including an elevator. The building is all about how you experience the building inside and out.
- Somewhere outside but near the front entry there is to be a flag pole with a light to shine on the flag.
- 1 Mechanical room for the building (200 square feet)
- 1 Electrical room for the building (120 square feet)

- **FRONT/ENTRY/LOBBY AREA** (approximately 1500-2500 square feet)
 - o Should have an entry vestibule
 - o Reception desk: this can be a place for a person to be seated or it can be something creative like A.I. Interactive Welcome Hologram.
 - o The lobby can be set up as an open meeting space and can move furniture as required to do this.
 - o Provide an area for indoor recreation event for partners or small group games (i.e. foosball, ping pong, board games etc)

- Public Restrooms (ADA accessible) approximately 80 square feet each.
 - o 4 single user- unisex restrooms.

- **COMMUNITY MEETING FLEX SPACE**
 - o Dividable Multi-purpose room that is approximately 1000-1200 square feet with a folding partition to divide the room equally.
 - o Two storage rooms (approximately 150-200 square feet)
 - o Two Audio/Visual closets (approximately 10-20 square feet)
 - o Furnishings (i.e. tables, chairs, lectern, etc)

- **COMMUNITY OUTREACH POLICE – 24/7 Access and Staffing**
 - o It is open and connected the lobby.
 - o Shared workspace for 2 officers. This space needs to be closed off for private conversations between an officer and community members and/or youths.
 - o K9 room with an exterior access for the door. The K9 room will share with the Handling Officer and will require a desk to work at. Approximately 120-150 square feet. The exterior kennel and run are to be secured.
 - o Equine Room (1 horse). This room can only be accessed from the outside so the horse and be unloaded from the trailer and into the “office”. It will have a stable door like appearance from inside so community members, youths and children can see and visit the horse when not outside for an event. Horses have personalities, so keep in mind they do like to kick walls with their front hooves for attention. These walls needs to have durable materials and wall construction.
 - o 2 Storage rooms
 - 1 for the officers supplies, flyers, pamphlets etc
 - 1 for K9 and horse feed, treats and grooming supplies. This space should have a counter with a sink and some cabinets for storage.

- **YOUTH / TEEN COURT**
 - o Separate lobby and waiting area to accommodate 6-8 people and be connected to the main lobby.
 - o Mediation Suite
 - Will need a Justice Facilitator’s desk
 - Joint session table in the middle of the room for 6-8 person seating
 - Audience Seating to accommodate 20 people

- Audio/Visual Closet
- Presentation screen (projector & projector screen or monitors)
- Three (3) Caucus rooms, with a table and seating for 4-6 people.
- Therapy Dog office connected to both the court lobby and the main lobby.
 - This space is to have a desk for 1 person and a place for the dog eat/drink/sleep.

Required Items for Submission

Design Drawing General Requirements (must be included in each drawing):

Titleblock matching the format provided in the contest guidelines. All information in the titleblock must be complete. The standard scale will be 1/4" = 1'-0" unless otherwise noted.

Include the Entry Code number as assigned by your NAWIC Chapter Sponsor or Individual Sponsor. Do not list your name on the drawings. All units shall be in the English system – no Metric system.

Itemized Points from Judging Form (Total of 185 Points)

Design Narrative/Concept (20 Points)

Describe your design, including but not limited to unique design features, innovative construction, sustainable materials or reuse practices, references that go beyond the basic project requirements, and/or aid in learning about community restorative justice. The narrative shall be 400-500 words, typed and submitted in 8.5 x 11 format with the code number as assigned by your NAWIC Chapter Sponsor or Individual Sponsor. Do not include your name. Staple multiple sheets together. Remember that spelling and grammar are considered when awarding points.

Required Drawings (A-1 thru A-5):

A-1- Formal Cover Sheet (25 pts)

Include the following:

Titleblock

Project Title and Location map (location may be fictional)

Drawing Index

Square footage

How many stories (floors)

Sheet A-2 Floor Plans (35 Points) (Choose 1 scale: 1/4" = 1'-0" or 1/8" = 1'-0")

Titleblock

Show walls, windows, front, entry, door swings, and all other openings.

Show cabinetry, plumbing fixtures, appliances and furniture (desks, chairs etc.).

Include the name of each room, and include all relevant dimensions

*Show wall section cut marks if you choose the optional drawing for wall sections

Sheet A-3 Reflected Ceiling Plan (25 points) (Scale to match the selected scale for A-2 drawing)

Height of each ceiling from above finish floor (AFF)

Show placement of overhead lighting, ceiling grid layout or drywall hatch, smoke detectors, a/v speakers, and other ceiling penetrations (i.e. skylights).

Sheet A-4 Interior Elevations (30 Points) (Scale $3/8" = 1'-0"$)

Titleblock

Four (4) interior elevations are the required minimum.

Show all interior features including, but not limited to, doors, windows, cabinetry, furniture, and more. Include a "Material Legend" for all materials used and denoted by hatches and/or colors.

Each elevation must be labeled per room or space.

Sheet A-5 Electrical Lighting and Power plan (25 Points) (Scale to match the selected scale for A-2 drawing) (Do not show ceiling grid or drywall hatch)

Show switches, electrical outlets, data outlets, lighting fixtures, custom light fixtures, wireless access points, projectors, projector screens, a/v equipment, security cameras. (If your design calls for any or all listed or not listed, it is to be shown in the Electrical Symbol Legend.)

OPTIONAL DRAWINGS FOR ADDITIONAL POINTS

OPTIONAL A-6 DRAWINGS (10 Points) (Choose One Only)

A-6a/ Covered Picnic/gazebo gathering area (located at side or rear of the building)

A-6b/ Path of Honor with outdoor lighting (front entry location)

A-6c/ Two (2) Wall Sections showing foundations, structure, and construction materials. All construction materials are to be called out and important dimension, i.e. window sill, window height, ceiling height

A-6d/ Provide a 3D axonometric rendered section

OPTIONAL A-7 Drawings (15 Points) (Choose One Only)

A-7a/ Construct & photograph your original scale model

A-7b / Recreation area (i.e. basketball, bocce ball, shuffleboard, pickle ball, corn hole, etc, located at the side or the rear of the building) (Select the scale to best fill the page, this can be an architectural or engineering scale)

A-7c/ Floor finish plan of entry lobby with material and color board selection with all materials labeled with where they are found (i.e. floor, wall base, paint, wall covering, ceiling.) (Photograph material & color board)

A-7d/ Specification for a Flag pole (provide 3 manufacturers minimum)

RESOURCES

PROCORE:

This year NEF has partnered with Procore construction management software solutions to provide real-time industry experience to students and instructors alike. Procore offers a FREE certification program for students at: <https://education.procore.com/procore-certification-student>. This free certification will allow students and instructors to have an opportunity to learn how to use the Procore software and obtain the industry sought after certification. The instructor may also explore the other certifications for their students. All certifications are free and available on the Procore website. NEF has set up our own Procore site for the 2022-2023 Design Drafting Competition.

1. Students can submit questions directly using the RFI tool in the Procore platform (RFI is an acronym for “Request for Information” which is a formal Q&A process). Allow 2-3 days for NEF to respond and post an answer to the Procore website.
2. Check the Procore platform regularly for updates or special announcements. Review the RFI section often to see if your question has been covered before submitting duplicate questions.
3. All PDF and CAD files for this project may be found under the Documents tab in the Procore platform.

DESIGN PROBLEM:

Youth/Teen Court:

https://en.wikipedia.org/wiki/Teen_court

<https://www.nmteencourt.com/what-is-a-teen-court.html>

<https://www.wksu.org/government-politics/2022-03-11/in-akron-the-chief-cuddle-officer-holds-court>

Community Policing:

<https://www.discoverpolicing.org/explore-the-field/what-is-community-policing/>

<https://k9officers.org/meet-the-k9s/>

Horse Stables:

<https://www.oldtownbarns.com/our-work/equestrian/stable-interiors/>

Attached resources:

Biophilic Design

Space layout-detailing