U.S. AIR FORCE CIVIL ENGINEER CENTER (AFCEC)

FACILITIES DYNAMIC PROTOTYPES DESIGN FOR FIRE STATION - HEADQUARTERS

SUBMISSION:
REVISED FINAL
DATE:
DECEMBER 2013
PROJECT INFORMATION: FACILITIES DYNAMIC PROTOTYPES DESIGN FOR FIRE STATION

SCOPE OF THE FACILITY:

- THE FIRE STATION'S MISSION PROVIDES FIRE PROTECTION TO INSTALLATION FLIGHTLINES, STRUCTURAL FACILITIES AND FIRE PREVENTION EDUCATION AND TRAINING.
- THE FACILITY WILL HOST AN APPARATUS BAY FUNCTION, A DAY ROOM & RESIDENTIAL FUNCTION, A TRAINING & ADMINISTRATIVE FUNCTION, AN EMERGENCY CONTROL CENTER (DISPATCH FUNCTION), AND VARIOUS SITE RELATED SUPPORT FUNCTIONS. (DIAGRAM 1)

CLASSES OF STATIONS: THERE ARE TWO CLASSES OF FIRE STATIONS.

- HEADQUARTERS (OR MAIN) STATIONS GENERALLY HOUSE THE FIRE CHIEF AND MOST OF THE GENERAL ADMINISTRATIVE FUNCTIONS.
- SATELLITE STATIONS ARE LOCATED THROUGHOUT THE INSTALLATION TO PROVIDE ADEQUATE RESPONSE TIME COVERAGE, AS APPROPRIATE.

TYPES OF STATIONS: FUNCTIONALLY, THERE ARE THREE TYPES OF FIRE STATIONS.

- COMBINATION: STRUCTURAL/ARFF STATIONS
- STRUCTURAL STATIONS PROVIDE PROTECTION TO FACILITIES
- ARFF: AIRCRAFT RESCUE FIREFIGHTING STATIONS PROVIDE FIRE PROTECTION TO FLIGHTLINES AND AIRCRAFT

FIRE STATION BUBBLE DIAGRAM: THIS ILLUSTRATIVE DIAGRAM BELOW DOES NOT REPRESENT MANDATORY OR EVEN SUGGESTED LAYOUTS AND IS PROMPTED TO ILLUSTRATE THE RELATIVE SIZES OF THE FUNCTIONAL SPACES ALONG WITH ACCEPTABLE ADJACENCIES. MINOR SUPPORT AREAS, INFRASTRUCTURE AND SITE SUPPORT FUNCTIONS HAVE BEEN INTENTIONALLY LEFT OUT IN AN EFFORT TO SHOW MAJOR ADJACENCY REQUIREMENTS. ALL REQUIRED SPACES SHOULD BE DESIGNED ON A CASE BY CASE BASIS.
THE PREDESIGN AREA MATRIX PROVIDES THE PROGRAMMATIC AND SQUARE FOOTAGE REQUIREMENTS FOR EACH FACILITY.
GENERAL NOTES
1. MODULES ARE DESIGNED TO CORRESPOND WITH A LARGE HEADQUARTERS FIRE STATION AND ARE INTENDED TO FLEX TO ACCOMMODATE DIFFERENT BUILDING SIZES.
2. EVERY WALL IS GENERIC UNLESS SPECIFICALLY NOTED.
3. EVERY WALL IS A PLACE HOLDER.
4. AS THE MODULES ARE COMBINED TO CREATE A FACILITY, DISCRETION SHOULD BE USED AS TO WHICH WALLS NEED TO BE MOVED, ADDED OR REMOVED.
5. IF NO WALL IS PRESENT, IT IS THE DESIGN INTENT TO LEAVE THAT SPACE OPEN TO ADJACENT SPACES WITHIN THE FACILITY.
6. ALL FURNITURE IS A PLACE HOLDER UNLESS SPECIFICALLY NOTED.
7. CONFIRM REQUIREMENTS FOR SOUND TRANSMISSION CLASS (STC) RATINGS OF WALLS, CEILINGS & FLOORS WITH THE AIR FORCE DESIGN GUIDE.
8. DESIGN AND OCCUPANT LOADS BASED ON SHIFTS, NUMBER OF COMPANIES AND/OR STAFFED VEHICLES - REFERENCE BASE REQUIREMENTS FOR EXACT LOADS.
9. MODULES DESIGNS ARE BASED ON THE UNIFIED FACILITIES CRITERIA GUIDELINES. THIS UFC IS INTENDED AS A SOURCE FOR BASIC ARCHITECTURAL AND ENGINEERING INFORMATION FOR ALL INDIVIDUALS INVOLVED IN PLANNING, DESIGN, EVALUATION OF FIRE STATIONS. CONSULT GUIDELINES FOR EVALUATION, CLARIFICATION, PLANNING AND PROGRAMMING.

APPARATUS BAY NOTES
1. THE AIR FORCE WILL DETERMINE ON A CASE BY CASE BASIS BASED ON CLIMATIC CONDITIONS HOW TO CONDITION AND HEAT THE APPARATUS BAY.
2. APPARATUS BAYS HAVE THREE POSSIBLE CONFIGURATIONS:
   - CONFIGURATION "A" - TRUCK PARKED BETWEEN TWO WALLS.
   - CONFIGURATION "B" - TRUCK PARKED BETWEEN A WALL AND ANOTHER TRUCK.
   - CONFIGURATION "C" - TRUCK PARKED BETWEEN TWO OTHER TRUCKS.

FLOOR FINISH LEGEND
- SEALED CONCRETE
- GYPSUM BOARD
- CARPET
- CERAMIC TILES
- RUBBER SHEET
- HOSE BIB

CEILING LEGEND
- 2'X2' SUPPLY DIFFUSER
- 2'X2' LIGHT
- 2'X2' ACOUSTICAL TILE
- 2'X2' LIGHT
- SPOT ELEVATION MARKER
- OPTICAL BOARD
- PENDANT LIGHT
- RECESSED CAN LIGHT
- LOW BAY LIGHTING
- OPEN TO STRUCTURE
- SMALL PENDANT LIGHT

MODULES DESIGNS ARE PER THE UNIFIED FACILITIES CRITERIA

911 Central Parkway N., Suite 425 San Antonio, TX 78323
501 North Broadway, St. Louis, Missouri 63102-2121

MO101
DECEMBER 2013
Designed By: 
Checked By: 

Drawing Title: MODULE - MEDIUM VEHICLE APPARATUS BAYS

Drawing No. JDG13106

 Jacobs Project No: 070213106

Drawn By: 

1/16" = 1'-0"
GENERAL NOTES

1. MODULES ARE DESIGNED TO CORRESPOND WITH A LARGE VEHICLE SIZE AND ARE INTENDED TO FLEX TO ACCOMMODATE DIFFERENT BUILDING SIZES.

2. EVERY WALL IS GENERIC UNLESS SPECIFICALLY NOTED.

3. EVERY WALL IS A PLACE HOLDER.
   VEHICLE SHOWN IS FOR GRAPHIC CLARITY ONLY. DIMENSIONS SHOWN ARE THE ACTUAL VEHICLE SIZES.

4. IF NO WALL IS PRESENT, IT IS THE DESIGN INTENT TO LEAVE THAT SPACE OPEN TO ADJACENT SPACES WITHIN THE FACILITY.

5. CONFIRM REQUIREMENTS FOR SOUND TRANSMISSION CLASS (STC) RATINGS OF WALLS, CEILINGS & FLOORS WITH THE AIR FORCE DESIGN GUIDE.

6. ALL FURNITURE IS A PLACE HOLDER UNLESS SPECIFICALLY NOTED.

7. DESIGN AND OCCUPANT LOADS BASED ON SHIFTS, NUMBER OF COMPANIES AND/OR STAFFED VEHICLES - REFERENCE BASE REQUIREMENTS FOR EXACT LOADS.

8. DESIGN LIGHTING FIXTURES AND LAYOUTS ARE NOTIONAL - IN INFORMATION FOR ALL INDIVIDUALS INVOLVED IN PLANNING, DESIGN OR EVALUATION OF FIRE STATIONS. CONSULT GUIDELINES FOR EVALUATION, CLARIFICATION, PLANNING, AND PROGRAMMING.

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   - CONFIGURATION "A" - TRUCK PARKED BETWEEN TWO WALLS.
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   - CONFIGURATION "C" - TRUCK PARKED BETWEEN TWO OTHER TRUCKS.

FLOOR FINISH LEGEND

- SEALED CONCRETE
- CARPET
- CERAMIC TILE
- RUBBER SHEET
- HOSE BIB

CEILING LEGEND

- 2 X 2 ACOUSTICAL TILE
- CEILING FAN
- SMALL FUME LIGHT
- LOW BAY LIGHTING
- SUPPLY DUCT
- OPEN TO STRUCTURE
- SPOT ELEVATION MARKER
- REDUCED CAN LIGHT
- OPTIC FRAMING BOARD
- 24" LIGHT
- 24" LIGHT
- 2 FT. SUPPLY DUCT
- PENDANT LIGHT
1. MODULES ARE DESIGNED TO CORRESPOND WITH A LARGE HEADQUARTERS FIRE STATION AND ARE INTENDED TO FLEX TO ACCOMMODATE DIFFERENT BUILDING SIZES.

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3. EVERY WALL IS A PLACE HOLDER.

4. AS THE MODULES ARE COMBINED TO CREATE A FACILITY, DISCRETION SHOULD BE USED AS TO WHICH WALLS NEED TO BE MOVED, ADDED OR REMOVED.

5. IF NO WALL IS PRESENT, IT IS THE DESIGN INTENT TO LEAVE THAT SPACE OPEN TO ADJACENT SPACES WITHIN THE FACILITY.

6. ALL FURNITURE IS A PLACE HOLDER UNLESS SPECIFICALLY NOTED.

7. CONFIRM REQUIREMENTS FOR SOUND TRANSMISSION CLASS (STC) RATINGS OF WALLS, CEILINGS & FLOORS WITH THE AIR FORCE DESIGN GUIDE.

8. DESIGN AND OCCUPANT LOADS BASED ON SHIFTS, NUMBER OF COMPANIES AND/OR STAFFED VEHICLES - REFERENCE BASE REQUIREMENTS FOR EXACT LOADS.

9. MODULES DESIGNS ARE PER THE UNIFIED FACILITIES CRITERIA GUIDELINES (UFC 4-730-10 JUN 2006). THIS UFC IS INTENDED AS A SOURCE FOR BASIC ARCHITECTURAL AND ENGINEERING INFORMATION FOR ALL INDIVIDUALS INVOLVED IN PLANNING, DESIGN OR EVALUATION OF FIRE STATIONS. CONSULT GUIDELINES FOR EVALUATION, CLARIFICATION, PLANNING, AND PROGRAMMING.

FLOOR FINISH LEGEND

- SEALED CONCRETE
- CARPET
- CERAMIC TILE
- RUBBER SHEET
- FLOOR DRAIN
- HOSE Bib

CEILING LEGEND

- 2'X2' ACOUSTICAL TILE
- SPOT ELEVATION MARKER
- RECESSED CAN LIGHT
- GYPSUM BOARD
- CEILING FAN
- 2X2 LIGHT
- SMALL PENDANT LIGHT
- 2X4 LIGHT
- LOW BAY LIGHTING
- 2X4 SUPPLY DIFFUSER
- OPEN TO STRUCTURE
- PENDANT LIGHT

APPARATUS BAY NOTES

1. ALL BAYS MUST ACCOMMODATE THE LARGEST VEHICLE AND CONTAIN REQUIRED SUPPORT UTILITIES PER THE UFC.

2. DRIVE THROUGH BAYS ARE PREFERABLE.

3. BOLLARDS ARE REMOVABLE AND ARE NOTIONALLY REPRESENTED. LOCATION OF BOLLARDS SHOULD BE CASE SPECIFIC AND FOLLOW UFC GUIDELINES.

4. HEIGHT OF BAYs DETERMINED BY VEHICLE AND EQUIPMENT REQUIREMENTS PER THE UFC.

5. THIS IS A NOTIONAL CONFIGURATION/LAYOUT.

APPARATUS BAY MODULE - FLOOR PLAN

1/16" = 1'-0"
GENERAL NOTES
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APPARATUS SUPPORT NOTES
1. ALL CEILINGS ARE A MIN. OF 9'-0" UNLESS OTHERWISE NOTED.
2. ADJACENCIES BETWEEN INFECTIOUS CONTROL, EQUIPMENT WASH AND DISINFECTION, AND PROTECTIVE CLOTHING LAUNDRY SHOULD BE MAINTAINED. INFECTIOUS CONTROL REQUIRES DIRECT ACCESS TO EXTERIOR AND APPARATUS BAYS.
3. ARFF FACILITIES REQUIRE EXTERIOR COVERED STORAGE - VERIFY PROGRAM AND SQUARE FOOTAGE REQUIREMENTS AS NEEDED.

FLOOR FINISH LEGEND
- SEAL ED CONCRETE
- CABINET
- CERAMIC TILE
- RUBBER SHEET
- FLOOR DRAIN
- HOSE BIB

CEILING LEGEND
- SPOT ELEVATION MARKER
- RECESSED CAN LIGHT
- CEILING FAN
- SMALL PENDANT LIGHT
- LOW BAY LIGHTING
- OPEN TO STRUCTURE
- PENDANT LIGHT

APPARATUS SUPPORT MODULE - FLOOR PLAN

APPARATUS SUPPORT MODULE - REFLECTED CEILING PLAN

APPARATUS SUPPORT MODULE - AXON

DECEMBER 2013

NOT FOR CONSTRUCTION

911 Central Parkway N., Suite 425 San Antonio, TX 78233

FIRE STATION HEADQUARTERS
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2. DESIGN AND OCCUPANT LOADS BASED ON SHIFTS, NUMBER OF COMPRESSED AIRCRAFT-RELATED UNITS - REFERENCE BASE REQUIREMENTS FOR EXACT LOADS.

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MATERIALS

1. MODULES ARE DESIGNED TO CORRESPOND WITH A LARGE HEADQUARTERS FIRE STATION AND ARE INTENDED TO FLEX TO ACCOMMODATE DIFFERENT BUILDING SIZES.

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1. Modules are designed to correspond with a large headquarters fire station and are intended to flex to accommodate different building sizes.

2. Every wall is generic unless specifically noted.

3. Every wall is a placeholder.

4. As the modules are combined to create a facility, discretion should be used as to which walls need to be moved, added or removed.

5. If no wall is present, it is the design intent to leave that space open to adjacent spaces within the facility.

6. All furniture is a placeholder unless specifically noted.

7. Confirm requirements for Sound Transmission Class (STC) ratings of walls, ceilings & floors with the Air Force Design Guide.

8. Design and occupant loads based on shifts, number of companies and/or staffed vehicles - reference base requirements for exact loads.

9. Modules designs are per the Unified Facilities Criteria Guidelines. (UFC 4-730-10 Jun 2006). This UFC is intended as a source for basic architectural and engineering information for all individuals involved in planning, design, or evaluation of fire stations. Consult guidelines for evaluation, clarification, planning, and programming.

Agent Storage Notes:

1. Quantity of agent storage to be determined by user & mission critical requirements.

FLOOR FINISH LEGEND
- Sealed Concrete
- Carpet
- Ceramic Tile
- Rubber Sheet
- Floor Drain
- Hose Bib

CEILING LEGEND
- 2x2 Acoustical Tile
- 2x2 Supply Diffuser
- Open To Structure
- 2x2 Pendant Light
- 2x2 Recessed Can Light
- Ceiling Fan
- 2x2 Low Bay Lighting
- Spot Elevation Marker
- Ordinary Board
- Small Pendant Light
- Open To Structure

GENERAL NOTES
- Modules are designed to correspond with a large Headquarters fire station and are intended to flex to accommodate different building sizes.
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FLOOR FINISH LEGEND

- Sealed Concrete
- Carpet
- Ceramic Tile
- Rubber Sheet
- Floor Drain
- Hose Bib

CEILING LEGEND

- 2 X 2 Acoustical Tile
- Spot Elevation Marker
- Recessed Can Light
- Gypsum Board
- Ceiling Fan
- 2 X 4 Light
- Small Pendant Light
- Low Bay Lighting
- 2 X 2 Supply Diffuser
- Open to Structure
- Pendant Light

DAY ROOM AND RESIDENTIAL NOTES

1. Maintain kitchen and dining adjacencies. Living room may be a separate space if layout requires it.

2. Covered outdoor patio should have direct access to the kitchen and dining program.
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6. ALL FURNITURE IS A PLACE HOLDER UNLESS SPECIFICALLY NOTED.

7. CONFIRM REQUIREMENTS FOR SOUND TRANSMISSION CLASS (STC) RATINGS OF WALLS, CEILINGS & FLOORS WITH THE AIR FORCE DESIGN GUIDE.

8. DESIGN AND OCCUPANT LOADS BASED ON SHIFTS, NUMBER OF COMPANIES AND/OR STAFFED VEHICLES - REFERENCE BASE REQUIREMENTS FOR EXACT LOADS.

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DORM ROOM NOTES

1. BED IS SHARED BETWEEN TWO SHIFTS, WITH LINENS REPLACED AFTER EACH SHIFT.

2. EACH FIREFIGHTER HAS HIS/HER OWN LOCKABLE WARDROBE.

3. NUMBER OF DORMS DEPENDANT UPON NUMBER OF RESPONDERS ON DUTY. INCLUDE DORM FOR STATION OFFICER. STATION OFFICER'S OFFICE SHOULD HAVE DIRECT ACCESS TO DORM WHEN POSSIBLE.

4. CONFIGURATION IS A NOTIONAL LAYOUT.

FLOOR FINISH LEGEND

- Sealed Concrete
- Carpet
- Ceramic Tile
- Rubber Sheet
- Floor Drain
- Hose Bib

CEILING LEGEND

- 2x2 Acoustical Tile
- Spots Elevation Marker
- Recessed Can Light
- Gypsum Board
- 2x2 Light
- Ceiling Fan
- Small Pendant Light
- 2x1 Light
- Low Bay Lighting
- 2x1 Supply Diffuser
- Open to Structure

DORM ROOM - FLOOR PLAN

DORM ROOM - REFLECTED CEILING PLAN

DORM ROOM - AXON
1. Modules are designed to correspond with a large headquarters fire station and are intended to flex to accommodate different building sizes.

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3. Every wall is a placeholder.

4. As the modules are combined to create a facility, discretion should be used as to which walls need to be moved, added or removed.

5. If no wall is present, it is the design intent to leave that space open to adjacent spaces within the facility.

6. All furniture is a placeholder unless specifically noted.

7. Confirm requirements for Sound Transmission Class (STC) ratings of walls, ceilings & floors with the Air Force Design Guide.

8. Design and occupant loads based on shifts, number of companies and/or staffed vehicles - reference requirements for exact loads.

9. Modules designs are per the Unified Facilities Criteria (UFC 4-730-10 Jun 2006). This UFC is intended as a source for basic architectural and engineering information for all individuals involved in planning, design or evaluation of fire stations. Consult guidelines for evaluation, clarification, planning, and programming.
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4. AS THE MODULES ARE COMBINED TO CREATE A FACILITY, DISCRETION SHOULD BE USED AS TO WHICH WALLS NEED TO BE MOVED, ADDED OR REMOVED.

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7. CONFIRM REQUIREMENTS FOR SOUND TRANSMISSION CLASS (STC) RATINGS OF WALLS, CEILINGS & FLOORS WITH THE AIR FORCE DESIGN GUIDE.

8. DESIGN AND OCCUPANT LOADS BASED ON SHIFTS, NUMBER OF COMPANIES AND/OR STAFFED VEHICLES - REFERENCE BASE REQUIREMENTS FOR EXACT LOADS.

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5. If no wall is present, it is the design intent to leave that space open to adjacent spaces within the facility.
6. All furniture is a place holder unless specifically noted.
7. Confirm requirements for sound transmission class (STC) ratings of walls, ceilings & floors with the Air Force design guide.
8. Design and occupant loads based on shifts, number of compressed air or static engines. Reference base requirements for exact loads.
9. Modules are designed for the unified facilities criteria guidelines. (UFC 4-023-01 Jun 2006). This UFC is intended as a guide for basic architecture and engineering information for all individuals involved in planning, design or evaluation of fire stations. Consult guidelines for evaluation, clarification, planning and programming.

GENERAL NOTES

1. All ceiling heights are 9'-0" unless otherwise noted.
2. Use demountable partitions where possible but must meet STC requirements.

FLOOR FINISH LEGEND

1. Sealed concrete
2. Carpet
3. Ceramic tile
4. Rubber sheet
5. Floor drain
6. Hose bib

CEILING LEGEND

1. 2 X 2 acoustical tile
2. 2 X 4 light
3. 2 X 4 supply diffuser
4. Open to structure
5. Pendant light
6. Recessed can light
7. Ceiling fan
8. Small pendant light
9. Low bay lighting
10. Spot elevation marker

ADMINISTRATIVE NOTES

1. All ceiling heights are 9'-0" unless otherwise noted.
2. Use demountable partitions where possible but must meet STC requirements.
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2. EVERY WALL IS GENERIC UNLESS SPECIFICALLY NOTED.

3. EVERY WALL IS A PLACE HOLDER.

4. AS THE MODULES ARE COMBINED TO CREATE A FACILITY, DISCRETION SHOULD BE USED AS TO WHICH WALLS NEED TO BE MOVED, ADDED OR REMOVED.

5. IF NO WALL IS PRESENT, IT IS THE DESIGN INTENT TO LEAVE THAT SPACE OPEN TO ADJACENT SPACES WITHIN THE FACILITY.

6. ALL FURNITURE IS A PLACE HOLDER UNLESS SPECIFICALLY NOTED.

7. CONFIRM REQUIREMENTS FOR SOUND TRANSMISSION CLASS (STC) RATINGS OF WALLS, CEILINGS & FLOORS WITH THE AIR FORCE DESIGN GUIDE.

8. DESIGN AND OCCUPANT LOADS BASED ON SHIFTS, NUMBER OF COMPANIES AND/OR STAFFED VEHICLES - REFERENCE BASE REQUIREMENTS FOR EXACT LOADS.

9. MODULE DESIGNS ARE PER THE UNIFIED FACILITIES CRITERIA GUIDELINES. (UFC 4-730-10 JUN 2006). THIS UFC IS INTENDED AS A SOURCE FOR BASIC ARCHITECTURAL AND ENGINEERING INFORMATION FOR ALL INDIVIDUALS INVOLVED IN PLANNING, DESIGN OR EVALUATION OF FIRE STATIONS. CONSULT GUIDELINES FOR EVALUATION, CLARIFICATION, PLANNING, AND PROGRAMMING.

1. ALL CEILING HEIGHTS ARE 9'-0" UNLESS OTHERWISE NOTED.

2. USE DEMOUNTABLE PARTITIONS WHERE POSSIBLE. MUST MEET STC REQUIREMENTS.
1. Modules are designed to correspond with a large headquarters fire station and are intended to flex to accommodate different building sizes.

2. Every wall is generic unless specifically noted.

3. Every wall is a placeholder.

4. As the modules are combined to create a facility, discretion should be used as to which walls need to be moved, added or removed.

5. If no wall is present, it is the design intent to leave that space open to adjacent spaces within the facility.

6. All furniture is a placeholder unless specifically noted.

7. Confirm requirements for sound transmission class (STC) ratings of walls, ceilings & floors with the Air Force Design Guide.

8. Design and occupant loads based on shifts, number of companies and/or staffed vehicles - reference base requirements for exact loads.

9. Modules designs are per the Unified Facilities Criteria Guidelines (UFC 4-730-10 Jun 2006). This UFC is intended as a source for basic architectural and engineering information for all individuals involved in planning, design, evaluation, clarification, planning, and programming.

TRAINING/TESTING NOTES

1. Training rooms are sized to accommodate the entire on-duty population. Used for education and training of personnel and occasionally public. Should have direct access to a computer testing room and storage space.

2. In the testing room provide study/computer carrels per the UFC.

FLOOR FINISH LEGEND

- Sealed Concrete
- Carpet
- Ceramic Tile
- Rubber Sheet
- Floor Drain
- Hose Bib

CEILING LEGEND

- 2 x 2 Acoustical Tile
- Spot Elevation Marker
- Recessed Can Light
- Opus Board
- Ceiling Fan
- 2 x 2 Light
- Small Pendant Light
- 2 x 2 Light
- Low Bay Lighting
- 2 x 2 Supply Diffuser
- Open to Structure
- Pendant Light
1. MODULES ARE DESIGNED TO CORRESPOND WITH A LARGE HEADQUARTERS FIRE STATION AND ARE INTENDED TO FLEX TO ACCOMMODATE DIFFERENT BUILDING SIZES.
2. EVERY WALL IS GENERIC UNLESS SPECIFICALLY NOTED.
3. EVERY WALL IS A PLACE HOLDER.
4. AS THE MODULES ARE COMBINED TO CREATE A FACILITY, DISCRETION SHOULD BE USED AS TO WHICH WALLS NEED TO BE MOVED, ADDED OR REMOVED.
5. IF NO WALL IS PRESENT, IT IS THE DESIGN INTENT TO LEAVE THAT SPACE OPEN TO ADJACENT SPACES WITHIN THE FACILITY.
6. ALL FURNITURE IS A PLACE HOLDER UNLESS SPECIFICALLY NOTED.
7. CONFIRM REQUIREMENTS FOR SOUND TRANSMISSION CLASS (STC) RATINGS OF WALLS, CEILINGS & FLOORS WITH THE AIR FORCE DESIGN GUIDE.
8. DESIGN AND OCCUPANT LOADS BASED ON SHIFTS, NUMBER OF COMPANIES AND/OR STAFFED VEHICLES - REFERENCE BASE REQUIREMENTS FOR EXACT LOADS.
9. MODULES DESIGNS ARE PER THE UNIFIED FACILITIES CRITERIA (UFC 4-730-10 JUN 2006). THIS UFC IS INTENDED AS A SOURCE FOR BASIC ARCHITECTURAL AND ENGINEERING INFORMATION FOR ALL INDIVIDUALS INVOLVED IN PLANNING, DESIGN OR EVALUATION OF FIRE STATIONS. CONSULT GUIDELINES FOR EVALUATION, CLARIFICATION, PLANNING AND PROGRAMMING.

DISPATCH NOTES
1. DISPATCH ROOM INCLUDES DEDICATED RESTROOM, KITCHENETTE, AND IT ROOM.
2. PROVIDE VISIBLE ACCESS TO EXTERIOR AND ALSO THE FLIGHTLINE WHEN APPLICABLE.

FLOOR FINISH LEGEND
- SEALED CONCRETE
- CARPET
- CERAMIC TILE
- RUBBER SHEET
- FLOOR DRAIN
- HOSE RB

CEILING LEGEND
- SPOT ELEVATION MARKER
- RECESSED CAN LIGHT
- CEILING FAN
- CEILING TILES 2'X2'
- SMALL PENDANT LIGHT
- LOW BAY LIGHTING
- OPEN TO STRUCTURE
- PENDANT LIGHT
- 2'X2' SUPPLY DIFFUSER
1. MODULES ARE DESIGNED TO CORRESPOND WITH A LARGE HEADQUARTERS FIRE STATION AND ARE INTENDED TO FLEX TO ACCOMMODATE DIFFERENT BUILDING SIZES.

2. EVERY WALL IS GENERIC UNLESS SPECIFICALLY NOTED.

3. EVERY WALL IS A PLACE HOLDER.

4. AS THE MODULES ARE COMBINED TO CREATE A FACILITY, DISCRETION SHOULD BE USED AS TO WHICH WALLS NEED TO BE MOVED, ADDED OR REMOVED.

5. IF NO WALL IS PRESENT, IT IS THE DESIGN INTENT TO LEAVE THAT SPACE OPEN TO ADJACENT SPACES WITHIN THE FACILITY.

6. ALL FURNITURE IS A PLACE HOLDER UNLESS SPECIFICALLY NOTED.

7. CONFIRM REQUIREMENTS FOR SOUND TRANSMISSION CLASS (STC) RATINGS OF WALLS, CEILINGS & FLOORS WITH THE AIR FORCE DESIGN GUIDE.

8. DESIGN AND OCCUPANT LOADS BASED ON SHIFTS, NUMBER OF COMPANIES AND/OR STAFFED VEHICLES - REFERENCE BASE REQUIREMENTS FOR EXACT LOADS.

9. MODULES DESIGNS ARE PER THE UNIFIED FACILITIES CRITERIA GUIDELINES. (UFC 4-730-10 JUN 2006). THIS UFC IS INTENDED AS A SOURCE FOR BASIC ARCHITECTURAL AND ENGINEERING INFORMATION FOR ALL INDIVIDUALS INVOLVED IN PLANNING, DESIGN OR EVALUATION OF FIRE STATIONS. CONSULT GUIDELINES FOR EVALUATION, CLARIFICATION, PLANNING, AND PROGRAMMING.

10. FLOOR FINISH LEGEND
   - SEALED CONCRETE
   - CARPET
   - CERAMIC TILE
   - RUBBER SHEET
   - FLOOR DRAIN
   - HOSE BIB

11. CEILING LEGEND
    - 2’x2’ ACOUSTICAL TILE
    - SPOT ELEVATION MARKER
    - RECESSED CAN LIGHT
    - CEILING FAN
    - SMALL PENDANT LIGHT
    - LOW BAY LIGHTING
    - OPEN TO STRUCTURE
    - 2’x2’ SUPPLY DIFFUSER
    - PENDANT LIGHT

12. LOBBY NOTES
    1. LOCATE LOBBY ADJACENT TO ADMINISTRATIVE COMPONENT. PROVIDE UPHOLSTERED SEATING AND SIDE TABLES.
    2. PROVIDE WALK-OFF MAT AT ENTRANCE. ENTRANCE SHOULD BE AN AIRLOCK.

13. GENERAL NOTES
    1. MODULES ARE DESIGNED TO CORRESPOND WITH A LARGE HEADQUARTERS FIRE STATION AND ARE INTENDED TO FLEX TO ACCOMMODATE DIFFERENT BUILDING SIZES.

    2. EVERY WALL IS GENERIC UNLESS SPECIFICALLY NOTED.

    3. EVERY WALL IS A PLACE HOLDER.

    4. AS THE MODULES ARE COMBINED TO CREATE A FACILITY, DISCRETION SHOULD BE USED AS TO WHICH WALLS NEED TO BE MOVED, ADDED OR REMOVED.

    5. IF NO WALL IS PRESENT, IT IS THE DESIGN INTENT TO LEAVE THAT SPACE OPEN TO ADJACENT SPACES WITHIN THE FACILITY.

    6. ALL FURNITURE IS A PLACE HOLDER UNLESS SPECIFICALLY NOTED.

    7. CONFIRM REQUIREMENTS FOR SOUND TRANSMISSION CLASS (STC) RATINGS OF WALLS, CEILINGS & FLOORS WITH THE AIR FORCE DESIGN GUIDE.

    8. DESIGN AND OCCUPANT LOADS BASED ON SHIFTS, NUMBER OF COMPANIES AND/OR STAFFED VEHICLES - REFERENCE BASE REQUIREMENTS FOR EXACT LOADS.

    9. MODULES DESIGNS ARE PER THE UNIFIED FACILITIES CRITERIA GUIDELINES. (UFC 4-730-10 JUN 2006). THIS UFC IS INTENDED AS A SOURCE FOR BASIC ARCHITECTURAL AND ENGINEERING INFORMATION FOR ALL INDIVIDUALS INVOLVED IN PLANNING, DESIGN OR EVALUATION OF FIRE STATIONS. CONSULT GUIDELINES FOR EVALUATION, CLARIFICATION, PLANNING, AND PROGRAMMING.

14. LOBBY NOTES
    1. LOCATE LOBBY ADJACENT TO ADMINISTRATIVE COMPONENT. PROVIDE UPHOLSTERED SEATING AND SIDE TABLES.
    2. PROVIDE WALK-OFF MAT AT ENTRANCE. ENTRANCE SHOULD BE AN AIRLOCK.

15. FLOOR FINISH LEGEND
    - SEALED CONCRETE
    - CARPET
    - CERAMIC TILE
    - RUBBER SHEET
    - FLOOR DRAIN
    - HOSE BIB

16. CEILING LEGEND
    - 2’x2’ ACOUSTICAL TILE
    - SPOT ELEVATION MARKER
    - RECESSED CAN LIGHT
    - CEILING FAN
    - SMALL PENDANT LIGHT
    - LOW BAY LIGHTING
    - OPEN TO STRUCTURE
    - 2’x2’ SUPPLY DIFFUSER
    - PENDANT LIGHT
1. Composite plans have been developed as an example of a facility integrated within a notional site. All real site locations, prior to bidding, will be assessed against operational and training requirements, along with other criteria that may impact existing infrastructure, environment, and manning. Information gathered through these assessments will impact the actual specific facility and site configuration. The modules are dynamic, allowing the user to flex and/or re-organize for their specific mission critical needs.

2. Storm water quality/quantity mitigation are not included for this conceptual site plan.

3. All future facilities will comply with current AAFB requirements, ARFF regulations, and current UFC.

4. Practice, water dump, and truck wash areas to be determined on site on a case by case need.

5. Agent storage located on structure side on Composite A, alternative on Composite B shown on ARFF side.

6. CCSD based on UFC 4-010-01, Feb 2012. Reference Tables B-1 and B-2.

7. CCSD illustrated based upon:

- Parking and roadways within a controlled perimeter
- Building is both billeting and inhabited
- Designed for higher standards (billeting
- Interior quality (highly finished)
- Wall type: reinforced masonry

8. Agent storage located on structure side on Composite B. Alternative on Composite A shown on ARFF side.


10. 30' - 0" CCSD illustrated based upon:

- Parking and roadways within a controlled perimeter
- Building is both billeting and inhabited
- Designed for higher standards (billeting
- Interior quality (highly finished)
- Wall type: reinforced masonry
1. Composite plans are notional layouts provided to demonstrate required adjacencies and illustrate possible configurations.
2. Furniture layout is for reference only. Layouts and furniture selections are to be approved by AFCEC.
3. Buildings are notional and should be modified based on the site and requirements of the specific facility.

General Notes:

Module Legend:

- Apparatus Bays
- Apparatus Support
- Agent Storage
- Dayroom
- Fitness
- Dorm
- Restroom
- Administration
- Training
- Testing
- Reserve
- Logistics
- Dispatch (RDZ)
- Room
- Hotline
- Recreation

Scale(s) as noted on this sheet are based on a full size 22x34 sheet.
1. RENDERED ELEVATIONS ARE NOT TO SCALE.
2. MATERIALS RENDERED ARE NOT FINAL AND ARE INTENDED TO SHOW POSSIBLE CONFIGURATIONS.
3. BASE STANDARDS SHOULD BE USED WHEN POSSIBLE.
### COMPOSITE B - LARGE HEADQUARTERS COMBINATION ENTRY

#### Perspective

**Drawing Title:** COMPOSITE B - LARGE HEADQUARTERS COMBINATION PROGRAM AND PERSPECTIVES

**Drawn By:** [Signature]

**Date:** December 2013

**Scale:** 1/2 inch = 1 foot-0 inches

#### Pre-Design Area Matrix

<table>
<thead>
<tr>
<th>Component</th>
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<td><strong>Pre-Design Area Matrix</strong></td>
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<tr>
<td>Transportation, Traffic, and other</td>
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**NOT FOR CONSTRUCTION**

501 North Broadway, St. Louis, Missouri 63102-2121

AIR FORCE CIVIL ENGINEER CENTER (AFCEC)

FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:

FIRE STATION HEADQUARTERS

COMBINATION PROGRAM AND PERSPECTIVES

Jacobs Project No.: 701/58186

Drawing Title: COMPOSITE B - LARGE HEADQUARTERS COMBINATION PROGRAM AND PERSPECTIVES

Drawn By: [Signature]

Checked By: [Signature]

Date: December 2013

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1. Composite plans have been developed as an example of a fully integrated facility depicted on a notional site. All real site locations, prior to bidding, will be assessed against operational and training requirements, along with other criteria that may impact existing berthing, environment, and infrastructure. Information gathered through these assessments will impact the actual specific facility and site configuration. The modules are dynamic, allowing the user to flex and/or re-organize for their specific mission critical needs.

2. Storm water quality/quantity mitigation are not included for this conceptual site plan.

3. All future facilities will comply with current ATFP requirements, ATFP regulations and current UFC.

4. Practise, water dump, and truck wash areas to be determined on site on a case by case basis.

5. Agent storage located on structure side on Composite A, alternative on composites shown on ARFF side.

6. CCSD based on UFC 4-010-01, Feb 2012. Reference Tables B-1 and B-2.

7. 30’ - 0” CCSD illustrated based upon:

   A. Parking and roadways within a controlled perimeter
   B. Building is both billeting and inhabited
   C. Designed to higher standards (billeting / non-berthing need not follow)”
   D. Reinforced masonry

   Designated as non-berthing critical mission.

8. Designed by: Drawn by: Checked by: Date: Drawing No.: Drawing Title: Jacobs Project No.: 501 North Broadway, St. Louis, Missouri 63102-2121

   AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
   FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:

   CO107
COMPOSITE PLANS ARE NOTIONAL LAYOUTS PROVIDED TO DEMONSTRATE REQUIRED ADJACENCIES AND ILLUSTRATE POSSIBLE CONFIGURATIONS.

FURNITURE LAYOUT IS FOR REFERENCE ONLY. LAYOUTS AND FURNITURE SELECTIONS ARE TO BE APPROVED BY AFCEC.

BUILDINGS ARE NOTIONAL AND SHOULD BE MODIFIED BASED ON THE SITE AND REQUIREMENTS OF THE SPECIFIC FACILITY.
1. Rendered Elevations are not to scale.
2. Materials rendered are not final and are intended to show possible configurations.
3. Base standards should be used when possible.
1. Composite plans have been developed as an example of a fully integrated facility depicted on a notional site. All real site locations, prior to bidding, will be assessed against operational and training requirements, along with other criteria that may impact existing infrastructure, environment, and infrastructure. Information gathered through these assessments will impact the actual specific facility and site configuration. The modules are dynamic, allowing the user to flex and/or re-organize for their specific mission critical needs.

2. Storm water quality/quantity mitigation are not included for this conceptual site plan.

3. All future facilities will comply with current AFSP requirements, AF Regulations and current UFC.

4. Practice, water dump, and truck wash areas to be determined on site on a case-by-case basis.

5. Agent storage located on structure side on composite A, alternative on composites shown on ARFF side.

CCSD based on UFC 4-010-01, Feb 2012. Reference Tables B-1 and B-2

30' - 0" CCSD illustrated based upon:
- Parking and roadways within a controlled perimeter
- Building is both billeting and inhabited
- Designed to higher standards (blasting, vibration, etc.)
- Full drive access
- Wall type: reinforced masonry

Air Force Civil Engineer Center (AFCEC) Facilities Dynamic Prototypes Design For:

FDYD3106

December 2013

Jacobs Project No. F0YD3116E

Drawing Title: Composite A - Headquarters ARFF Site

Designed by: 12345

Drawn by: 12345

Checked by: 12345
1. Composite plans are notional layouts provided to demonstrate required adjacencies and illustrate possible configurations.

2. Furniture layout is for reference only. Layouts and furniture selections are to be approved by AFCEC.

3. Buildings are notional and should be modified based on the site and requirements of the specific facility.
ELEVATION NOTES

1. RENDERED ELEVATIONS ARE NOT TO SCALE.
2. MATERIALS RENDERED ARE NOT FINAL AND ARE INTENDED TO SHOW POSSIBLE CONFIGURATIONS.
3. BASE STANDARDS SHOULD BE USED WHEN POSSIBLE.
1. Composite plans have been developed as an example of a fully integrated facility depicted on a notional site. All real site locations, prior to bidding, will be assessed against operational and training requirements, along with other criteria that may impact existing mission, environment, and infrastructure. Information gathered through these assessments will impact the actual specific facility and site configuration. The modules are dynamic, allowing the user to flex and/or re-organize for their specific mission critical needs.

2. Storm water quality/quantity mitigation are not included for this conceptual site plan.

3. All future facilities will comply with current ARPP requirements, ARF regulations and current UFC.

4. Practice, water dump, and truck wash areas to be determined on site on a case by case basis.

5. Agent storage located on structure side on composite A, alternative on composite shown on ARFF side.

Conventional construction standoff distances (CCSD)

6. CCSD based on UFC 4-010-01, Feb 2012. Reference Tables B-1 and B-2

7. 30'-0" CCSD illustrated based upon:

- Parking and roadways within a controlled perimeter
- Building is both billeting and inhabited
- Designed to higher standards (billeting
- Upper story over structure) (final folded)
- Wall type: reinforced masonry
1. Composite plans are notional layouts provided to demonstrate required adjacencies and illustrate feasible configurations.

2. Furniture layout is for reference only. Layouts and furniture selections are to be approved by AFCEC.

3. Buildings are notional and should be modified based on the site and requirements of the specific facility.

---

**Module Legend**

- Apparatus Bays
- Apparatus Support
- Agent Storage
- Dayroom
- Fitness
- Dorm
- Fire Station
- Engineer Center (AFCEC)
- Facilities Dynamic Prototypes Design for:
- Administration
- Training
- Testing
- Reserves
- Logistics
- Operations (SEC)
- Break Room
- Hoteling
- Recreation

---

**General Notes**

- Scale(s) as noted on this sheet are based on a full size 22x34 sheet.
1. Rendered Elevations are not to scale.
2. Materials rendered are not final and are intended to show possible configurations.
3. Base standards should be used when possible.
1. Composite Plans have been developed as an example of a fully integrated facility depicted on a notional site. All real site locations, prior to bidding, will be assessed against operational, and training requirements, along with other criteria that may impact existing infrastructure, environment, and architecture. Information gathered through these assessments will impact the actual specific facility and site configuration. The modules are dynamic, allowing the user to flex and/or reorganize for their specific mission critical needs.

2. Storm water quality/quantity mitigation are not included for this conceptual site plan.

3. All future facilities will comply with current AFIP requirements, AF regulations, and current UFC.

4. Practice, water dump, and truck wash areas to be determined on a case-by-case need.

5. Agent storage located on structure side on composite A, alternative on composites shown on ARFF side.

6. CCSD based on UFC 4-010-01, Feb 2012. Reference Table B-1 and B-2.

7. 30’ - 0” CCSD illustrated based upon:
   - Parking and roadways within a controlled perimeter
   - Building is both billeting and inhabited
   - Designed to higher standard (billeting or more DoD occupants routinely housed)
   - Non-load-bearing walls
   - Wall type: reinforced masonry
1. Composite plans are notional layouts provided to demonstrate required adjacencies and illustrate possible configurations.
2. Furniture layout is for reference only. Layouts and furniture selections are to be approved by AFCEC.
3. Buildings are notional and should be modified based on the site and requirements of the specific facility.
1. Rendered elevations are not to scale.
2. Materials rendered are not final and are intended to show possible configurations.
3. Base standards should be used when possible.
1. Composite plans have been developed as an example of a fully integrated facility depicted on a notional site. All real site locations, prior to bidding, will be assessed against operational and training requirements, along with other criteria that may impact existing mission, environment, and infrastructure. Information gathered through these assessments will impact the actual specific facility and site configuration. The modules are dynamic, allowing the user to flex and/or re-organize for their specific mission critical needs.

2. Storm water quality/quantity mitigation are not included for this conceptual site plan.

3. All future facilities will comply with current ATFP requirements, ARF regulations and current UFC.

4. Practice, water dump, and truck wash areas to be determined on site on a case by case needs.

5. Agent storage located on structure side on composite A, alternative on composite shown on ARFF side.

6. CCSD based on UFC 4-010-01, Feb 2012. Reference tables B-1 and B-2.

7. 30’ - 0” CCSD illustrated based upon:
   - parking and roadways within a controlled perimeter
   - buildings both billeting and inhabited
   - designed using loadings and practices
   - pertinent UFC loadings (blasting, Forever offices, roofing, etc.)
   - walls and ground walls
   - all type reinforced masonry

---

**CO127**

**COMPOSITE PLAN AND SITE NOTES**

1. Composite plans have been developed as an example of a fully integrated facility depicted on a notional site. All real site locations, prior to bidding, will be assessed against operational and training requirements, along with other criteria that may impact existing mission, environment, and infrastructure. Information gathered through these assessments will impact the actual specific facility and site configuration. The modules are dynamic, allowing the user to flex and/or re-organize for their specific mission critical needs.

2. Storm water quality/quantity mitigation are not included for this conceptual site plan.

3. All future facilities will comply with current ATFP requirements, ARF regulations and current UFC.

4. Practice, water dump, and truck wash areas to be determined on site on a case by case needs.

5. Agent storage located on structure side on composite A, alternative on composite shown on ARFF side.

6. CCSD based on UFC 4-010-01, Feb 2012. Reference tables B-1 and B-2.

7. 30’ - 0” CCSD illustrated based upon:
   - parking and roadways within a controlled perimeter
   - buildings both billeting and inhabited
   - designed using loadings and practices
   - pertinent UFC loadings (blasting, Forever offices, roofing, etc.)
   - walls and ground walls
   - all type reinforced masonry

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1. Composite plans are notional layouts provided to demonstrate required adjacencies and illustrate possible configurations.

2. Furniture layout is for reference only. Layouts and furniture selections are to be approved by AFCEC.

3. Buildings are notional and should be modified based on the site and requirements of the specific facility.
1. Rendered elevations are not to scale.
2. Materials rendered are not final and are intended to show possible configurations.
3. Base standards should be used when possible.