

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

FACILITIES DYNAMIC PROTOTYPES DESIGN FOR FIRE STATION - HEADQUARTERS

SUBMISSION:
REVISED FINAL

DATE:
DECEMBER 2013



**AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:
FIRE STATION
HEADQUARTERS**



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G-001	PROJECT INFORMATION
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MO103	MODULE - APPARATUS BAYS
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MO105	MODULE - APPARATUS SUPPORT - LINEAR
MO106	MODULE - BUILDING SUPPORT
MO107	MODULE - RESIDENTIAL - DAY ROOM
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MO110	MODULE - RESIDENTIAL - FITNESS & RECREATION
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CO102	COMPOSITE A - LARGE HEADQUARTERS COMBINATION SITE
CO103	COMPOSITE A - LARGE HEADQUARTERS COMBINATION OVERALL FLOOR PLAN
CO104	COMPOSITE A - LARGE HEADQUARTERS COMBINATION ENLARGED FLOOR PLANS
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CO106	COMPOSITE B - LARGE HEADQUARTERS COMBINATION PROGRAM AND PERSPECTIVES
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CO111	COMPOSITE A - HEADQUARTERS ARFF PROGRAM AND PERSPECTIVES
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CO113	COMPOSITE A - HEADQUARTERS ARFF OVERALL FLOOR PLAN
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CO127	COMPOSITE B - HEADQUARTERS STRUCTURAL SITE
CO128	COMPOSITE B - HEADQUARTERS STRUCTURAL OVERALL FLOOR PLAN
CO129	COMPOSITE B - HEADQUARTERS STRUCTURAL ENLARGED FLOOR PLAN
CO130	COMPOSITE B - HEADQUARTERS STRUCTURAL ELEVATIONS

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Jacobs Project No.: FDYD3106

Drawing Title:
COVER SHEET

Date: DECEMBER 2013

Designed By: LEG
Drawing No.:
Drawn By: KLV
Checked By: JW
G-000

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

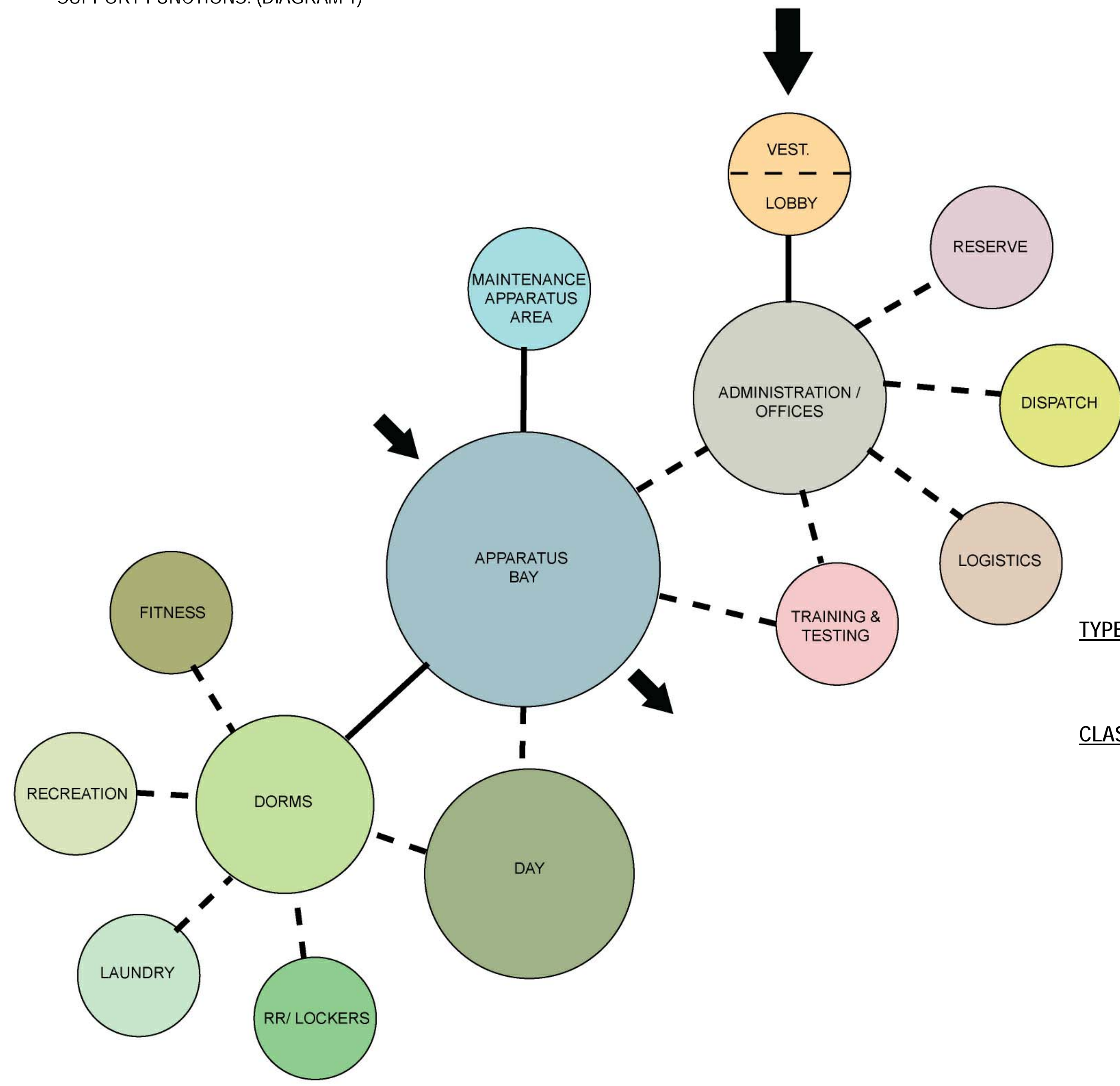
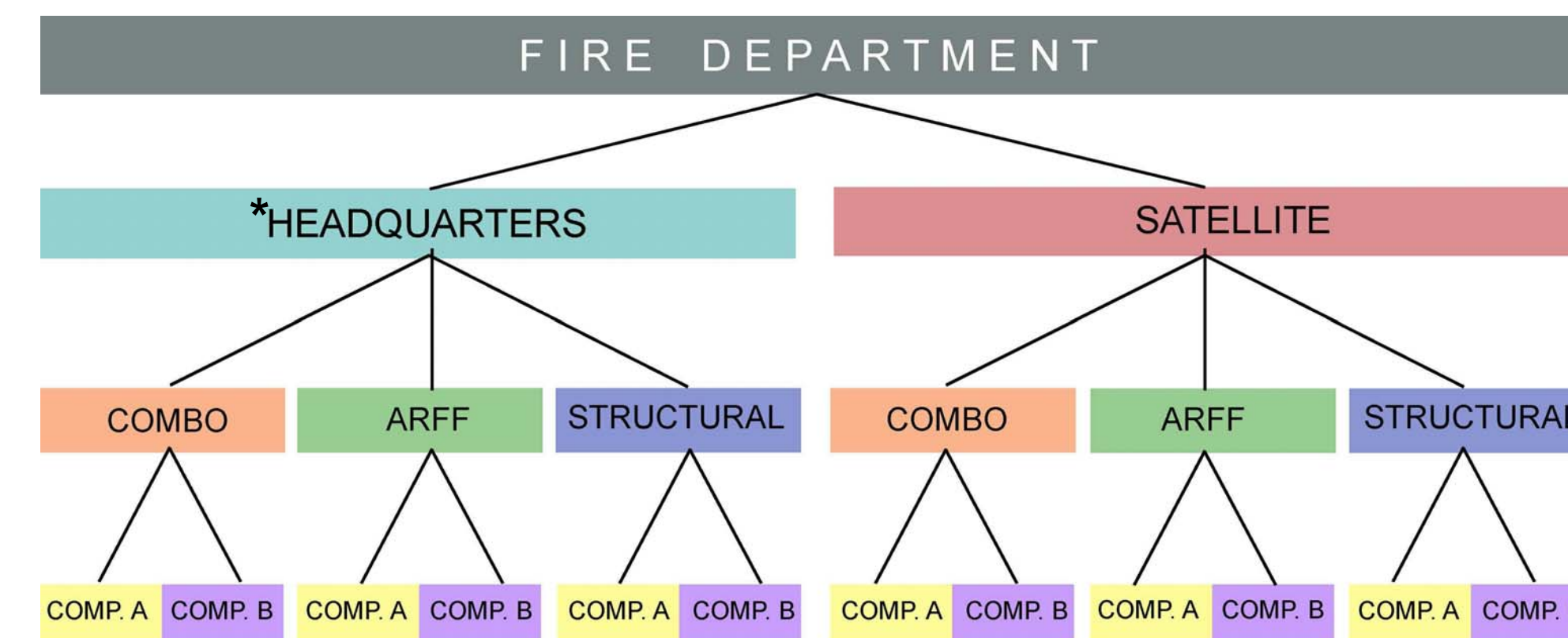


DIAGRAM 1

TYPES OF FIRE STATIONS:

CLASS OF FIRE STATIONS:



*LARGE HEADQUARTER STATIONS ARE VERY LARGE COMBINATION STATIONS THAT TYPICALLY SERVE AN ENTIRE INSTALLATION WITHOUT SATELLITE STATIONS

DIAGRAM 2

FIRE STATION BUBBLE DIAGRAM: THIS ILLUSTRATIVE DIAGRAM BELOW DOES NOT REPRESENT MANDATORY OR EVEN SUGGESTED LAYOUTS AND IS PROVIDED 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.

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

FIRE STATION HEADQUARTERS

Jacobs Project No.: FDYD3106

Drawing Title:
PROJECT INFORMATION

Date: DECEMBER 2013

Designed By: LEG
Drawn By: KLV
Checked By: JW

Drawing No.:
G-001

NOT FOR CONSTRUCTION

911 Central Parkway N., Suite 425 San Antonio, TX 78232
501 North Broadway, St. Louis, Missouri 63102-2121

Prototype Fire Station

Select Service Branch: **Air Force**

Select Fire Station Type: **Combination** Select Class of Facility: **HQ/Main**

Department Information

Total Responders in Department: **20** Total Staffed Vehicles in Department: **17**

Staffing Based Upon Aircraft and Vehicle Set

Select Aircraft Served: **T-43A (737)**
Vehicle Set Authorized for Base: **Air Force Vehicle Set 3**

	Max. Per Base	Staffed Vehicle Count	Per Vehicle	Total	Vehicle Size Class
P-22/24 Structural Pumper	1	1	4	4	Large Structural
P-22/24 Structural Pumper or P-33 75' Quint	1	1	4	4	Large Structural
P-30 Rescue Vehicle	1	1	2	2	Small
P-18/26 Water Tanker	1				Medium Structural
P-23 Crash Truck (3,000 gal)	1	1	3	3	Large ARFF
P-19 Crash Truck (1,500 gal)	1	1	3	3	Medium ARFF
P-34 RIV (500 gal)	1	1	2	2	Small
P-31 HazMat Vehicle	1	1	1	1	Medium Structural
Chief 1 - Command and Control Vehicle	1	1	1	1	Small
Chief 2 - Command and Control Vehicle	1	1	1	1	Small
Total Counts:		9		21	

Use Nos. Above:	No	Alt. Ct.	Total Ct.	Bay Sizes							
				Length		Width		End Bay			
Vehicle Size Class				m	ft	mm	ft	mm	ft	mm	ft
Small	4	4									
Med. Struct.	7	7		14630	48	14630	22	6706	17	5944	19.5
Lg. Struct.											
Med. ARFF	6	6		14630	48	14630	24	7315	19.5	6706	22
Lg. ARFF											
Largest Dimensions:				14630	48	14630	24	7315	19.5	6706	22
Apparatus Bay Area:						m ²	214.04			107.02	98.11
						ft ²	1152			936	1056

Provide additional Bays for Small vehicles: **Yes** Number (2 suggested): **2**

* This suggested area must be carefully reviewed by the planning team. Review

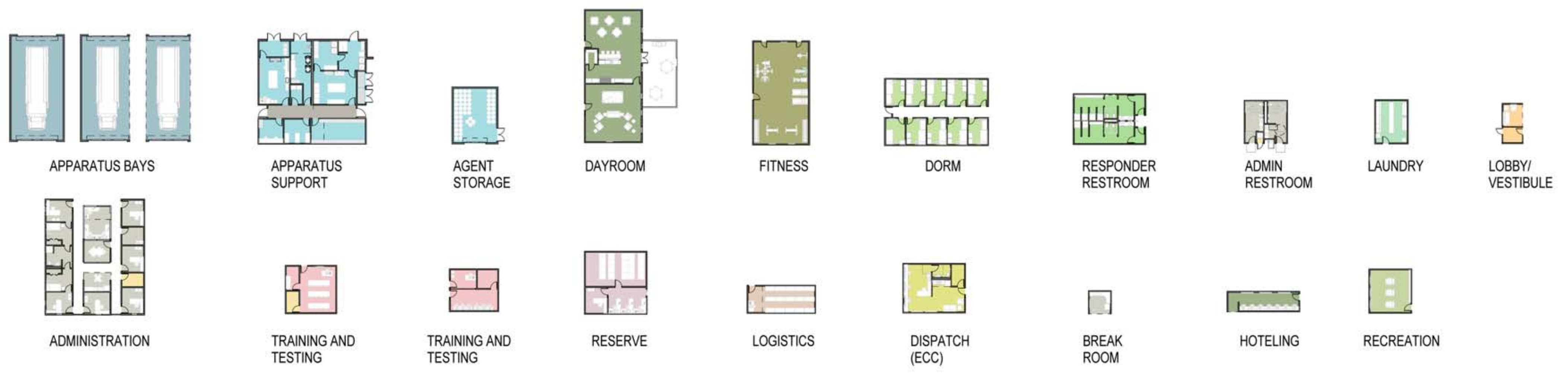
15 Bays Currently Programmed Provide additional Apparatus Bays: **No** Number:

THE INTERACTIVE WORKSHEET : ESTABLISHES SQUARE FOOTAGE REQUIREMENTS BASED ON INFORMATION PROVIDED BY THE USER

Prototype Fire Station - HQ/Main Combination
2 Structural, 4 ARFF, 0 Ambulance, and 0 Rescue Companies with 20 Responders

Module	No. Occup	No. Responders	Area (SF)	Area (sqm)	Comments
MAINTENANCE & APPARATUS AREA					
Apparatus Bay	1		15,840	1,471.5	15,840
Apparatus Support	1		46	5.9	46
PPE Gear Storage	20	1	200	18.6	200
Hoist Storage	1		54	5.0	54
SCBA Maintenance Room	1		300	27.9	300
SCBA Compressor Room	1		100	9.3	100
Work Room / Equipment Maintenance	1		120	11.1	120
Equipment Wash / Disinfection	1		180	13.9	180
Infectious Control	1		160	14.9	160
Protective Clothing Laundry	1		300	27.9	300
EIT Storage - Cover	1		40	3.7	40
HAZMAT / OESNE Equipment Storage	1		120	11.1	120
Spans PPE Gear Storage	1		64	5.9	64
Vehicle Maintenance / Storage Bay	0	0	0	0.0	0
Vehicle Maintenance Office	0	0	0	0.0	0
Vehicle Maintenance Equipment Storage	0	0	0	0.0	0
Fire Extinguisher Inspection	2	1	48	4.5	48
Non-Fighting Fire Extinguishing Maintenance and Storage	0	0	0	0.0	0
Flightline Fire Extinguishing Maintenance	1		160	14.9	160
Flightline Fire Extinguishing Tank Recovery Exterior Covered Storage	0	0	0	0.0	0
Spans Flightline Fire Extinguishing Tank Exterior Covered Storage	0	0	0	0.0	0
SUBTOTAL MAINTENANCE & APPARATUS AREA	20	0	1,640.2	1,640.2	17,856
DAY ROOM & RESIDENTIAL AREA					
Day Room	20	1	120	22.0	2,400
Housing Stations	7	40	28.0	280	Combination of dining, kitchen, and lounge One workstation for every three Responders
Physical Therapy / Sauna	0	0	0	0.0	0
Host Nation Day Room	0	0	0	0.0	0
Dorm Rooms	20	20	100	200.7	2,160
Restrooms	1		234	21.7	234
Restrooms / Showers / Changing - Female Responders	1		385	35.8	385
Restrooms / Showers / Changing - Male Responders	1		385	35.8	385
Laundry	1		240	22.3	240
Fitness	1		1,200	111.5	1,200
Recreation	1		360	33.4	360
SUBTOTAL DAY ROOM & RESIDENTIAL AREA	20	1	674.4	7,293	
TRAINING & ADMINISTRATIVE AREA					
Lobby	0	1	60	5.9	64
Lobby Area	1		100	9.3	100
Public Toilet (ADA compliant, unisex)	1		40	4.2	40
Administration Assistant	1		120	11.1	120
Station Officer's Office / Watch Desk	1		120	11.1	120
Fire Chief's Office	1		120	11.1	120
Deputy Chief's Office	1		120	11.1	120
Chief's Conference Room	1		120	11.1	120
Assistant Chief / Shift Supervisor	1		120	11.1	120
Assistant Chief of Fire Prevention	1		120	11.1	120
Inspector's Office(s) / Workstations	2		120	11.9	120
EMS Office	1		80	7.4	80
HAZMAT Safety Office	1		120	11.1	120
Union Representative - Office	1		100	9.3	100
Fire Chief's Dorm Room	1		100	9.3	100
Chief's / Supervisor's Bathroom	1		75	7.0	75
Assistant Chief of Operations / Shift Supervisor's Dorm Room	1		100	9.3	100
Admin & Training Restrooms	2		146	27.1	292
Female Lavatory	1		100	9.3	100
Male Lavatory	1		100	9.3	100
Administration & Training Kitchens / Break Area	1		100	9.3	100
General Administration Storage	1		80	7.4	80
Training Office	1		100	9.3	100
Training Room	20	1	560	52.0	560
Training Room Storage	1		80	7.4	80
Computer Training / Testing Room	1		210	19.5	210
Logistics Office	1		80	7.4	80
Logistics Storage	1		240	22.3	240
Air Force Reserve Supervisor	1	1	120	11.1	120
Air Force Reserve Workstation	3	3	64	17.8	192
Air Force Reserve and Active Duty Mobility / Deployment Gear Storage	0	0	200	18.6	200
Air Force Reserve Firefighter PPE Gear	0	0	240	22.3	240
SUBTOTAL TRAINING & ADMINISTRATIVE AREA	74	1	3,118	4,210	10 SF / Reservist
EMERGENCY CONTROL CENTER (ECC)					

THE PREDESIGN AREA MATRIX : PROVIDES THE PROGRAMMATIC AND SQUARE FOOTAGE REQUIREMENTS FOR EACH FACILITY.



MODULES HAVE BEEN GENERATED USING THE RECOMMENDED SQUARE FOOTAGES PRODUCED BY THE INTERACTIVE WORKSHEET. MODULES ARE THEN PUT TOGETHER BASED ON ADJACENCY REQUIREMENTS TO CREATE AN OVERALL BUILDING FLOOR PLAN.

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

**FIRE STATION
HEADQUARTERS**

Jacobs Project No.: FDYD3106
Drawing Title: PROJECT INFORMATION

Date: DECEMBER 2013
Designed By: LEG
Drawn By: KLW
Checked By: JW
Drawing No.: G-002

DIAGRAM 3

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.

APPARATUS BAY NOTES

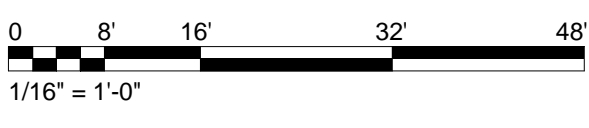
1. THE AIR FORCE WILL DETERMINE ON A CASE BY CASE BASIS BASED ON CLIMATIC CONDITIONS HOW TO CONDITION AND HEAT THE APPARATUS BAY
2. APPARATUS BAYS HAVE THREE POSSIBLE CONFIGURATIONS:
CONFIGURATION "A"- TRUCK PARKED BETWEEN TWO WALLS.
CONFIGURATION "B"- TRUCK PARKED BETWEEN A WALL AND ANOTHER TRUCK.
CONFIGURATION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

FLOOR FINISH LEGEND

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

CEILING LEGEND

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



Jacobs Project No.: FDYD3106

Drawing Title:

MODULE - MEDIUM VEHICLE APPARATUS BAYS

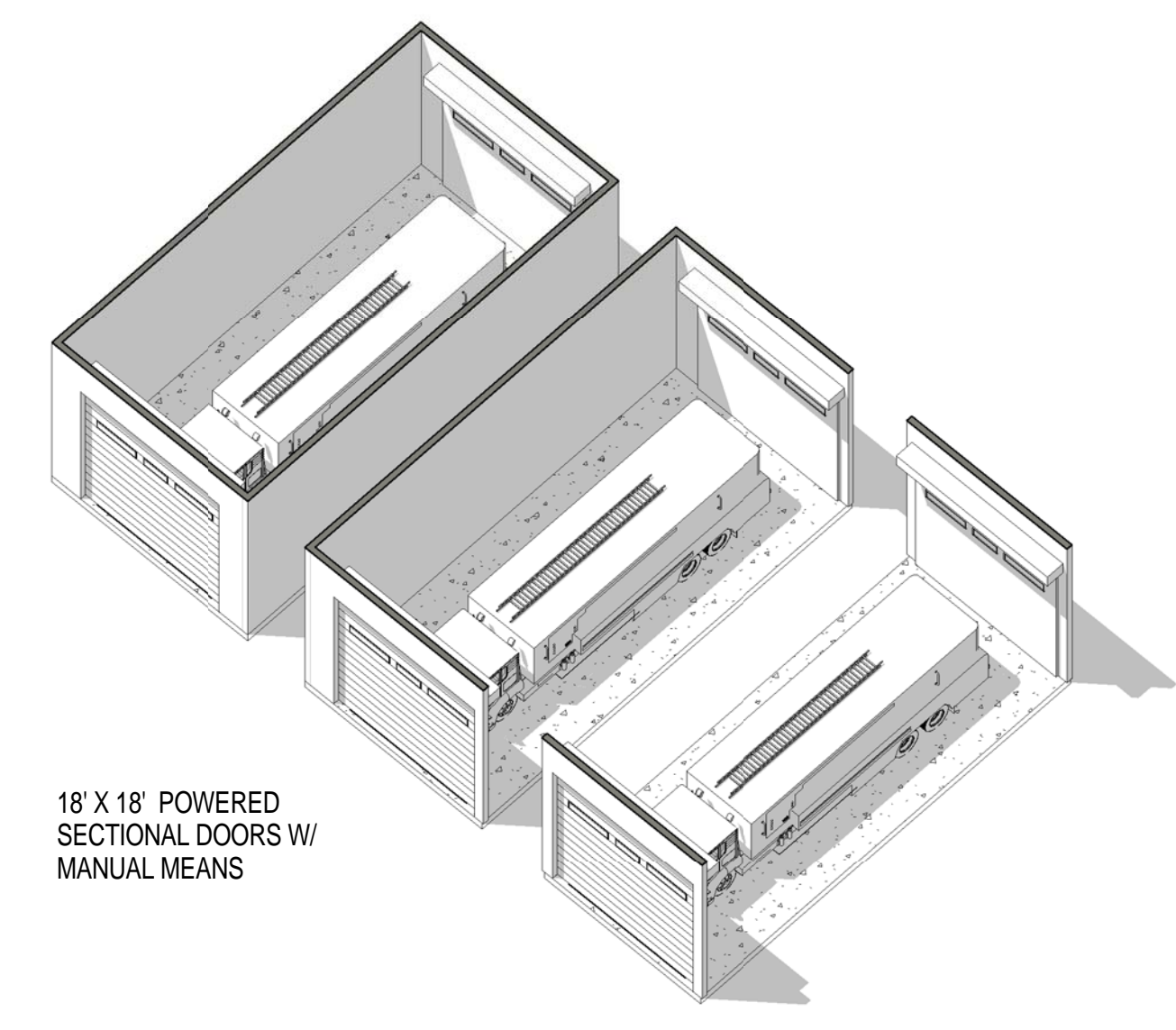
Date: DECEMBER 2013

Designed By: LEG

Drawn By: KLV

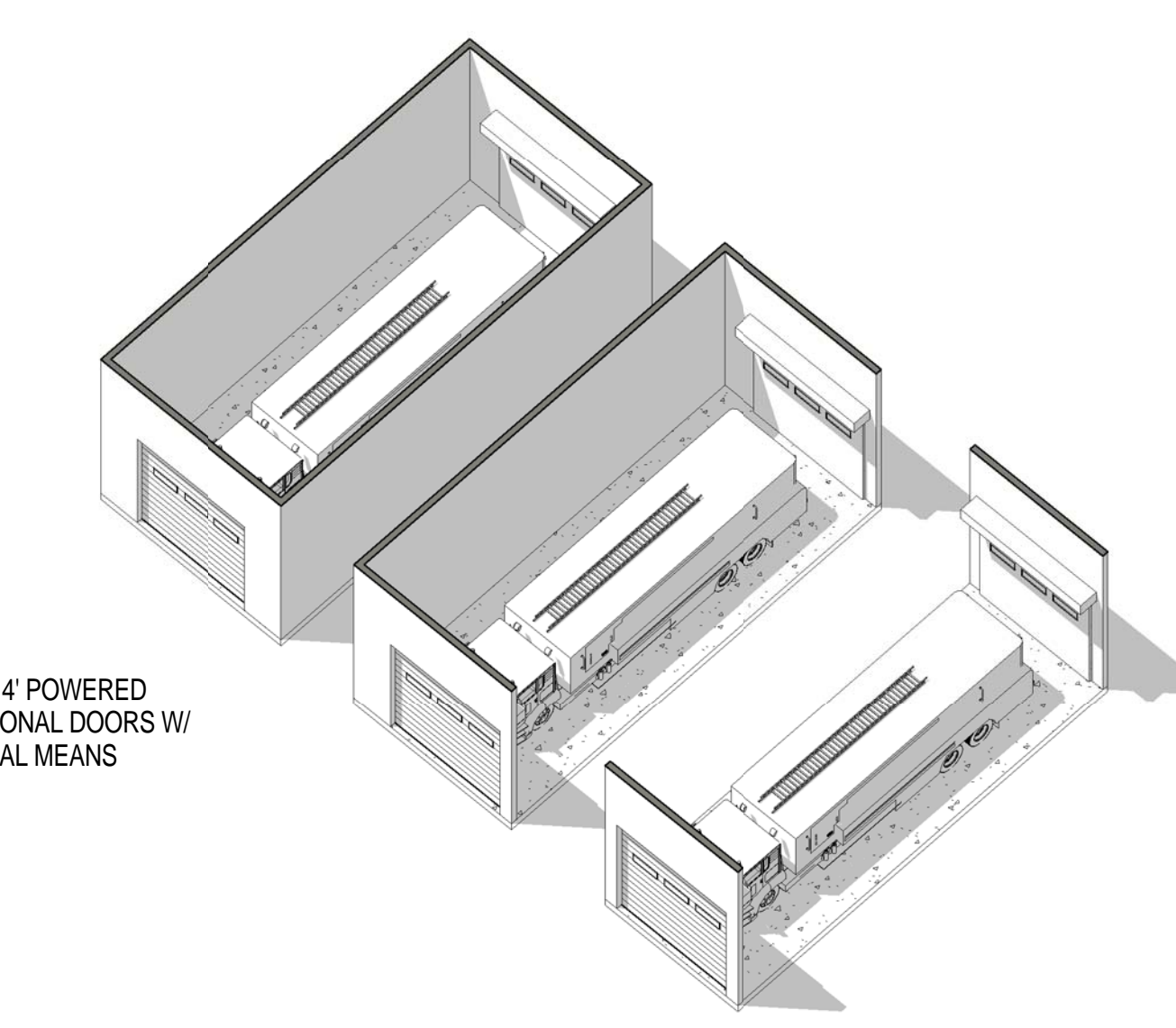
Checked By: JW

MO101



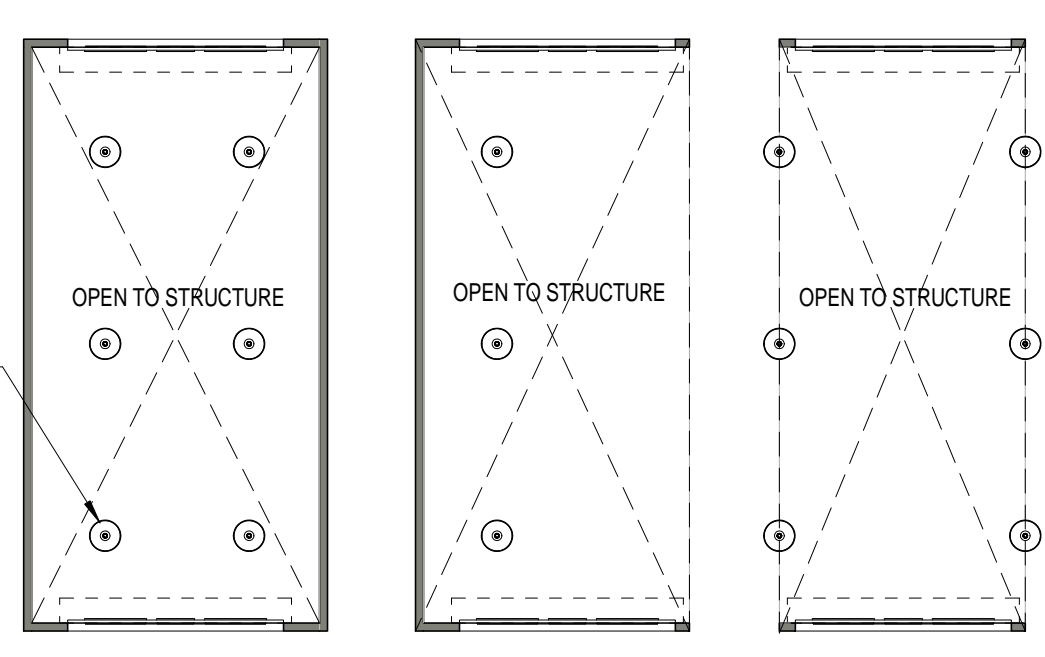
18' X 18' POWERED SECTIONAL DOORS W/ MANUAL MEANS

3 MEDIUM ARFF APPARATUS BAYS - AXONS



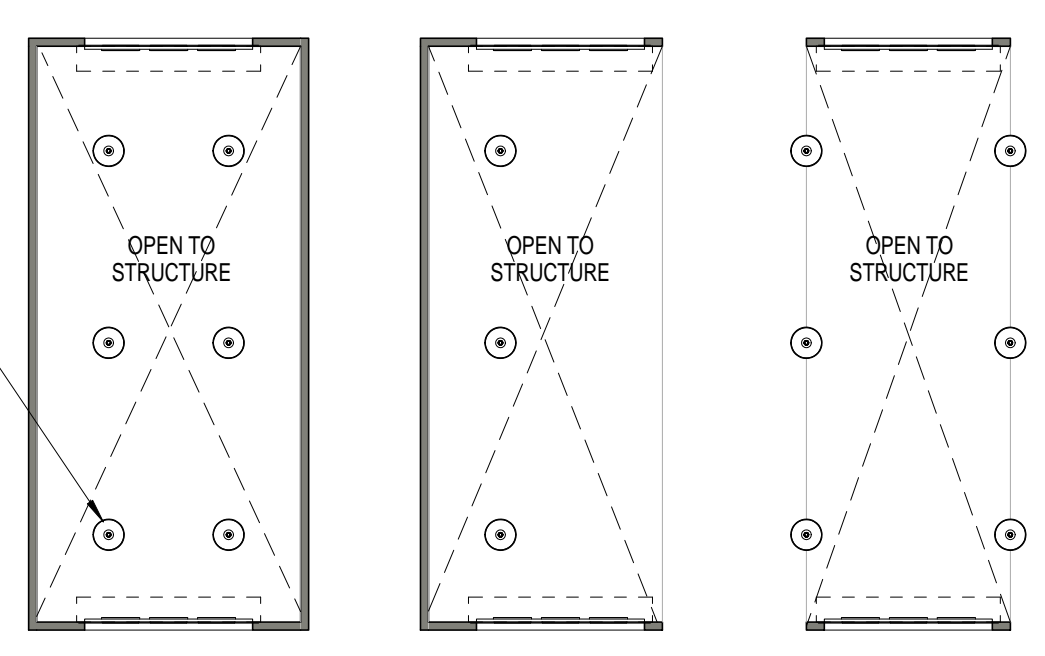
14' X 14' POWERED SECTIONAL DOORS W/ MANUAL MEANS

6 MEDIUM STRUCTURAL APPARATUS BAYS - AXONS



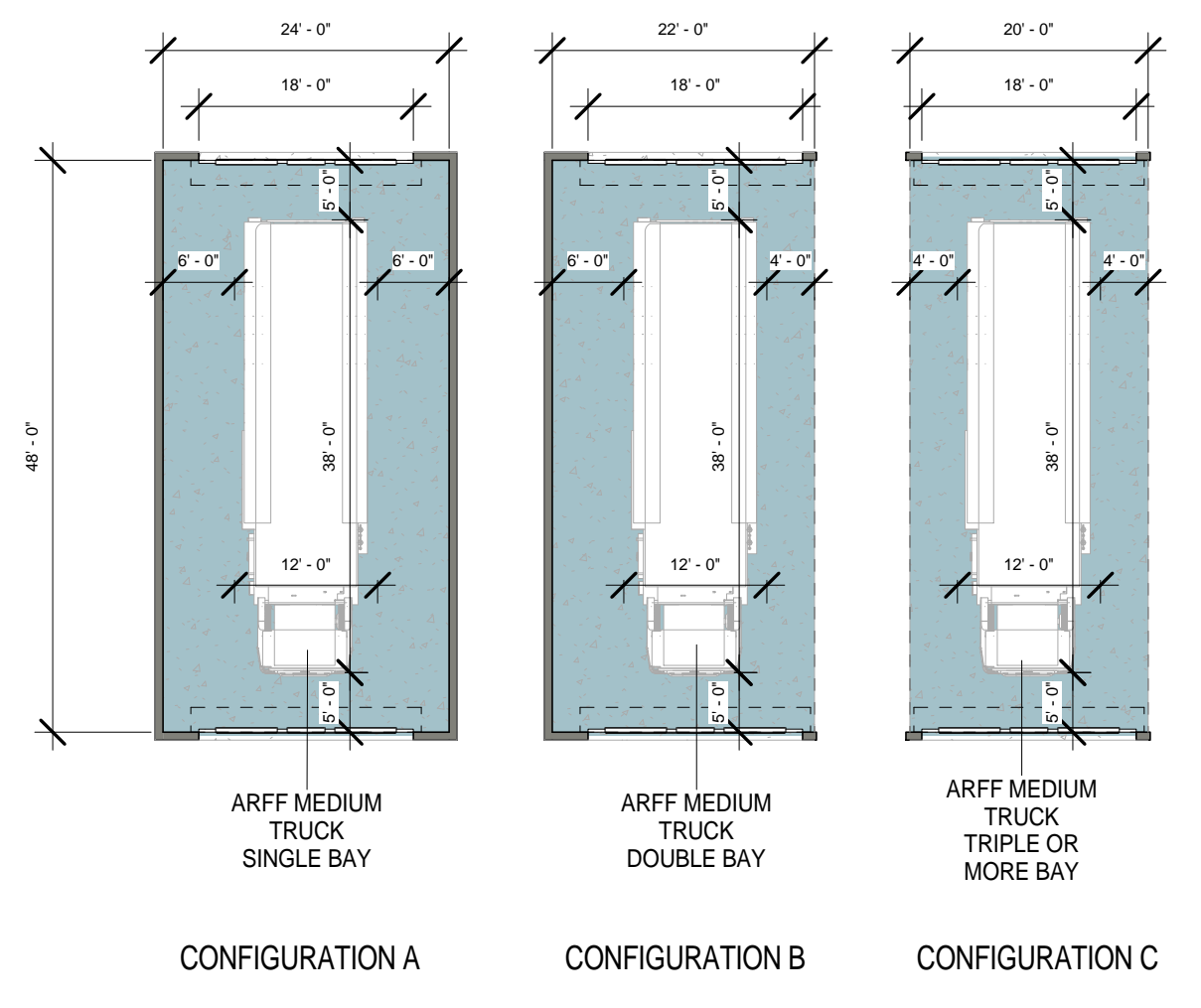
LIGHTING FIXTURES AND LAYOUTS ARE NOTIONAL - ACTUAL FIXTURES AND LAYOUTS TO BE DESIGNED PER UFC LIGHTING CRITERIA. IT IS SUGGESTED TO NOT PLACE OVERHEAD LIGHT DIRECTLY ABOVE VEHICLES, RATHER BETWEEN OR BESIDE TO LIGHT PATH OF TRAVEL.

2 MEDIUM ARFF APPARATUS BAYS - REFLECTED CEILING PLANS
1/16" = 1'-0"

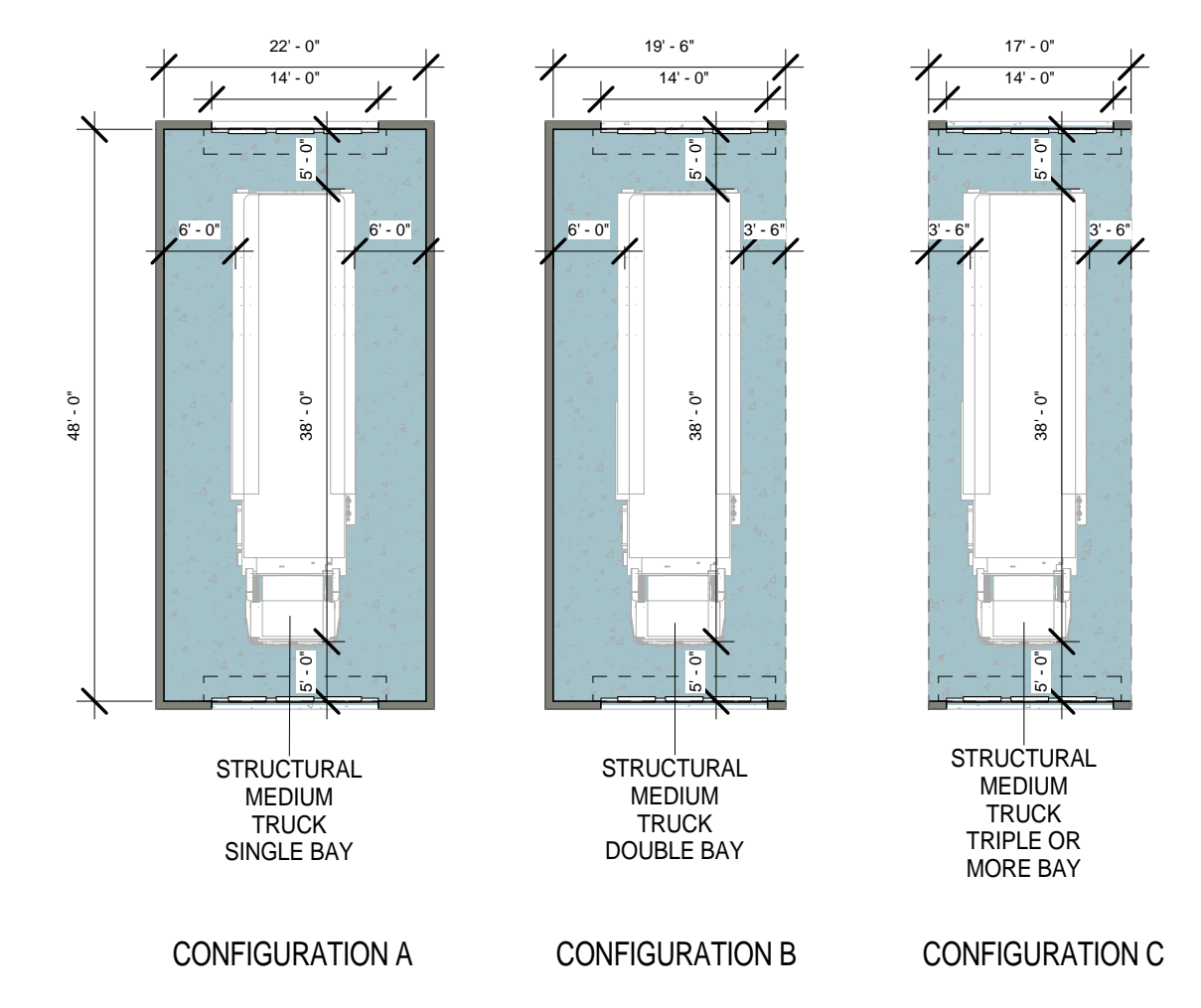


LIGHTING FIXTURES AND LAYOUTS ARE NOTIONAL - ACTUAL FIXTURES AND LAYOUTS TO BE DESIGNED PER UFC LIGHTING CRITERIA. IT IS SUGGESTED TO NOT PLACE OVERHEAD LIGHT DIRECTLY ABOVE VEHICLES, RATHER BETWEEN OR BESIDE TO LIGHT PATH OF TRAVEL.

5 MEDIUM STRUCTURAL APPARATUS BAYS - REFLECTED CEILING PLANS
1/16" = 1'-0"



1 MEDIUM ARFF APPARATUS BAYS - FLOOR PLANS
1/16" = 1'-0"



4 MEDIUM STRUCTURAL APPARATUS BAYS - FLOOR PLANS
1/16" = 1'-0"

1/2/2014 12:21:54 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

GENERAL NOTES

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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APPARATUS BAY NOTES

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FLOOR FINISH LEGEND

- SEALED CONCRETE
- CARPET
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CEILING LEGEND

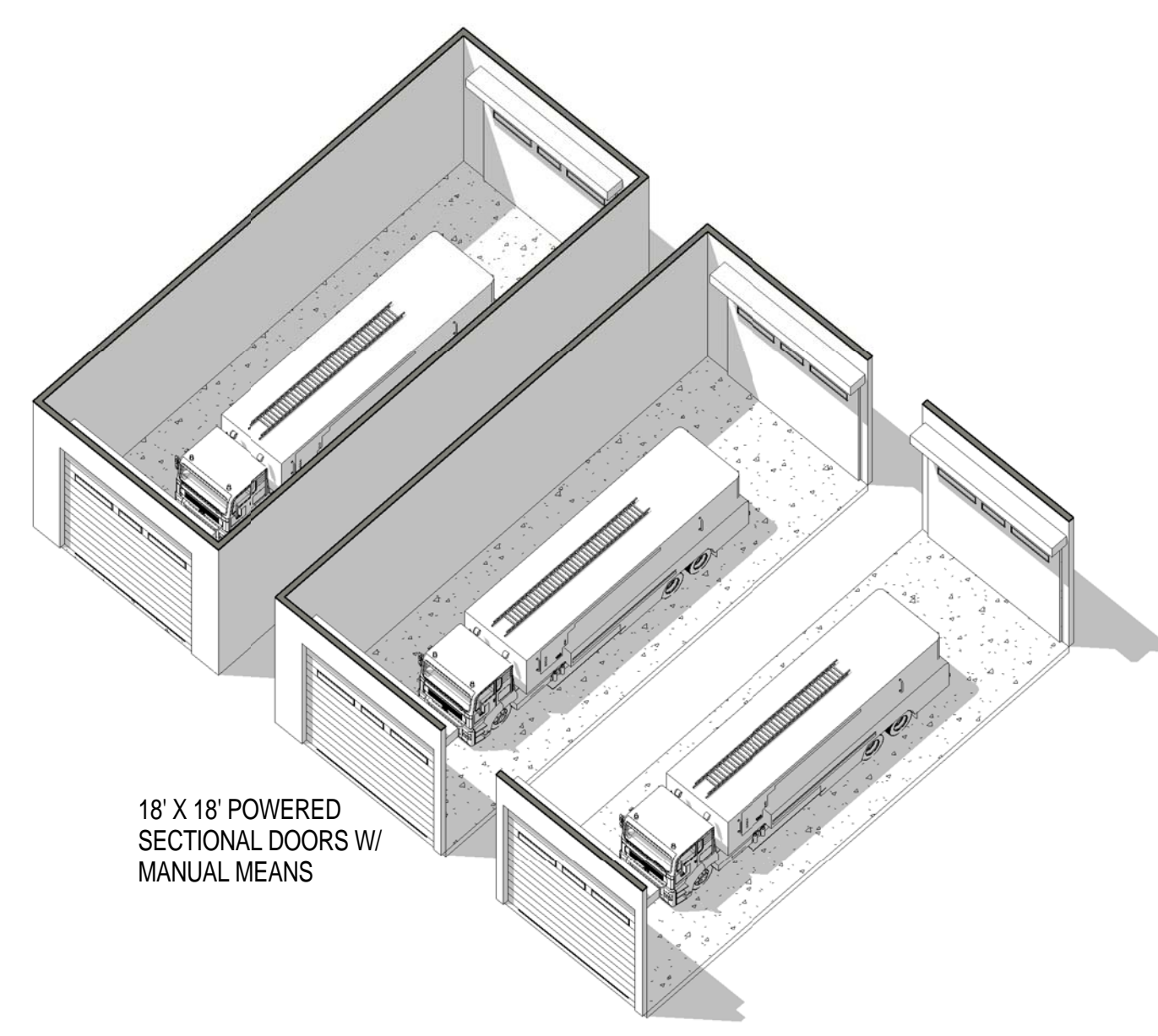
- 2 X 2 ACOUSTICAL TILE
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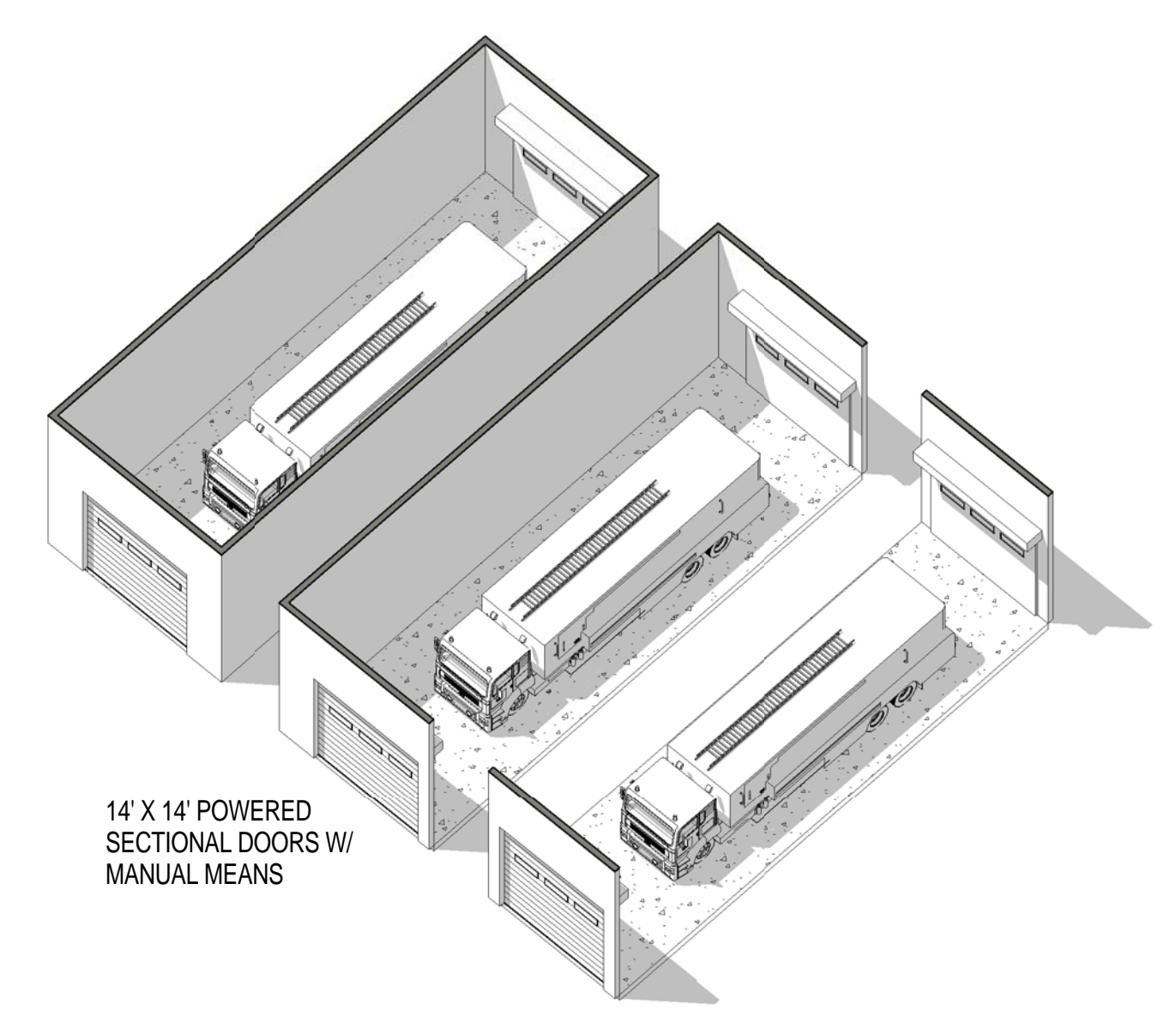
Jacobs Project No.: FDYD3106

Drawing Title:
MODULE - LARGE VEHICLE APPARATUS BAYS

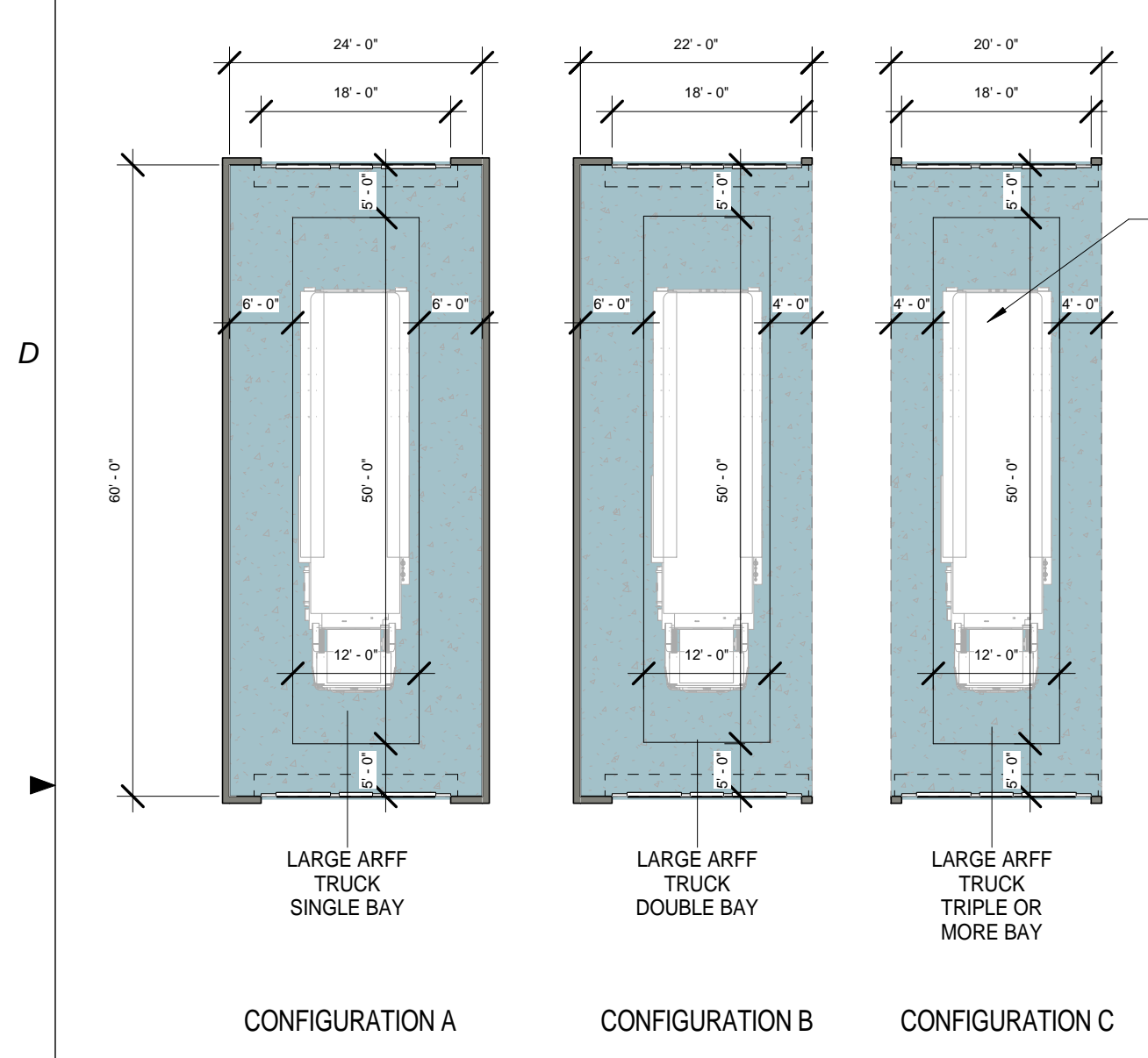
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MO102



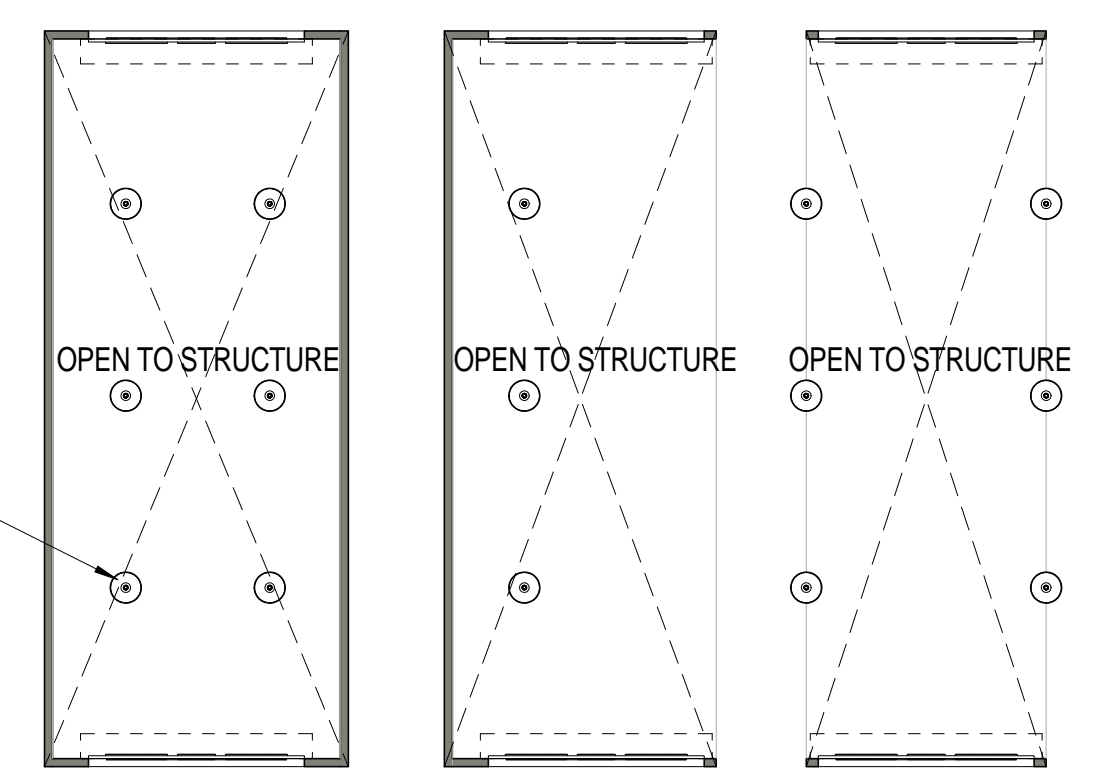
3 LARGE ARFF APPARATUS BAYS - AXONS



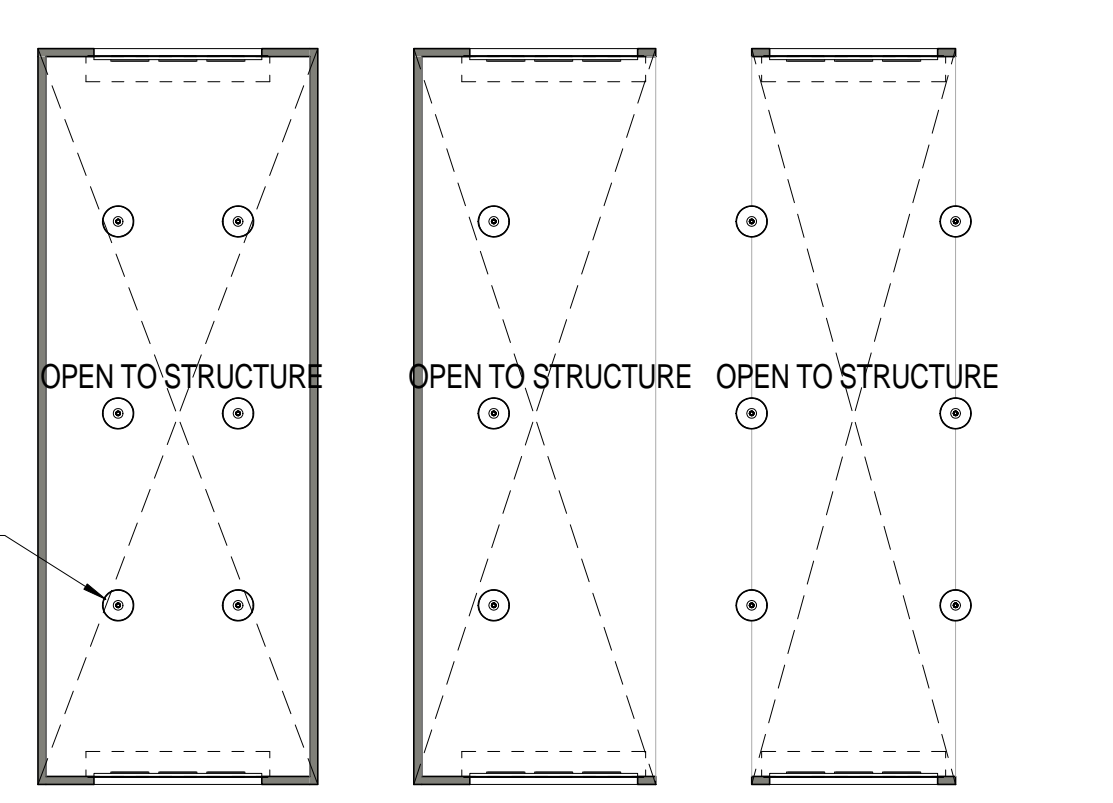
6 LARGE STRUCTURAL APPARATUS BAYS - AXONS



1 LARGE ARFF APPARATUS BAYS - FLOOR PLANS
1/16" = 1'-0"



2 LARGE ARFF APPARATUS BAYS - REFLECTED CEILING PLANS
1/16" = 1'-0"



5 LARGE STRUCTURAL APPARATUS BAYS - REFLECTED CEILING PLANS
1/16" = 1'-0"

LIGHTING FIXTURES AND LAYOUTS ARE NOTIONAL - ACTUAL FIXTURES AND LAYOUTS TO BE DESIGNED PER UFC LIGHTING CRITERIA. IT IS SUGGESTED TO NOT PLACE OVERHEAD LIGHT DIRECTLY ABOVE VEHICLES, RATHER BETWEEN OR BESIDE TO LIGHT PATH OF TRAVEL.

VEHICLE SHOWN IS FOR GRAPHIC CLARITY ONLY AND IS NOT DIMENSIONALLY ACCURATE. DIMENSIONS SHOWN ARE THE ACTUAL VEHICLE SIZES

ENERGY EFFICIENT LIGHTING WITH INSTANT START FEATURE

VEHICLE SHOWN IS FOR GRAPHIC CLARITY ONLY. DIMENSIONS SHOWN ARE THE ACTUAL VEHICLE SIZES

ENERGY EFFICIENT LIGHTING WITH INSTANT START FEATURE

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SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

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.
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APPARATUS BAY NOTES

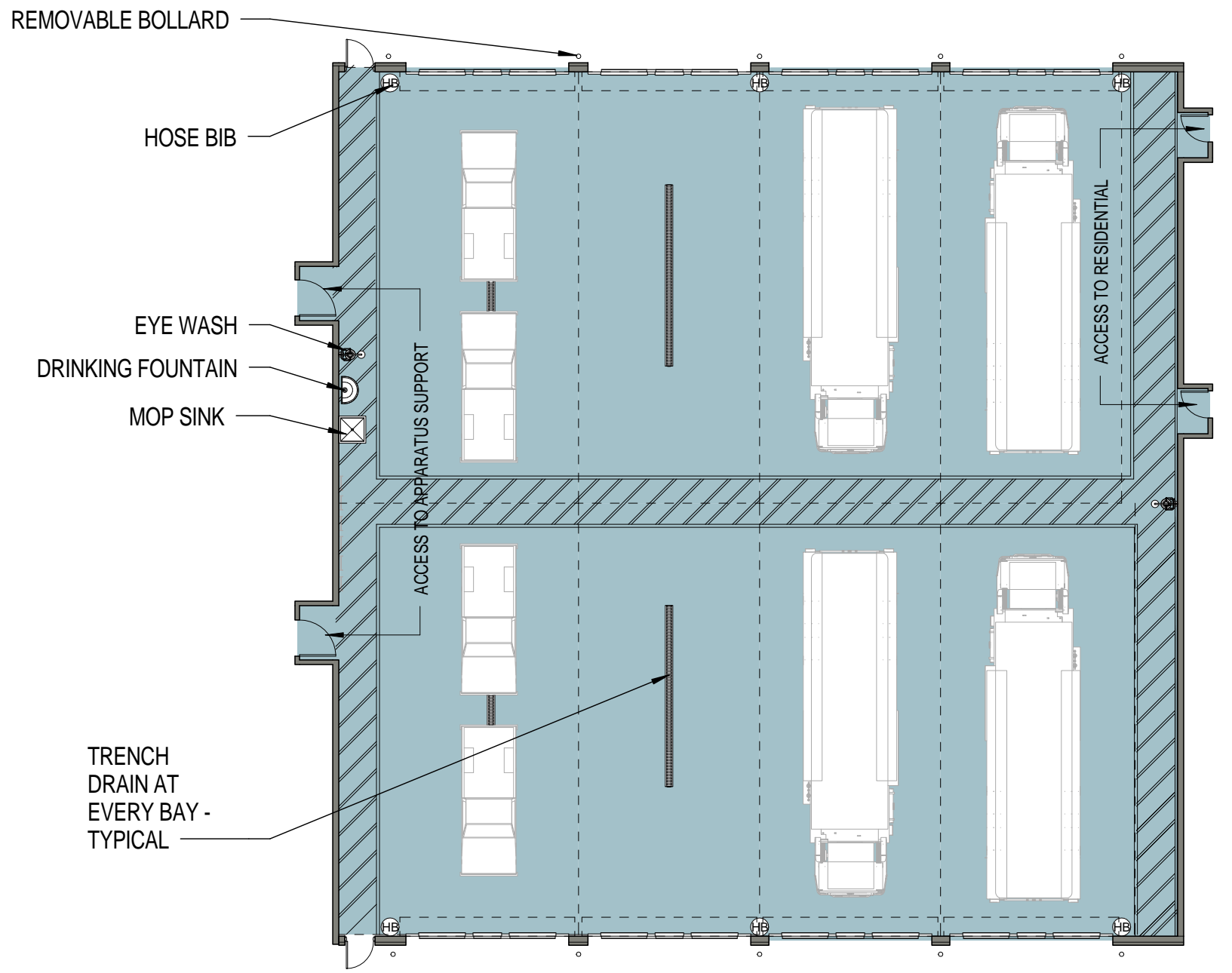
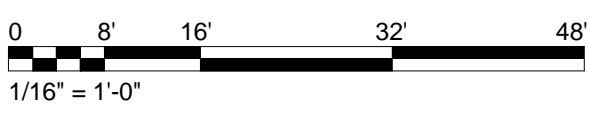
1. ALL BAYS MUST ACCOMMODATE THE LARGEST VEHICLE AND CONTAIN REQUIRED SUPPORT UTILITIES PER THE UFC.
2. DRIVE THROUGH BAYS ARE PREFERABLE.
3. BOLLARDS ARE REMOVABLE AND ARE NOTIONALLY REPRESENTED. LOCATION OF BOLLARDS SHOULD BE CASE SPECIFIC AND FOLLOW UFC GUIDELINES.
4. HEIGHT OF BAYS DETERMINED BY VEHICLE AND EQUIPMENT REQUIREMENTS PER THE UFC.
5. THIS IS A NOTIONAL CONFIGURATION/LAYOUT.

FLOOR FINISH LEGEND

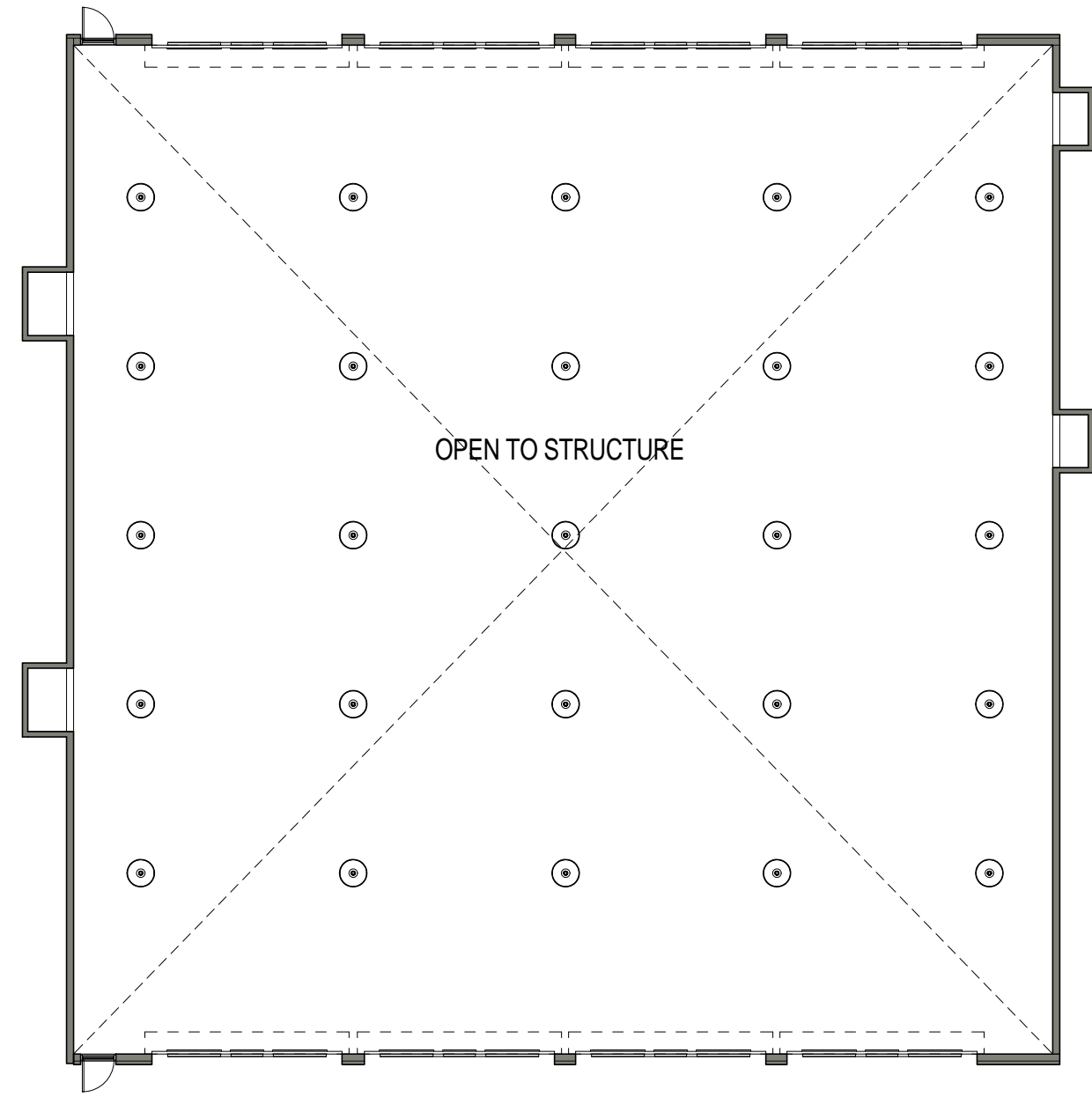
	SEALED CONCRETE
	CARPET
	CERAMIC TILE
	RUBBER SHEET
	FLOOR DRAIN
	HOSE BIB

CEILING LEGEND

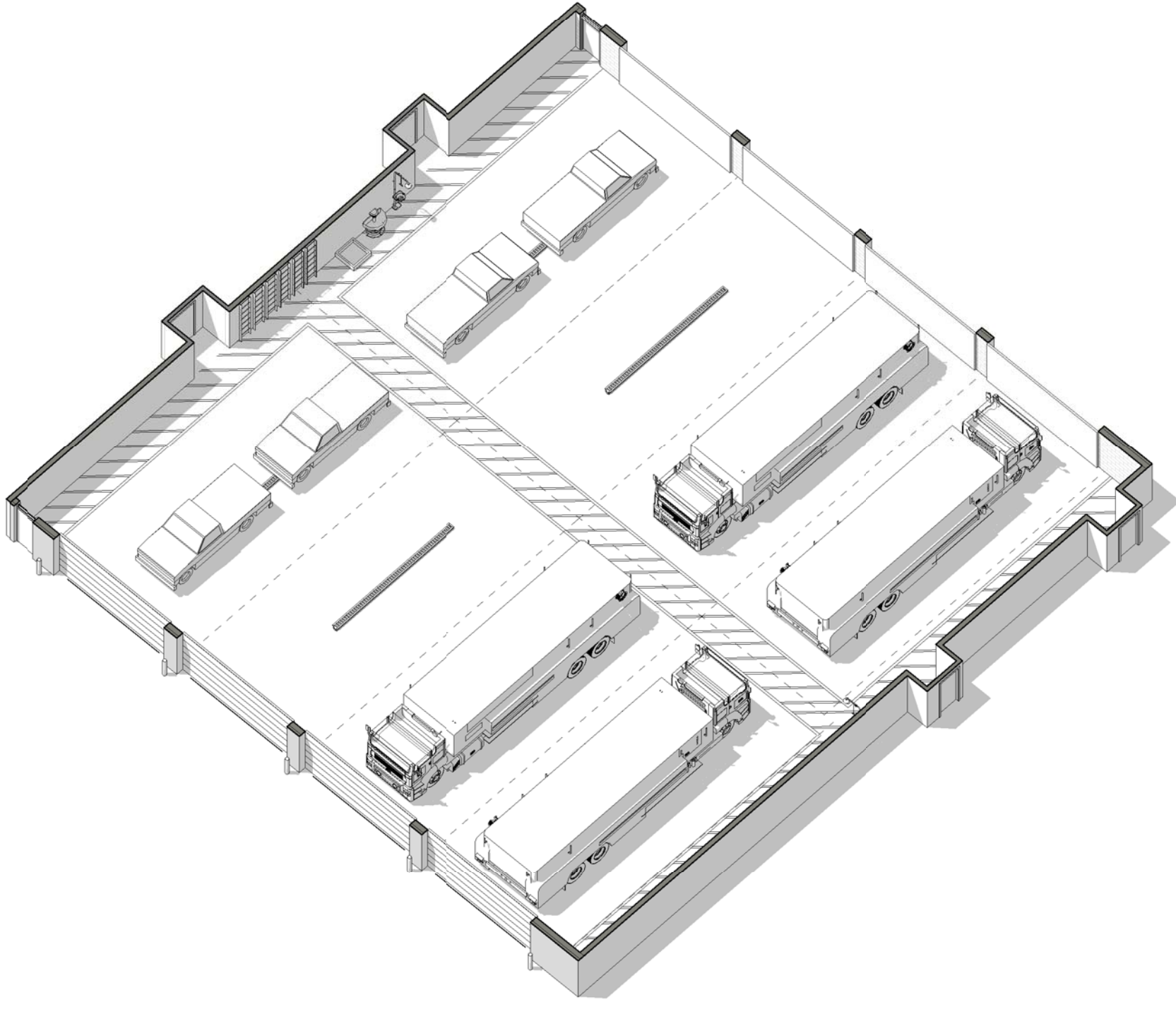
	2 X 2 ACOUSTICAL TILE		SPOT ELEVATION MARKER
	GYPSUM BOARD		RECESSED CAN LIGHT
	2'X4' LIGHT		CEILING FAN
	2'X2' LIGHT		SMALL PENDANT LIGHT
	2'X2' SUPPLY DIFFUSER		LOW BAY LIGHTING
	PENDANT LIGHT		OPEN TO STRUCTURE



① APPARATUS BAY MODULE - FLOOR PLAN
1/16" = 1'-0"



② APPARATUS BAY - REFLECTED CEILING PLAN
1/16" = 1'-0"



③ APPARATUS BAY MODULE - AXON

1/2/2014 4:28:56 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

Jacobs Project No.: FDYD3106

Drawing Title:
MODULE - APPARATUS BAYS

Date: DECEMBER 2013

Designed By: LEG
Drawing No.:
Drawn By: KIW
Checked By: JW
MO103

GENERAL NOTES

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APPARATUS SUPPORT NOTES

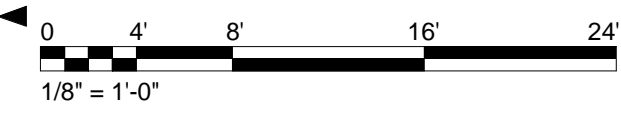
1. ALL CEILINGS ARE A MIN. OF 9'-0" UNLESS OTHERWISE NOTED.
2. ADJACENCIES BETWEEN INFECTIOUS CONTROL, EQUIPMENT WASH AND DISINFECTION, AND PROTECTIVE CLOTHING LAUNDRY SHOULD BE MAINTAINED. INFECTIOUS CONTROL REQUIRES DIRECT ACCESS TO EXTERIOR AND APPARATUS BAYS.
3. ARFF FACILITIES REQUIRE EXTERIOR COVERED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

FLOOR FINISH LEGEND

	SEALED CONCRETE
	CARPET
	CERAMIC TILE
	RUBBER SHEET
	FLOOR DRAIN
	HOSE BIB

CEILING LEGEND

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



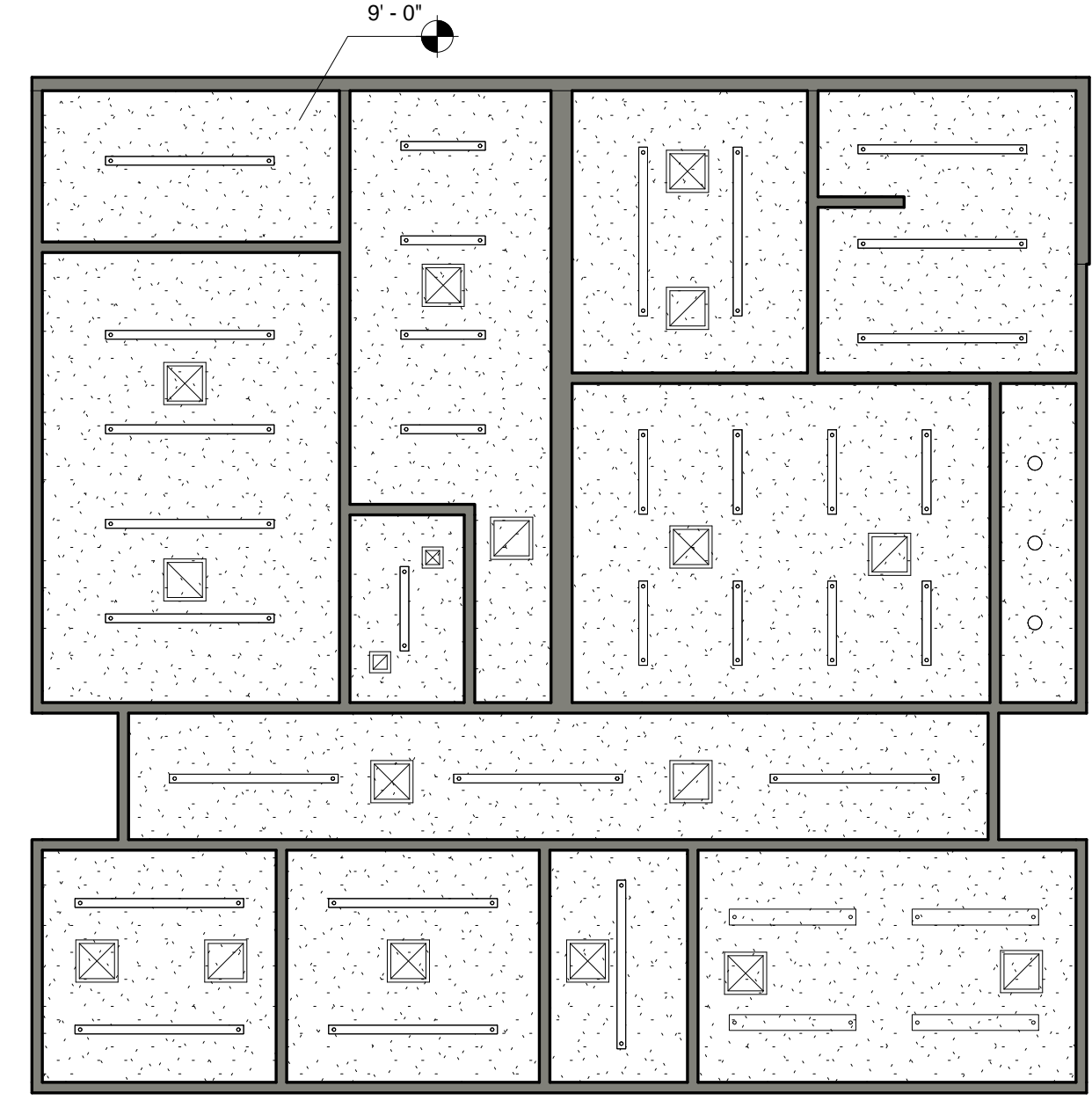
Jacobs Project No.: FDYD3106

Drawing Title:
MODULE - APPARATUS SUPPORT - SUITE

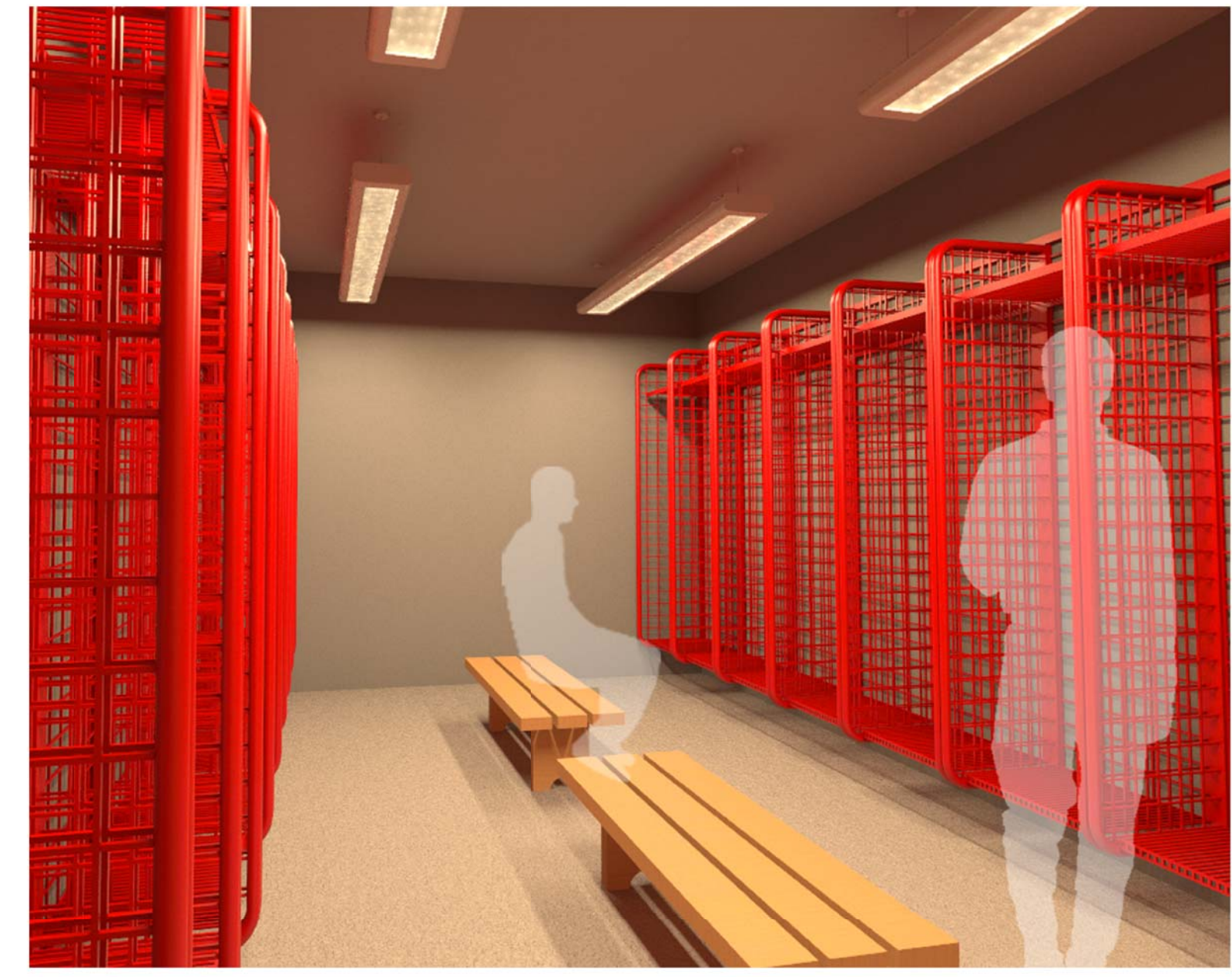
Date: DECEMBER 2013

Designed By: LEG
Drawn By: KLV
Checked By: JW

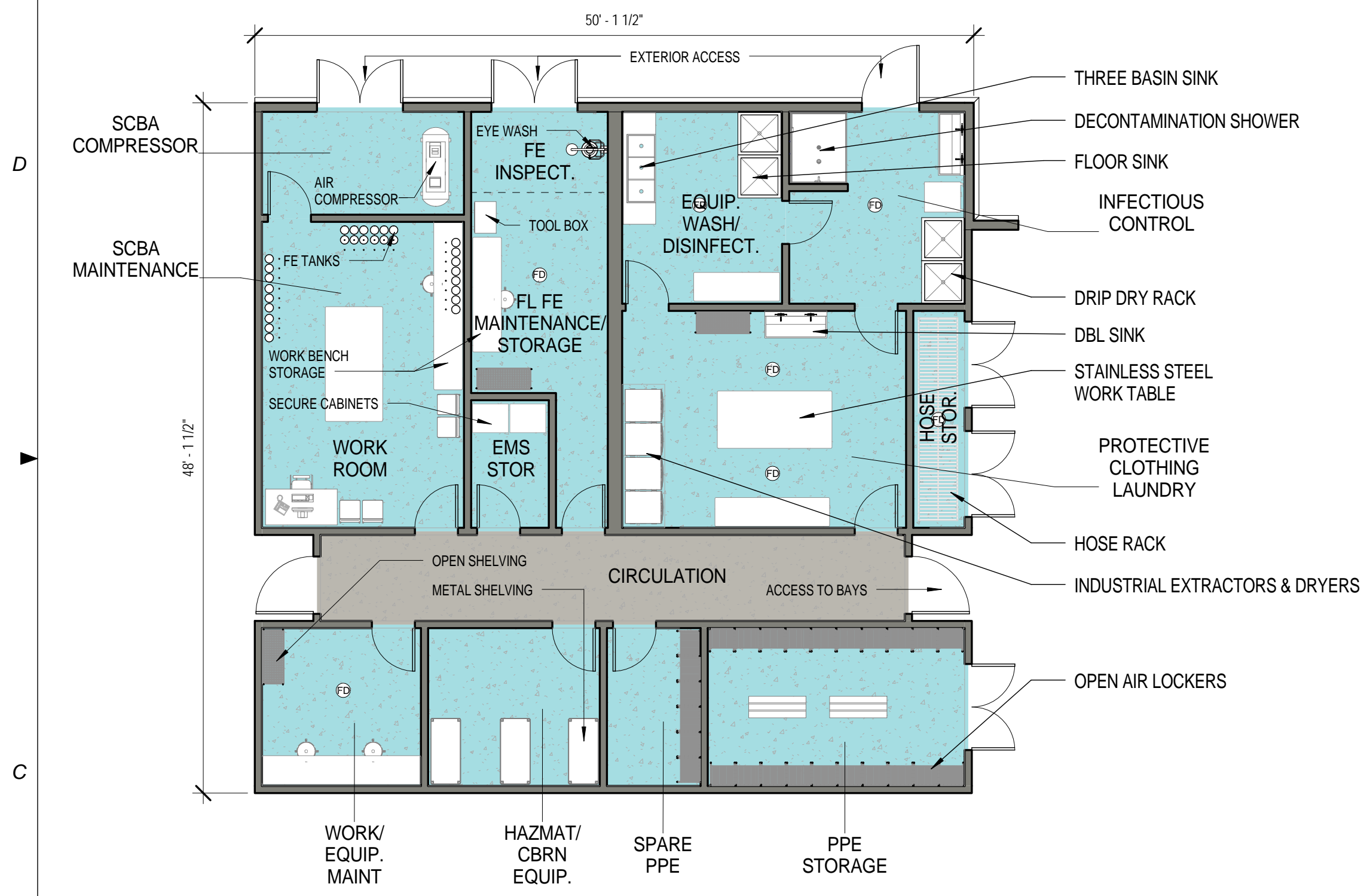
MO104



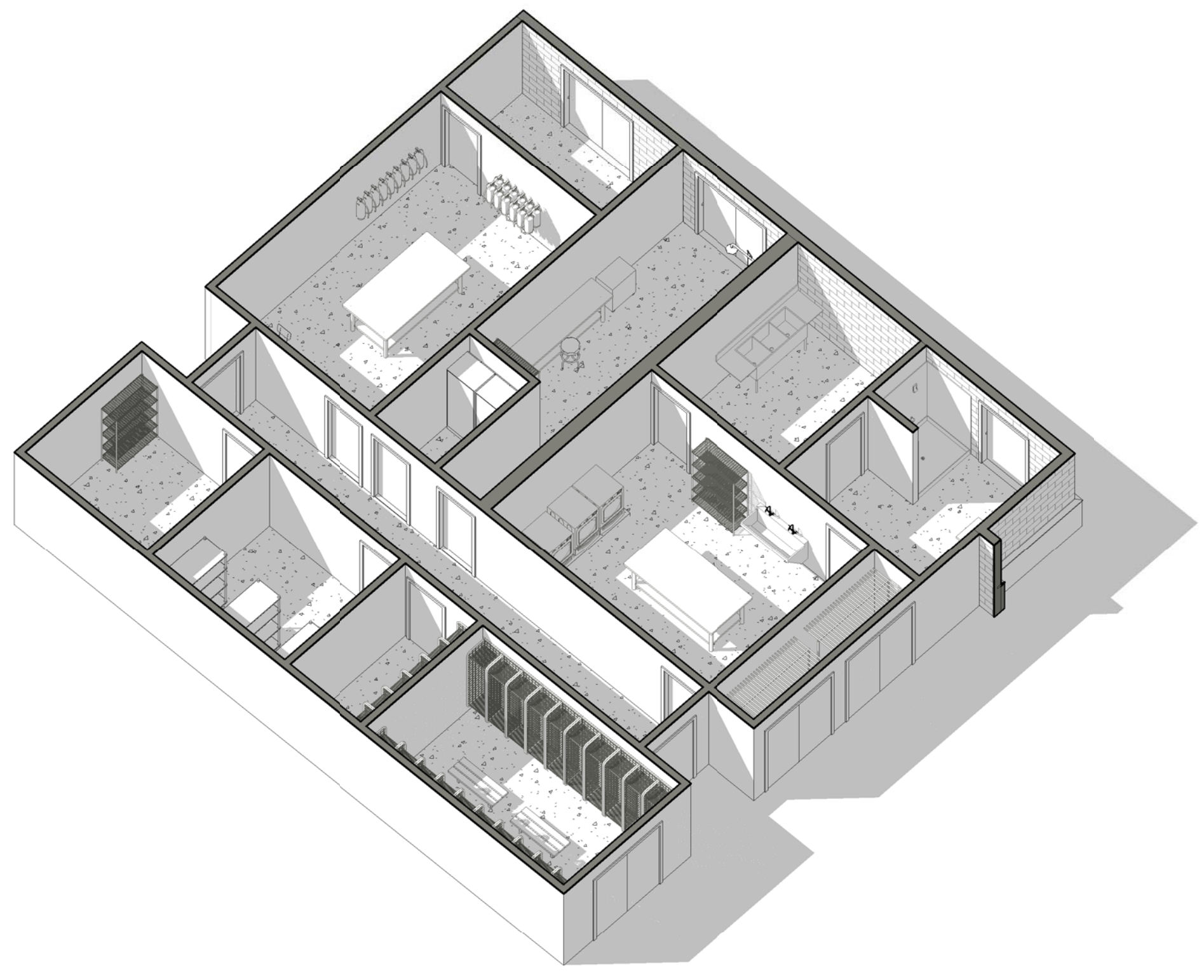
2 APPARATUS SUPPORT MODULE - REFLECTED CEILING PLAN
1/8" = 1'-0"



PPE GEAR STORAGE LOCKERS



1 APPARATUS SUPPORT MODULE - FLOOR PLAN
1/8" = 1'-0"



3 APPARATUS SUPPORT MODULE - AXON

1/2/2014 12:24:12 PM
SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

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3. ARFF FACILITIES REQUIRE EXTERIOR COVERED STORAGE - VERIFY PROGRAM AND SQUARE FOOTAGE REQUIREMENTS AS NEEDED.

FLOOR FINISH LEGEND

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

CEILING LEGEND

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

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

**FIRE STATION
HEADQUARTERS**



Jacobs Project No.: FDYD3106

Drawing Title:

**MODULE - APPARATUS
SUPPORT - LINEAR**

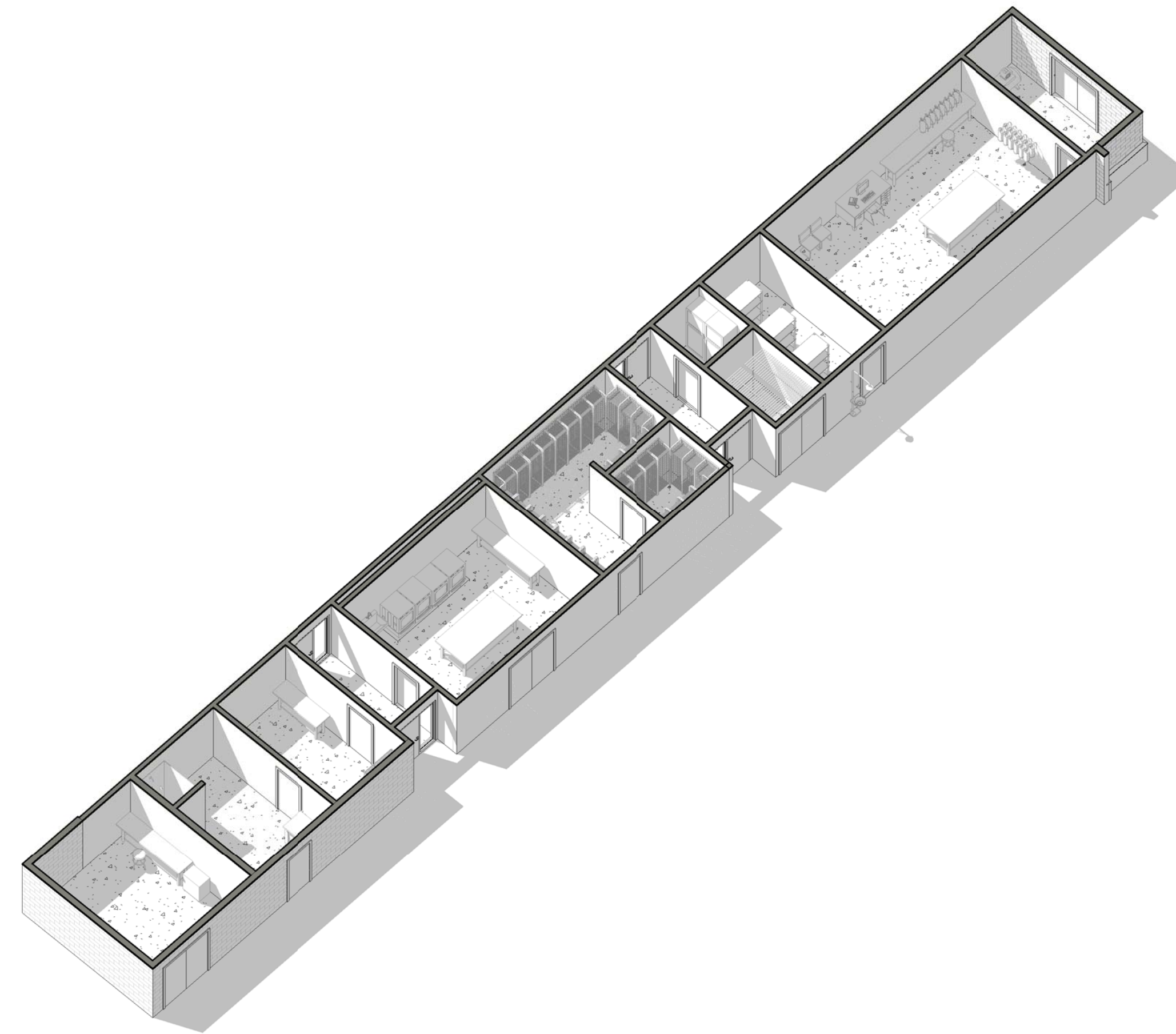
Date: DECEMBER 2013

Designed By: LEG

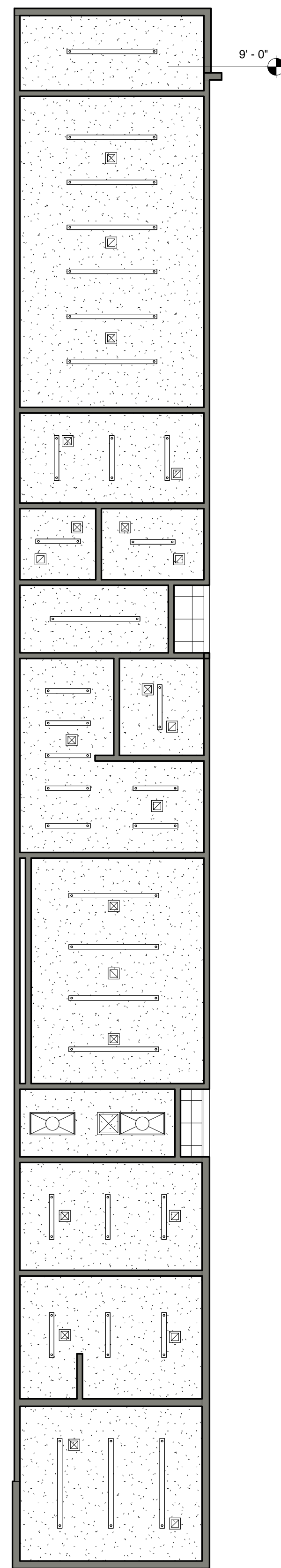
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Checked By: JW

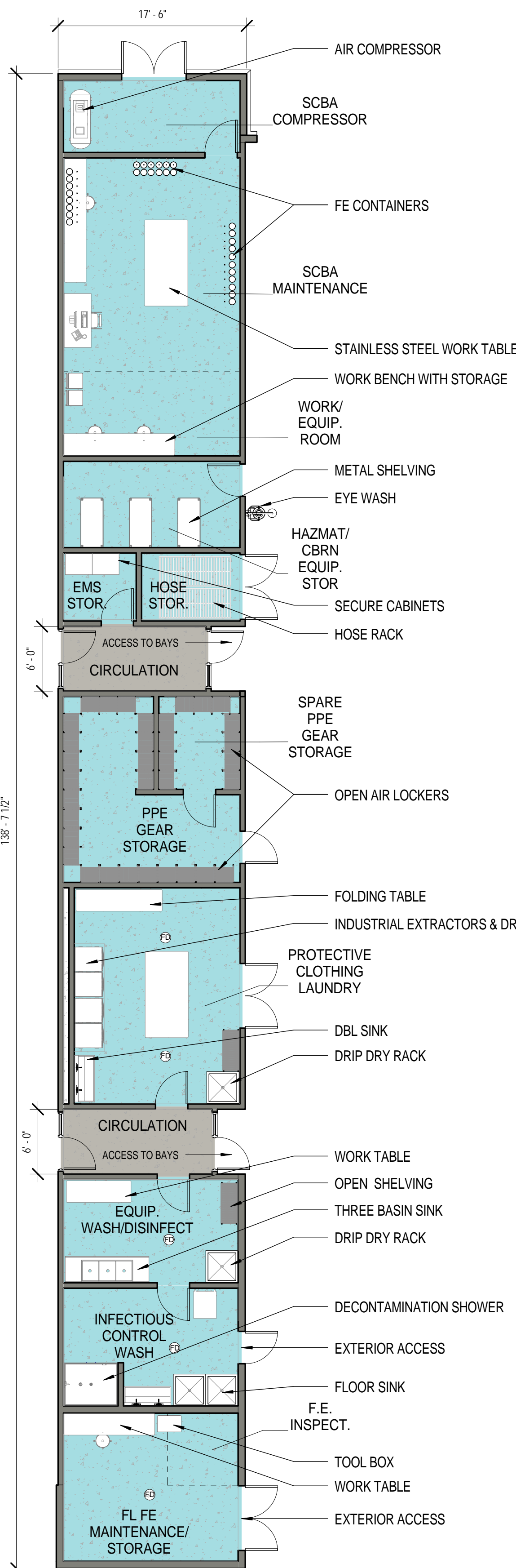
MO105



3 APPARATUS SUPPORT LINEAR MODULE - AXON



2 APPARATUS SUPPORT -
REFLECTED CEILING PLAN
1/8" = 1'-0"



1 APPARATUS SUPPORT LINEAR MODULE -
FLOOR PLAN
1/8" = 1'-0"

SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

1/2/2014 12:25:00 PM

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AGENT STORAGE NOTES

1. QUANTITY OF AGENT STORAGE TO BE DETERMINED BY USER & MISSION CRITICAL REQUIREMENTS.

FLOOR FINISH LEGEND

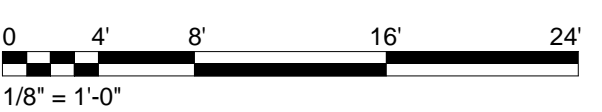
	SEALED CONCRETE
	CARPET
	CERAMIC TILE
	RUBBER SHEET
	FLOOR DRAIN
	HOSE BIB

CEILING LEGEND

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

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

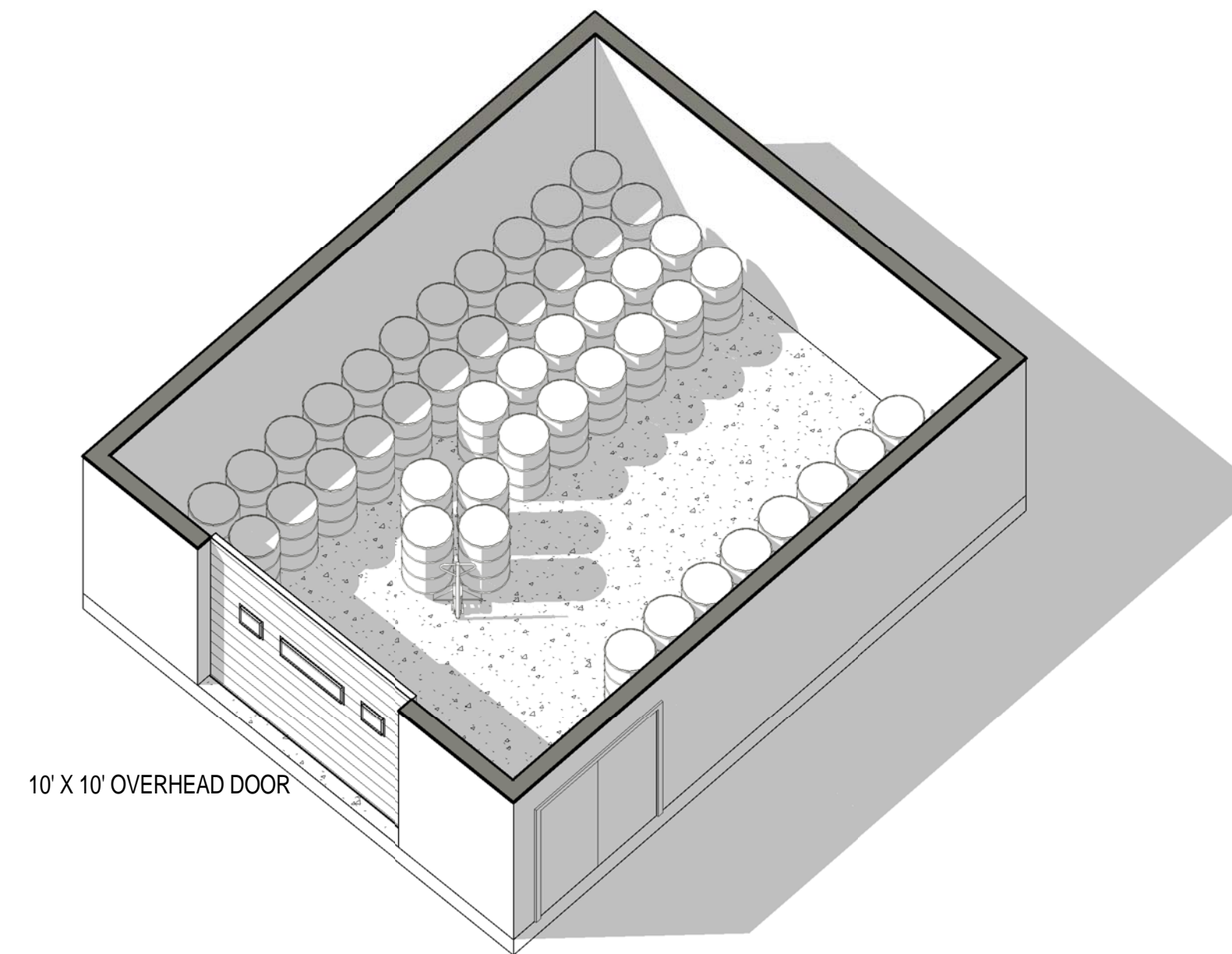
**FIRE STATION
HEADQUARTERS**



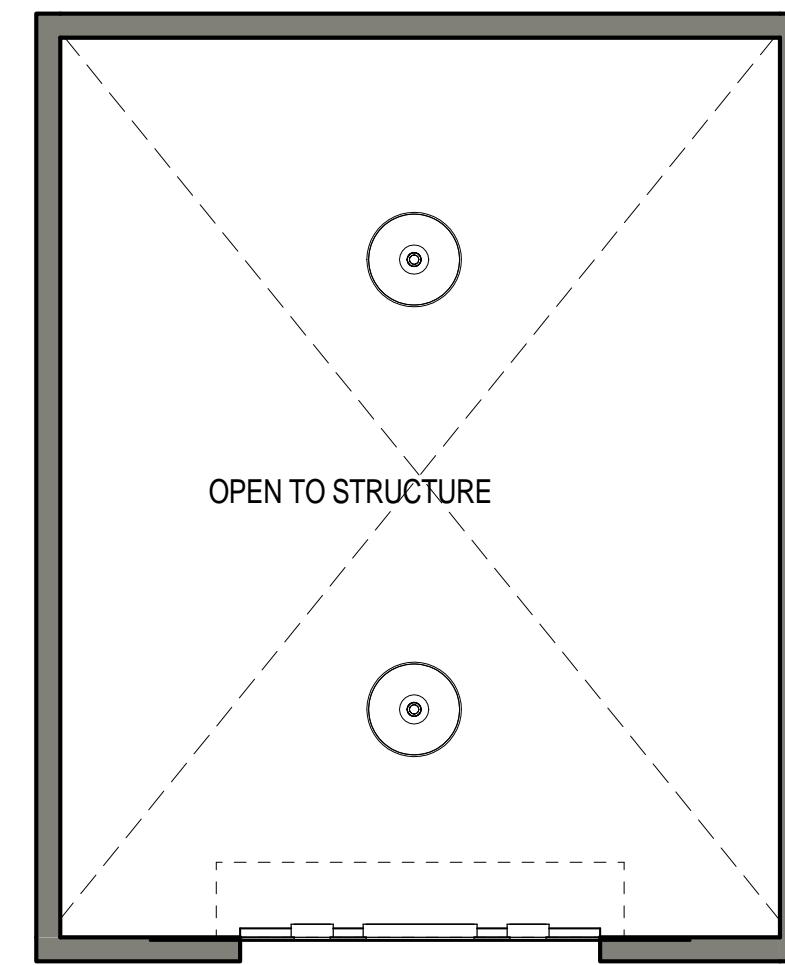
Jacobs Project No.: FDYD3106

Drawing Title:
MODULE - BUILDING SUPPORT

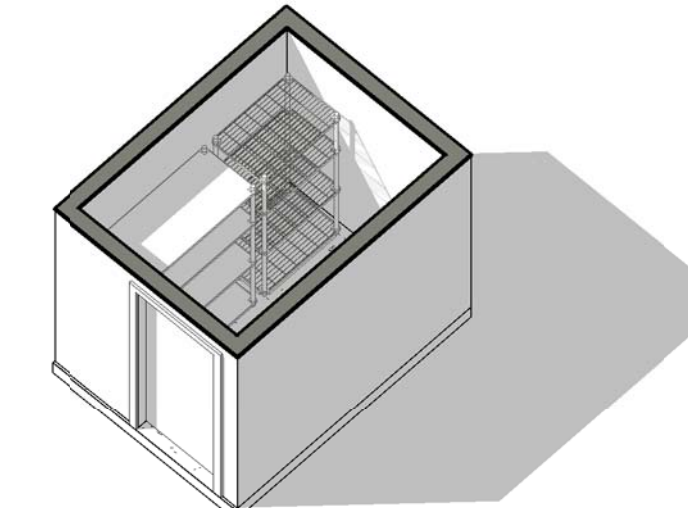
Date: DECEMBER 2013
Designed By: LEG
Drawn By: KLW
Checked By: JW
Drawing No.: **MO106**



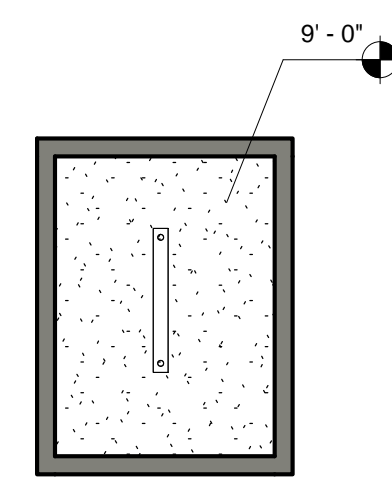
3 AGENT STORAGE MODULE - AXON



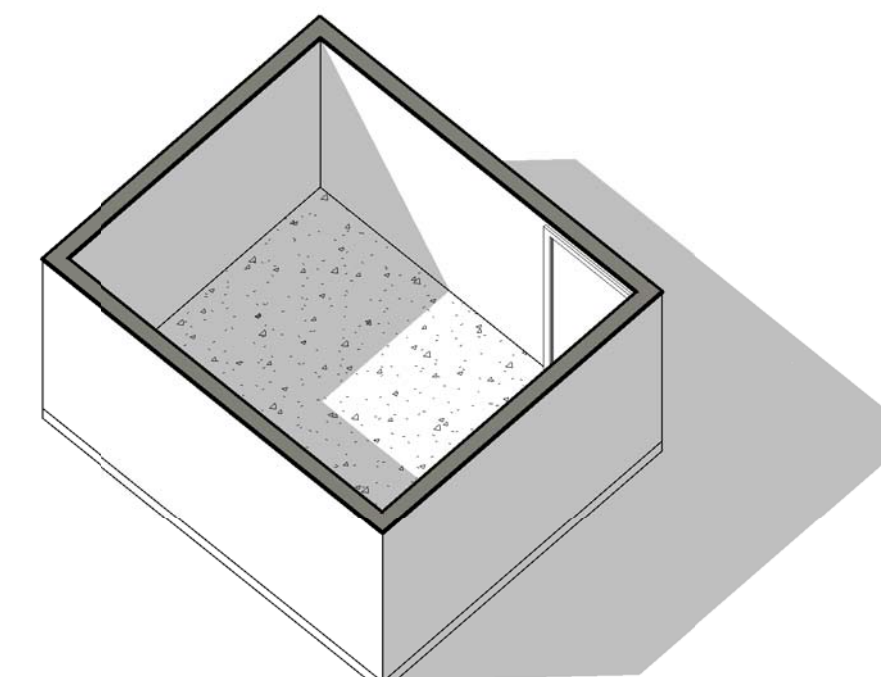
2 AGENT STORAGE MODULE - REFLECTED CEILING PLAN
3/16" = 1'-0"



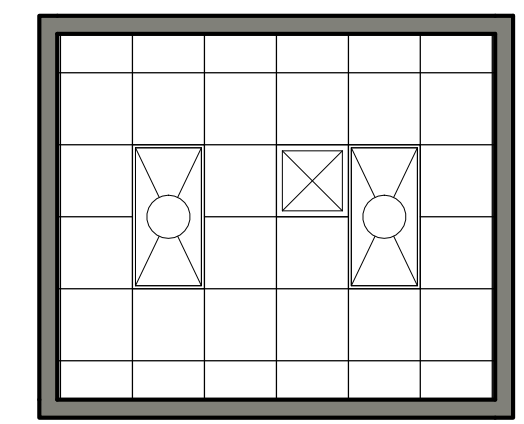
6 JANITOR - AXON



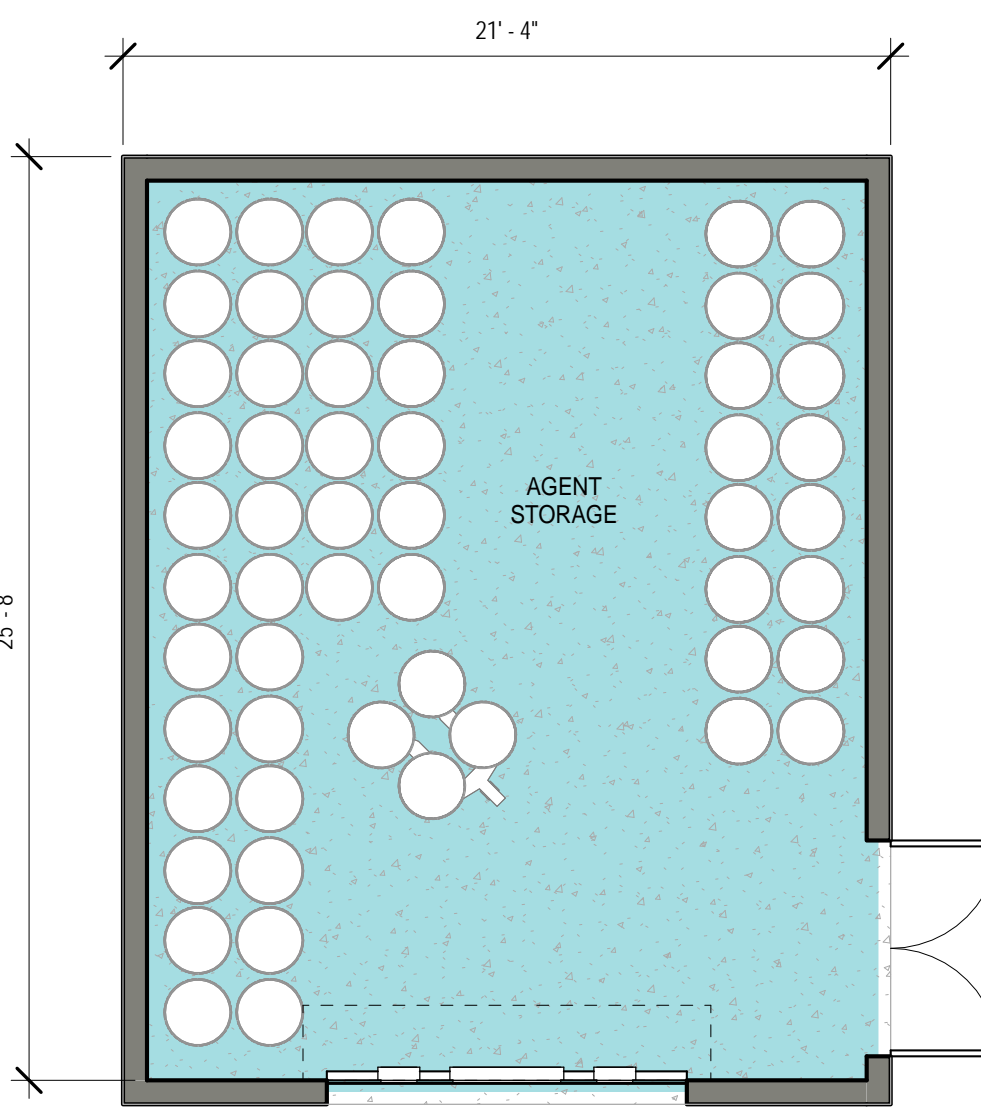
5 JANITOR - REFLECTED CEILING PLAN
3/16" = 1'-0"



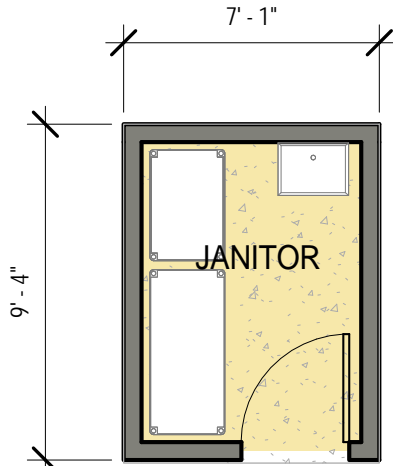
9 BASE IT/COMM HQ - AXON



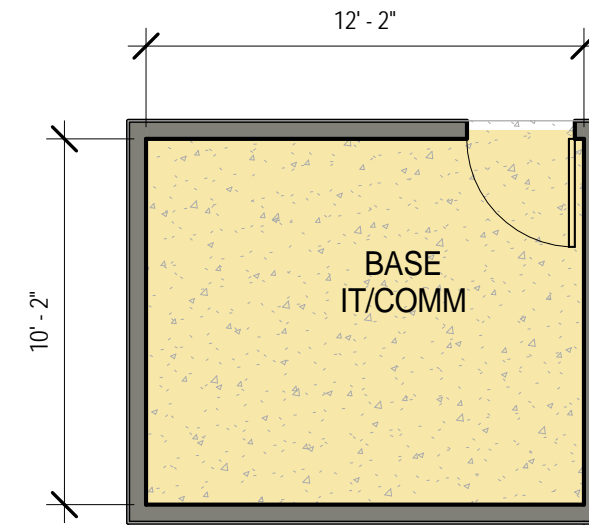
8 BASE IT/COMM - REFLECTED CEILING PLAN
3/16" = 1'-0"



1 AGENT STORAGE MODULE - FLOOR PLAN
3/16" = 1'-0"



4 JANITOR - FLOOR PLAN
3/16" = 1'-0"



7 BASE IT/COMM - FLOOR PLAN
3/16" = 1'-0"

1/2/2014 12:25:34 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

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DAY ROOM AND RESIDENTIAL NOTES

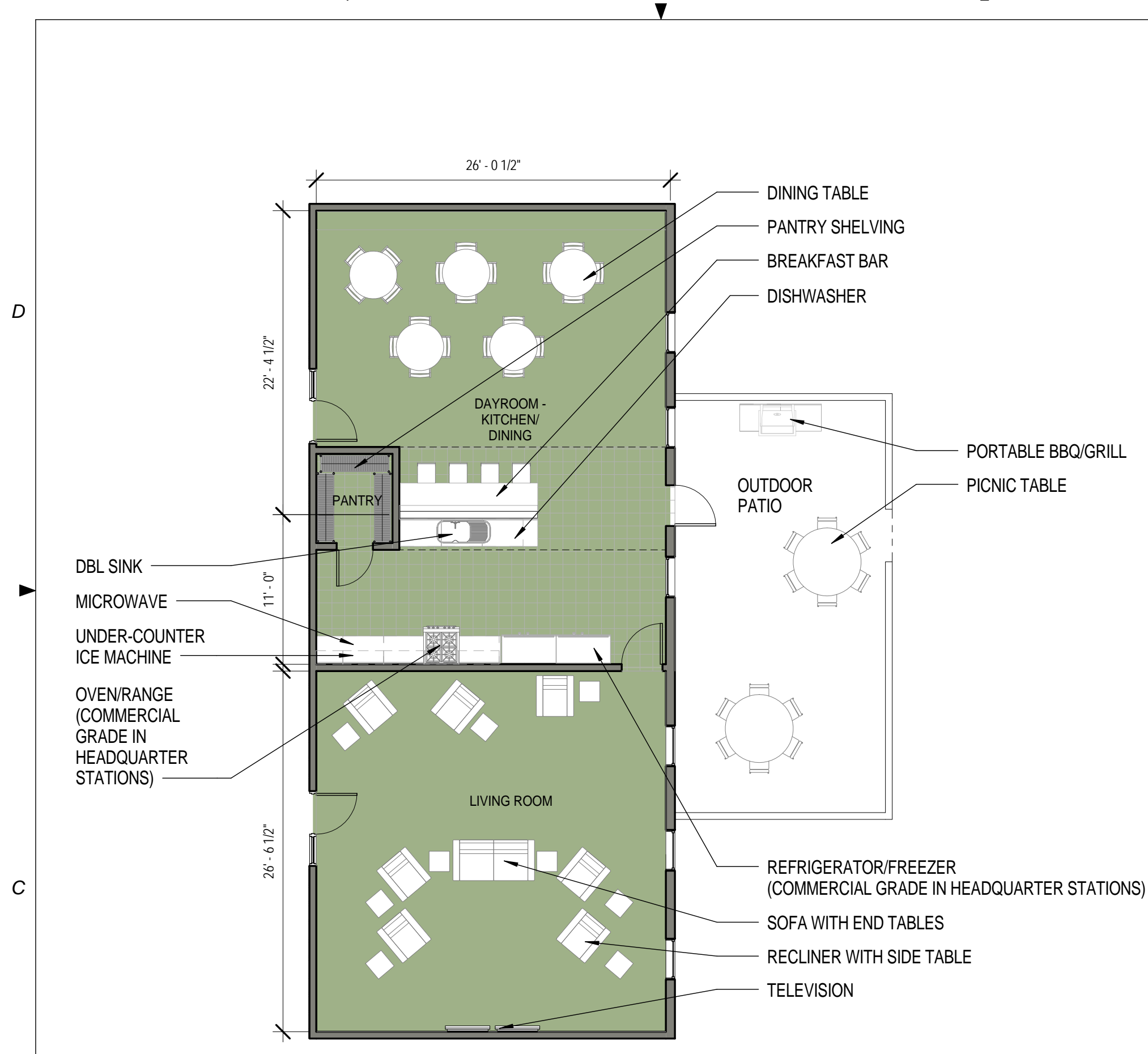
1. MAINTAIN KITCHEN AND DINING ADJACENCIES. LIVING ROOM MAY BE A SEPARATE SPACE IF LAYOUT REQUIRES IT.
2. COVERED OUTDOOR PATIO SHOULD HAVE DIRECT ACCESS TO THE KITCHEN AND DINING PROGRAM.

FLOOR FINISH LEGEND

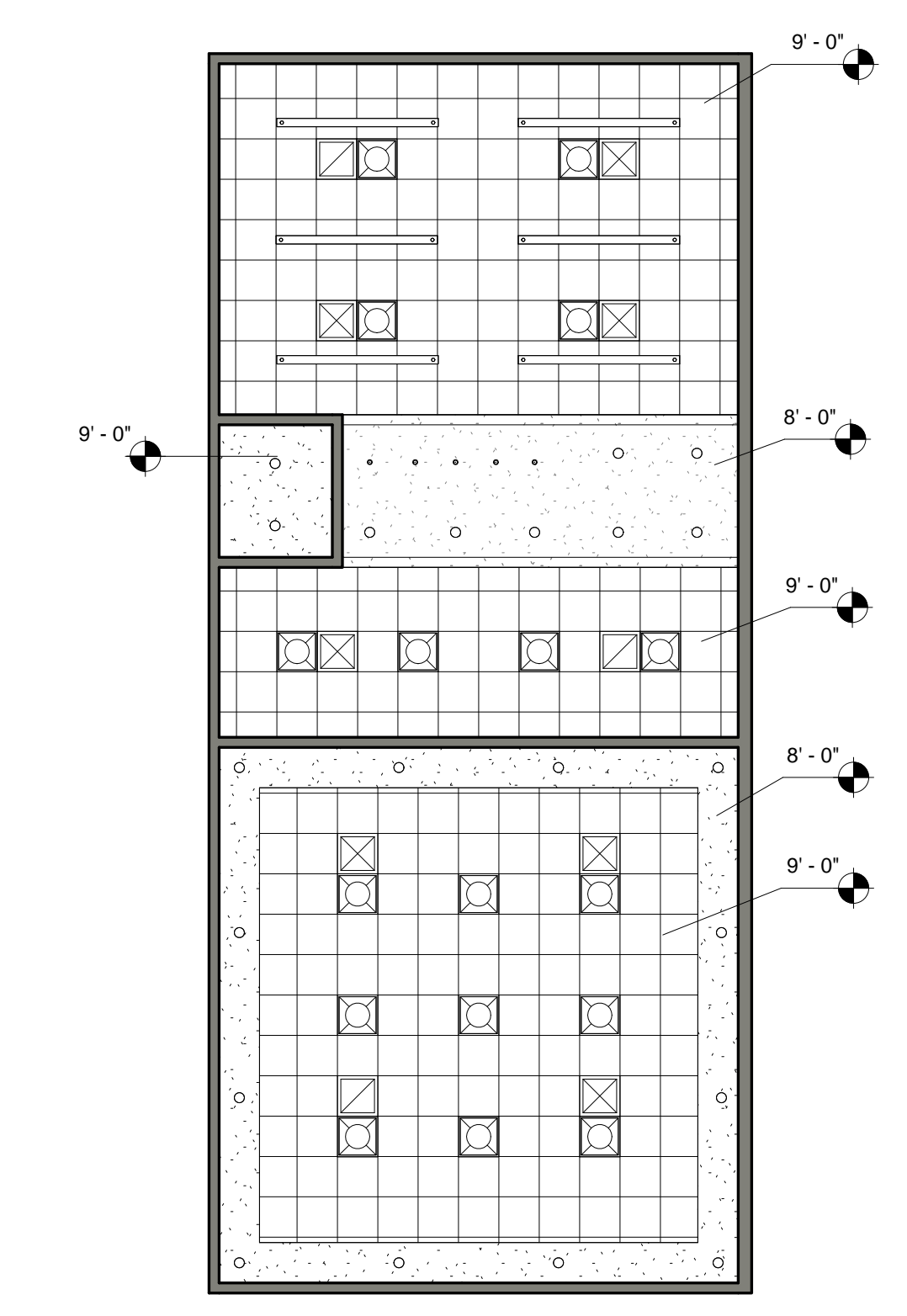
- SEALED CONCRETE
- CARPET
- CERAMIC TILE
- RUBBER SHEET
- FLOOR DRAIN
- HOSE BIB

CEILING LEGEND

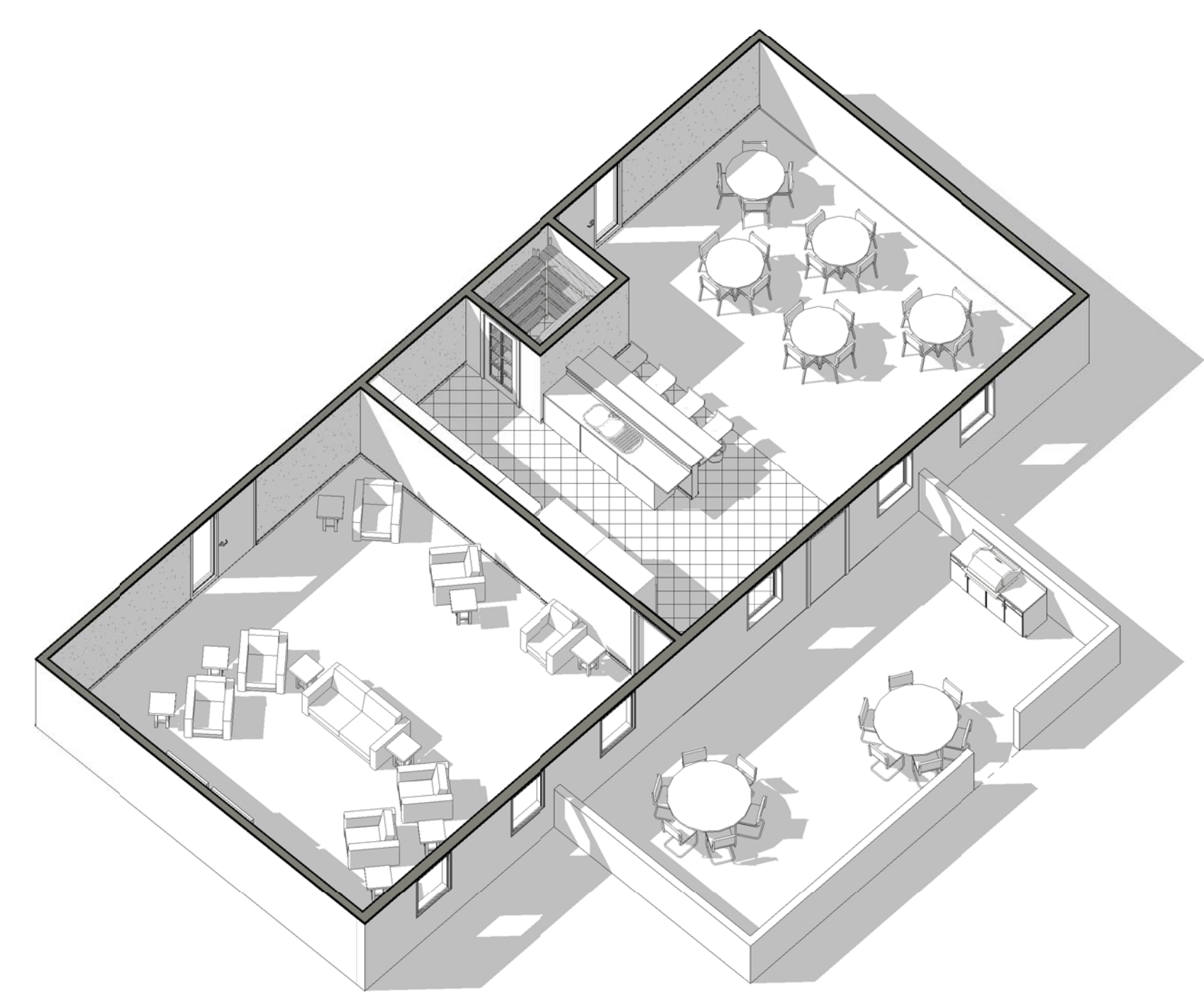
- 2 X 2 ACOUSTICAL TILE
- GYPSUM BOARD
- 2'X4' LIGHT
- 2'X2' LIGHT
- 2'X2' SUPPLY DIFFUSER
- PENDANT LIGHT
- SPOT ELEVATION MARKER
- RECESSED CAN LIGHT
- CEILING FAN
- SMALL PENDANT LIGHT
- LOW BAY LIGHTING
- OPEN TO STRUCTURE



1 DAY ROOM (KITCHEN, LIVING, DINING) - FLOOR PLAN
1/8" = 1'-0"



2 DAY ROOM (KITCHEN, LIVING, DINING) - REFLECTED CEILING PLAN
1/8" = 1'-0"



3 DAY ROOM (KITCHEN, LIVING, DINING) - AXON



DAY ROOM - KITCHEN/DINING

1/2/2014 12:25:55 PM
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RESTROOM NOTES

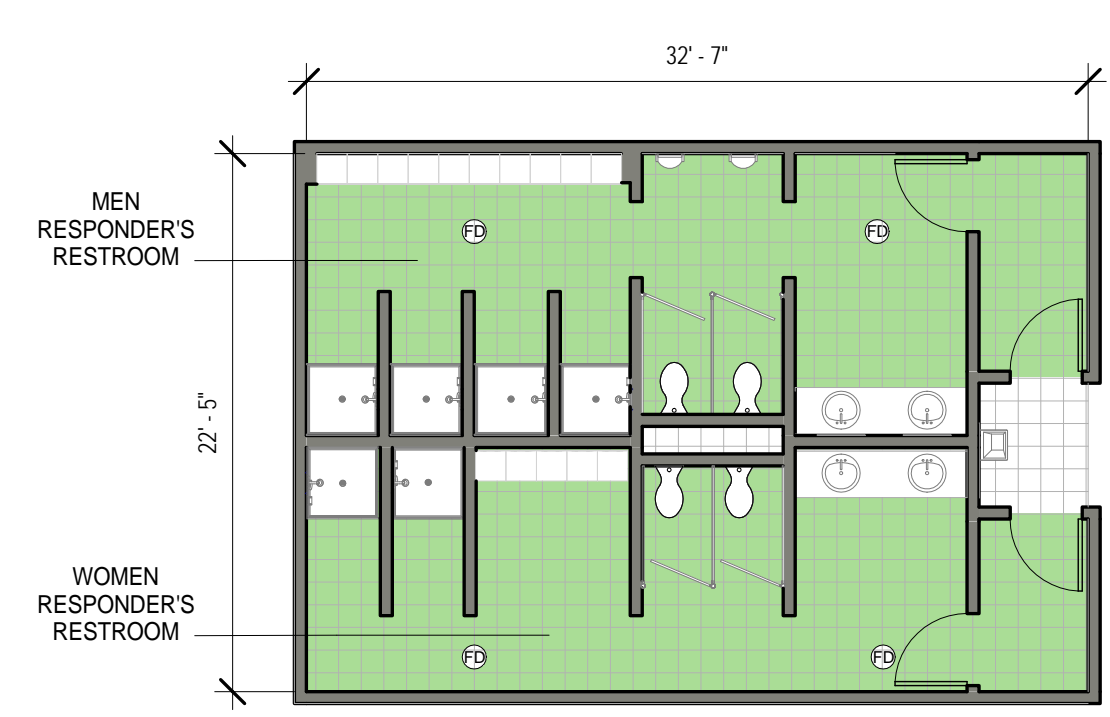
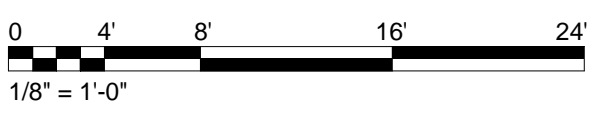
1. CONSULT WITH USER AND LOCAL CODES FOR FINAL FIXTURE COUNTS IN RESPONDER RESTROOM. CONSIDER THE HEAVY, CONCENTRATED USAGE OF FACILITY AFTER A CALL.

FLOOR FINISH LEGEND

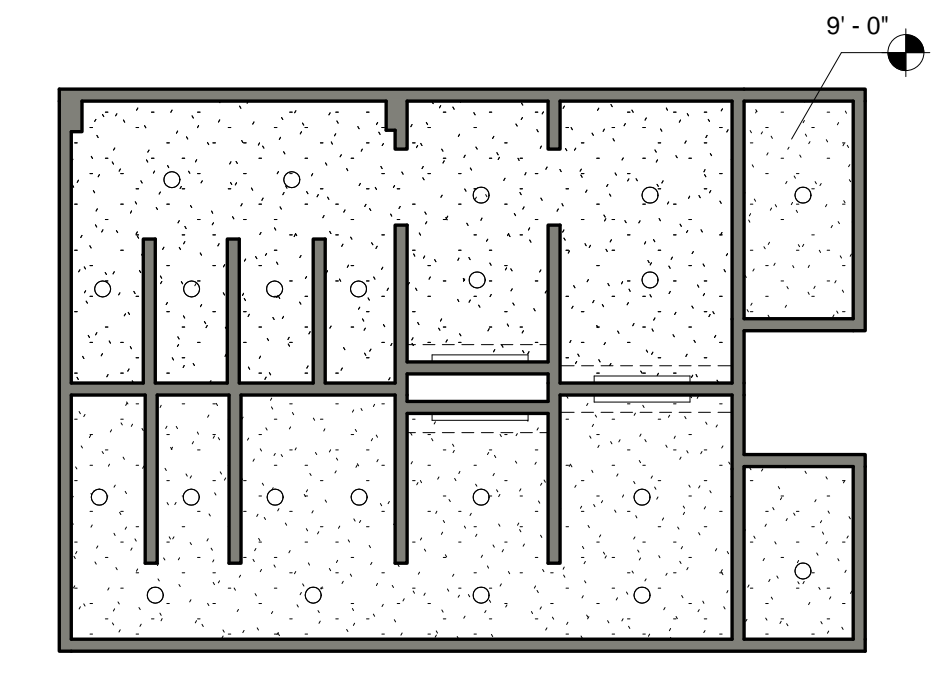
- SEALED CONCRETE
- CARPET
- CERAMIC TILE
- RUBBER SHEET
- FLOOR DRAIN
- HOSE BIB

CEILING LEGEND

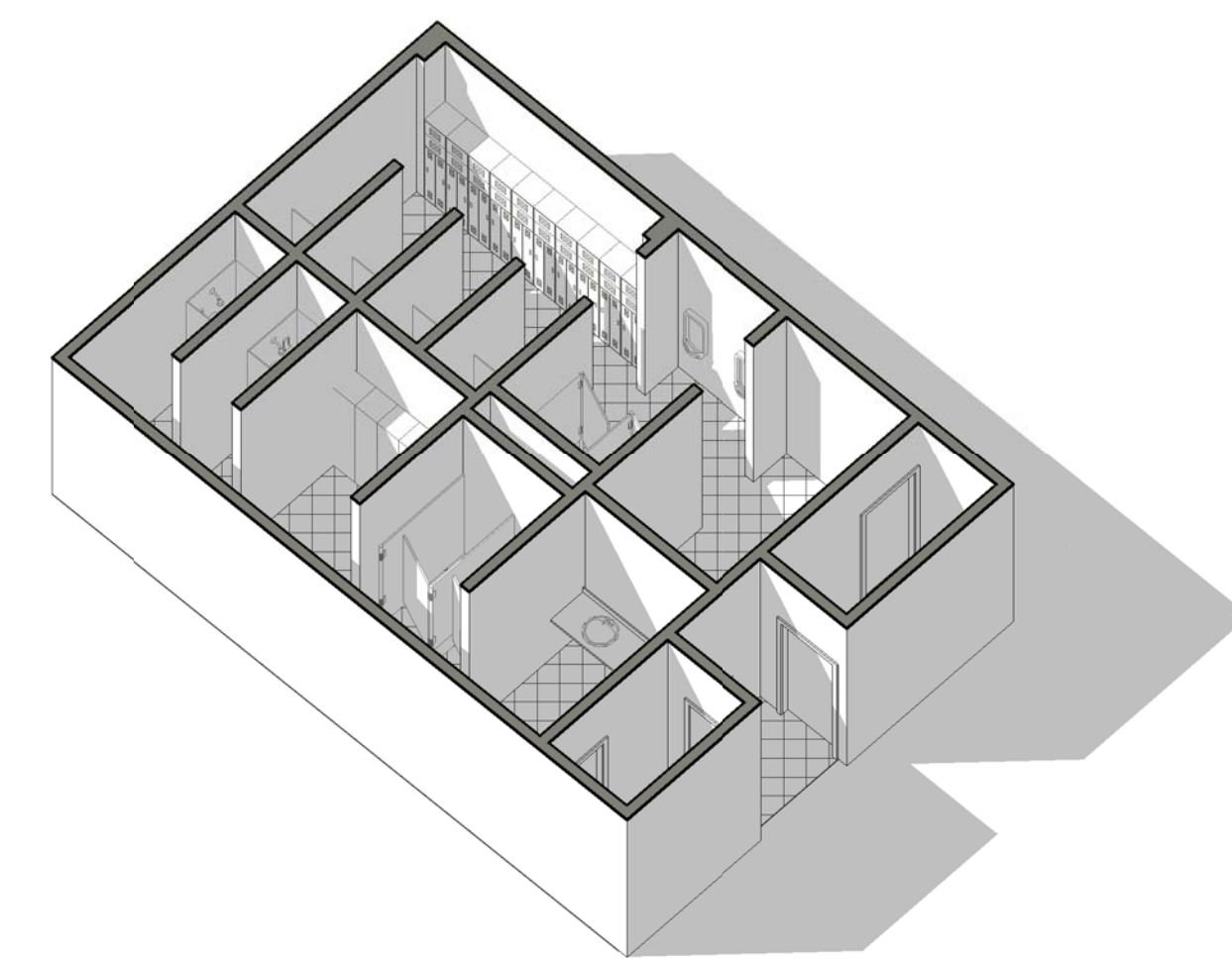
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- GYPSUM BOARD
- 2'X4' LIGHT
- 2'X2' LIGHT
- 2'X2' SUPPLY DIFFUSER
- PENDANT LIGHT
- SPOT ELEVATION MARKER
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- SMALL PENDANT LIGHT
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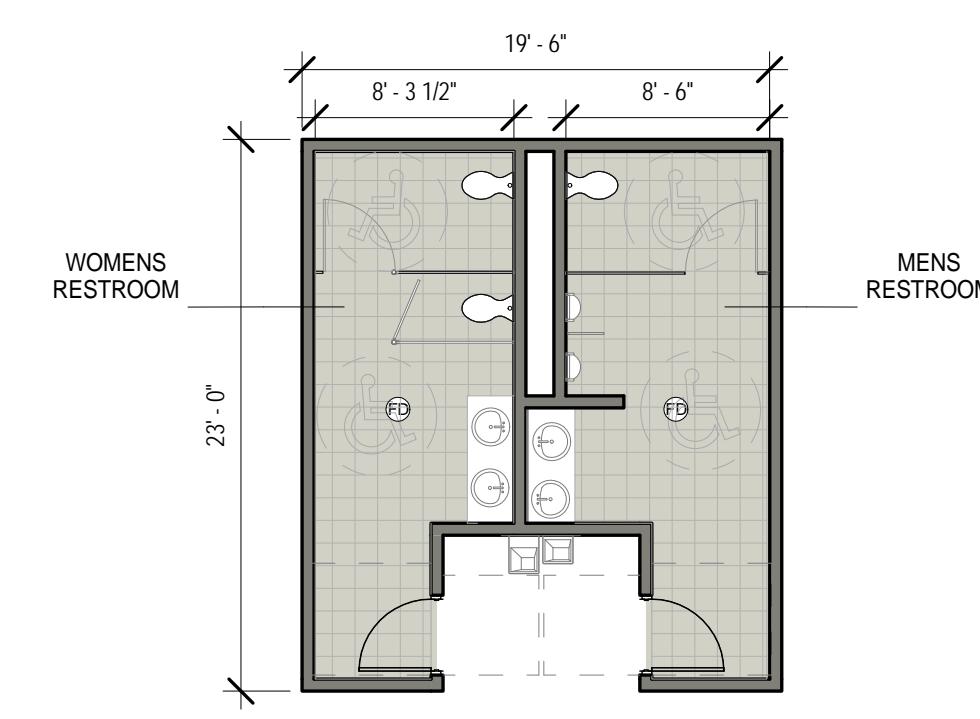
1 RESPONDER'S RESTROOMS - FLOOR PLAN
1/8" = 1'-0"



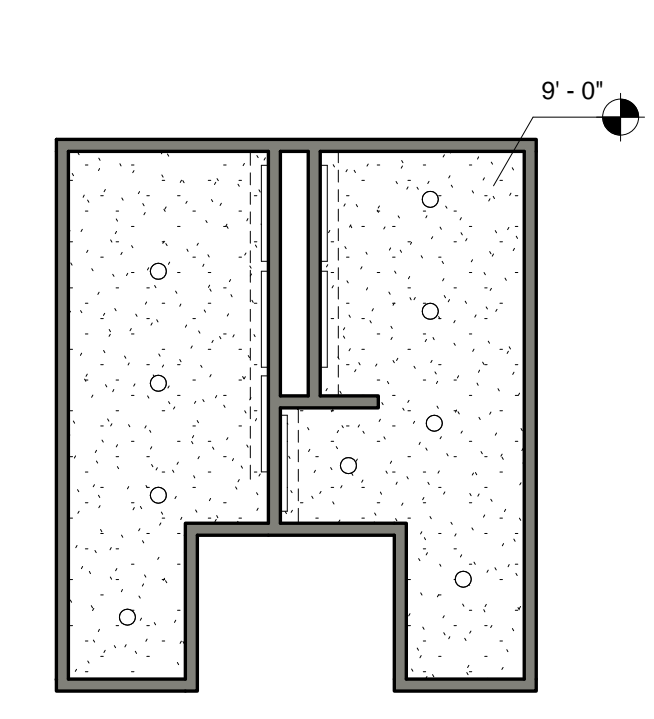
2 RESPONDER'S RESTROOMS - REFLECTED CEILING PLAN
1/8" = 1'-0"



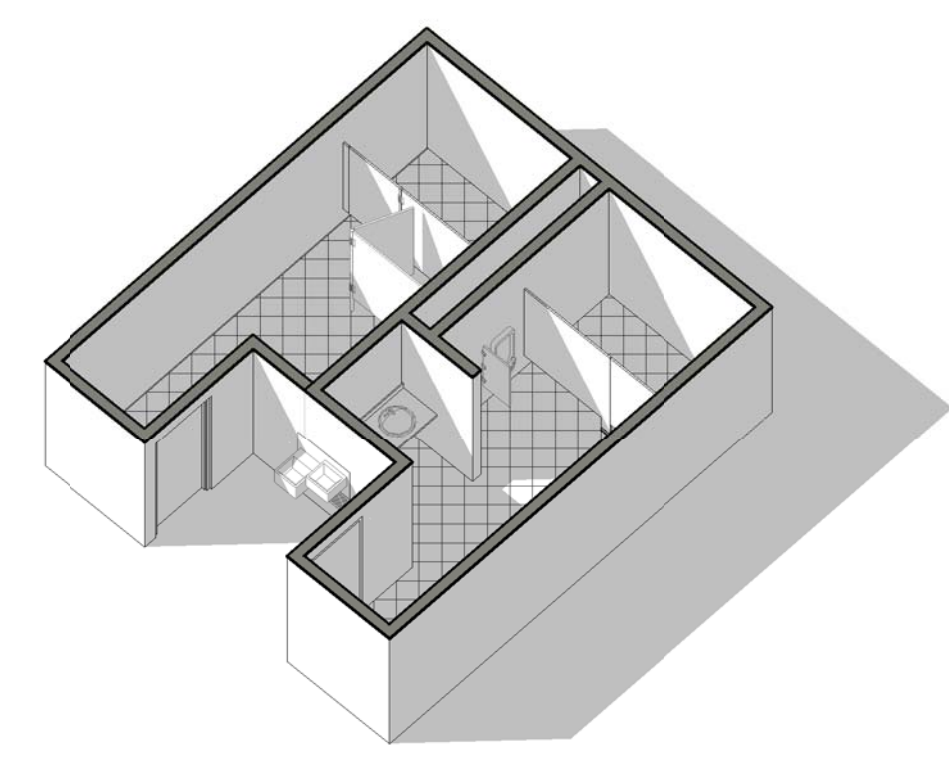
3 RESPONDER'S RESTROOMS - AXON



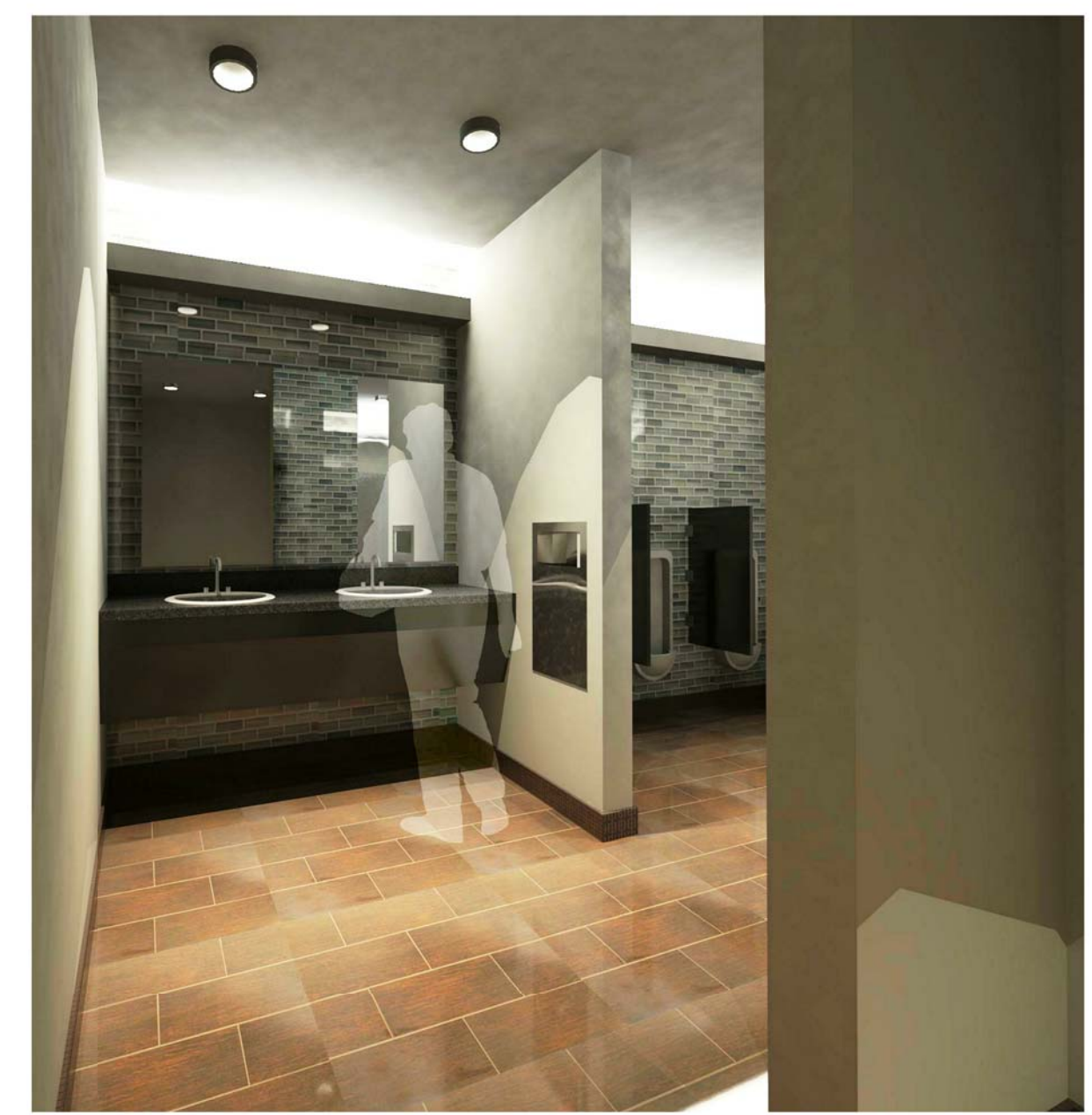
4 ADMINISTRATION RESTROOMS - FLOOR PLAN
1/8" = 1'-0"



5 ADMINISTRATION RESTROOMS - REFLECTED CEILING PLAN
1/8" = 1'-0"



6 ADMINISTRATION RESTROOMS - AXON



RESPONDER RESTROOM



RESPONDER RESTROOM - LOCKER RM

1/2/2014 4:36:07 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

GENERAL NOTES

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3. EVERY WALL IS A PLACE HOLDER.
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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 COMPANIES AND/OR STAFFED VEHICLES - REFERENCE BASE REQUIREMENTS FOR EXACT LOADS.
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DORM ROOM NOTES

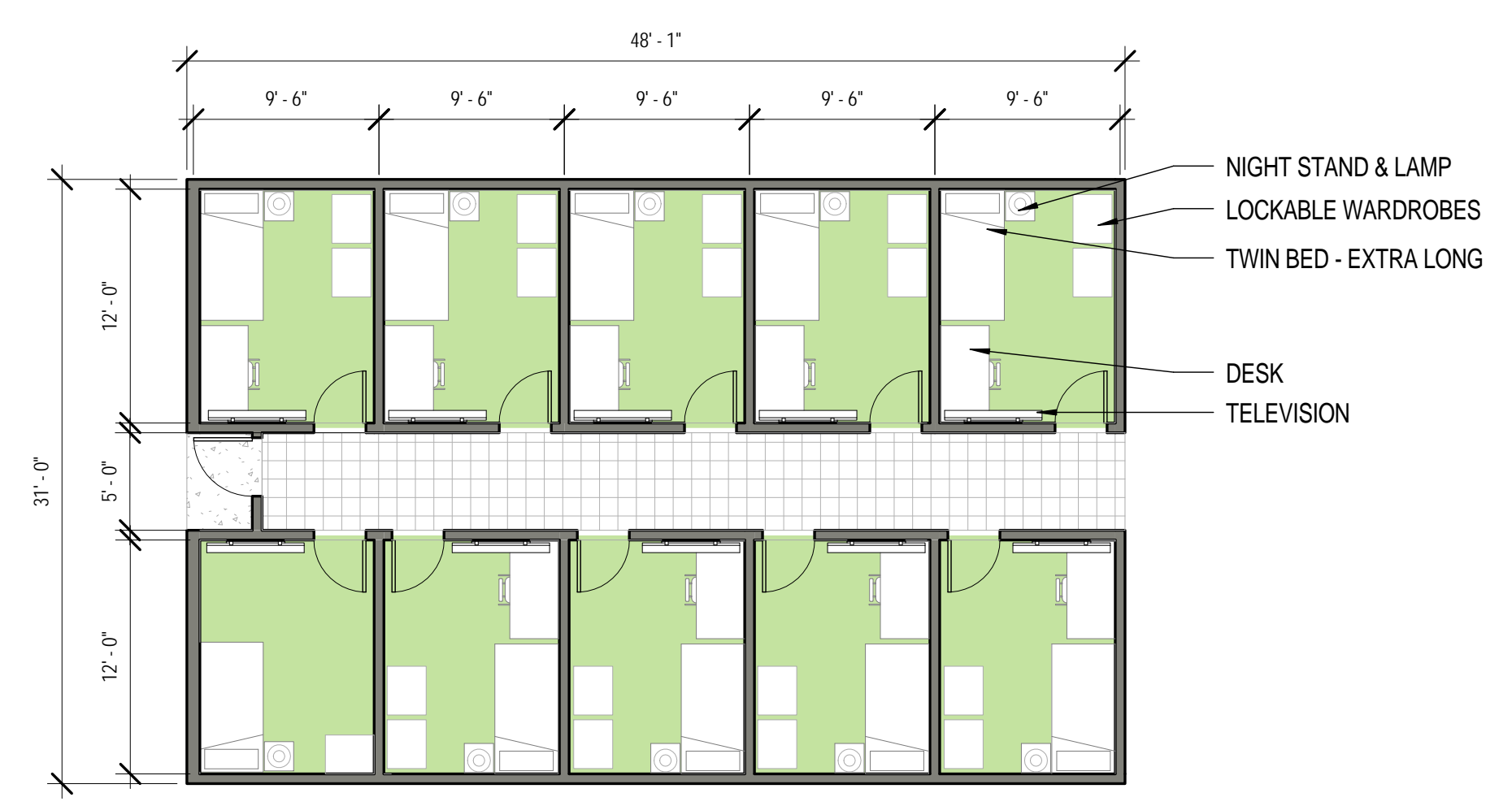
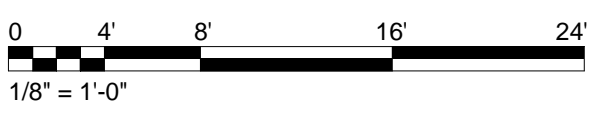
1. BED IS SHARED BETWEEN TWO SHIFTS, WITH LINENS REPLACED AFTER EACH SHIFT.
2. EACH FIREFIGHTER HAS HIS/HER OWN LOCKABLE WARDROBE.
3. NUMBER OF DORMS DEPENDANT UPON NUMBER OF RESPONDERS ON DUTY. INCLUDE DORM FOR STATION OFFICER. STATION OFFICER'S OFFICE SHOULD HAVE DIRECT ACCESS TO DORM WHEN POSSIBLE.
4. CONFIGURATION IS A NOTIONAL LAYOUT.

FLOOR FINISH LEGEND

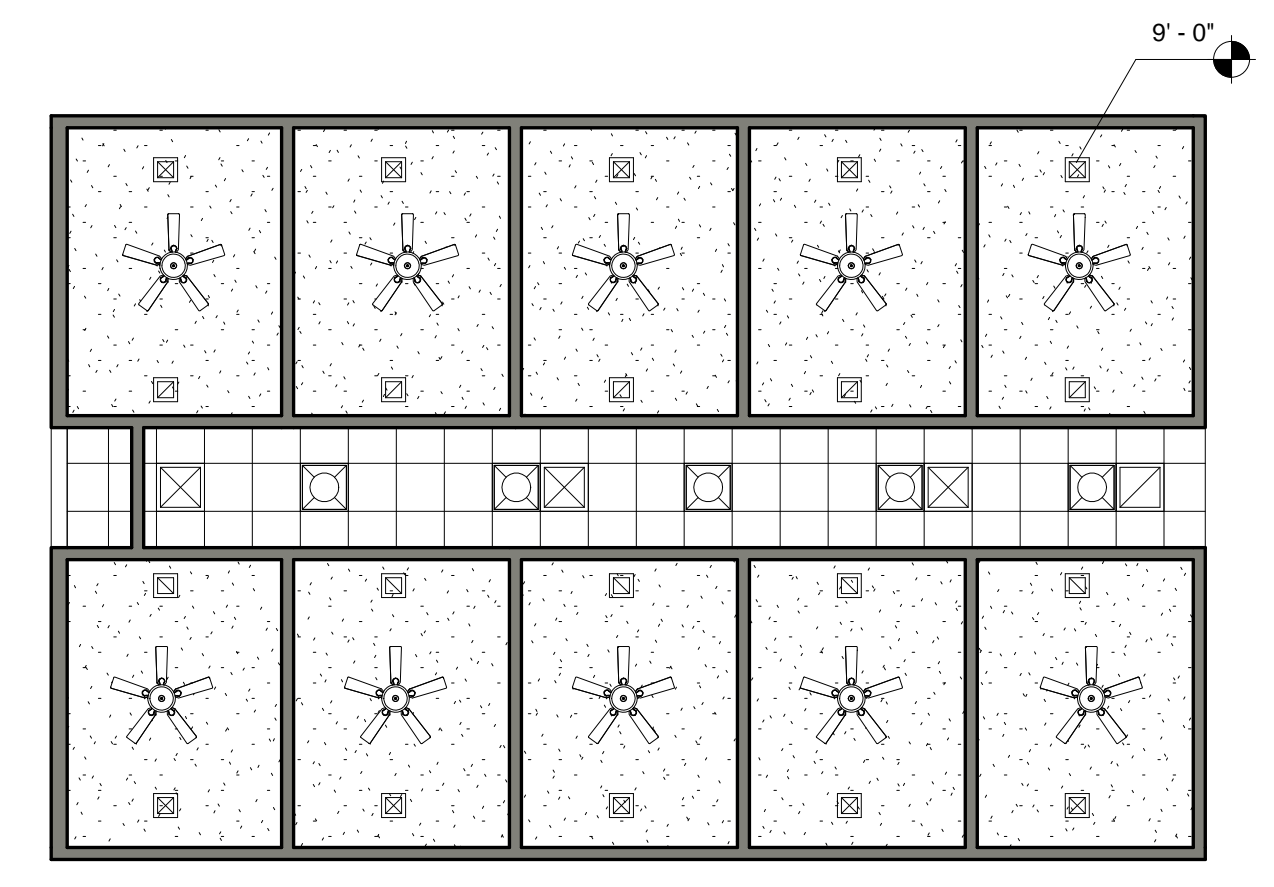
	SEALED CONCRETE
	CARPET
	CERAMIC TILE
	RUBBER SHEET
	FLOOR DRAIN
	HOSE BIB

CEILING LEGEND

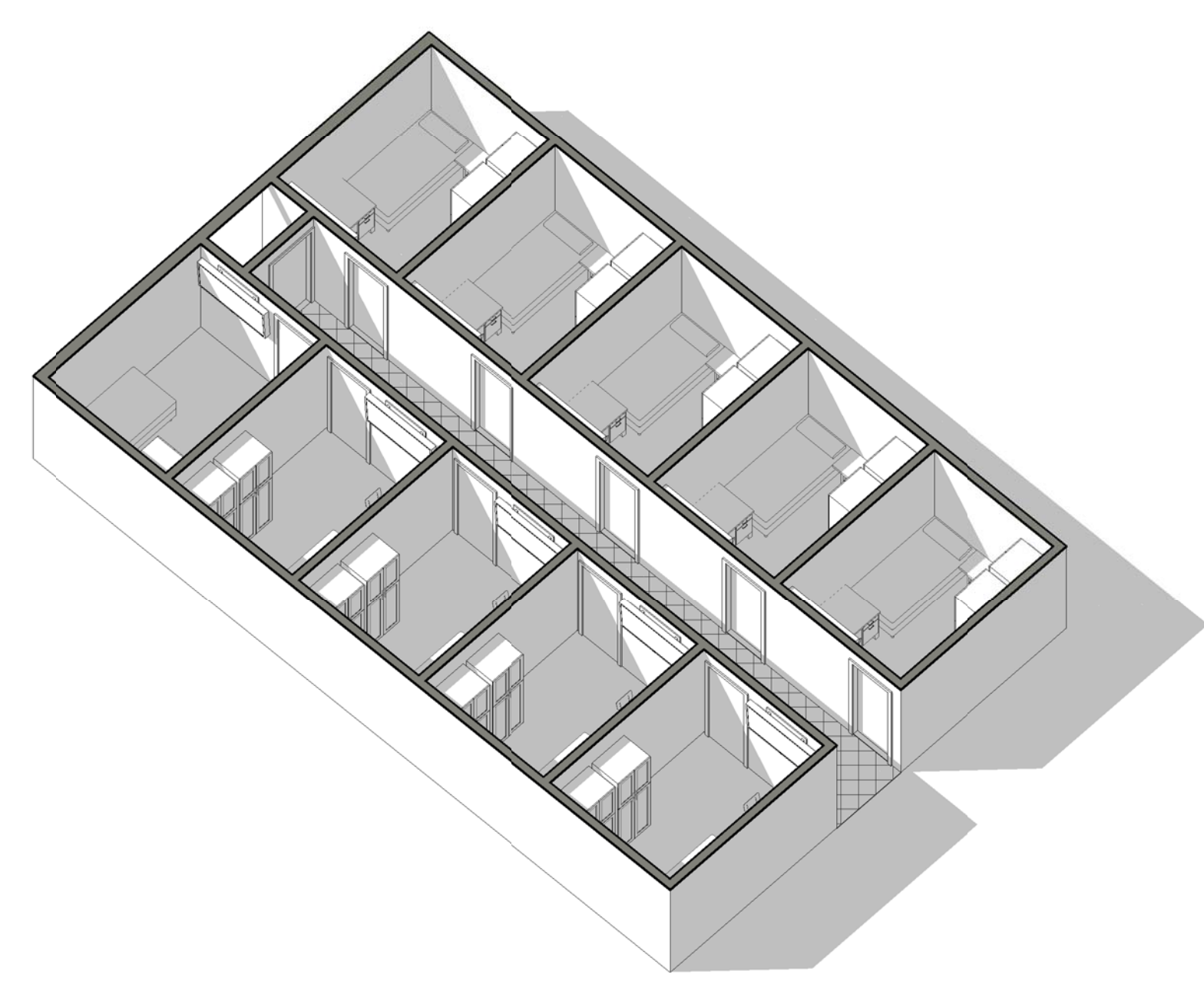
	2 X 2 ACOUSTICAL TILE		SPOT ELEVATION MARKER
	GYPSUM BOARD		RECESSED CAN LIGHT
	2'X4' LIGHT		CEILING FAN
	2'X2' LIGHT		SMALL PENDANT LIGHT
	2'X2' SUPPLY DIFFUSER		LOW BAY LIGHTING
	PENDANT LIGHT		OPEN TO STRUCTURE



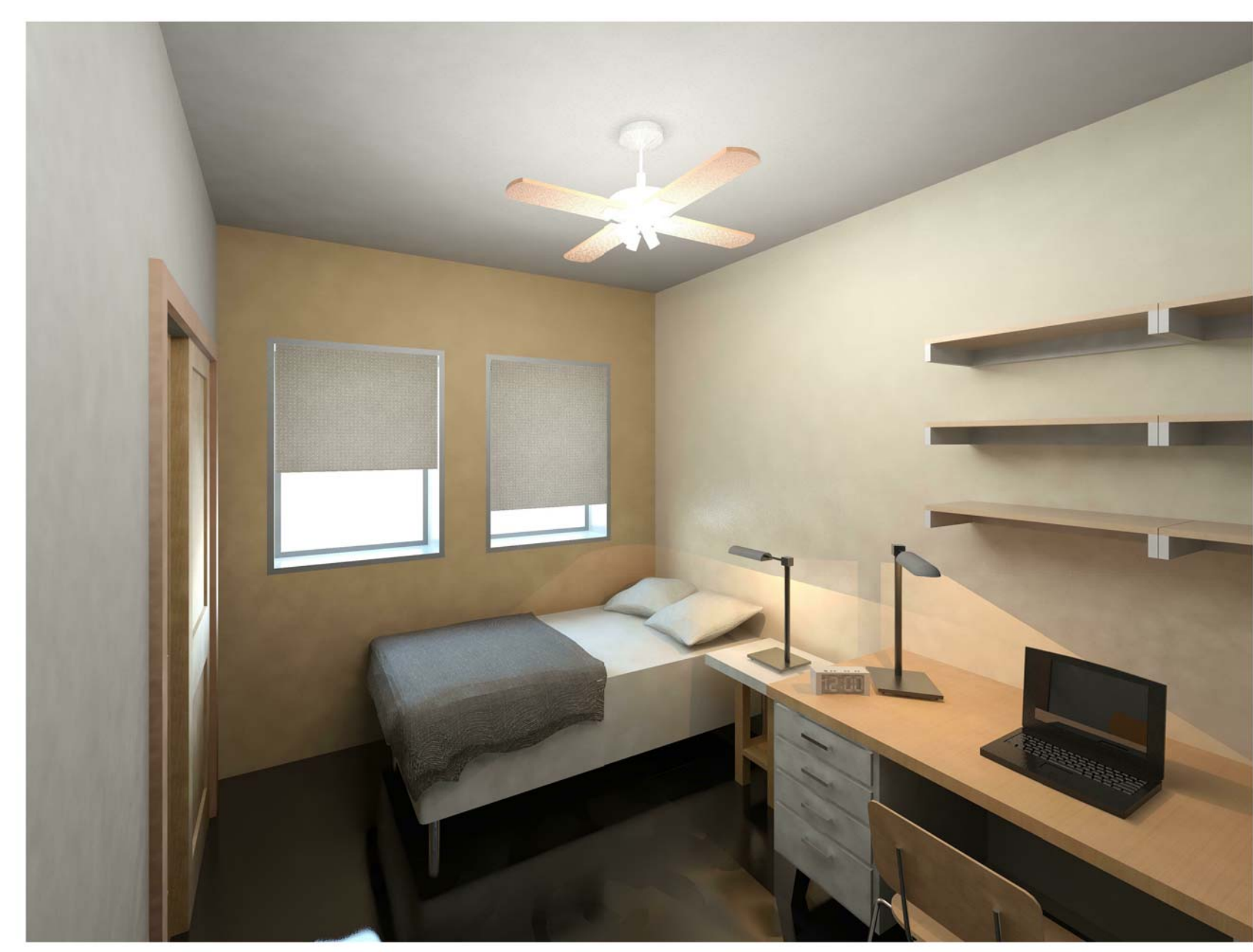
① DORM ROOM - FLOOR PLAN
1/8" = 1'-0"



② DORM ROOM - REFLECTED CEILING PLAN
1/8" = 1'-0"



③ DORM ROOM - AXON



DORM ROOM

1/2/2014 4:37:35 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

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FITNESS ROOM NOTES

1. FITNESS ROOM EQUIPMENT TO BE DETERMINED BY USER AND/OR FITNESS REQUIREMENTS.

RECREATION ROOM NOTES

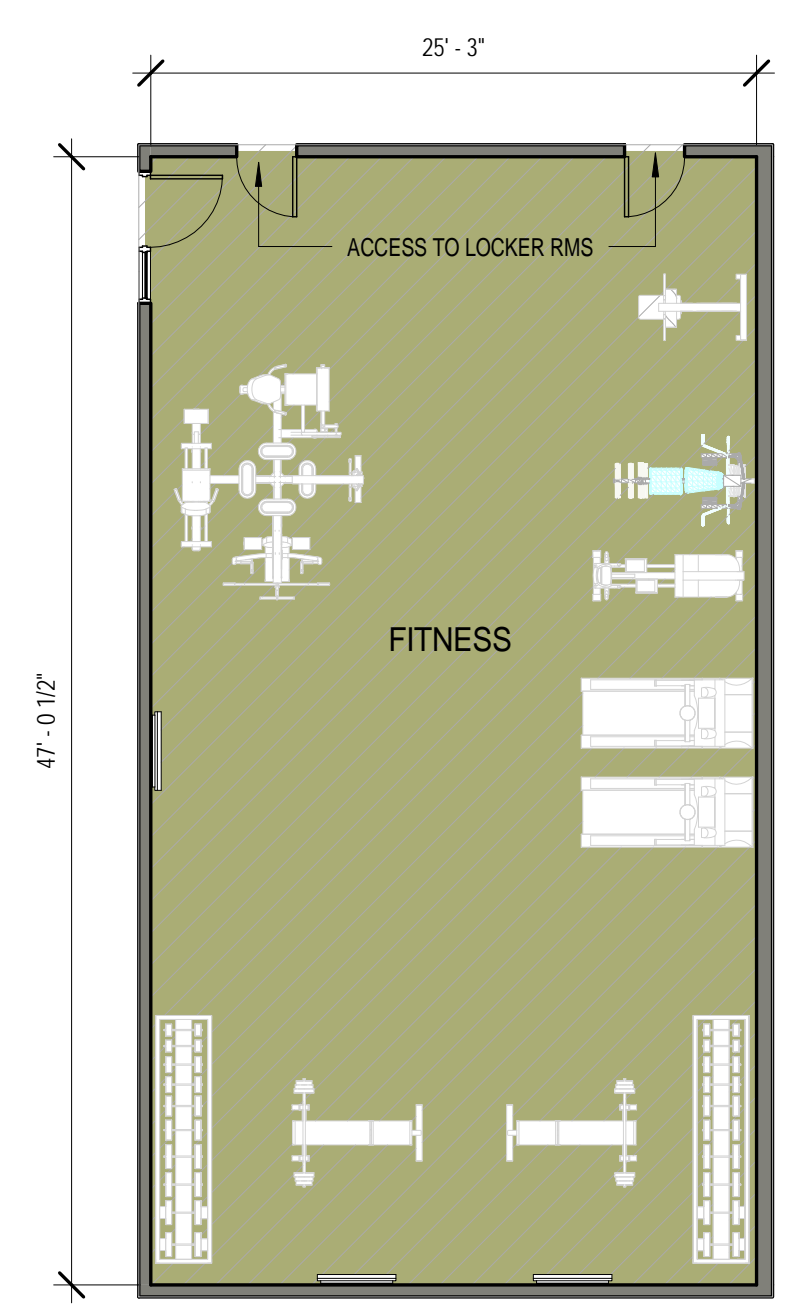
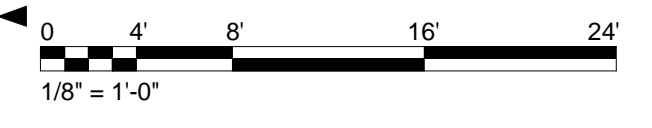
1. POOL TABLES AND OTHER GAMING TABLES ARE OPTIONAL IN THIS SPACE. TO BE DETERMINED ON A CASE-BY-CASE BASIS.

FLOOR FINISH LEGEND

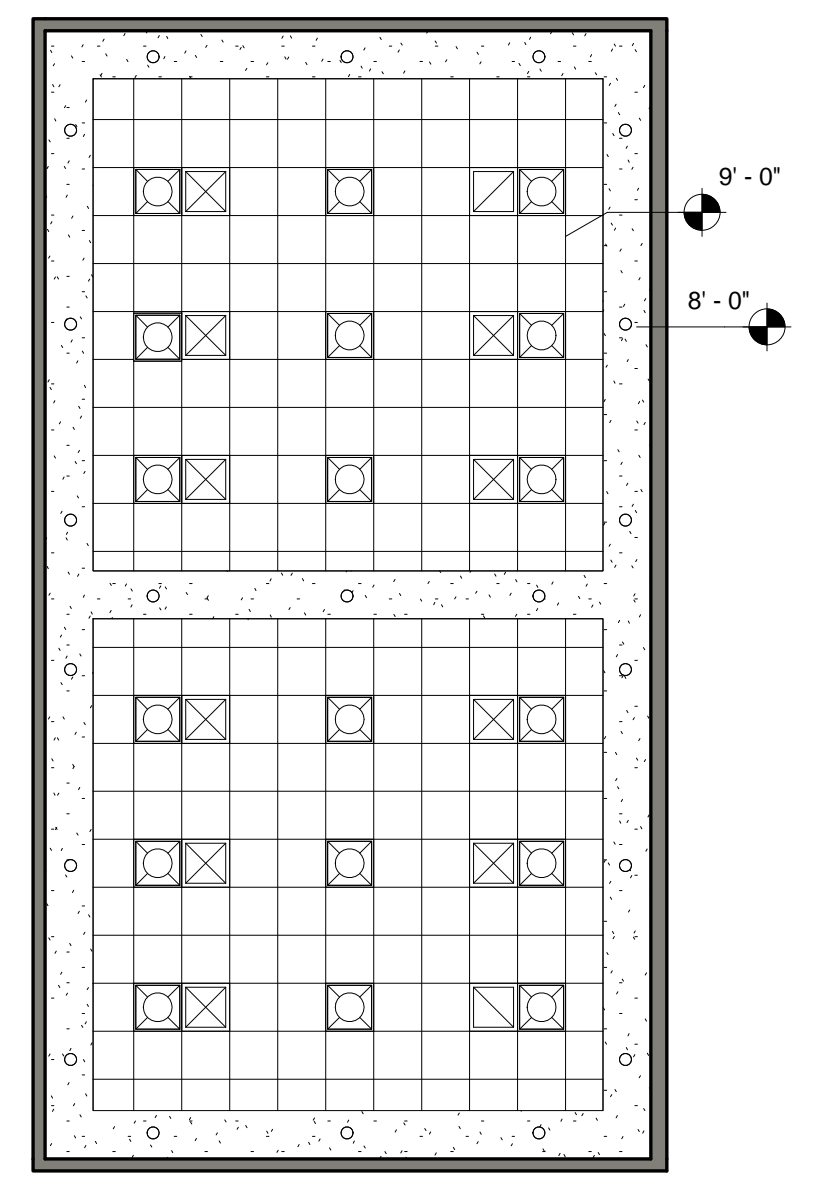
- SEALED CONCRETE
- CARPET
- CERAMIC TILE
- RUBBER SHEET
- FLOOR DRAIN
- HOSE BIB

CEILING LEGEND

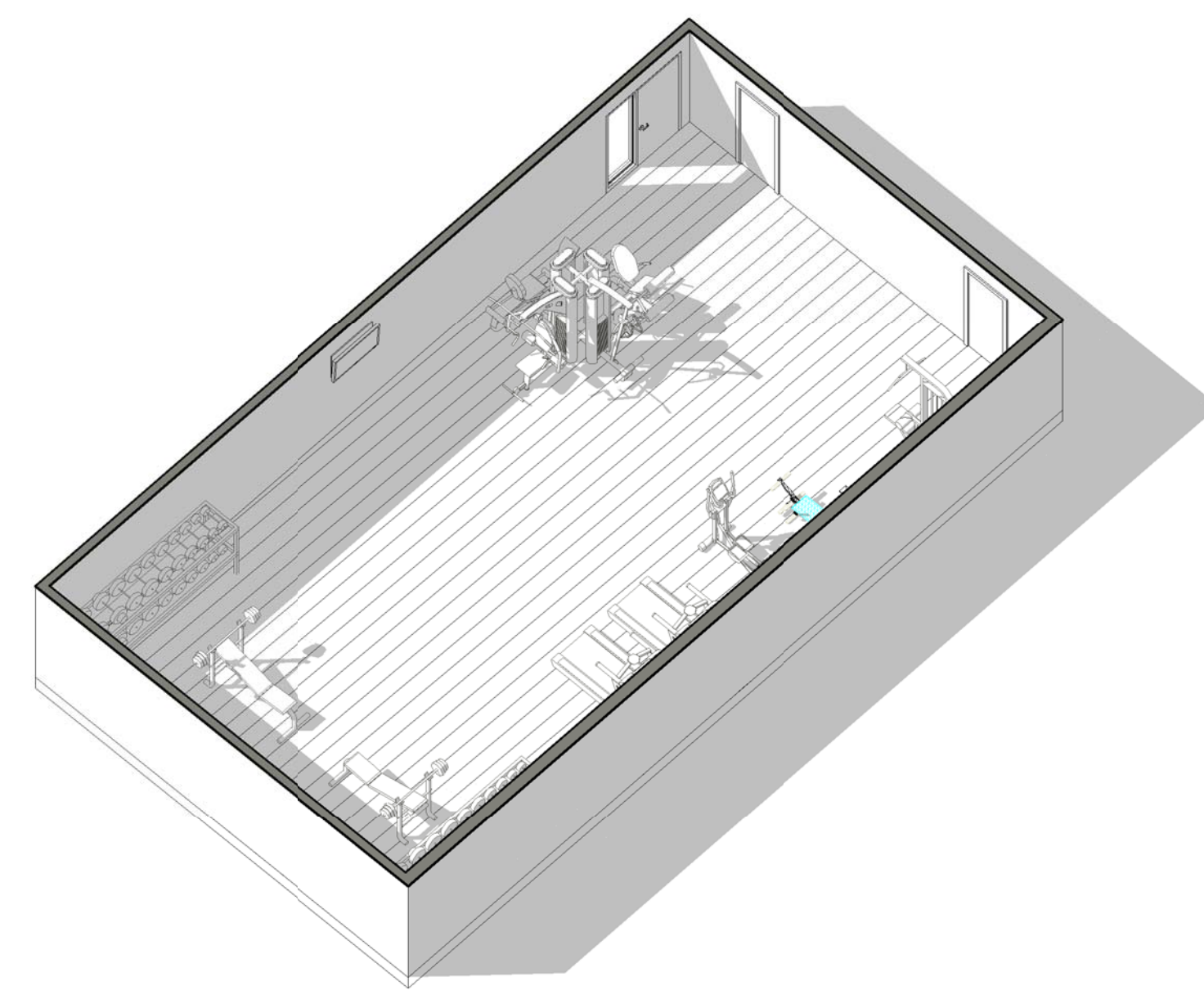
- 2 X 2 ACOUSTICAL TILE
- GYPSUM BOARD
- 2X4' LIGHT
- 2X2' LIGHT
- 2X2' SUPPLY DIFFUSER
- PENDANT LIGHT
- SPOT ELEVATION MARKER
- RECESSED CAN LIGHT
- CEILING FAN
- SMALL PENDANT LIGHT
- LOW BAY LIGHTING
- OPEN TO STRUCTURE



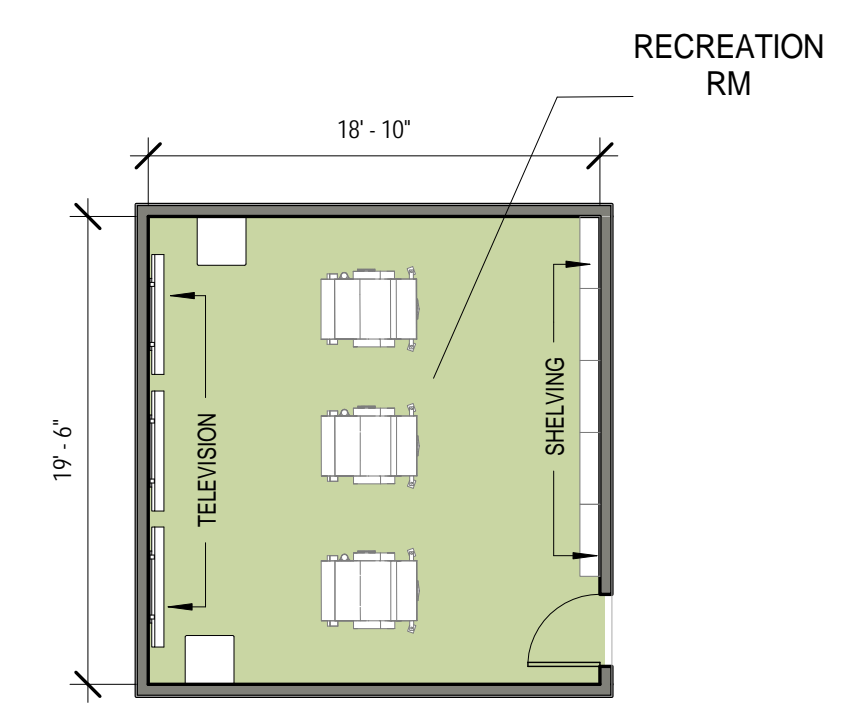
① FITNESS ROOM - FLOOR PLAN
1/8" = 1'-0"



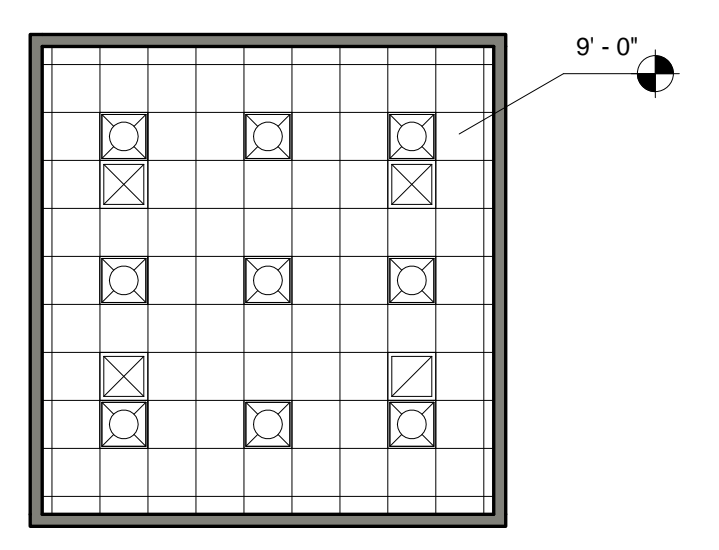
② FITNESS - REFLECTED CEILING PLAN
1/8" = 1'-0"



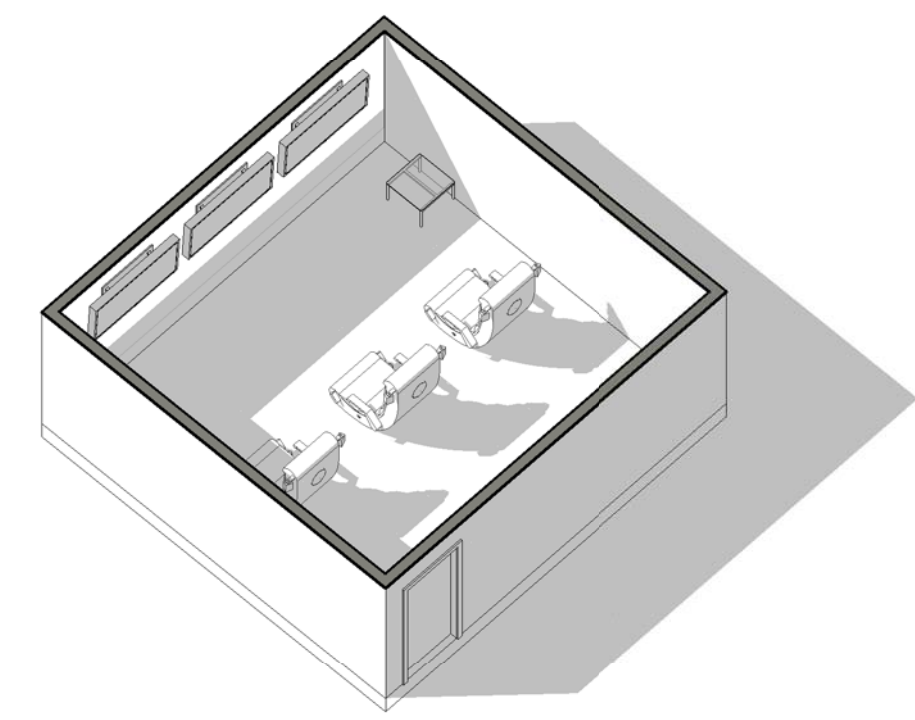
③ FITNESS - AXON



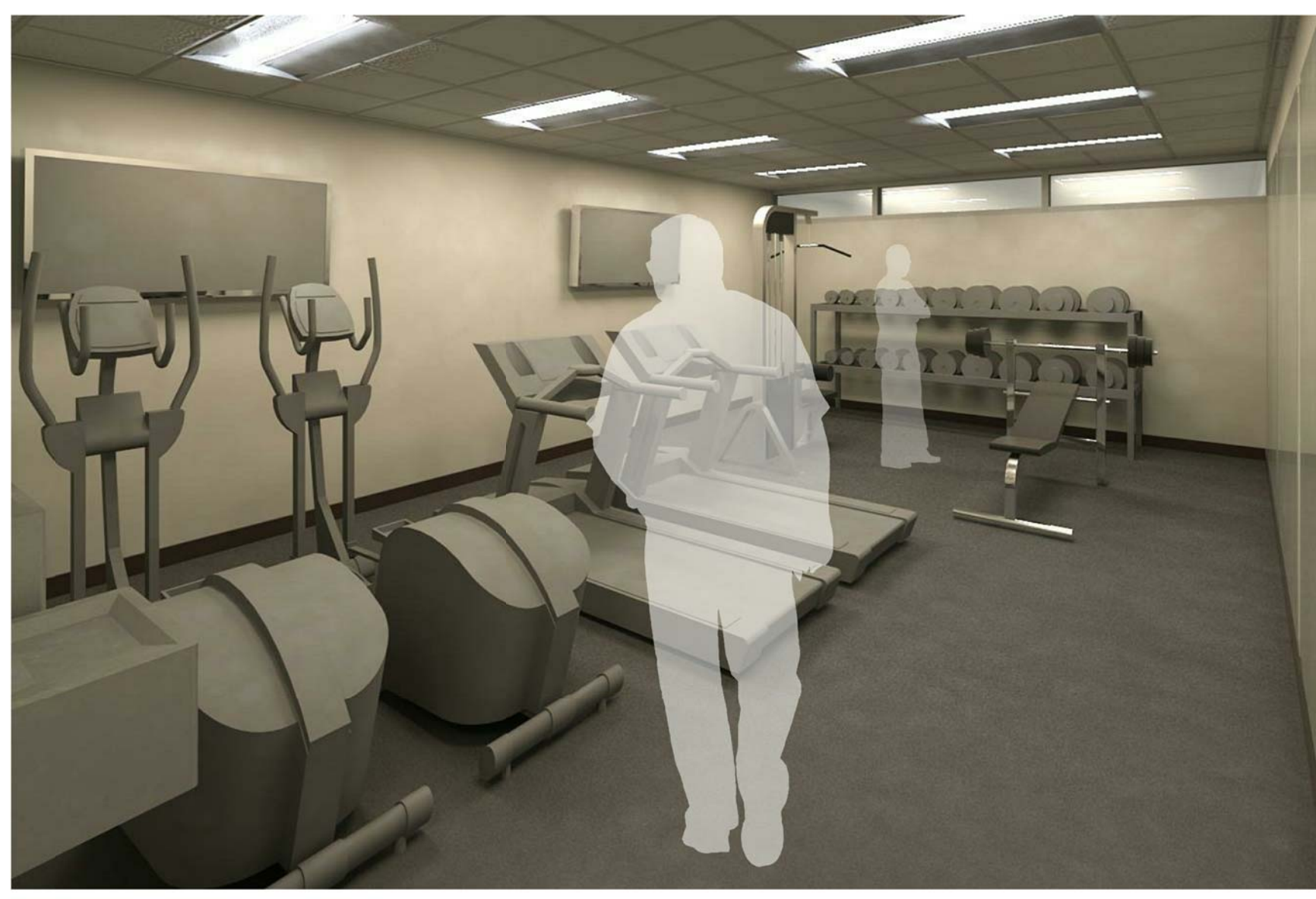
④ RECREATION ROOM - FLOOR PLAN
1/8" = 1'-0"



⑤ RECREATION ROOM - REFLECTED CEILING PLAN
1/8" = 1'-0"



⑥ RECREATION ROOM - AXON



FITNESS ROOM



RECREATION ROOM

1/2/2014 12:27:25 PM
SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

Jacobs Project No.: FDYD3106
Drawing Title: **MODULE - RESIDENTIAL - FITNESS & RECREATION**
Date: DECEMBER 2013
Designed By: LEG
Drawn By: KLW
Checked By: JW
Drawing No.: **MO110**

GENERAL NOTES

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HOTELING NOTES

1. PROVIDE APPROXIMATELY ONE STATION FOR EVERY THREE RESPONDERS. EACH STATION SHOULD INCLUDE A DESK, COMPUTER, AND PROPER ELECTRICAL CONNECTIONS. REFERENCE TABLE 4-20.0 IN THE UFC FOR FINISHES, FF&E, AND COMMUNICATION REQUIREMENTS.

LAUNDRY NOTES

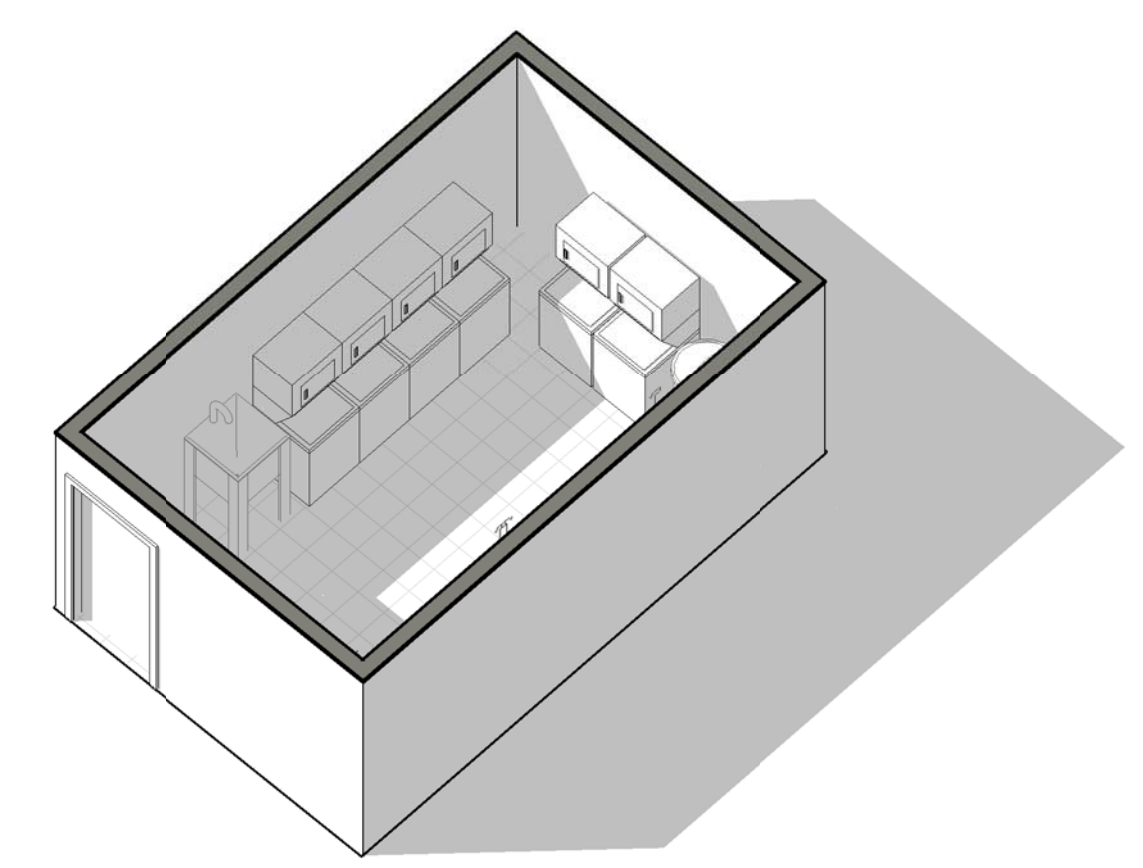
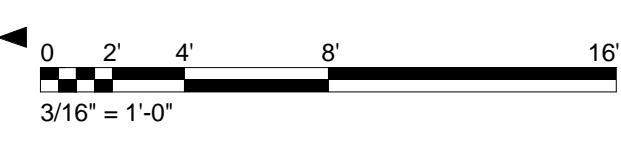
1. PROVIDE LARGE, HEAVY-DUTY, RESIDENTIAL WASHERS AND DRYERS. REFERENCE TABLE 4-27.0 IN THE UFC FOR FIXTURE REQUIREMENTS.
2. LAUNDRY ROOM FOR PERSONAL CLOTHING OF THE FIREFIGHTERS AND OCCASIONAL LAUNDRY FOR COMMON AREAS.

FLOOR FINISH LEGEND

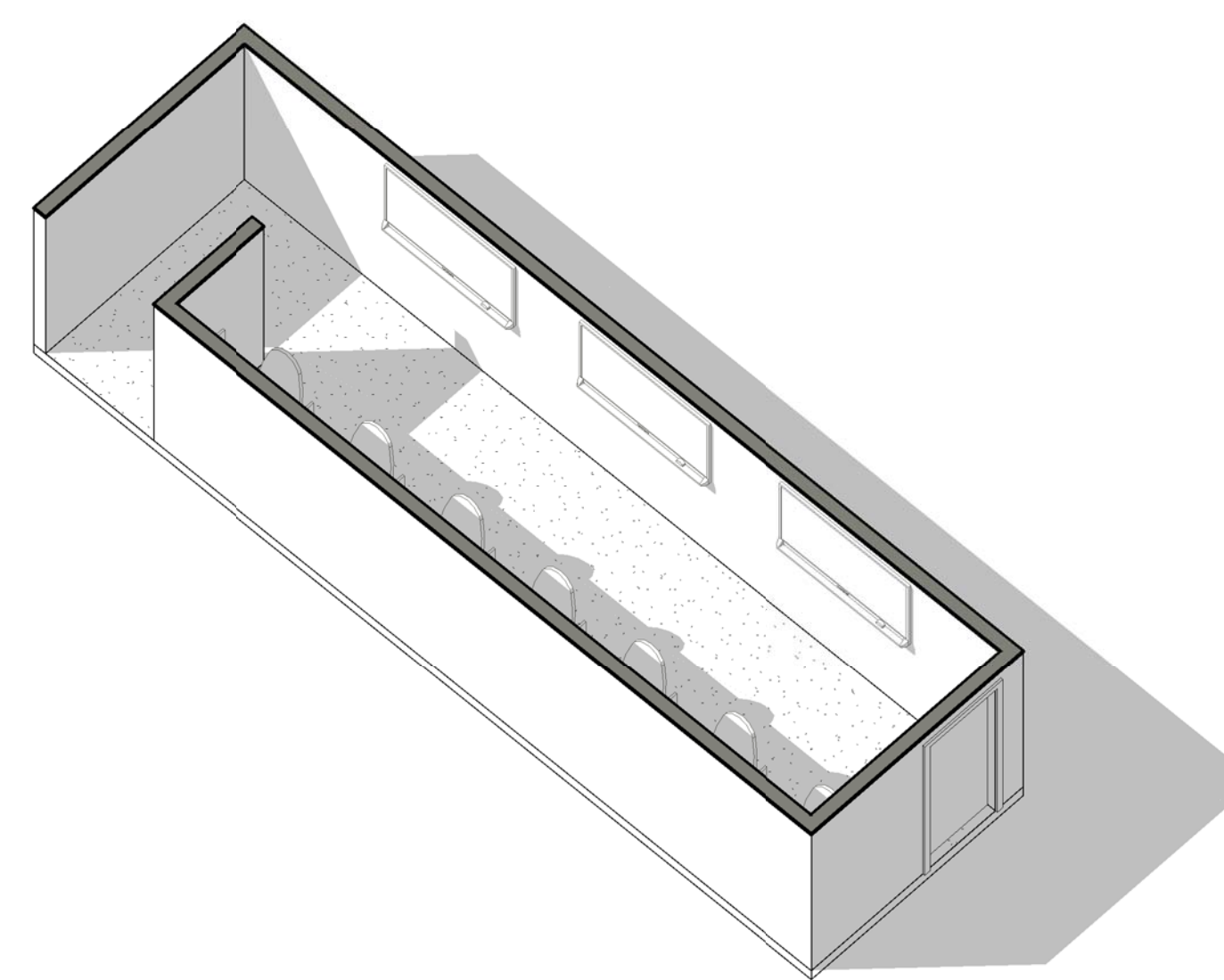
	SEALED CONCRETE
	CARPET
	CERAMIC TILE
	RUBBER SHEET
	FLOOR DRAIN
	HOSE BIB

CEILING LEGEND

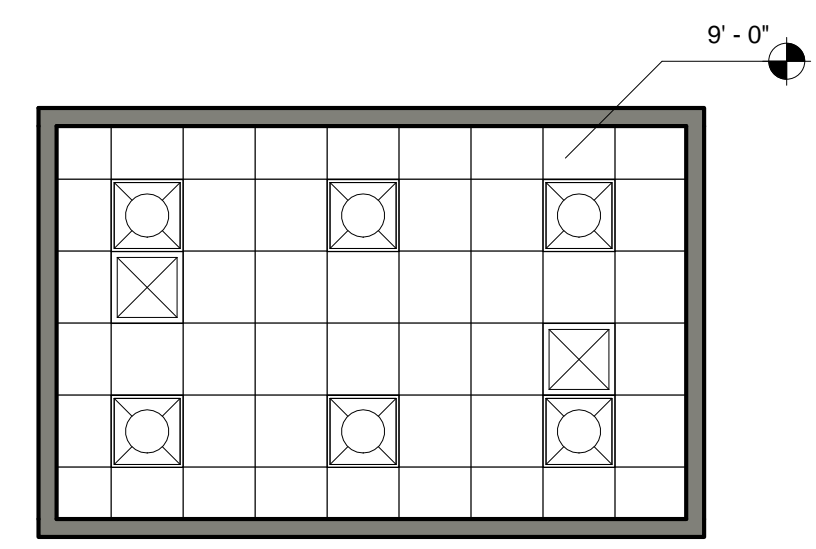
	2 X 2 ACOUSTICAL TILE		SPOT ELEVATION MARKER
	GYPSUM BOARD		RECESSED CAN LIGHT
	2'X4' LIGHT		CEILING FAN
	2'X2' LIGHT		SMALL PENDANT LIGHT
	2'X2' SUPPLY DIFFUSER		LOW BAY LIGHTING
	PENDANT LIGHT		OPEN TO STRUCTURE



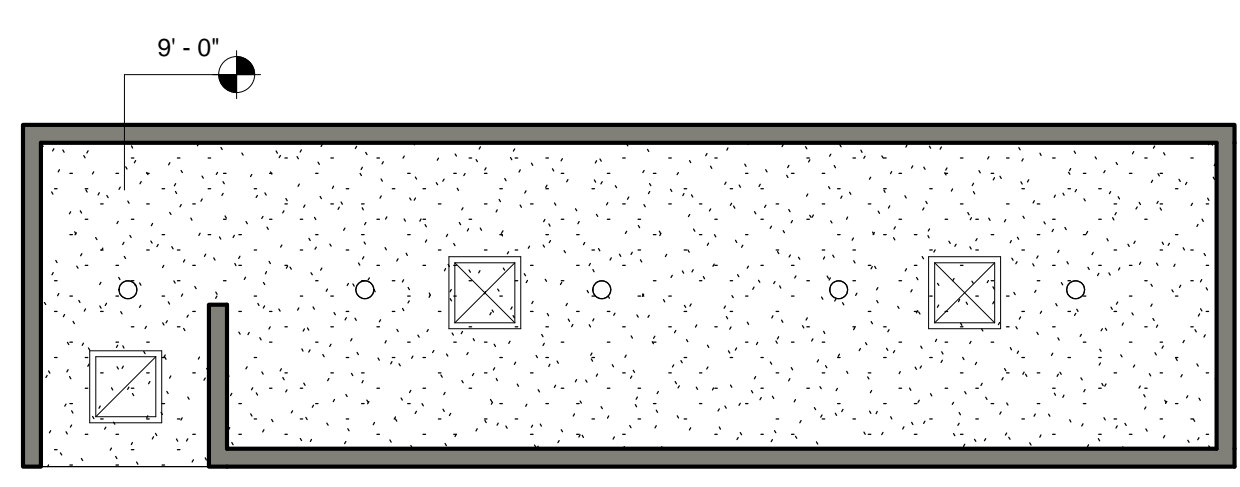
③ LAUNDRY ROOM - AXON



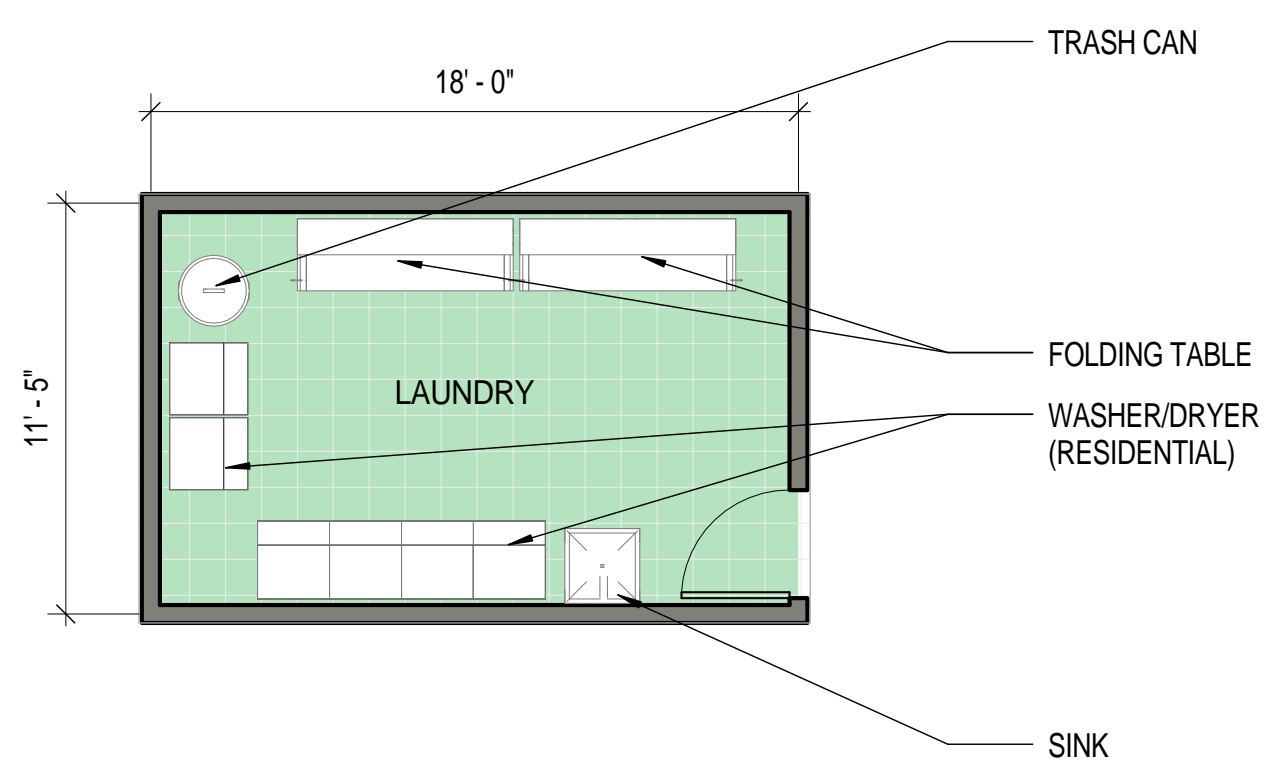
⑥ HOTELING - AXON



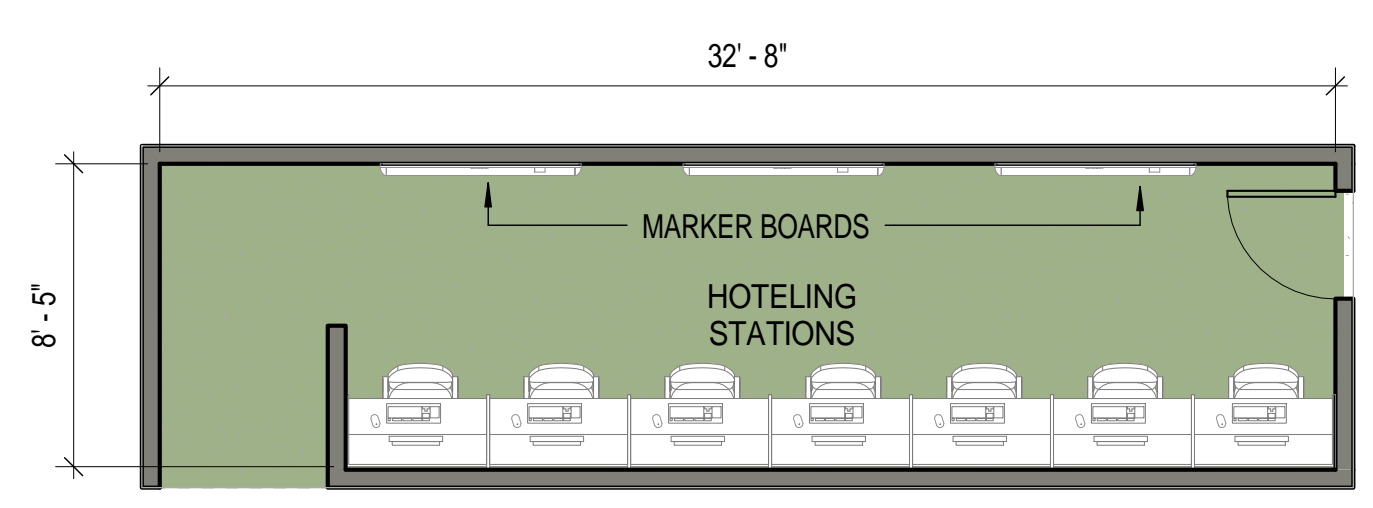
② LAUNDRY - REFLECTED CEILING PLAN
3/16" = 1'-0"



⑤ HOTELING - REFLECTED CEILING PLAN
3/16" = 1'-0"



① LAUNDRY ROOM - FLOOR PLAN
3/16" = 1'-0"



④ HOTELING STATION - FLOOR PLAN
3/16" = 1'-0"

1/2/2014 12:27:46 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

Jacobs Project No.: FDYD3106
Drawing Title: MODULE - RESIDENTIAL - HOTELING & LAUNDRY
Date: DECEMBER 2013
Designed By: LEG
Drawn By: KLV
Checked By: JW
Drawing No.: MO111

GENERAL NOTES

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ADMINISTRATIVE NOTES

1. ALL CEILING HEIGHTS ARE 9'-0" UNLESS OTHERWISE NOTED.
2. USE DEMOUNTABLE PARTITIONS WHERE POSSIBLE. MUST MEET STC REQUIREMENTS.

FLOOR FINISH LEGEND

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

CEILING LEGEND

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

**AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:
FIRE STATION
HEADQUARTERS**



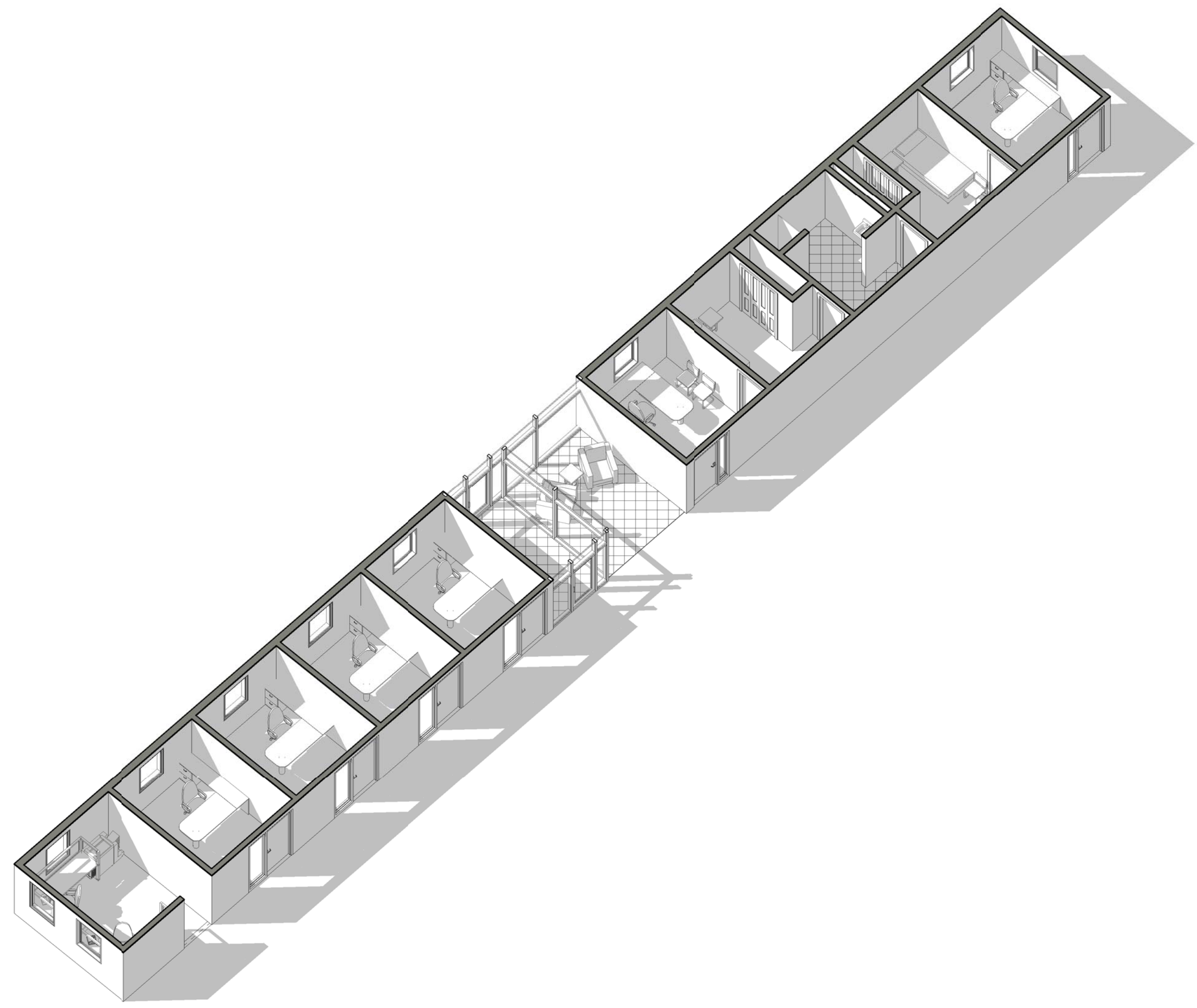
Jacobs Project No.: FDYD3106

Drawing Title:
MODULE - ADMINISTRATIVE - OFFICE LINEAR

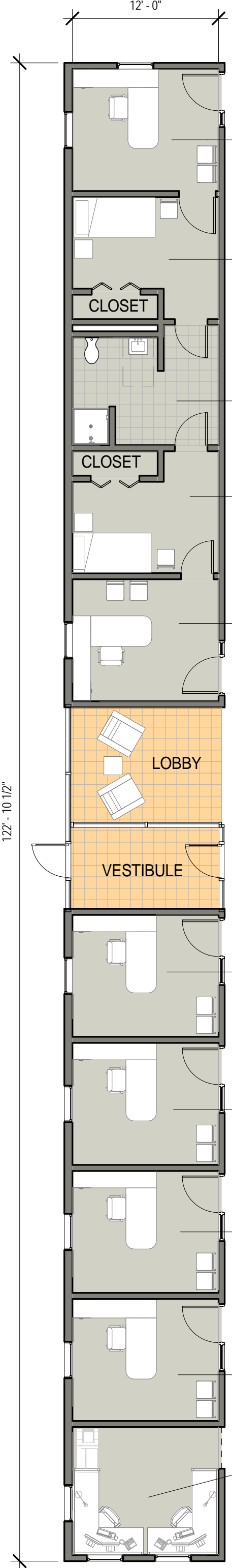
Date: DECEMBER 2013

Designed By: LEG
Drawn By: KLV
Checked By: JW

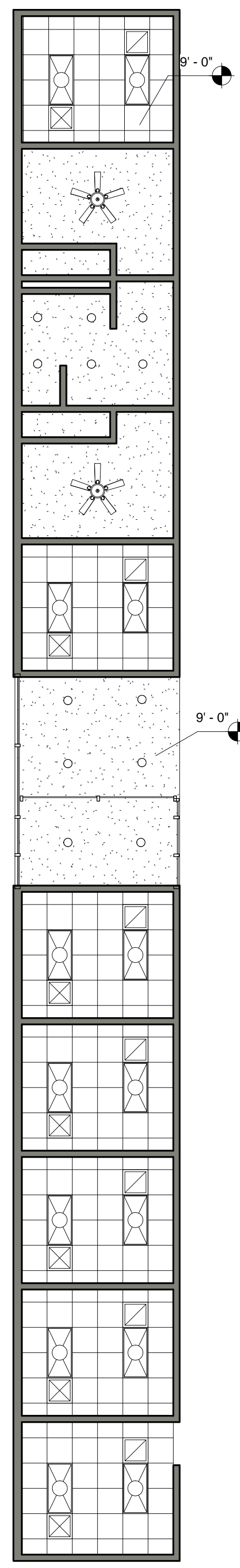
MO112



③ ADMINISTRATIVE LINEAR MODULE - AXON



① ADMINISTRATIVE LINEAR MODULE - FLOOR PLAN
1/8" = 1'-0"



② ADMINISTRATIVE LINEAR MODULE - REFLECTED CEILING PLAN
1/8" = 1'-0"

1/2/2014 12:28:06 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

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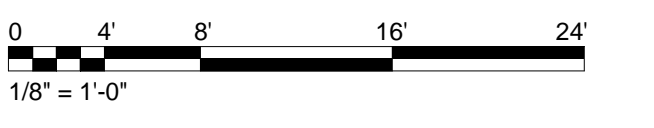
FLOOR FINISH LEGEND

- SEALED CONCRETE
- CARPET
- CERAMIC TILE
- RUBBER SHEET
- FLOOR DRAIN
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CEILING LEGEND

- 2 X 2 ACOUSTICAL TILE
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**AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:
FIRE STATION
HEADQUARTERS**

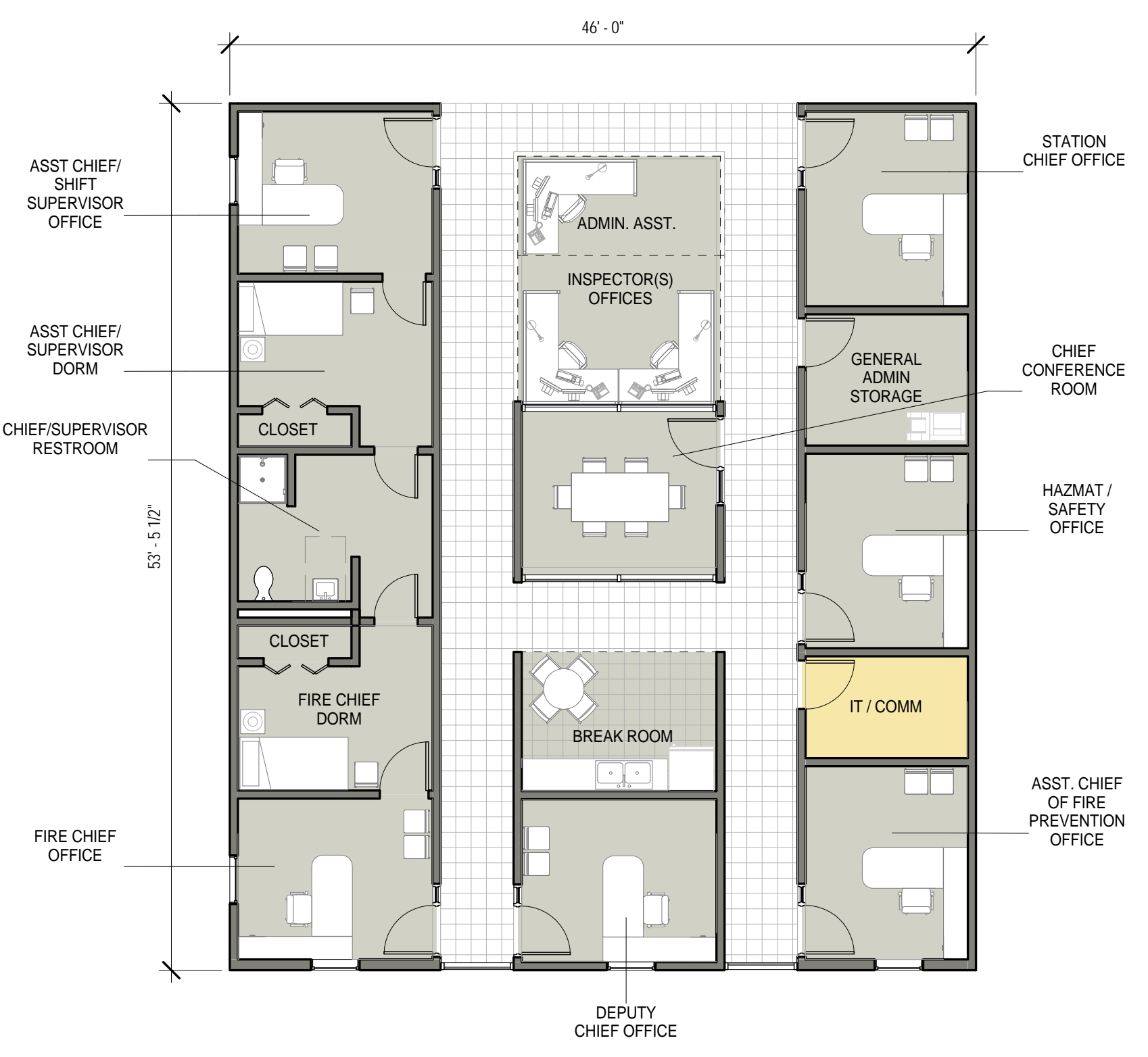


Jacobs Project No.: FDYD3106

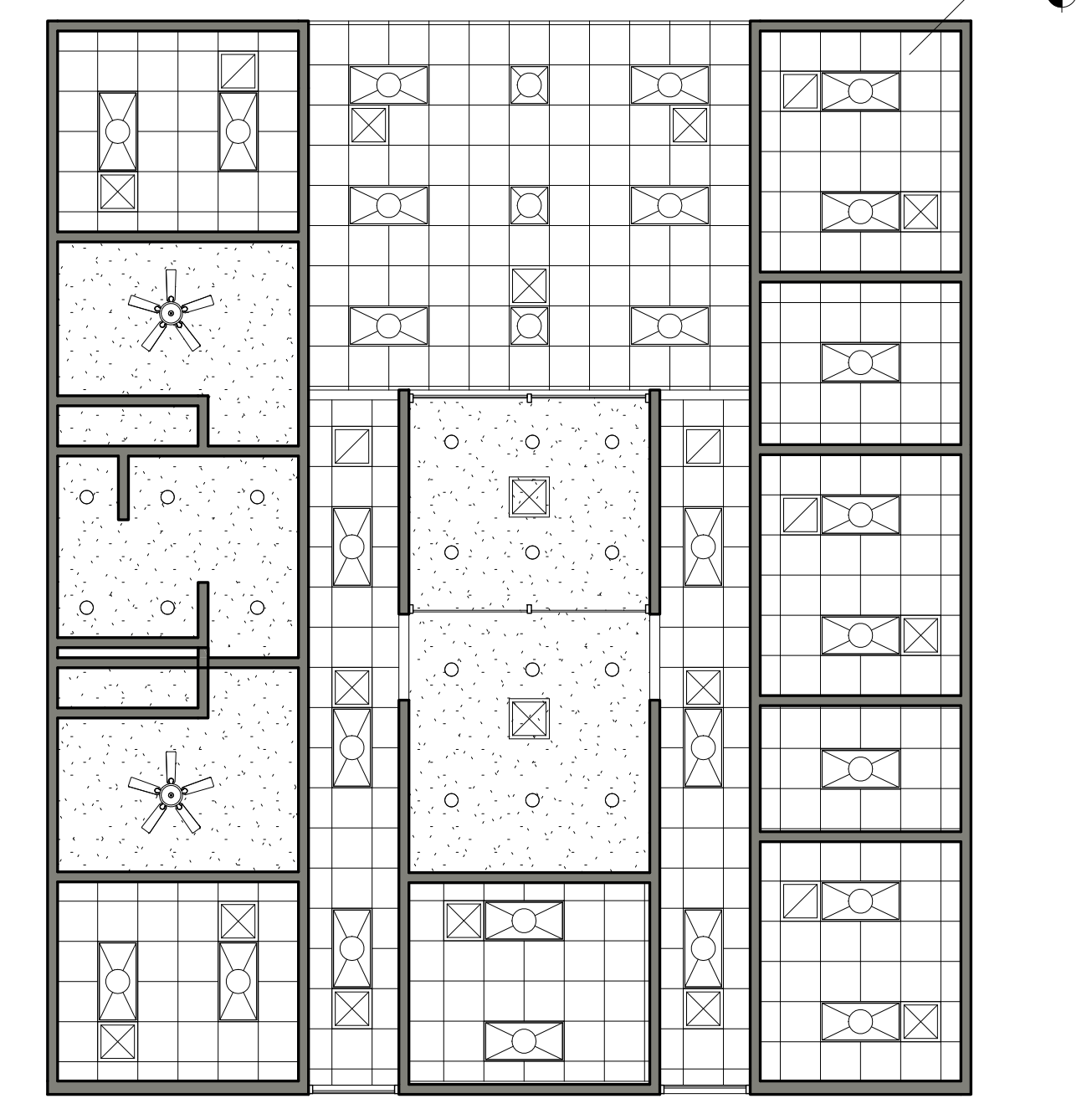
Drawing Title:
MODULE - ADMINISTRATIVE - OFFICE SUITE

Date: DECEMBER 2013

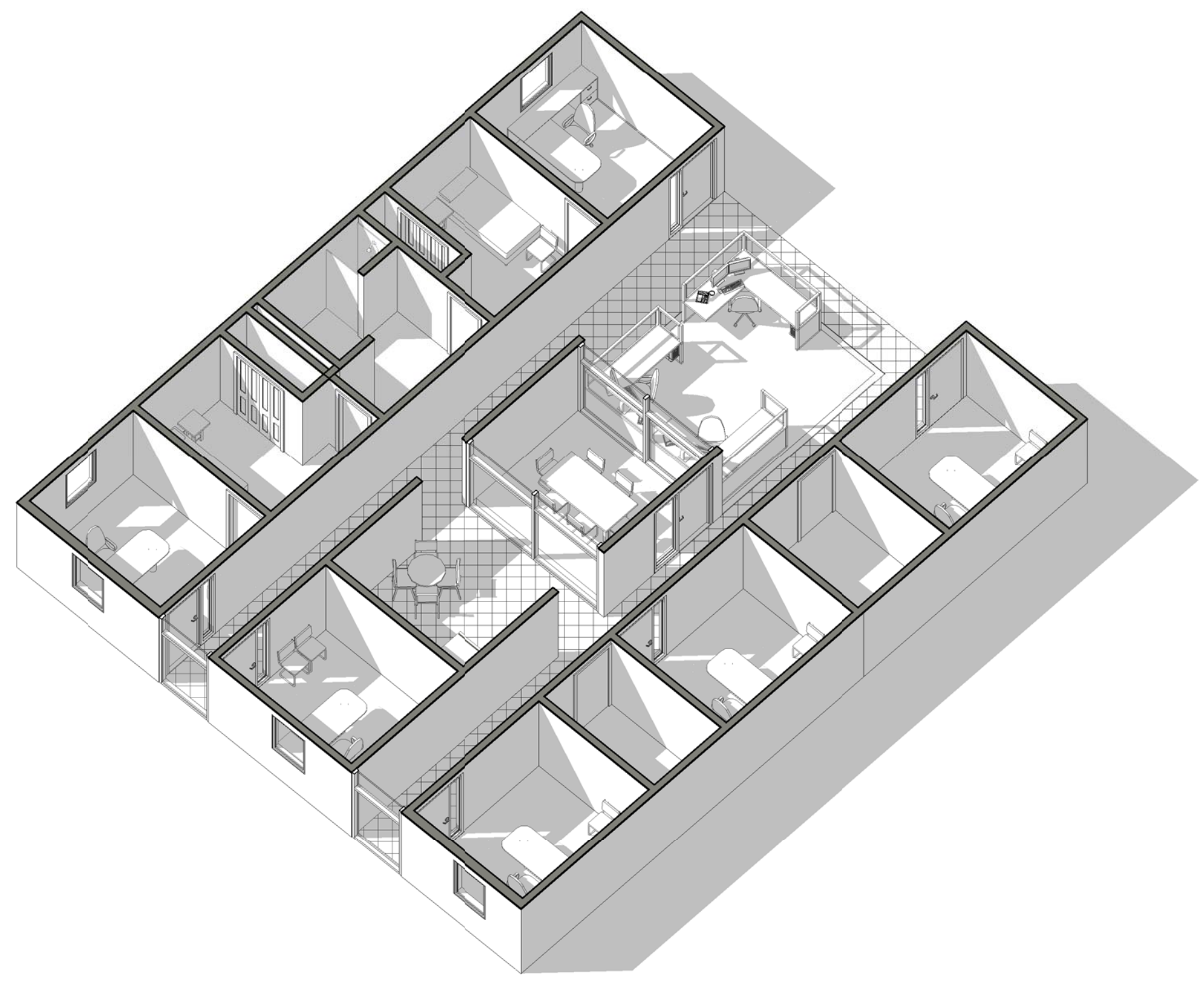
Designed By: LEG
Drawing No.: **MO113**
Drawn By: KIW
Checked By: JW



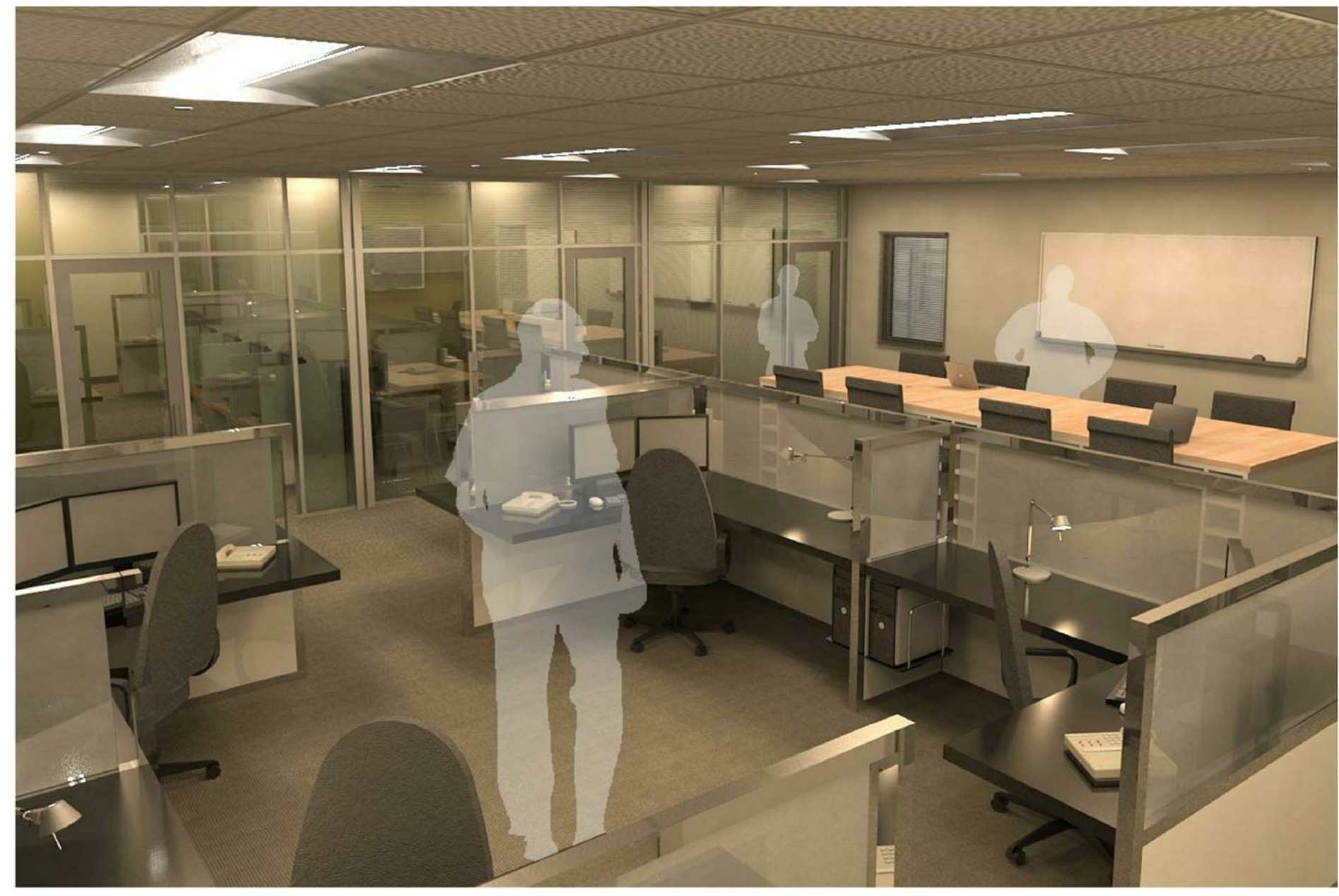
① OFFICES SUITE MODULE - FLOOR PLAN
1/8" = 1'-0"



② OFFICES SUITE MODULE - REFLECTED CEILING PLAN
1/8" = 1'-0"



③ OFFICES SUITE MODULE - AXON



OFFICE SUITE

1/2/2014 12:28:30 PM
SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

1

2

3

4

5

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TRAINING/TESTING NOTES

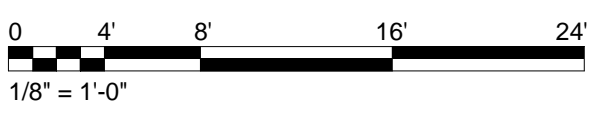
1. TRAINING ROOM IS SIZED TO ACCOMMODATE THE ENTIRE ON-DUTY POPULATION. USED FOR EDUCATION AND TRAINING OF PERSONNEL AND OCCASIONALLY PUBLIC. SHOULD HAVE DIRECT ACCESS TO A IT ROOM AND STORAGE SPACE.
2. IN THE TESTING ROOM PROVIDE STUDY/ COMPUTER CAROLS PER THE UFC.

FLOOR FINISH LEGEND

- [Symbol] SEALED CONCRETE
- [Symbol] CARPET
- [Symbol] CERAMIC TILE
- [Symbol] RUBBER SHEET
- [FD] FLOOR DRAIN
- [HB] HOSE BIB

CEILING LEGEND

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



Jacobs Project No.: FDYD3106

Drawing Title:

MODULE - ADMINISTRATIVE - TRAINING & TESTING

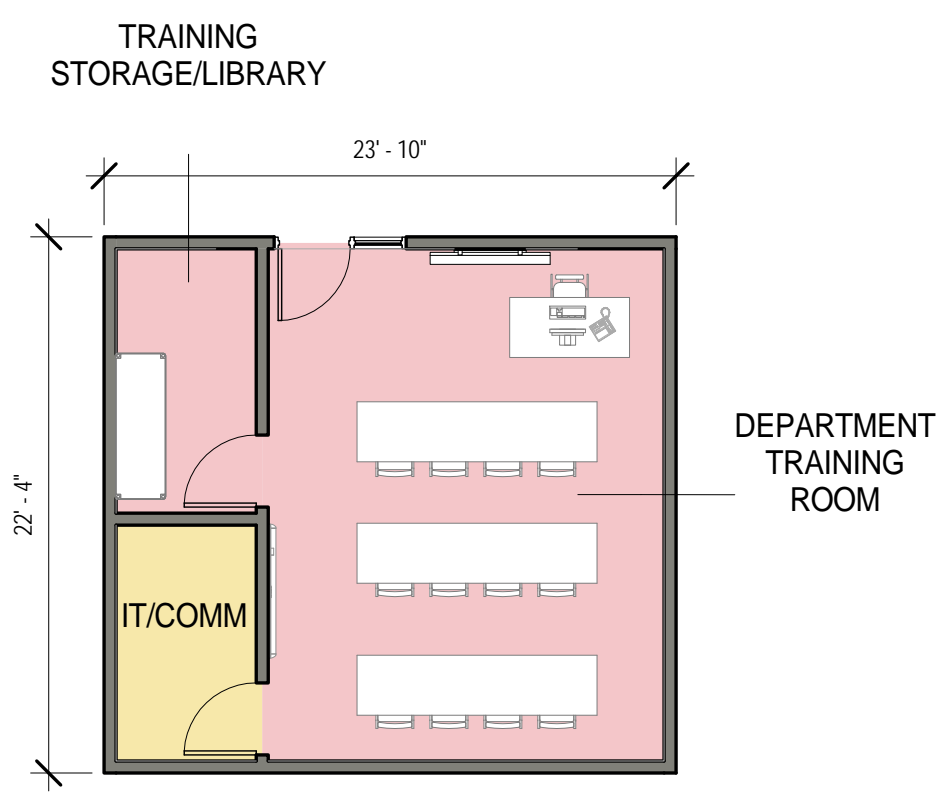
Date: DECEMBER 2013

Designed By: LEG

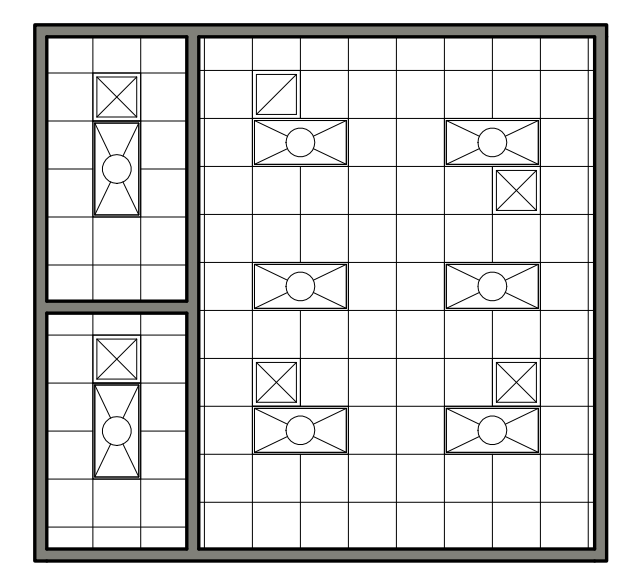
Drawn By: KLV

Checked By: JW

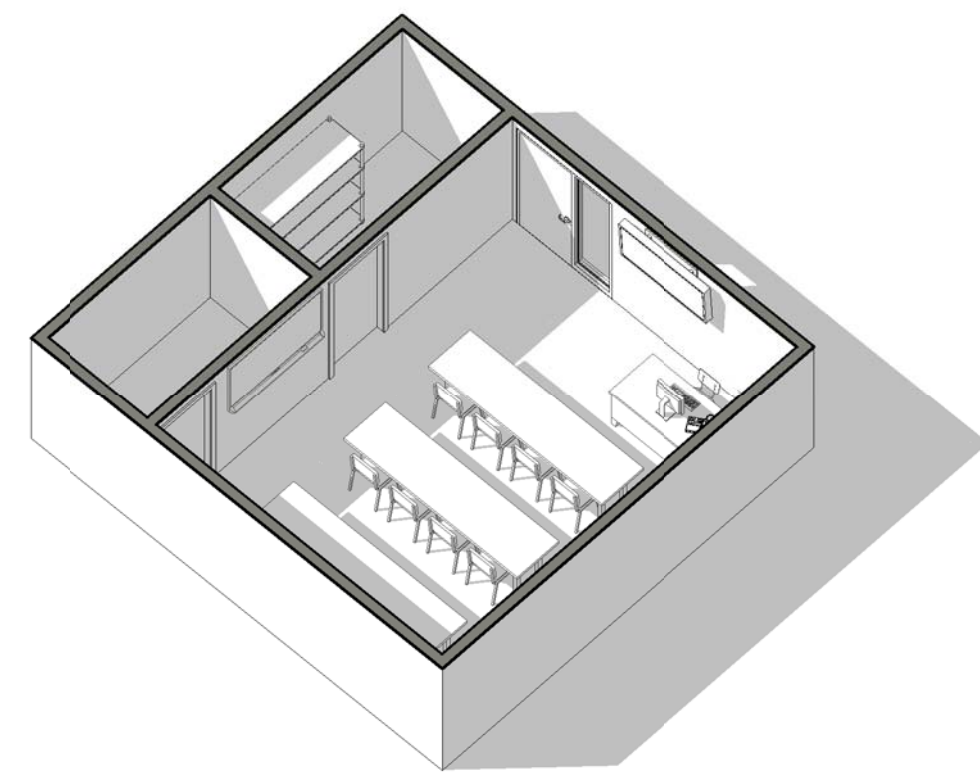
MO114



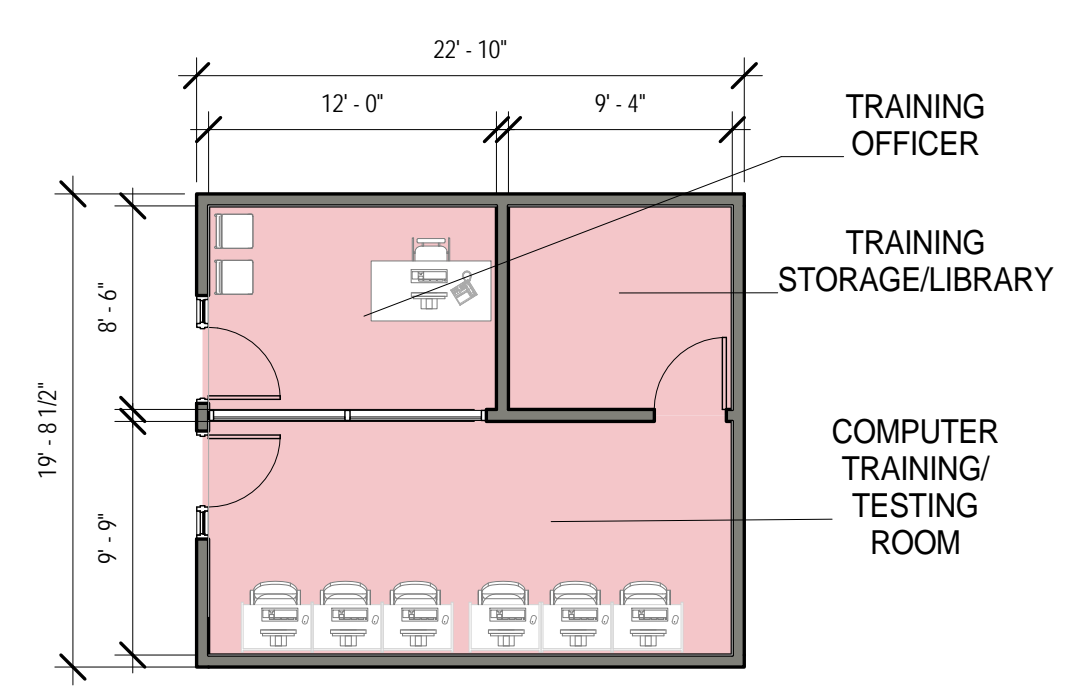
1 TRAINING MODULE - FLOOR PLAN
1/8" = 1'-0"



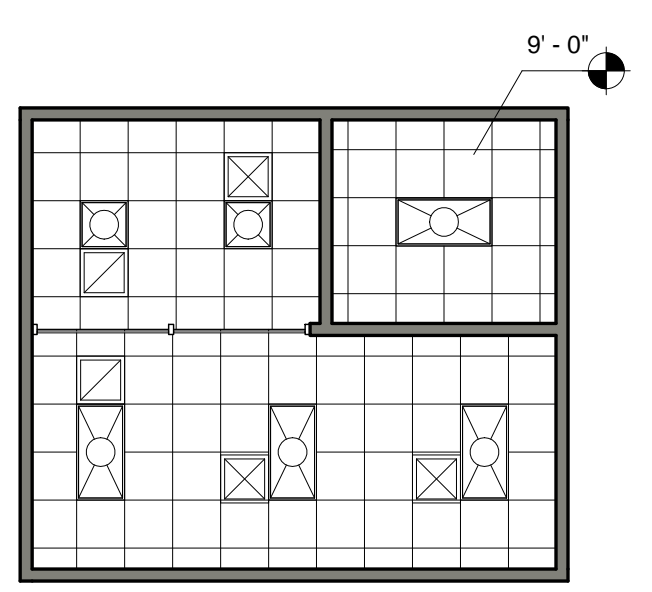
2 TRAINING MODULE - REFLECTED CEILING PLAN
1/8" = 1'-0"



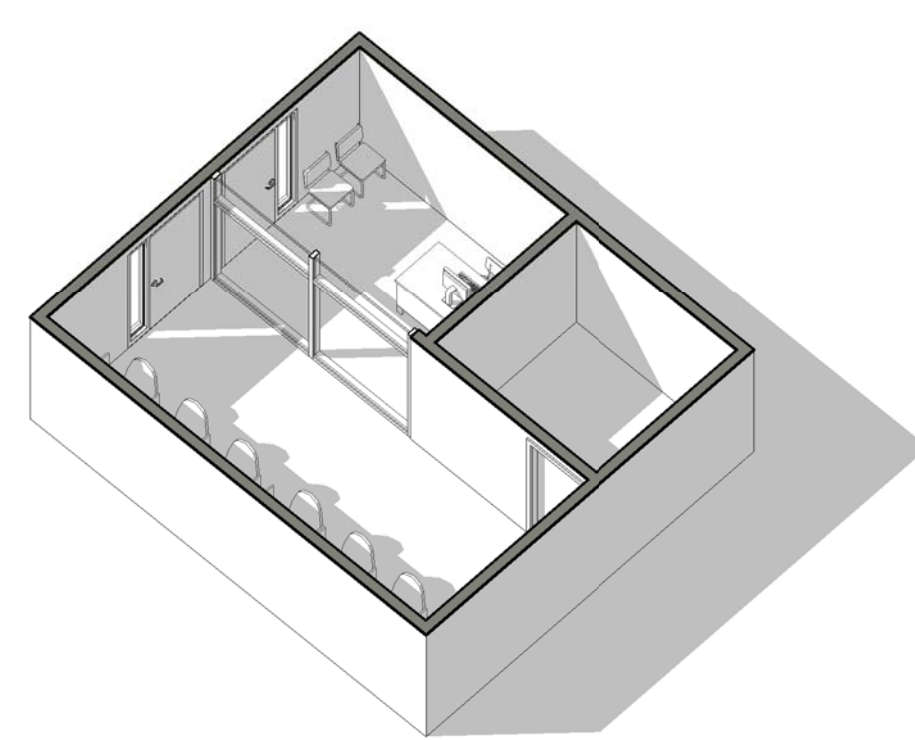
3 TRAINING MODULE - AXON



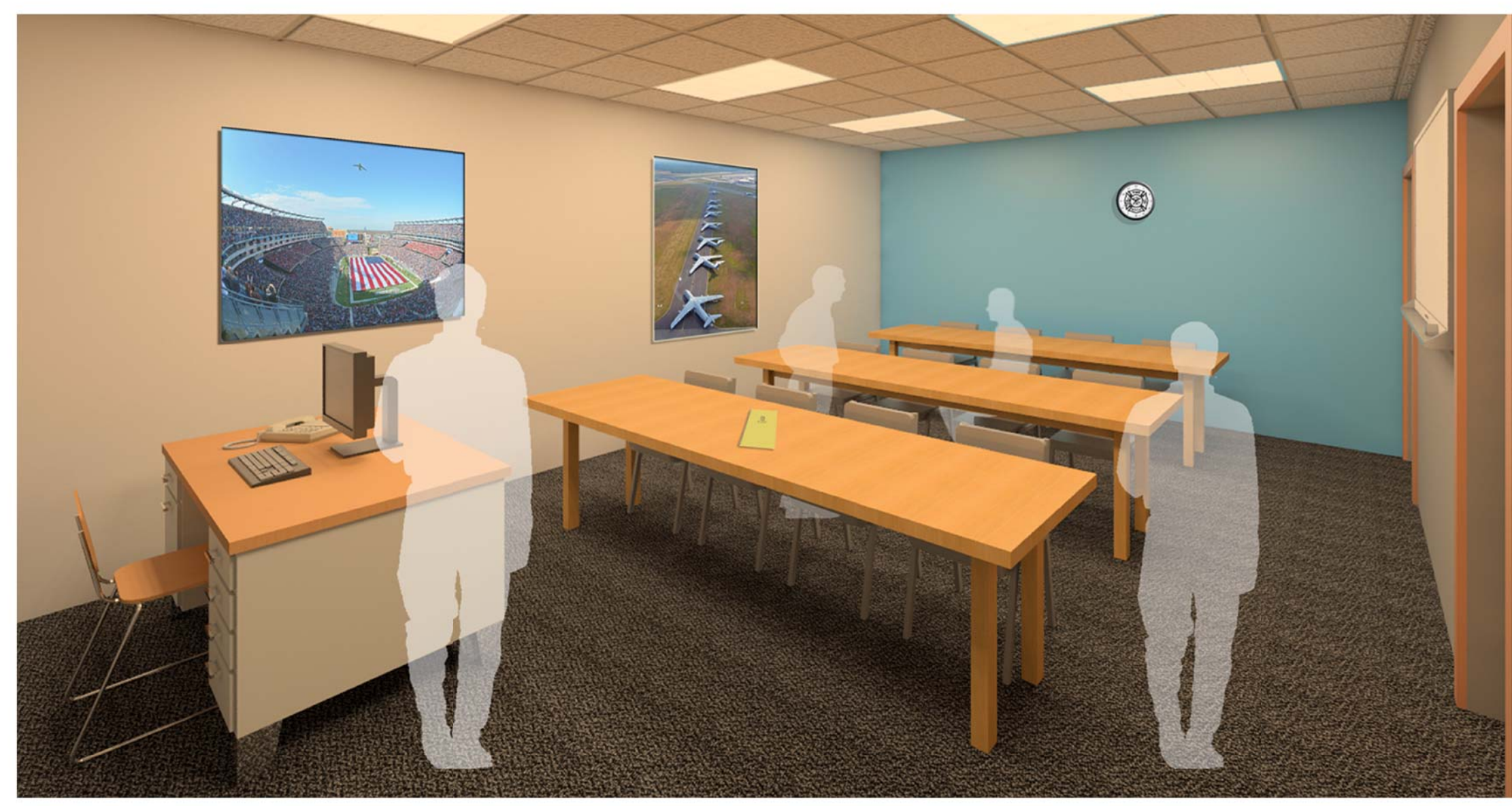
4 TESTING MODULE - FLOOR PLAN
1/8" = 1'-0"



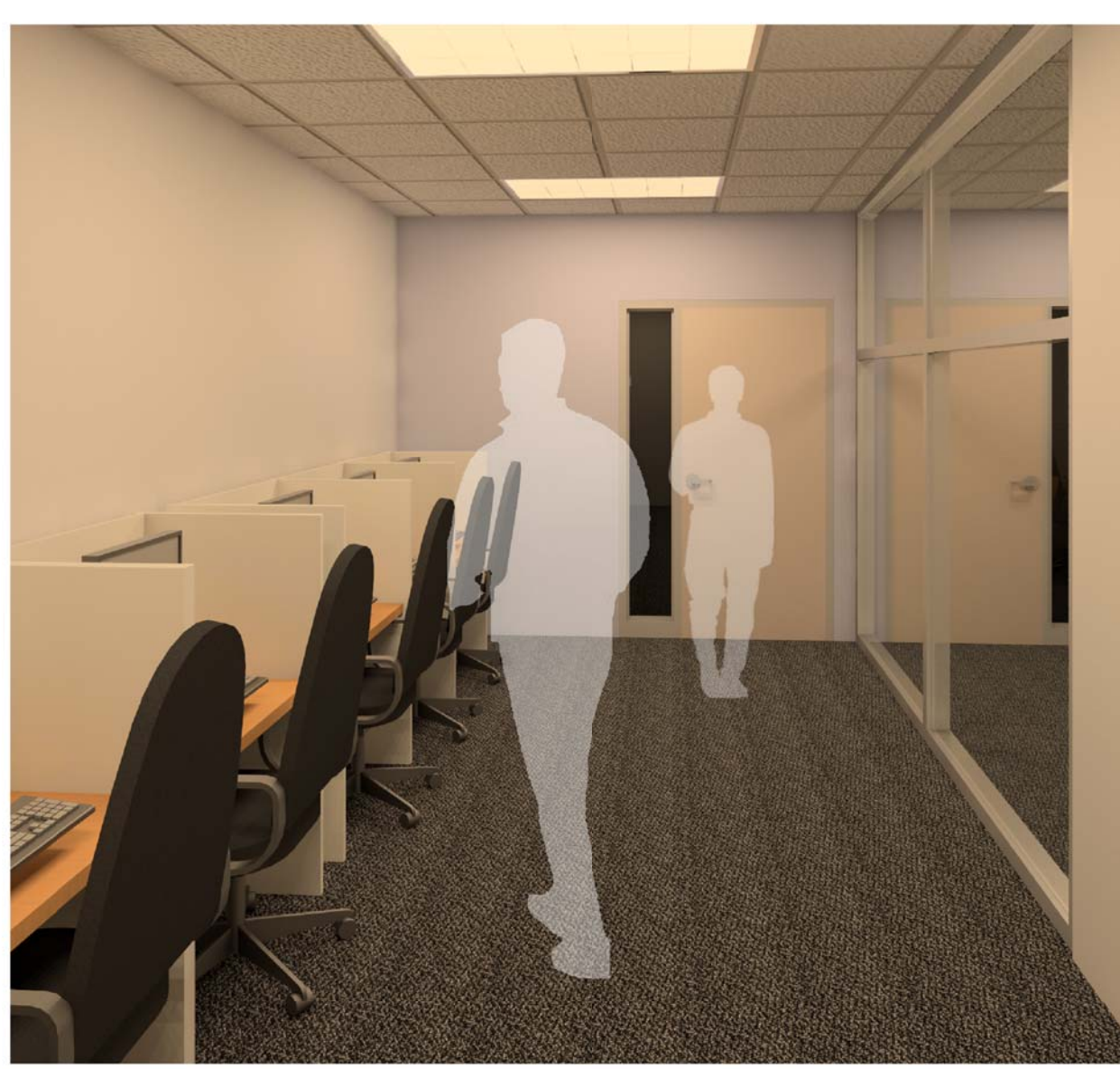
5 TESTING MODULE - REFLECTED CEILING PLAN
1/8" = 1'-0"



6 TESTING MODULE - AXON



DEPARTMENT TRAINING ROOM



COMPUTER TESTING ROOM

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SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

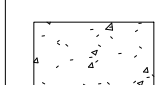
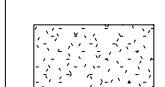


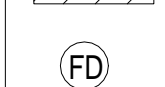

GENERAL NOTES

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.
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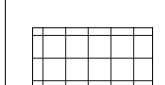
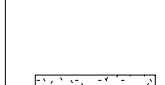
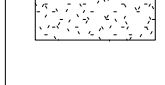
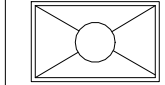
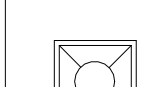
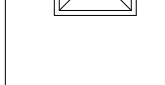
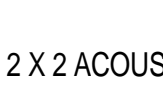


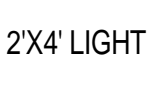
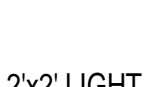

DISPATCH NOTES

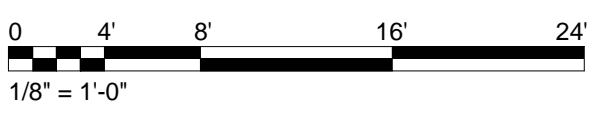
1. DISPATCH ROOM INCLUDES DEDICATED RESTROOM, KITCHENETTE, AND IT ROOM.
2. PROVIDE VISIBLE ACCESS TO EXTERIOR AND ALSO THE FLIGHTLINE WHEN APPLICABLE.

FLOOR FINISH LEGEND

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

CEILING LEGEND

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



Jacobs Project No.: FDYD3106

Drawing Title:

MODULE - ADMINISTRATIVE - LOGISTICS & DISPATCH

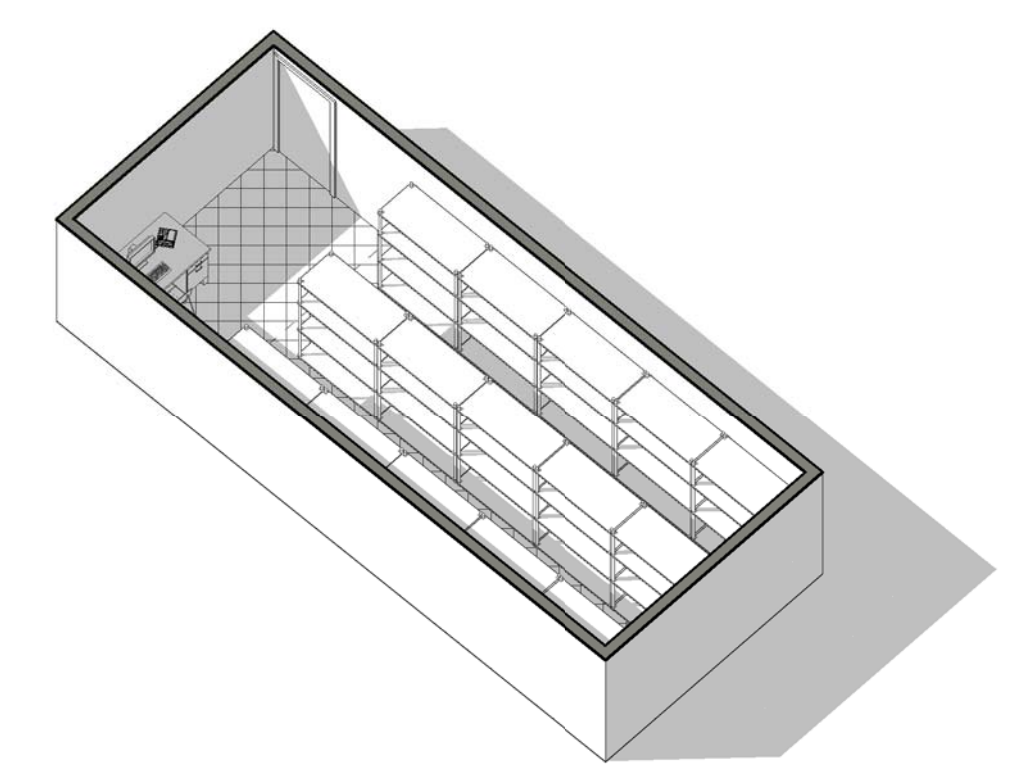
Date: DECEMBER 2013

Designed By: LEG

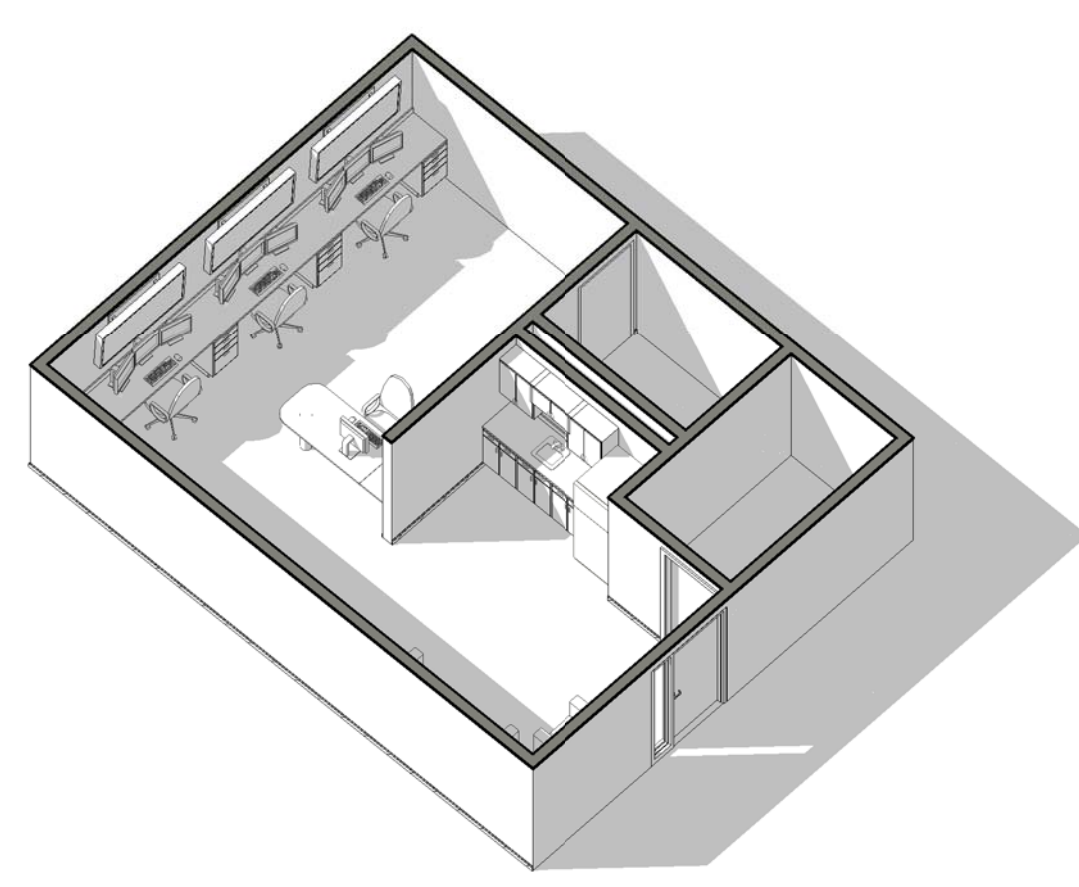
Drawn By: KIW

Checked By: JW

MO115



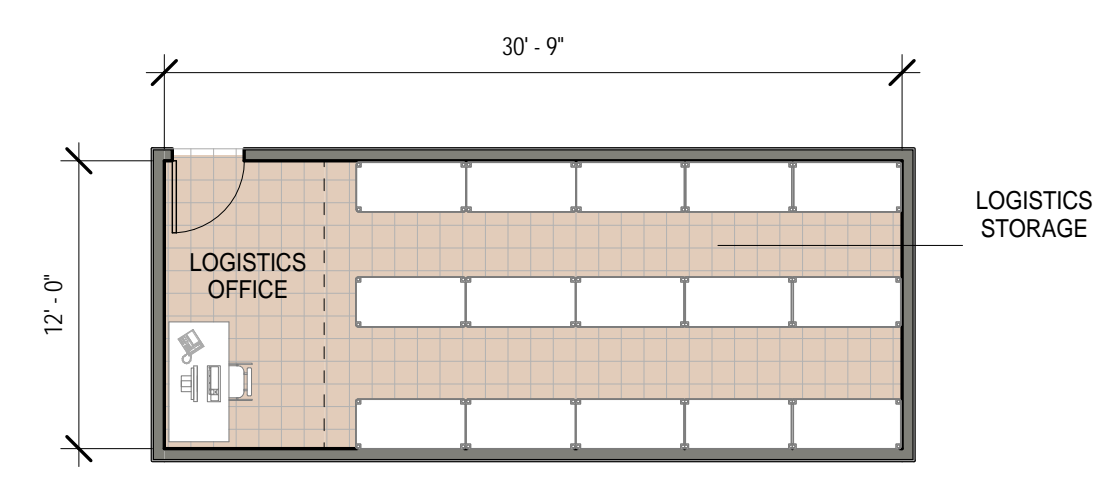
3 LOGISTICS - AXON



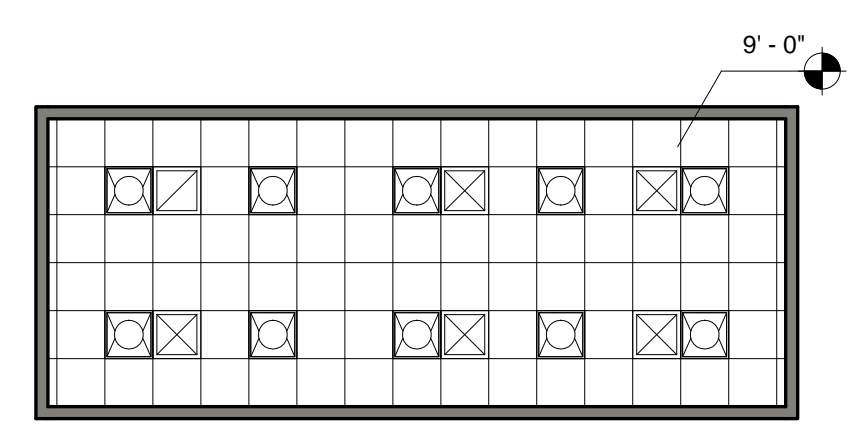
6 DISPATCH (ECC)- AXON



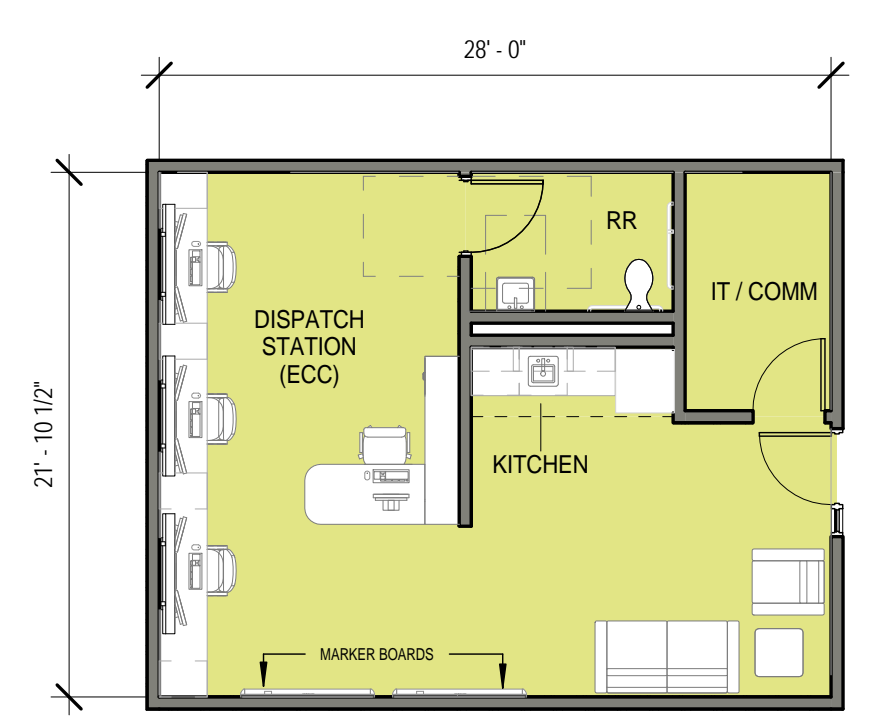
DISPATCH (ECC)



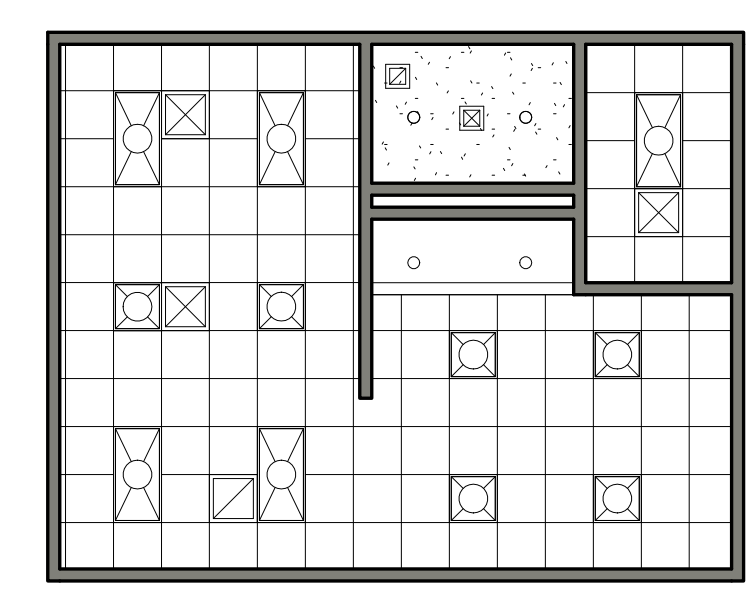
1 LOGISTICS - FLOOR PLAN
1/8" = 1'-0"



2 LOGISTICS - REFLECTED CEILING PLAN
1/8" = 1'-0"



4 DISPATCH (ECC)- FLOOR PLAN
1/8" = 1'-0"



5 DISPATCH (ECC) - REFLECTED CEILING PLAN
1/8" = 1'-0"

1/2/2014 12:29:20 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

GENERAL NOTES

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LOBBY NOTES

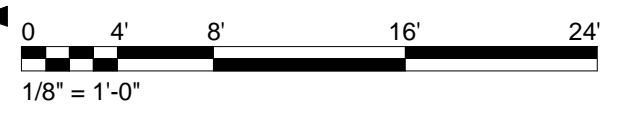
1. LOCATE LOBBY ADJACENT TO ADMINISTRATIVE COMPONENT. PROVIDE UPHOLSTERED SEATING AND SIDE TABLES.
2. PROVIDE WALK-OFF MAT AT ENTRANCE. ENTRANCE SHOULD BE AN AIRLOCK.

FLOOR FINISH LEGEND

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

CEILING LEGEND

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



Jacobs Project No.: FDYD3106

Drawing Title:

**MODULE -
ADMINISTRATIVE -
RESERVE, LOBBY, BREAK
RM**

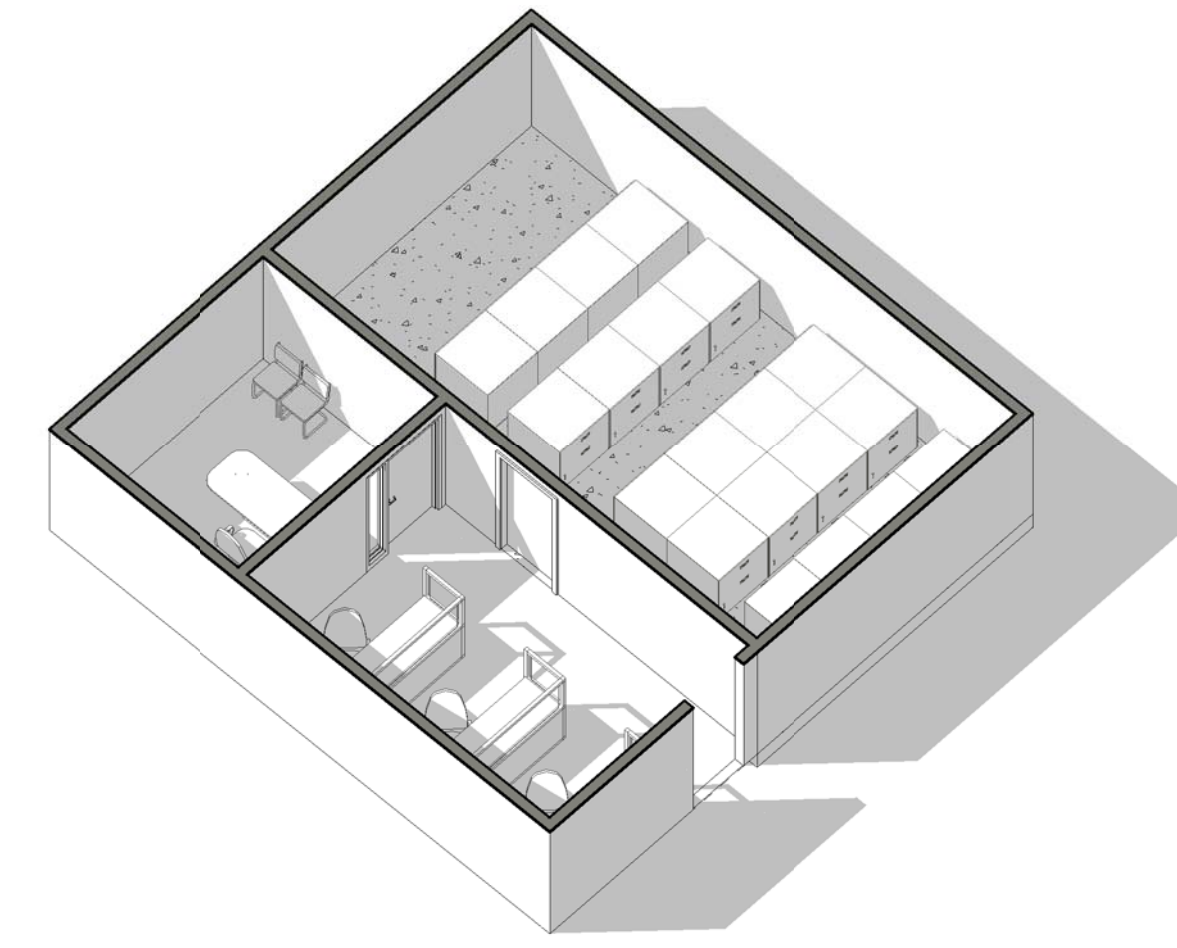
Date: DECEMBER 2013

Designed By: LEG

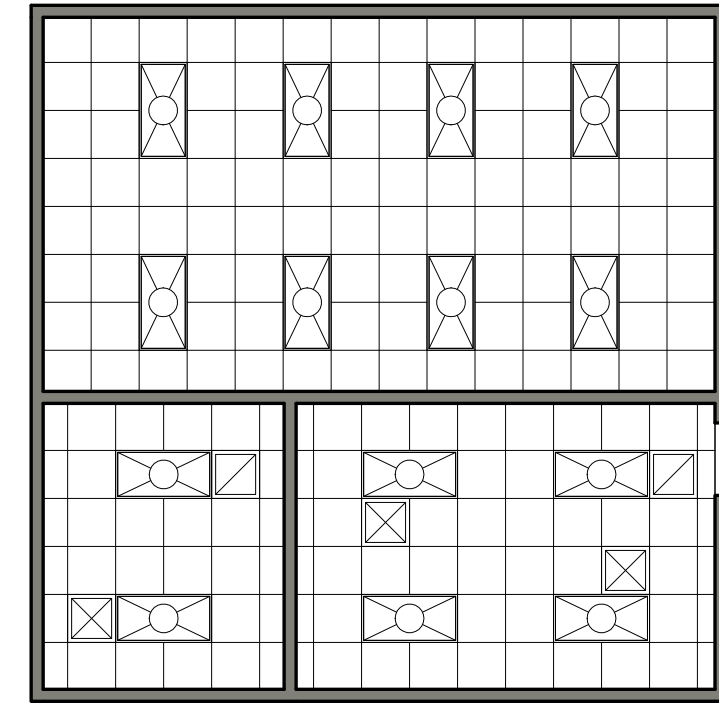
Drawn By: KLV

Checked By: JW

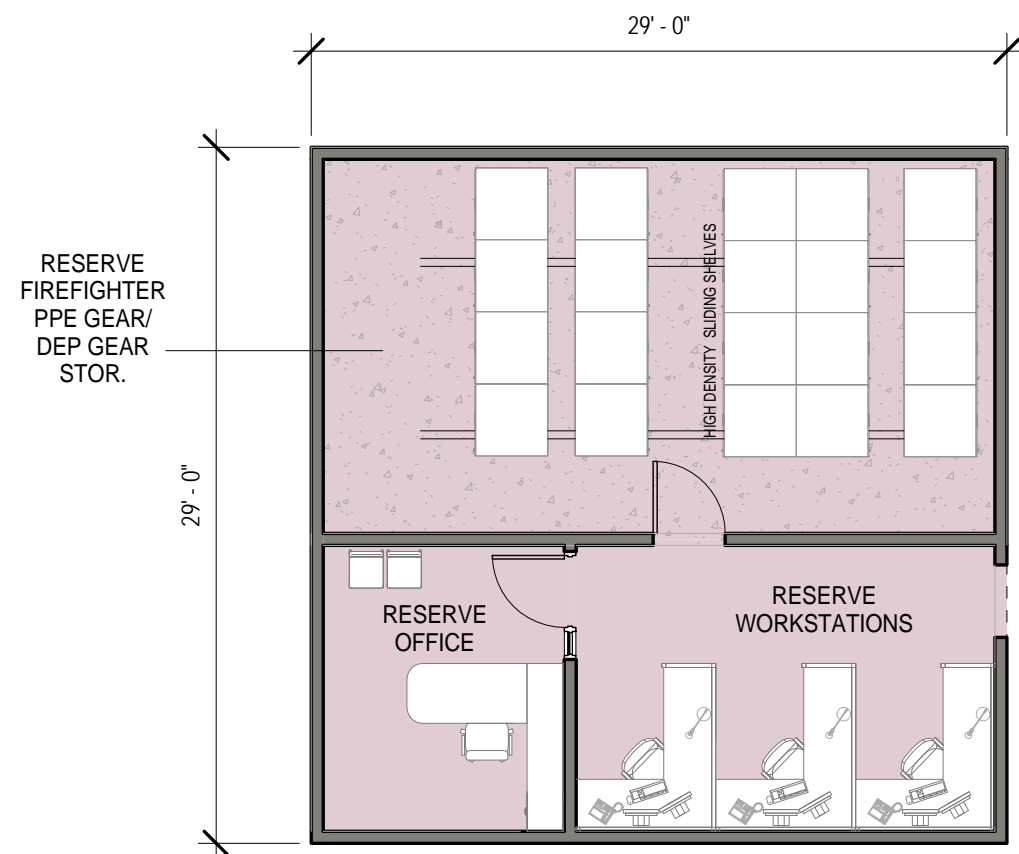
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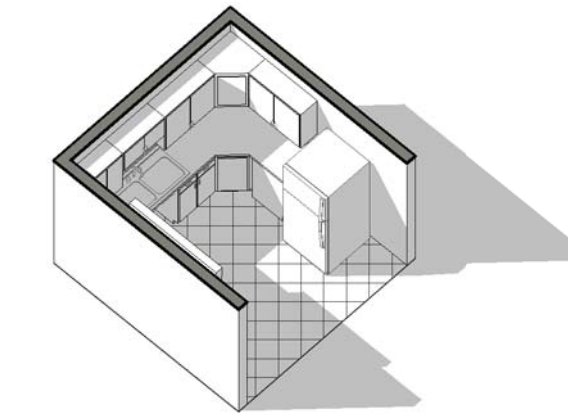
3 RESERVE MODULE - AXON



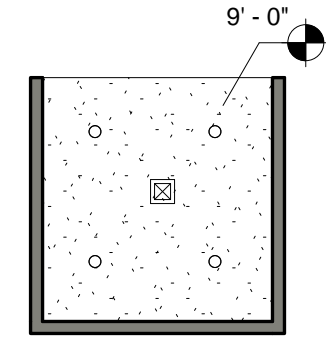
2 RESERVE MODULE- REFLECTED CEILING PLAN
1/8" = 1'-0"



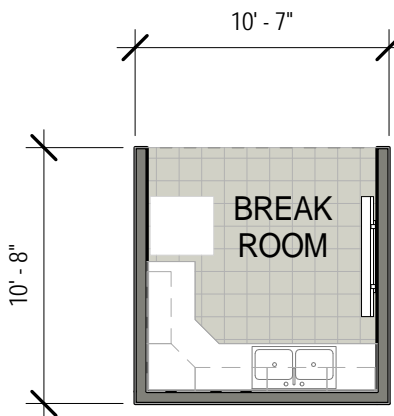
1 RESERVE MODULE - FLOOR PLAN
1/8" = 1'-0"



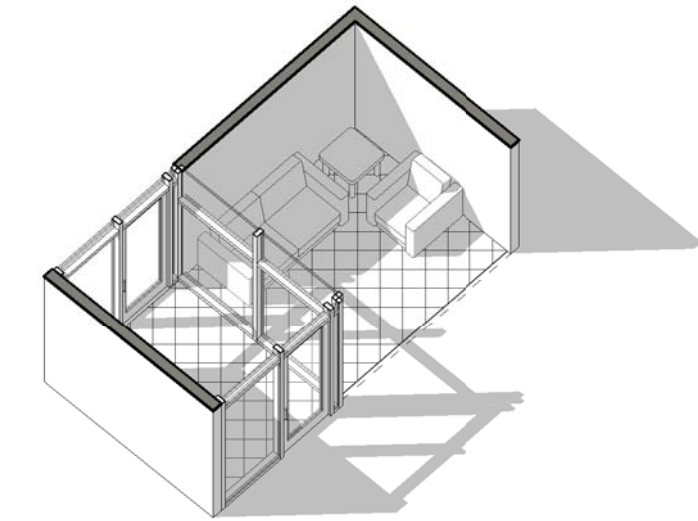
6 BREAK ROOM - AXON



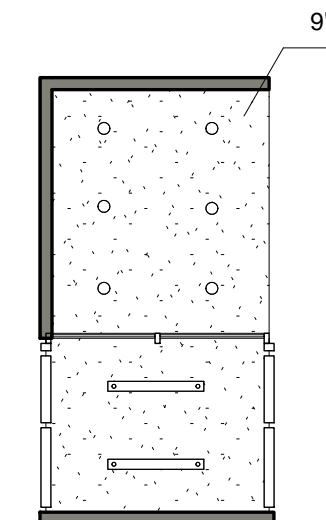
5 BREAK ROOM - REFLECTED CEILING PLAN
1/8" = 1'-0"



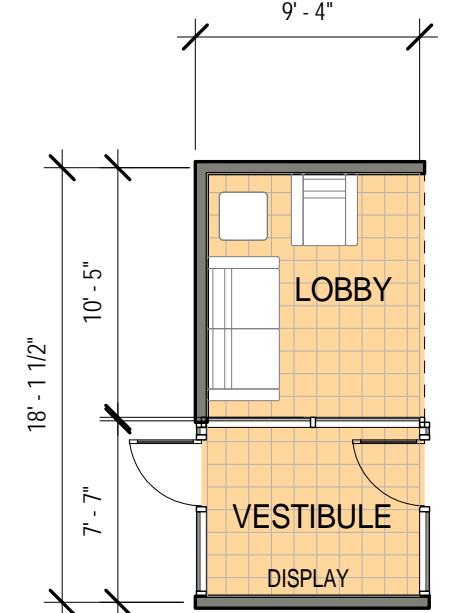
4 BREAK ROOM - FLOOR PLAN
1/8" = 1'-0"



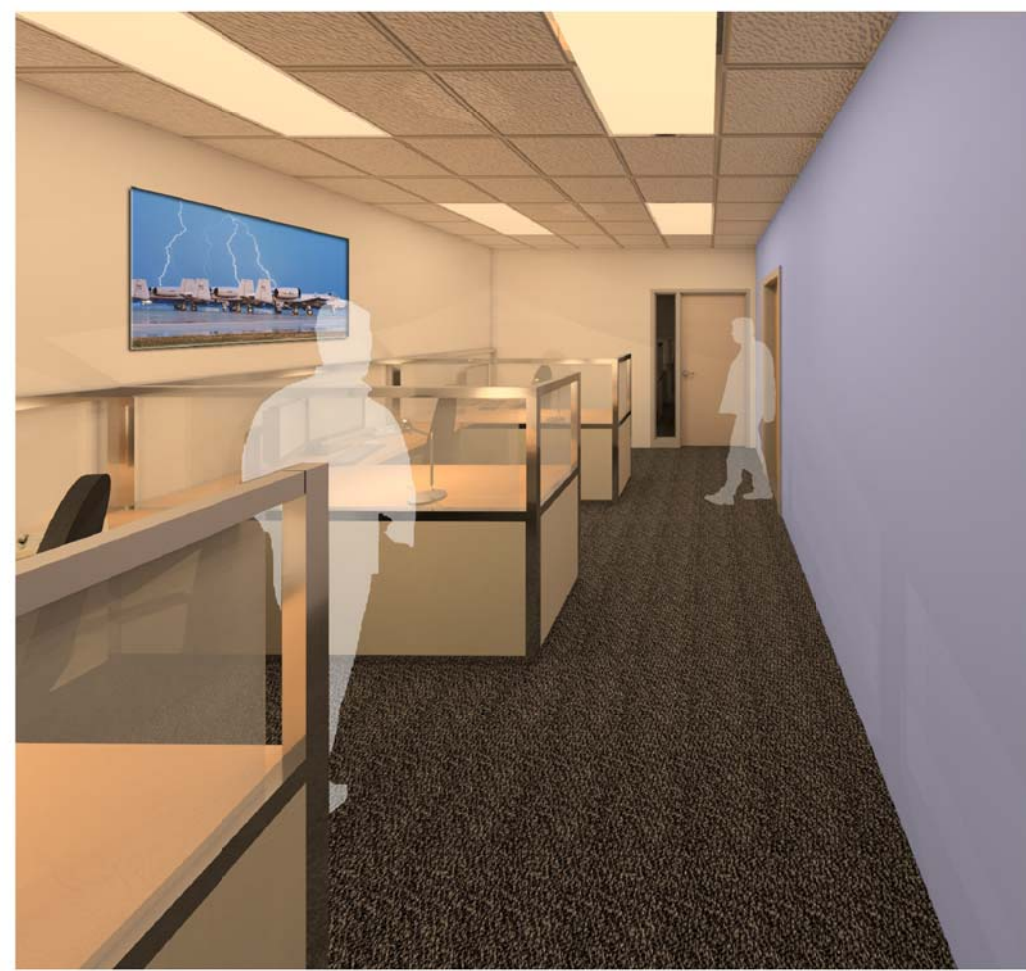
9 LOBBY - AXON



8 LOBBY - REFLECTED CEILING PLAN
1/8" = 1'-0"



7 LOBBY - FLOOR PLAN
1/8" = 1'-0"



RESERVE WORKSTATIONS



LOBBY

SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

1/2/2014 12:29:53 PM

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

FIRE STATION
HEADQUARTERS

Jacobs Project No.: FDYD3106

Drawing Title:

COMPOSITE A - LARGE HEADQUARTERS COMBINATION PROGRAM AND PERSPECTIVES

Date: DECEMBER 2013

Designed By: LEG

Drawn By: KLV

Checked By: JW

Drawing No.: CO101



HEADQUARTERS COMBINATION ENTRY PERSPECTIVE



HEADQUARTERS COMBINATION BUILDING PERSPECTIVE

Modules	REQUIREMENTS		AS DESIGNED			COMMENTS	
	UFC Planning Template (Nov 2011)		SF	Delta (SF)	Delta (%)		
	SM	SF					
Prototype Fire Station - HQ/Main Combination - Composite A							
2 Structural, 4 ARFF Companies with 20 Responders							
MAINTENANCE & APPARATUS AREA							
Apparatus Bay	Apparatus Bay	1,471.5	15,840	16,656	816	5.2%	
	Small Vehicle (two per bay, if needed)	2					
	Medium Structural	7					
	Large Structural	0					
	Medium ARFF	6					
	Large ARFF	0					
Apparatus Support	EMS Storage - Closet	3.7	40	42	2	5.0%	
	Equipment Wash / Disinfection	13.9	150	149	-1	-0.7%	
	Fire Extinguisher Inspection	4.5	48	54	6	12.5%	
	Flightline Fire Extinguishing Maintenance and Storage	14.9	160	174	14	8.8%	
	Flightline Fire Extinguishing Tank Recovery Exterior Covered Storage	0.0	0	19	19	0.0%	Calculated at half area
	HAZMAT / CBRN Equipment Storage	11.5	124	129	5	4.0%	
	Hose Storage	5.0	54	54	0	0.0%	
	Infectious Control	14.9	160	162	2	1.3%	
	PPE Gear Storage	18.6	200	202	2	1.0%	
	Protective Clothing Laundry	27.9	300	300	0	0.0%	
	SCBA Compressor Room	9.3	100	101	1	1.0%	
	SCBA Maintenance Room	27.9	300	300	0	0.0%	
Agent Storage	Spare Flightline Fire Extinguishing Tank Exterior Covered Storage	0.0	0	91	91	0.0%	Calculated at half area
	Spare PPE Gear Storage	5.9	64	61	-3	-4.7%	
	Work Room / Equipment Maintenance	11.1	120.0	119	-1	0	
	Agent Storage (ARFF)	41.8	450.0	440	-10	0	
Agent Storage (Structural)	4.5	48.0	48	0	0		
SUBTOTAL MAINTENANCE & APPARATUS AREA		1,840.6	17,660	18,613	953	5.4%	
DAY ROOM & RESIDENTIAL AREA							
Day	Day Room	223.0	2,400	2,619	219	9.1%	Combination of dining, kitchen, and living
	Hotelling Stations	26.0	286	276	-4	-1.4%	One workstation for every three Responders
	Patio	16.3	175	225	50	28.6%	Calculated at half area
Dorm Rooms	Dorm Rooms	200.7	2,160	2,160	0	0.0%	
	Bathrooms / Showers / Changing - Female Responders	21.7	234	312	78	33.3%	
Restrooms	Lavatories	2					
	Water Closets	2					
	Showers	2					
	Lockers	7					
	Bathrooms / Showers / Changing - Male Responders	38.6	416	415	-1	-0.2%	
	Lavatories	3					(2) Water Closet(s), (2) Urinal(s)
Laundry	Laundry Room	22.3	240	234	-6	-2.5%	
	Fitness Room	111.5	1,200	963	-237	-19.8%	
Recreation	Recreation Room	33.4	360	363	3	0.8%	
SUBTOTAL DAY ROOM & RESIDENTIAL AREA		693.5	7,465	7,567	102	1.4%	
TRAINING & ADMINISTRATIVE AREA							
Lobby	Lobby Area	9.3	100	95	-5	-5.0%	
	Main Entry Vestibule	5.9	64	67	3	4.7%	
	Admin & Training Restrooms	27.1	292	292	0	0.0%	
Admin and Offices	Female Lavatories	1					
	Female Water Closets	2					
	Male Lavatories	2					
	Male Water Closets / Urinals	3					(1) ABA Water Closet, (1) Water Closet(s), (1) Urinal(s)
	Administration & Training Break Room	9.3	100	73	-27	-27.0%	
	Administration Assistant	5.9	64	69	5	7.8%	
	Assistant Chief / Shift Supervisor	11.1	120	120	0	0.0%	Asst. Chief of Operations
	Assistant Chief of Fire Prevention	11.1	120	120	0	0.0%	
	Assistant Chief of Operations / Shift Supervisor's Dorm Room	9.3	100	120	20	20.0%	Hard wall closet construction optional.
	Chief's / Supervisor's Bathroom	9.3	100	108	8	8.0%	(1) Lavatory, (1) Shower, (1) Water Closet
	Chief's Conference Room	11.1	120	125	5	4.2%	
	Deputy Chief's Office	11.1	120	125	5	4.2%	
Training and Testing	EMS Office	5.9	64	112	48	75.0%	Shown as hard wall office
	Fire Chief's Dorm Room	9.3	100	119	19	19.0%	Hard wall closet construction optional.
	Fire Chief's Office	11.1	120	120	0	0.0%	
	General Administration Storage	7.4	80	80	0	0.0%	
	HAZMAT / Safety Office	11.1	120	120	0	0.0%	
	Inspector's Office(s) / Workstation(s)	11.9	128	117	-11	-8.6%	
	Station Chief Office / Watch Desk	11.1	120	117	-3	-2.5%	Station Chief / Station Capt.
	Union Representative - Office	9.3	100	101	1	1.0%	
	Computer Training / Testing Room	19.5	210	205	-5	-2.4%	
	Training Officer Office	9.3	100	103	3	3.0%	Asst. Chief of Training
	Training Room	52.0	560	554	-6	-1.1%	
	Training Room Storage	7.4	80	141	61	76.3%	
Logistics	Logistics Office	7.4	80	80	0	0.0%	
	Logistics Storage	24.2	260	266	6	2.3%	
Reserve	Air Force Reserve and Active Duty Mobility / Deployment Gear Stor.	18.6	200	200	0	0.0%	
	Air Force Reserve Firefighter PPE Gear	22.3	240	234	-6	-2.5%	10 SF / Reservist
	Air Force Reserve Supervisor	11.1	120	115	-5	-4.2%	
	Air Force Reserve Workstations	17.8	192	210	18	9.4%	
SUBTOTAL TRAINING & ADMINISTRATIVE AREA		393.3	4,234	4,308	74	1.7%	
EMERGENCY CONTROL CENTER (ECC)							
ECC	ECC Dispatcher	35.7	384	377	-7	-1.8%	
	ECC IT Room	5.8	60	60	0	0.0%	
	ECC Kitchenette	1.9	20	20	0	0.0%	
	ECC Restroom	4.5	48	48	0	0.0%	
	ECC Supervisor	5.9	64	70	6	9.4%	
SUBTOTAL E.C.C. AREA		63.6	676	676	-1	-0.2%	
FIRE STATION NET ASSIGNED FLOOR AREA		2,781.0	29,935	31,063	1,128	3.8%	
INFRASTRUCTURE							
Facility Maint.	Janitor	14.0	151	97	-54	-35.6%	1/2% of Net Assigned Area
	Electrical Rooms	56.0	603	351	-252	-41.8%	2% of Net Assigned Area
	Mechanical Room - Admin Area	24.5	264	280	16	6.1%	Based upon Conditioned Area
	Mechanical Room - Responders Area	40.1	432	291	-141	-32.6%	Based upon Conditioned Area
Telecomm / IT	Base IT / Comms Room (s)	11.1	120	240	120	100.0%	
	IT / Comms	5.6	60	61	1	1.7%	
Vending	Vending / Recycling	7.4	80	84	4	5.0%	Based on number of Structural and/or ARFF Cos.
SUBTOTAL INFRASTRUCTURE AREA		158.8	1,710	1,404	-306	-17.9%	
FIRE STATION NET FUNCTIONAL AREA		2,939.8	31,645	32,467	822	2.6%	
NON-FUNCTION SPACE							
Circulation	Corridors, Halls, and other Interior Circulation	417.1	4,490	2,449	-2,041	-45.5%	15% of Net Assigned Area
	Covered Exterior Entries			129	129	0.0%	Calculated at half area
	Walls	Interior Partitions and Walls	222.5	2,395	3,480	1,085	45.3%
SUBTOTAL NON-FUNCTION AREA		639.6	6,885	6,058	-827	-12.0%	
TOTAL FIRE STATION GROSS AREA		3,579.4	38,530	38,525	-5	0.0%	
FIRE STATION DESIGN EFFICIENCY		78%	81%				

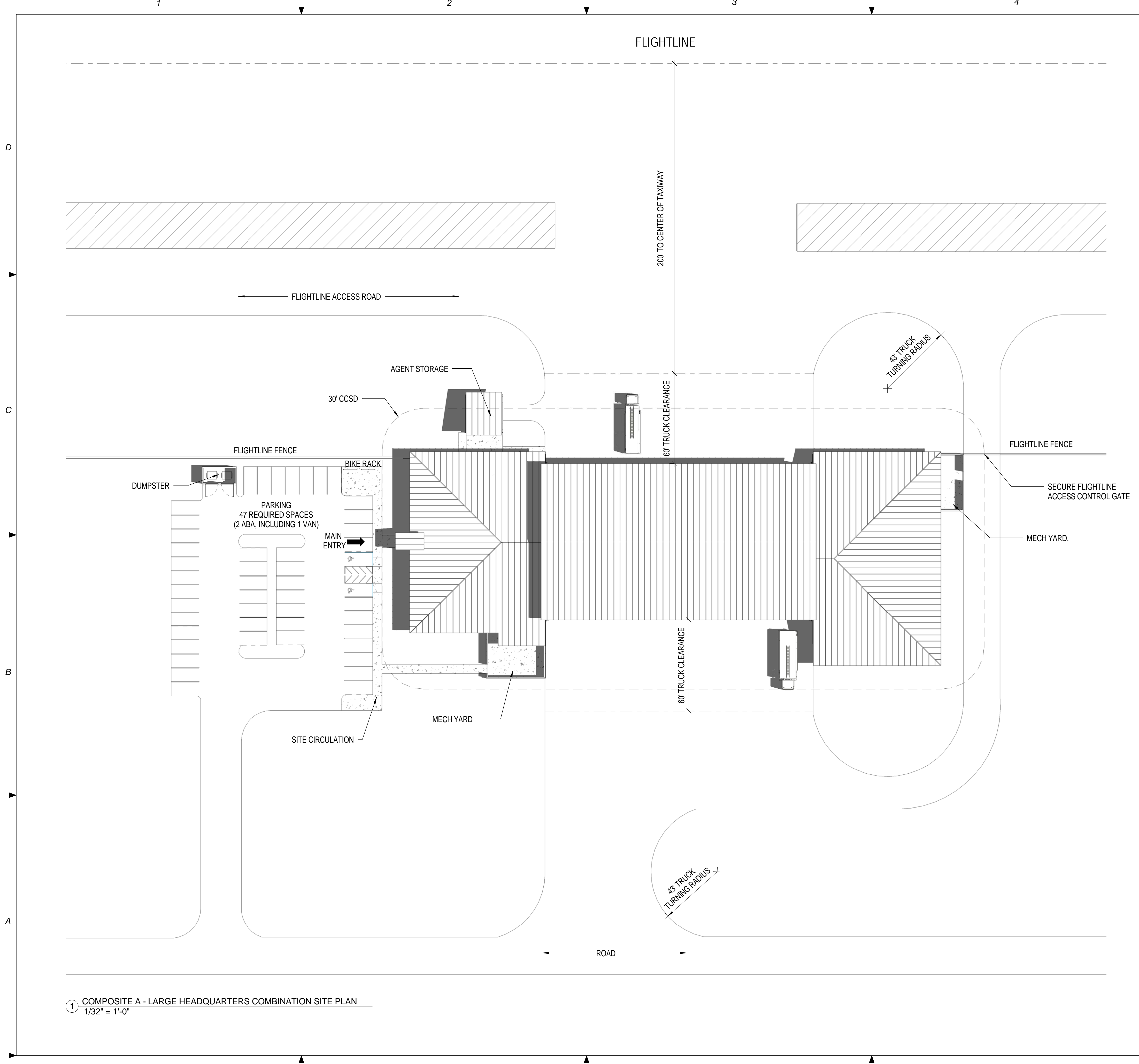
PREDESIGN AREA MATRIX

COMPOSITE PLAN AND SITE NOTES

- 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 MISSIONS, 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.
- STORM WATER QUALITY/QUANTITY MITIGATION ARE NOT INCLUDED FOR THIS CONCEPTUAL SITE PLAN.
- ALL FUTURE FACILITIES WILL COMPLY WITH CURRENT ATFP REQUIREMENTS, AFF REGULATIONS AND CURRENT UFC.
- PRACTICE, WATER DUMP, AND TRUCK WASH AREAS TO BE DETERMINED ON SITE ON A CASE BY CASE NEEDS.
- AGENT STORAGE LOCATED ON STRUCTURE SIDE ON COMPOSITE A, ALTERNATIVE ON COMPOSITE B SHOWN ON ARFF SIDE.

CONVENTIONAL CONSTRUCTION STANDOFF DISTANCES (CCSD)

- 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 STANDARD (BILLETING 11OR MORE DoD OCCS ROUTINELY HOUSED)
 - NON-LOAD BEARING WALLS
 - WALL TYPE: REINFORCED MASONRY



**AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:
FIRE STATION
HEADQUARTERS**



Jacobs Project No.: FDYD3106

Drawing Title:
COMPOSITE A - LARGE HEADQUARTERS COMBINATION SITE

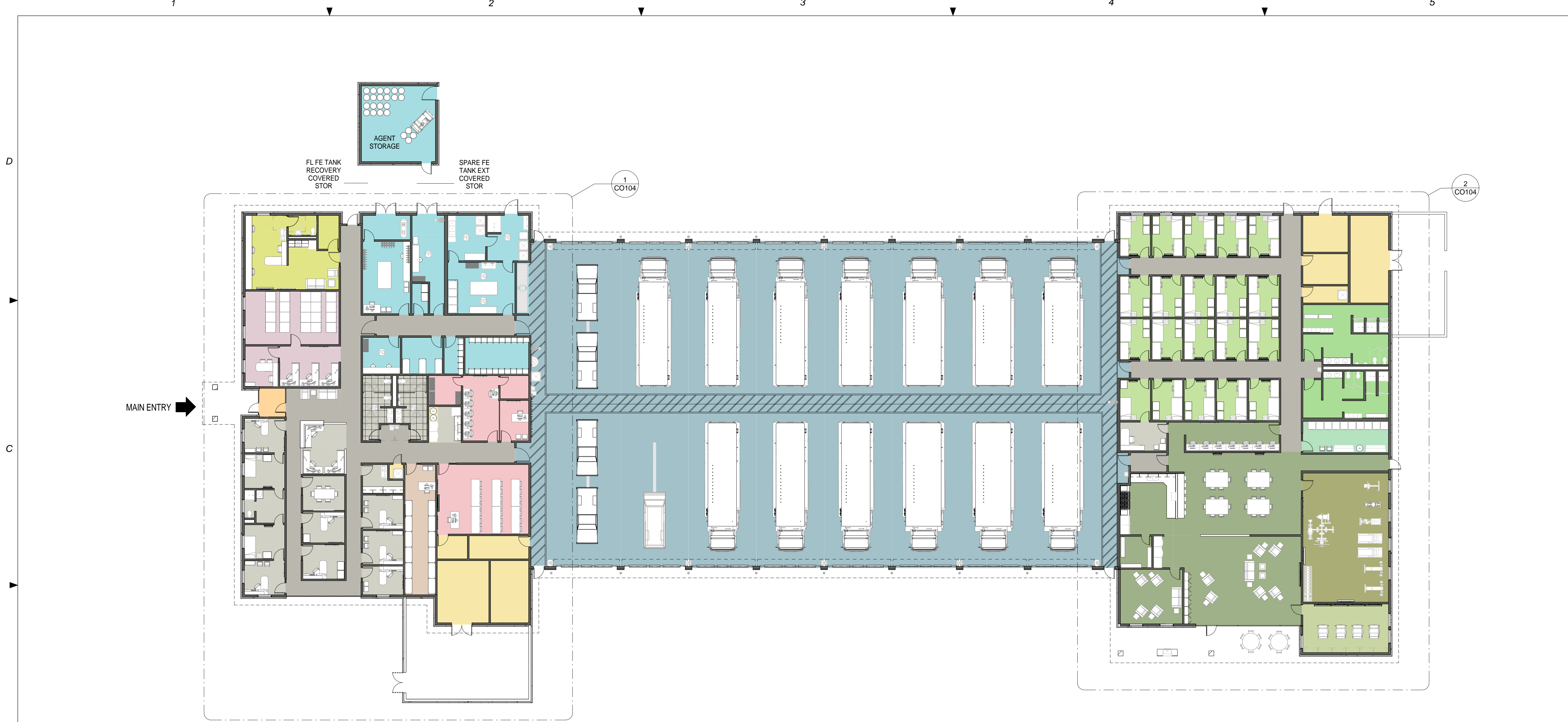
Date: DECEMBER 2013

Designed By: LEG
Drawn By: KLW
Checked By: JW

CO102

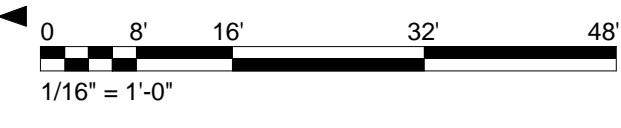
① COMPOSITE A - LARGE HEADQUARTERS COMBINATION SITE PLAN
1/32" = 1'-0"

1/2/2014 11:46:18 AM
SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET



COMPOSITE A -
OVERALL FLOOR PLAN
1/16" = 1'-0"

AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:
**FIRE STATION
HEADQUARTERS**



GENERAL NOTES

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.

MODULE LEGEND

APPARATUS BAYS	APPARATUS SUPPORT	AGENT STORAGE	DAYROOM	FITNESS	DORM	RESPONDER RESTROOM	ADMIN RESTROOM	LAUNDRY	LOBBY/ VESTIBULE
ADMINISTRATION	TRAINING	TESTING	RESERVE	LOGISTICS	DISPATCH (ECC)	BREAK ROOM	HOTELING	RECREATION	

Jacobs Project No.: FDYD3106

Drawing Title:
COMPOSITE A - LARGE HEADQUARTERS OVERALL FLOOR PLAN

Date: DECEMBER 2013

Designed By: LEG
Drawn By: KLV
Checked By: JW

CO103

12/2014 11:18:37 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET



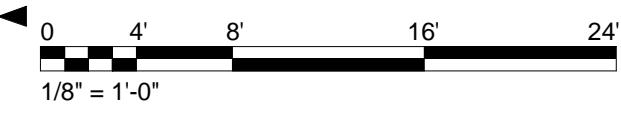
1 COMPOSITE A - ENLARGED FLOOR PLAN
1/8" = 1'-0"



2 COMPOSITE A - ENLARGED FLOOR PLAN
1/8" = 1'-0"

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

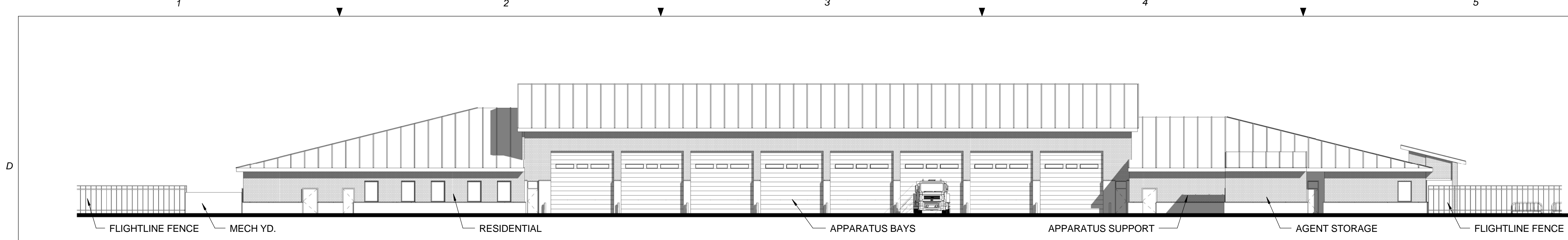
FIRE STATION HEADQUARTERS



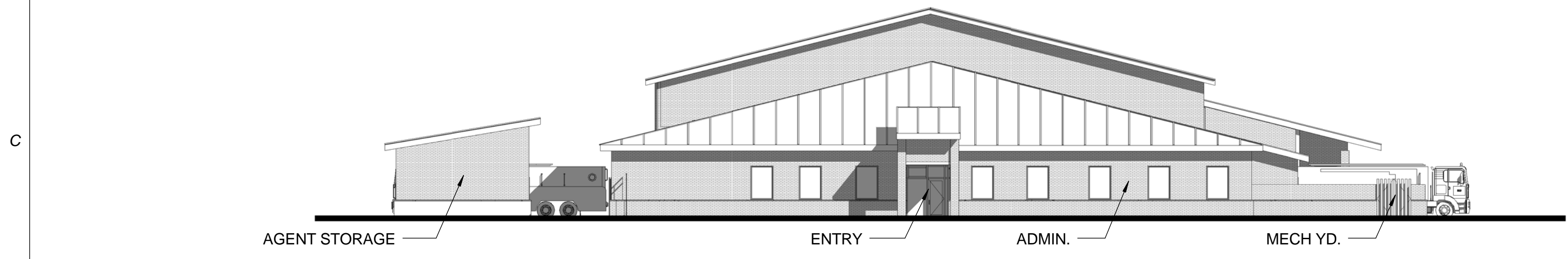
Jacobs Project No.: FDYD3106
Drawing Title:
COMPOSITE A - LARGE HEADQUARTERS COMBINATION ENLARGED FLOOR PLANS

Date: DECEMBER 2013
Designed By: LEG
Drawn By: KLV
Checked By: JW
Drawing No.: **CO104**

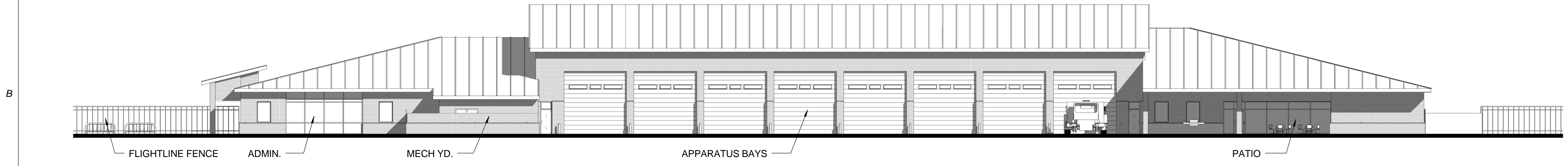
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SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET



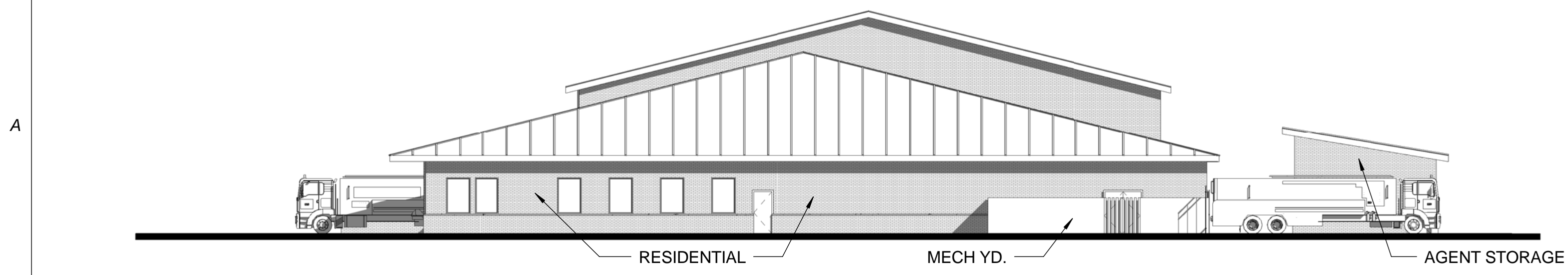
① COMBINATION A - ELEVATION 1
1/16" = 1'-0"



② COMBINATION A - ELEVATION 2
1/16" = 1'-0"



③ COMBINATION A - ELEVATION 3
1/16" = 1'-0"

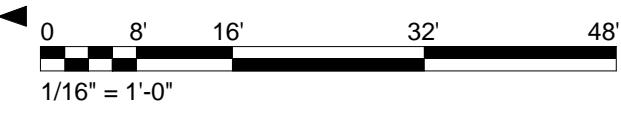


④ COMBINATION A - ELEVATION 4
1/16" = 1'-0"

**AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:
FIRE STATION
HEADQUARTERS**

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.



Jacobs Project No.: FDYD3106

Drawing Title:
**COMPOSITE A - LARGE
HEADQUARTERS
COMBINATION
ELEVATIONS**

Date: DECEMBER 2013

Designed By: LEG
Drawn By: KIW
Checked By: JW

CO105

1/2/2014 11:50:50 AM
SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

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

FIRE STATION
HEADQUARTERS

Jacobs Project No.: FDYD3106

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

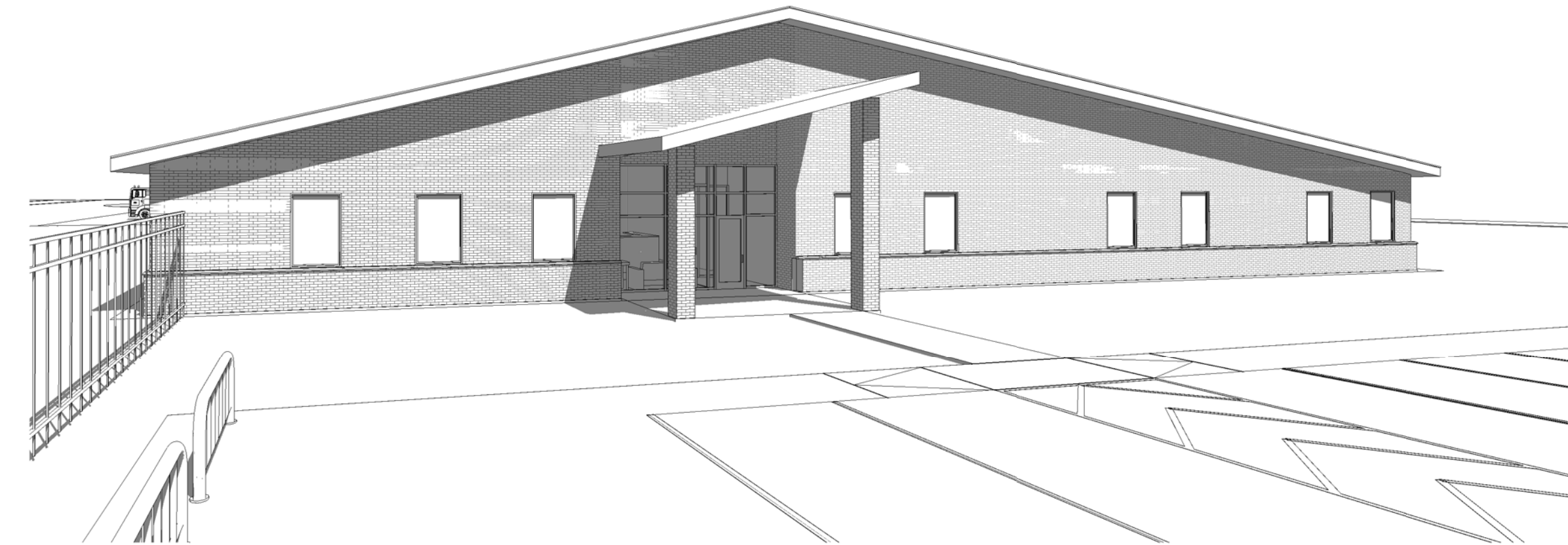
Date: DECEMBER 2013

Designed By: LEG

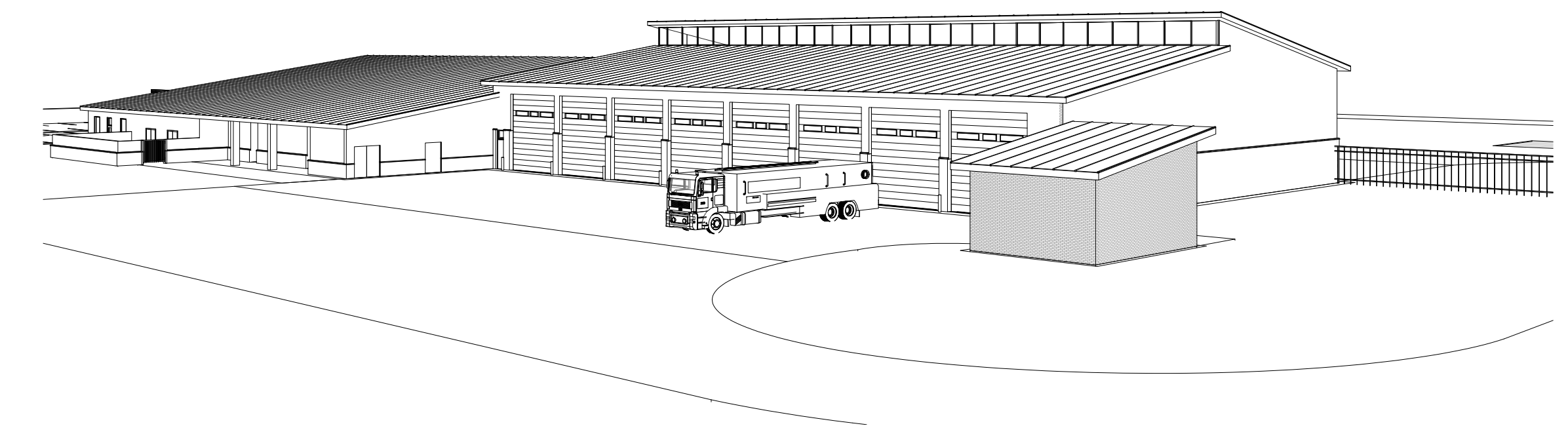
Drawn By: KLW

Checked By: JW

Drawing No.:
CO106



COMPOSITE B - LARGE HEADQUARTERS COMBINATION ENTRY PERSPECTIVE



COMPOSITE B - LARGE HEADQUARTERS COMBINATION OVERALL PERSPECTIVE

Prototype Fire Station HQ/Main Combination - Composite B 2 Structural, 4 ARFF Companies with 20 Responders		REQUIREMENTS UFC Planning Template Nov 2011		AS DESIGNED			COMMENTS
Modules		SM	SF	SF	Delta (SF)	Delta (%)	
MAINTENANCE & APPARATUS AREA							
Apparatus Bays	Apparatus Bay	1,471.5	15,840	15,946	106	0.7%	
	Small Vehicle (two per bay, if needed)	2					
	Medium Structural	7					
	Large Structural	0					
Apparatus Support	Medium ARFF	0					
	Large ARFF	0					
	EMS Storage - Closet	3.7	40	43	3	7.5%	
	Equipment Wash / Disinfection	13.9	150	154	4	2.7%	
	Fire Extinguisher Inspection	4.5	48	43	-5	-10.4%	
	Flightline Fire Extinguisher Maintenance and Storage	14.9	160	175	15	9.4%	
	HAZMAT / CBRN Equipment Storage	11.1	120	131	11	9.2%	
	Hose Storage	5.0	54	58	4	7.4%	
	Infectious Control	14.9	160	173	13	8.1%	
	PPE Gear Storage	18.6	200	208	8	4.0%	
	Protective Clothing Laundry	27.9	300	308	8	2.7%	
	SCBA Compressor Room	9.3	100	106	6	6.0%	
SCBA Maintenance Room	27.9	300	325	25	8.3%		
Spare PPE Gear Storage	5.9	64	65	1	1.6%		
Work Room / Equipment Maintenance	11.1	120.0	128	8	0		
Agent Storage	Agent Storage (ARFF)	41.8	450.0	450	0	0	
	Agent Storage (Structural)	4.5	48.0	48	0	0	
SUBTOTAL MAINTENANCE & APPARATUS AREA		1,640.2	17,656	17,863	207	1.2%	
DAY ROOM & RESIDENTIAL AREA							
Day	Day Room	223.0	2,400	2,428	28	1.2%	Combination of dining, kitchen, and living One workstation for every three Responders Calculated at half area
	Hoteling Stations	26.0	280	287	7	2.5%	
	Patio	16.3	175	178	3	1.7%	
Dorm Rooms	Dorm Rooms	200.7	2,160	2,160	0	0.0%	
	Bathrooms / Showers / Changing - Female Responders	21.7	234	235	1	0.4%	
Restrooms	Lavatories	2					
	Water Closets	2					
	Showers	2					
	Lockers	7					
	Bathrooms / Showers / Changing - Male Responders	38.6	416	400	-16	-3.8%	
	Lavatories	3					
	Water Closets / Urinals	4					
Laundry	Showers	3					
	Lockers	16					
Fitness	Laundry Room	22.3	240	226	-14	-5.8%	
	Fitness Room	111.5	1,200	1,129	-71	-5.9%	
Recreation	Recreation Room	33.4	360	360	0	0.0%	
SUBTOTAL DAY ROOM & RESIDENTIAL AREA		693.5	7,465	7,403	-62	-0.8%	
TRAINING & ADMINISTRATIVE AREA							
Lobby	Lobby Area	9.3	100	99	-1	-1.0%	
	Main Entry Vestibule	5.9	64	69	5	7.8%	
	Admin & Training Restrooms	27.1	292	336	44	15.1%	
Admin and Offices	Female Lavatories	1					
	Female Water Closets	2					
	Male Lavatories	2					
	Male Water Closets / Urinals	3					
	Administration & Training Break Room	9.3	100	100	0	0.0%	
	Administration Assistant	5.9	64	65	1	1.6%	
	Assistant Chief / Shift Supervisor	11.1	120	119	-1	-0.8%	Asst. Chief of Operations
	Assistant Chief of Fire Prevention	11.1	120	123	3	2.5%	
	Assistant Chief of Operations / Shift Supervisor's Dorm Room	9.3	100	124	24	24.0%	
	Chief's / Supervisor's Bathroom	9.3	100	109	9	9.0%	(1) Lavatory, (1) Shower, (1) Water Closet
	Chief's Conference Room	11.1	120	120	0	0.0%	
	Deputy Chief's Office	11.1	120	119	-1	-0.8%	
	EMS Office	5.9	64	64	0	0.0%	
	Fire Chief's Dorm Room	9.3	100	124	24	24.0%	
	Fire Chief's Office	11.1	120	120	0	0.0%	
General Administration Storage	7.4	80	80	0	0.0%		
HAZMAT / Safety Office	11.1	120	119	-1	-0.8%		
Inspector's Office(s) / Workstation(s)	11.9	128	132	4	3.1%		
Station Chief Office / Watch Desk	11.1	120	120	0	0.0%	Station Chief / Station Capt.	
Union Representative - Office	9.3	100	100	0	0.0%		
Training and Testing	Computer Training / Testing Room	19.5	210	200	-10	-4.8%	
	Training Officer Office	9.3	100	112	12	12.0%	Asst. Chief of Training
	Training Room	52.0	560	533	-27	-4.8%	
Logistics	Training Room Storage	7.4	80	72	-8	-10.0%	
	Logistics Office	7.4	80	92	12	15.0%	
	Logistics Storage	24.2	260	327	67	25.8%	
Reserve	Air Force Reserve and Active Duty Mobility / Deployment Gear Stor.	18.6	200	200	0	0.0%	
	Air Force Reserve Firefighter PPE Gear	22.3	240	225	-15	-6.3%	
	Air Force Reserve Supervisor	11.1	120	116	-4	-3.3%	10 SF / Reservist
	Air Force Reserve Workstations	17.8	192	177	-15	-7.8%	
SUBTOTAL TRAINING & ADMINISTRATIVE AREA		393.3	4,234	4,296	62	1.5%	
EMERGENCY CONTROL CENTER (ECC)							
ECC	ECC Dispatcher	35.7	384	352	-32	-8.3%	
	ECC IT Room	5.6	60	58	-2	-3.3%	
	ECC Kitchenette	1.9	20	20	0	0.0%	
	ECC Restroom	4.5	48	48	0	0.0%	
	ECC Supervisor	5.9	64	58	-6	-9.4%	
SUBTOTAL E.C.C. AREA		53.5	576	536	-40	-6.9%	
FIRE STATION NET ASSIGNED FLOOR AREA		2,780.6	29,931	30,098	167	0.6%	
INFRASTRUCTURE							
Facility Maint.	Janitor	14.0	151	23	-128	-84.7%	1/2% of Net Assigned Area
	Mechanical / Electrical	56.0	603	515	-88	-14.6%	2% of Net Assigned Area
Telecomm / IT	Mechanical Room - Admin Area	24.5	264	696	432	163.6%	Based upon Conditioned Area
	Base IT / Comms Room (s)	11.1	120	264	144	120.0%	
Vending	IT / Comms	5.6	60	61	1	1.7%	
	Vending / Recycling	7.4	80	80	0	0.0%	Based on number of Structural and/or ARFF Cos
SUBTOTAL INFRASTRUCTURE AREA		158.8	1,710	1,639	-71	-4.1%	
FIRE STATION NET FUNCTIONAL AREA		2,939.4	31,641	31,737	97	0.3%	
NON-FUNCTION SPACE							
Circulation	Corridors, Halls, and other Interior Circulation	417.1	4,490	3,137	-1,353	-30.1%	15% of Net Assigned Area
	Entries			158	158	0.0%	Calculated at half area
	Walls	Interior Partitions and Walls	222.4	2,394	2,773	378	15.8%
SUBTOTAL NON-FUNCTION AREA		639.5	6,884	6,068	-816	-11.9%	
TOTAL FIRE STATION GROSS AREA		3,578.9	38,525	37,805	-720	-1.9%	
FIRE STATION DESIGN EFFICIENCY			78%	80%			

PREDESIGN AREA MATRIX

SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET
1/2/2014 11:52:03 AM

COMPOSITE PLAN AND SITE NOTES

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 - PRACTICE, WATER DUMP, AND TRUCK WASH AREAS TO BE DETERMINED ON SITE ON A CASE BY CASE NEEDS.
 - AGENT STORAGE LOCATED ON STRUCTURE SIDE ON COMPOSITE A, ALTERNATIVE ON COMPOSITE B SHOWN ON ARFF SIDE.
- CONVENTIONAL CONSTRUCTION STANDOFF DISTANCES (CCSD)
- 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 STANDARD (BILLETING 11OR MORE DoD OCCS ROUTINELY HOUSED)
 - NON-LOAD BEARING WALLS
 - WALL TYPE: REINFORCED MASONRY

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

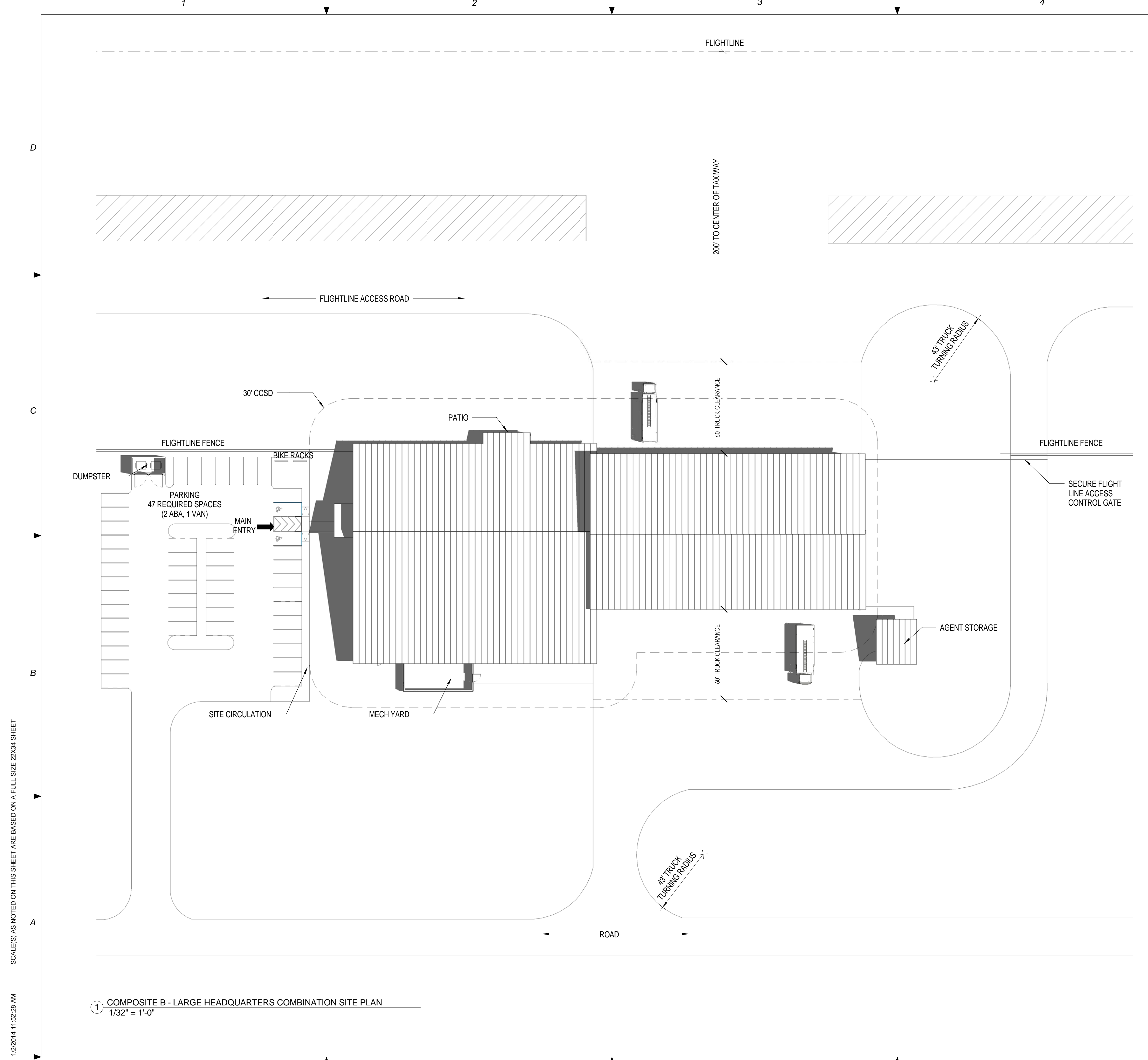
**FIRE STATION
HEADQUARTERS**



Jacobs Project No.: FDYD3106

Drawing Title:
COMPOSITE B - LARGE HEADQUARTERS COMBINATION SITE

Date: DECEMBER 2013
Designed By: LEG
Drawn By: KLV
Checked By: JW
Drawing No.: **CO107**



① COMPOSITE B - LARGE HEADQUARTERS COMBINATION SITE PLAN
1/32" = 1'-0"

1/2/2014 11:52:28 AM
SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET



① COMPOSITE B - OVERALL FLOOR PLAN
1/16" = 1'-0"

AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:
**FIRE STATION
HEADQUARTERS**



GENERAL NOTES

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3. BUILDINGS ARE NOTIONAL AND SHOULD BE MODIFIED BASED ON THE SITE AND REQUIREMENTS OF THE SPECIFIC FACILITY.

MODULE LEGEND

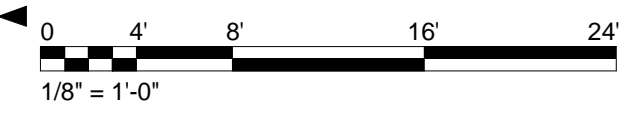


Jacobs Project No.: FDYD3106
Drawing Title:
COMPOSITE B - LARGE HEADQUARTERS COMBINATION OVERALL FLOOR PLAN
Date: DECEMBER 2013
Designed By: LEG
Drawn By: KLW
Checked By: JW
Drawing No.: **CO108**

1/2/2014 1:32:24 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET



**AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:
FIRE STATION
HEADQUARTERS**



Jacobs Project No.: FDYD3106
 Drawing Title:
COMPOSITE B - LARGE HEADQUARTERS COMBINATION FLOOR PLAN

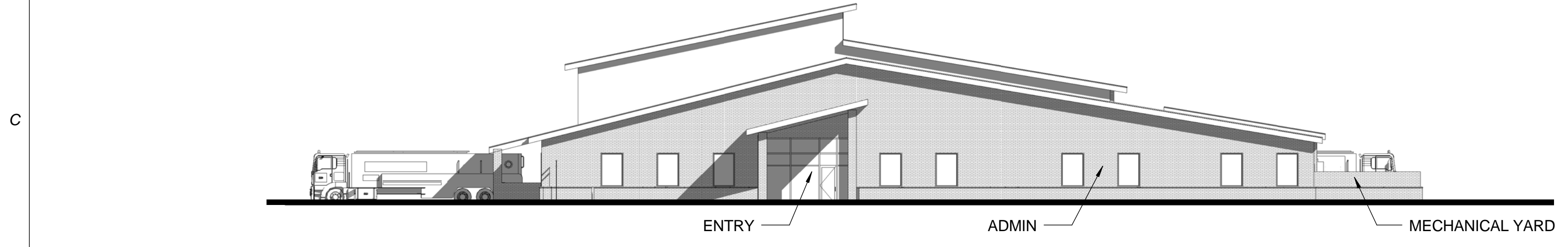
Date: DECEMBER 2013
 Designed By: LEG
 Drawn By: KIW
 Checked By: JW
CO109

① COMPOSITE B - ENLARGED FLOOR PLAN
1/8" = 1'-0"

1/2/2014 2:28:37 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET



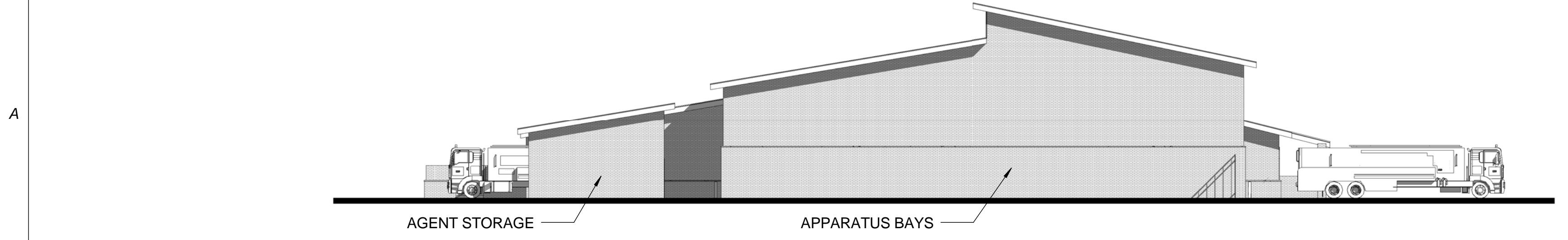
① COMPOSITE B - ELEVATION 1
1/16" = 1'-0"



② COMPOSITE B - ELEVATION 2
1/16" = 1'-0"



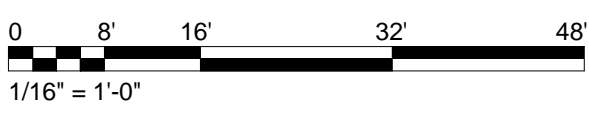
③ COMPOSITE B - ELEVATION 3
1/16" = 1'-0"



④ COMPOSITE B - ELEVATION 4
1/16" = 1'-0"

**AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:
FIRE STATION
HEADQUARTERS**

- 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.



Jacobs Project No.: FDYD3106

Drawing Title:
**COMPOSITE B - LARGE
HEADQUARTERS
COMBINATION
ELEVATIONS**

Date: DECEMBER 2013

Designed By: LEG

Drawn By: KLV

Checked By: JW

CO110

1/2/2014 4:44:20 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

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

FIRE STATION
HEADQUARTERS

Jacobs Project No.: FDYD3106

Drawing Title:

COMPOSITE A - HEADQUARTERS ARFF PROGRAM AND PERSPECTIVES

Date: DECEMBER 2013

Designed By: LEG

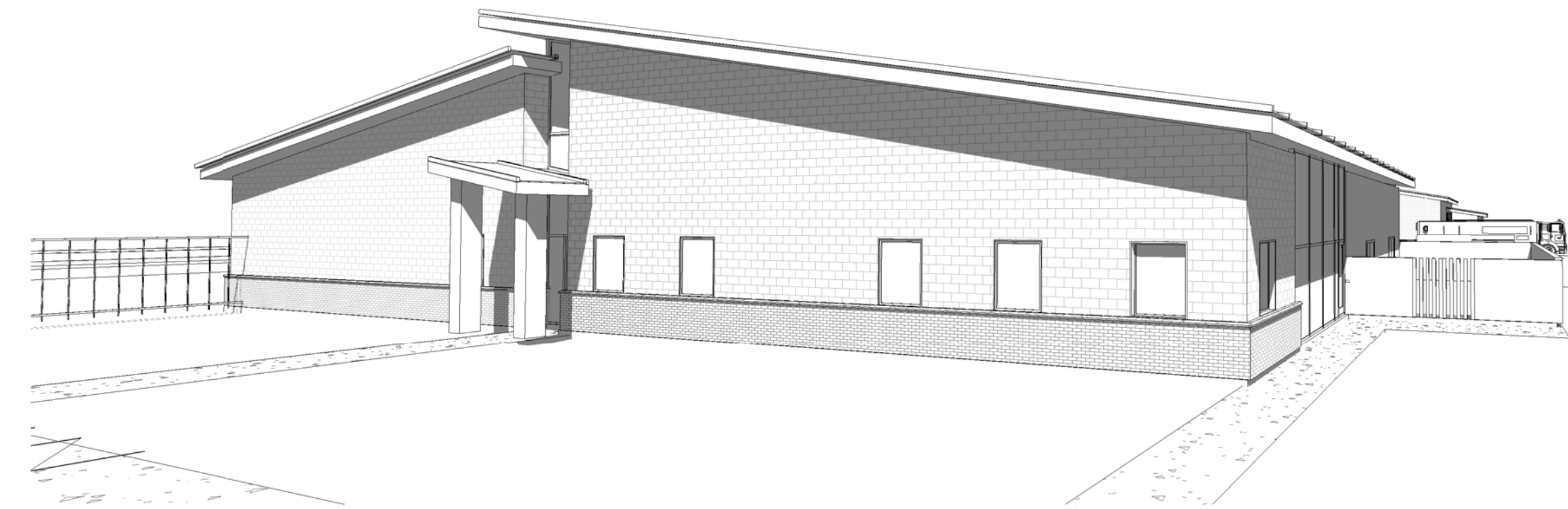
Drawn By: KLV

Checked By: JW

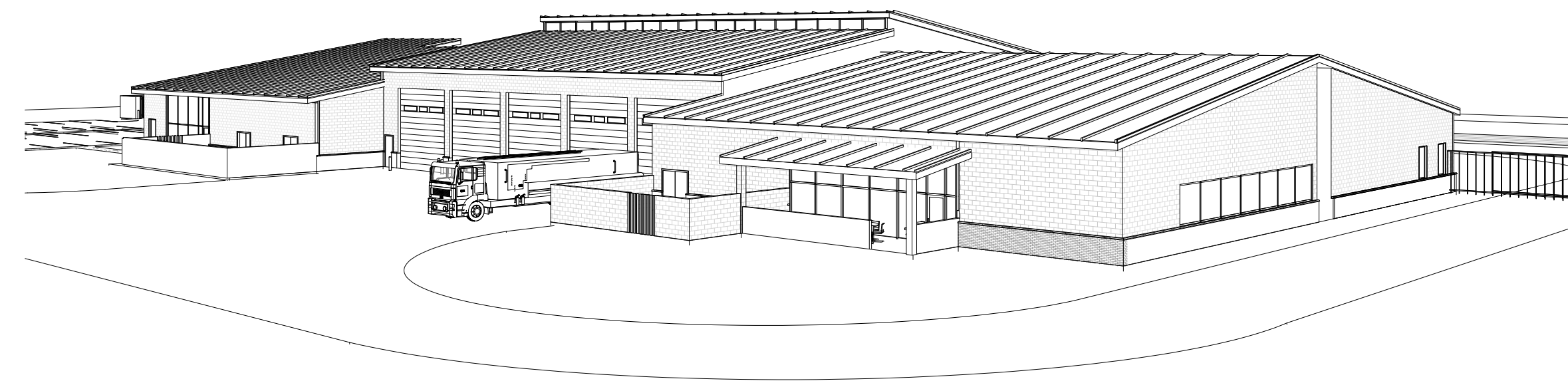
Drawing No.: CO111

Prototype Fire Station - HQ/Main ARFF - Composite A 0 Structural, 8 ARFF Companies with 23 Responders		REQUIREMENTS UFC Planning Template (Nov 2011)		AS DESIGNED		COMMENTS	
Modules	SM	SF	SF	Delta (SF)	Delta (%)		
MAINTENANCE & APPARATUS AREA							
Apparatus Bays	981.0	10,560	10,625	65	0.6%		
Apparatus Support	3.7	40	49	9	22.5%		
Agent Storage	48.8	525	532	7	0		
SUBTOTAL MAINTENANCE & APPARATUS AREA		1,173.3	12,630	12,660	30	0.2%	
DAY ROOM & RESIDENTIAL AREA							
Day Room	256.4	2,760	2,793	33	1.2%		
Dorm Rooms	230.8	2,484	2,476	-8	-0.3%		
Restrooms	43.5	468	416	-52	-11.1%		
Laundry	25.6	276	267	-9	-3.3%		
Recreation	33.4	360	360	0	0.0%		
SUBTOTAL DAY ROOM & RESIDENTIAL AREA		785.7	8,457	8,321	-136	-1.6%	
TRAINING & ADMINISTRATIVE AREA							
Lobby	9.3	100	106	6	6.0%		
Admin and Offices	27.1	292	307	15	5.1%		
Training and Testing	9.3	100	103	3	3.0%		
Logistics	27.8	299	303	4	1.3%		
Reserve	17.8	192	211	19	9.9%		
SUBTOTAL TRAINING & ADMINISTRATIVE AREA		389.9	4,197	4,302	105	2.5%	
EMERGENCY CONTROL CENTER (ECC)							
ECC	53.5	576	587	11	1.9%		
FIRE STATION NET ASSIGNED FLOOR AREA		2,402.4	25,860	25,870	10	0.0%	
INFRASTRUCTURE							
Facility Maint.	12.1	131	94	-37	-28.1%		
Mechanical / Electrical	48.6	523	492	-31	-5.9%		
Telecomm / IT	11.1	120	120	0	0.0%		
Vending	7.4	80	26	-54	-67.5%		
SUBTOTAL INFRASTRUCTURE AREA		149.5	1,610	1,781	171	10.6%	
FIRE STATION NET FUNCTIONAL AREA		2,551.9	27,470	27,651	181	0.7%	
NON-FUNCTION SPACE							
Circulation	360.4	3,879	2,874	-1,005	-25.9%		
Entries	192.2	2,069	2,287	218	10.6%		
Walls	552.6	5,948	5,272	-676	-11.4%		
SUBTOTAL NON-FUNCTION AREA		1,085.2	11,896	8,429	-2,467	-20.7%	
TOTAL FIRE STATION GROSS AREA		3,104.5	33,418	32,923	-494	-1.5%	
FIRE STATION DESIGN EFFICIENCY		77%		79%			

PREDESIGN AREA MATRIX



1 COMPOSITE A - HEADQUARTERS ARFF ENTRY PERSPECTIVE



2 COMPOSITE A - HEADQUARTERS ARFF OVERALL PERSPECTIVE

1

2

3

4

5

COMPOSITE PLAN AND SITE NOTES

- 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 MISSIONS, 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.
- STORM WATER QUALITY/QUANTITY MITIGATION ARE NOT INCLUDED FOR THIS CONCEPTUAL SITE PLAN.
- ALL FUTURE FACILITIES WILL COMPLY WITH CURRENT ATFP REQUIREMENTS, AFF REGULATIONS AND CURRENT UFC.
- PRACTICE, WATER DUMP, AND TRUCK WASH AREAS TO BE DETERMINED ON SITE ON A CASE BY CASE NEEDS.
- AGENT STORAGE LOCATED ON STRUCTURE SIDE ON COMPOSITE A, ALTERNATIVE ON COMPOSITE B SHOWN ON ARFF SIDE.

CONVENTIONAL CONSTRUCTION STANDOFF DISTANCES (CCSD)

- 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 STANDARD (BILLETING 11 OR MORE DoD OCCS ROUTINELY HOUSED)
 - NON-LOAD BEARING WALLS
 - WALL TYPE: REINFORCED MASONRY



NOT FOR CONSTRUCTION

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

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

**FIRE STATION
HEADQUARTERS**



Jacobs Project No.: FDYD3106

Drawing Title:
**COMPOSITE A -
HEADQUARTERS ARFF
SITE**

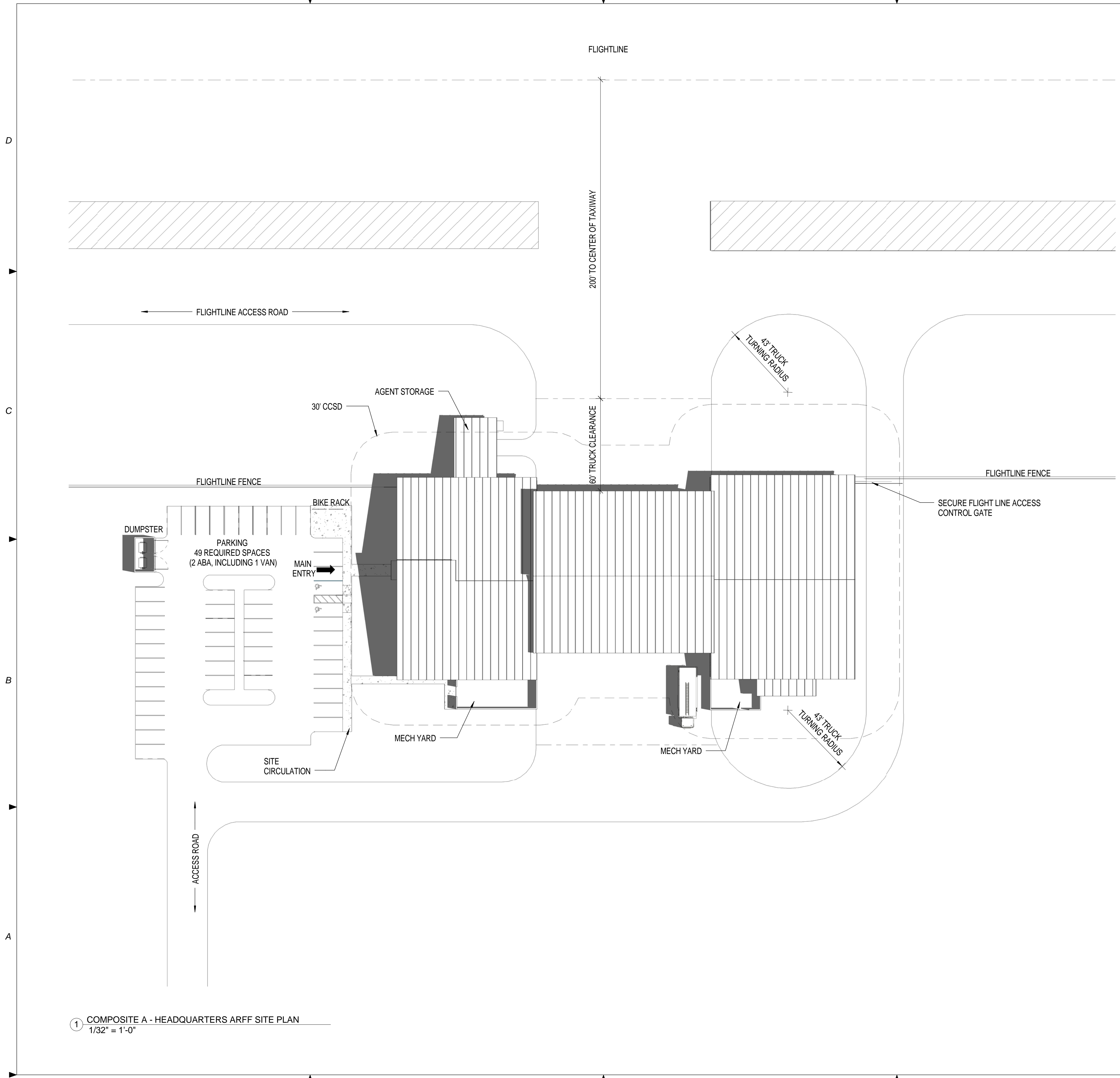
Date: DECEMBER 2013

Designed By: LEG

Drawn By: KLV

Checked By: JW

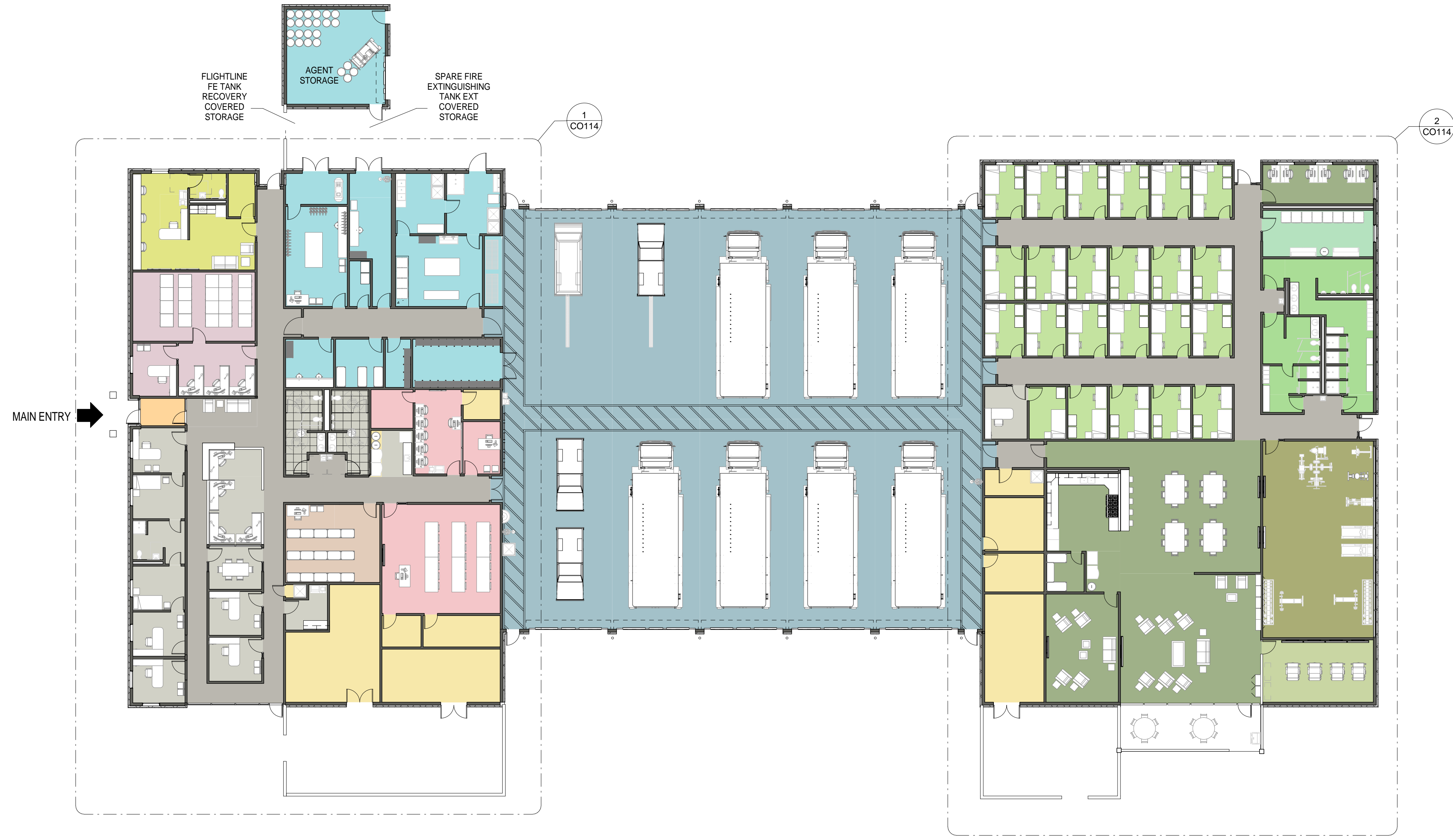
CO112



SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

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① COMPOSITE A - HEADQUARTERS ARFF SITE PLAN
1/32" = 1'-0"



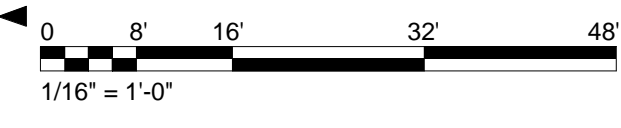
1 COMPOSITE A - HEADQUARTERS ARFF OVERALL FLOOR PLAN
1/16" = 1'-0"

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

GENERAL NOTES

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.

MODULE LEGEND



Jacobs Project No.: FDYD3106
 Drawing Title:
COMPOSITE A - HEADQUARTERS ARFF OVERALL FLOOR PLAN

Date: DECEMBER 2013
 Designed By: LEG
 Drawn By: KIW
 Checked By: JW
CO113

1/2/2014 2:56:24 PM
 SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

NOT FOR CONSTRUCTION

911 Central Parkway N., Suite 425 San Antonio, TX 78223
501 North Broadway, St. Louis, Missouri 63102-2121

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

**FIRE STATION
HEADQUARTERS**



Jacobs Project No.: FDYD3106

Drawing Title:
**COMPOSITE A -
HEADQUARTERS ARFF
ENLARGED FLOOR PLANS**

Date: DECEMBER 2013

Designed By: LEG

Drawn By: KLV

Checked By: JW

CO114

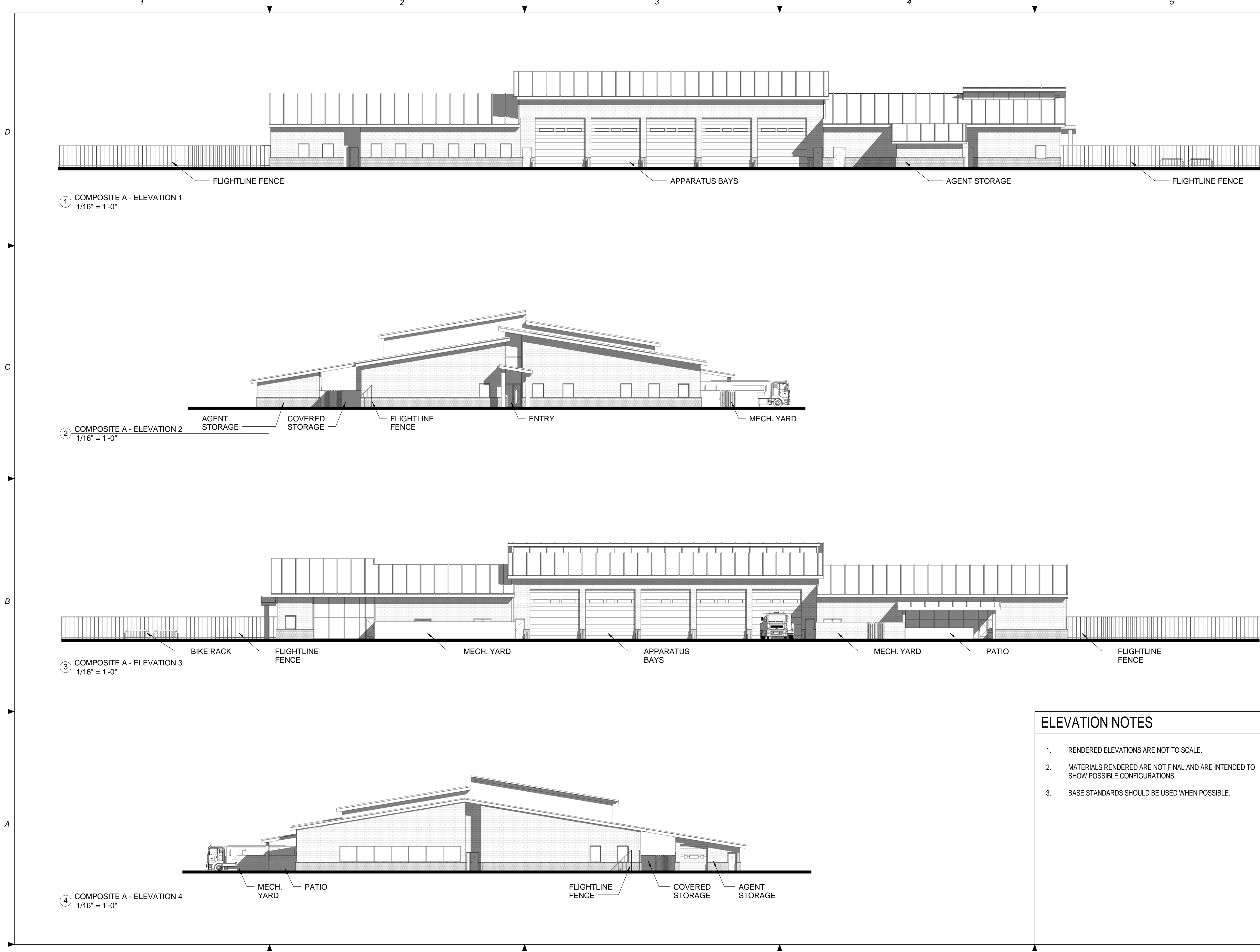


① COMPOSITE A - ENLARGED FLOOR PLAN
1/8" = 1'-0"



② COMPOSITE A - ENLARGED FLOOR PLAN
1/8" = 1'-0"

1/2/2014 4:53:56 PM
SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET



① COMPOSITE A - ELEVATION 1
1/16" = 1'-0"

② COMPOSITE A - ELEVATION 2
1/16" = 1'-0"

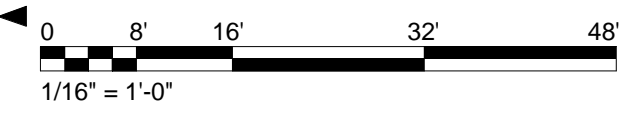
③ COMPOSITE A - ELEVATION 3
1/16" = 1'-0"

④ COMPOSITE A - ELEVATION 4
1/16" = 1'-0"

**AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:
FIRE STATION
HEADQUARTERS**

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.



Jacobs Project No.: FDYD3106

Drawing Title:
**COMPOSITE A -
HEADQUARTERS ARFF
ELEVATIONS**

Date: DECEMBER 2013

Designed By: LEG
Drawn By: KLV
Checked By: JW

CO115

1/2/2014 4:57:51 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

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

**FIRE STATION
HEADQUARTERS**

Jacobs Project No.: FDYD3106

Drawing Title:

**COMPOSITE B -
HEADQUARTERS ARFF
PROGRAM AND
PERSPECTIVES**

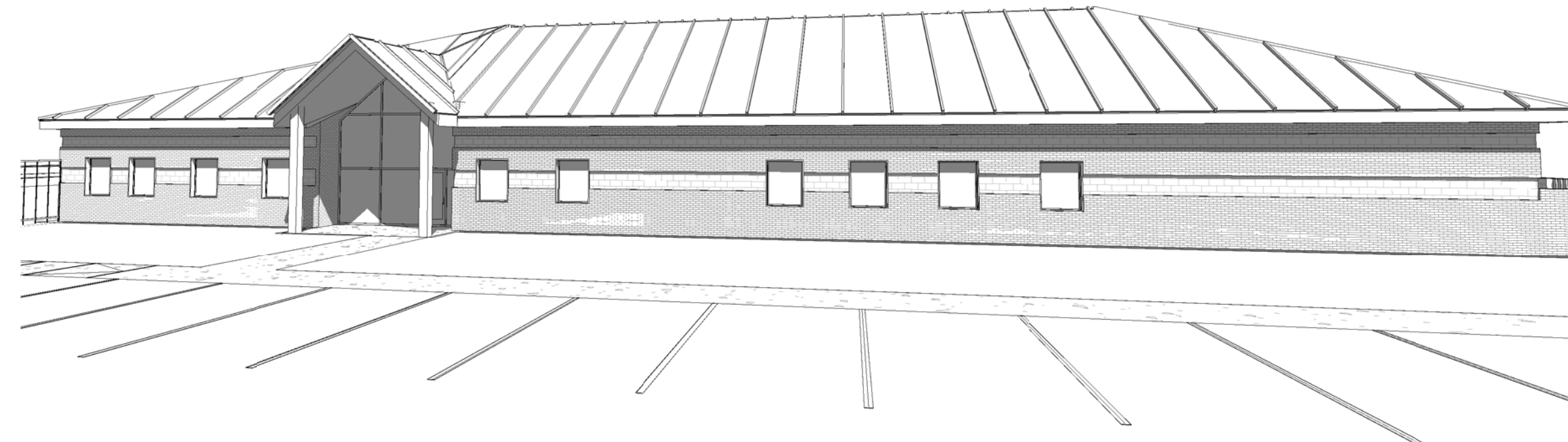
Date: DECEMBER 2013

Designed By: LEG

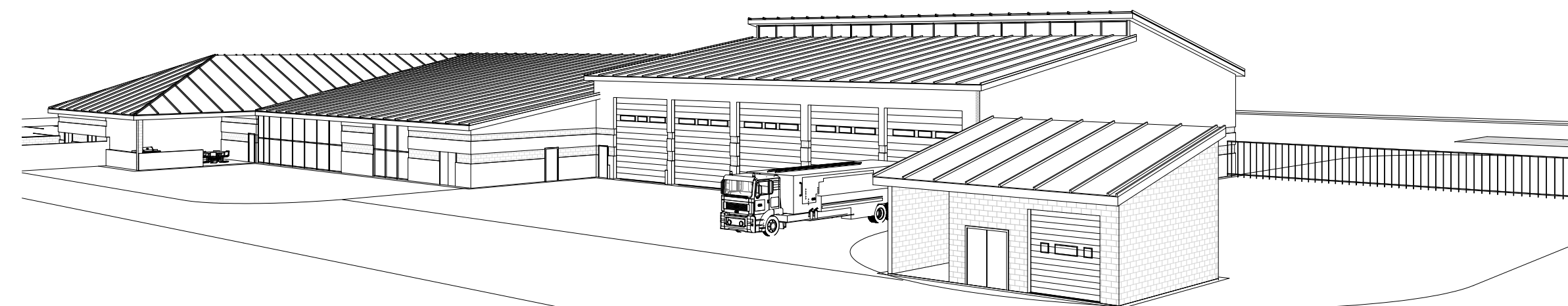
Drawn By: KLW

Checked By: JW

CO116



1 COMPOSITE B - HEADQUARTERS ARFF ENTRY PERSPECTIVE



2 COMPOSITE B - HEADQUARTERS ARFF OVERALL PERSPECTIVE

Prototype Fire Station - HQ/Main ARFF - Composite B 0 Structural, 8 ARFF Companies with 23 Responders		REQUIREMENTS UFC Planning Template (Nov 2011)		AS DESIGNED			COMMENTS
		SM	SF	SF	Delta (SF)	Delta (%)	
MAINTENANCE & APPARATUS AREA							
Apparatus Bays	Apparatus Bay	981.0	10,560	10,219	-341	-3.2%	
	Small Vehicle (two per bay, if needed)	0	0	0	0	0.0%	
	Medium Structural	0	0	0	0	0.0%	
	Large Structural	0	0	0	0	0.0%	
	Medium ARFF	0	0	0	0	0.0%	
Apparatus Support	Large ARFF	0	0	0	0	0.0%	
	EMS Storage - Closet	3.7	40	43	3	7.5%	
	Equipment Wash / Disinfection	13.9	150	160	10	6.7%	
	Fire Extinguisher Inspection	4.5	48	45	-3	-6.3%	
	Flightline Fire Extinguishing Maintenance and Storage	14.9	160	170	10	6.3%	
	Flightline Fire Extinguishing Tank Recovery Ext. Covered Storage	1.9	20	21	1	5.0%	Calculated at half area
	HAZMAT / CBRN Equipment Storage	11.1	120	124	4	3.3%	
	Hose Storage	5.0	54	58	4	7.4%	
	Infectious Control	17.1	184	184	0	0.0%	
	PPE Gear Storage	21.4	230	245	15	6.5%	
	Protective Clothing Laundry	32.1	345	338	-7	-2.0%	
	SCBA Compressor Room	9.3	100	106	6	6.0%	
SCBA Maintenance Room	32.1	345	33	-312	-90.4%		
Spare Flightline Fire Extinguishing Tank Exterior Covered Storage	8.4	90	92	2	2.2%	Calculated at half area	
Spare PPE Gear Storage	5.9	64	60	-4	-6.3%		
Work Room / Equipment Maintenance	11.1	120	120	0	0.0%		
Agent Storage	48.8	525	525	0	0.0%		
SUBTOTAL MAINTENANCE & APPARATUS AREA		1,173.3	12,630	12,675	45	0.4%	
DAY ROOM & RESIDENTIAL AREA							
Day	Day Room	256.4	2,760	2,481	-279	-10.1%	Combination of dining, kitchen, and living
	Hoteling Stations	29.7	320	351	31	9.7%	One workstation for every three Responders
	Patio	16.3	175	258	83	47.1%	Calculated at half area
	Physical Therapy / Sauna	0.0	0	220	220	0.0%	
Dorm Rooms	Dorm Rooms	230.8	2,484	2,476	-8	-0.3%	
	Bathrooms / Showers / Changing - Female Responders	21.7	234	263	29	12.4%	
Restrooms	Lavatories	2	2	2	0	0.0%	
	Water Closets	2	2	2	0	0.0%	
	Showers	2	2	2	0	0.0%	
	Lockers	7	7	7	0	0.0%	
	Bathrooms / Showers / Changing - Male Responders	43.5	468	479	11	2.4%	
	Lavatories	3	3	3	0	0.0%	
	Water Closets / Urinals	4	4	4	0	0.0%	(2) Water Closet(s), (2) Urinal(s)
	Showers	4	4	4	0	0.0%	
	Lockers	19	19	19	0	0.0%	
	Laundry Room	25.6	276	261	-15	-5.4%	
Laundry	Fitness Room	128.2	1,380	1,256	-124	-9.0%	
	Recreation	33.4	360	330	-30	-8.3%	
	SUBTOTAL DAY ROOM & RESIDENTIAL AREA		785.7	8,457	8,375	-83	-1.0%
TRAINING & ADMINISTRATIVE AREA							
Lobby	Lobby Area	9.3	100	98	-2	-2.0%	
	Main Entry Vestibule	5.9	64	60	-4	-6.3%	
Admin and Offices	Admin & Training Restrooms	27.1	292	303	11	3.8%	
	Female Lavatories	1	1	1	0	0.0%	(1) ABA Water Closet
	Female Water Closets	2	2	2	0	0.0%	
	Male Lavatories	2	2	2	0	0.0%	
	Male Water Closets / Urinals	3	3	3	0	0.0%	(1) ABA Water Closet, (1) Water Closet(s), (1) Urinal(s)
	Administration & Training Break Room	9.3	100	67	-33	-33.0%	
	Administration Assistant	5.9	64	64	0	0.0%	
	Assistant Chief / Shift Supervisor	11.1	120	120	0	0.0%	Asst. Chief of Operations
	Assistant Chief of Fire Prevention	11.1	120	121	1	0.8%	
	Assistant Chief of Operations / Shift Supervisor's Dorm Room	9.3	100	125	25	25.0%	
	Chief's / Supervisor's Bathroom	9.3	100	113	13	13.0%	(1) Lavatory, (1) Shower, (1) Water Closet
	Chief's Conference Room	11.1	120	123	3	2.5%	
	Deputy Chief's Office	11.1	120	121	1	0.8%	
	EMS Workstation	5.9	64	68	4	6.3%	
	Fire Chief's Dorm Room	9.3	100	125	25	25.0%	
	Fire Chief's Office	11.1	120	118	-2	-1.7%	
	General Administration Storage	7.4	80	85	5	6.3%	
	HAZMAT / Safety Office	11.1	120	120	0	0.0%	
Inspector's Office(s) / Workstation(s)	11.9	128	131	3	2.3%		
Station Chief Office / Watch Desk	11.1	120	116	-4	-3.3%	Station Chief / Station Capt.	
Training and Testing	Computer Training / Testing Room	19.5	210	217	7	3.3%	
	Training Officer Office	9.3	100	103	3	3.0%	Asst. Chief of Training
	Training Room	59.8	644	642	-2	-0.3%	
Logistics	Training Room Storage	7.4	80	80	0	0.0%	
	Logistics Office	7.4	80	87	7	8.8%	
Reserve	Logistics Storage	27.8	299	372	73	24.4%	
	Air Force Reserve and Active Duty Mobility / Deployment Gear Stor.	18.6	200	200	0	0.0%	10 SF / Reservist
	Air Force Reserve Firefighter PPE Gear	22.3	240	235	-5	-2.1%	
	Air Force Reserve Supervisor	11.1	120	117	-3	-2.5%	
SUBTOTAL TRAINING & ADMINISTRATIVE AREA		389.9	4,197	4,323	126	3.0%	
EMERGENCY CONTROL CENTER (ECC)							
ECC	ECC Dispatcher	35.7	384	395	11	2.9%	
	ECC IT Room	5.6	60	59	-1	-1.7%	
	ECC Kitchenette	1.9	20	20	0	0.0%	
	ECC Restroom	4.5	48	46	-2	-4.2%	
	ECC Supervisor	5.9	64	64	0	0.0%	
SUBTOTAL E.C.C. AREA		53.5	576	584	8	1.4%	
FIRE STATION NET ASSIGNED FLOOR AREA		2,402.4	25,860	25,957	97	0.4%	
INFRASTRUCTURE							
Facility Maint.	Custodial	12.1	131	30	-101	-77.1%	1/2% of Net Assigned Area
	Electrical Rooms	48.6	523	413	-110	-21.0%	2% of Net Assigned Area
	Mechanical / Electrical	24.5	264	351	87	33.0%	Based upon Conditioned Area
	Base IT / Comms Room(s)	11.1	120	121	1	0.8%	
	IT / Comms	5.6	60	61	1	1.7%	
	Vending	7.4	80	77	-3	-3.8%	Based on number of Structural and/or ARFF Cos.
	Vending / Recycling	7.4	80	77	-3	-3.8%	
SUBTOTAL INFRASTRUCTURE AREA		149.5	1,610	1,053	-557	-34.6%	
FIRE STATION NET FUNCTIONAL AREA		2,551.9	27,470	27,010	-460	-1.7%	
NON-FUNCTION SPACE							
Circulation	Corridors, Halls, and other Interior Circulation	360.4	3,879	2,826	-1,053	-27.1%	15% of Net Assigned Area
	Entries	192.2	2,069	110	-110	0.0%	Calculated at half area
	Walls	192.2	2,069	1,658	-511	-24.7%	6% of Net Assigned Area
SUBTOTAL NON-FUNCTION AREA		552.6	5,948	4,494	-1,454	-24.4%	
TOTAL FIRE STATION GROSS AREA		3,104.5	33,418	31,503	-1,914	-5.7%	
FIRE STATION DESIGN EFFICIENCY		77%	82%				

PREDESIGN AREA MATRIX

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 MISSIONS, 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, AFF 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 B 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 STANDARD (BILLETING 11OR MORE DoD OCCS ROUTINELY HOUSED)
 - NON-LOAD BEARING WALLS
 - WALL TYPE: REINFORCED MASONRY

**AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:
FIRE STATION
HEADQUARTERS**



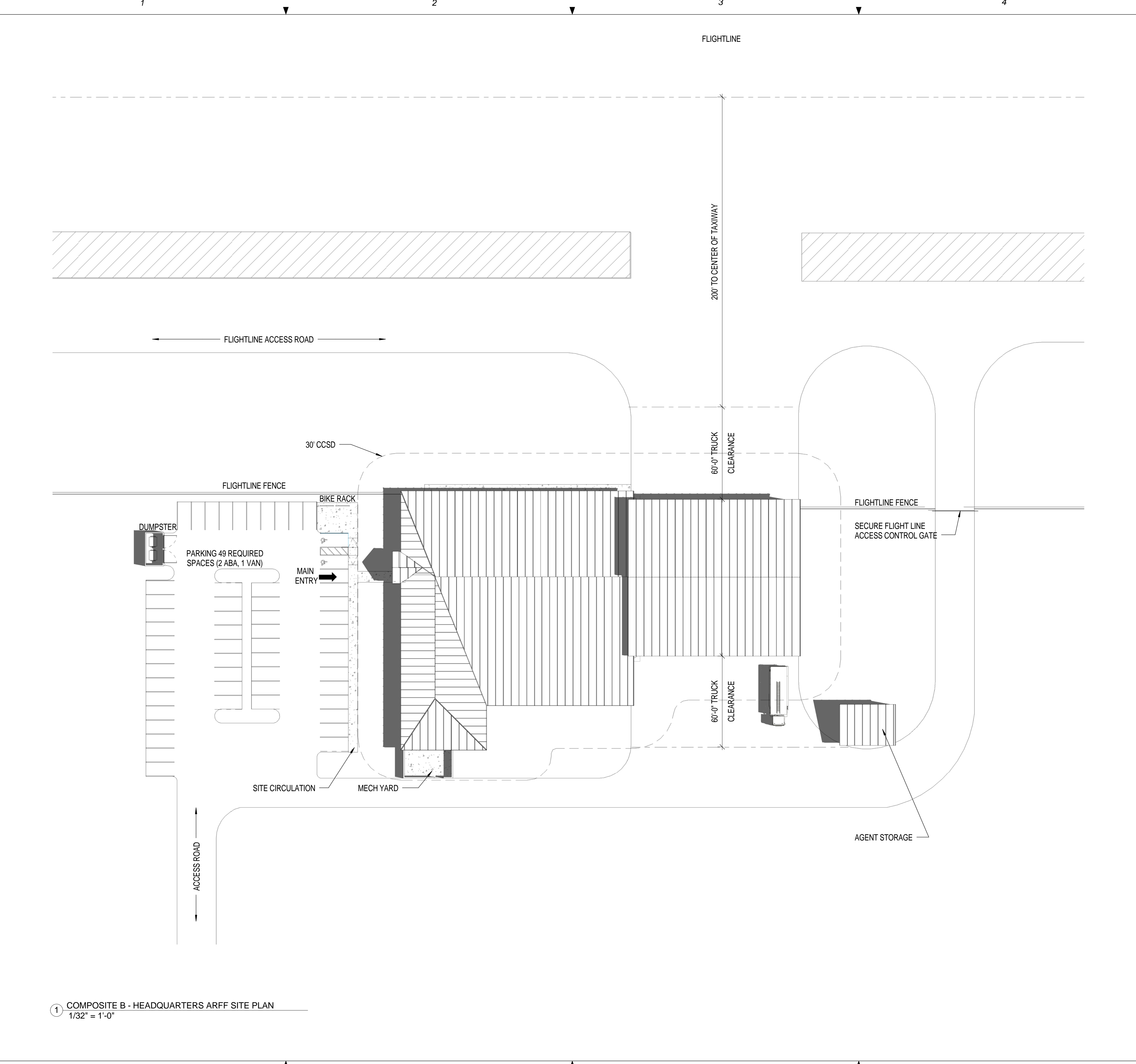
Jacobs Project No.: FDYD3106

Drawing Title:
COMPOSITE B - HEADQUARTERS ARFF SITE

Date: DECEMBER 2013

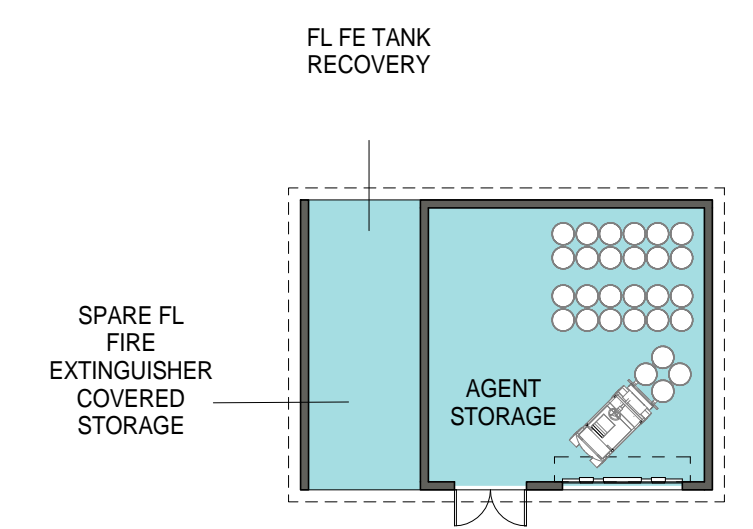
Designed By: LEG
Drawn By: KIW
Checked By: JW

CO117



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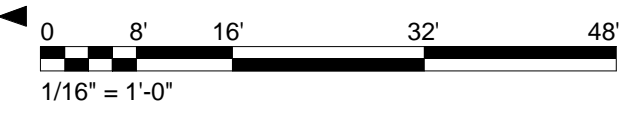
① COMPOSITE B - HEADQUARTERS ARFF SITE PLAN
1/32" = 1'-0"



1 COMPOSITE B - HEADQUARTERS ARFF OVERALL FLOOR PLAN
1/16" = 1'-0"

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

**FIRE STATION
HEADQUARTERS**



GENERAL NOTES

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3. BUILDINGS ARE NOTIONAL AND SHOULD BE MODIFIED BASED ON THE SITE AND REQUIREMENTS OF THE SPECIFIC FACILITY.

MODULE LEGEND



Jacobs Project No.: FDYD3106

Drawing Title:

COMPOSITE B - HEADQUARTERS ARFF OVERALL FLOOR PLAN

Date: DECEMBER 2013

Designed By: LEG

Drawn By: KLV

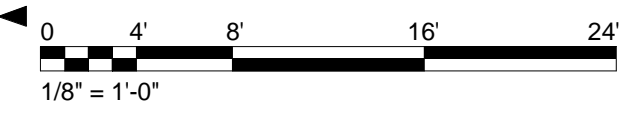
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CO118

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**AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:
FIRE STATION
HEADQUARTERS**



Jacobs Project No.: FDYD3106

Drawing Title:
**COMPOSITE B -
HEADQUARTERS ARFF
ENLARGED FLOOR PLAN**

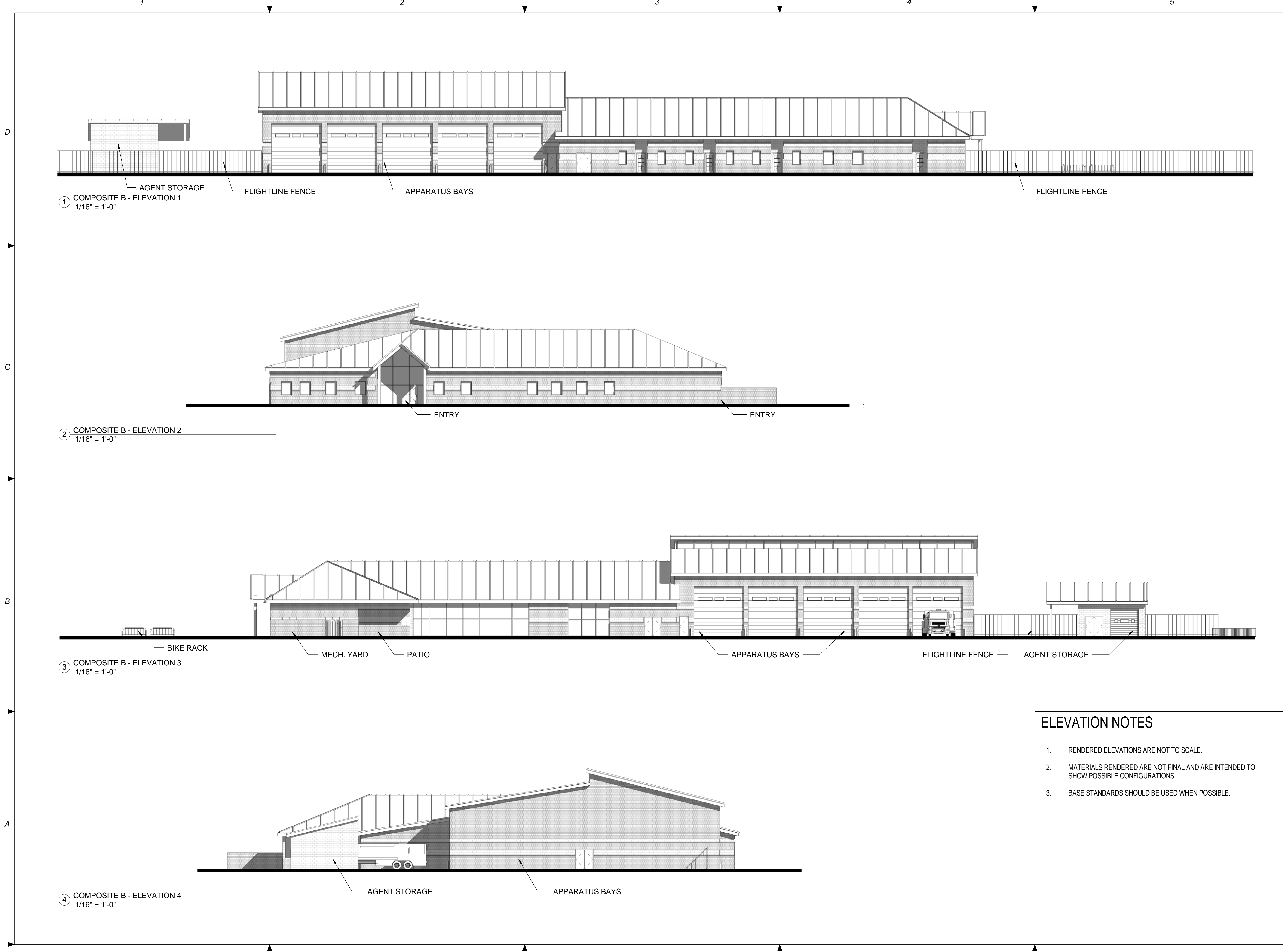
Date: DECEMBER 2013

Designed By: LEG
Drawn By: KLV
Checked By: JW

CO119

① COMPOSITE B - ENLARGED FLOOR PLAN
1/8" = 1'-0"

1/2/2014 3:36:29 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET



① COMPOSITE B - ELEVATION 1
1/16" = 1'-0"

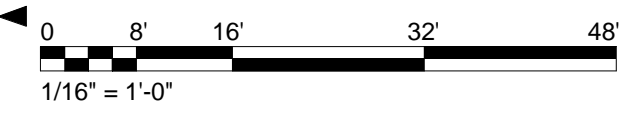
② COMPOSITE B - ELEVATION 2
1/16" = 1'-0"

③ COMPOSITE B - ELEVATION 3
1/16" = 1'-0"

④ COMPOSITE B - ELEVATION 4
1/16" = 1'-0"

**AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:
FIRE STATION
HEADQUARTERS**

- 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.



Jacobs Project No.: FDYD3106
 Drawing Title:
COMPOSITE B - HEADQUARTERS ARFF ELEVATIONS
 Date: DECEMBER 2013
 Designed By: LEG
 Drawn By: KLW
 Checked By: JW
CO120

1/2/2014 5:07:25 PM
 SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

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

FIRE STATION
HEADQUARTERS

Jacobs Project No.: FDYD3106

Drawing Title:

COMPOSITE A -
HEADQUARTERS
STRUCTURAL PROGRAM
AND PERSPECTIVES

Date: DECEMBER 2013

Designed By: LEG

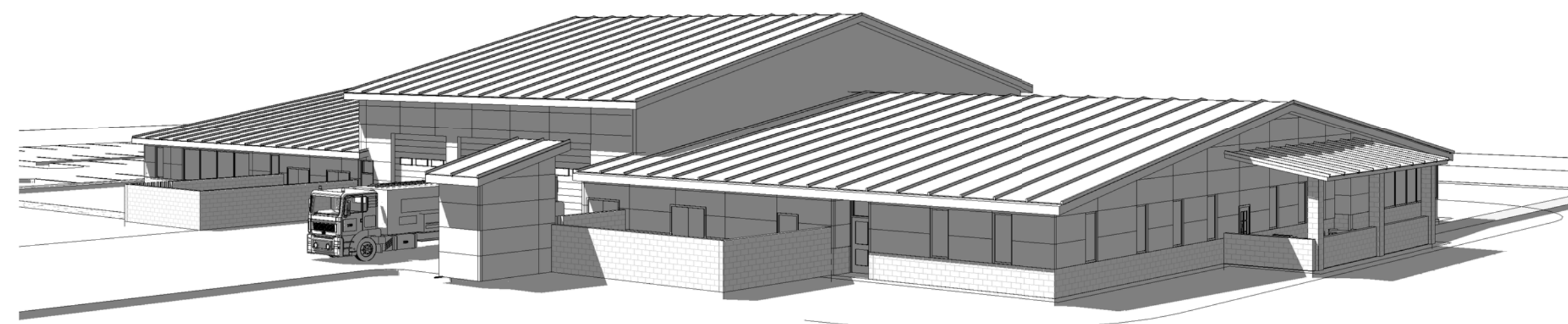
Drawn By: KLW

Checked By: JW

Drawing No.:
CO121



COMPOSITE A - HEADQUARTERS STRUCTURAL ENTRY
PERSPECTIVE



COMPOSITE A - HEADQUARTERS STRUCTURAL OVERALL
PERSPECTIVE

Prototype Fire Station - HQ/Main Structural - Composite A 3 Structural, 0 ARFF Companies with 12 Responders		REQUIREMENTS UFC Planning Template (Nov 2011)		AS DESIGNED		COMMENTS
		SM (Itemized)	SF	SF	Delta (SF)	
MAINTENANCE & APPARATUS AREA						
Apparatus Bays	Apparatus Bay	521.7	5,616	6,415	799	14.2%
	Small Vehicle (two per bay, if needed)	2				
	Medium Structural	4				
	Large Structural	0				
	Medium ARFF	0				
Apparatus Support	EMS Storage - Closet	3.7	40	40	0	0.0%
	Equipment Wash / Disinfection	13.9	150	155	5	3.3%
	Fire Extinguisher Inspection	4.5	48	48	0	0.0%
	HAZMAT / CBRN Equipment Storage	11.1	120	124	4	3.3%
	Hose Storage	5.0	30	-24	-44.4%	
	Infectious Control	14.9	160	162	2	1.3%
	Non-Flightline Fire Extinguishing Maintenance and Storage	11.1	120	120	0	0.0%
	PPE Gear Storage	11.1	120	125	5	4.2%
	Protective Clothing Laundry	16.7	180	183	3	1.7%
	SCBA Compressor Room	9.3	100	96	-4	-4.0%
	SCBA Maintenance Room	16.7	180	178	-2	-1.1%
Agent Storage	Spare PPE Gear Storage	5.9	64	77	13	20.3%
	Work Room / Equipment Maintenance	11.1	120.0	120	0	0.0%
	Agent Storage (Structural)	4.5	48.0	68	20	0
SUBTOTAL MAINTENANCE & APPARATUS AREA		657.0	7,072	7,873	801	11.3%
DAY ROOM & RESIDENTIAL AREA						
Day	Day Room	133.8	1,440	1,542	102	7.1%
	Hoteling Stations	14.9	160	176	16	10.0%
	Patio	11.6	125	197	72	57.2%
Dorm Rooms	Dorm Rooms	120.4	1,296	1,296	0	0.0%
	Bathrooms / Showers / Changing - Female Responders	19.9	214	238	24	11.2%
Restrooms	Lavatories	2				
	Water Closets	2				
	Showers	2				
	Lockers	4				
	Bathrooms / Showers / Changing - Male Responders	35.0	377	350	-27	-7.2%
	Lavatories	3				
	Water Closets / Urinals	4				
Laundry	Showers	3				
	Lockers	10				
Fitness	Laundry Room	13.4	144	156	12	8.3%
	Fitness Room	66.9	720	712	-8	-1.1%
Recreation	Recreation Room	33.4	360	343	-17	-4.7%
	SUBTOTAL DAY ROOM & RESIDENTIAL AREA		449.3	4,836	5,010	174
TRAINING & ADMINISTRATIVE AREA						
Lobby	Lobby Area	9.3	100	100	0	0.0%
	Main Entry Vestibule	5.9	64	68	4	6.3%
	Admin & Training Restrooms	27.1	292	351	59	20.2%
Admin and Offices	Female Lavatories	1				
	Female Water Closets	2				
	Male Lavatories	2				
	Male Water Closets / Urinals	3				
	Administration & Training Break Room	9.3	100	105	5	5.0%
	Administration Assistant	5.9	64	75	11	17.2%
	Assistant Chief / Shift Supervisor	11.1	120	120	0	0.0%
	Assistant Chief of Fire Prevention	11.1	120	120	0	0.0%
	Assistant Chief of Operations / Shift Supervisor's Dorm Room	9.3	100	122	22	22.0%
	Chief's / Supervisor's Bathroom	9.3	100	110	10	10.0%
	Chief's Conference Room	11.1	120	120	0	0.0%
	Deputy Chief's Office	11.1	120	120	0	0.0%
	Fire Chief's Dorm Room	9.3	100	122	22	22.0%
	Fire Chief's Office	11.1	120	119	-1	-0.8%
Training and Testing	General Administration Storage	7.4	80	81	1	1.3%
	HAZMAT / Safety Office	11.1	120	120	0	0.0%
	Inspector's Office(s) / Workstation(s)	11.9	128	124	-4	-3.1%
	Station Chief Office / Watch Desk	11.1	120	120	0	0.0%
	Computer Training / Testing Room	19.5	210	216	6	2.9%
Logistics	Training Officer Office	9.3	100	103	3	3.0%
	Training Room	31.2	336	371	35	10.4%
	Training Room Storage	7.4	80	167	87	108.8%
Reserve	Logistics Office	7.4	80	116	36	45.0%
	Logistics Storage	14.5	156	161	5	3.2%
EMERGENCY CONTROL CENTER (ECC)	Air Force Reserve and Active Duty Mobility / Deployment Gear Stor.	16.6	200	200	0	0.0%
	Air Force Reserve Firefighter PPE Gear	22.3	240	239	-1	-0.4%
	Air Force Reserve Supervisor	11.1	120	117	-3	-2.5%
	Air Force Reserve Workstations	17.8	192	208	16	8.3%
SUBTOTAL TRAINING & ADMINISTRATIVE AREA		342.1	3,682	3,995	313	8.5%
EMERGENCY CONTROL CENTER (ECC)						
ECC	ECC Dispatcher	17.8	192	196	4	2.1%
	ECC IT Room	5.6	60	60	0	0.0%
	ECC Kitchenette	1.9	20	20	0	0.0%
	ECC Restroom	4.5	48	49	1	2.1%
SUBTOTAL E.C.C. AREA		29.7	320	324	4	1.3%
FIRE STATION NET ASSIGNED FLOOR AREA		1,478.0	15,910	17,201	1,291	8.1%
INFRASTRUCTURE						
Facility Maint.	Custodial	7.4	80	48	-32	-40.1%
	Electrical Rooms	29.8	321	248	-73	-22.7%
Mechanical / Electrical	Mechanical Room - Admin Area	24.5	264	422	158	59.8%
	Mechanical Room - Responders Area	35.7	384	245	-139	-36.2%
Telecomm / IT	Base IT / Comms Room (s)	11.1	120	120	0	0.0%
	IT / Comms	5.6	60	57	-3	-5.0%
Vending	Vending / Recycling	5.6	60	53	-7	-11.7%
	SUBTOTAL INFRASTRUCTURE AREA		119.8	1,289	1,193	-96
FIRE STATION NET FUNCTIONAL AREA		1,597.8	17,199	18,394	1,195	6.9%
NON-FUNCTION SPACE						
Circulation	Corridors, Halls, and other Interior Circulation	221.7	2,387	2,633	247	10.3%
	Entries			98	98	0.0%
	Walls	118.2	1,273	2,676	1,403	110.2%
SUBTOTAL NON-FUNCTION AREA		339.9	3,660	5,407	1,748	47.8%
TOTAL FIRE STATION GROSS AREA		1,937.8	20,858	23,801	2,943	14.1%
FIRE STATION DESIGN EFFICIENCY			76%		72%	

PREDESIGN AREA MATRIX

SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

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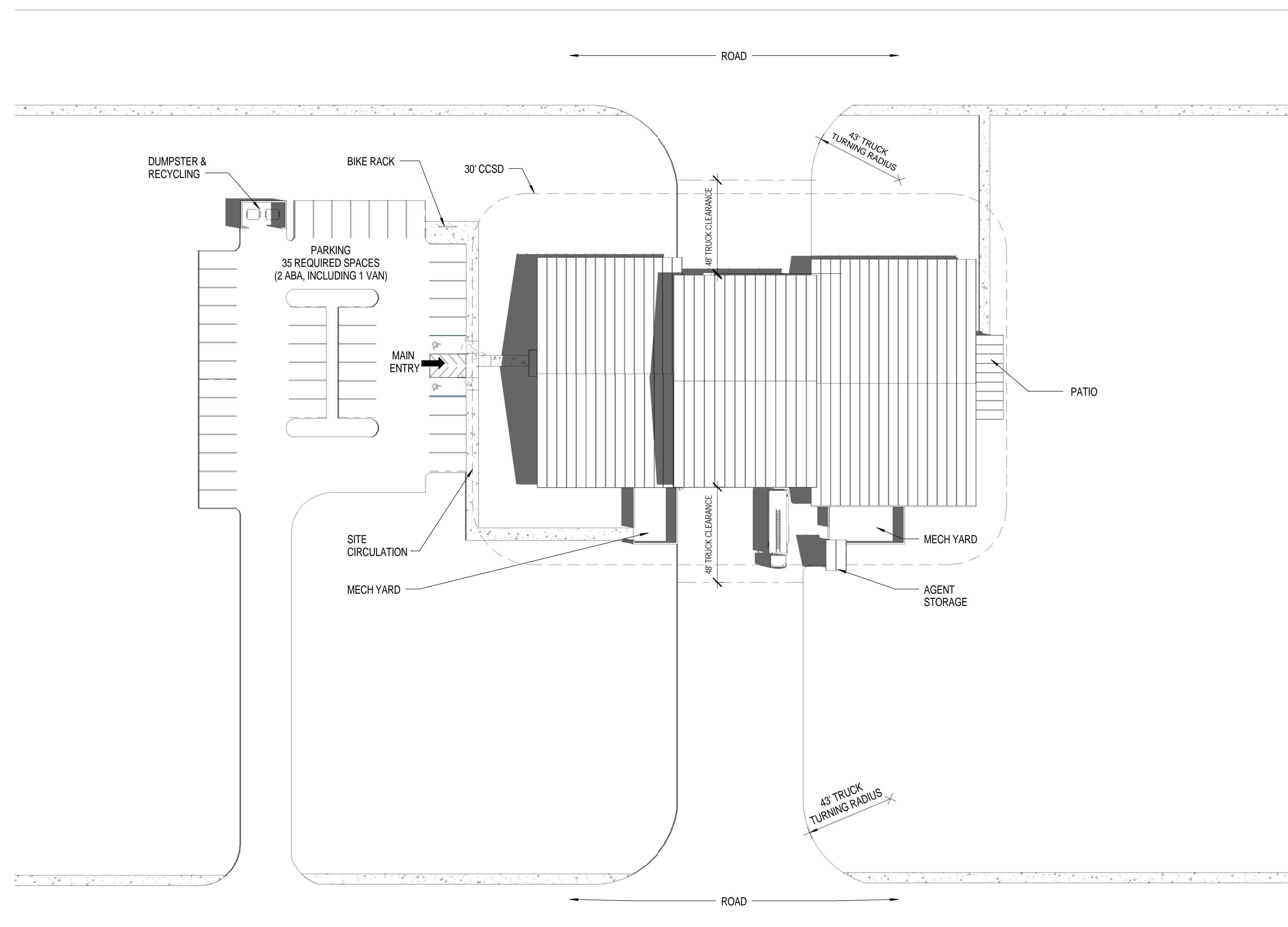
COMPOSITE PLAN AND SITE NOTES

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 MISSIONS, 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, AFF 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 B 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 STANDARD (BILLETING 11 OR MORE DoD OCCS ROUTINELY HOUSED)
 - NON-LOAD BEARING WALLS
 - WALL TYPE: REINFORCED MASONRY

D
C
B
A



**AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:
FIRE STATION
HEADQUARTERS**



Jacobs Project No.: FDYD3106

Drawing Title:
**COMPOSITE A -
HEADQUARTERS
STRUCTURAL SITE**

Date: DECEMBER 2013

Designed By: LEG

Drawn By: KIW

Checked By: JW

CO122

① COMPOSITE A - HEADQUARTERS STRUCTURAL SITE PLAN
1/32" = 1'-0"

1/2/2014 12:12:39 PM
SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET



① COMPOSITE A - HEADQUARTERS STRUCTURAL
OVERALL FLOOR PLAN
1/16" = 1'-0"

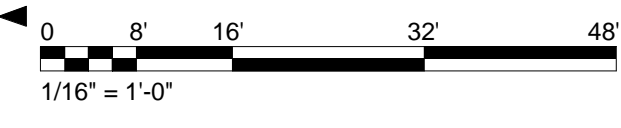
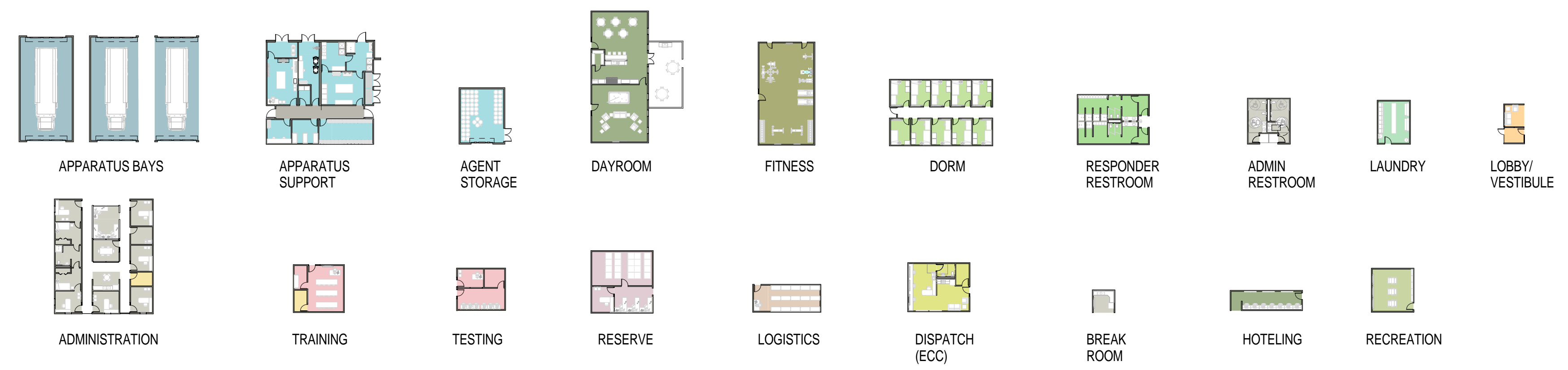
AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:
**FIRE STATION
HEADQUARTERS**

SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET
1/2/2014 3:12:26 PM

GENERAL NOTES

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.

MODULE LEGEND



Jacobs Project No.: FDYD3106

Drawing Title:

**COMPOSITE A -
HEADQUARTERS
STRUCTURAL OVERALL
FLOOR PLAN**

Date: DECEMBER 2013

Designed By: LEG

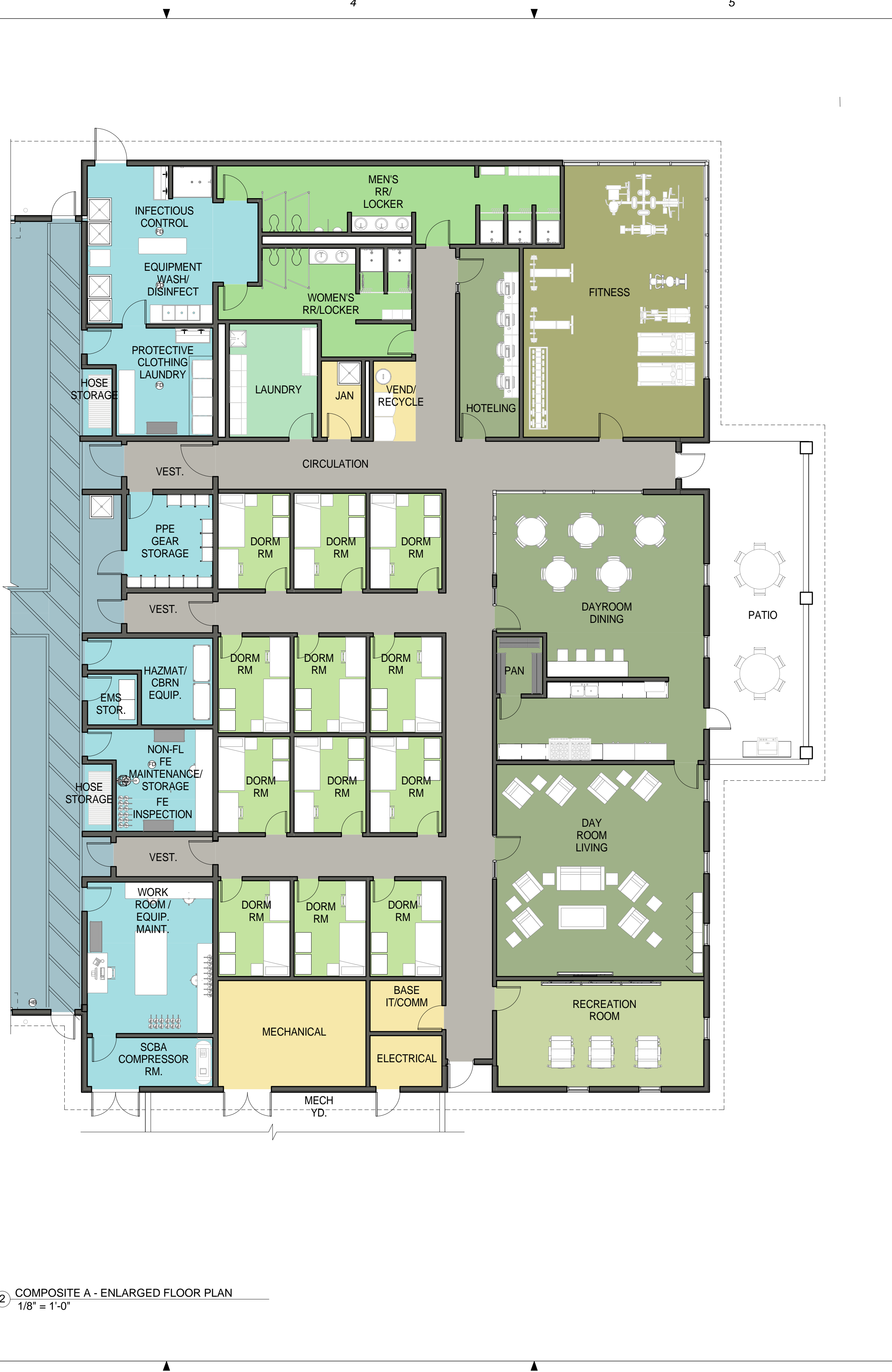
Drawn By: KLV

Checked By: JW

CO123



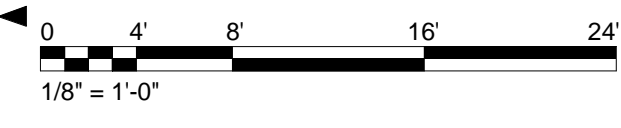
1 COMPOSITE A - ENLARGED FLOOR PLAN
1/8" = 1'-0"



2 COMPOSITE A - ENLARGED FLOOR PLAN
1/8" = 1'-0"

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

**FIRE STATION
HEADQUARTERS**



Jacobs Project No.: FDYD3106

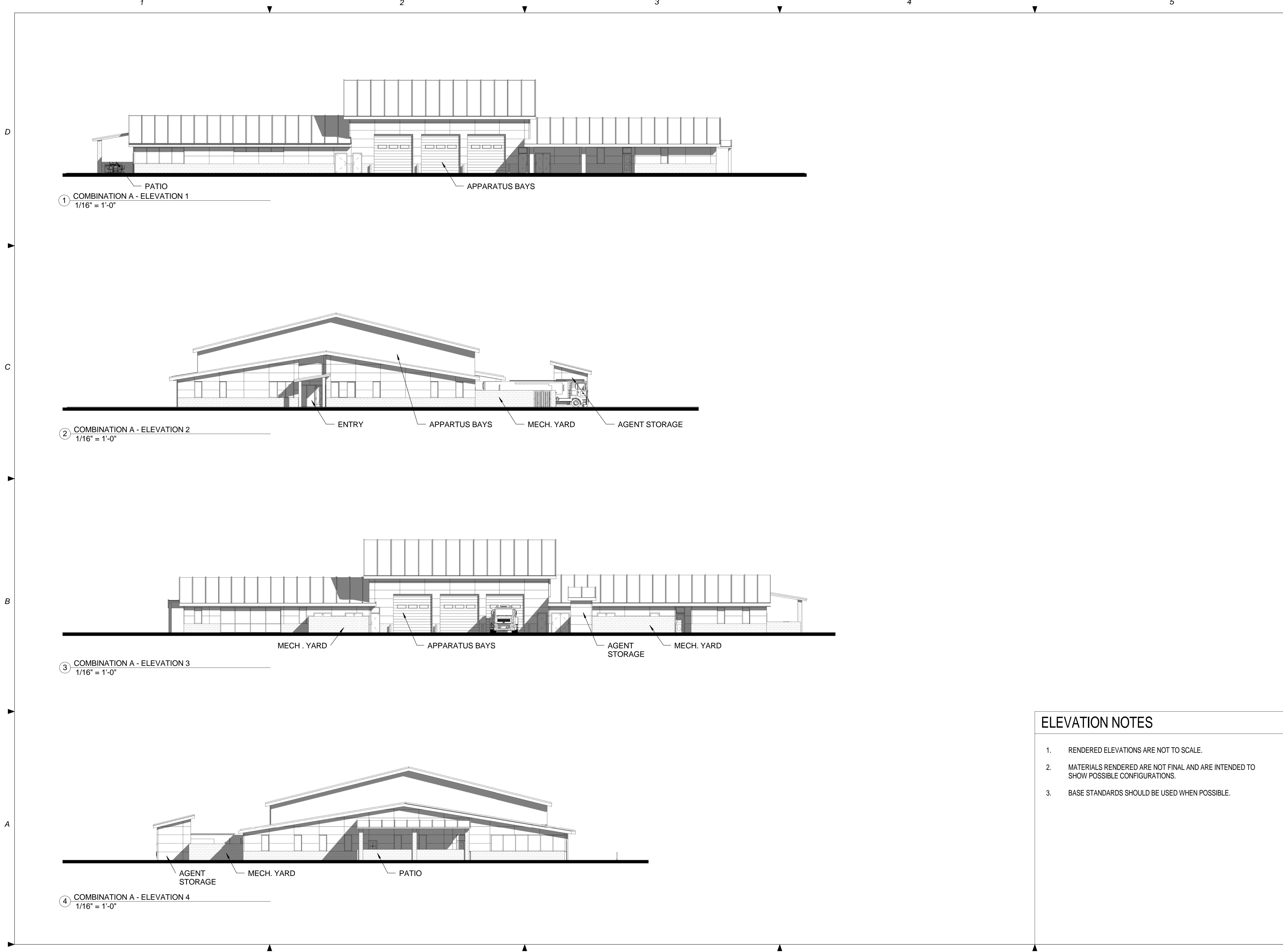
Drawing Title:
**COMPOSITE A -
HEADQUARTERS
STRUCTURAL ENLARGED
FLOOR PLANS**

Date: DECEMBER 2013

Designed By: LEG
Drawn By: KLV
Checked By: JW

Drawing No.:
CO124

1/2/2014 3:10:00 PM
SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET



① COMBINATION A - ELEVATION 1
1/16" = 1'-0"

② COMBINATION A - ELEVATION 2
1/16" = 1'-0"

③ COMBINATION A - ELEVATION 3
1/16" = 1'-0"

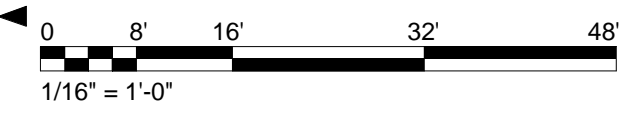
④ COMBINATION A - ELEVATION 4
1/16" = 1'-0"

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

**FIRE STATION
HEADQUARTERS**

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.



Jacobs Project No.: FDYD3106

Drawing Title:

**COMPOSITE A -
HEADQUARTERS
STRUCTURAL ELEVATIONS**

Date: DECEMBER 2013

Designed By: LEG

Drawn By: KLV

Checked By: JW

Drawing No.:
CO125

1/3/2014 9:40:40 AM
SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

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

**FIRE STATION
HEADQUARTERS**

Jacobs Project No.: FDYD3106

Drawing Title:

**COMPOSITE B -
HEADQUARTERS
STRUCTURAL PROGRAM
AND PERSPECTIVES**

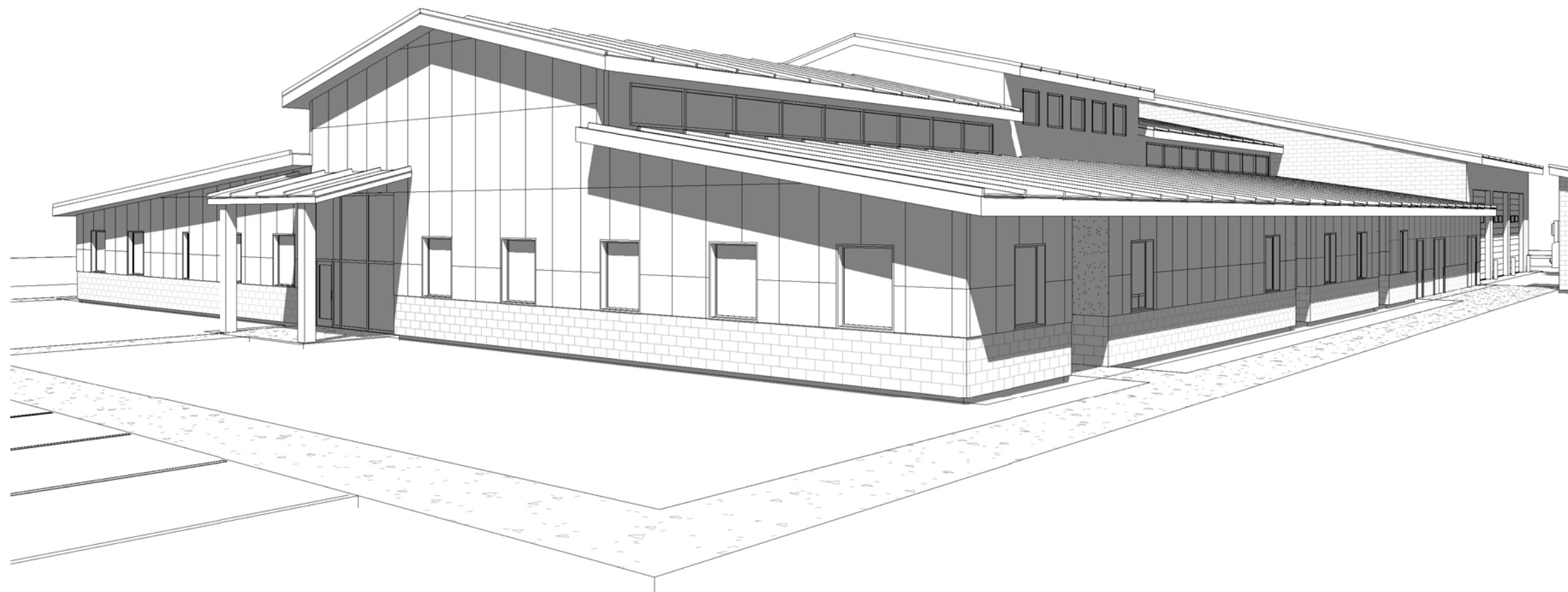
Date: DECEMBER 2013

Designed By: LEG

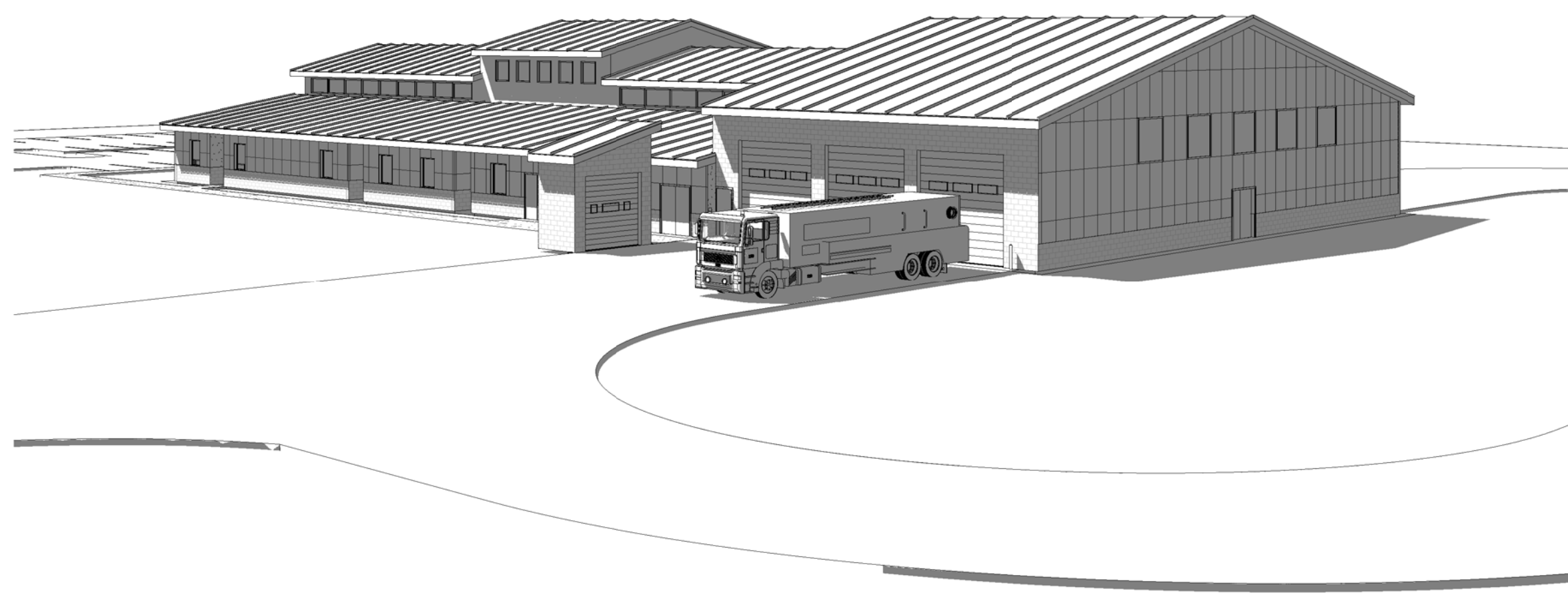
Drawn By: KLV

Checked By: JW

CO126



① COMPOSITE B - HEADQUARTERS STRUCTURAL ENTRY PERSPECTIVE.



② COMPOSITE B - HEADQUARTERS STRUCTURAL OVERALL PERSPECTIVE

Prototype Fire Station - HQ/Main Structural - Composite B 3 Structural, 0 ARFF Companies with 12 Responders		REQUIREMENTS (UFC Planning Template (Nov 2011))		AS DESIGNED		COMMENTS	
		SM	SF	SF	Delta (SF)		Delta (%)
MAINTENANCE & APPARATUS AREA							
Apparatus Bays	Apparatus Bay	521.7	5,616	5,503	-113	-2.0%	
	Small Vehicle (two per bay, if needed)	2					
	Medium Structural	4					
	Large Structural	0					
	Medium ARFF	0					
Apparatus Support	EMS Storage - Closet	3.7	40	40	0	0.0%	
	Equipment Wash / Disinfection	13.9	150	145	-5	-3.3%	
	Fire Extinguisher Inspection	4.5	48	48	0	0.0%	
	HAZMAT / CBRN Equipment Storage	11.1	120	120	0	0.0%	
	Hose Storage	5.0	54	54	0	0.0%	
	Infectious Control	14.9	160	158	-2	-1.3%	
	Non-Flightline Fire Extinguishing Maintenance and Storage	11.1	120	120	0	0.0%	
	PPE Gear Storage	11.1	120	120	0	0.0%	
	Protective Clothing Laundry	16.7	180	184	4	2.2%	
	SCBA Compressor Room	9.3	100	97	-3	-3.0%	
Agent Storage	SCBA Maintenance Room	16.7	180	173	-7	-3.9%	
	Spare PPE Gear Storage	5.9	64	65	1	1.6%	
	Work Room / Equipment Maintenance	11.1	120	120	0	0.0%	
Agent Storage (Structural)	4.5	48.0	78	30	1		
SUBTOTAL MAINTENANCE & APPARATUS AREA		657.0	7,072	6,947	-125	-1.8%	
DAY ROOM & RESIDENTIAL AREA							
Day	Day Room	133.8	1,440	1,560	120	8.3%	Combination of dining, kitchen, and living One workstation for every three Responders Calculated at half area
	Hoteling Stations	14.9	160	173	13	8.1%	
	Patio	23.2	250	177	-74	-29.4%	
Dorm Rooms	Dorm Rooms	120.4	1,296	1,296	0	0.0%	
	Bathrooms / Showers / Changing - Female Responders	19.9	214	207	-7	-3.3%	
Restrooms	Lavatories	2					
	Water Closets	2					
	Showers	2					
	Lockers	4					
	Bathrooms / Showers / Changing - Male Responders	35.0	377	347	-30	-8.0%	
	Lavatories	3					(2) Water Closet(s), (2) Urinal(s)
Laundry	Laundry Room	13.4	144	144	0	0.0%	
	Fitness Room	66.9	720	798	78	10.8%	
Recreation	Recreation Room	33.4	360	365	5	1.4%	
SUBTOTAL DAY ROOM & RESIDENTIAL AREA		460.9	4,961	5,067	106	2.1%	
TRAINING & ADMINISTRATIVE AREA							
Lobby	Lobby Area	9.3	100	101	1	1.0%	
	Main Entry Vestibule	5.9	64	66	2	3.1%	
Admin and Offices	Admin & Training Restrooms	27.1	292	334	42	14.4%	
	Female Lavatories	1					
	Female Water Closets	2					
	Male Lavatories	2					
	Male Water Closets / Urinals	3					(1) ABA Water Closet, (1) Water Closet(s), (1) Urinal(s)
	Administration & Training Break Room	9.3	100	98	-2	-2.0%	
	Administration Assistant	5.9	64	65	1	1.6%	
	Assistant Chief / Shift Supervisor	11.1	120	122	2	1.7%	Asst. Chief of Operations
	Assistant Chief of Fire Prevention	11.1	120	120	0	0.0%	
	Assistant Chief of Operations / Shift Supervisor's Dorm Room	9.3	100	120	20	20.0%	
Training and Testing	Chief's / Supervisor's Bathroom	9.3	100	108	8	8.0%	(1) Lavatory, (1) Shower, (1) Water Closet
	Chief's Conference Room	11.1	120	117	-3	-2.5%	
	Deputy Chief's Office	11.1	120	120	0	0.0%	
	Fire Chief's Dorm Room	9.3	100	120	20	20.0%	
	Fire Chief's Office	11.1	120	120	0	0.0%	
	General Administration Storage	7.4	80	90	10	12.5%	
Logistics	HAZMAT / Safety Office	11.1	120	120	0	0.0%	
	Inspector's Office(s) / Workstation(s)	11.9	128	126	-2	-1.6%	
	Station Chief Office / Watch Desk	11.1	120	120	0	0.0%	Station Chief / Station Capt.
	Computer Training / Testing Room	19.5	210	231	21	10.0%	
	Training Officer Office	9.3	100	100	0	0.0%	Asst. Chief of Training
	Training Room	31.2	336	369	33	9.8%	
Reserve	Training Room Storage	7.4	80	80	0	0.0%	
	Logistics Office	7.4	80	80	0	0.0%	
	Logistics Storage	14.5	156	155	-1	-0.6%	
ECC	Air Force Reserve and Active Duty Mobility / Deployment Gear Stor.	18.6	200	200	0	0.0%	10 SF / Reservist
	Air Force Reserve Firefighter PPE Gear	22.3	240	238	-2	-0.8%	
	Air Force Reserve Supervisor	11.1	120	119	-1	-0.8%	
	Air Force Reserve Workstations	17.8	192	200	8	4.2%	
SUBTOTAL TRAINING & ADMINISTRATIVE AREA		342.1	3,682	3,839	157	4.3%	
EMERGENCY CONTROL CENTER (ECC)							
ECC	ECC Dispatcher	17.8	192	211	19	9.9%	
	ECC IT Room	5.6	60	62	2	3.3%	
	ECC Kitchenette	1.9	20	20	0	0.0%	
	ECC Restroom	4.5	48	48	0	0.0%	
SUBTOTAL E.C.C. AREA		29.7	320	341	21	6.6%	
FIRE STATION NET ASSIGNED FLOOR AREA		1,489.7	16,035	16,194	159	1.0%	
INFRASTRUCTURE							
Facility Maint.	Custodial	7.4	80	44	-36	-45.1%	1/2% of Net Assigned Area
Mechanical / Electrical	Electrical Rooms	29.8	321	174	-147	-45.8%	2% of Net Assigned Area
	Mechanical Room - Admin Area	24.5	264	518	254	96.2%	Based upon Conditioned Area
Telecomm / IT	Base IT / Comms Room (s)	11.1	120	171	51	42.5%	
	IT / Comms	5.6	60	68	8	13.3%	
Vending	Vending / Recycling	5.6	60	56	-4	-6.7%	Based on number of Structural and/or ARFF Cos.
SUBTOTAL INFRASTRUCTURE AREA		119.8	1,289	1,031	-258	-20.0%	
FIRE STATION NET FUNCTIONAL AREA		1,609.4	17,324	17,225	-100	-0.6%	
NON-FUNCTION SPACE							
Circulation	Corridors, Halls, and other Interior Circulation	223.4	2,405	2,788	383	15.9%	15% of Net Assigned Area
	Entries	119.2	1,283	108	108	0.0%	Calculated at half area
	Walls	Interior Partitions and Walls	119.2	1,283	1,637	354	27.6%
SUBTOTAL NCN-FUNCTION AREA		342.6	3,688	4,633	845	22.9%	
TOTAL FIRE STATION GROSS AREA		1,952.0	21,012	21,757	745	3.5%	
FIRE STATION DESIGN EFFICIENCY			76%		74%		

PREDESIGN AREA MATRIX

SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

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1 2 3 4 5

COMPOSITE PLAN AND SITE NOTES



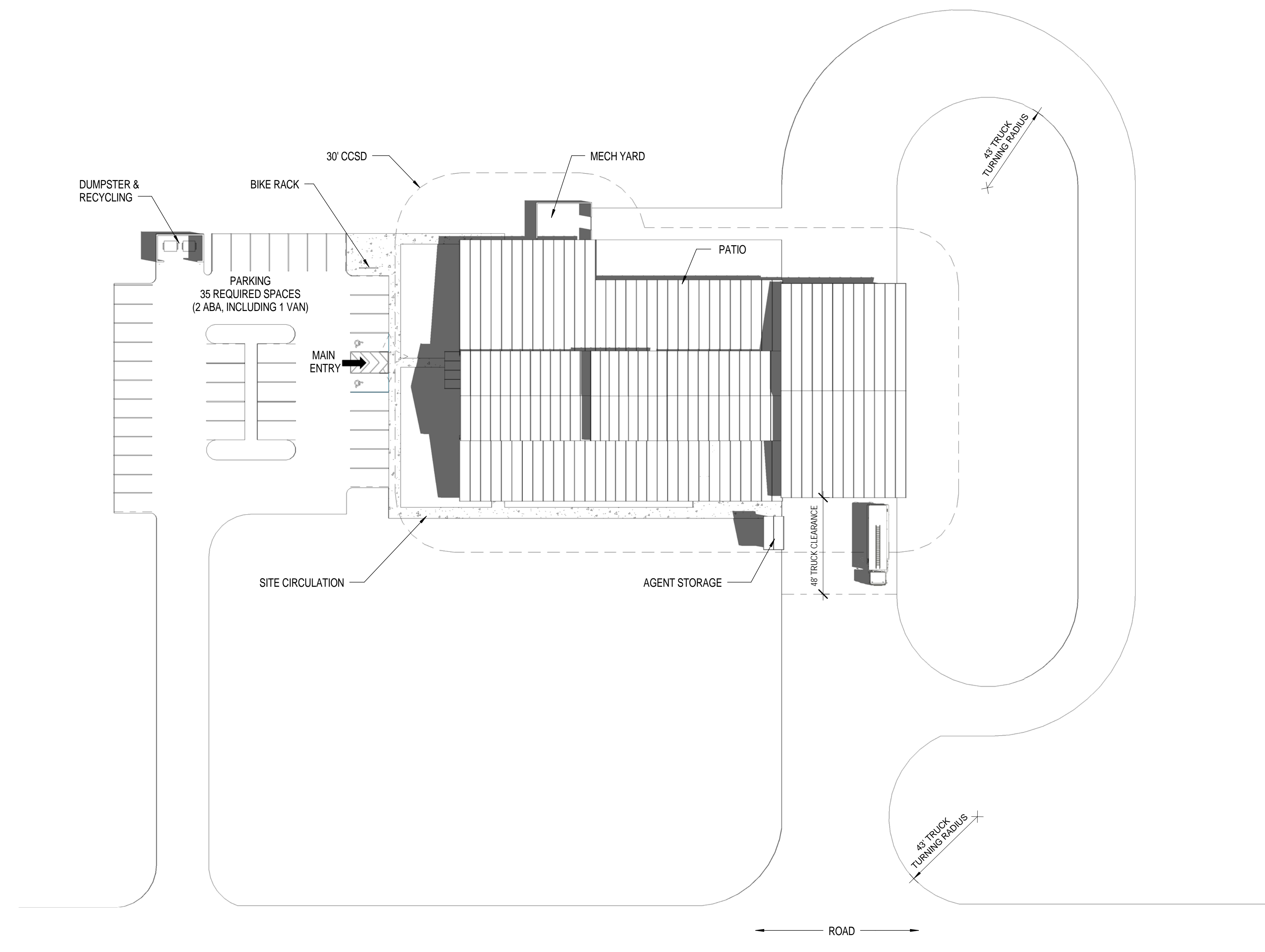
NOT FOR CONSTRUCTION

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

- 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 MISSIONS, 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.
- STORM WATER QUALITY/QUANTITY MITIGATION ARE NOT INCLUDED FOR THIS CONCEPTUAL SITE PLAN.
- ALL FUTURE FACILITIES WILL COMPLY WITH CURRENT ATFP REQUIREMENTS, AFF REGULATIONS AND CURRENT UFC.
- PRACTICE, WATER DUMP, AND TRUCK WASH AREAS TO BE DETERMINED ON SITE ON A CASE BY CASE NEEDS.
- AGENT STORAGE LOCATED ON STRUCTURE SIDE ON COMPOSITE A, ALTERNATIVE ON COMPOSITE B SHOWN ON ARFF SIDE.

CONVENTIONAL CONSTRUCTION STANDOFF DISTANCES (CCSD)

- 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 STANDARD (BILLETING 11 OR MORE DoD OCCS ROUTINELY HOUSED)
 - NON-LOAD BEARING WALLS
 - WALL TYPE: REINFORCED MASONRY



1 COMPOSITE B - HEADQUARTERS STRUCTURAL SITE PLAN
1/32" = 1'-0"

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

**FIRE STATION
HEADQUARTERS**



Jacobs Project No.: FDYD3106

Drawing Title:
**COMPOSITE B -
HEADQUARTERS
STRUCTURAL SITE**

Date: DECEMBER 2013

Designed By: LEG

Drawn By: KIW

Checked By: JW

CO127

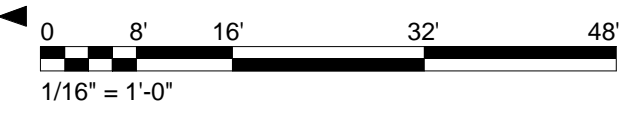
SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

1/2/2014 12:17:36 PM



① COMPOSITE B - HEADQUARTERS STRUCTURAL
OVERALL FLOOR PLAN
1/16" = 1'-0"

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



GENERAL NOTES

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.

MODULE LEGEND



Jacobs Project No.: FDYD3106

Drawing Title:

COMPOSITE B - HEADQUARTERS STRUCTURAL OVERALL FLOOR PLAN

Date: DECEMBER 2013

Designed By: LEG

Drawn By: KLW

Checked By: JW

CO128

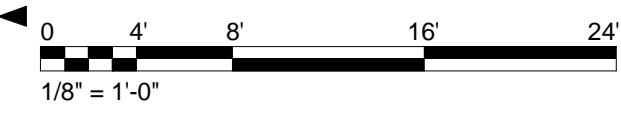
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AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:

**FIRE STATION
HEADQUARTERS**

(APPARATUS BAYS)



Jacobs Project No.: FDYD3106

Drawing Title:

**COMPOSITE B -
HEADQUARTERS
STRUCTURAL ENLARGED
FLOOR PLAN**

Date: DECEMBER 2013

Designed By: LEG

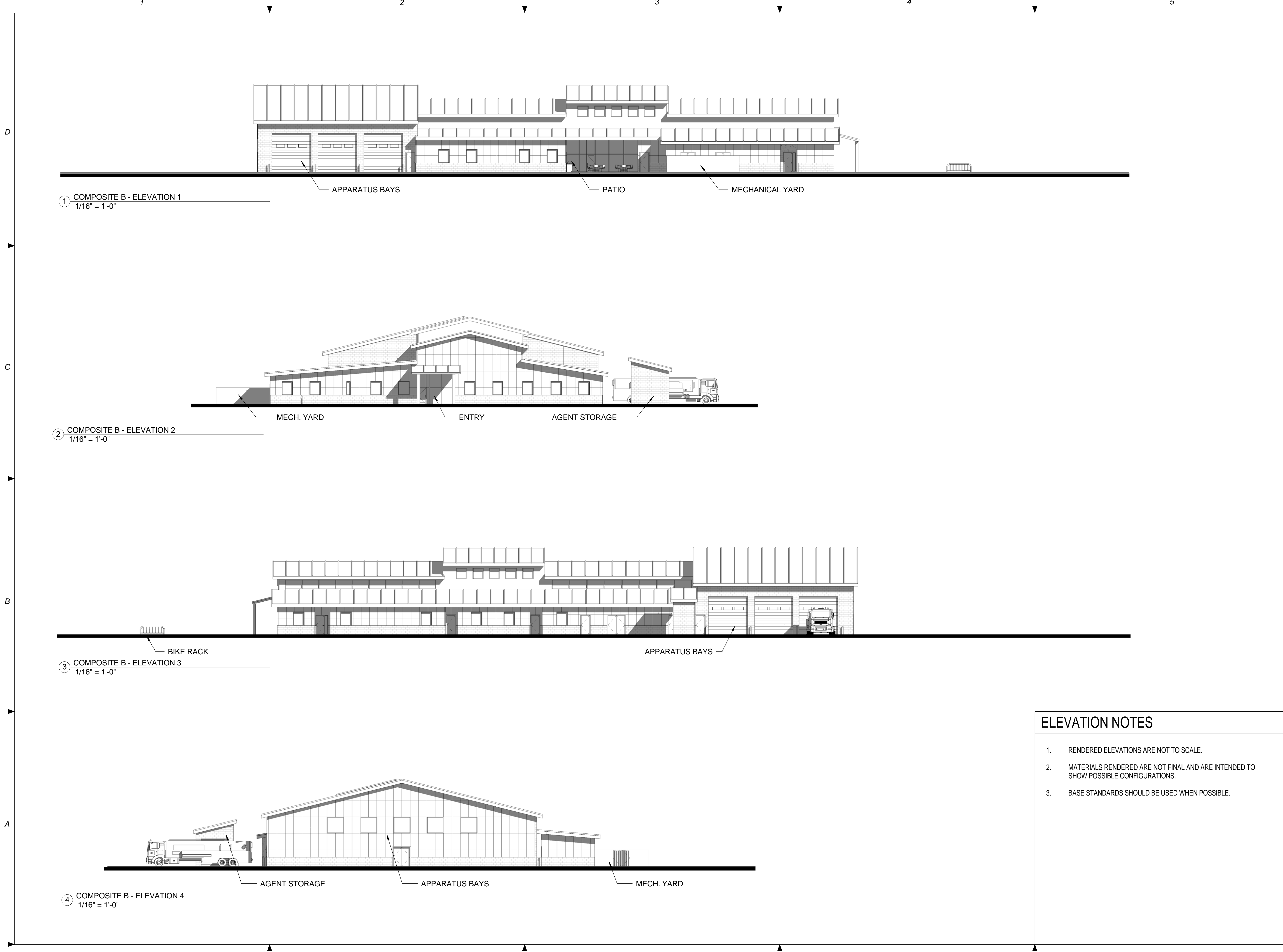
Drawn By: KLV

Checked By: JW

CO129

1 COMPOSITE B - HEADQUARTERS STRUCTURAL ENLARGED FLOOR PLAN
1/8" = 1'-0"

1/2/2014 3:47:43 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET



① COMPOSITE B - ELEVATION 1
1/16" = 1'-0"

② COMPOSITE B - ELEVATION 2
1/16" = 1'-0"

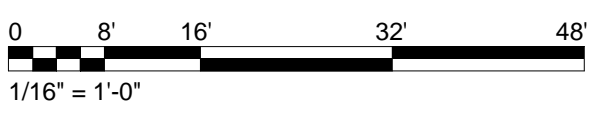
③ COMPOSITE B - ELEVATION 3
1/16" = 1'-0"

④ COMPOSITE B - ELEVATION 4
1/16" = 1'-0"

**AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:
FIRE STATION
HEADQUARTERS**

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.



Jacobs Project No.: FDYD3106

Drawing Title:

**COMPOSITE B -
HEADQUARTERS
STRUCTURAL ELEVATIONS**

Date: DECEMBER 2013

Designed By: LEG

Drawn By: KLW

Checked By: JW

CO130

1/3/2014 9:44:57 AM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET