

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

FACILITIES DYNAMIC PROTOTYPES DESIGN FOR FIRE STATION - SATELLITE

SUBMISSION:
REVISED FINAL
DATE:
DECEMBER 2013



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

FIRE STATION
SATELLITE

Jacobs Project No.: FDYD3106

Drawing Title:
COVER SHEET

Date: DECEMBER 2013

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

Drawing No.:
G-000

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G-002	PROJECT INFORMATION
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MO202	MODULE - LARGE VEHICLE APPARATUS BAYS
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MO204	MODULE - APPARATUS SUPPORT - SUITE
MO205	MODULE - APPARATUS SUPPORT - LINEAR
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MO207	MODULE - RESIDENTIAL - DAY ROOM
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CO202	COMPOSITE A - SATELLITE COMBINATION OVERALL FLOOR PLAN AND PERSPECTIVES
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CO210	COMPOSITE A - SATELLITE ARFF OVERALL FLOOR PLAN AND PERSPECTIVES
CO211	COMPOSITE A - SATELLITE ARFF ENLARGED FLOOR PLAN
CO212	COMPOSITE A - SATELLITE ARFF ELEVATIONS
CO213	COMPOSITE B - SATELLITE ARFF SITE AND PROGRAM
CO214	COMPOSITE B - SATELLITE ARFF OVERALL FLOOR PLAN AND PERSPECTIVES
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CO222	COMPOSITE B - SATELLITE STRUCTURAL OVERALL FLOOR PLAN AND PERSPECTIVES
CO223	COMPOSITE B - SATELLITE STRUCTURAL ENLARGED FLOOR PLAN
CO224	COMPOSITE B - SATELLITE STRUCTURAL ELEVATIONS

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

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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

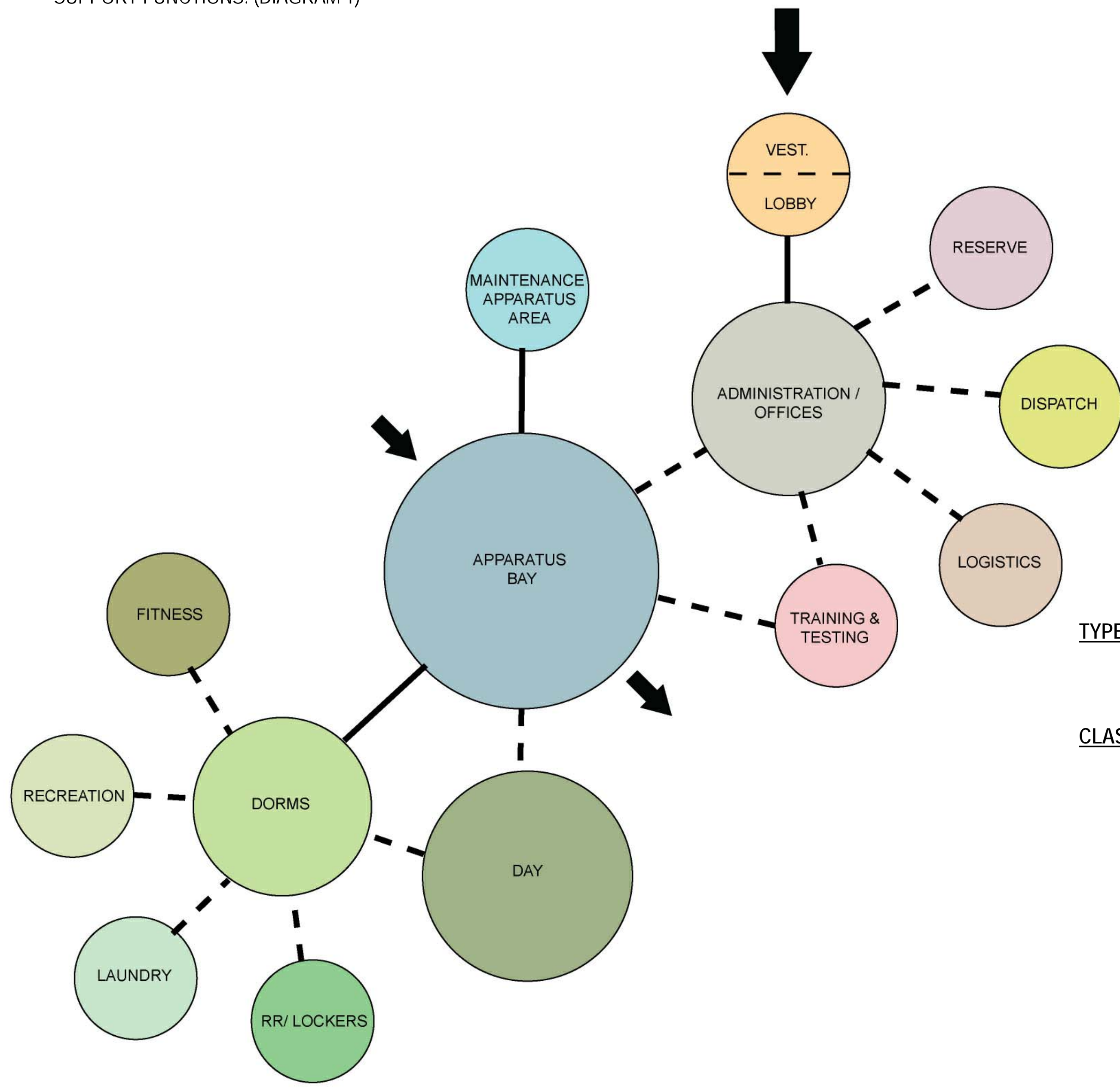
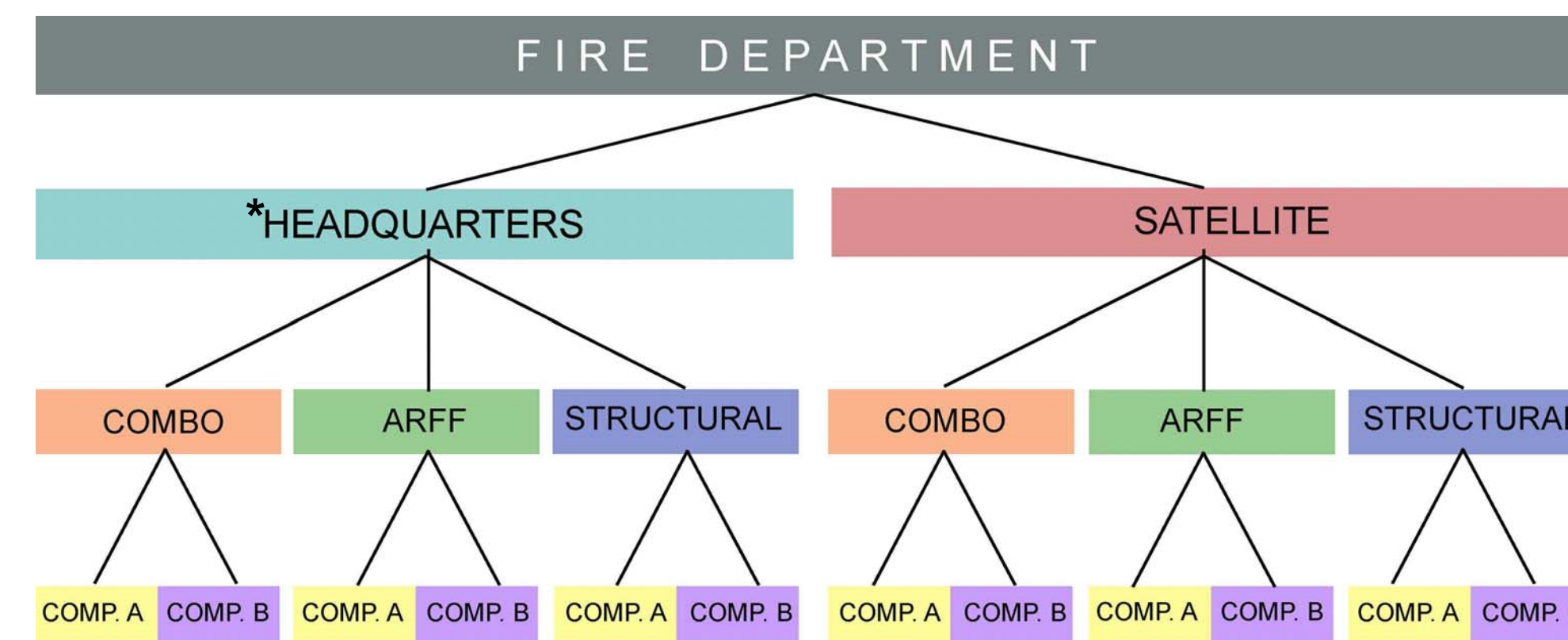


DIAGRAM 1

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.

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FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:

FIRE STATION
SATELLITE

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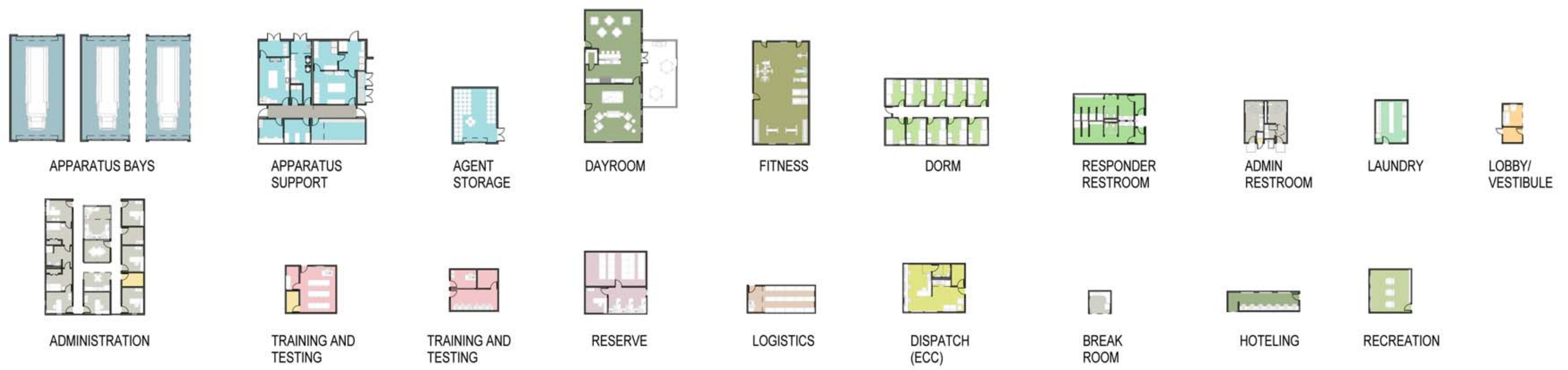
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G-001

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									
Vehicle Size Class		Max. Per Base	Staffed Vehicle Count	Per Vehicle	Total						
P-22/24 Structural Pumper	Large Structural	1	1	4	4						
P-22/24 Structural Pumper or P-33 75' Quint	Large Structural	1	1	4	4						
P-30 Rescue Vehicle	Small	1	1	2	2						
P-18/26 Water Tanker	Medium Structural	1									
P-23 Crash Truck (3,000 gal)	Large ARFF	1	1	3	3						
P-19 Crash Truck (1,500 gal)	Medium ARFF	1	1	3	3						
P-34 RIV (500 gal)	Small	1	1	2	2						
P-31 HazMat Vehicle	Medium Structural	1	1	1	1						
Chief 1 - Command and Control Vehicle	Small	1	1	1	1						
Chief 2 - Command and Control Vehicle	Small	1	1	1	1						
Total Counts:		9		21							
Use Nos. Above:		No	Bay Sizes								
Vehicle Size Class	Alt. Ct.	Total Ct.	Length		Width			End Bay			
			m	ft	Single Bay	Middle Bay	End Bay	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	
Apparatus Bay Area:			No		Number:						

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

Module	No. Occup	No. Areas	Area	Area	Area	Comments
			SF	SF	SF	
MAINTENANCE & APPARATUS AREA						
Apparatus Bay	1	1	15,840	1,471.5	15,840	
Apparatus Support	1	1	64	5.9	64	
PPE Gear Storage	20	1	200	18.6	200	
Host Storage	1	1	54	5.0	54	
SCBA Maintenance Room	1	1	300	27.9	300	
SCBA Compressor Room	1	1	100	9.3	100	
Work Room / Equipment Maintenance	1	1	120	11.1	120	
Equipment Wash / Disinfection	1	1	180	13.9	180	
Infectious Control	1	1	160	14.9	160	
Protective Clothing Laundry	1	1	300	27.9	300	
HST Storage - Cover	1	1	40	3.7	40	
HAZMAT / OESNE Equipment Storage	1	1	120	11.1	120	
Vehicle Maintenance / Storage Bay	1	1	64	5.9	64	
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 Extinguisher Maintenance and Storage	0	0	0	0.0	0	
Flightline Fire Extinguisher Maintenance	1	1	160	14.9	160	
Flightline Fire Extinguisher Tank Recovery Exterior Covered Storage	0	0	0	0.0	0	
Spans Flightline Fire Extinguisher Tank Exterior Covered Storage	0	0	0	0.0	0	
SUBTOTAL MAINTENANCE & APPARATUS AREA			20	0	1,640.2	17,858
DAY ROOM & RESIDENTIAL AREA						
Day Room	20	1	120	22.0	2,400	Combination of dining, kitchen, and lounge
Housing Stations	7	40	28.0	280		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	
Bathrooms / Showers / Changing - Female Responders	1	1	234	21.7	234	
Bathrooms / Showers / Changing - Male Responders	1	1	385	35.8	385	
Laundry	1	1	240	22.3	240	
Recreation	1	1	1,200	111.5	1,200	
SUBTOTAL DAY ROOM & RESIDENTIAL AREA			20	1	674.4	7,293
TRAINING & ADMINISTRATIVE AREA						
Lobby	0	1	61	5.9	61	
Lobby Area	1	1	100	9.3	100	
Public Toilet (ADA compliant, unisex)	1	1	40	3.7	40	One Lavatory and one Water Closet
Administration Assistant	1	1	120	11.1	120	
Station Officer's Office / Watch Desk	1	1	120	11.1	120	Station Chief / Station Capt.
Fire Chief's Office	1	1	120	11.1	120	
Deputy Chief's Office	1	1	120	11.1	120	
Chief's Conference Room	1	1	120	11.1	120	
Assistant Chief / Shift Supervisor	1	1	120	11.1	120	Asst. Chief of Operations
Assistant Chief of Fire Prevention	1	1	120	11.1	120	
Inspector's Office(s) / Workstation(s)	2	1	120	11.9	120	
EMS Office	1	1	80	7.4	80	
HAZMAT Safety Office	1	1	120	11.1	120	
Union Representative - Office	1	1	100	9.3	100	
Fire Chief's Dorm Room	1	1	100	9.3	100	One Lavatory, one Water Closet, and one Shower
Chief's / Supervisor's Bathroom	1	1	75	7.0	75	
Assistant Chief of Operations / Shift Supervisor's Dorm Room	1	1	100	9.3	100	
Admin & Training Restrooms	2	1	146	13.6	146	
Female Lavatory/Restroom	1	1	100	9.3	100	
Male Lavatory/Restroom	1	1	100	9.3	100	
Administration & Training Kitchens/Break Area	1	1	100	9.3	100	
General Administration Storage	1	1	80	7.4	80	
Training Office	1	1	100	9.3	100	Asst. Chief of Training
Training Room	20	1	560	52.0	560	
Training Room Storage	1	1	80	7.4	80	
Computer Training / Testing Room	1	1	210	19.5	210	
Logistics Office	1	1	80	7.4	80	
Logistics Storage	1	1	240	22.3	240	
Air Force Reserve Supervisor	1	1	120	11.1	120	
Air Force Reserve Workstation	3	3	64	5.9	192	
Air Force Reserve and Active Duty Mobility / Deployment Gear Storage	0	0	200	18.6	200	
Air Force Reserve Firefighter PPE Closet	0	1	240	22.3	240	10 SF / Reservist
SUBTOTAL TRAINING & ADMINISTRATIVE AREA			74	1	318.8	4,218
EMERGENCY CONTROL CENTER (ECC)						
			1	1	120	11.1

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.

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

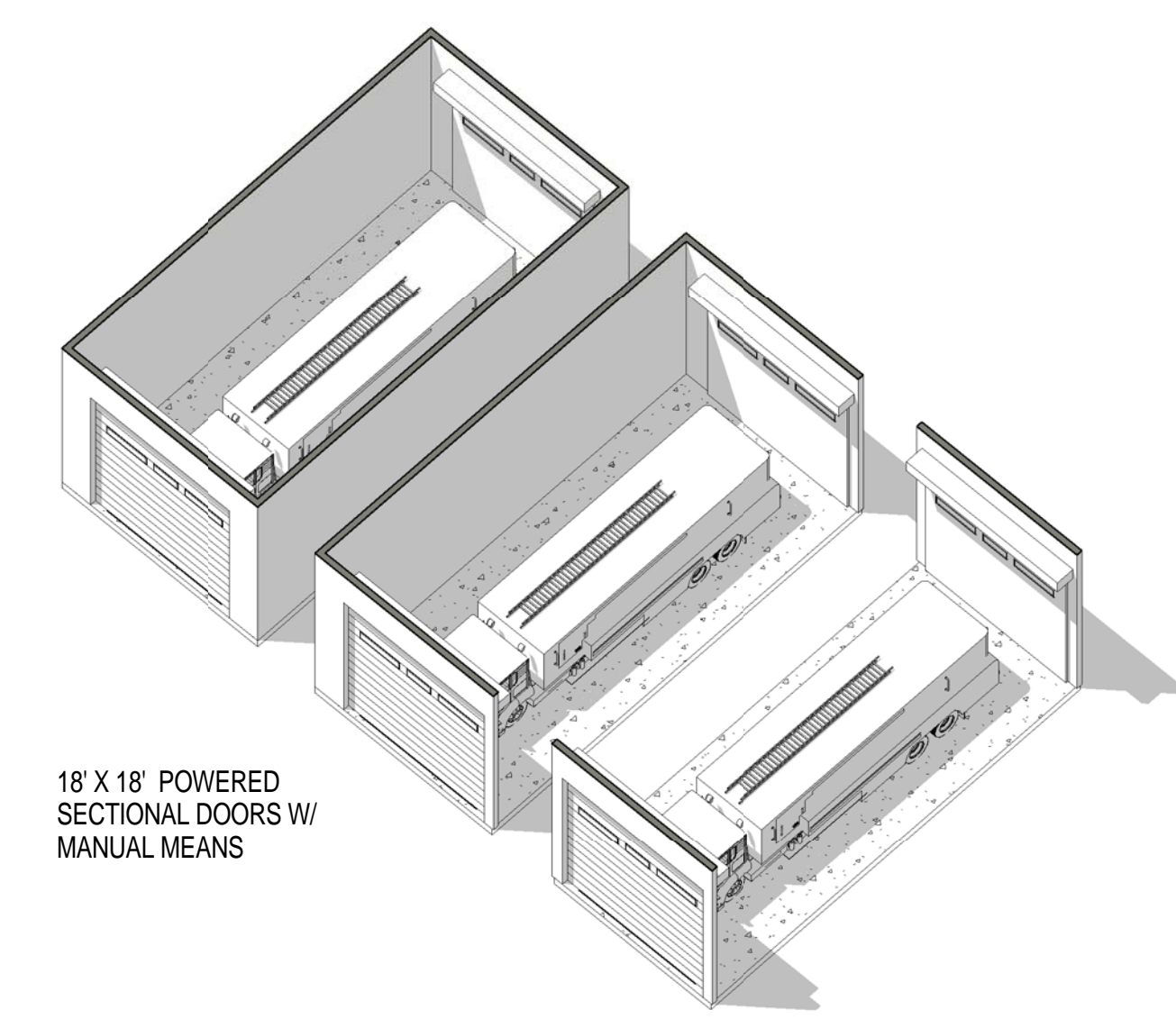
1. THE AIR FORCE WILL DETERMINE ON A CASE BY CASE BASIS BASED ON CLIMATIC CONDITIONS HOW TO CONDITION AND HEAT THE APPARATUS BAY
2. APPARATUS BAYS HAVE THREE POSSIBLE CONFIGURATIONS:
 - CONFIGURATION "A"- TRUCK PARKED BETWEEN TWO WALLS.
 - CONFIGURATION "B"- TRUCK PARKED BETWEEN A WALL AND ANOTHER TRUCK.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

FLOOR FINISH LEGEND

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

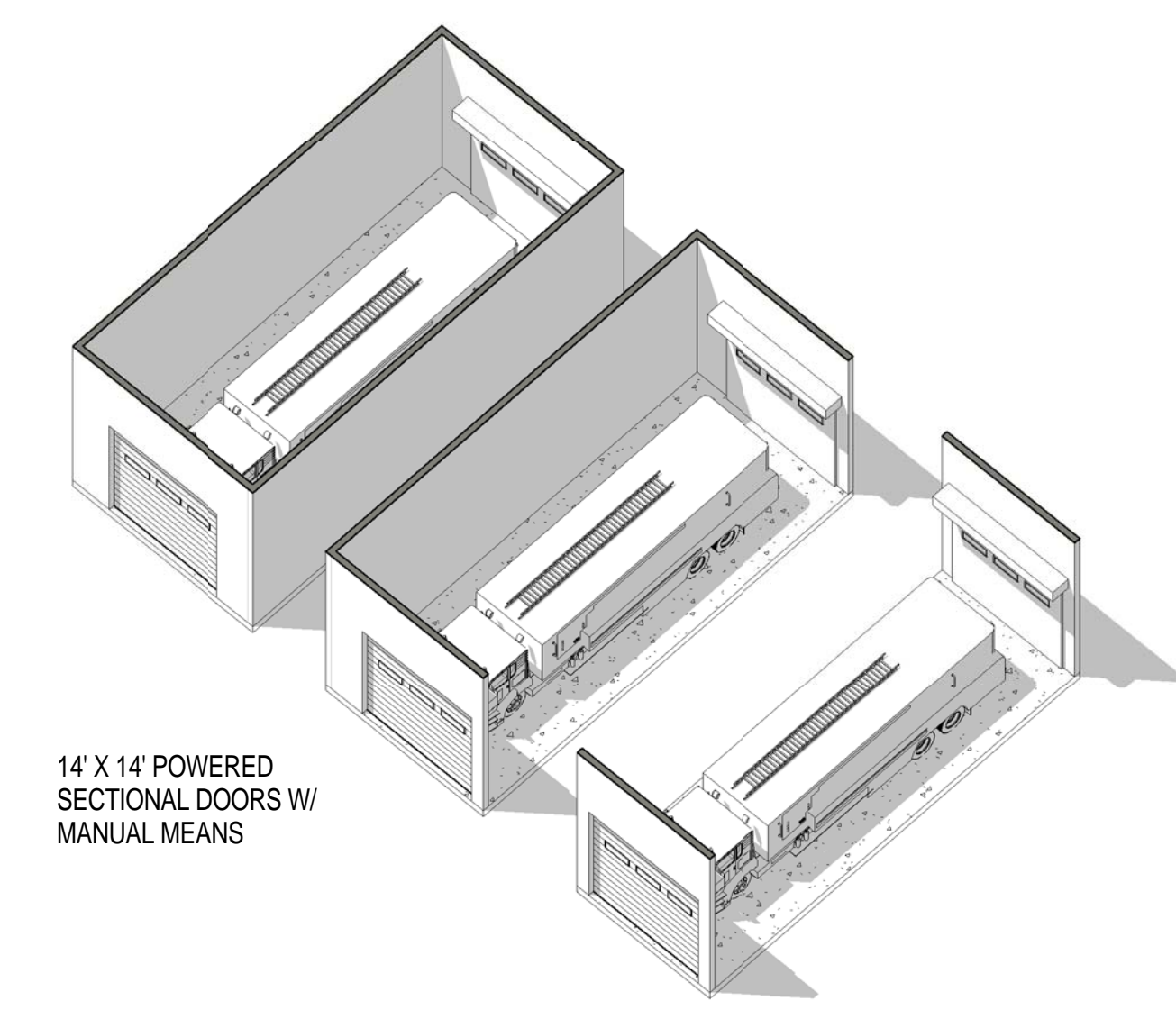
CEILING LEGEND

- 2 X 2 ACOUSTICAL TILE
- GYPSUM BOARD
- 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



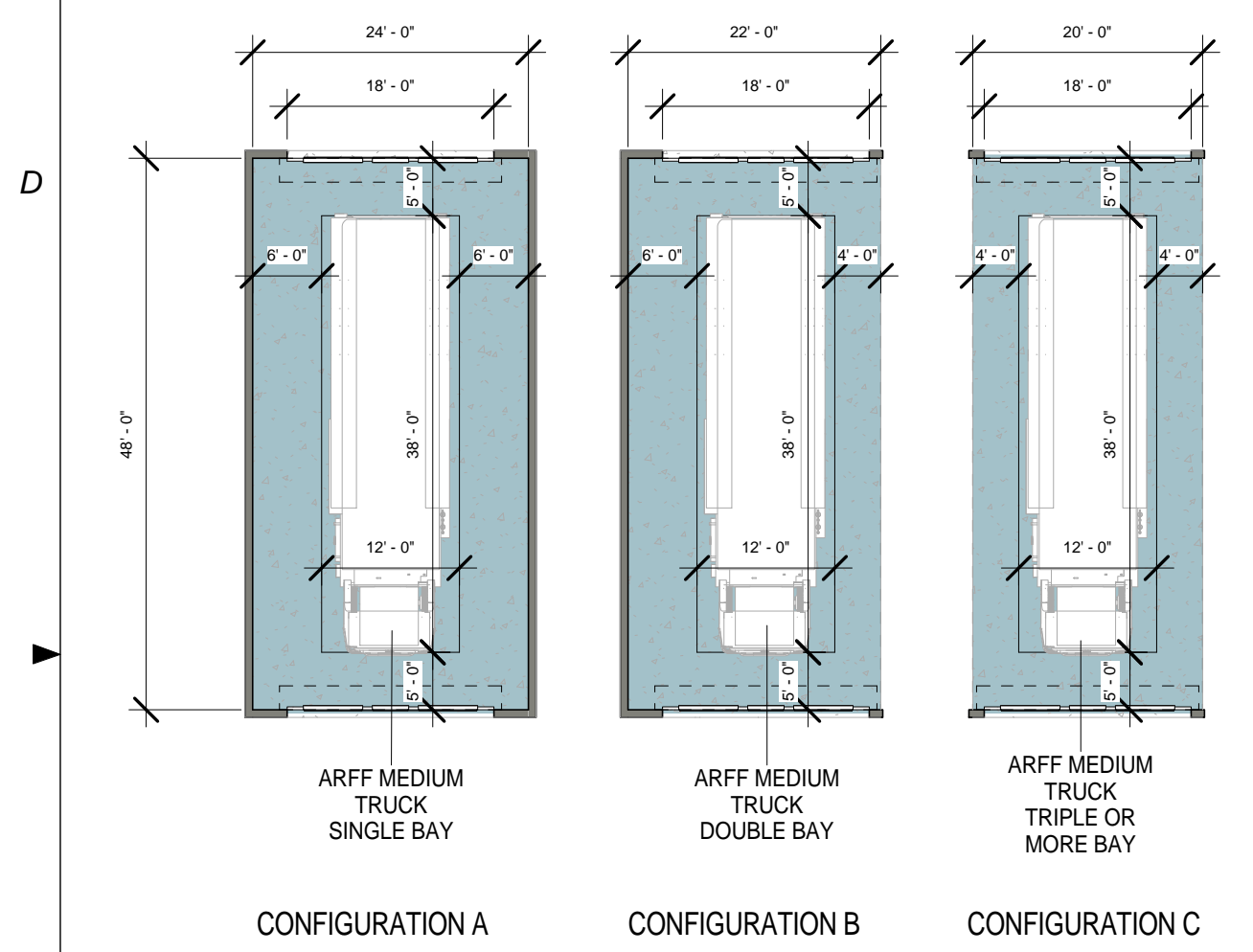
18' X 18' POWERED SECTIONAL DOORS W/ MANUAL MEANS

3 MEDIUM ARFF APPARATUS BAYS - AXONS

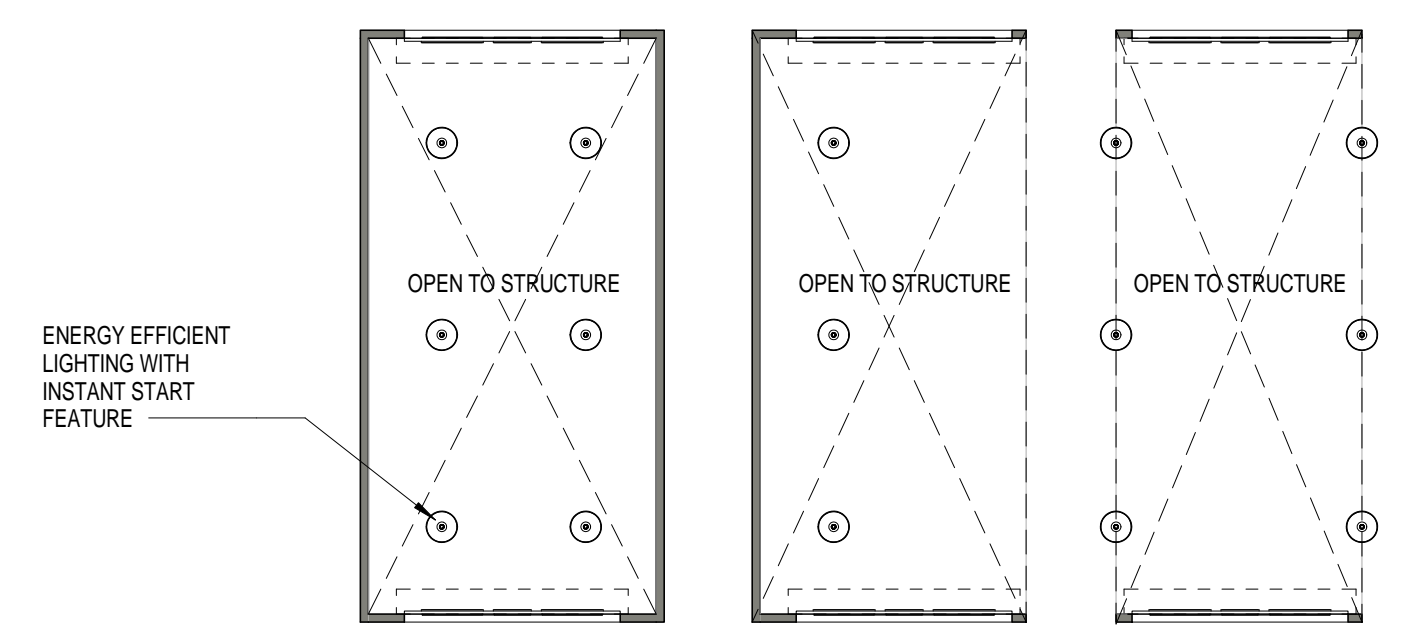


14' X 14' POWERED SECTIONAL DOORS W/ MANUAL MEANS

6 MEDIUM STRUCTURAL APPARATUS BAYS - AXONS

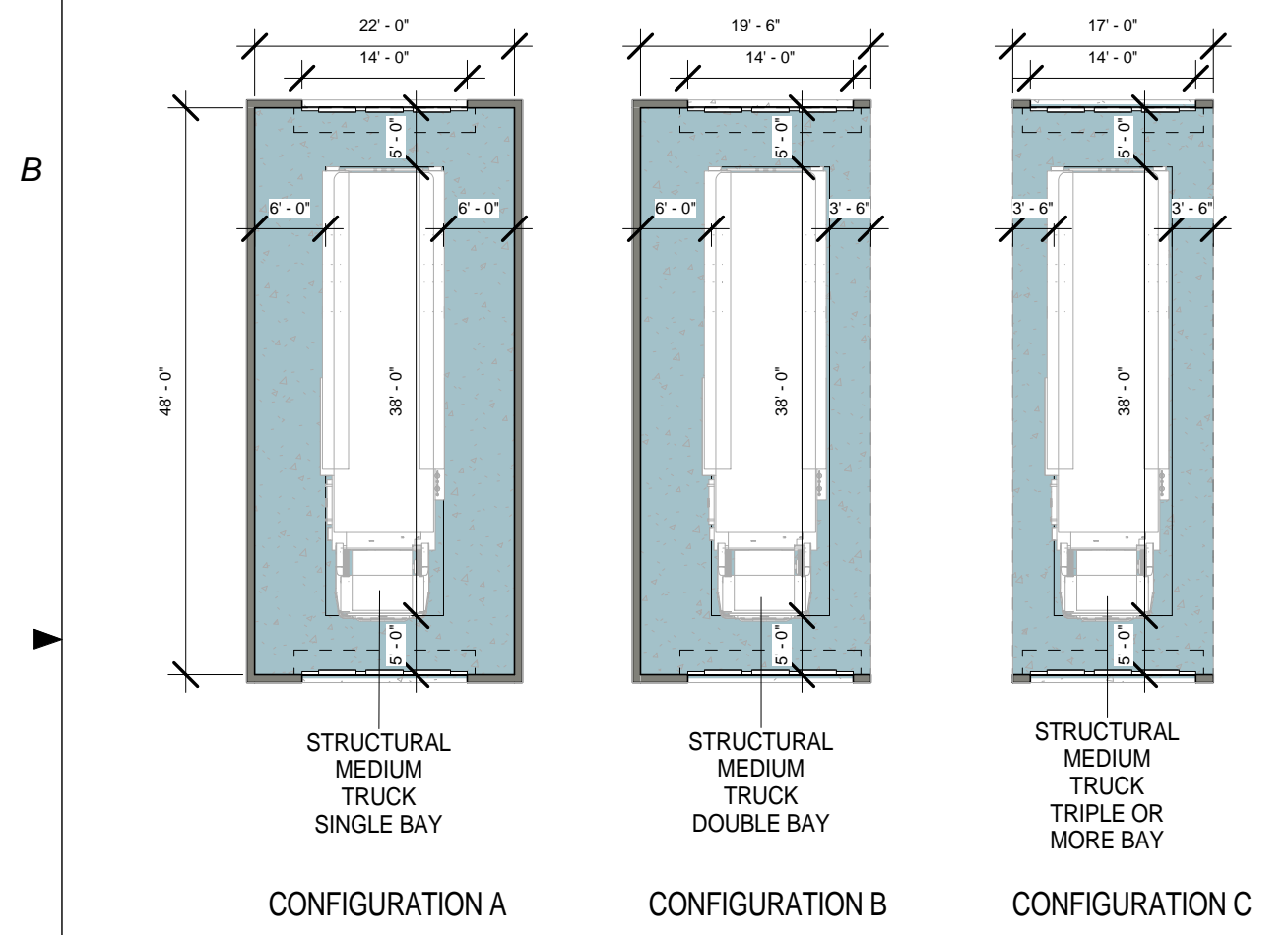


1 MEDIUM ARFF APPARATUS BAYS - FLOOR PLANS
1/16" = 1'-0"

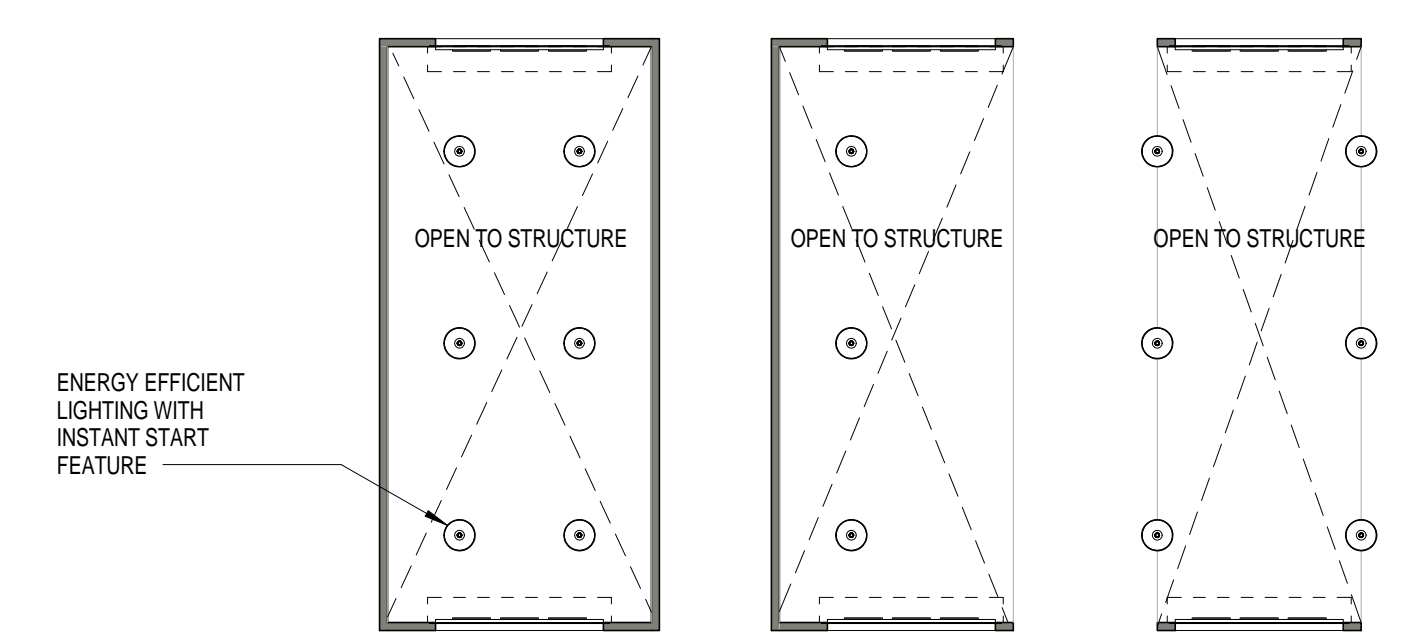


LIGHTING FIXTURES AND LAYOUTS ARE NOTIONAL - ACTUAL FIXTURES AND LAYOUTS TO BE DESIGNED PER UFC LIGHTING CRITERIA. IT IS SUGGESTED TO NOT PLACE OVERHEAD LIGHT DIRECTLY ABOVE VEHICLES, RATHER BETWEEN OR BESIDE TO LIGHT PATH OF TRAVEL.

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

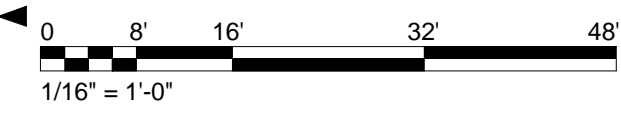


4 MEDIUM STRUCTURAL APPARATUS BAYS - FLOOR PLANS
1/16" = 1'-0"



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



Jacobs Project No.: FDYD3106

Drawing Title:

MODULE - MEDIUM VEHICLE APPARATUS BAYS

Date: DECEMBER 2013

Designed By: LEG

Drawn By: KIW

Checked By: JW

MO201

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

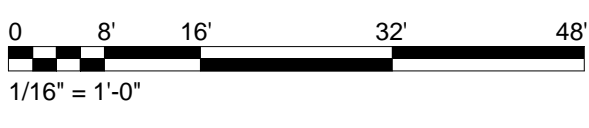
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FLOOR FINISH LEGEND

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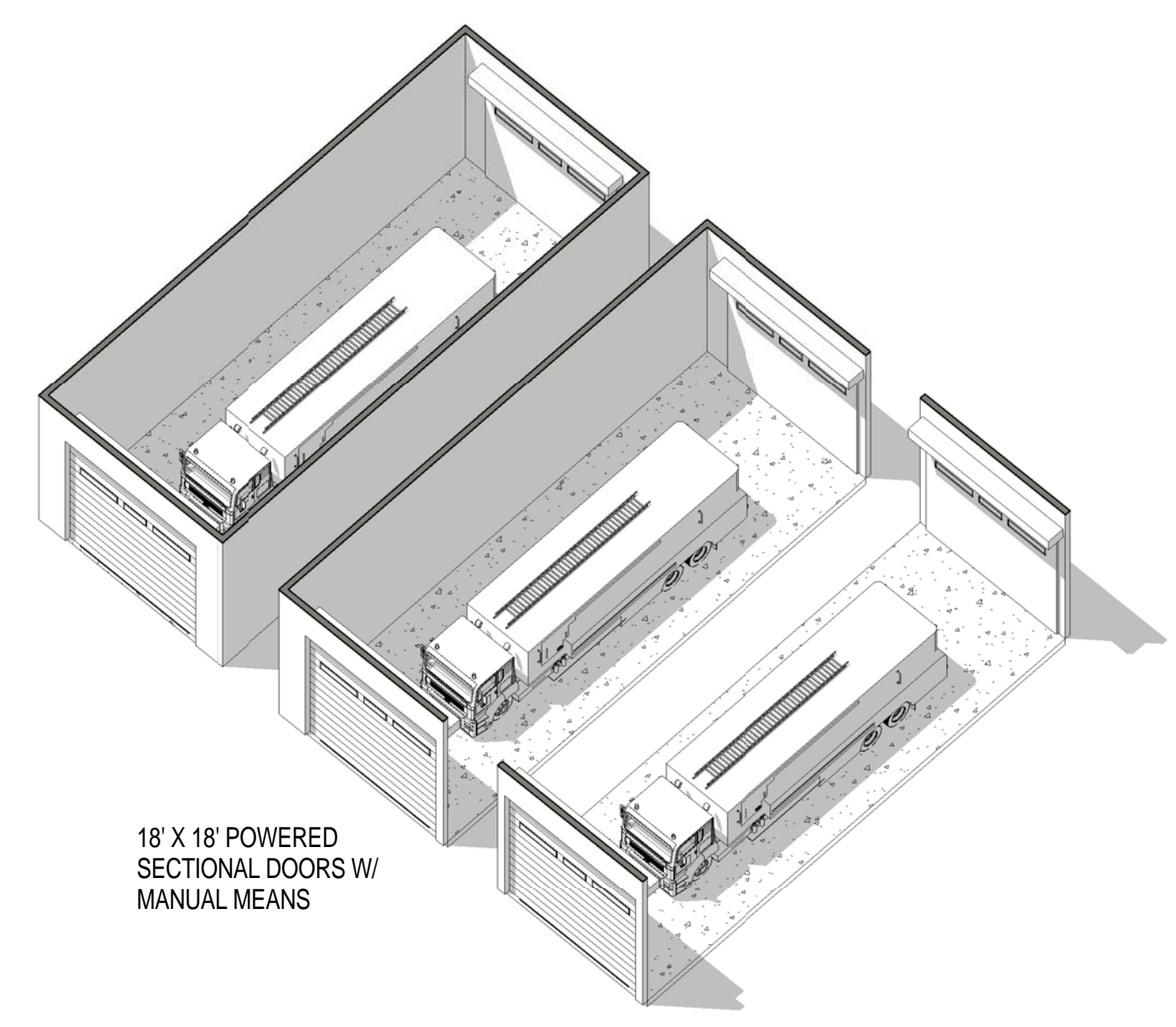


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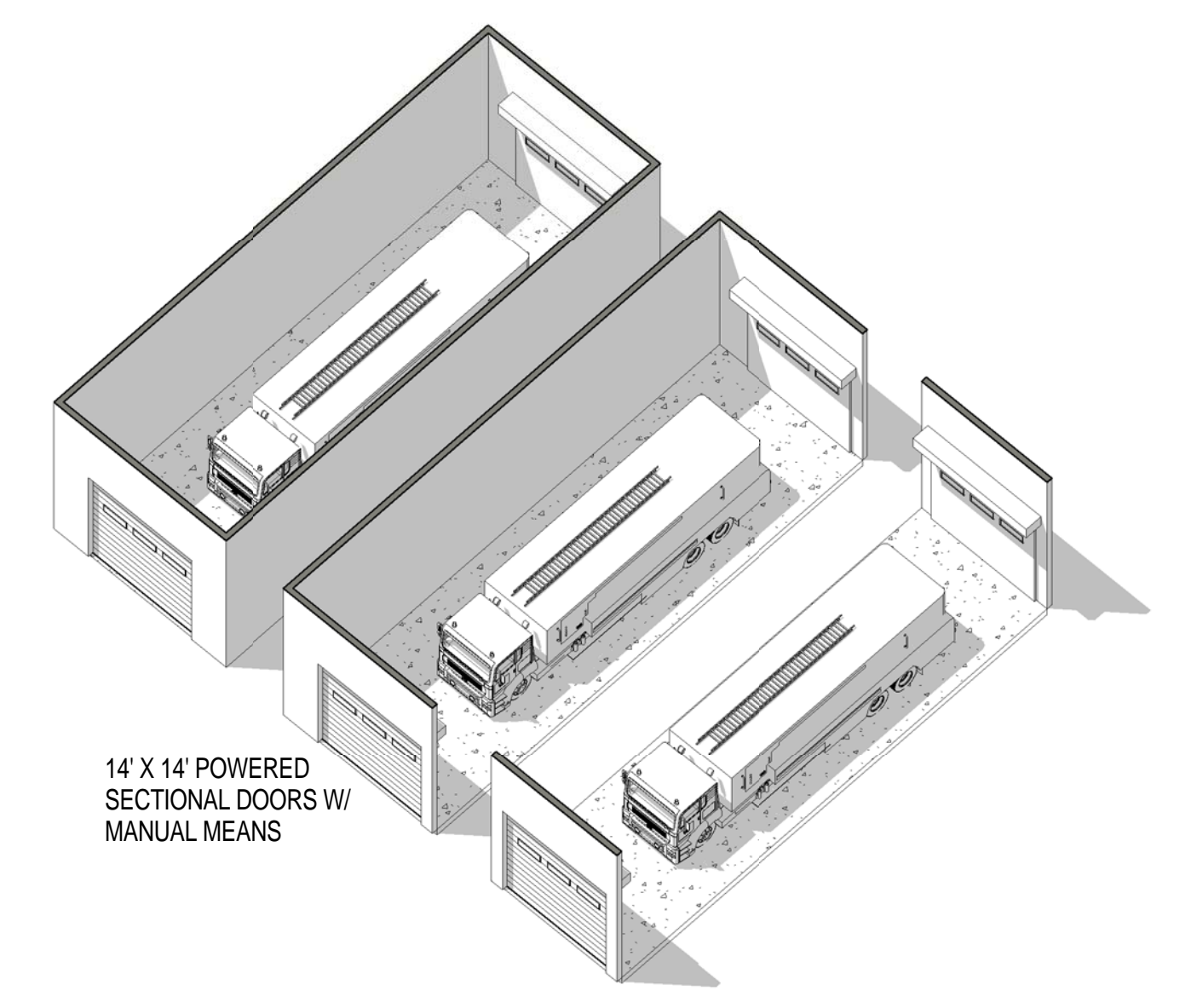
Drawing Title:
MODULE - LARGE VEHICLE APPARATUS BAYS

Date: DECEMBER 2013

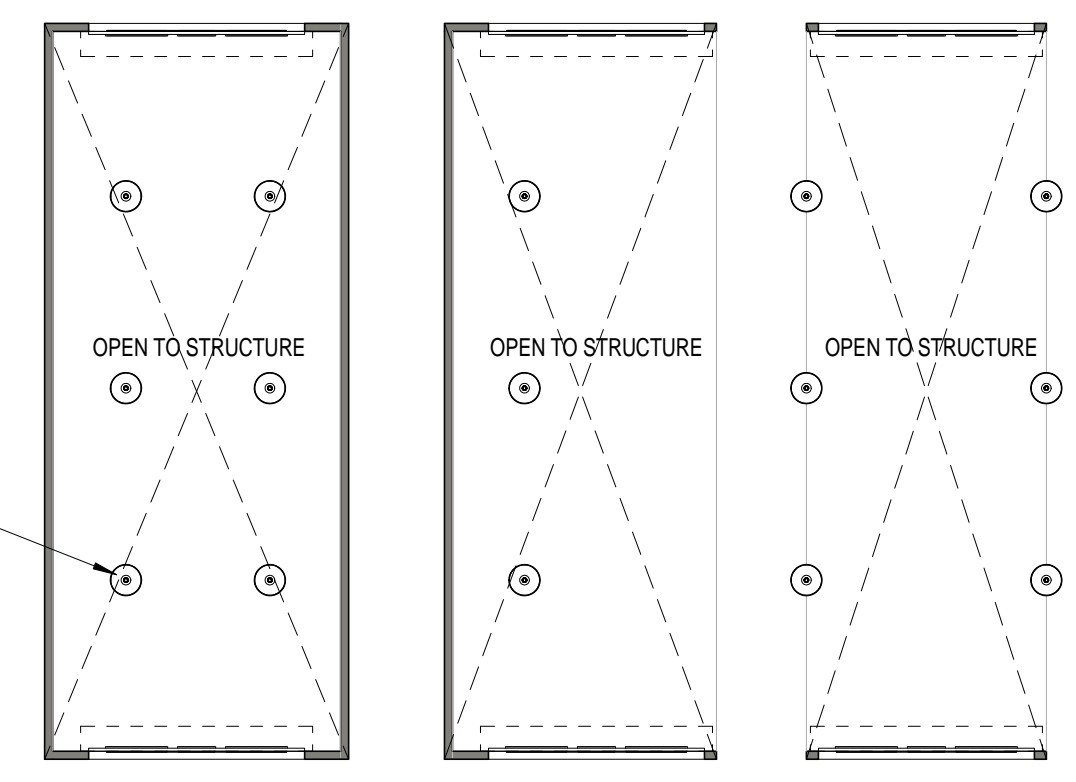
Designed By: LEG
 Drawn By: KLV
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MO202



③ LARGE ARFF APPARATUS BAYS - AXONS

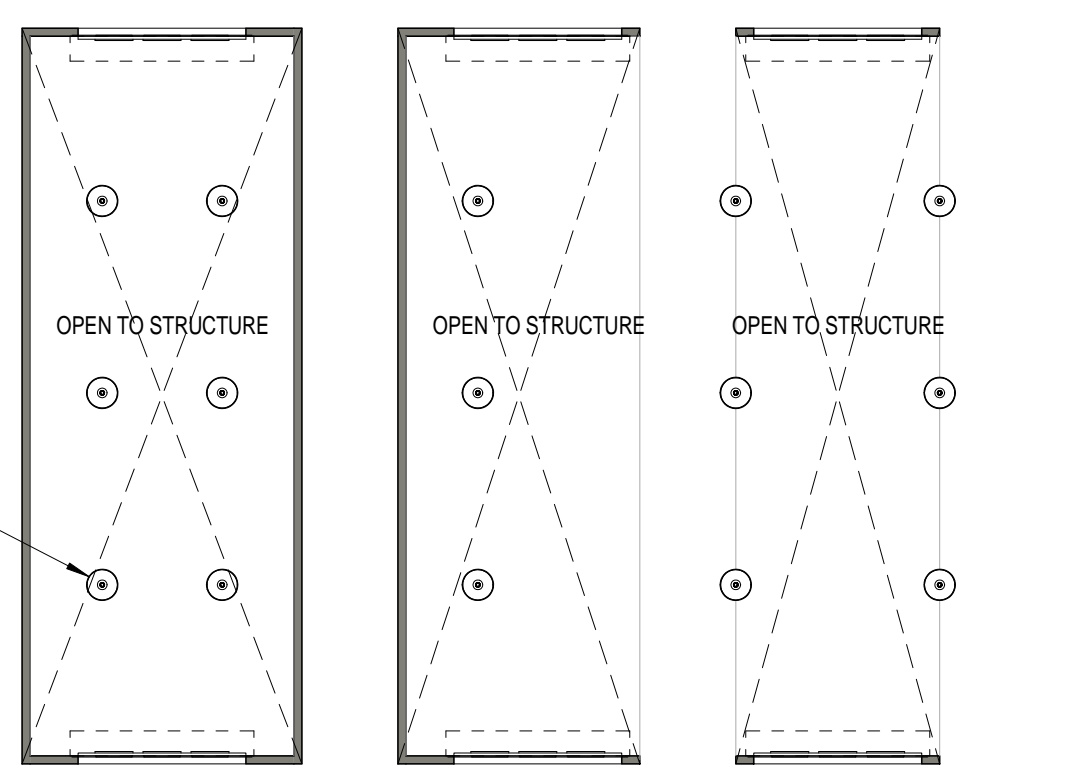


⑥ LARGE STRUCTURAL APPARATUS BAYS - AXONS



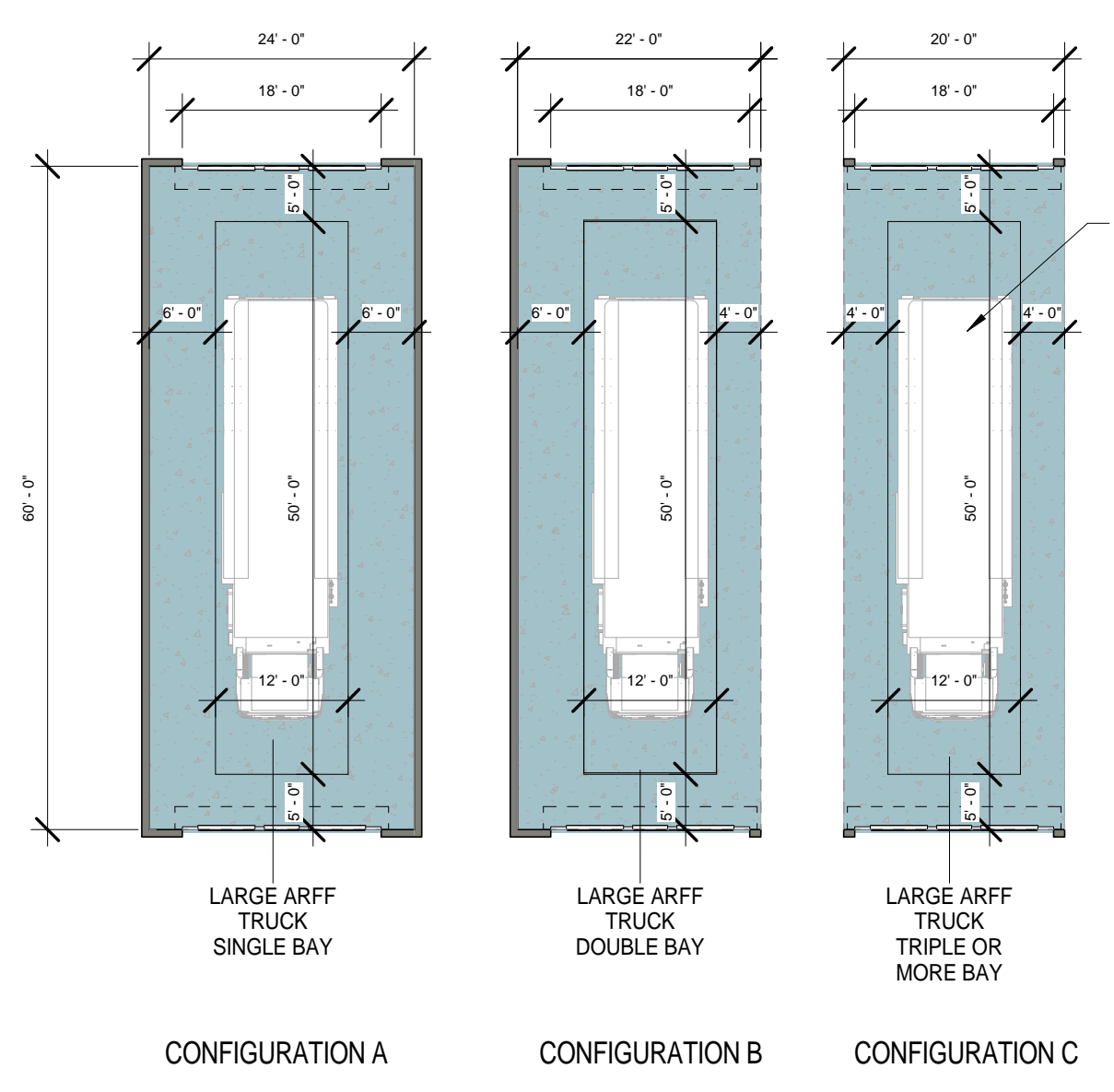
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② LARGE ARFF APPARATUS BAYS - REFLECTED CEILING PLANS
1/16" = 1'-0"

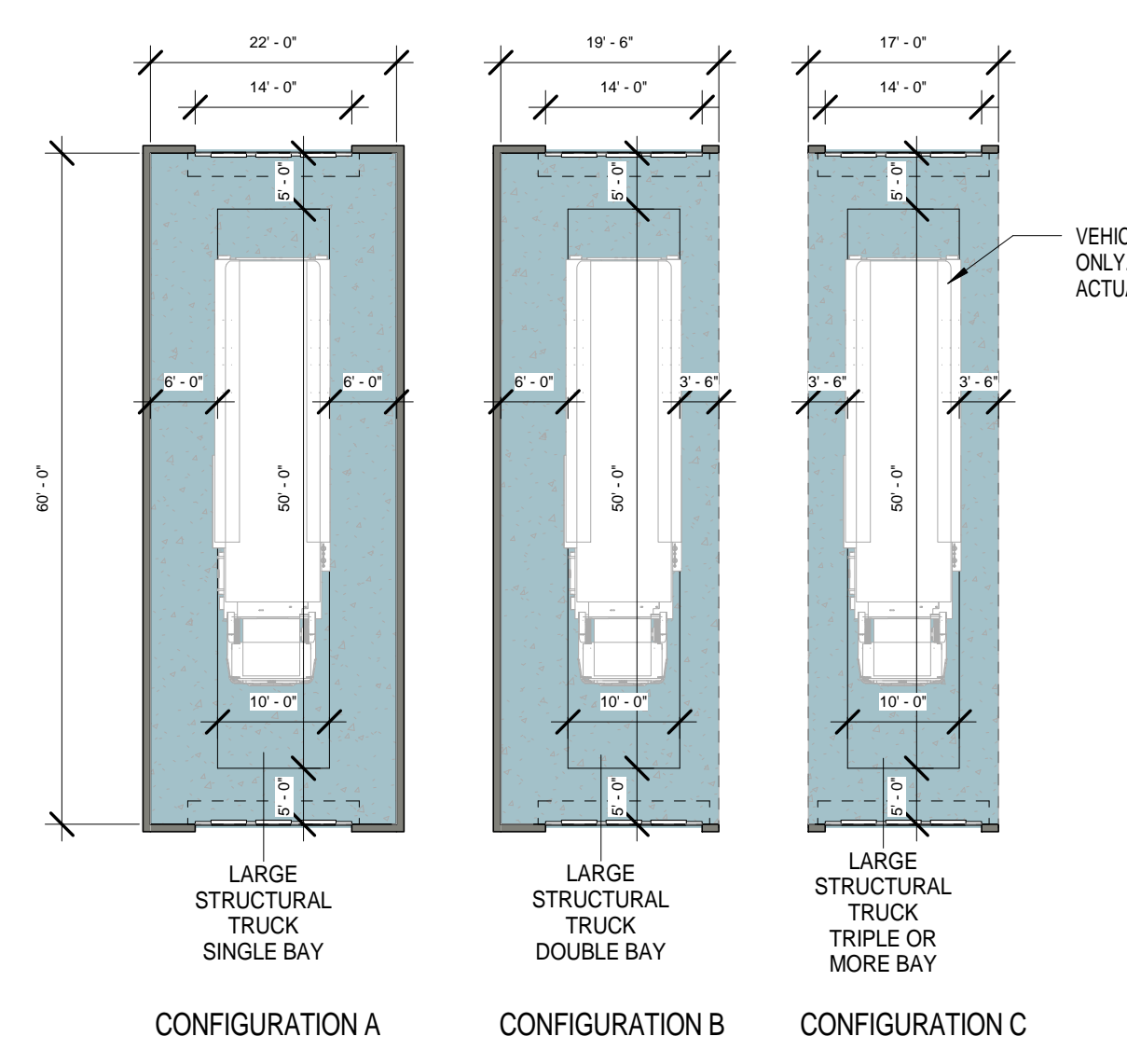


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⑤ LARGE STRUCTURAL APPARATUS BAYS - REFLECTED CEILING PLANS
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① LARGE ARFF APPARATUS BAYS - FLOOR PLANS
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④ LARGE STRUCTURAL APPARATUS BAYS - FLOOR PLANS
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2. EVERY WALL IS GENERIC UNLESS SPECIFICALLY NOTED.
3. EVERY WALL IS A PLACE HOLDER.
4. AS THE MODULES ARE COMBINED TO CREATE A FACILITY, DISCRETION SHOULD BE USED AS TO WHICH WALLS NEED TO BE MOVED, ADDED OR REMOVED.
5. IF NO WALL IS PRESENT, IT IS THE DESIGN INTENT TO LEAVE THAT SPACE OPEN TO ADJACENT SPACES WITHIN THE FACILITY.
6. ALL FURNITURE IS A PLACE HOLDER UNLESS SPECIFICALLY NOTED.
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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

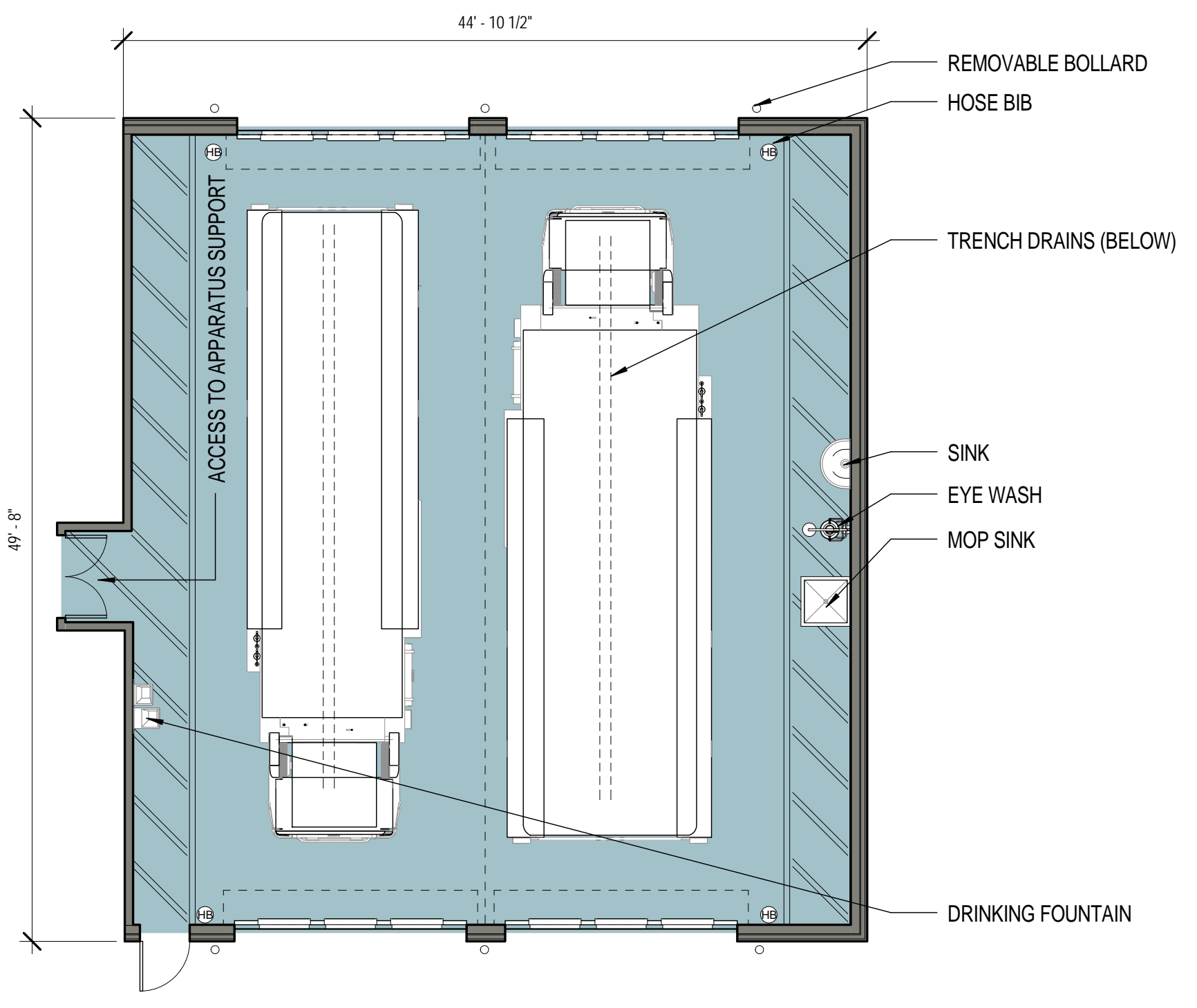
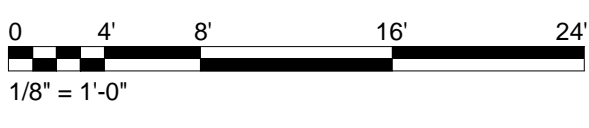
1. ALL BAYS MUST ACCOMMODATE THE LARGEST VEHICLE AND CONTAIN REQUIRED SUPPORT UTILITIES PER THE UFC.
2. DRIVE THROUGH BAYS ARE PREFERABLE.
3. BOLLARDS ARE REMOVABLE AND ARE NOTIONALLY REPRESENTED. LOCATION OF BOLLARDS SHOULD BE CASE SPECIFIC AND FOLLOW UFC GUIDELINES.
4. HEIGHT OF BAYS DETERMINED BY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

FLOOR FINISH LEGEND

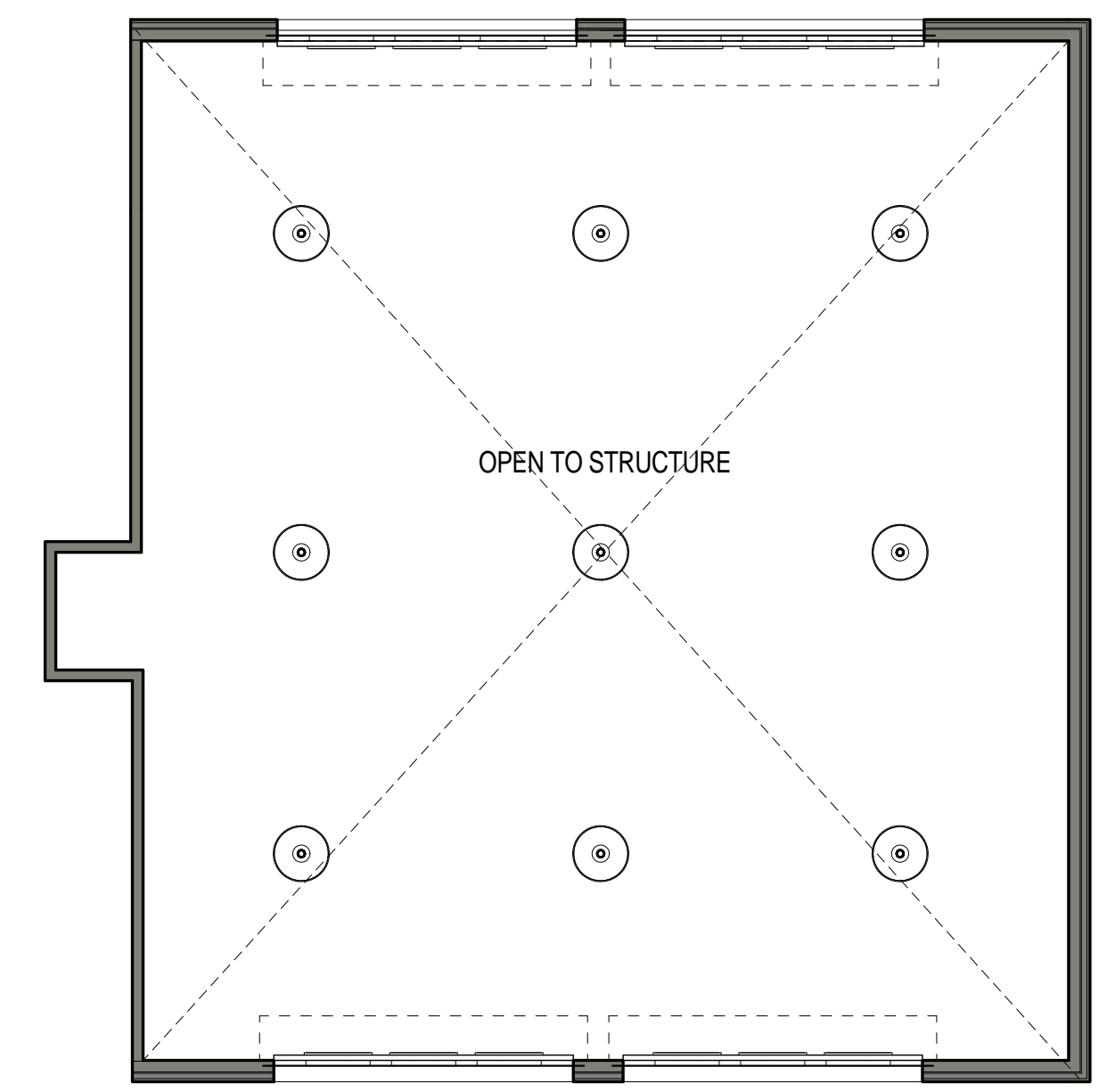
	SEALED CONCRETE
	CARPET
	CERAMIC TILE
	RUBBER SHEET
	FLOOR DRAIN
	HOSE BIB

CEILING LEGEND

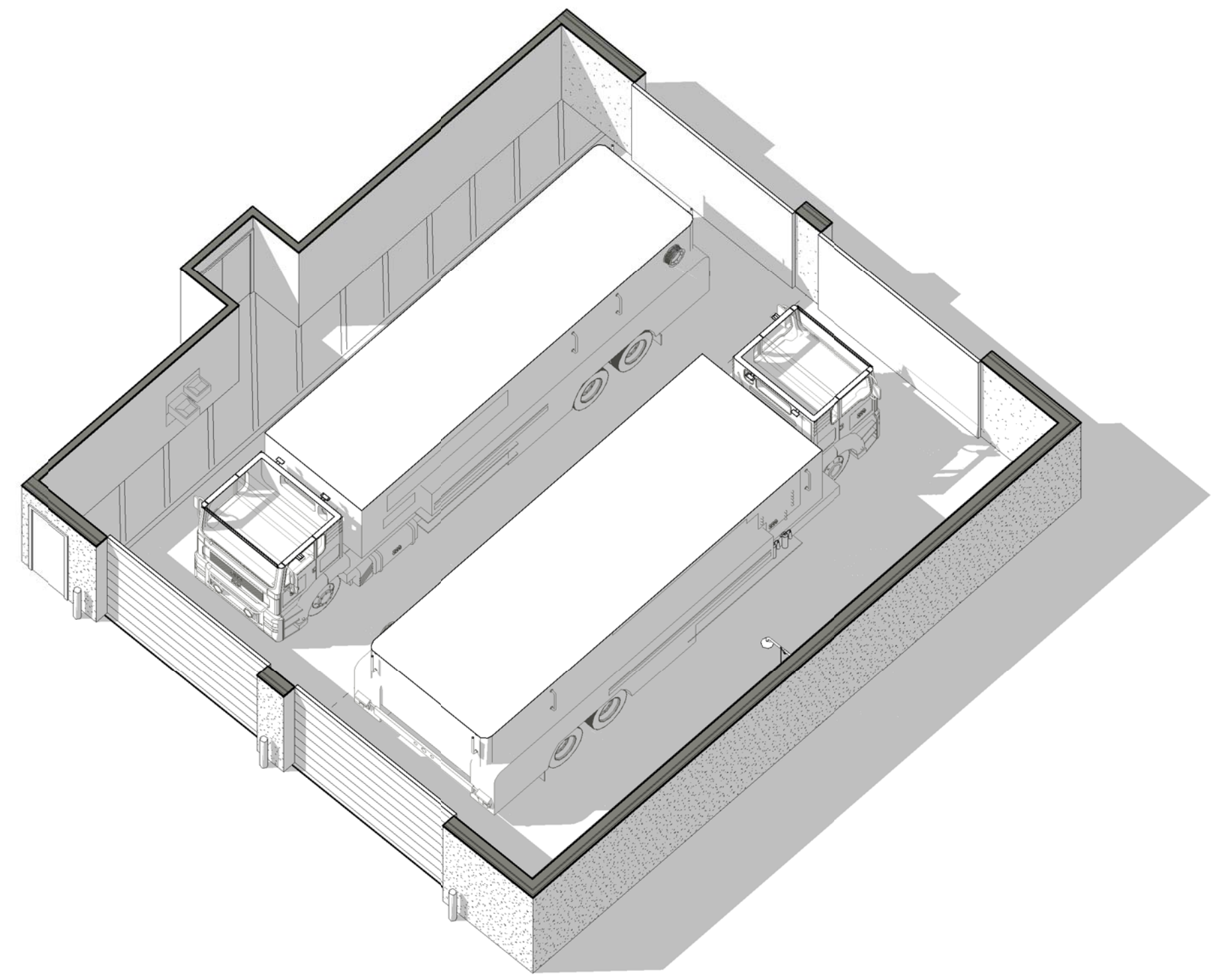
	2 X 2 ACOUSTICAL TILE		SPOT ELEVATION MARKER
	GYPSUM BOARD		RECESSED CAN LIGHT
	2'X4' LIGHT		CEILING FAN
	2'X2' LIGHT		SMALL PENDANT LIGHT
	2'X2' SUPPLY DIFFUSER		LOW BAY LIGHTING
	PENDANT LIGHT		OPEN TO STRUCTURE



1 APPARATUS BAY - FLOOR PLAN
1/8" = 1'-0"



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



3 APPARATUS BAY - AXON

17/2014 3:11:17 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: KLV
Checked By: JW
MO203

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 SUPPORT NOTES

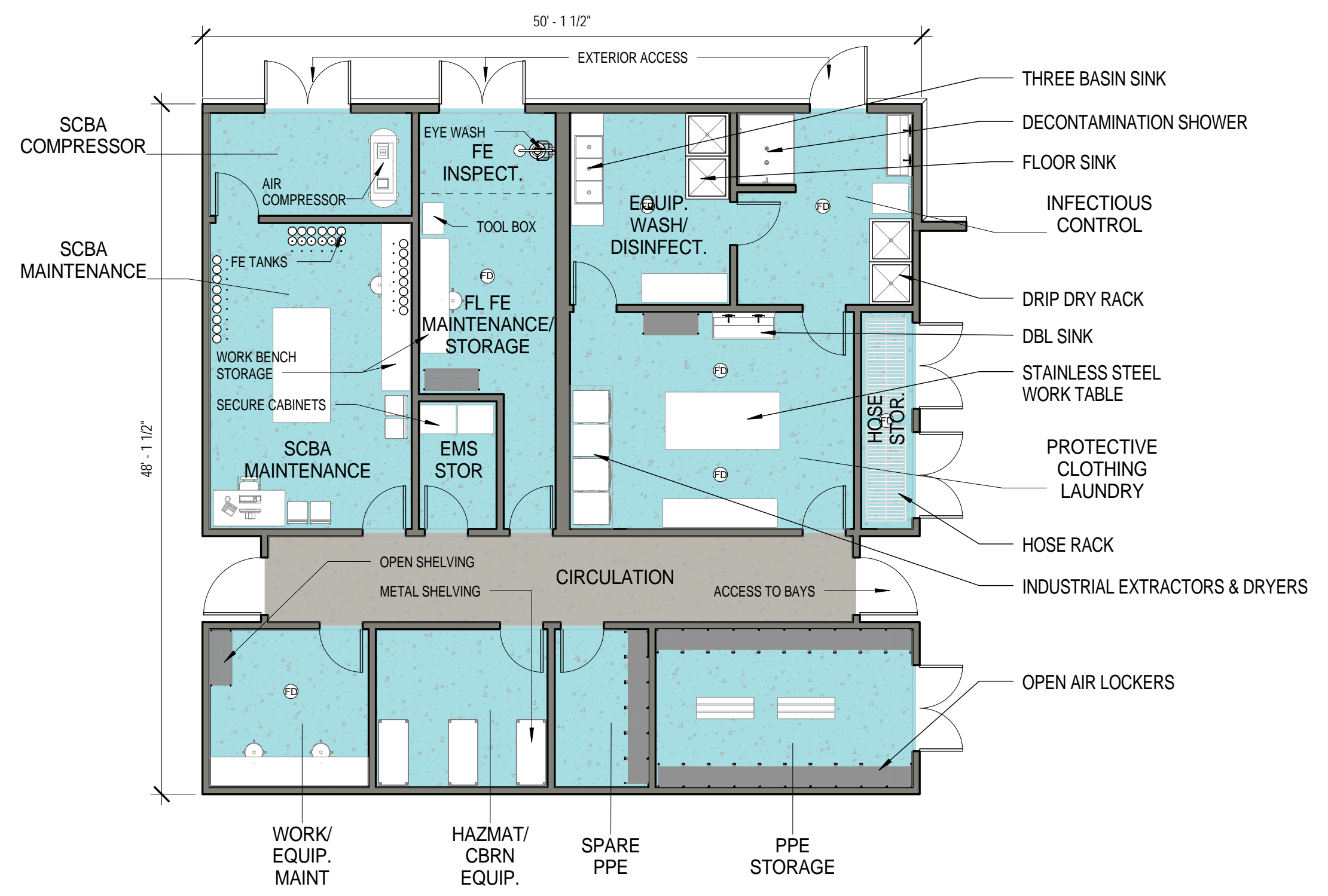
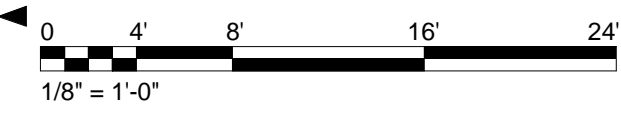
1. ALL CEILINGS ARE A MIN. OF 9'-0" UNLESS OTHERWISE NOTED.
2. ADJACENCIES BETWEEN INFECTIOUS CONTROL, EQUIPMENT WASH AND DISINFECTION, AND PROTECTIVE CLOTHING LAUNDRY SHOULD BE MAINTAINED. INFECTIOUS CONTROL REQUIRES DIRECT ACCESS TO EXTERIOR AND APPARATUS BAYS.
3. ARFF FACILITIES REQUIRE EXTERIOR COVERED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

FLOOR FINISH LEGEND

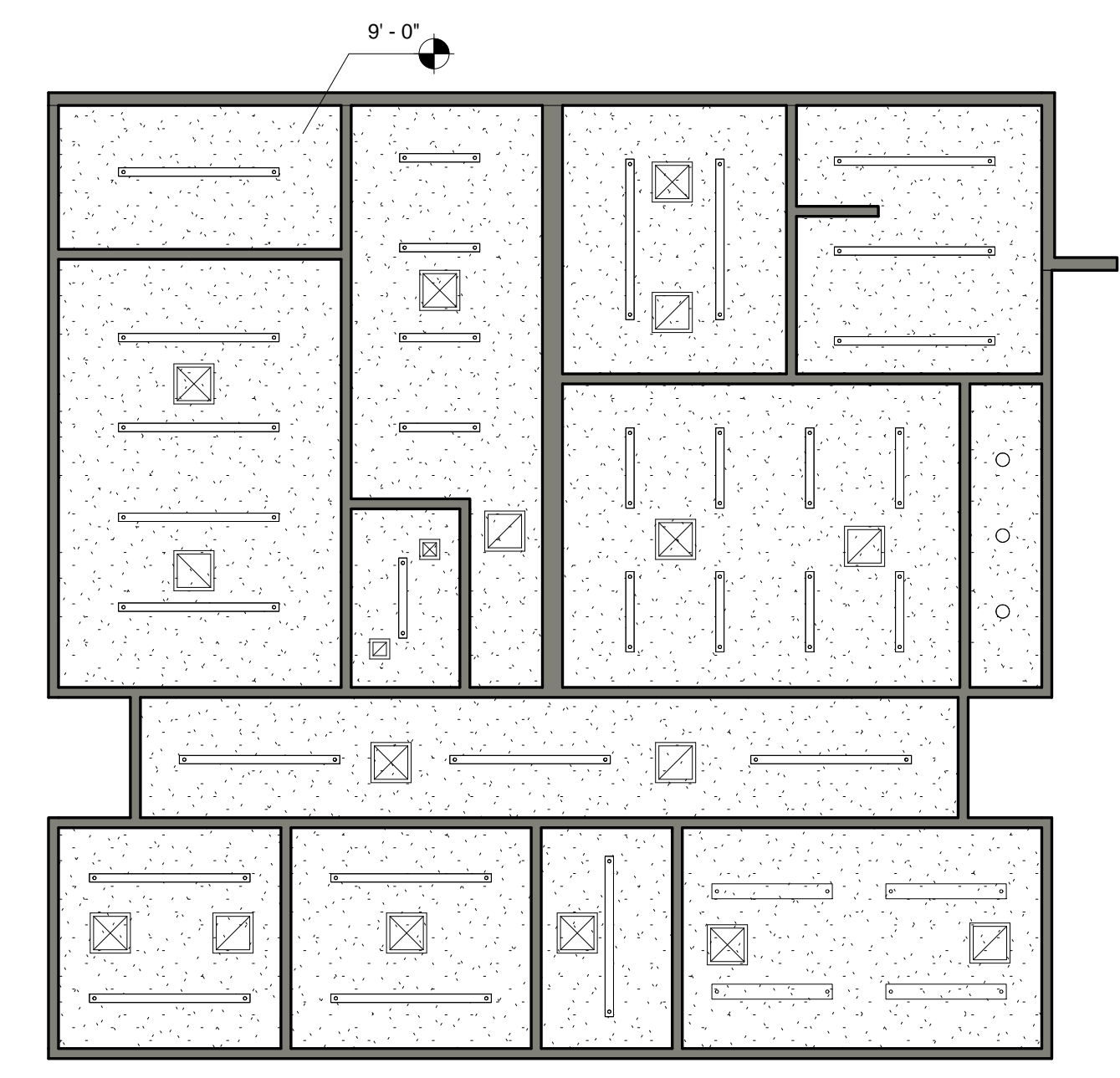
	SEALED CONCRETE
	CARPET
	CERAMIC TILE
	RUBBER SHEET
	FLOOR DRAIN
	HOSE BIB

CEILING LEGEND

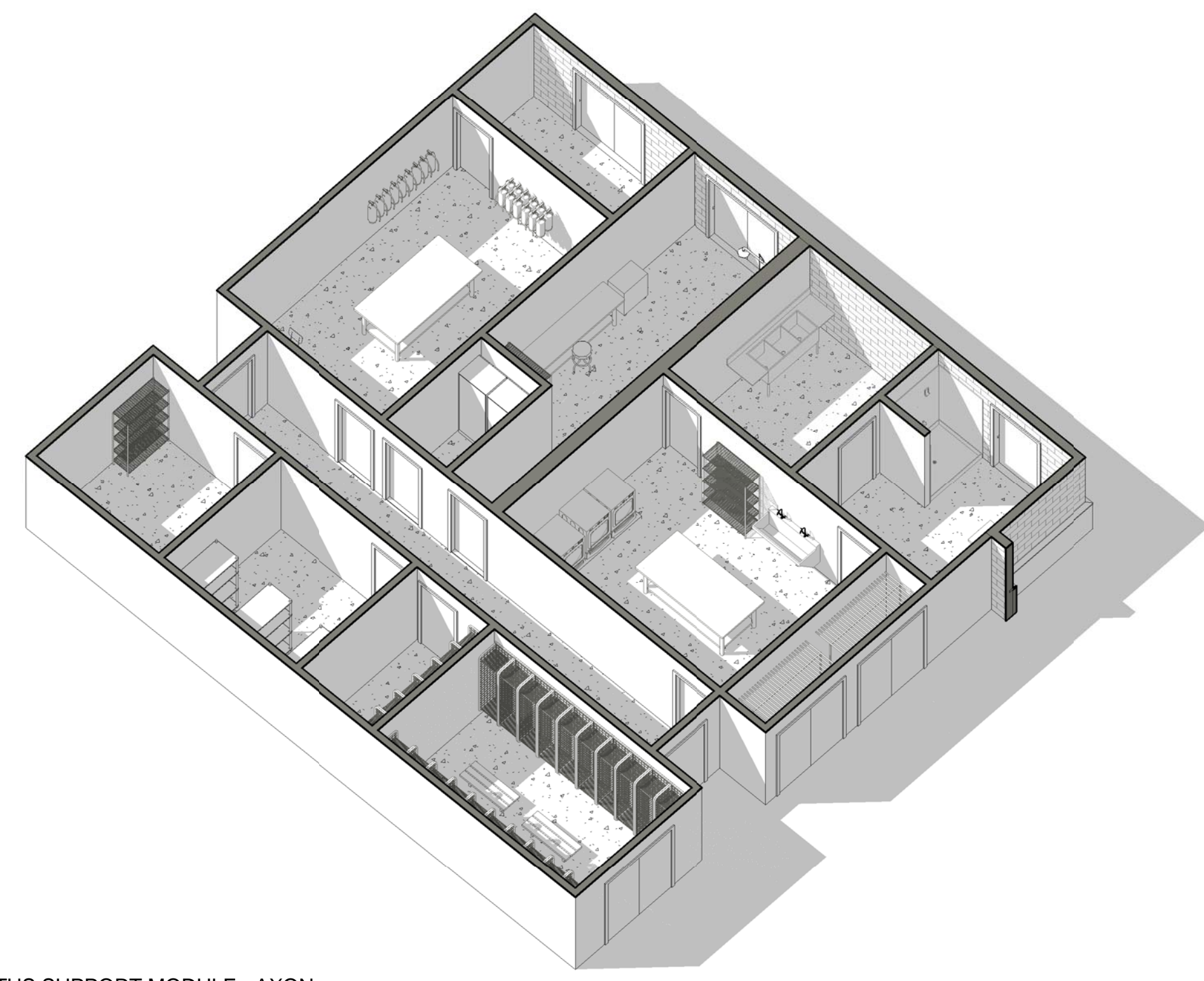
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	GYPSUM BOARD		RECESSED CAN LIGHT
	2X4' LIGHT		CEILING FAN
	2X2' LIGHT		SMALL PENDANT LIGHT
	2X2' SUPPLY DIFFUSER		LOW BAY LIGHTING
	PENDANT LIGHT		OPEN TO STRUCTURE



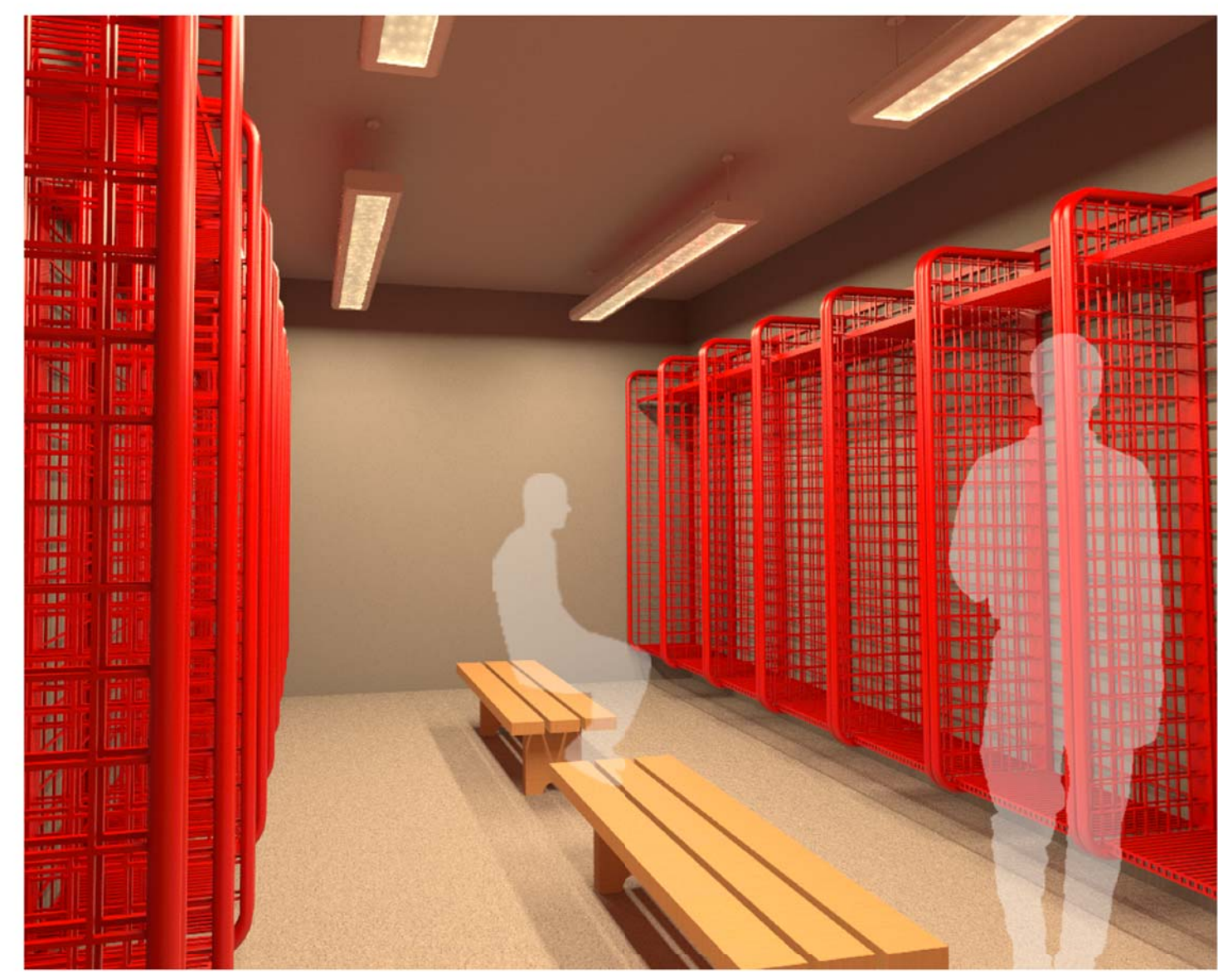
① APPARATUS SUPPORT MODULE - FLOOR PLAN
1/8" = 1'-0"



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



③ APPARATUS SUPPORT MODULE - AXON



PPE GEAR STORAGE ROOM

17/2014 3:12:04 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

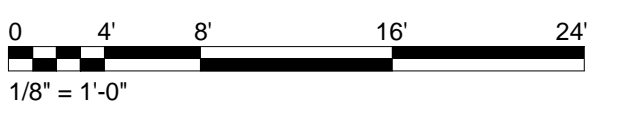
- SEALED CONCRETE
- CARPET
- CERAMIC TILE
- RUBBER SHEET
- FLOOR DRAIN
- HOSE BIB

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
SATELLITE**



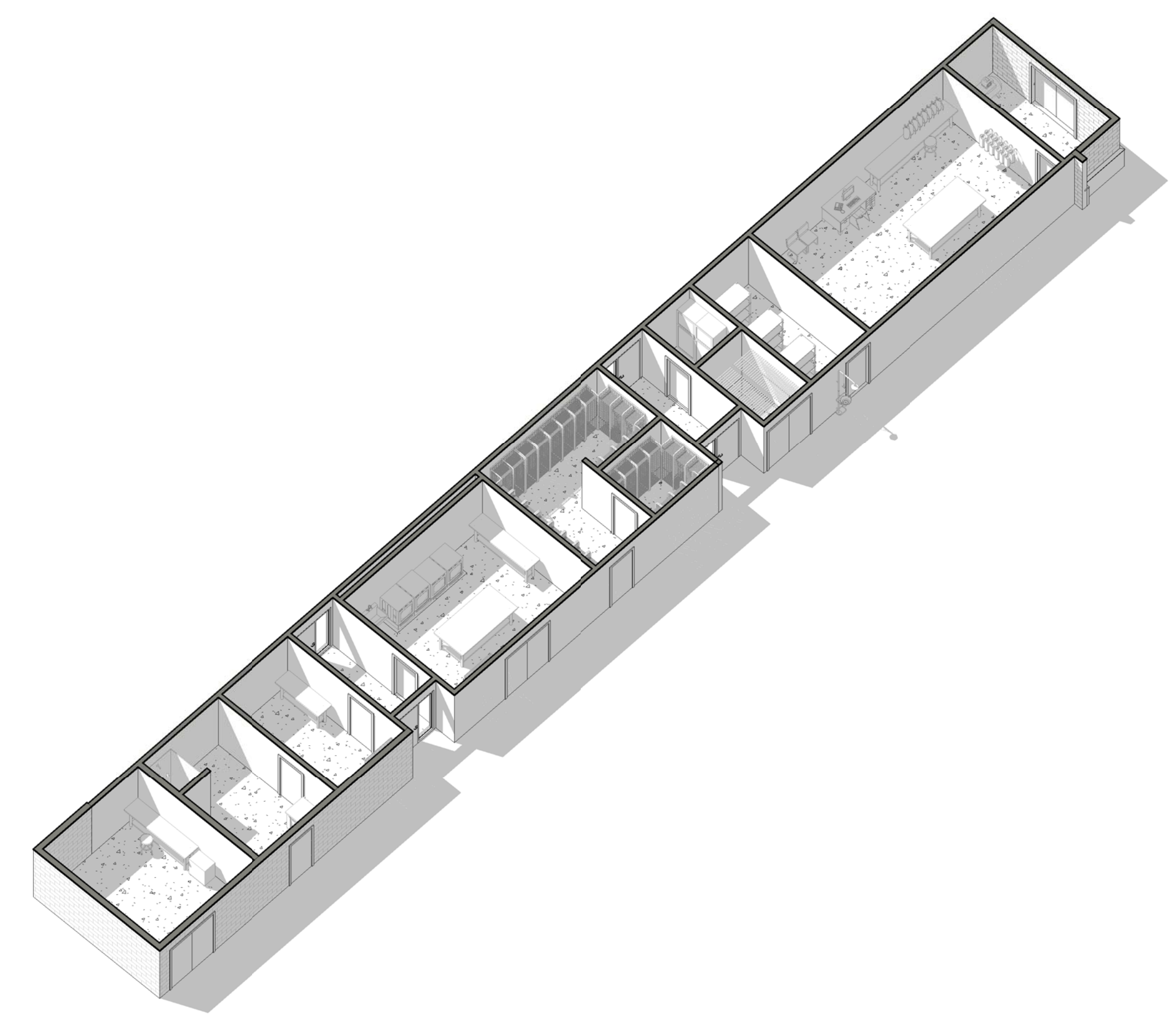
Jacobs Project No.: FDYD3106

Drawing Title:
**MODULE - APPARATUS
SUPPORT - LINEAR**

Date: DECEMBER 2013

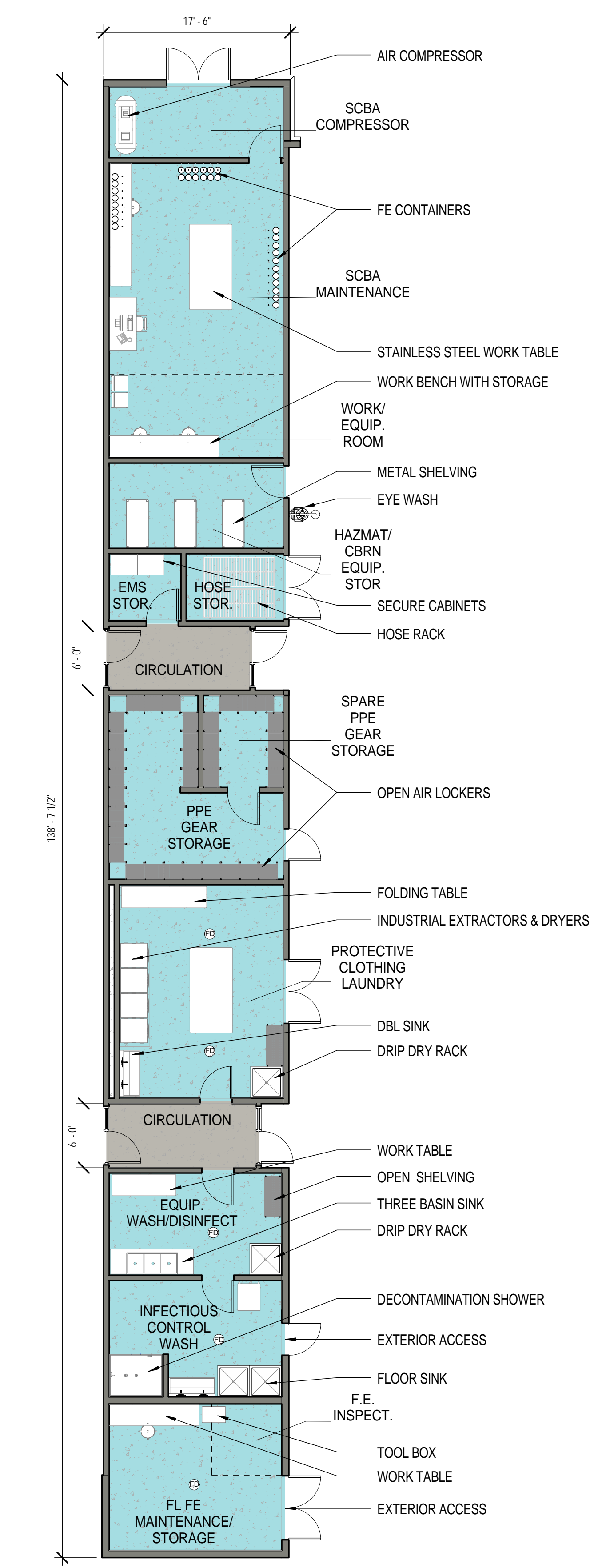
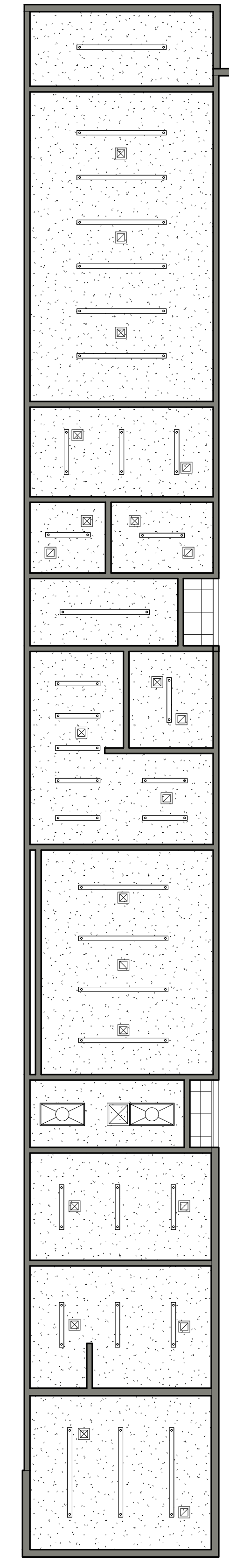
Designed By: LEG
Drawn By: KLV
Checked By: JW

MO205



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"

17/2014 3:12:49 PM
SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

GENERAL NOTES

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AGENT STORAGE NOTES

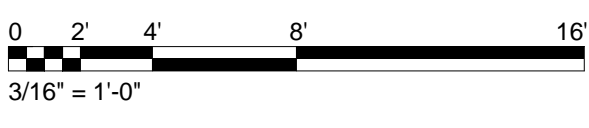
1. QUANTITY OF AGENT STORAGE TO BE DETERMINED BY USER & MISSION CRITICAL REQUIREMENTS.

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
	2X4' LIGHT		CEILING FAN
	2X2' LIGHT		SMALL PENDANT LIGHT
	2X2' SUPPLY DIFFUSER		LOW BAY LIGHTING
	PENDANT LIGHT		OPEN TO STRUCTURE

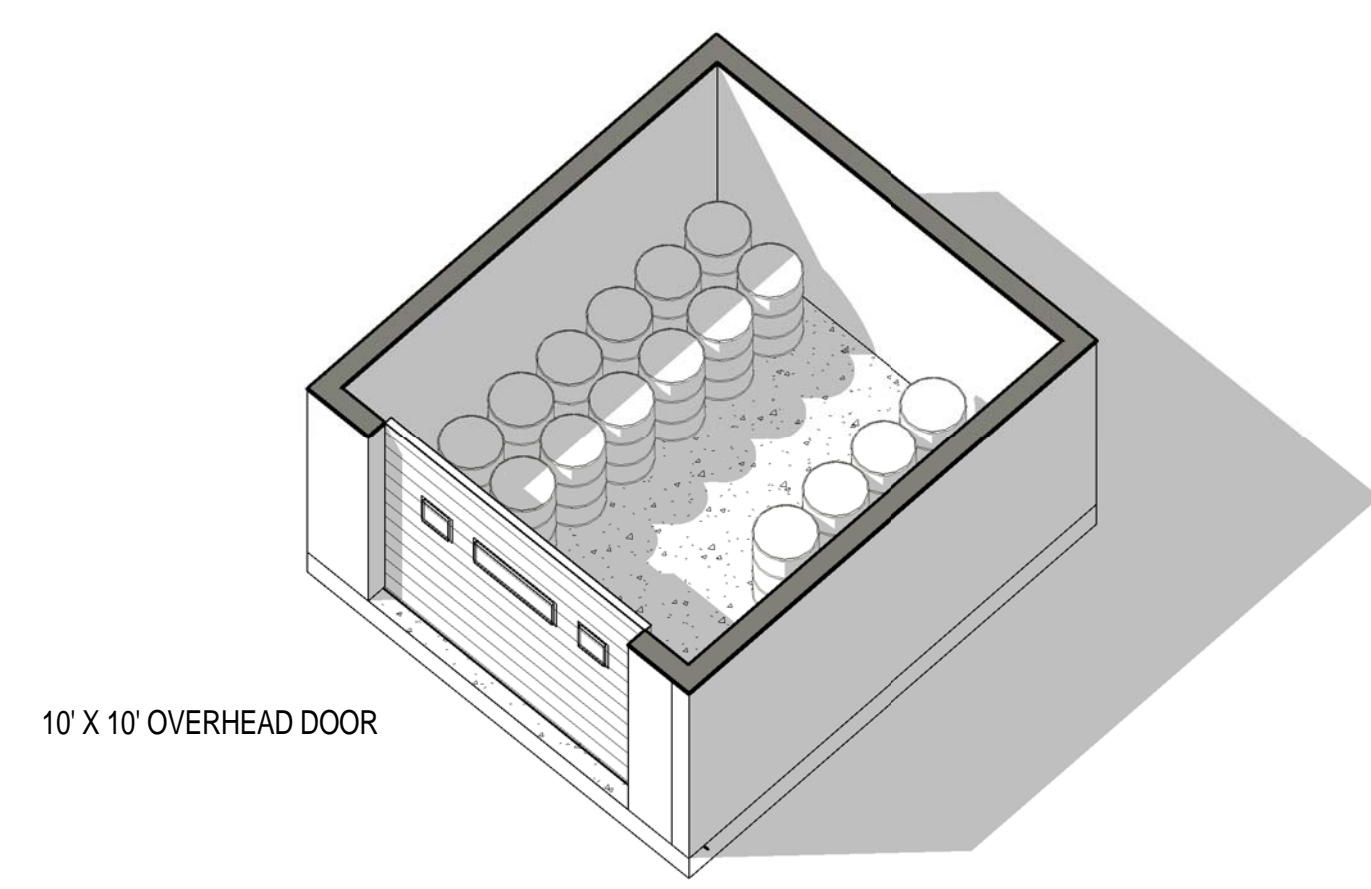


Jacobs Project No.: FDYD3106

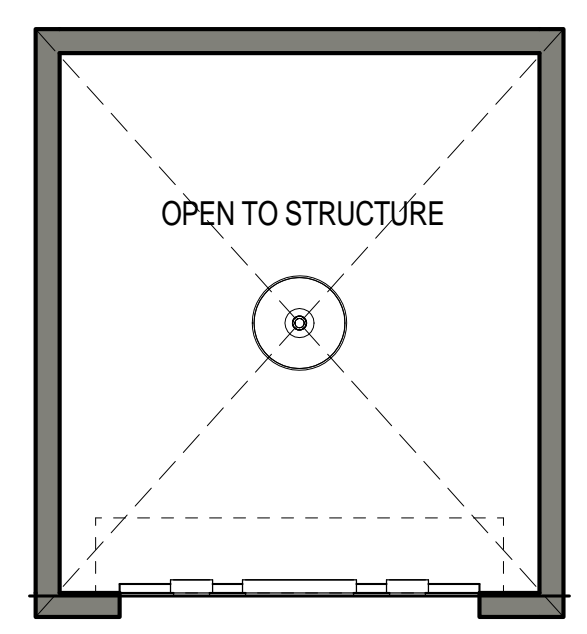
Drawing Title:
MODULE - BUILDING SUPPORT

Date: DECEMBER 2013

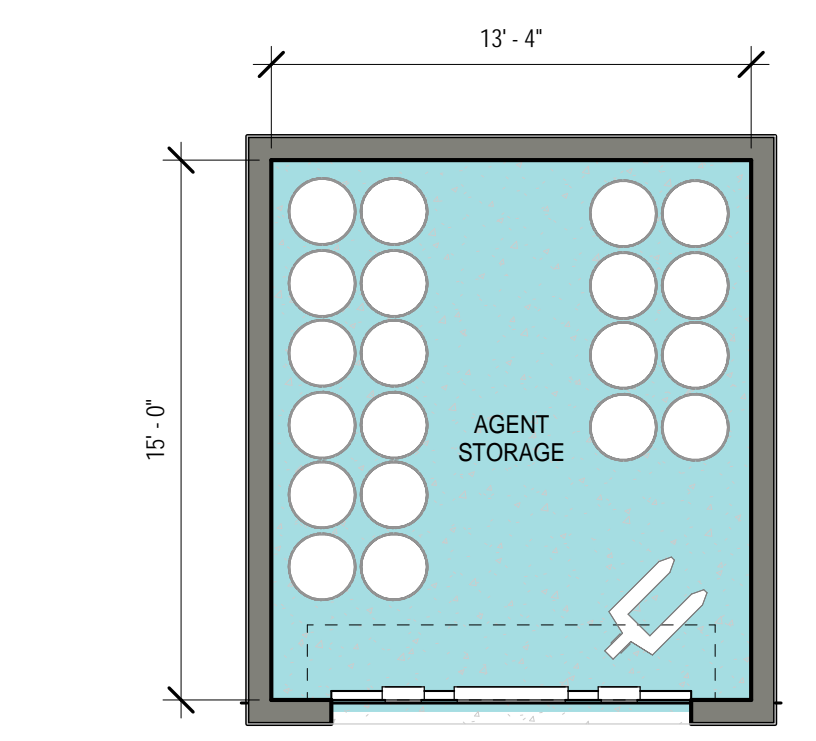
Designed By: LEG
Drawing No.:
Drawn By: KIW
Checked By: JW
MO206



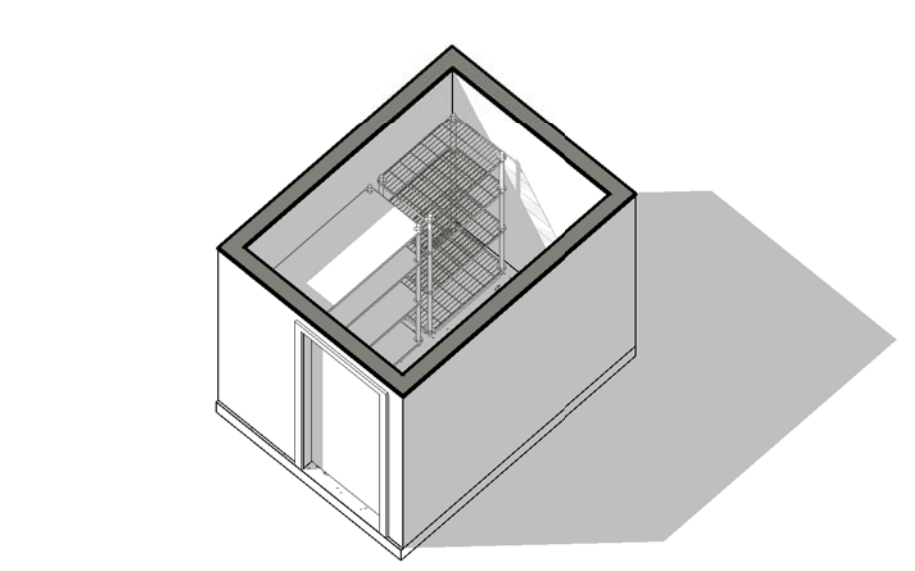
3 SATELLITE AGENT STORAGE MODULE - AXON



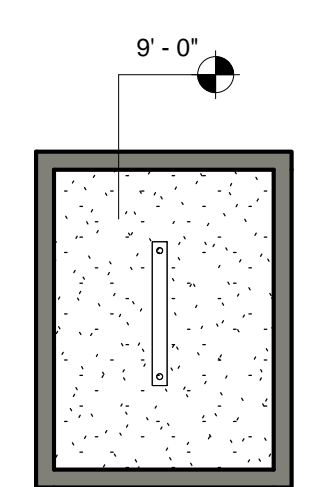
2 SATELLITE AGENT STORAGE MODULE - REFLECTED CEILING PLAN
3/16" = 1'-0"



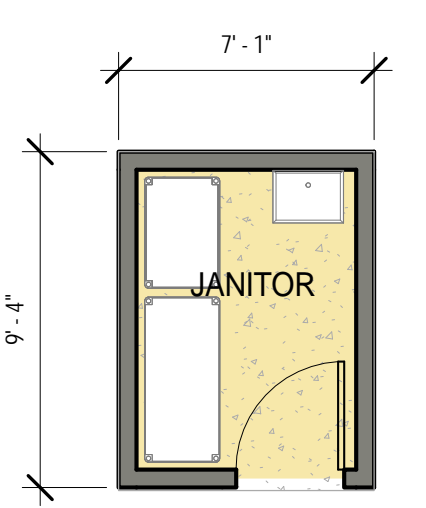
1 SATELLITE AGENT STORAGE MODULE - FLOOR PLAN
3/16" = 1'-0"



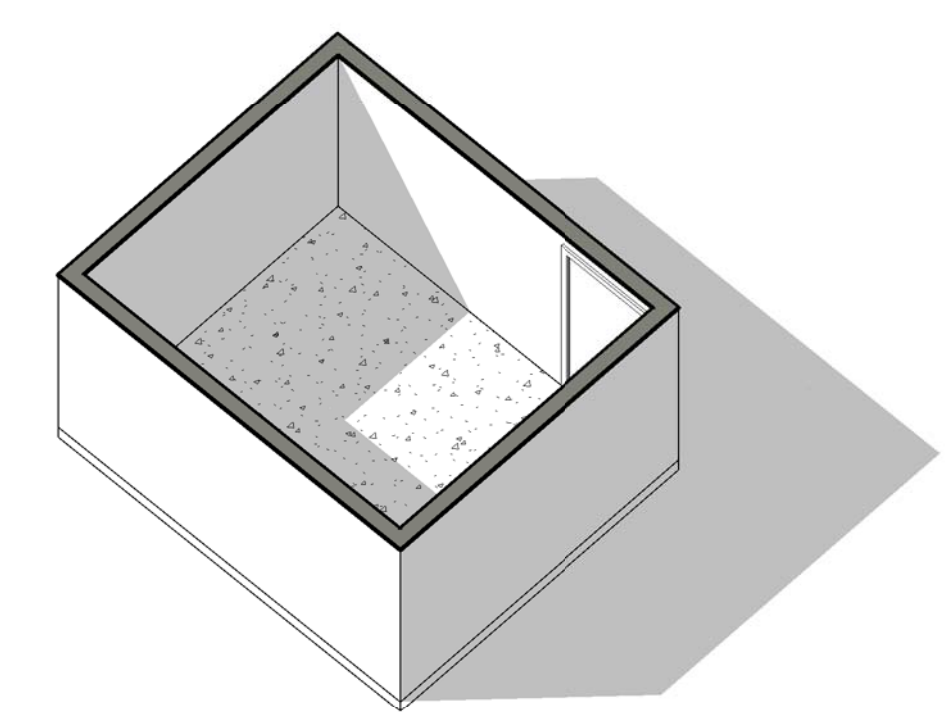
6 JANITOR - AXON



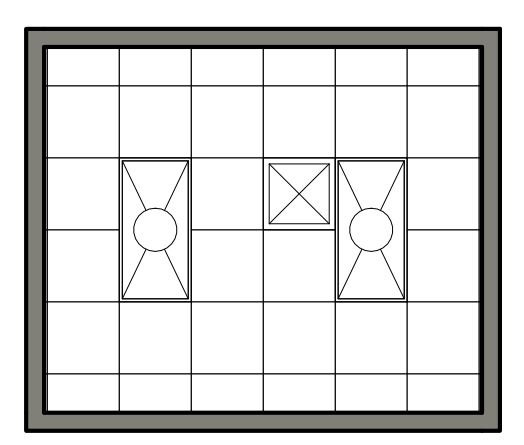
5 JANITOR - REFLECTED CEILING PLAN
3/16" = 1'-0"



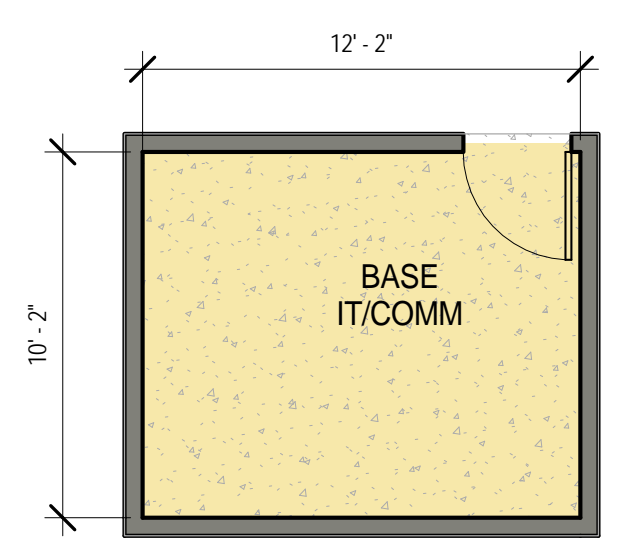
4 JANITOR - FLOOR PLAN
3/16" = 1'-0"



9 BASE IT/COMM - AXON



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



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

17/2014 3:13:15 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
- 2X4' LIGHT
- 2X2' LIGHT
- 2X2' SUPPLY DIFFUSER
- PENDANT LIGHT
- SPOT ELEVATION MARKER
- RECESSED CAN LIGHT
- CEILING FAN
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AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:

**FIRE STATION
SATELLITE**

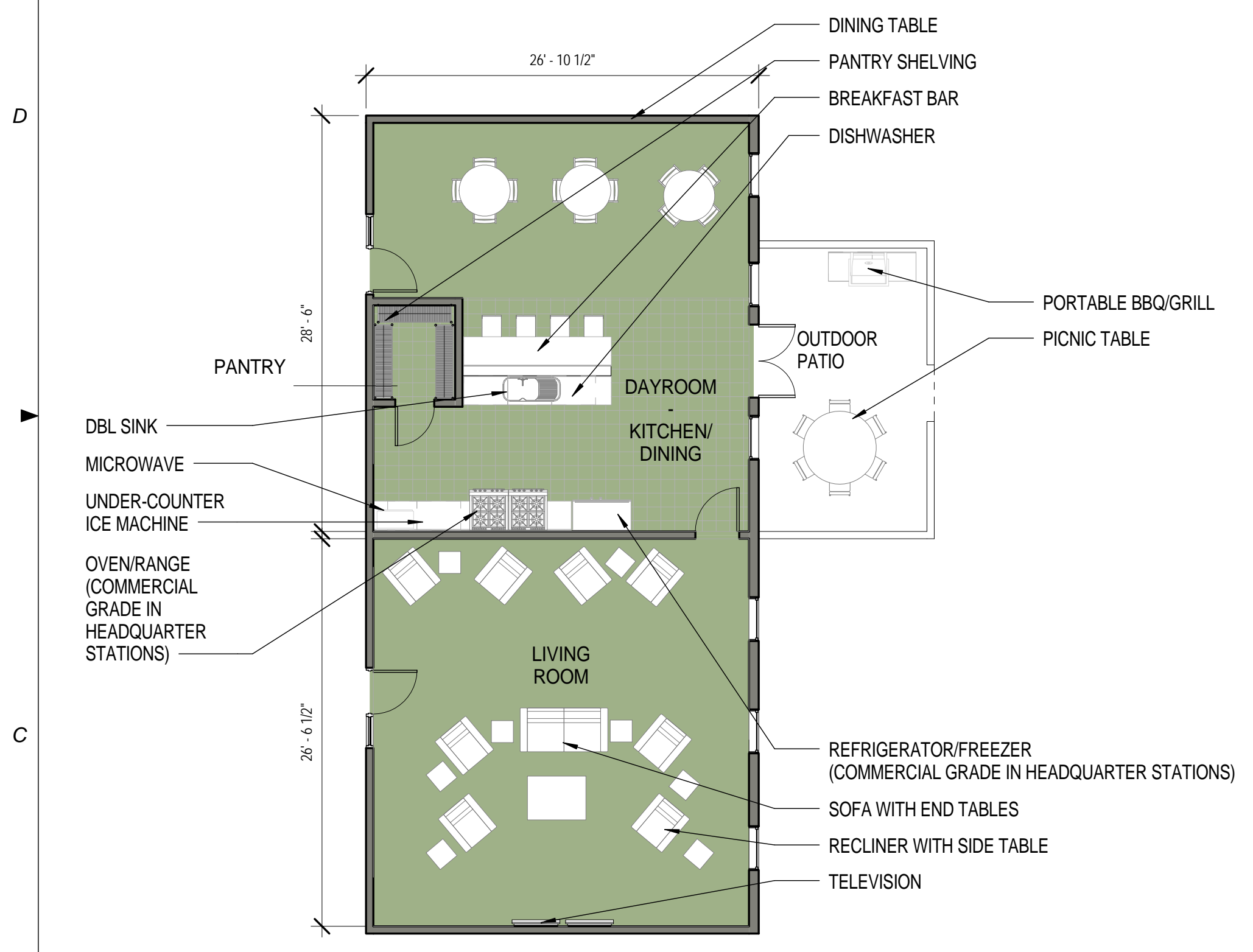


Jacobs Project No.: FDYD3106

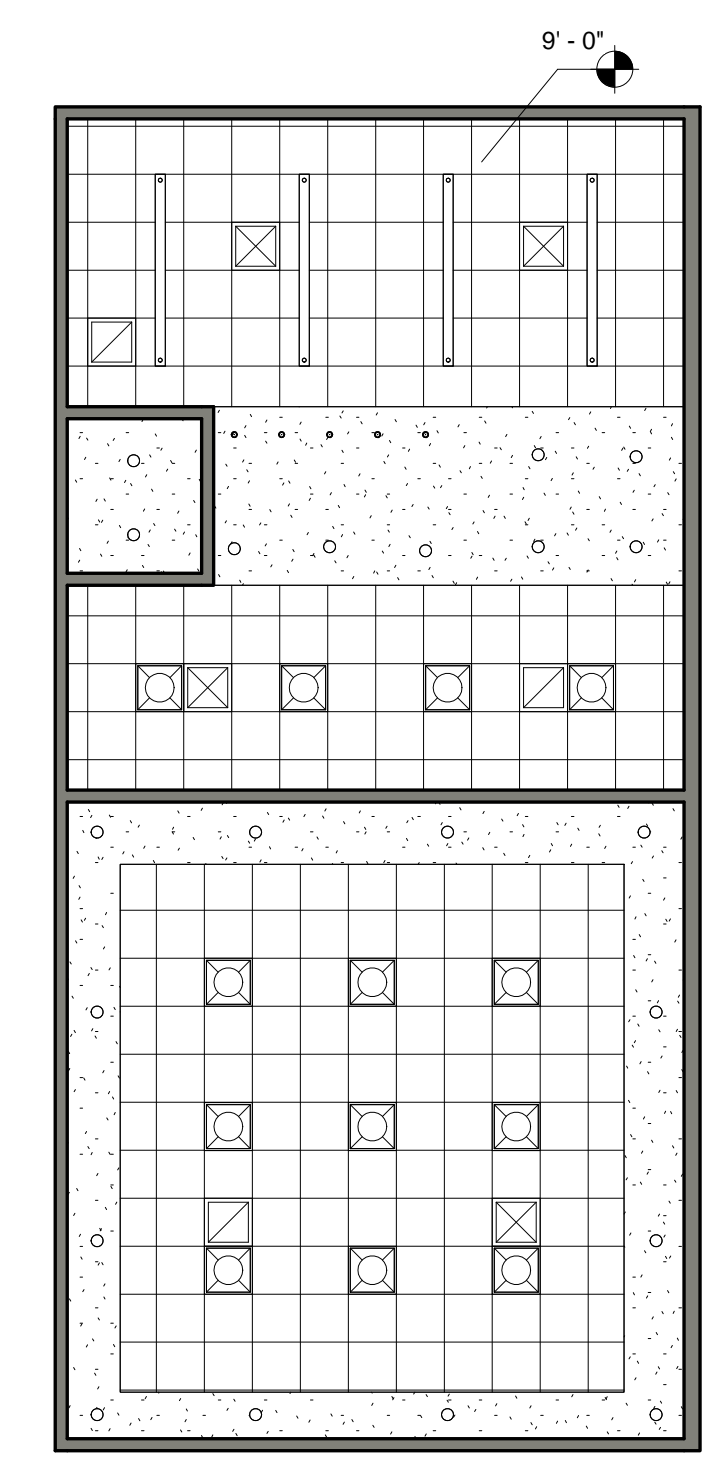
Drawing Title:
MODULE - RESIDENTIAL - DAY ROOM

Date: DECEMBER 2013

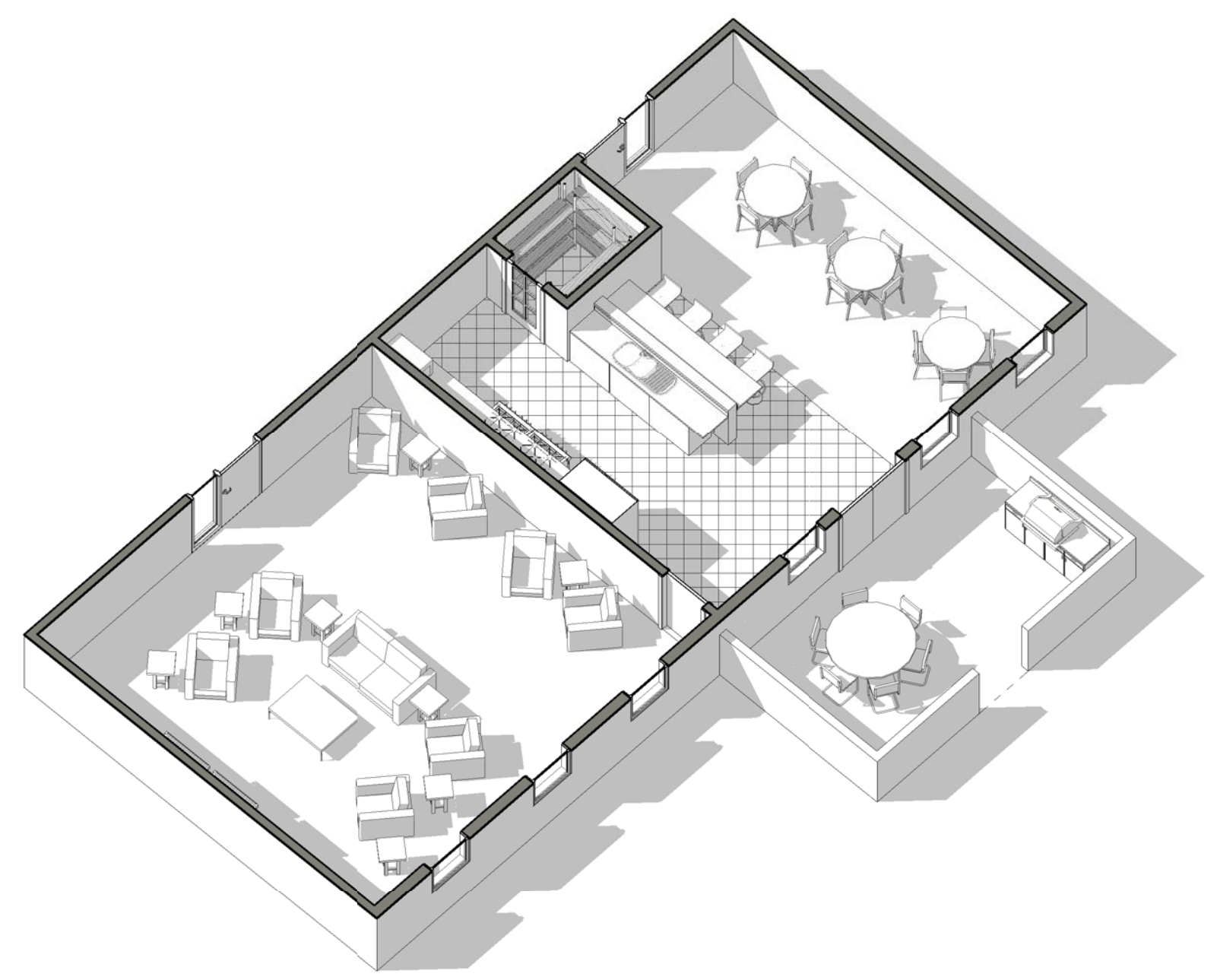
Designed By: LEG
Drawing No.:
Drawn By: KIW
Checked By: JW
MO207



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 - AXON



DAY ROOM - KITCHEN

17/2014 3:13:31 PM
SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

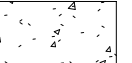
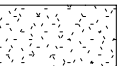
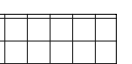
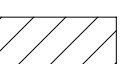


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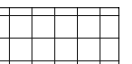

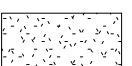


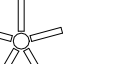




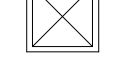
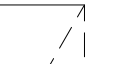
RESTROOM NOTES

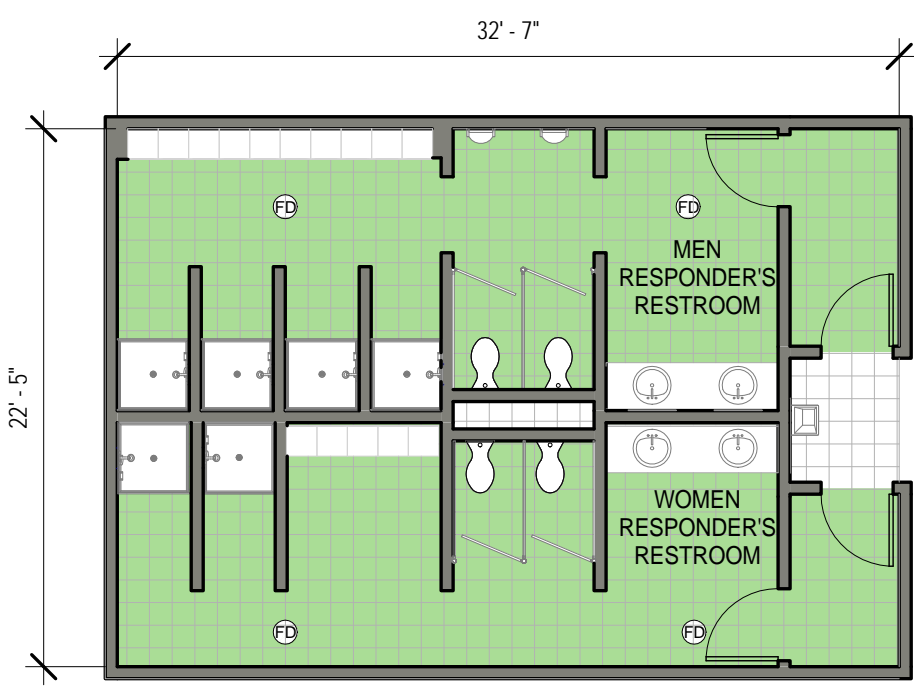
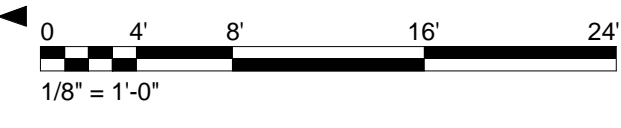
1. CONSULT WITH USER AND LOCAL CODES FOR FINAL FIXTURE COUNTS IN RESPONDER RESTROOM. CONSIDER THE HEAVY, CONCENTRATED USAGE OF FACILITY AFTER A CALL.

FLOOR FINISH LEGEND

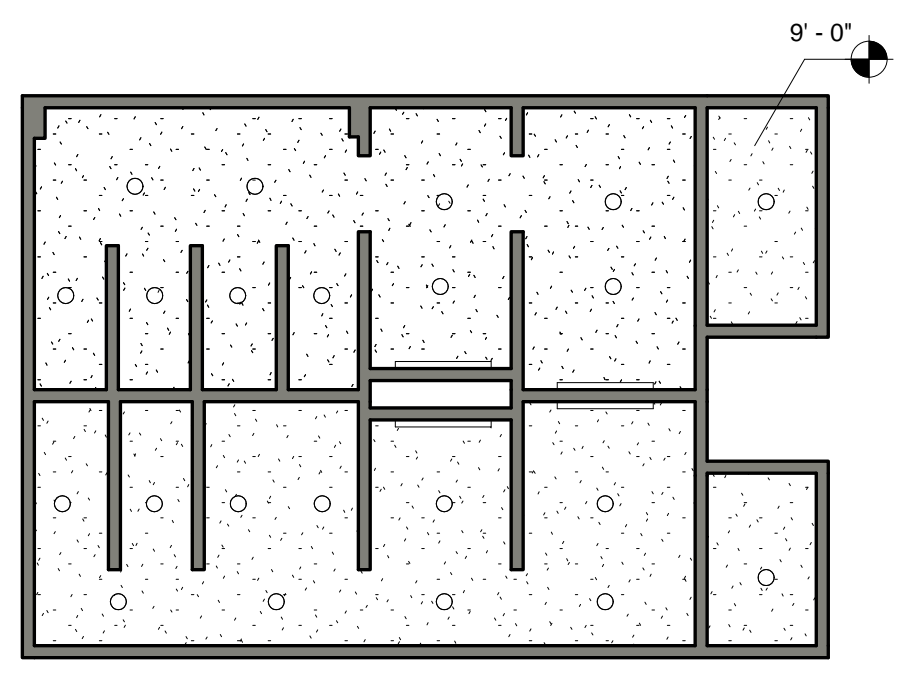
	SEALED CONCRETE
	CARPET
	CERAMIC TILE
	RUBBER SHEET
	FLOOR DRAIN
	HOSE BIB

CEILING LEGEND

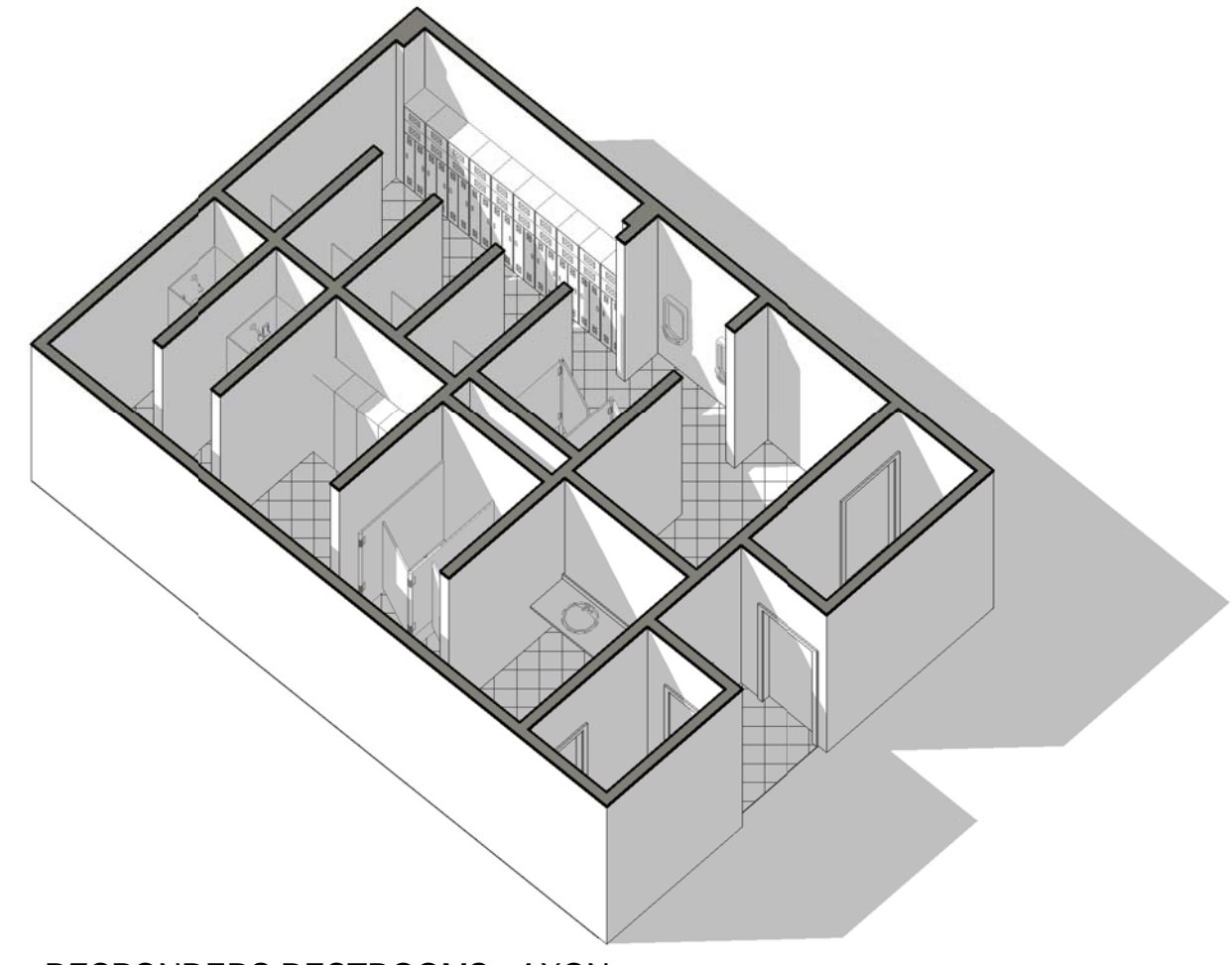
	2 X 2 ACOUSTICAL TILE		SPOT ELEVATION MARKER
	GYPSUM BOARD		RECESSED CAN LIGHT
	2'X4' LIGHT		CEILING FAN
	2'X2' LIGHT		SMALL PENDANT LIGHT
	2'X2' SUPPLY DIFFUSER		LOW BAY LIGHTING
	PENDANT LIGHT		OPEN TO STRUCTURE



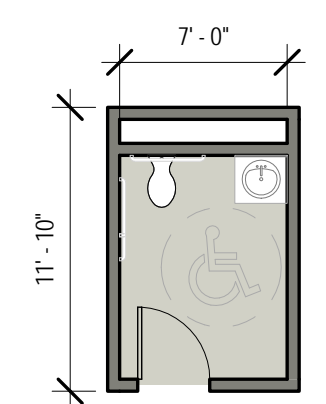
1 RESPONDERS RESTROOMS - FLOOR PLAN
1/8" = 1'-0"



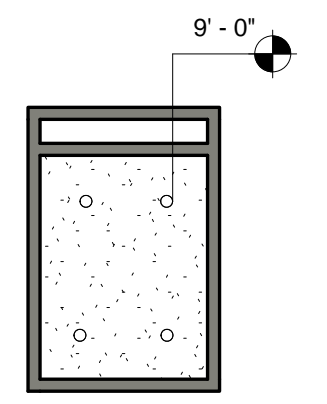
2 RESPONDERS RESTROOMS - REFLECTED CEILING PLAN
1/8" = 1'-0"



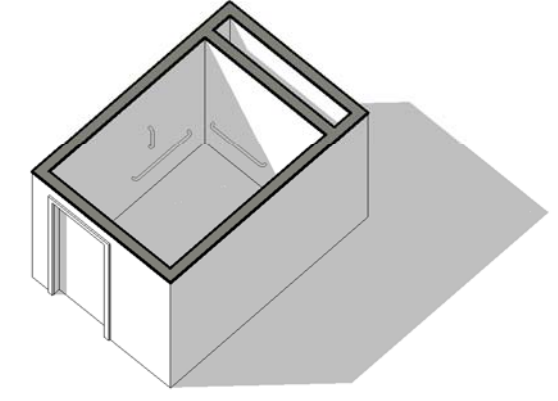
3 RESPONDERS RESTROOMS - AXON



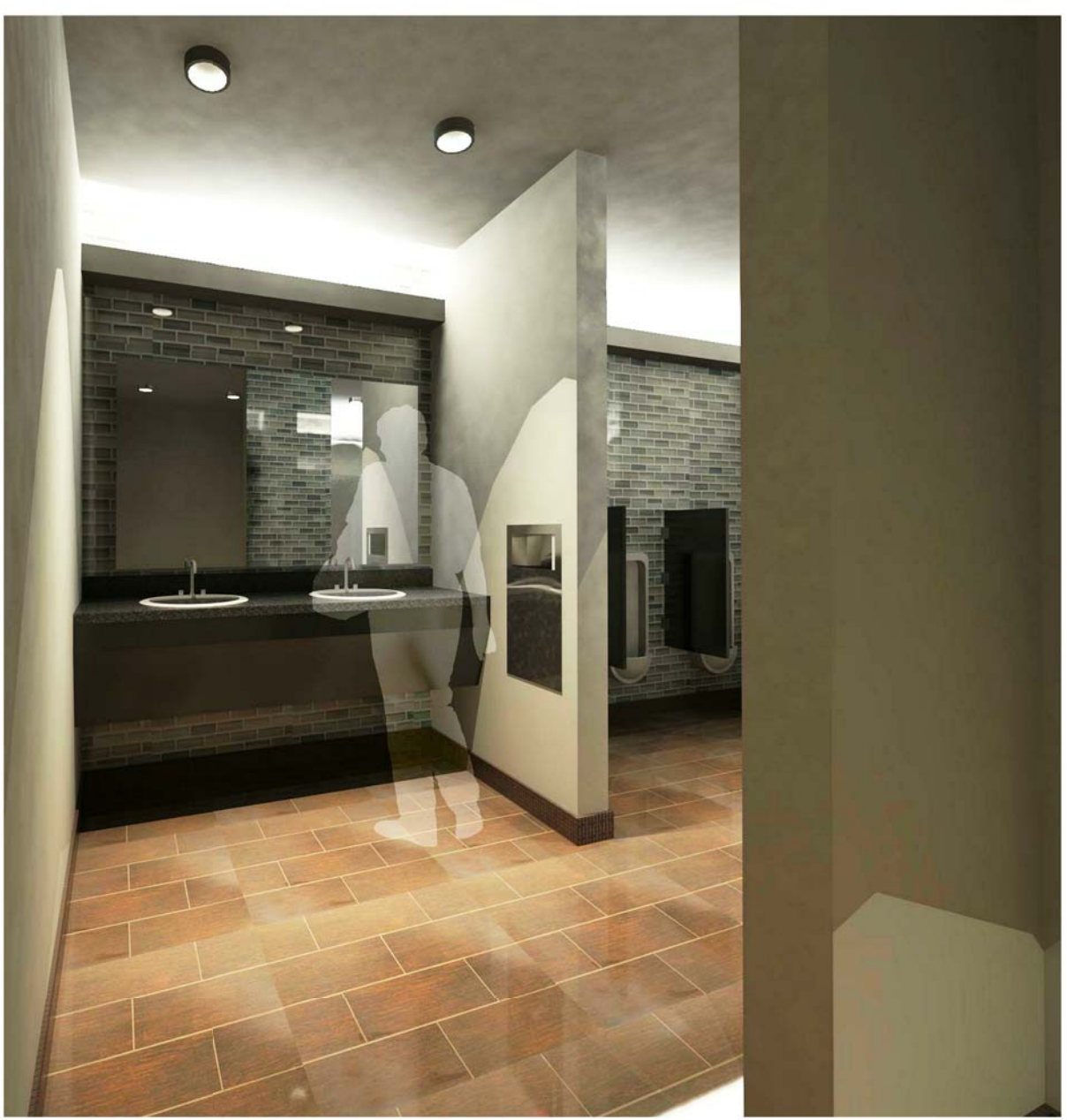
4 ADMINISTRATION RESTROOMS - FLOOR PLAN
1/8" = 1'-0"



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



6 ADMINISTRATION RESTROOMS - AXON



RESPONDER RESTROOM



RESPONDER RESTROOM - LOCKER RM

1/7/2014 3:13:57 PM
SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

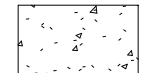
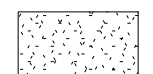
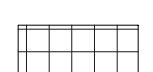



GENERAL NOTES

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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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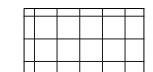
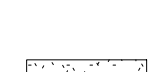
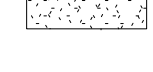
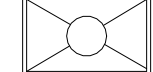


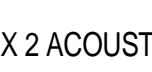





DORM ROOM NOTES

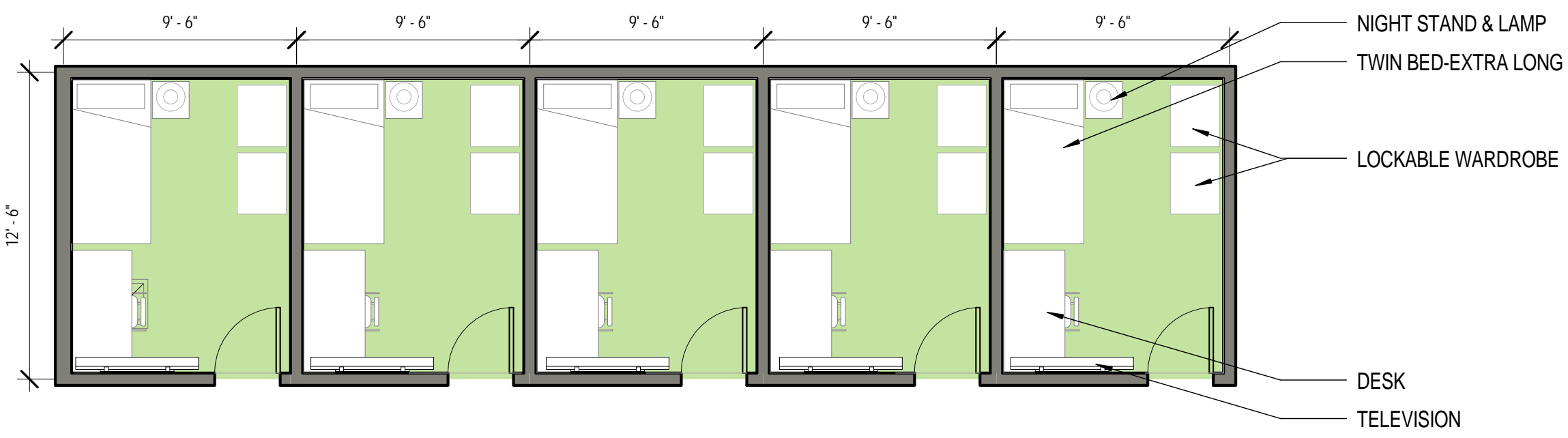
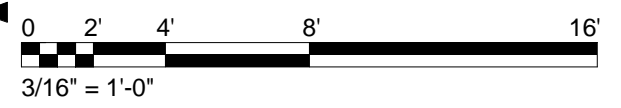
1. BED IS SHARED BETWEEN TWO SHIFTS, WITH LINENS REPLACED AFTER EACH SHIFT.
2. EACH FIREFIGHTER HAS HIS/HER OWN LOCKABLE WARDROBE.
3. NUMBER OF DORMS DEPENDANT UPON NUMBER OF RESPONDERS ON DUTY. INCLUDE DORM FOR STATION OFFICER. STATION OFFICER'S OFFICE SHOULD HAVE DIRECT ACCESS TO DORM WHEN POSSIBLE.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

FLOOR FINISH LEGEND

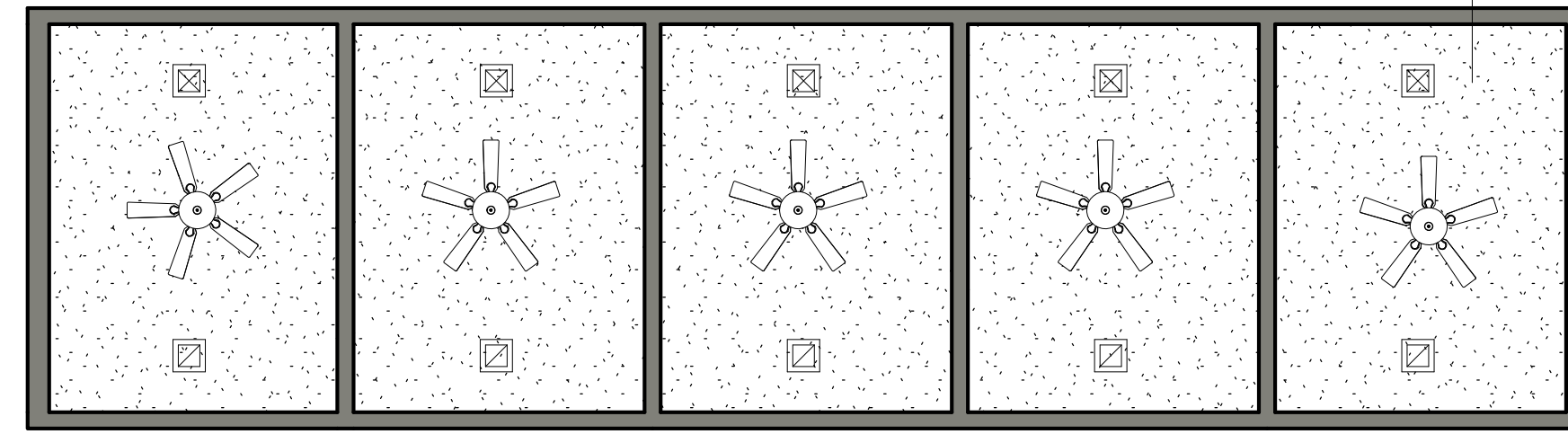
-  SEALED CONCRETE
-  CARPET
-  CERAMIC TILE
-  RUBBER SHEET
-  FLOOR DRAIN
-  HOSE BIB

CEILING LEGEND

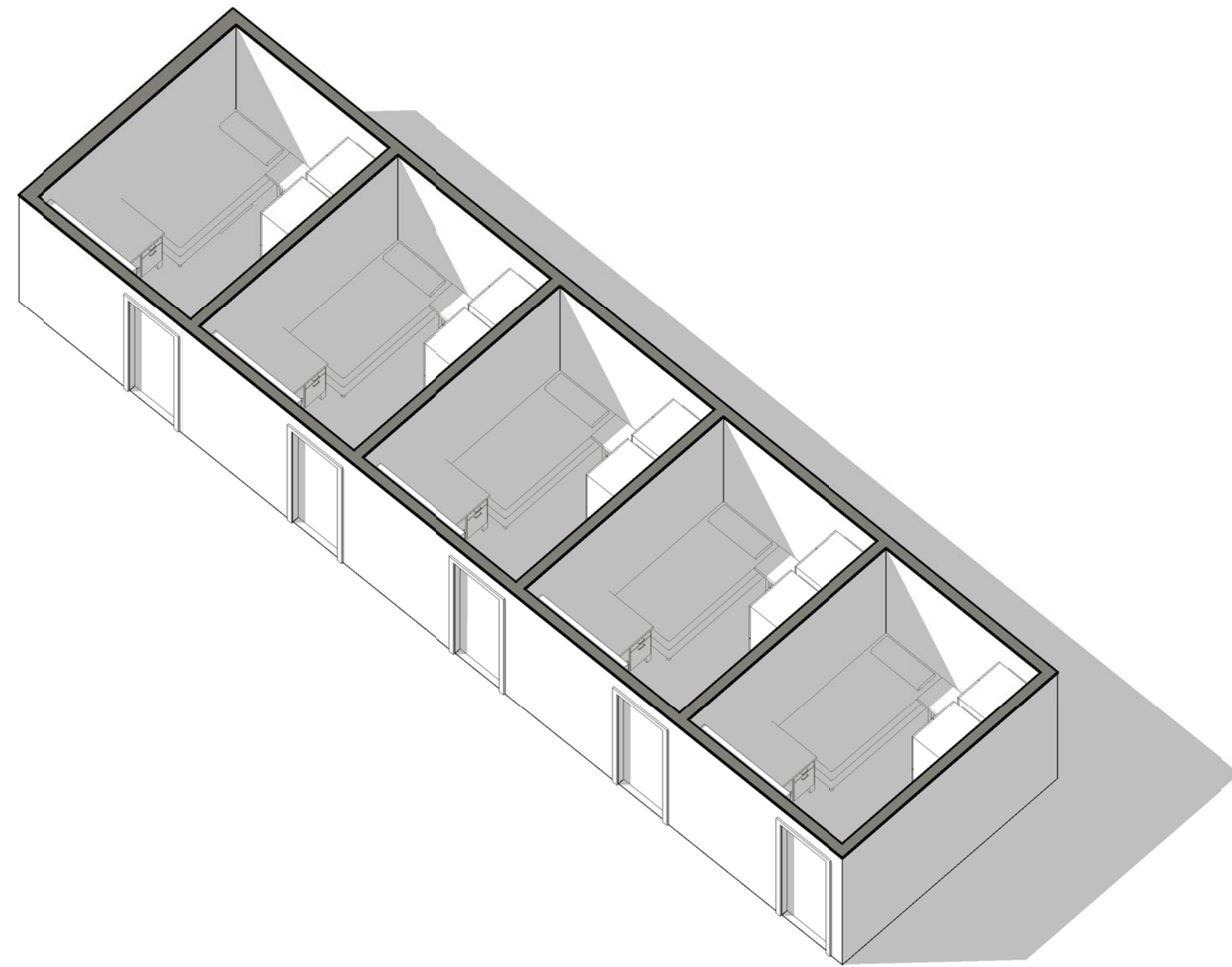
-  2 X 2 ACOUSTICAL TILE
-  GYPSUM BOARD
-  2X4' LIGHT
-  2X2' LIGHT
-  2X2' SUPPLY DIFFUSER
-  PENDANT LIGHT
-  SPOT ELEVATION MARKER
-  RECESSED CAN LIGHT
-  CEILING FAN
-  SMALL PENDANT LIGHT
-  LOW BAY LIGHTING
-  OPEN TO STRUCTURE



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



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



③ DORM ROOM - AXON



RESPONDER DORM ROOM

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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

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

**FIRE STATION
SATELLITE**



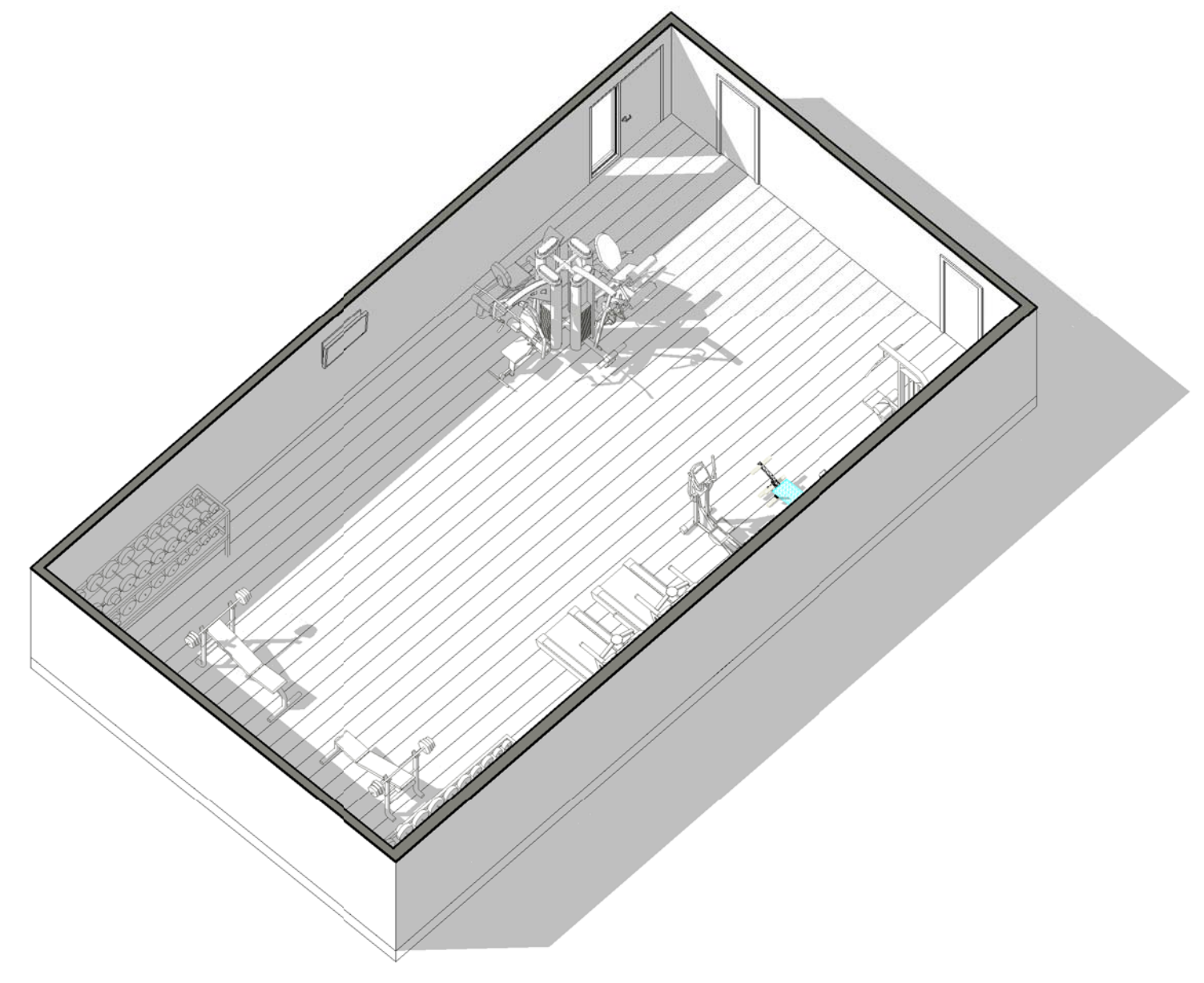
Jacobs Project No.: FDYD3106

Drawing Title:
MODULE - RESIDENTIAL - FITNESS & RECREATION

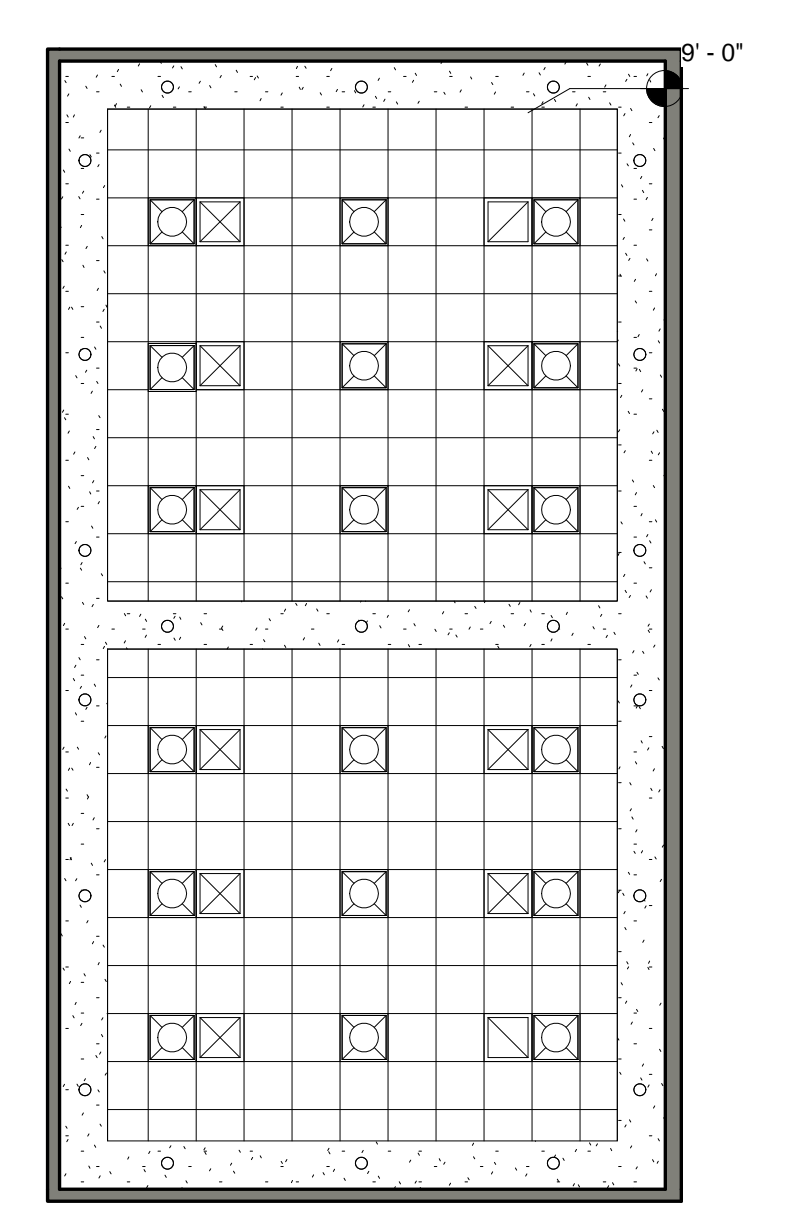
Date: DECEMBER 2013

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

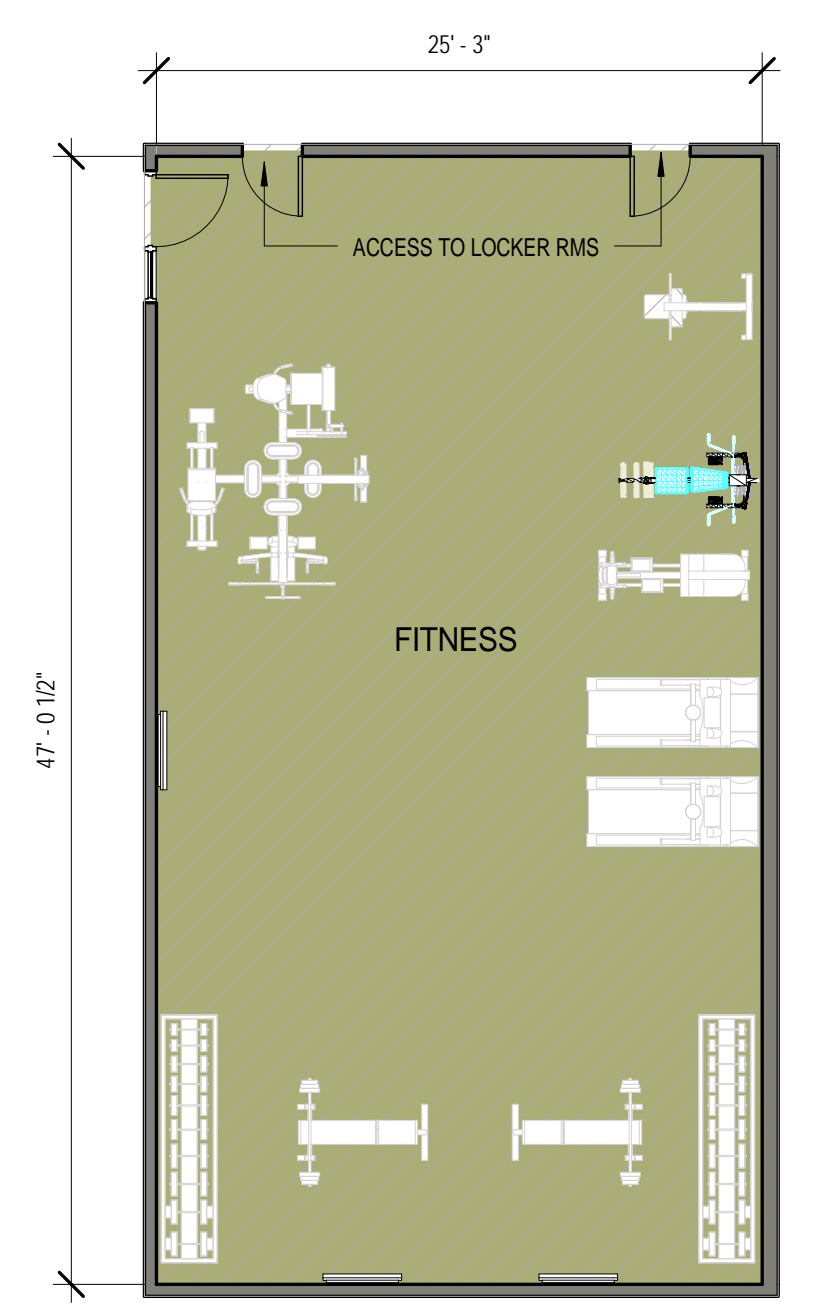
MO210



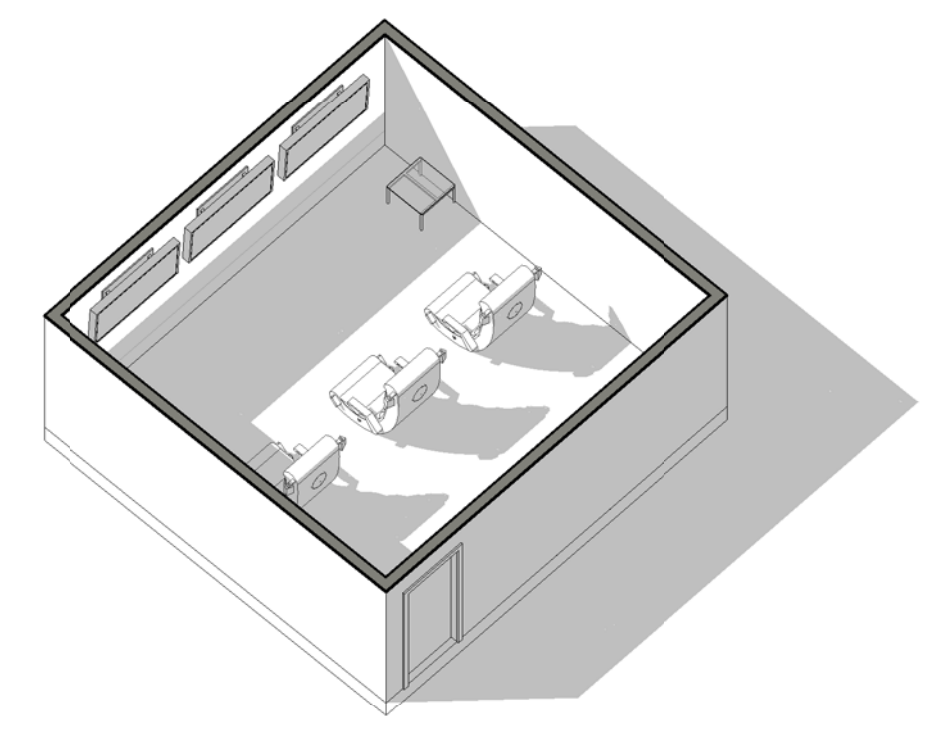
3 FITNESS - AXON



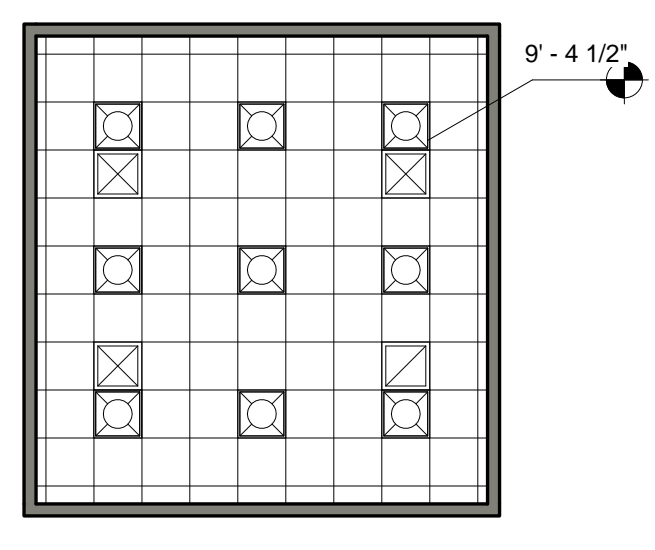
2 FITNESS - REFLECTED CEILING PLAN
1/8" = 1'-0"



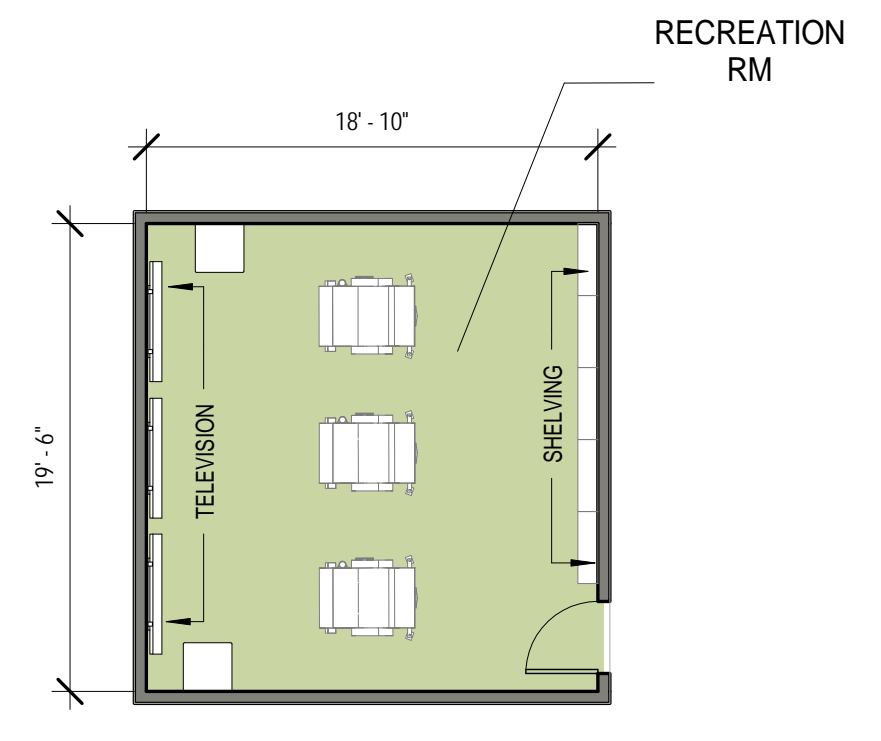
1 FITNESS ROOM - FLOOR PLAN
1/8" = 1'-0"



6 RECREATION ROOM - AXON



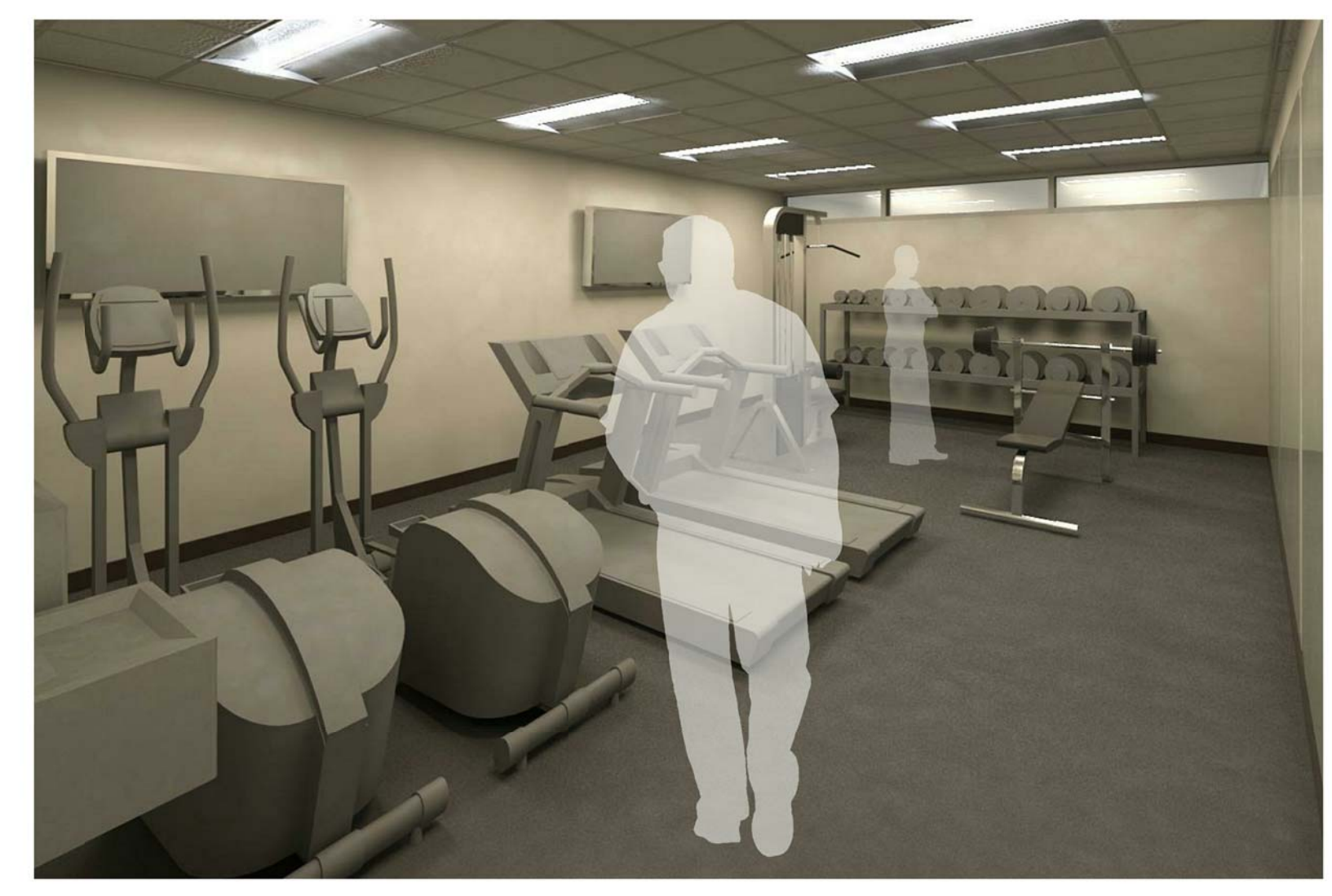
5 RECREATION ROOM - REFLECTED CEILING PLAN
1/8" = 1'-0"



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



RECREATION ROOM



FITNESS ROOM

1/7/2014 3:14:51 PM
 SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

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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

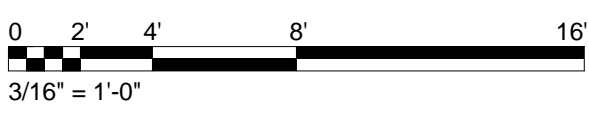
1. PROVIDE LARGE, HEAVY-DUTY, RESIDENTIAL WASHERS AND DRYERS. REFERENCE TABLE 4-27.0 IN THE UFC FOR FIXTURE REQUIREMENTS.
2. LAUNDRY ROOM FOR PERSONAL CLOTHING OF THE FIREFIGHTERS AND OCCASIONAL LAUNDRY FOR COMMON AREAS.

FLOOR FINISH LEGEND

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

CEILING LEGEND

- 2 X 2 ACOUSTICAL TILE
- 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



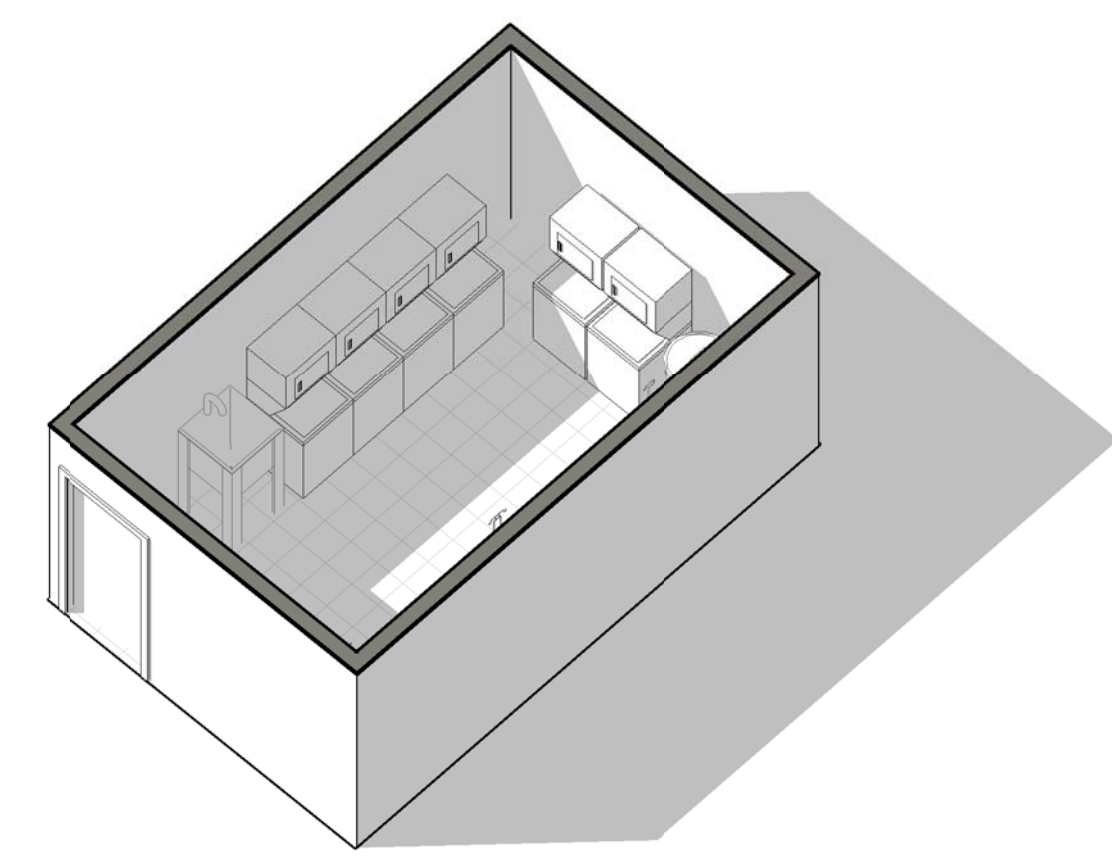
Jacobs Project No.: FDYD3106

Drawing Title:
**MODULE - RESIDENTIAL -
HOTELING & LAUNDRY**

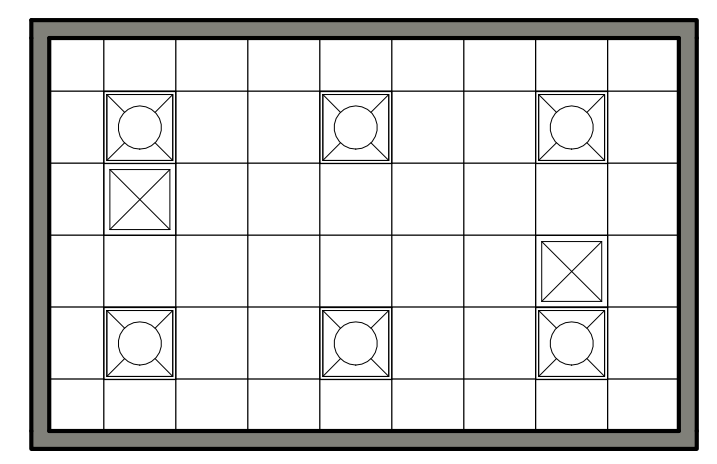
Date: DECEMBER 2013

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

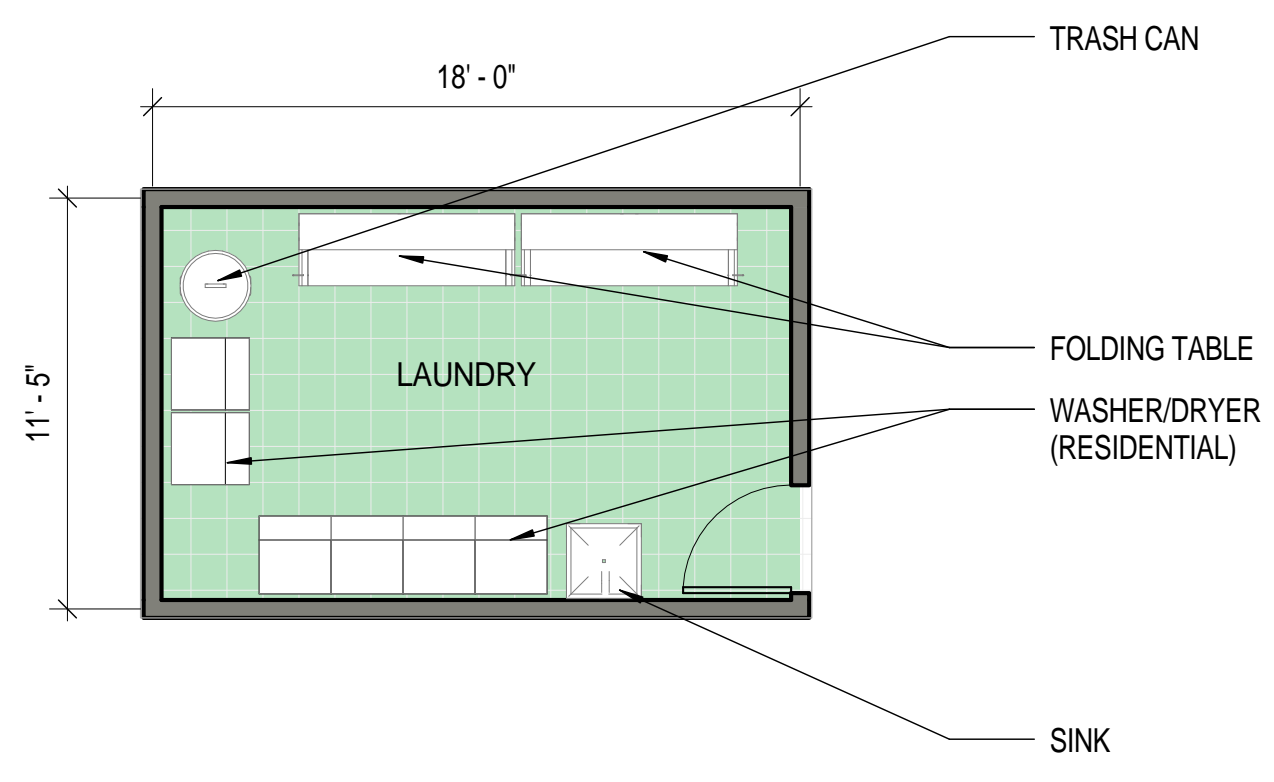
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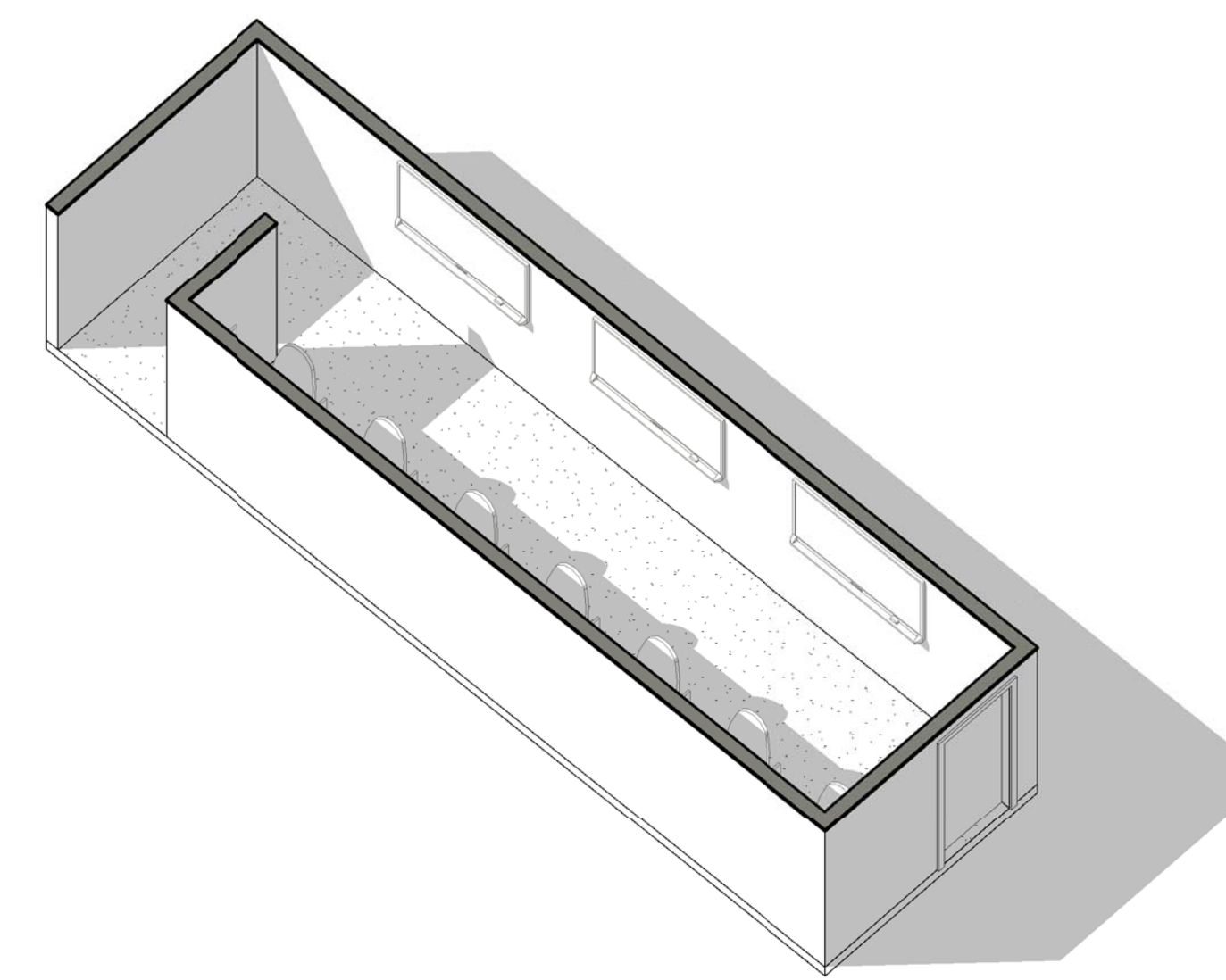
3 LAUNDRY ROOM - AXON



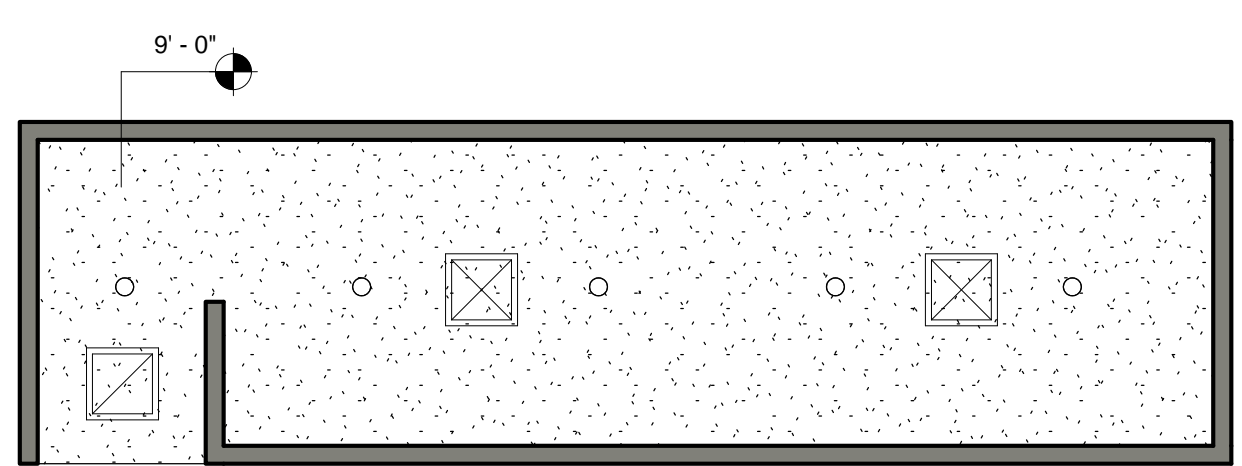
2 LAUNDRY - REFLECTED CEILING PLAN
3/16" = 1'-0"



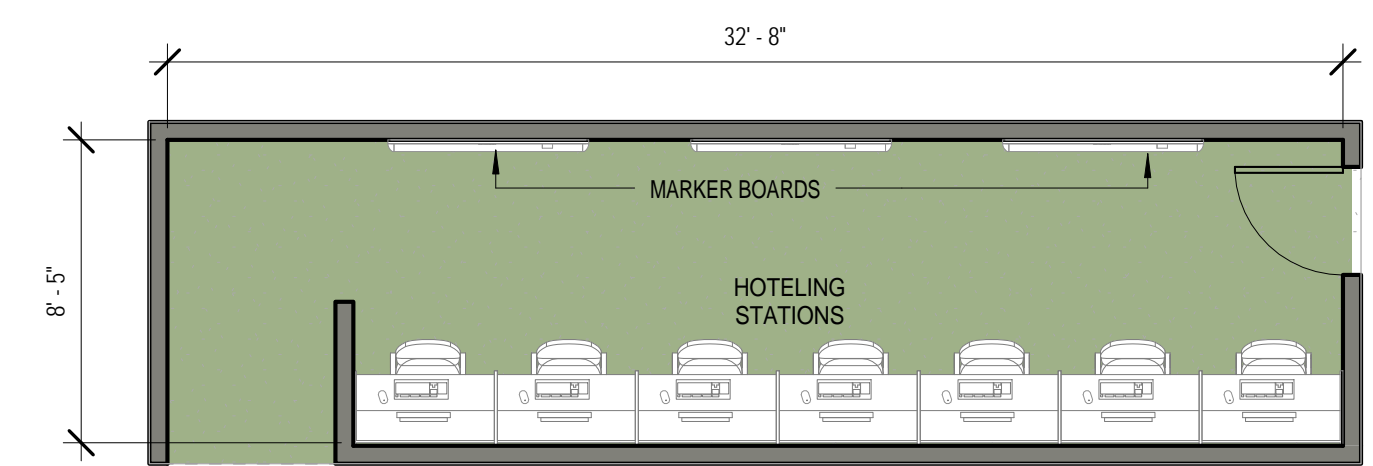
1 LAUNDRY ROOM - FLOOR PLAN
3/16" = 1'-0"



6 HOTELING - AXON



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



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

17/2014 3:15:09 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

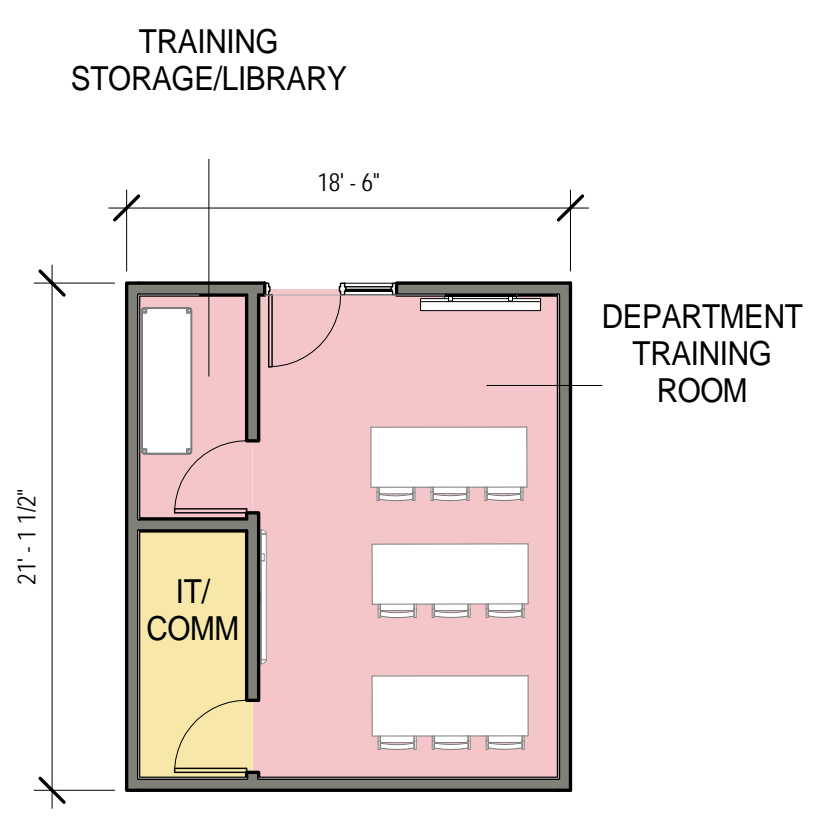
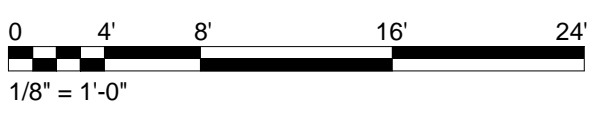
1. TRAINING ROOM IS SIZED TO ACCOMMODATE THE ENTIRE ON-DUTY POPULATION. USED FOR EDUCATION AND TRAINING OF PERSONNEL AND OCCASIONALLY PUBLIC. SHOULD HAVE DIRECT ACCESS TO A IT ROOM AND STORAGE SPACE.
2. IN THE TESTING ROOM PROVIDE COMPUTER/STUDY CAROLS PER THE UFC.

FLOOR FINISH LEGEND

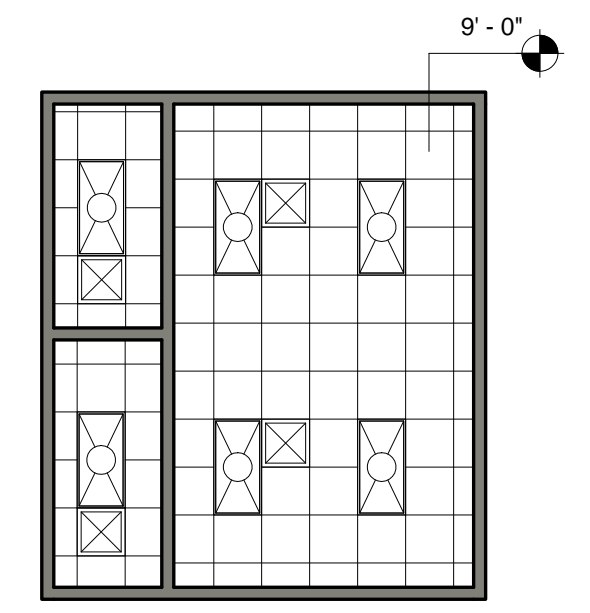
- SEALED CONCRETE
- CARPET
- CERAMIC TILE
- RUBBER SHEET
- FLOOR DRAIN
- HOSE BIB

CEILING LEGEND

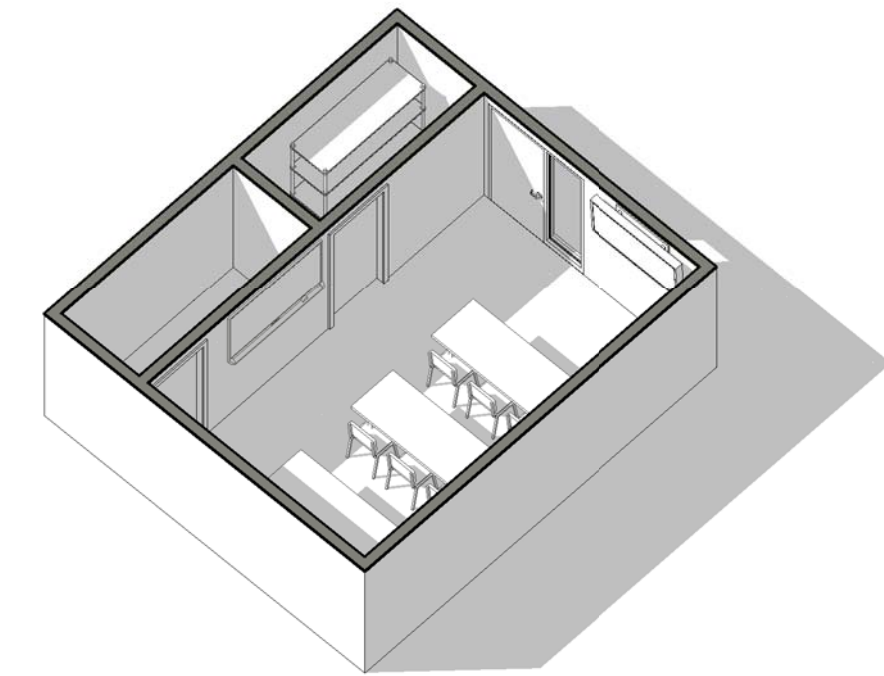
- 2 X 2 ACOUSTICAL TILE
- GYPSUM BOARD
- 2'X4' LIGHT
- 2'X2' LIGHT
- 2'X2' SUPPLY DIFFUSER
- PENDANT LIGHT
- SPOT ELEVATION MARKER
- RECESSED CAN LIGHT
- CEILING FAN
- SMALL PENDANT LIGHT
- LOW BAY LIGHTING
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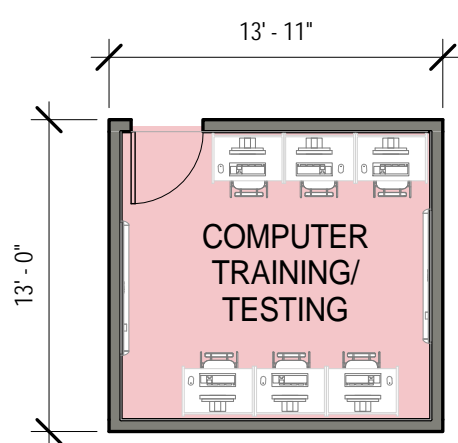
1 TRAINING ROOM - FLOOR PLAN
1/8" = 1'-0"



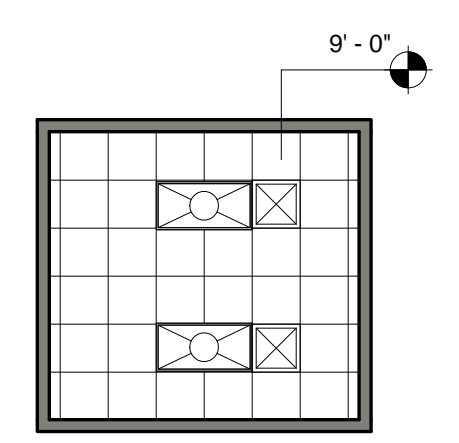
2 TRAINING ROOM - REFLECTED CEILING PLAN
1/8" = 1'-0"



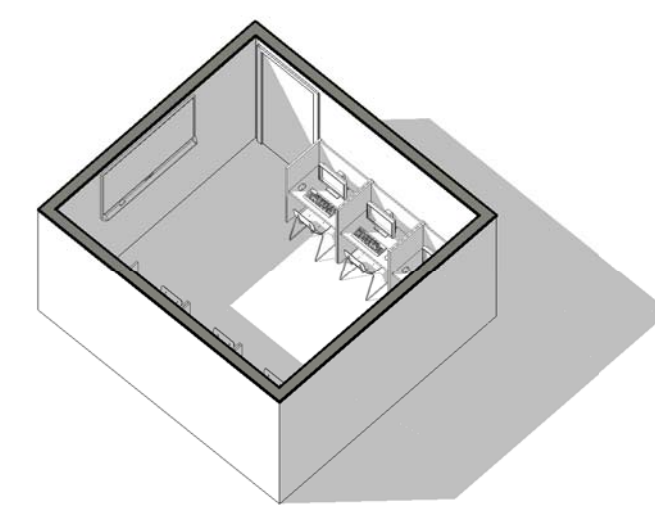
3 TRAINING ROOM - AXON



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



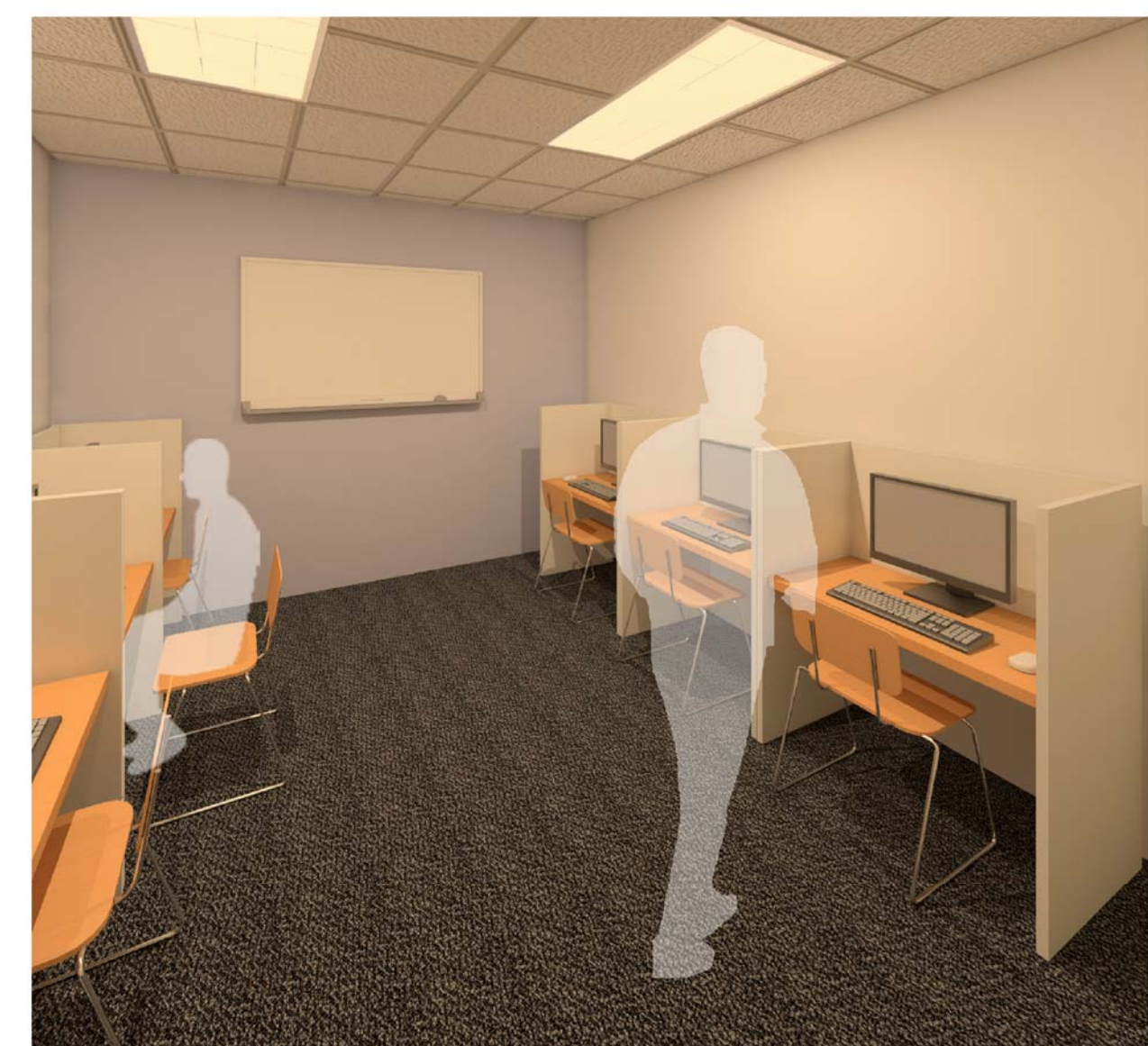
5 COMPUTER TRAIN/TESTING MODULE - REFLECTED CEILING PLAN
1/8" = 1'-0"



6 COMPUTER TRAIN/TESTING MODULE - AXON



TRAINING ROOM



COMPUTER TRAIN/TESTING ROOM

17/2014 3:15:30 PM
SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

Jacobs Project No.: FDYD3106

Drawing Title:

MODULE - ADMINISTRATIVE - TRAINING & TESTING

Date: DECEMBER 2013

Designed By: LEG

Drawn By: KLV

Checked By: JW

Drawing No.:

MO212

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1. MODULES ARE DESIGNED TO CORRESPOND WITH A LARGE HEADQUARTERS FIRE STATION AND ARE INTENDED TO FLEX TO ACCOMMODATE DIFFERENT BUILDING SIZES.
2. EVERY WALL IS GENERIC UNLESS SPECIFICALLY NOTED.
3. EVERY WALL IS A 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 JAN 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.


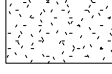
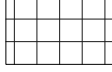



LOBBY NOTES

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.

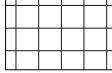

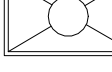









OFFICE NOTES

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

FLOOR FINISH LEGEND

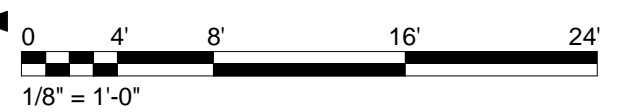
-  SEALED CONCRETE
-  CARPET
-  CERAMIC TILE
-  RUBBER SHEET
-  FLOOR DRAIN
-  HOSE BIB

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
SATELLITE**



Jacobs Project No.: FDYD3106

Drawing Title:
**MODULE -
ADMINISTRATIVE - OFFICE**

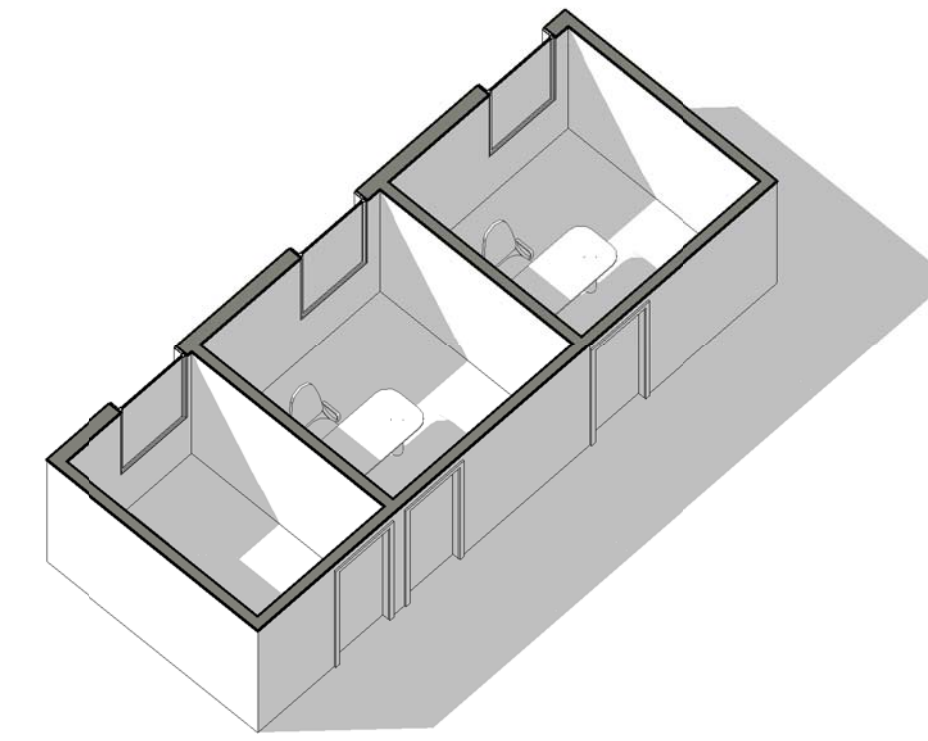
Date: DECEMBER 2013

Designed By: LEG

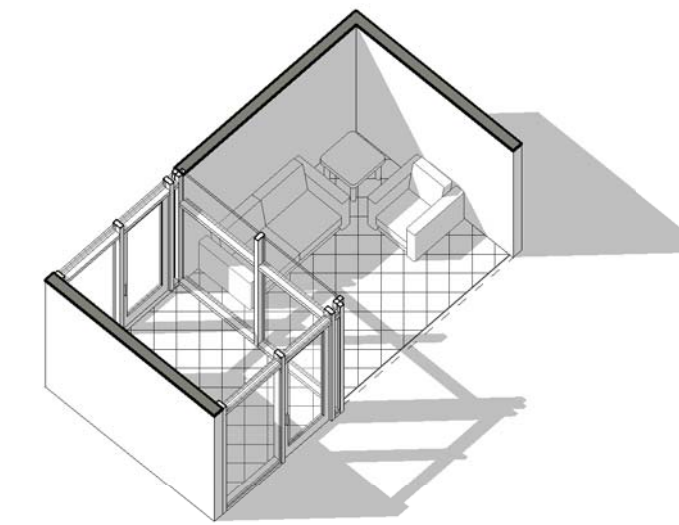
Drawn By: KLV

Checked By: JW

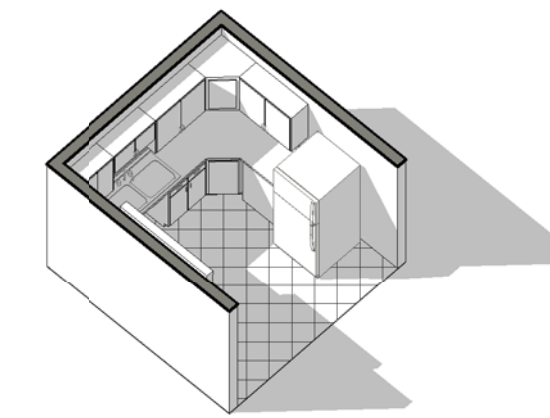
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MO213



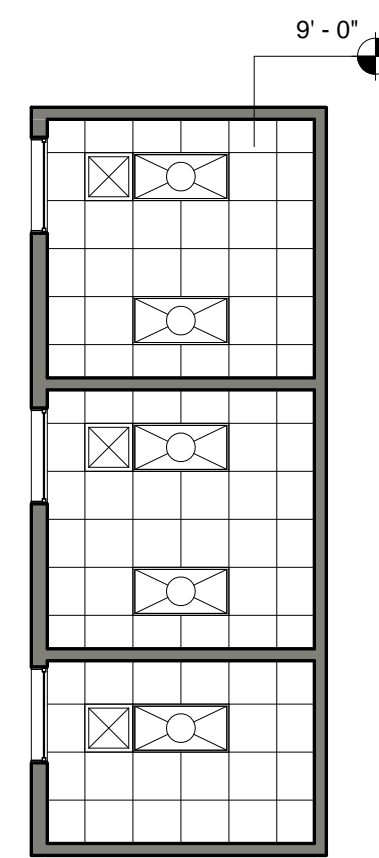
3 OFFICES SUITE MODULE - AXON



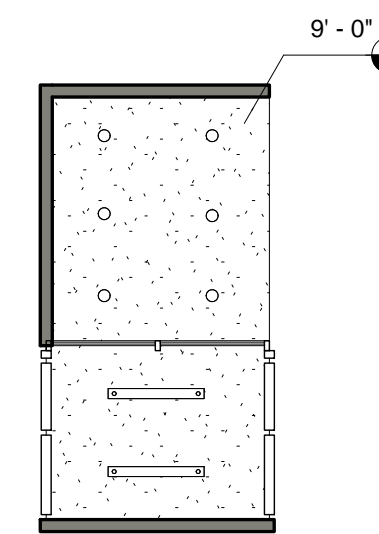
6 LOBBY - AXON



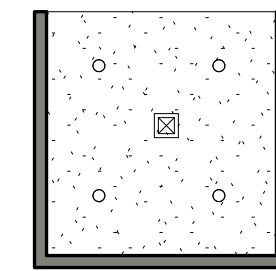
9 BREAK ROOM - AXON



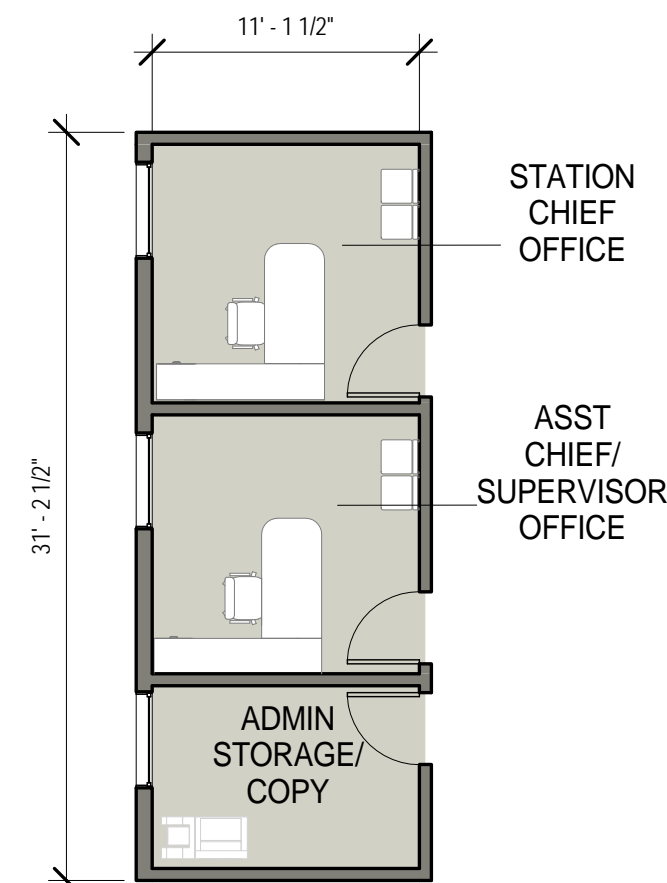
2 OFFICES SUITE MODULE - REFLECTED CEILING PLAN
1/8" = 1'-0"



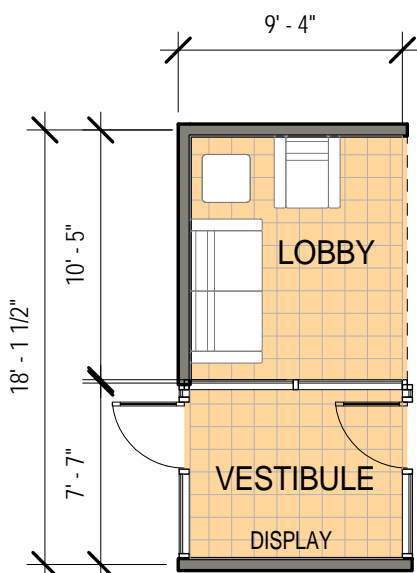
5 LOBBY - REFLECTED CEILING PLAN
1/8" = 1'-0"



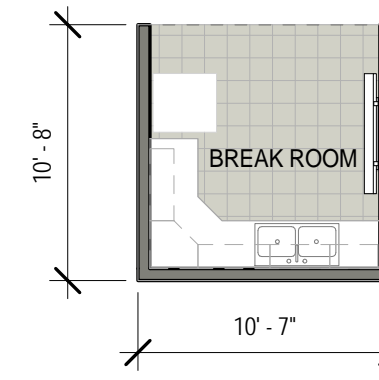
8 BREAK ROOM - REFLECTED CEILING PLAN
1/8" = 1'-0"



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



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



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



OFFICE



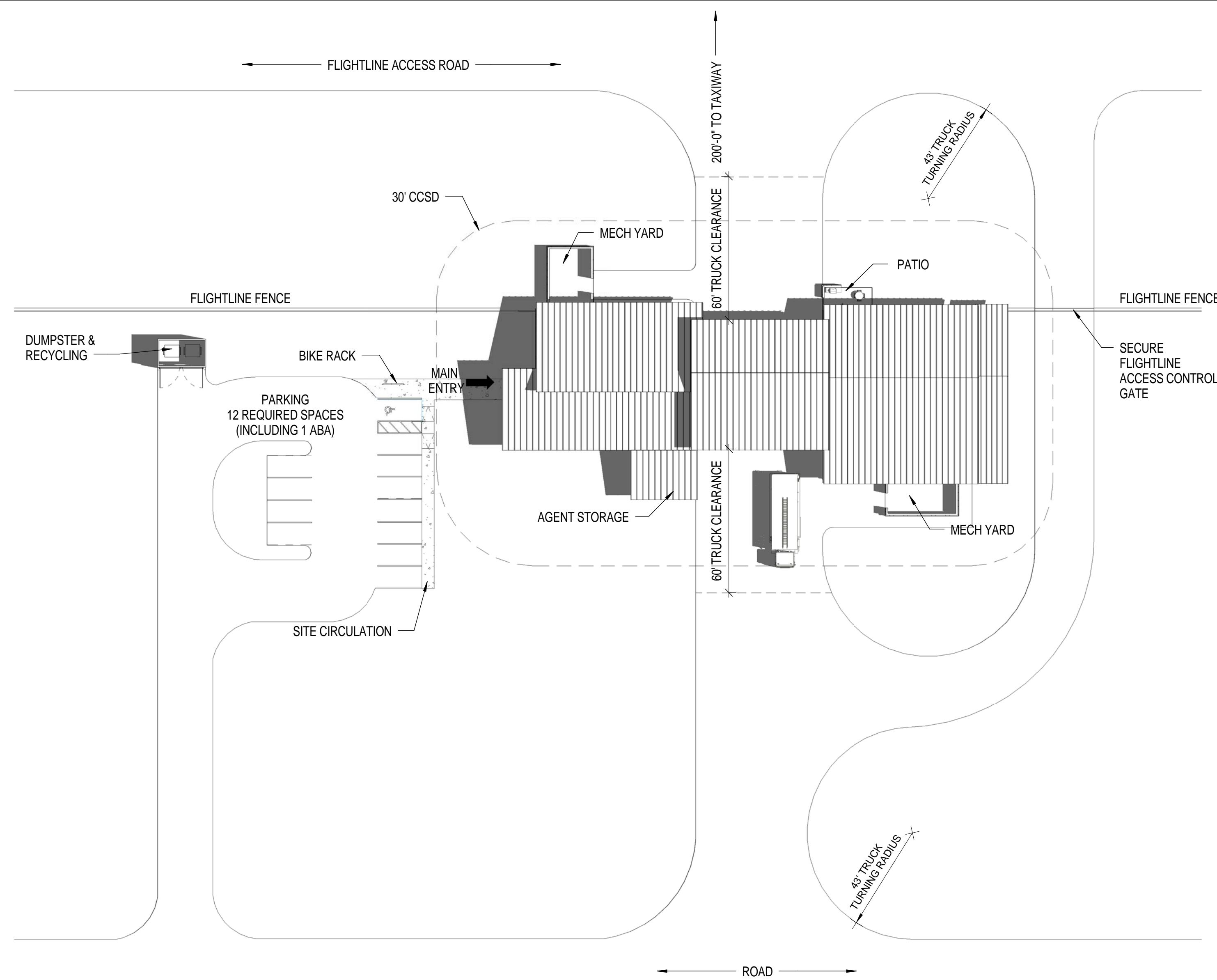
LOBBY

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



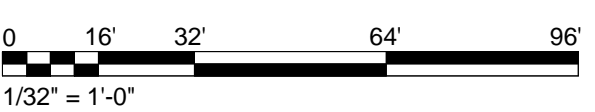
1 COMPOSITE A - SATELLITE COMBINATION SITE PLAN
1/32" = 1'-0"

Prototype Fire Station - Satellite Combination - Composite A 1 Structural, 1 ARFF Companies with 7 Responders		REQUIREMENTS UFC Planning Template (Nov 2011)		AS DESIGNED		COMMENTS
Modules		SM	SP	SP	Delta (SP)	
MAINTENANCE & APPARATUS AREA						
Apparatus Bay		196.2	2,112	2,093	-19	-0.9%
Apparatus Bays						
Small Vehicle (two per bay, if needed)		1				
Medium Structural		0				
Large Structural		0				
Medium ARFF		1				
Large ARFF		0				
Agent Storage						
Agent Storage (ARFF)		7.0	75.0	75	0	0.0%
Agent Storage (Structural)		4.5	48.0	40	-8	-16.7%
EMS Storage - Closet		3.7	40.0	40	0	0.0%
Equipment Wash / Disinfection		13.9	150	146	-4	-2.7%
Fire Extinguisher Inspection		4.5	48	64	16	33.3%
Flightline Fire Extinguishing Maintenance and Storage		14.9	160	159	-1	-0.6%
Flightline Fire Extinguishing Tank Recovery Ext. Covered Storage		1.9	20	20	-1	-2.5%
Hose Storage		5.0	54	64	10	18.5%
Infectious Control		14.9	160	149	-11	-6.9%
Non-Fightline Fire Extinguishing Maintenance and Storage		11.1	120	120	0	0.0%
PPE Gear Storage		6.5	70	82	12	17.1%
Protective Clothing Laundry		9.8	105	115	10	9.5%
Spare Flightline Fire Extinguishing Tank Exterior Covered Storage		8.4	90	84	-6	-6.7%
Work Room / Equipment Maintenance		11.1	120	127	7	5.8%
SUBTOTAL MAINTENANCE & APPARATUS AREA		301.8	3,249	3,263	14	0.4%
DAY ROOM & RESIDENTIAL AREA						
Day						
Day Room		78.0	840	907	67	8.0%
Hoteling Stations		11.1	120	128	8	6.7%
Patio		7.0	75	93	18	24.0%
Dorm Rooms						
Dorm Rooms		70.2	756	756	0	0.0%
Bathrooms / Showers / Changing - Female Responders		16.4	176	170	-6	-3.4%
Restrooms						
Water Closets		2				
Showers		1				
Lockers		3				
Bathrooms / Showers / Changing - Male Responders		29.7	320	282	-38	-11.9%
Laundry						
Laundry Room		7.8	84	93	9	10.7%
Fitness						
Fitness Room		39.0	420	422	2	0.5%
Recreation						
Recreation Room		33.4	360	358	-2	-0.6%
SUBTOTAL DAY ROOM & RESIDENTIAL AREA		292.7	3,151	3,209	58	1.8%

PREDESIGN AREA MATRIX

Prototype Fire Station - Satellite Combination - Composite A 1 Structural, 1 ARFF Companies with 7 Responders		REQUIREMENTS UFC Planning Template (Nov 2011)		AS DESIGNED		COMMENTS
Modules		SM	SP	SP	Delta (SP)	
TRAINING & ADMINISTRATIVE AREA						
Lobby						
Lobby Area		9.3	100	100	0	0.0%
Main Entry Vestibule		5.9	64	87	23	35.9%
Admin and Offices						
Public Toilet (ADA-compliant, unisex)		5.6	60.0	60.0	0	0.0%
Administration & Training Break Room		9.3	100	100	0	0.0%
General Administration Storage		7.4	80	89	9	11.3%
Station Chief Office / Watch Desk		11.1	120	121	1	0.8%
Training and Testing						
Computer Training / Testing Room		13.0	140	154	14	10.0%
Training Room		31.2	336	336	0	0.0%
Training Room Storage		7.4	80	84	4	5.0%
SUBTOTAL TRAINING & ADMINISTRATIVE AREA		100.3	1,080	1,131	51	4.7%
FIRE STATION NET ASSIGNED FLOOR AREA		694.9	7,480	7,603	123	1.6%
INFRASTRUCTURE						
Facility Maint.						
Custodial		3.6	38	56	18	46.1%
Mechanical / Electrical						
Mechanical Rooms		14.3	154	253	99	64.3%
Mechanical Room - Admin Area		15.6	168	208	40	23.8%
Mechanical Room - Responders Area		31.2	336	352	16	4.8%
Base IT / Comms Room(s)		5.6	60	246	186	310.0%
IT / Comms		5.6	60	86	26	43.3%
Vending		3.7	40	48	8	20.0%
Vending / Recycling						
SUBTOTAL INFRASTRUCTURE AREA		79.6	858	1,249	393	45.9%
FIRE STATION NET FUNCTIONAL AREA		774.4	8,338	8,852	515	6.2%
NON-FUNCTION SPACE						
Circulation						
Corridors, Halls, and other Interior Circulation		104.2	1,122	1,115	-7	-0.6%
Entrines						
Covered Exterior Entrines				61	61	0.0%
Walls						
Interior Partitions and Walls		55.6	598	1,491	893	149.2%
SUBTOTAL NON-FUNCTION AREA		159.8	1,720	2,667	947	55.0%
TOTAL FIRE STATION GROSS AREA		934.3	10,057	11,519	1,462	14.5%
FIRE STATION DESIGN EFFICIENCY						74%

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



Jacobs Project No.: FDYD3106

Drawing Title:
COMPOSITE A - SATELLITE COMBINATION SITE AND PROGRAM

Date: DECEMBER 2013

Designed By: LEG

Drawn By: KLV

Checked By: JW

Drawing No.:

CO201



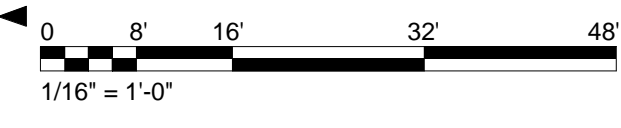
1 COMPOSITE A - SATELLITE COMBINATION OVERALL FLOOR PLAN
1/16" = 1'-0"



SATELLITE COMBINATION ENTRY PERSPECTIVE



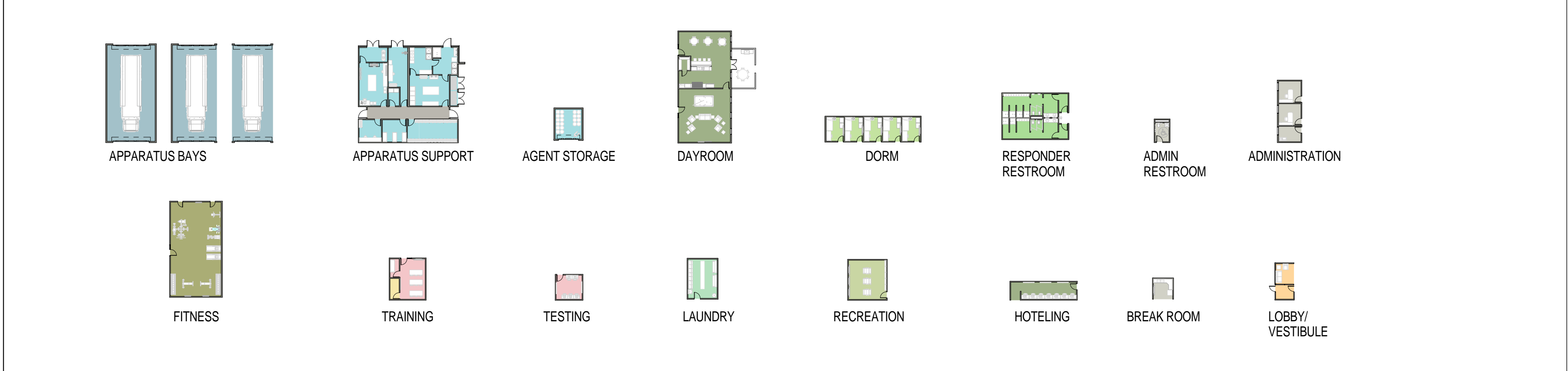
SATELLITE COMBINATION BUILDING PERSPECTIVE



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 - SATELLITE COMBINATION OVERALL FLOOR PLAN AND PERSPECTIVES

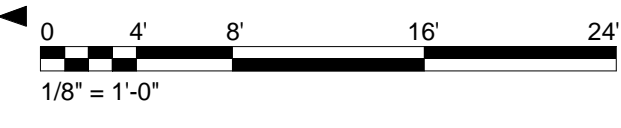
Date: DECEMBER 2013
Designed By: LEG
Drawn By: KLW
Checked By: JW
CO202

17/2014 2:48:25 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"

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



Jacobs Project No.: FDYD3106

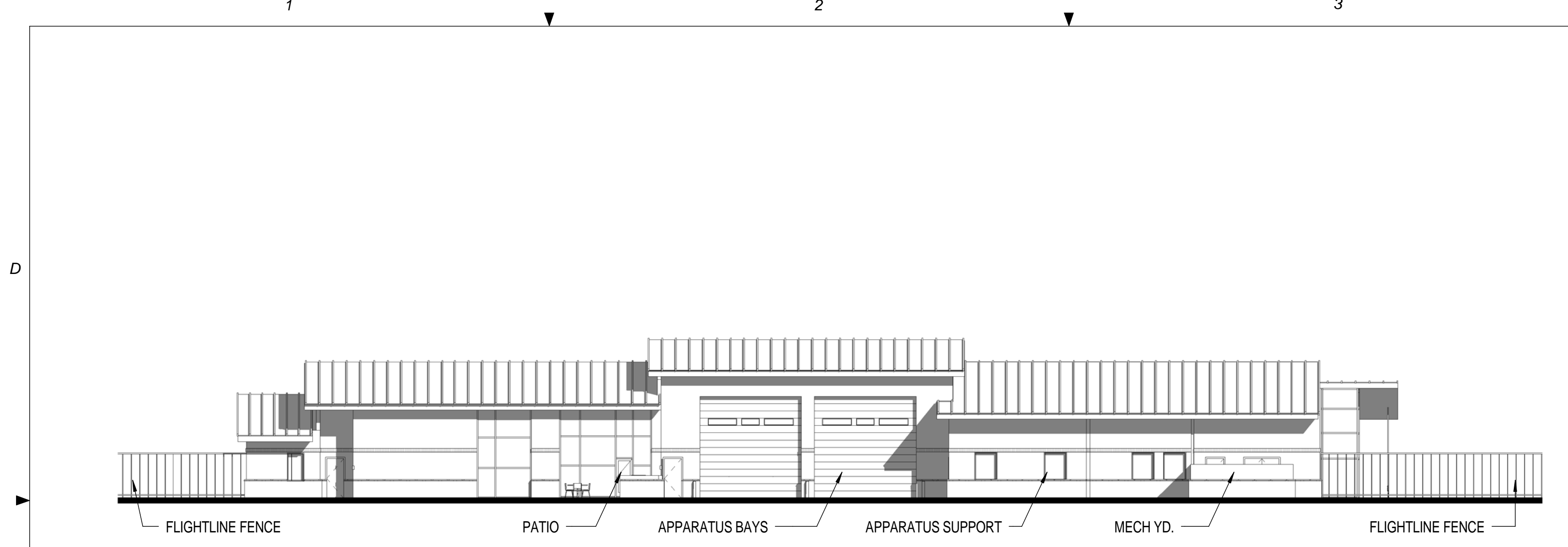
Drawing Title:
**COMPOSITE A - SATELLITE
COMBINATION ENLARGED
FLOOR PLAN**

Date: DECEMBER 2013

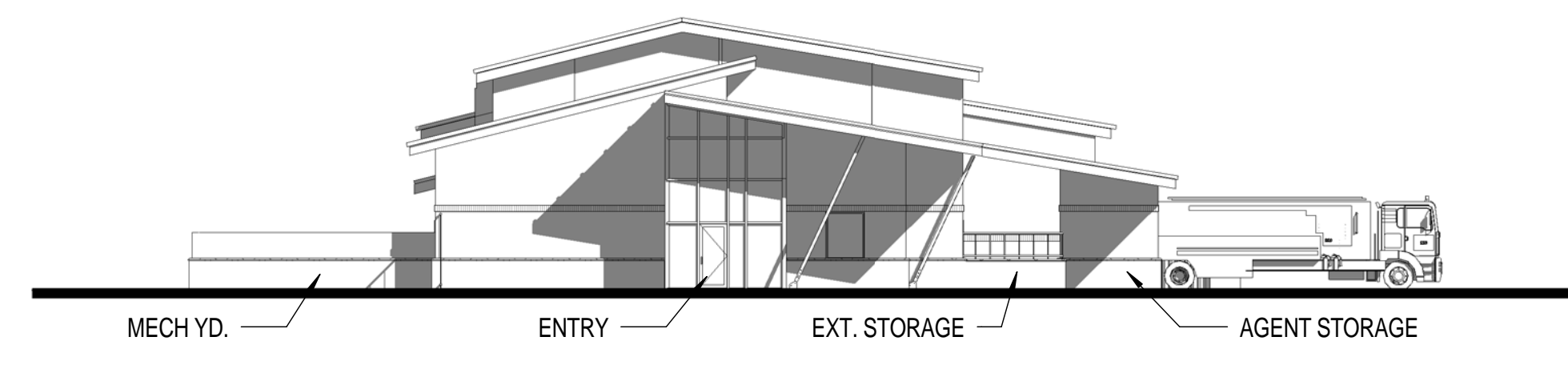
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Drawing No.:
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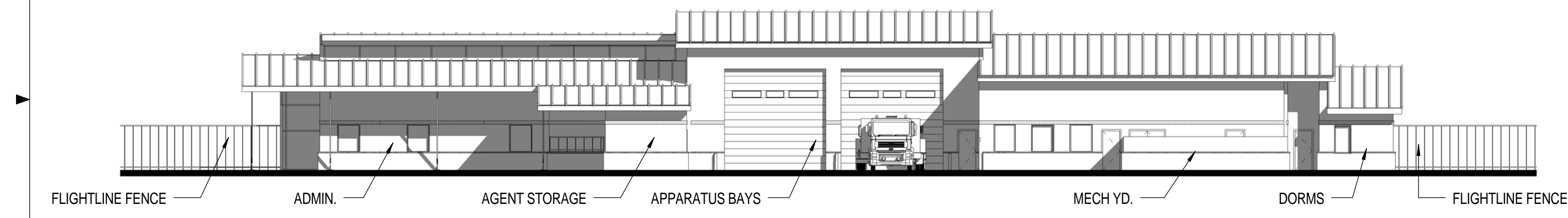
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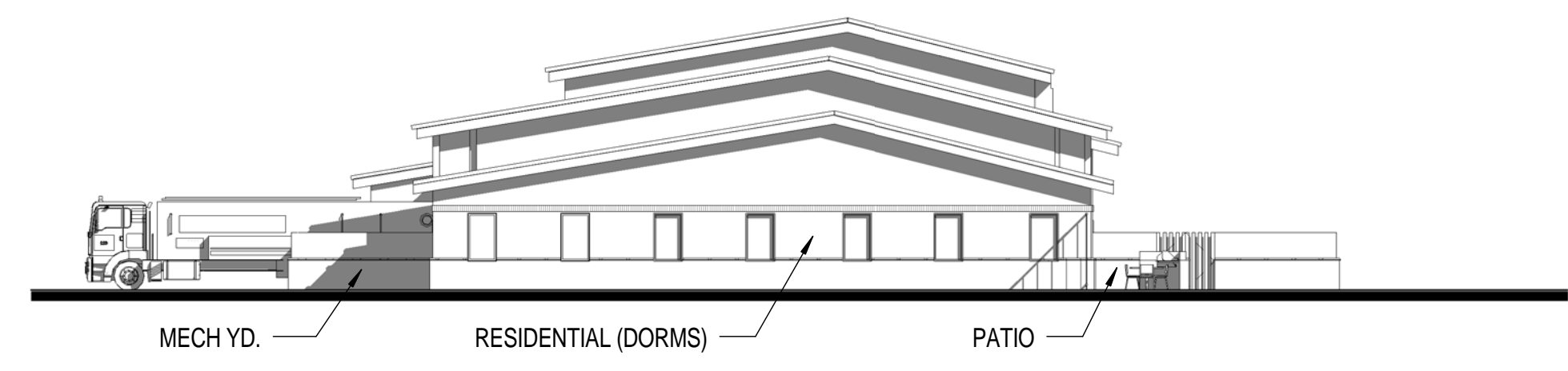
① COMPOSITE A - ELEVATION 1
1/16" = 1'-0"



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

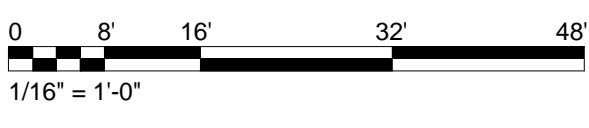


③ COMPOSITE A - ELEVATION 3
1/16" = 1'-0"



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

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



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 - SATELLITE
COMBINATION
ELEVATIONS**

Date: DECEMBER 2013

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

Drawing No.:
CO204

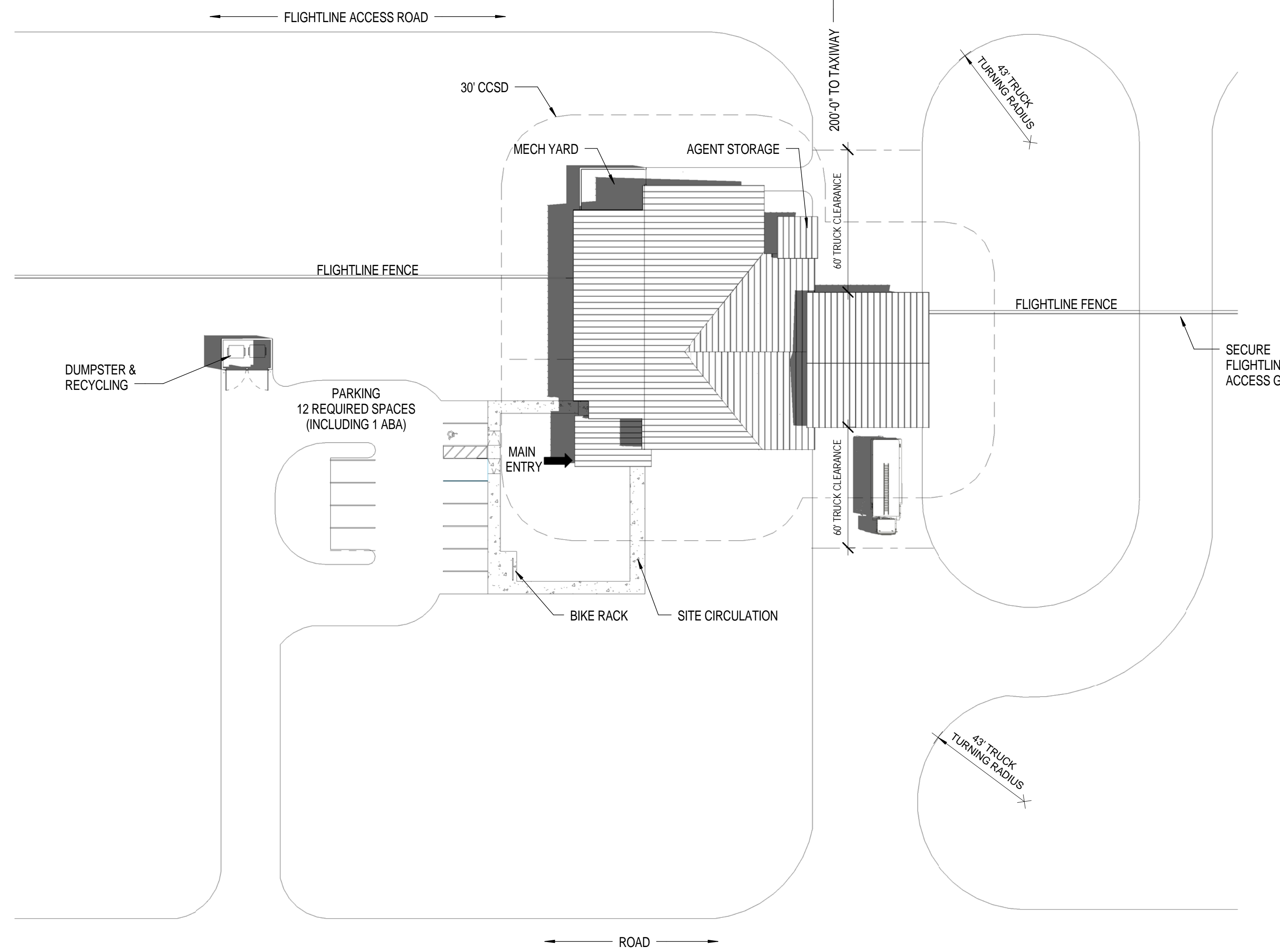
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 - PARKING AND ROADWAYS WITHIN A CONTROLLED PERIMETER
 - BUILDING IS BOTH BILLETING AND INHABITED. DESIGNED TO HIGHER STANDARD (BILLETING 11OR MORE DoD OCCS ROUTINELY HOUSED)
 - NON-LOAD BEARING WALLS
 - WALL TYPE: REINFORCED MASONRY



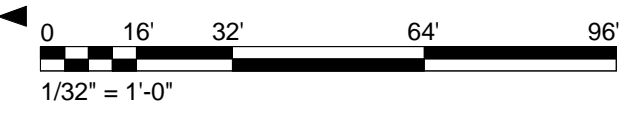
1 COMPOSITE B - SATELLITE COMBINATION SITE PLAN
1/32" = 1'-0"

Prototype Fire Station - Satellite Combination - Composite B 1 Structural, 1 ARFF Companies with 7 Responders		REQUIREMENTS UFC Planning Template (Rev 2011)		AS DESIGNED		COMMENTS
Modules		SF	Delta (SF)	Delta (%)		
MAINTENANCE & APPARATUS AREA						
Apparatus Bay		196.2	2,112	2,092	-20	-0.9%
Apparatus Bays						
Small Vehicle (two per bay, if needed)		1				
Medium Structural		0				
Large Structural		0				
Medium ARFF		1				
Large ARFF		0				
Agent Storage						
Agent Storage (ARFF)		7.0	75.0	75	0	0.0%
Agent Storage (Structural)		4.5	48.0	41	-7	-14.6%
EMS Storage - Closet		3.7	40.0	40	0	0.0%
Equipment Wash / Disinfection		13.9	150	148	-2	-1.3%
Fire Extinguisher Inspection		4.5	48	54	6	12.5%
Flightline Fire Extinguishing Maintenance and Storage		14.9	160	164	4	2.5%
Flightline Fire Extinguishing Tank Recovery Ext. Covered Storage		1.9	20	19	-2	-7.5%
Hose Storage		5.0	54	57	3	5.6%
Infectious Control		14.9	160	168	8	5.0%
Non Flightline Fire Extinguishing Maintenance and Storage		11.1	120	115	-5	-4.2%
PPE Gear Storage		6.5	70	72	2	2.9%
Protective Clothing Laundry		9.8	105	107	2	1.9%
Spare Flightline Fire Extinguishing Tank Exterior Covered Storage		8.4	90	81	-9	-10.0%
Work Room / Equipment Maintenance		11.1	120	125	5	4.2%
SUBTOTAL MAINTENANCE & APPARATUS AREA		301.8	3,249	3,242	-8	-0.2%
DAY ROOM & RESIDENTIAL AREA						
Day						
Day Room		78.0	840	910	70	8.3%
Hoteling Stations		11.1	120	117	-3	-2.5%
Patio		7.0	75	109	34	44.7%
Dorm Rooms						
Dorm Rooms		70.2	758	756	0	0.0%
Barrooms / Showers / Changing - Female Responders		16.4	176	169	13	7.4%
Lavatories		2				
Water Closets		2				
Showers		1				
Lockers		3				
Restrooms						
Barrooms / Showers / Changing - Male Responders		29.7	320	315	-5	-1.6%
Lavatories		3				
Water Closets / Urinals		4				
Showers		2				
Lockers		6				
Laundry						
Laundry Room		7.8	84	84	0	0.0%
Fitness						
Fitness Room		39.0	420	420	0	0.0%
Recreation						
Recreation Room		33.4	360	382	22	6.1%
SUBTOTAL DAY ROOM & RESIDENTIAL AREA		292.7	3,151	3,282	131	4.1%

PREDESIGN AREA MATRIX

Prototype Fire Station - Satellite Combination - Composite B 1 Structural, 1 ARFF Companies with 7 Responders		REQUIREMENTS UFC Planning Template (Rev 2011)		AS DESIGNED		COMMENTS
Modules		SF	Delta (SF)	Delta (%)		
TRAINING & ADMINISTRATIVE AREA						
Lobby						
Lobby Area		9.3	100	160	60	60.0%
Main Entry Vestibule		5.9	64	64	0	0.0%
Admin and Offices						
Public Toilet (ADA-compliant, unisex)		5.6	60.0	65	5	8.3%
Administration & Training Break Room		9.3	100.0	109	9	9.0%
General Administration Storage		7.4	80	88	8	10.0%
Station Chief Office / Watch Desk		11.1	120	124	4	3.3%
Training and Testing						
Computer Training / Testing Room		13.0	140	152	12	8.6%
Training Officer Office		0.0	0	0	0	0.0%
Training Room		31.2	336	341	5	1.5%
Training Room Storage		7.4	80	73	-7	-8.8%
SUBTOTAL TRAINING & ADMINISTRATIVE AREA		100.3	1,080	1,176	96	8.9%
FIRE STATION NET ASSIGNED FLOOR AREA		694.9	7,480	7,699	219	2.9%
INFRASTRUCTURE						
Facility Maint.						
Custodial		3.6	38	12	-26	-68.7%
Electrical Rooms		14.3	154	127	-27	-17.5%
Mechanical / Electrical						
Mechanical Room - Admin Area		15.6	168	364	196	116.7%
Mechanical Room - Responders Area		31.2	336	0	-336	-100.0%
Telecomm / IT						
Base IT / Comms Room(s)		5.6	60	100	40	66.7%
IT / Comms		5.6	60	0	-60	-100.0%
Vending		3.7	40	22	-18	-45.0%
Vending / Recycling						
SUBTOTAL INFRASTRUCTURE AREA		79.6	856	625	-231	-27.0%
FIRE STATION NET FUNCTIONAL AREA		774.4	8,336	8,324	-12	-0.1%
NON-FUNCTION SPACE						
Circulation						
Corridors, Halls, and other Interior Circulation		104.2	1,122	1,095	-27	-2.4%
Entries						
Covered Exterior Entries		208	208	208	0	0.0%
Walls						
Interior Partitions and Walls		55.6	598	1,065	467	78.0%
SUBTOTAL NON-FUNCTION AREA		159.8	1,720	2,368	648	37.7%
TOTAL FIRE STATION GROSS AREA		934.3	10,057	10,692	636	6.3%
FIRE STATION DESIGN EFFICIENCY		74%		72%		

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



Jacobs Project No.: FDYD3106

Drawing Title:
COMPOSITE B - SATELLITE COMBINATION SITE AND PROGRAM

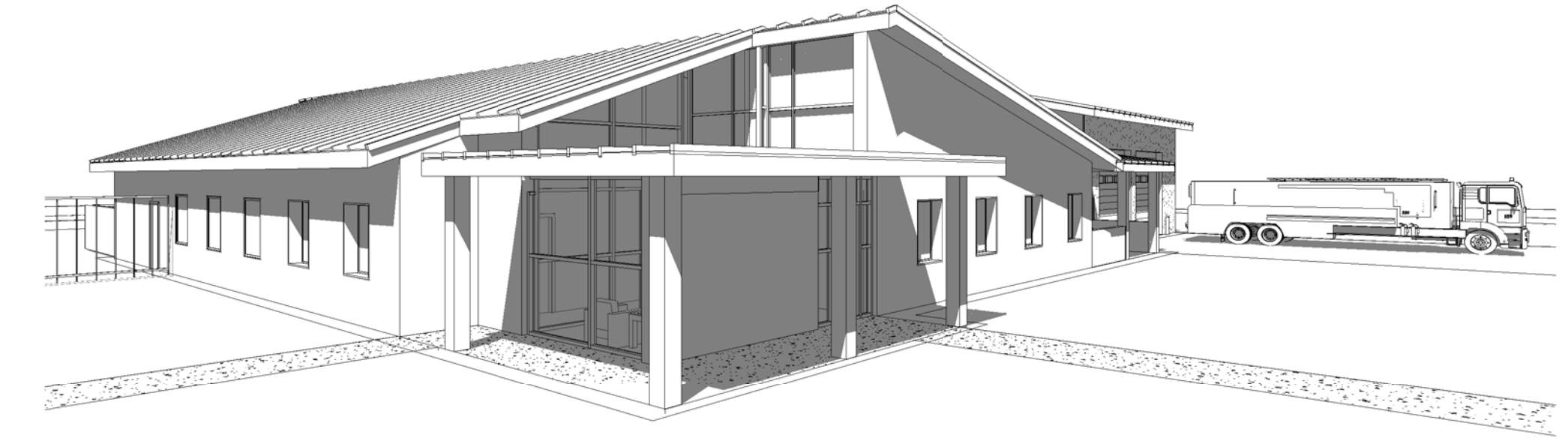
Date: DECEMBER 2013

Designed By: LEG
 Drawn By: KLW
 Checked By: JW
CO205

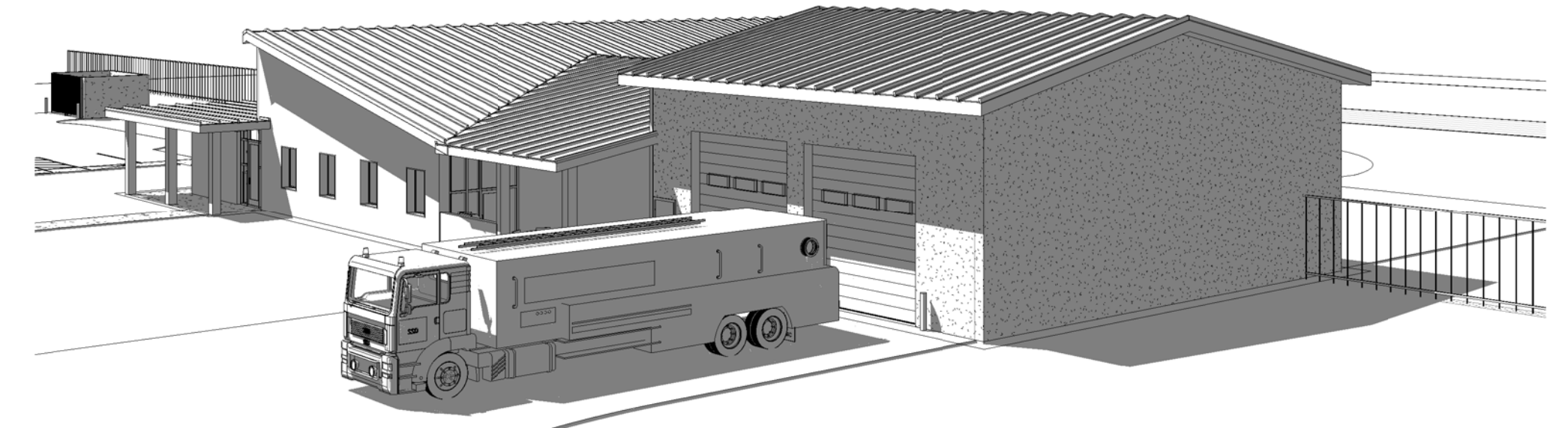
17/2014 2:50:15 PM
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1 COMPOSITE B- SATELLITE COMBINATION OVERALL FLOOR PLAN
1/16" = 1'-0"

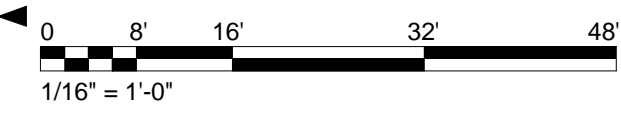


2 COMPOSITE B - SATELLITE COMBO ENTRY PERSPECTIVE



3 COMBINATION B - SATELLITE COMBO OVERALL PERSPECTIVE

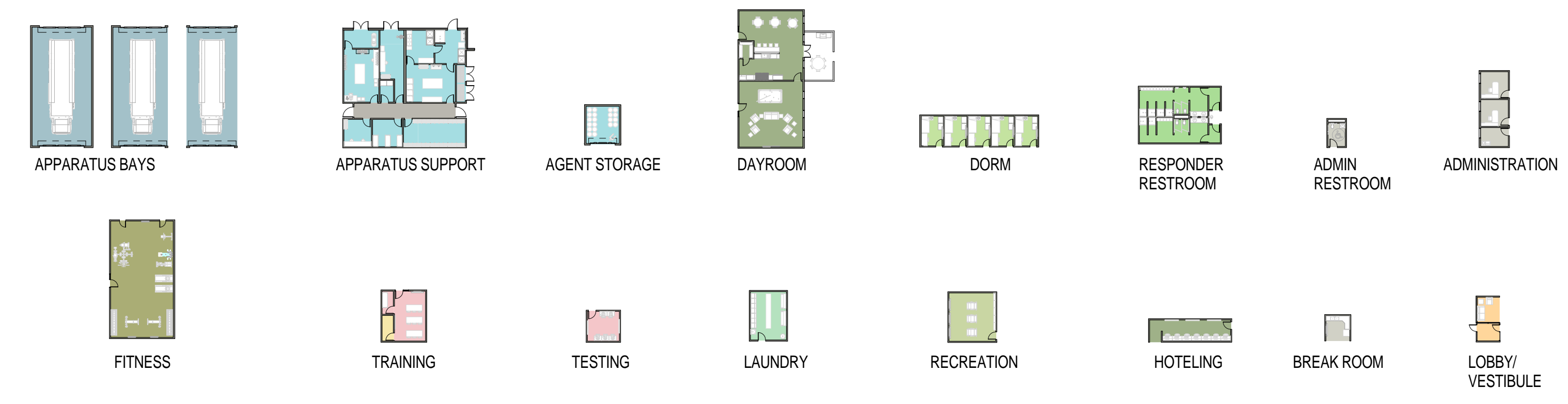
AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
 FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:
FIRE STATION
SATELLITE



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



17/2014 2:52:30 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

Jacobs Project No.: FDYD3106
 Drawing Title: COMPOSITE B - SATELLITE COMBINATION OVERALL FLOOR PLAN AND PERSPECTIVES
 Date: DECEMBER 2013
 Designed By: LEG
 Drawn By: KLW
 Checked By: JW
CO206



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

**FIRE STATION
SATELLITE**



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

Jacobs Project No.: FDYD3106

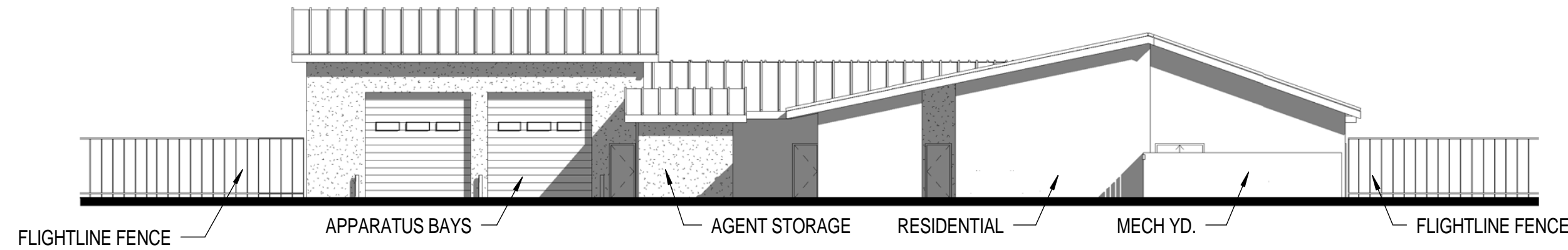
Drawing Title:
**COMPOSITE B - SATELLITE
COMBINATION ENLARGED
FLOOR PLAN**

Date: DECEMBER 2013

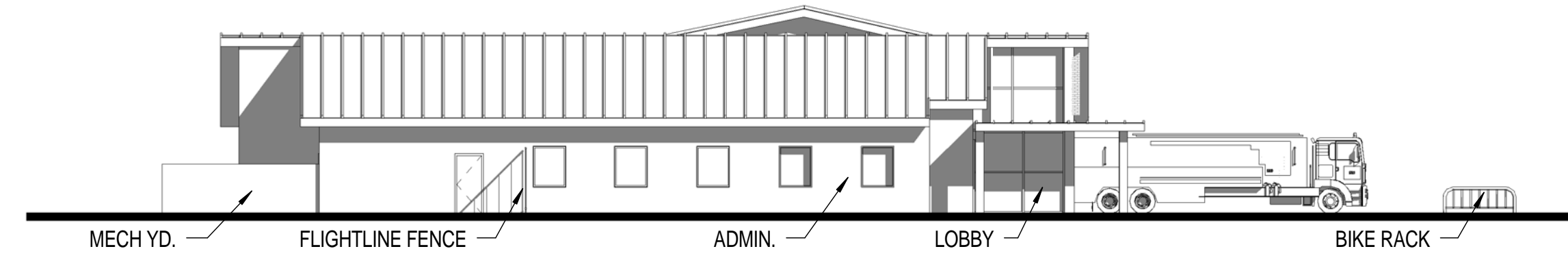
Designed By: LEG
Drawn By: KLV
Checked By: JW

Drawing No.:
CO207

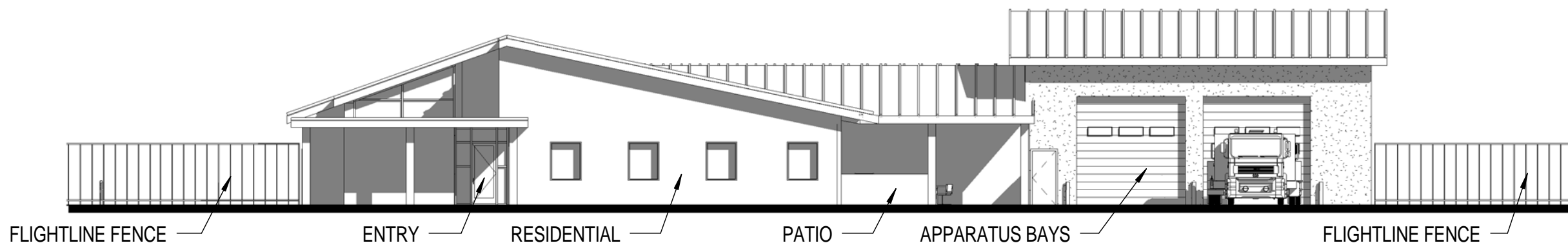
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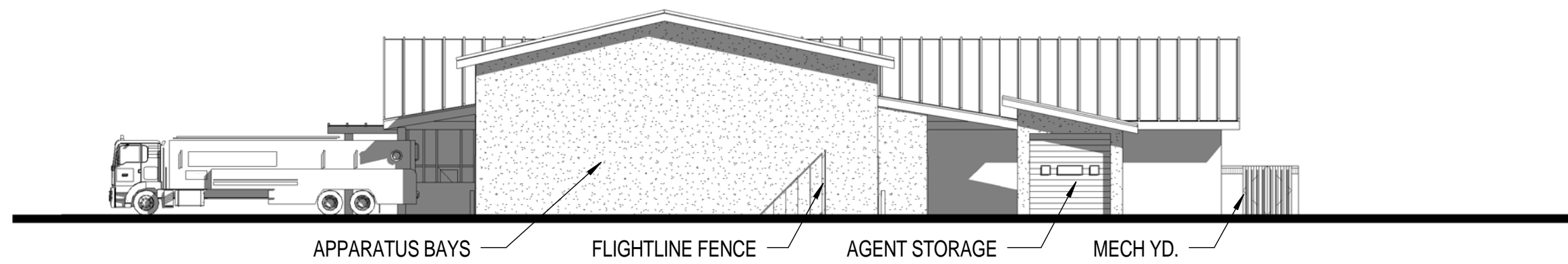
① COMPOSITE B - ELEVATION 1
1/16" = 1'-0"



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
SATELLITE**



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 - SATELLITE
COMBINATION
ELEVATIONS**

Date: DECEMBER 2013

Designed By: LEG

Drawn By: KLV

Checked By: JW

Drawing No.:

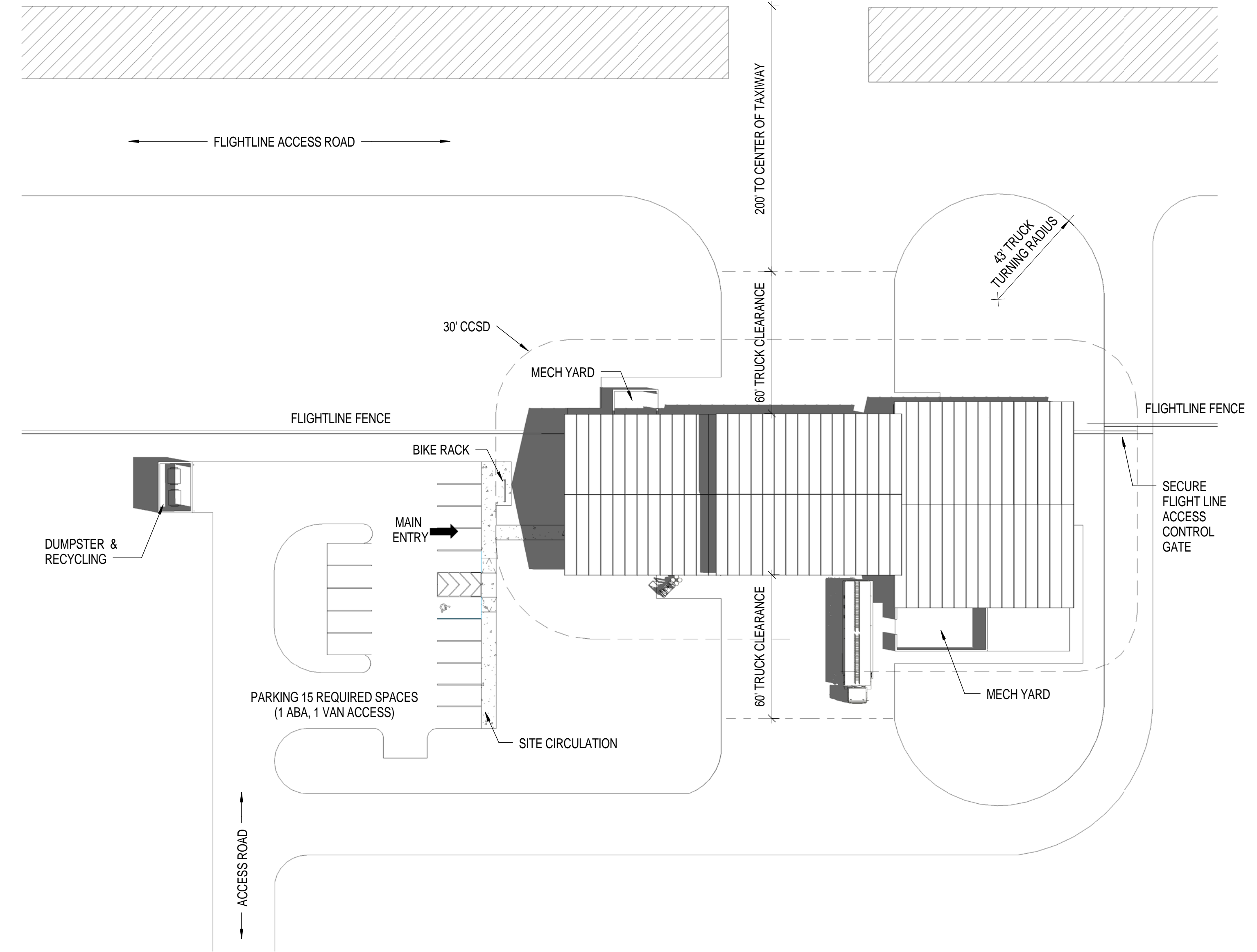
CO208

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



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

Modules	REQUIREMENTS UFC Planning Template (Rev 2011)		AS DESIGNED		COMMENTS
	SQ	SF	SF	Delta (%)	
Prototype Fire Station - Satellite ARFF - Composite A					
0 Structural, 3 ARFF Companies with 9 Responders					
MAINTENANCE & APPARATUS AREA					
Apparatus Bay	367.9	3,960	4,279	319	8.1%
Apparatus Bays	1	0	0	0	0.0%
Agent Storage	13.9	150	173	23	15.3%
EMS Storage - Closet	3.7	40	39	-1	-2.5%
Equipment Wash / Disinfection	13.9	150	150	0	0.0%
Fire Extinguisher Inspection	2.2	24	22	-2	-8.3%
Flightline Fire Extinguishing Maintenance and Storage	14.9	160	139	-21	-13.1%
Flightline Fire Extinguishing Tank Recovery Ext. Covered Storage	1.9	20	20	0	0.0%
Hose Storage	5.0	54	62	8	14.8%
Infectious Control	14.9	160	154	-6	-3.8%
PPE Gear Storage	8.4	90	94	4	4.4%
Protective Clothing Laundry	12.5	135	132	-3	-2.2%
Spare Flightline Fire Extinguishing Tank Exterior Covered Storage	8.4	90	88	-2	-2.2%
Work Room / Equipment Maintenance	11.1	120	127	7	5.8%
SUBTOTAL MAINTENANCE & APPARATUS AREA	478.7	5,153	5,479	326	6.3%
DAY ROOM & RESIDENTIAL AREA					
Day Room	100.3	1,080	1,068	-12	-1.1%
Host Nation Day Room	0.0	0	0	0	0.0%
Hoteling Stations	11.1	120	119	-1	-0.8%
Patio	11.6	125	69	-56	-44.8%
Physical Therapy / Sauna	0.0	0	0	0	0.0%
Dorm Rooms	90.3	972	971	-1	-0.1%
Bathrooms / Showers / Changing - Female Responders	16.4	176	196	20	11.4%
Restrooms	2	2	2	0	0.0%
Water Closets	2	2	2	0	0.0%
Shower	1	1	1	0	0.0%
Lockers	3	3	3	0	0.0%
Bathrooms / Showers / Changing - Male Responders	30.9	333	280	-53	-15.9%
Laundry	10.0	108	107	-1	-0.9%
Fitness	50.2	540	532	-8	-1.5%
Recreation	33.4	360	369	9	2.5%
SUBTOTAL DAY ROOM & RESIDENTIAL AREA	354.3	3,814	3,711	-103	-2.7%

PREDESIGN AREA MATRIX

Modules	REQUIREMENTS UFC Planning Template (Rev 2011)		AS DESIGNED		COMMENTS
	SQ	SF	SF	Delta (%)	
Prototype Fire Station - Satellite ARFF - Composite A					
0 Structural, 3 ARFF Companies with 9 Responders					
TRAINING & ADMINISTRATIVE AREA					
Lobby	9.3	100	102	2	2.0%
Main Entry Vestibule	5.9	64	67	3	4.7%
Public Toilet (ADA-compliant, unisex)	5.6	60.0	53	-7	-11.7%
Administration & Training Break Room	9.3	100.0	84	-16	-16.0%
Assistant Chief / Shift Supervisor	11.1	120	116	-4	-3.3%
General Administration Storage	7.4	80	82	2	2.5%
Station Chief Office / Watch Desk	11.1	120	116	-4	-3.3%
Computer Training / Testing Room	13.0	140	134	-6	-4.3%
Training Room	31.2	336	346	10	3.0%
Training Room Storage	7.4	80	77	-3	-3.8%
SUBTOTAL TRAINING & ADMINISTRATIVE AREA	111.5	1,200	1,465	265	22.1%
FIRE STATION NET ASSIGNED FLOOR AREA					
	944.5	10,167	10,655	488	4.8%
INFRASTRUCTURE					
Facility Maint. Custodial	4.7	51	30	-21	-40.8%
Mechanical / Electrical	18.9	203	200	-3	-1.5%
Base IT / Comms (Room/s)	5.6	60	56	-4	-6.7%
IT / Comms	5.6	60	63	3	5.0%
Vending	5.6	60	55	-5	-8.3%
SUBTOTAL INFRASTRUCTURE AREA	87.1	938	792	-146	-15.6%
FIRE STATION NET FUNCTIONAL AREA					
	1,031.6	11,105	11,447	342	3.1%
NON-FUNCTION SPACE					
Circulation	141.7	1,625	1,030	-495	-32.5%
Entries	79	79	79	0	0.0%
Walls	75.6	813	1,651	837	102.9%
SUBTOTAL NON-FUNCTION AREA	217.2	2,338	2,759	421	18.0%
TOTAL FIRE STATION GROSS AREA					
	1,248.9	13,443	14,206	763	5.7%
FIRE STATION DESIGN EFFICIENCY					
			76%	75%	

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



Jacobs Project No.: FDYD3106

Drawing Title:
COMPOSITE A - SATELLITE ARFF SITE AND PROGRAM

Date: DECEMBER 2013

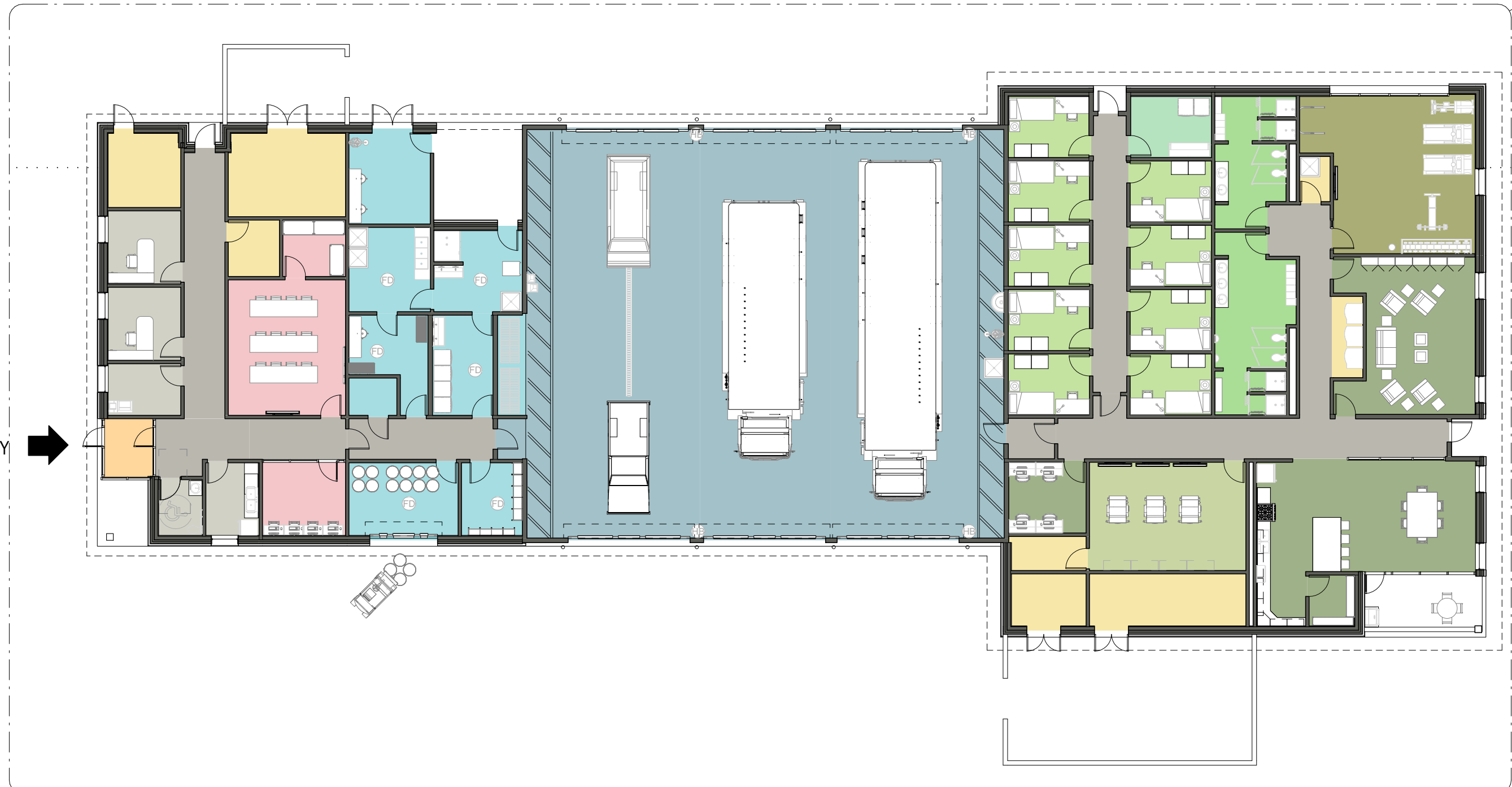
Designed By: LEG

Drawn By: KLV

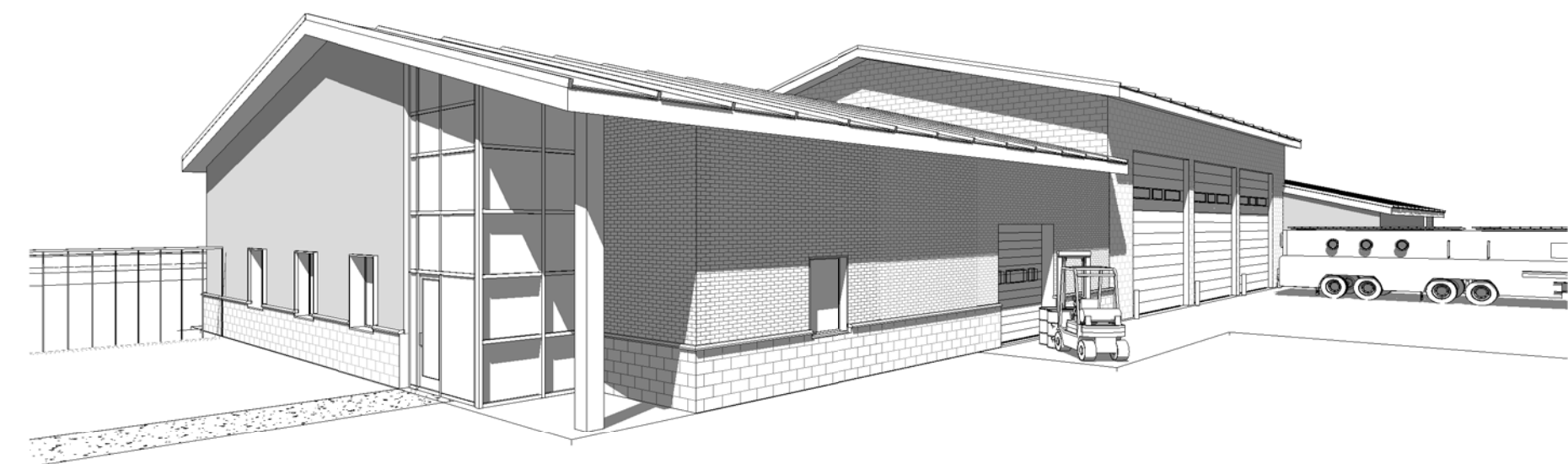
Checked By: JW

Drawing No.:
CO209

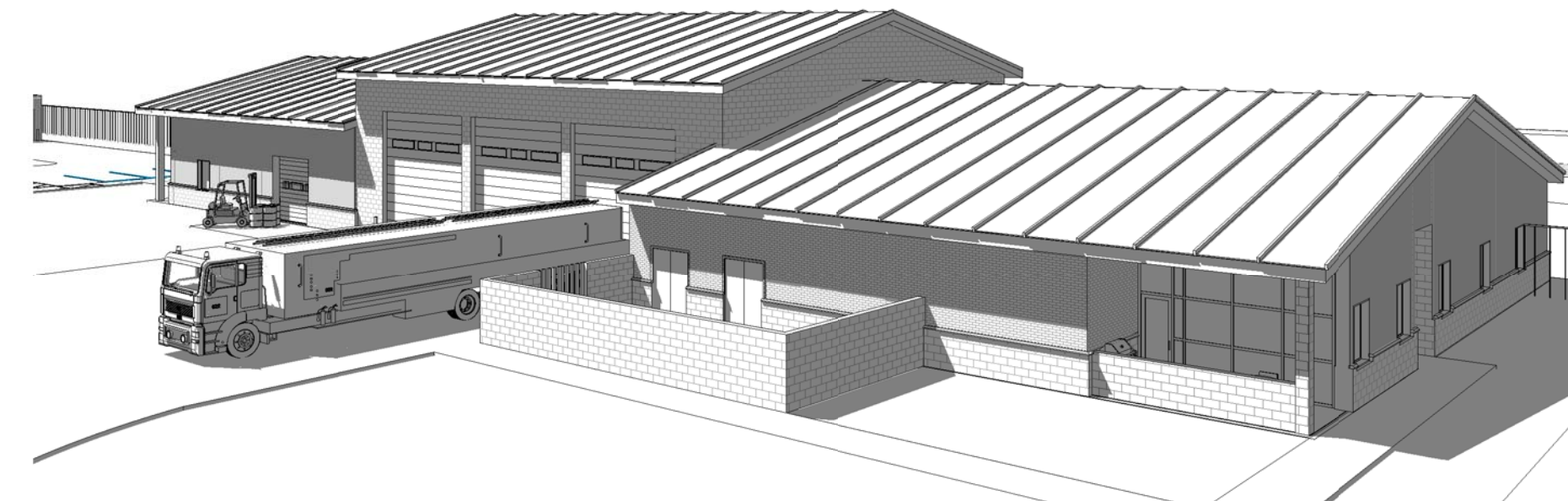
1/7/2014 2:53:54 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET



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



2 COMPOSITE A - SATELLITE ARFF ENTRY PERSPECTIVE

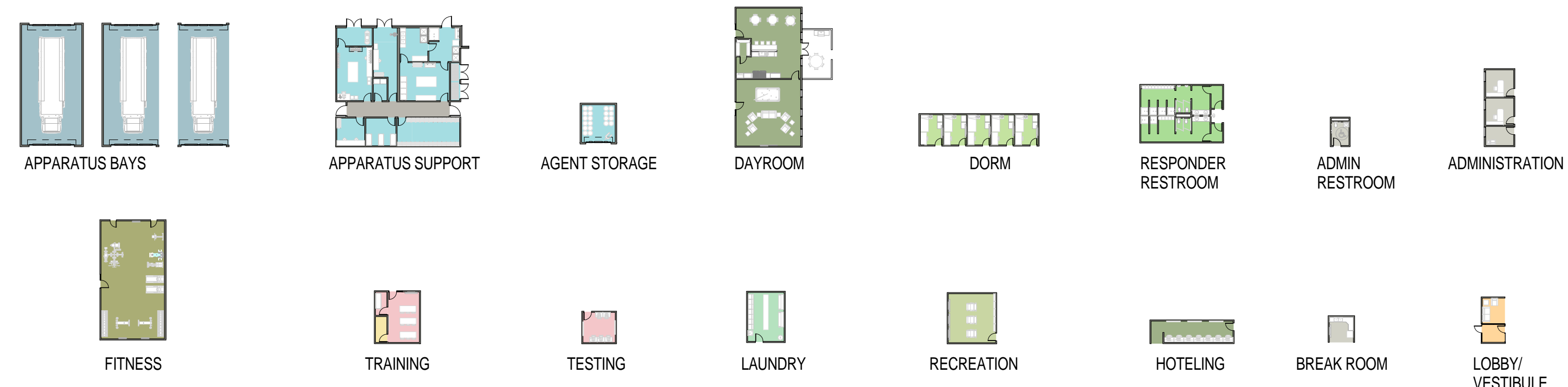


3 COMPOSITE A - SATELLITE ARFF OVERALL PERSPECTIVE

GENERAL NOTES

1. COMPOSITE PLANS ARE NOTIONAL LAYOUTS PROVIDED TO DEMONSTRATE REQUIRED ADJACENCIES AND ILLUSTRATE POSSIBLE CONFIGURATIONS.
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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 A - SATELLITE ARFF OVERALL FLOOR PLAN AND PERSPECTIVES

Date: DECEMBER 2013

Designed By: LEG

Drawn By: KLV

Checked By: JW

Drawing No.:

CO210

17/2014 2:56:21 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

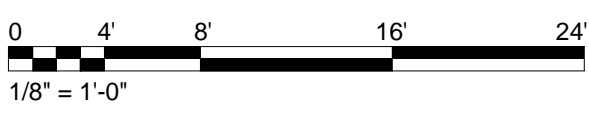
D
C
B
A

1 2 3 4 5



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

FIRE STATION SATELLITE



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

17/2014 2:57:06 PM
SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

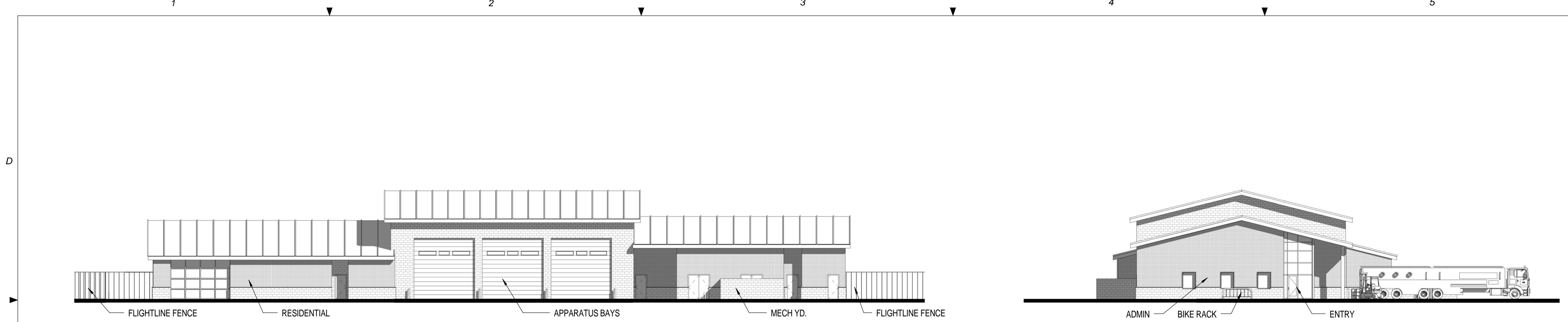
Jacobs Project No.: FDYD3106

Drawing Title:
COMPOSITE A - SATELLITE
ARFF ENLARGED FLOOR
PLAN

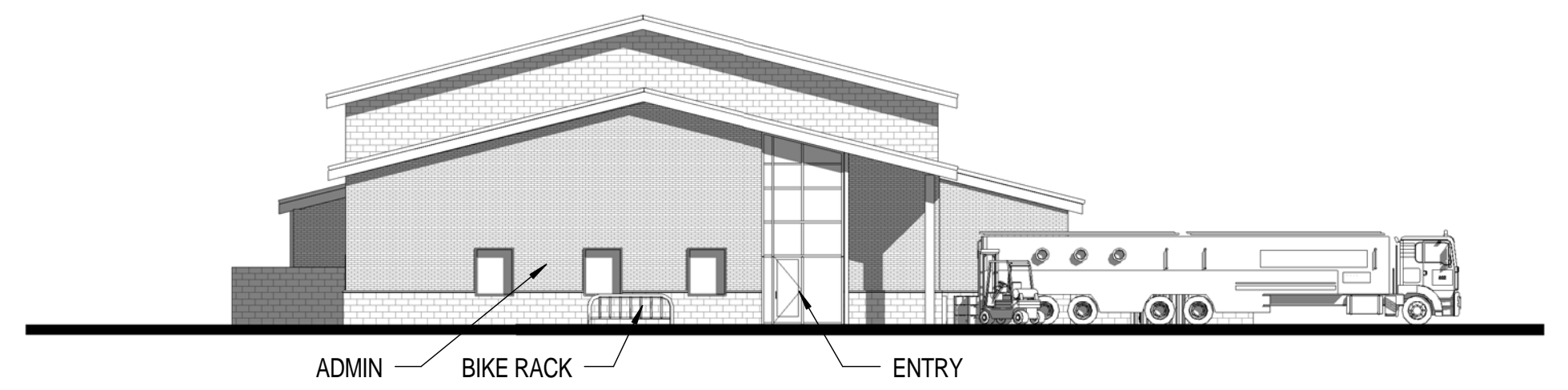
Date: DECEMBER 2013

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

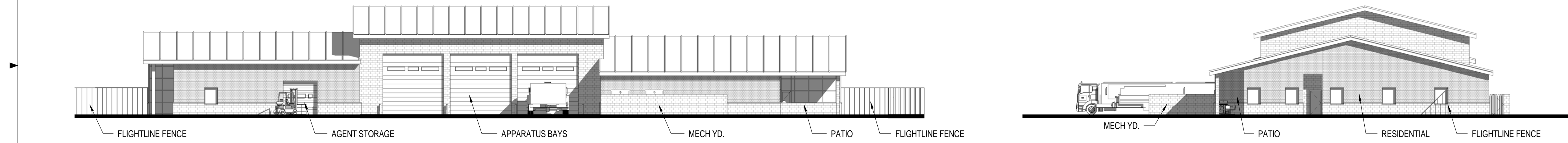
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CO211



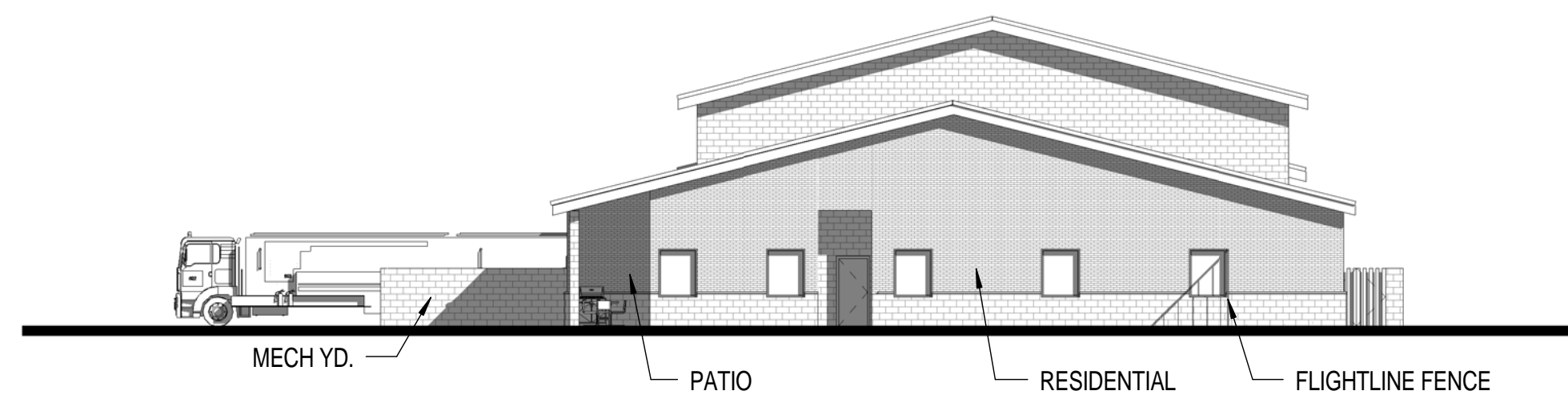
① COMPOSITE A - ELEVATION 1
1/16" = 1'-0"



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



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

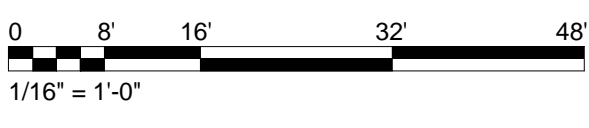


④ SATELLITE ARFF A ELEVATION 4
1/16" = 1'-0"

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

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 - SATELLITE
ARFF ELEVATIONS**

Date: DECEMBER 2013

Designed By: LEG

Drawn By: KIW

Checked By: JW

CO212

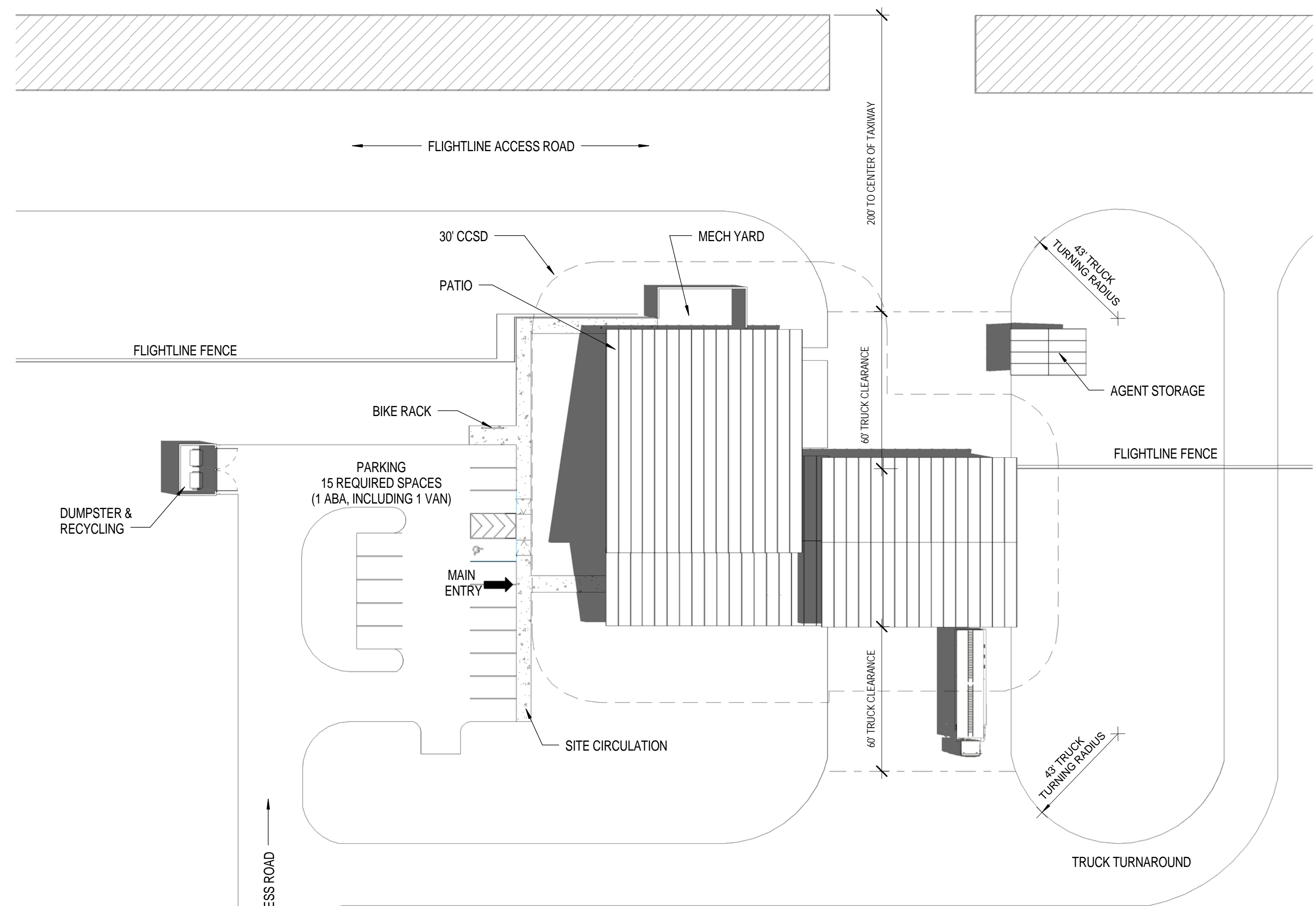
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COMPOSITE PLAN AND SITE NOTES

- 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.
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- 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



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

Prototype Fire Station - Satellite ARFF - Composite B 0 Structural, 3 ARFF Companies with 9 Responders		REQUIREMENTS UFC Planning Template (Rev 2011) SM (Required) SF		AS DESIGNED		COMMENTS	
Modules		SF	Delta (SF)	Delta (%)			
MAINTENANCE & APPARATUS AREA							
Apparatus Bays	Apparatus Bay	387.9	3,960	4,427	467	11.8%	
	Small Vehicle (two per bay, if needed)	1					
	Medium Structural	0					
	Large Structural	0					
	Medium ARFF	1					
	Large ARFF	1					
Apparatus Support	Agent Storage (ARFF)	13.9	150	155	5	3.3%	
	EMS Storage - Closet	3.7	40	0	0.0%		
	Equipment Wash / Disinfection	13.9	150	148	-2	-1.3%	
	Fire Extinguisher Inspection	2.2	24	25	1	4.2%	
	Flightline Fire Extinguishing Maintenance and Storage	14.9	160	164	4	2.5%	
	Flightline Fire Extinguishing Tank Recovery Ext. Covered Storage	1.9	20	20	-1	-2.5%	Calculated at half area
	Hose Storage	5.0	54	63	9	16.7%	
	Infectious Control	14.9	160	158	-2	-1.3%	
	Non-Flightline Fire Extinguishing Maintenance and Storage	0.0	0	0	0	0.0%	
	PPE Gear Storage	8.4	90	87	-3	-3.3%	
Protective Clothing Laundry	12.5	135	142	7	5.2%		
Spare Flightline Fire Extinguishing Tank Exterior Covered Storage	8.4	90	88	-2	-2.2%	Calculated at half area	
Work Room / Equipment Maintenance	11.1	120	122	2	1.7%		
SUBTOTAL MAINTENANCE & APPARATUS AREA		464.8	5,003	5,484	481	9.6%	
DAY ROOM & RESIDENTIAL AREA							
Day	Day Room	100.3	1,080	1,078	-2	-0.2%	
	Host Nation Day Room	0.0	0	0	0	0.0%	
	Hoteling Stations	11.1	120	120	0	0.0%	
	Patio	11.8	125	102	-24	-18.8%	Calculated at half area
Dorm Rooms	Physical Therapy / Sauna	0.0	0	0	0	0.0%	
	Dorm Rooms	90.3	972	972	0	0.0%	
Restrooms	Bathrooms / Showers / Changing - Female Responders	16.4	176	182	6	3.4%	
	Lavatories	2					
	Water Closets	2					
	Showers	3					
	Lockers	3					
	Bathrooms / Showers / Changing - Male Responders	30.9	333	323	-10	-3.0%	
	Lavatories	3					
Water Closets / Urinals	4						
Laundry	Showers	2					
	Lockers	6					
Laundry	Laundry Room	10.0	108	105	-3	-2.8%	
Fitness	Fitness Room	50.2	540	571	31	5.7%	
	Recreation	33.4	360	350	-11	-3.3%	
SUBTOTAL DAY ROOM & RESIDENTIAL AREA		364.3	3,814	3,812	-3	-0.1%	

PREDESIGN AREA MATRIX

Prototype Fire Station - Satellite ARFF - Composite B 0 Structural, 3 ARFF Companies with 9 Responders		REQUIREMENTS UFC Planning Template (Rev 2011) SM (Required) SF		AS DESIGNED		COMMENTS
Modules		SF	Delta (SF)	Delta (%)		
TRAINING & ADMINISTRATIVE AREA						
Lobby	Lobby Area	9.3	100	0	-100	-100.0%
	Main Entry Vestibule	5.5	64	109	45	70.3%
Admin and Offices	Public Toilet (ADA-compliant, unisex)	5.6	60.0	66	6	0
	Administration & Training Break Room	9.3	100.0	100	0	0
	Assistant Chief / Shift Supervisor	11.1	120	120	0	0.0%
	General Administration Storage	7.4	80	85	5	6.3%
	Station Chief Office / Watch Desk	11.1	120	120	0	0.0%
Training and Testing	Computer Training / Testing Room	13.0	140	143	3	2.1%
	Training Room	31.2	336	368	32	9.5%
	Training Room Storage	7.4	80	85	5	6.3%
SUBTOTAL TRAINING & ADMINISTRATIVE AREA		111.5	1,200	1,198	-4	-0.3%
FIRE STATION NET ASSIGNED FLOOR AREA		930.6	10,017	10,491	474	4.7%
INFRASTRUCTURE						
Facility Maint	Custodial	4.7	51	23	-28	-54.6%
	Electrical Rooms	18.6	203	114	-89	-43.8%
Mechanical / Electrical	Mechanical Room - Admin Area	15.6	168	0	-168	-100.0%
	Mechanical Room - Responders Area	31.2	336	250	-86	-25.6%
Telecomm / IT	Base IT / Comms Room(s)	5.6	60	89	29	48.3%
	IT / Comms	5.6	60	0	-60	-100.0%
Vending	Vending / Recycling	5.6	60	43	-17	-28.3%
SUBTOTAL INFRASTRUCTURE AREA		87.1	938	519	-419	-44.6%
FIRE STATION NET FUNCTIONAL AREA		1,017.7	10,955	11,010	55	0.5%
NON-FUNCTION SPACE						
Circulation	Corridors, Halls, and other Interior Circulation	139.6	1,503	1,122	-381	-25.3%
	Entries	89	88	88	0	0.0%
	Covered Exterior Entries	74.4	801	1,681	880	109.8%
Walls	Interior Partitions and Walls	214.0	2,304	2,892	588	25.5%
SUBTOTAL NON-FUNCTION AREA		428.0	4,696	3,673	-1,023	-21.8%
TOTAL FIRE STATION GROSS AREA		1,231.7	13,259	13,902	643	4.9%
FIRE STATION DESIGN EFFICIENCY				76%	75%	

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

FIRE STATION
SATELLITE



Jacobs Project No.: FDYD3106

Drawing Title:
COMPOSITE B - SATELLITE ARFF SITE AND PROGRAM

Date: DECEMBER 2013
Designed By: LEG
Drawing No.: CO213
Drawn By: KLW
Checked By: JW

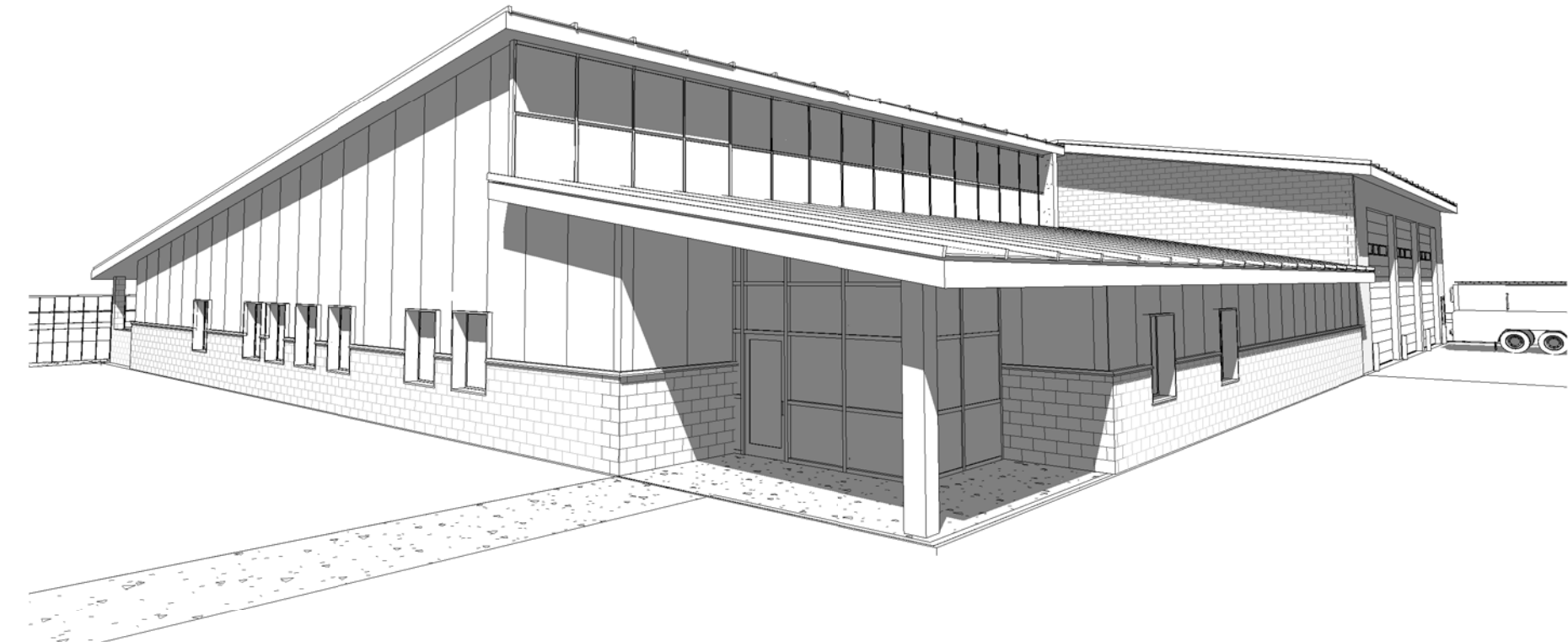
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SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

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

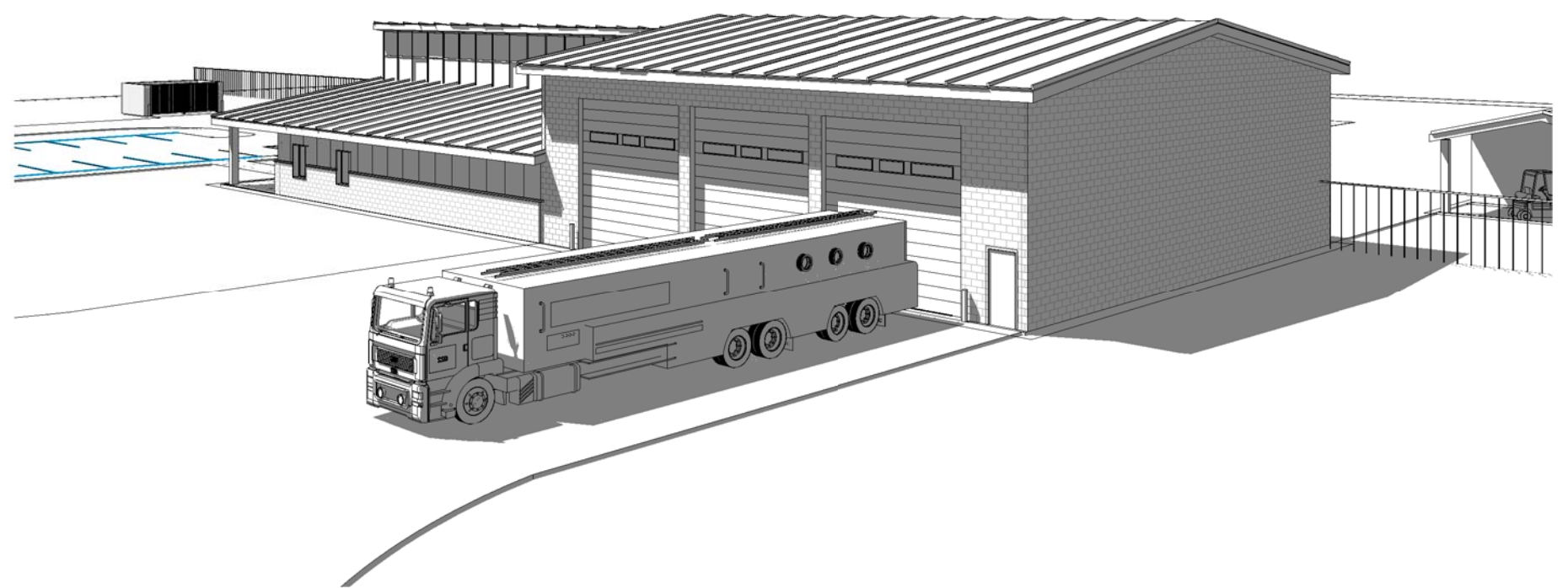
**FIRE STATION
SATELLITE**



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



2 COMPOSITE B - SATELLITE ARFF ENTRY PERSPECTIVE

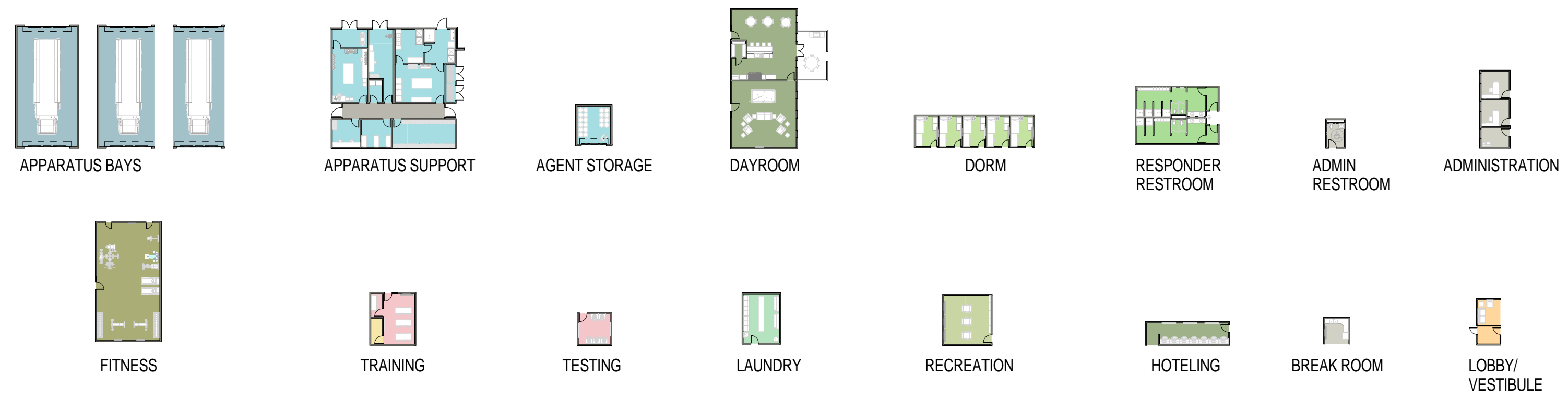


3 COMPOSITE B - SATELLITE ARFF OVERALL PERSPECTIVE

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

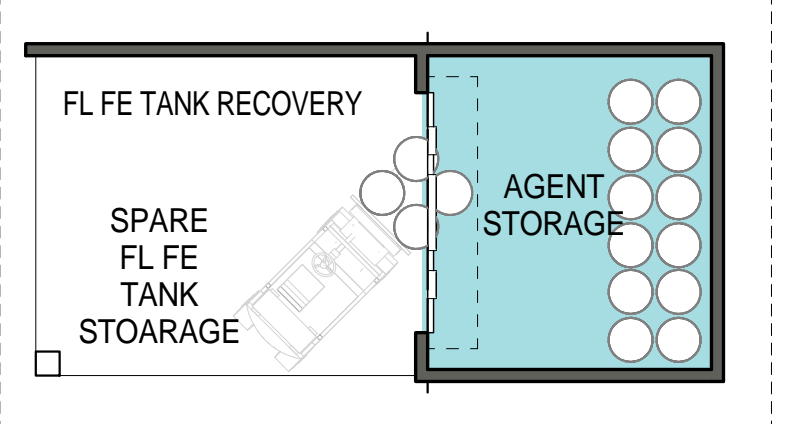
Drawing Title:
COMPOSITE B - SATELLITE ARFF OVERALL FLOOR PLAN AND PERSPECTIVES

Date: DECEMBER 2013

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

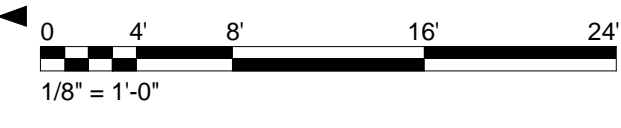
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AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:

**FIRE STATION
SATELLITE**



Jacobs Project No.: FDYD3106

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

Date: DECEMBER 2013

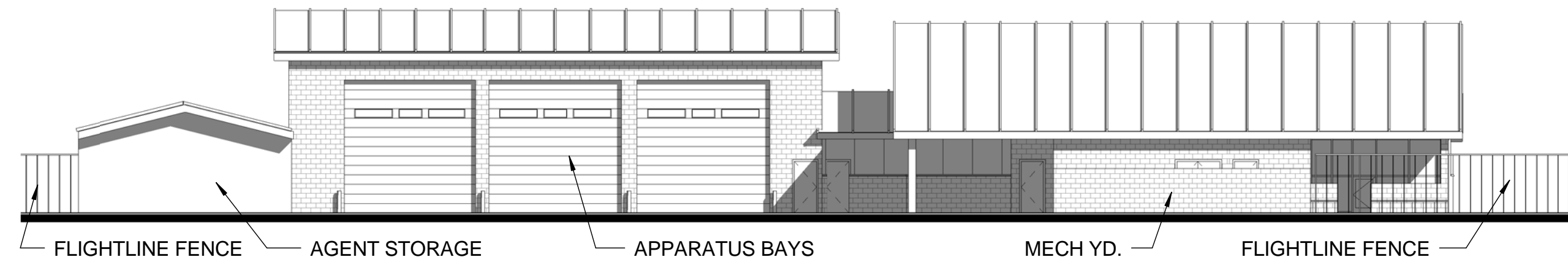
Designed By: LEG
Drawn By: KIW
Checked By: JW

Drawing No.:
CO215

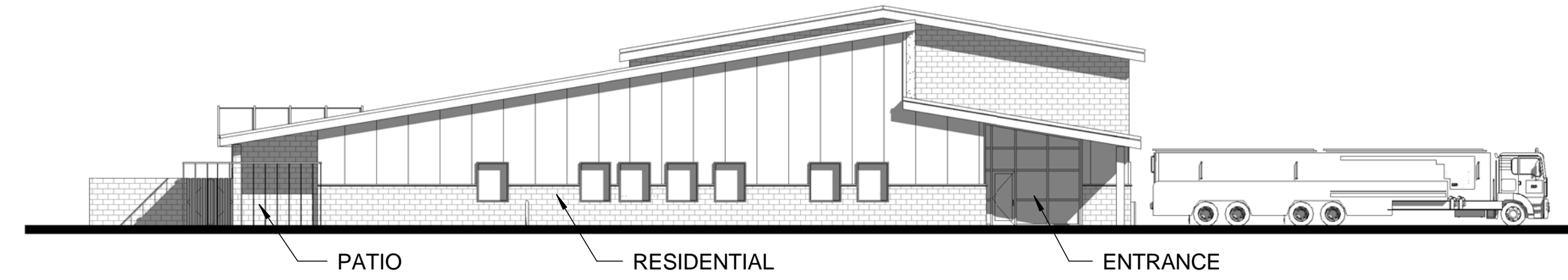
1 COMPOSITE B - ENLARGED FLOOR PLAN
1/8" = 1'-0"

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

1/7/2014 3:00:50 PM



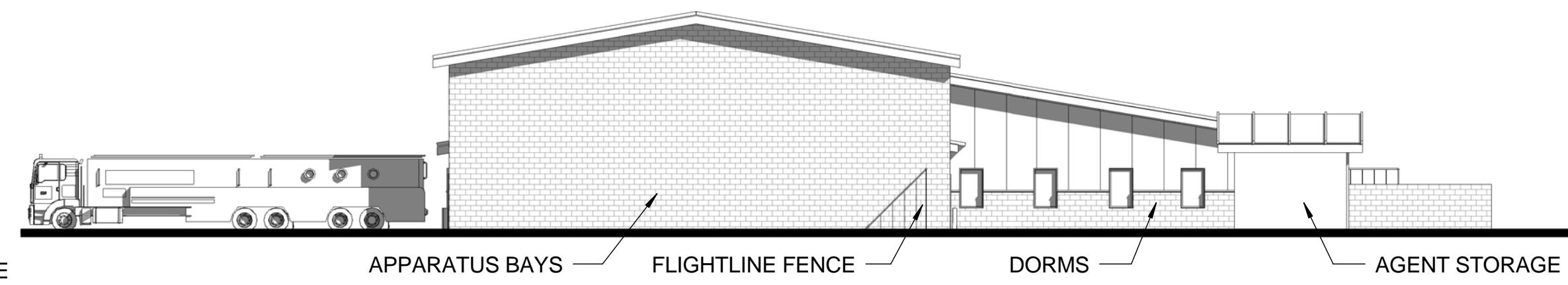
① COMPOSITE B - ELEVATION 1
1/16" = 1'-0"



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

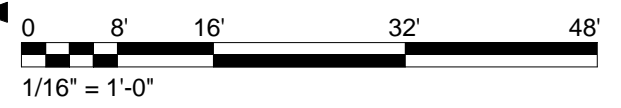


③ COMPOSITE B - ELEVATION 3
1/16" = 1'-0"



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

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



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 - SATELLITE
ARFF ELEVATIONS**

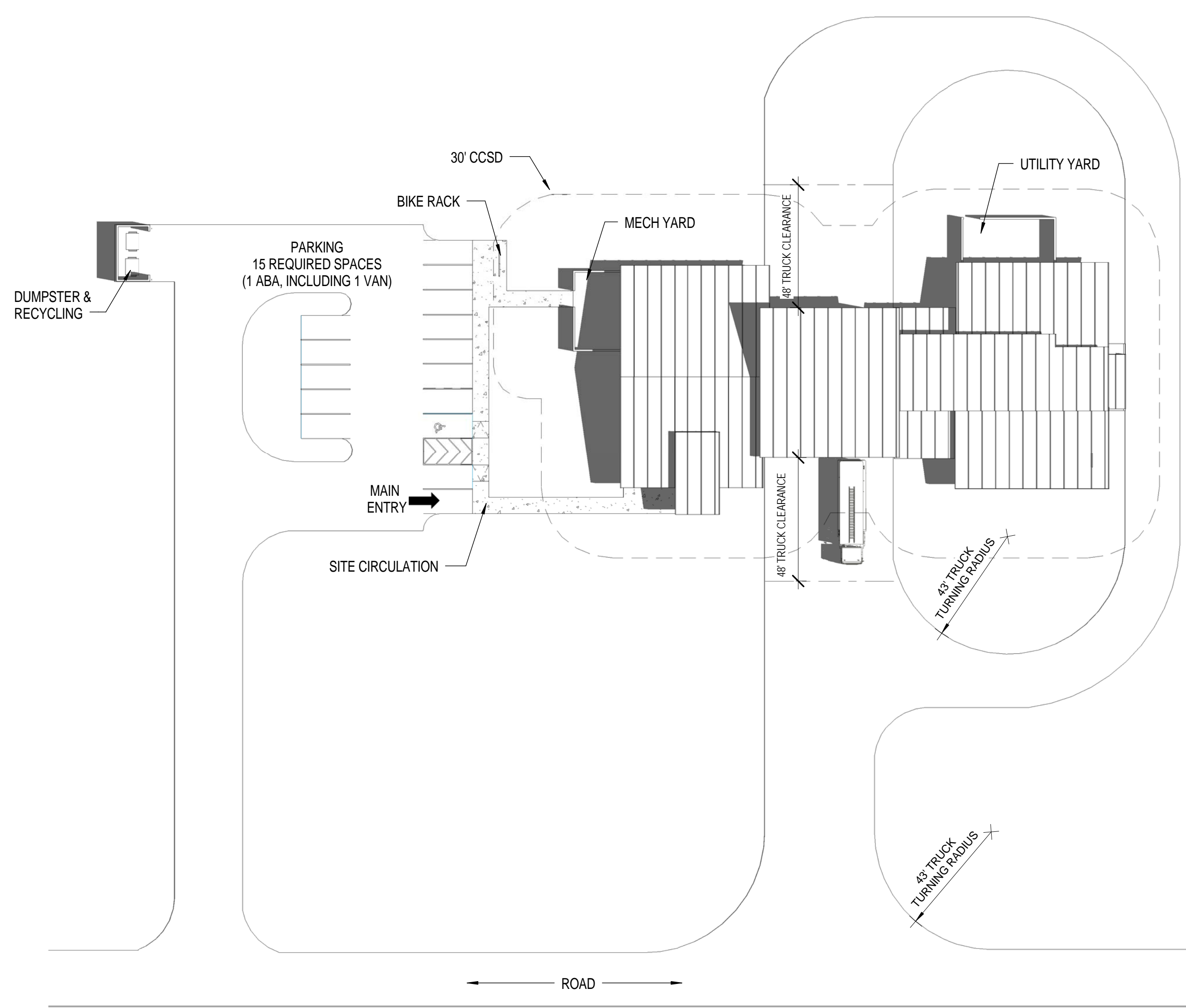
Date: DECEMBER 2013

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

Drawing No.:
CO216

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



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

Prototype Fire Station - Satellite Structural - Composite A 2 Structural, 0 ARFF Companies with 8 Responders		REQUIREMENTS UFC Planning Template (Rev 2011)		AS DESIGNED		COMMENTS
Modules		SF	Delta (SF)	Delta (%)		
MAINTENANCE & APPARATUS AREA						
Apparatus Bay	Apparatus Bay	173.9	1,872	2,391	519	27.7%
Apparatus Bays	Small Vehicles (two per bay, if needed)	0				
	Medium Structural	2				
	Large Structural	0				
	Medium ARFF	0				
	Large ARFF	0				
Apparatus Support	Agent Storage (Structural)	4.5	48	54	6	12.5%
	EMS Storage - Closet	3.7	40	36	-4	-10.0%
	Equipment Wash / Disinfection	13.9	150	150	0	0.0%
	Hose Storage	5.0	54	54	0	0.0%
	Infectious Control	14.9	160	151	-9	-5.6%
	Non-Flightline Fire Extinguishing Maintenance and Storage	11.1	120	128	8	6.7%
	PPE Gear Storage	7.4	80	82	2	2.5%
	Protective Clothing Laundry	11.1	120	120	0	0.0%
Work Room / Equipment Maintenance	11.1	120	120	0	0.0%	
SUBTOTAL MAINTENANCE & APPARATUS AREA		256.8	2,764	3,286	522	18.9%
DAY ROOM & RESIDENTIAL AREA						
Day	Day Room	89.2	960	977	17	1.8%
	Hoteling Stations	11.1	120	120	0	0.0%
Dorm Rooms	Patio	7.0	75	75	0	0.0%
	Dorm Rooms	80.3	864	864	0	0.0%
Restrooms	Bathrooms / Showers / Changing - Female Responders	16.4	176	208	32	18.2%
	Lavatories	2				
	Water Closets	2				
	Showers	3				
	Lockers	1				
	Bathrooms / Showers / Changing - Male Responders	30.4	327	272	-55	-16.8%
	Lavatories	3				
	Water Closets / Urinals	4				
	Showers	2				
	Lockers	7				
Laundry	Laundry Room	8.9	96	96	0	0.0%
Fitness	Fitness Room	44.6	480	465	-15	-3.1%
	Recreation	33.4	360	364	4	1.1%
SUBTOTAL DAY ROOM & RESIDENTIAL AREA		321.2	3,458	3,441	-17	-0.5%

Prototype Fire Station - Satellite Structural - Composite A 2 Structural, 0 ARFF Companies with 8 Responders		REQUIREMENTS UFC Planning Template (Rev 2011)		AS DESIGNED		COMMENTS
Modules		SF	Delta (SF)	Delta (%)		
TRAINING & ADMINISTRATIVE AREA						
Lobby	Lobby Area	9.3	100	0	-100	-100.0%
Admin and Offices	Main Entry Vestibule	5.5	64	95	31	48.4%
	Public Toilet (ADA-compliant, unisex)	5.6	60.0	51	-9	-15.0%
	Administration & Training Break Room	9.2	100.0	98	-2	-2.0%
Training and Testing	Administration Assistant	0.0	0	0	0	0.0%
	Assistant Chief / Shift Supervisor	11.1	120	120	0	0.0%
	General Administration Storage	7.4	80	70	-10	-12.5%
	Station Chief Office / Watch Desk	11.1	120	120	0	0.0%
	Computer Training / Testing Room	13.0	140	140	0	0.0%
SUBTOTAL TRAINING & ADMINISTRATIVE AREA		111.6	1,200	1,124	-76	-6.3%
FIRE STATION NET ASSIGNED FLOOR AREA		689.5	7,422	7,851	429	5.8%
INFRASTRUCTURE						
Facility Maint.	Custodial	3.5	37	53	16	42.3%
Mechanical / Electrical	Electrical Rooms	13.5	149	281	132	88.6%
	Mechanical Room - Admin Area	15.6	168	170	2	1.2%
Telecomm / IT	Mechanical Room - Responders Area	31.2	336	261	-75	-22.3%
	Base IT / Comms Rooms	11.1	120	208	88	73.3%
	IT / Comms	5.6	60	51	-9	-15.0%
Vending	Vending / Recycling	3.7	40	41	1	2.5%
SUBTOTAL INFRASTRUCTURE AREA		84.6	910	1,065	155	17.0%
FIRE STATION NET FUNCTIONAL AREA		774.1	8,332	8,916	584	7.0%
NON-FUNCTION SPACE						
Circulation		103.4	1,113	1,453	340	30.5%
Entries		55.2	594	106	106	0.0%
Walls		158.6	1,707	1,458	-249	-14.5%
SUBTOTAL NON-FUNCTION AREA		217.2	2,414	1,605	-809	-33.5%
TOTAL FIRE STATION GROSS AREA		932.7	10,039	11,933	1,894	18.9%
FIRE STATION DESIGN EFFICIENCY		74%		66%		

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



Jacobs Project No.: FDYD3106

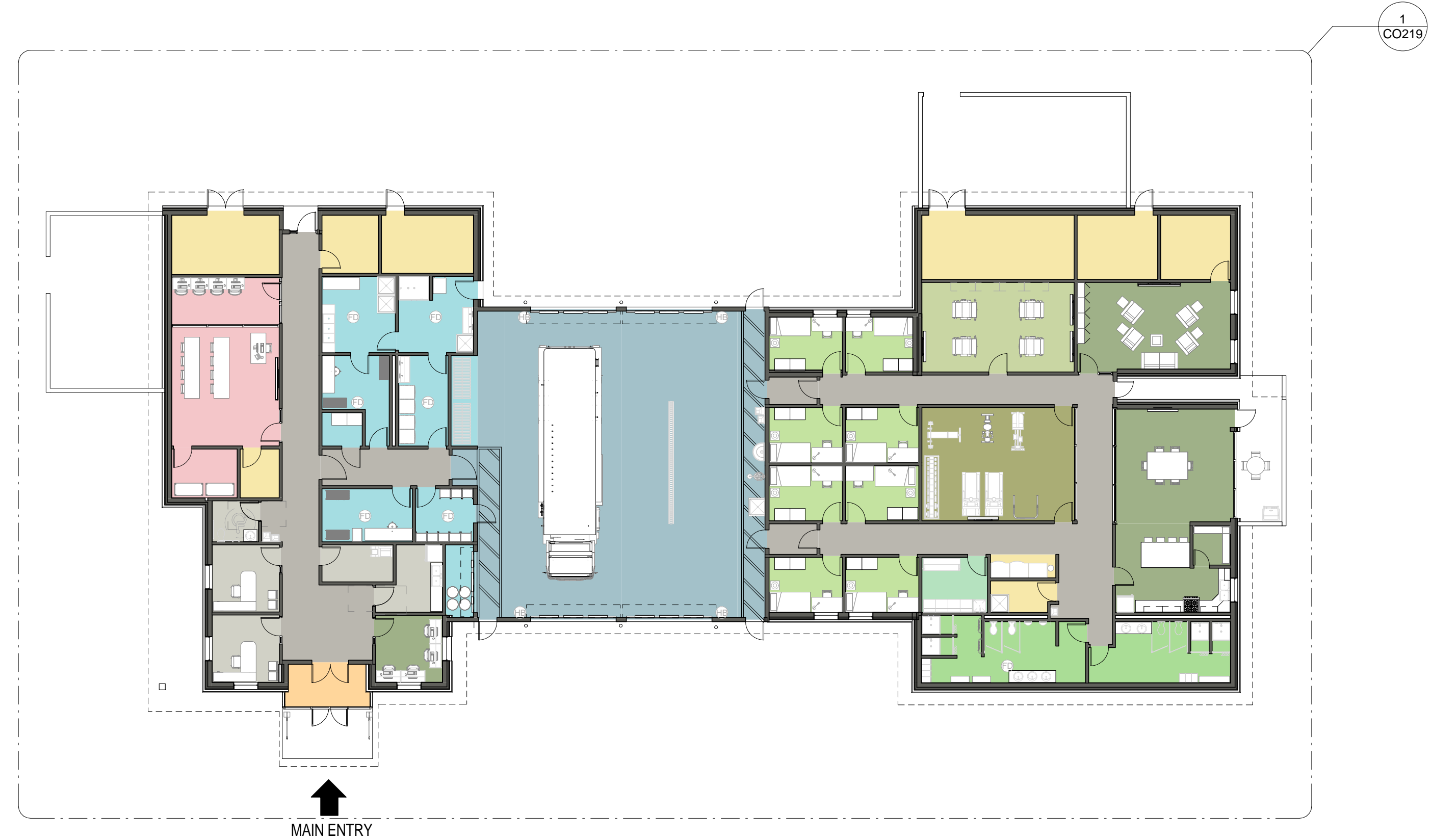
Drawing Title:
**COMPOSITE A - SATELLITE
STRUCTURAL SITE AND
PROGRAM**

Date: DECEMBER 2013

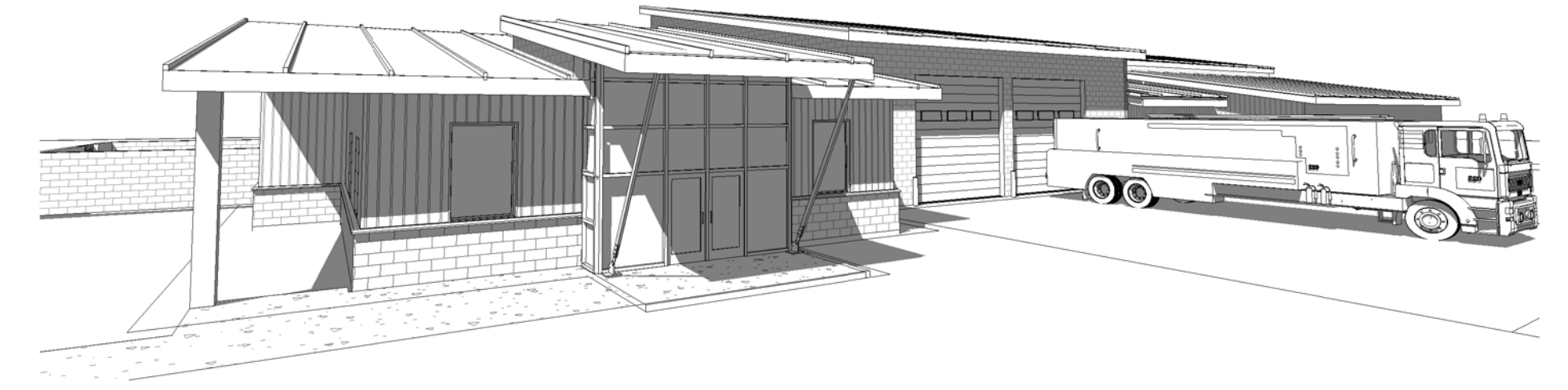
Designed By: LEG
Drawing No.:
Drawn By: KLV
Checked By: JW
CO217

PREDESIGN AREA MATRIX

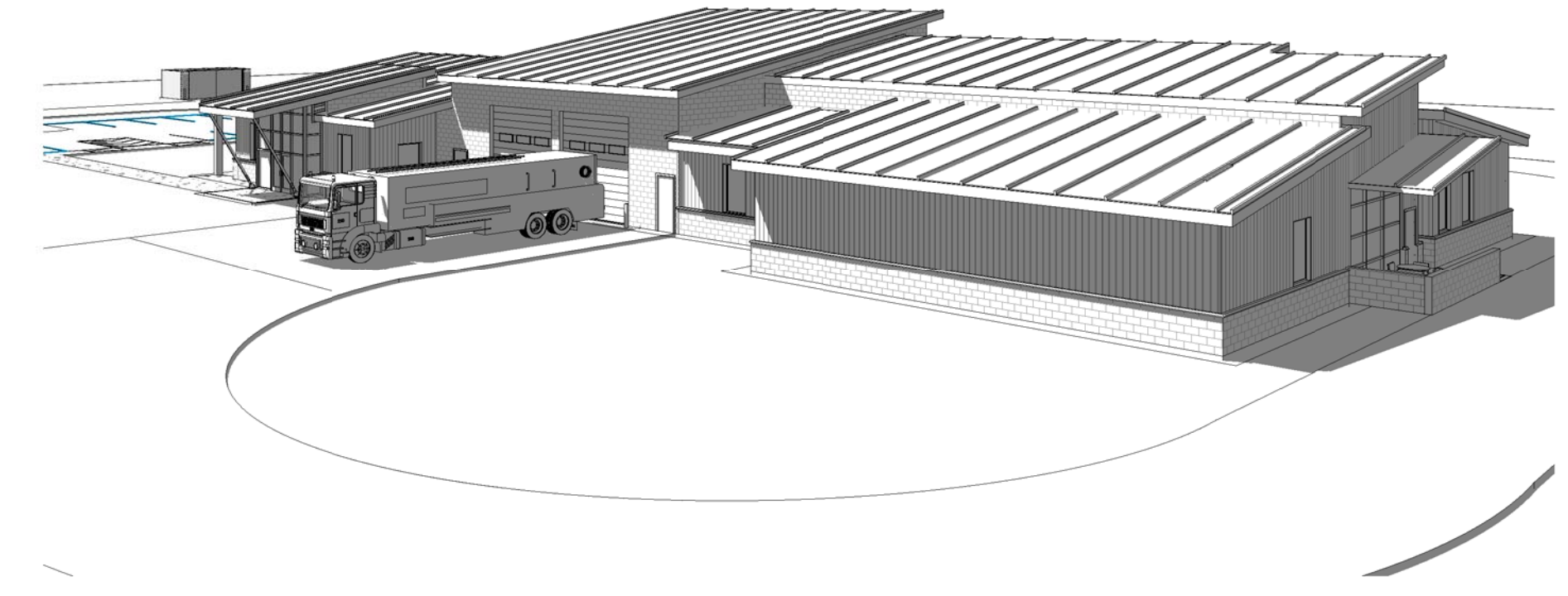
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1 COMPOSITE A - SATELLITE STRUCTURAL OVERALL FLOOR PLAN
1/16" = 1'-0"

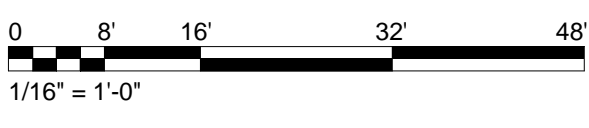


2 COMPOSITE A - SATELLITE STRUCTURAL ENTRY PERSPECTIVE



3 COMPOSITE A - STRUCTURAL OVERALL PERSPECTIVE

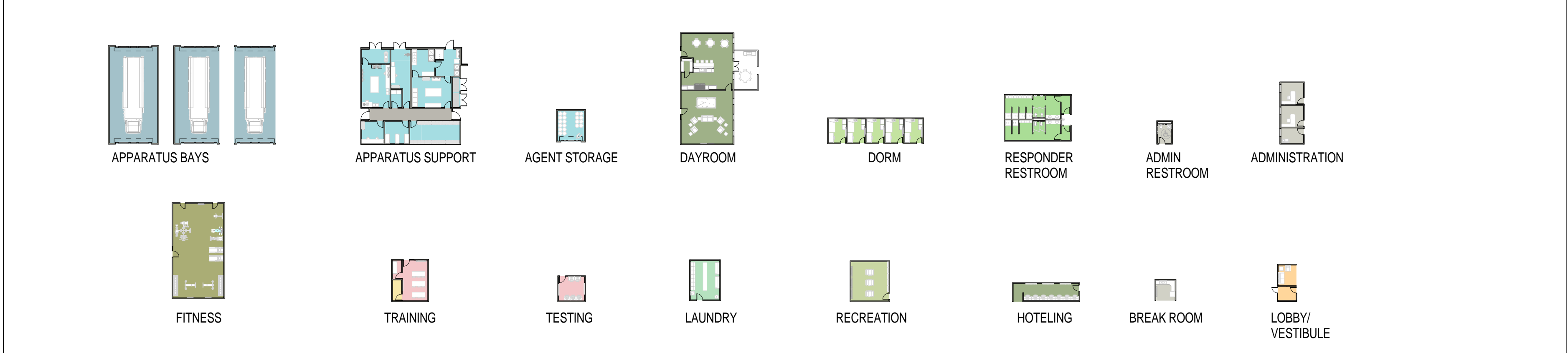
**AIR FORCE CIVIL ENGINEER CENTER (AFCEC)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR:
FIRE STATION
SATELLITE**



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 - SATELLITE
STRUCTURAL OVERALL
FLOOR PLAN AND
PERSPECTIVES**

Date: DECEMBER 2013

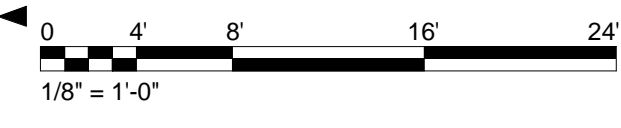
Designed By: LEG
Drawn By: KIW
Checked By: JW

CO218

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



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

17/2014 3:04:47 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET

Jacobs Project No.: FDYD3106

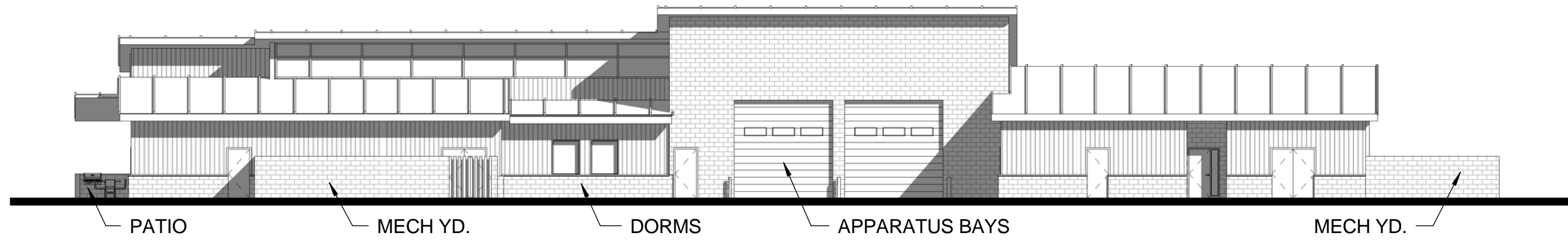
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**COMPOSITE A - SATELLITE
 STRUCTURAL ENLARGED
 FLOOR PLAN**

Date: DECEMBER 2013

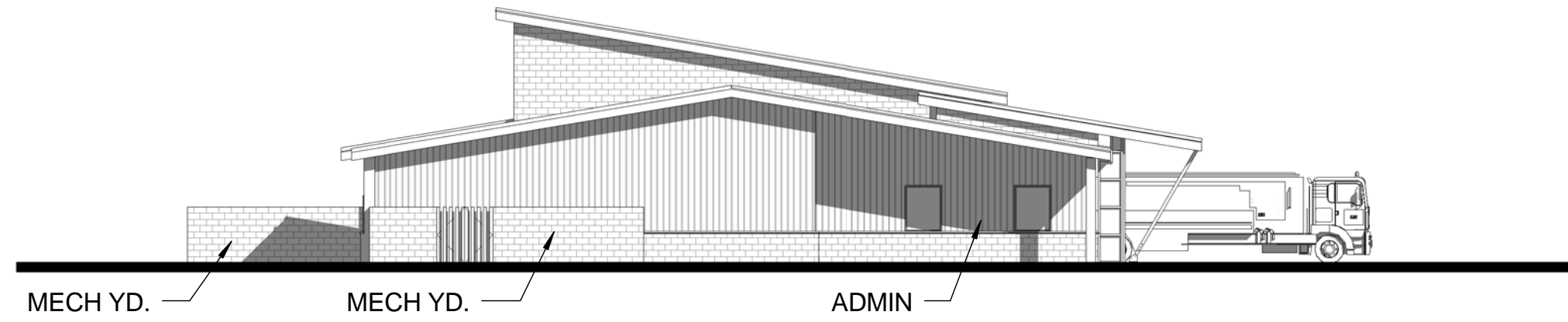
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 Checked By: JW

CO219

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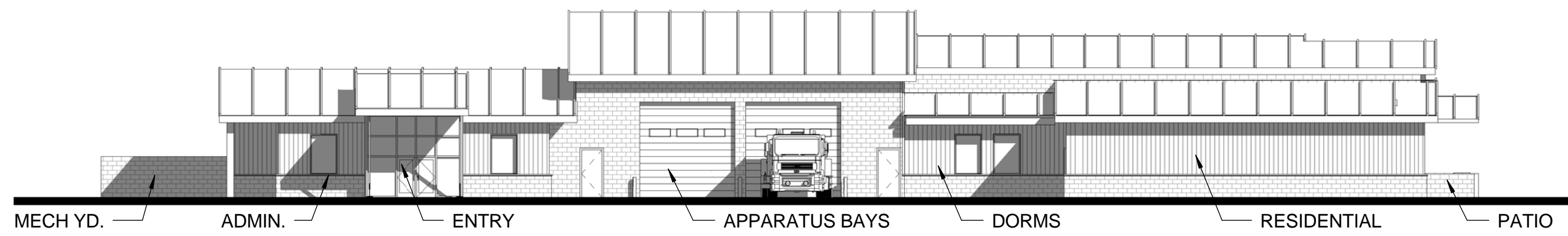


① COMPOSITE A - ELEVATION 1
1/16" = 1'-0"

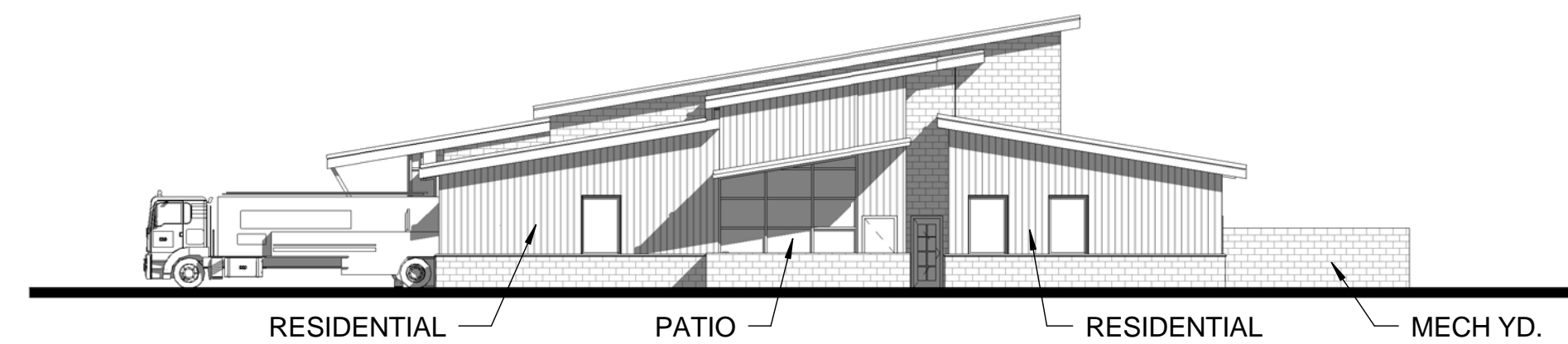


② COMPOSITE A - ELEVATION 2
1/16" = 1'-0"

C



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



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

B

A

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



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 - SATELLITE
STRUCTURAL ELEVATIONS**

Date: DECEMBER 2013

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

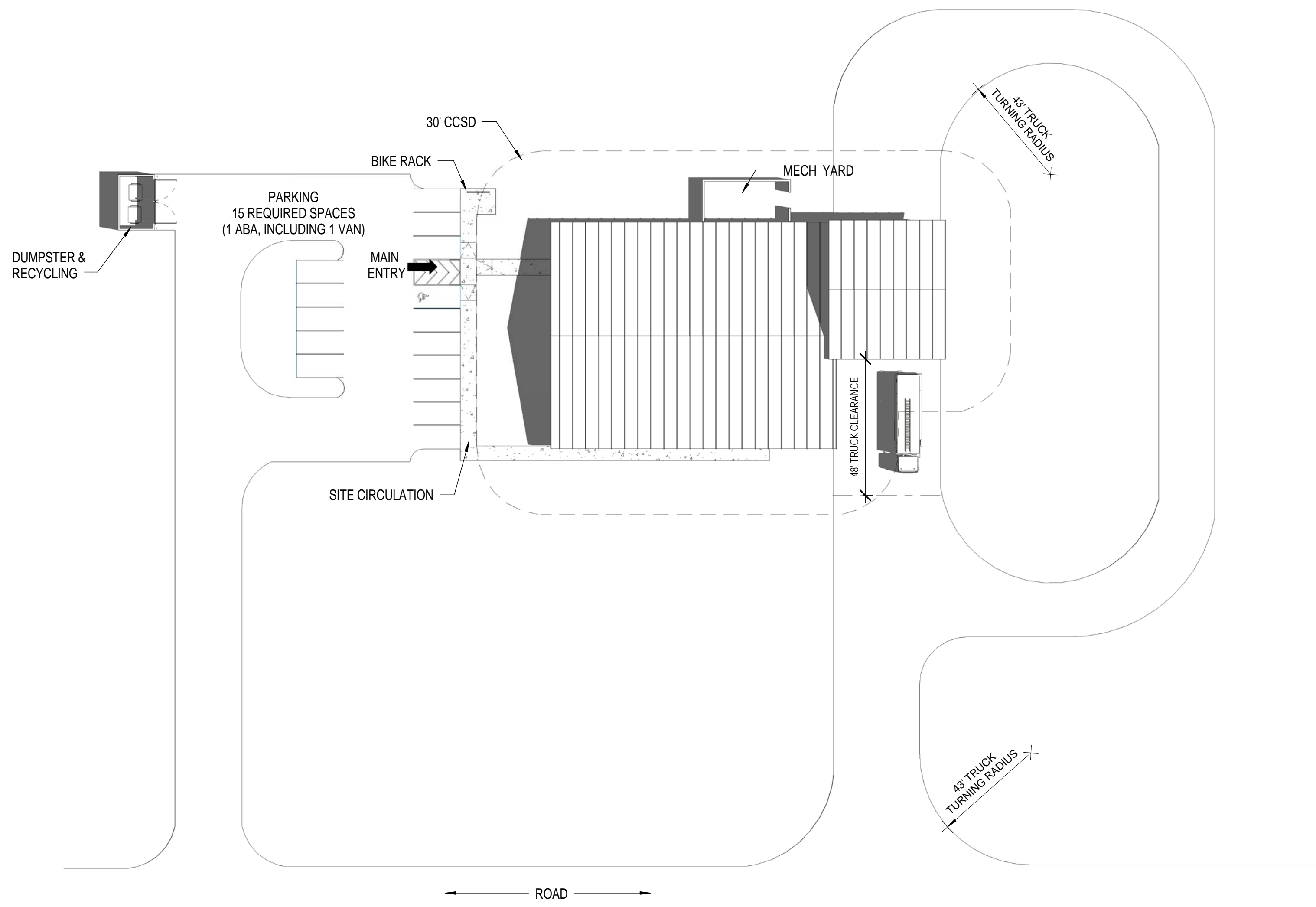
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COMPOSITE PLAN AND SITE NOTES

- 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



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

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

Prototype Fire Station - Satellite Structural - Composite B 2 Structural, 0 ARFF Companies with 8 Responders		REQUIREMENTS UFC Planning Template (Rev 2011)		AS DESIGNED		COMMENTS
Modules		SQ	SF	SF	Delta (SF)	
MAINTENANCE & APPARATUS AREA						
Apparatus Bay		173.9	1,872	1,971	99	5.3%
Apparatus Bays						
Small Vehicle (two per bay, if needed)		0				
Medium Structural		2				
Large Structural		0				
Medium ARFF		0				
Large ARFF		0				
Apparatus Support						
Agent Storage (Structural)		4.5	48	50	2	4.2%
EMS Storage - Closet		3.7	40	39	-1	-2.5%
Equipment Wash / Disinfection		13.9	150	150	0	0.0%
Hose Storage		5.0	54	57	3	5.6%
Infectious Control		14.9	160	160	0	0.0%
Non-Flightline Fire Extinguishing Maintenance and Storage		11.1	120	120	0	0.0%
PFE Gear Storage		7.4	80	82	2	2.5%
Protective Clothing Laundry		11.1	120	120	0	0.0%
Work Room / Equipment Maintenance		11.1	120	120	0	0.0%
SUBTOTAL MAINTENANCE & APPARATUS AREA		252.3	2,716	2,819	103	3.8%
DAY ROOM & RESIDENTIAL AREA						
Day						
Day Room		89.2	960	1,033	73	7.6%
Hoteling Stations		11.1	120	120	0	0.0%
Patio		7.0	75	48	-28	-38.7%
Dorm Rooms						
Dorm Rooms		80.3	864	880	16	1.9%
Bathrooms / Showers / Changing - Female Responders		16.4	176	193	17	9.7%
Restrooms						
Bathrooms / Showers / Changing - Male Responders		30.4	327	298	-29	-8.9%
Laundry						
Laundry Room		8.9	96	96	0	0.0%
Fitness Room		44.6	480	461	-19	-4.0%
Recreation Room		33.4	360	365	5	1.4%
SUBTOTAL DAY ROOM & RESIDENTIAL AREA		321.2	3,458	3,494	36	1.0%

Prototype Fire Station - Satellite Structural - Composite B 2 Structural, 0 ARFF Companies with 8 Responders		REQUIREMENTS UFC Planning Template (Rev 2011)		AS DESIGNED		COMMENTS
Modules		SQ	SF	SF	Delta (SF)	
TRAINING & ADMINISTRATIVE AREA						
Lobby						
Lobby Area		9.3	100	0	-100	-100.0%
Main Entry Vestibule		5.5	64	101	37	57.8%
Admin and Offices						
Public Toilet (ADA-compliant, unisex)		5.6	60.0	66	6	10.0%
Administration & Training Break Room		9.3	100.0	100	0	0.0%
Assistant Chief / Shift Supervisor		11.1	120	120	0	0.0%
General Administration Storage		7.4	80	80	0	0.0%
Station Chief Office / Watch Desk		11.1	120	120	0	0.0%
Training and Testing						
Computer Training / Testing Room		13.0	140	140	0	0.0%
Training Room		31.2	336	336	0	0.0%
Training Room Storage		7.4	80	80	0	0.0%
SUBTOTAL TRAINING & ADMINISTRATIVE AREA		111.6	1,200	1,143	-57	-4.8%
FIRE STATION NET ASSIGNED FLOOR AREA		685.0	7,374	7,456	82	1.1%
INFRASTRUCTURE						
Facility Maint.						
Custodial		3.5	37	13	-24	-65.1%
Mechanical / Electrical						
Electrical Rooms		13.6	149	115	-34	-22.8%
Mechanical Room - Admin Area		15.6	168	0	-168	-100.0%
Mechanical Room - Responders Area		31.2	336	176	-160	-47.6%
Telecomm / IT						
Base IT / Comms Room(s)		11.1	120	124	4	3.3%
IT / Comms		5.6	60	59	-1	-1.7%
Vending		3.7	40	43	3	7.5%
SUBTOTAL INFRASTRUCTURE AREA		84.6	910	530	-380	-41.8%
FIRE STATION NET FUNCTIONAL AREA		769.6	8,284	7,986	-299	-3.6%
NON-FUNCTION SPACE						
Circulation						
Corridors, Halls, and other Interior Circulation		102.6	1,106	1,559	453	40.5%
Entries						
Covered Exterior Entries		169	169	169	0	0.0%
Walls						
Interior Partitions and Walls		54.6	590	4,158	3,568	604.8%
SUBTOTAL NON-FUNCTION AREA		157.6	1,698	5,886	4,190	247.0%
TOTAL FIRE STATION GROSS AREA		927.2	9,980	13,871	3,891	39.0%
FIRE STATION DESIGN EFFICIENCY		74%		54%		

PREDESIGN AREA MATRIX



Jacobs Project No.: FDYD3106

Drawing Title:
COMPOSITE B - SATELLITE STRUCTURAL SITE AND PROGRAM

Date: DECEMBER 2013

Designed By: LEG

Drawn By: KLV

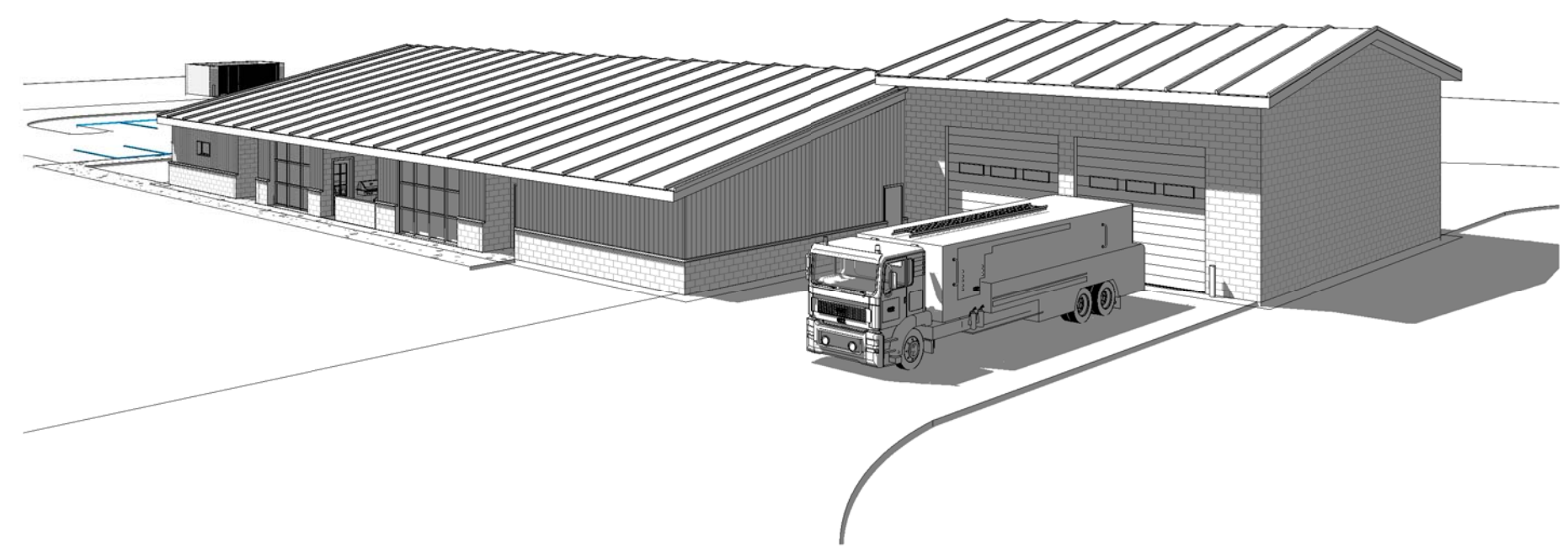
Checked By: JW

Drawing No.:
CO221

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2 COMPOSITE B - SATELLITE STRUCTURAL ENTRY PERSPECTIVE



3 COMPOSITE B - SATELLITE STRUCTURAL OVERALL PERSPECTIVE

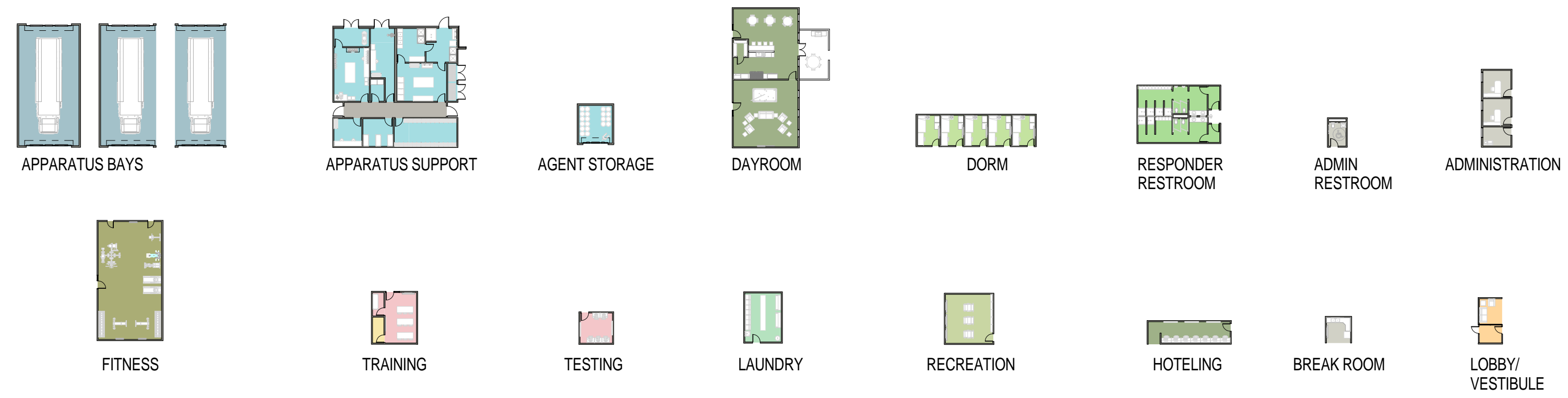


1 COMPOSITE B - SATELLITE STRUCTURAL OVERALL FLOOR PLAN
1/16" = 1'-0"

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

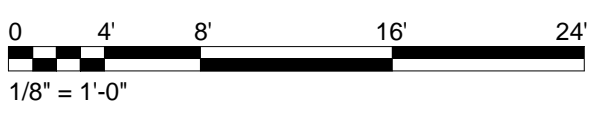


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1 COMPOSITE B - ENLARGED FLOOR PLAN
1/8" = 1'-0"

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



Jacobs Project No.: FDYD3106

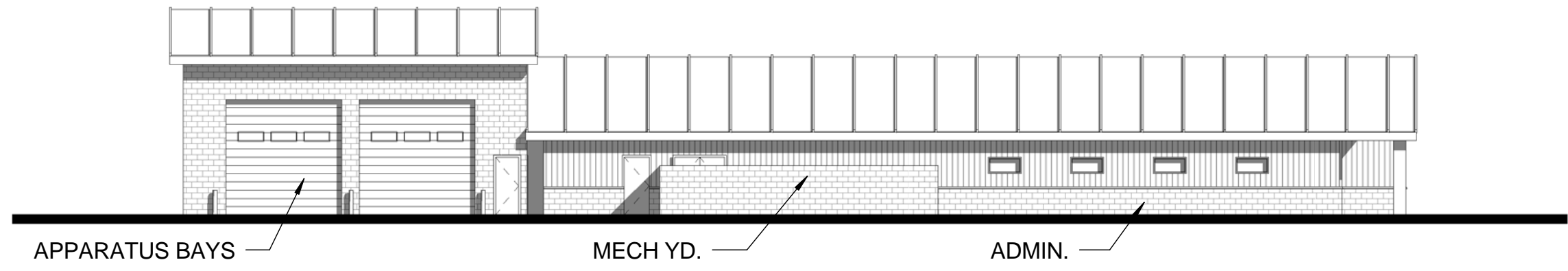
Drawing Title:
**COMPOSITE B - SATELLITE
STRUCTURAL ENLARGED
FLOOR PLAN**

Date: DECEMBER 2013

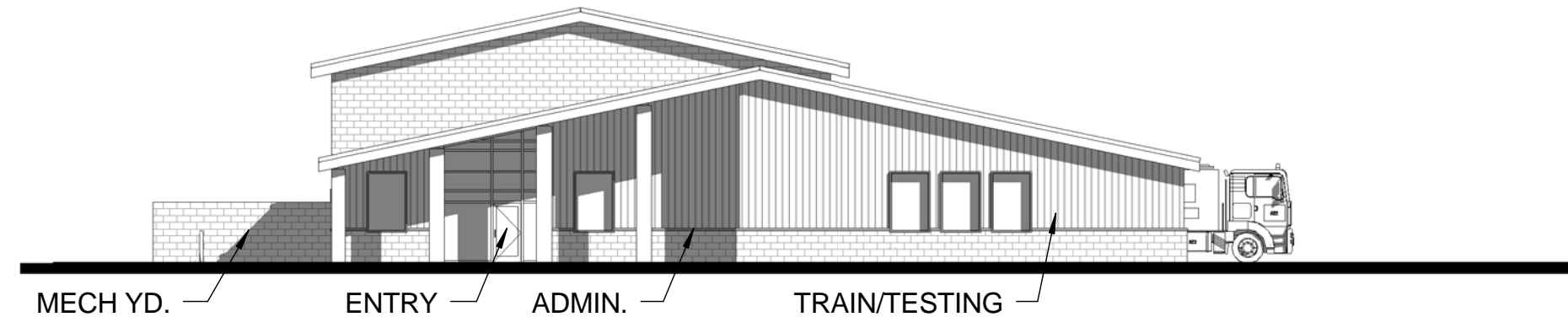
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Checked By: JW

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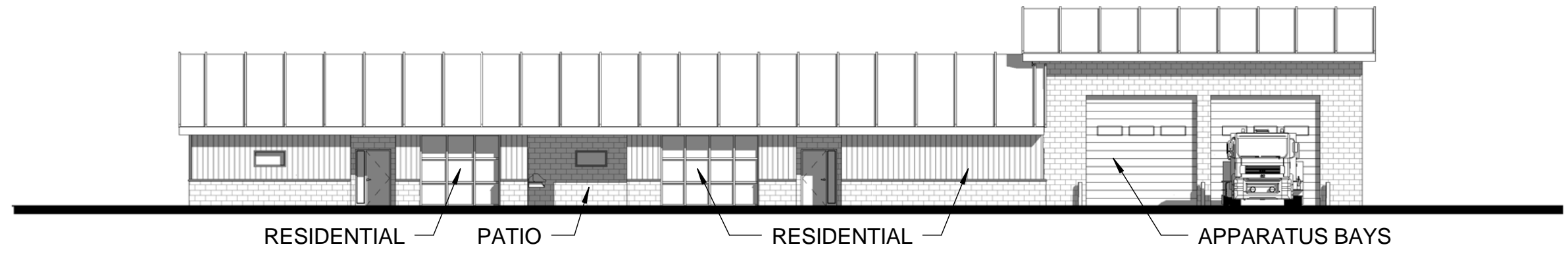
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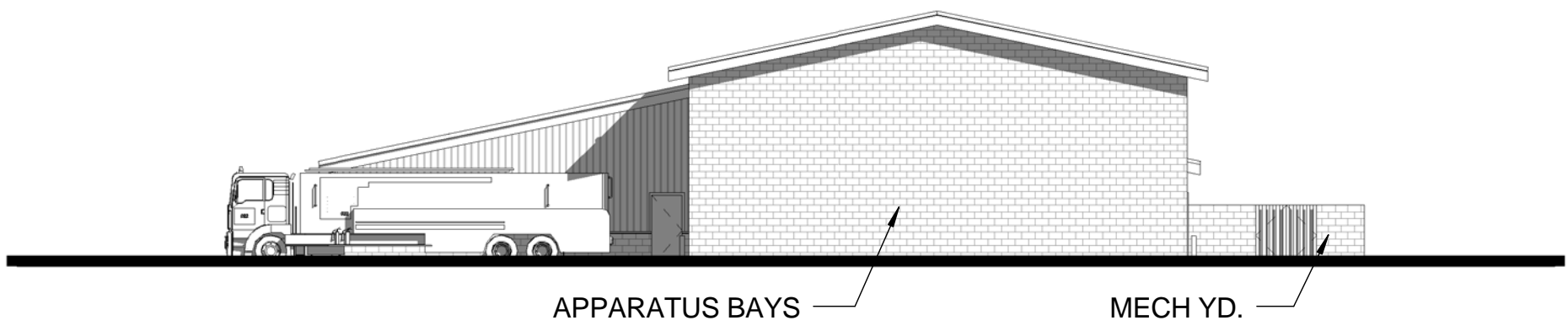
① COMPOSITE B - ELEVATION 1
1/16" = 1'-0"



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
SATELLITE**



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 - SATELLITE
STRUCTURAL ELEVATIONS**

Date: DECEMBER 2013

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

Drawing No.:
CO224

17/2014 3:09:12 PM SCALE(S) AS NOTED ON THIS SHEET ARE BASED ON A FULL SIZE 22X34 SHEET