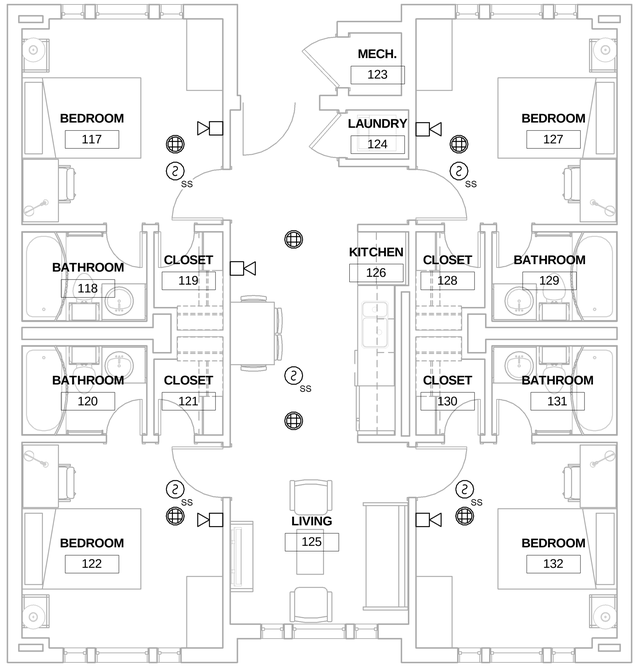
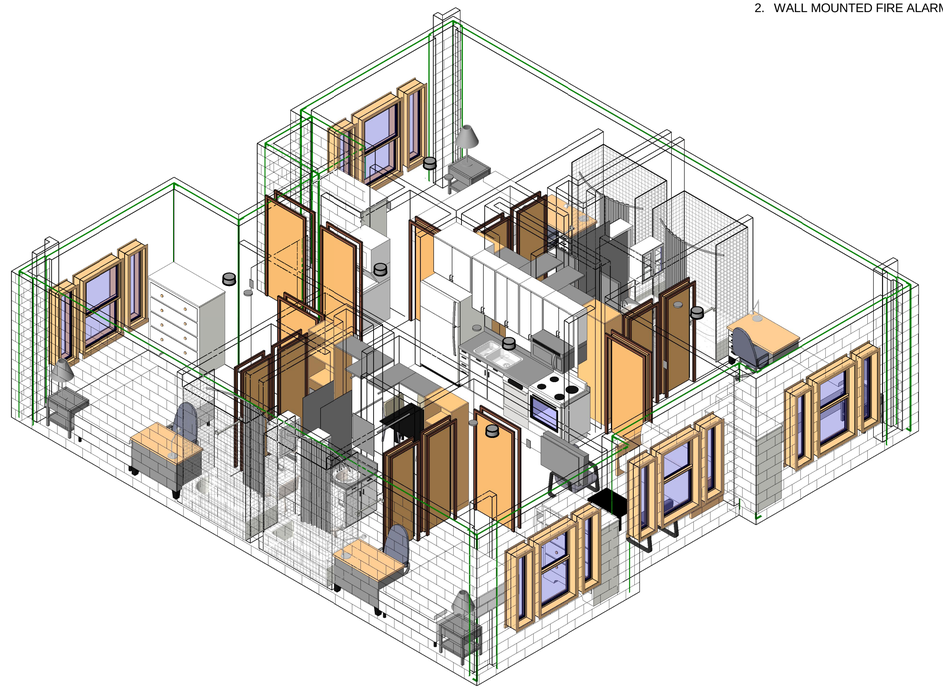
GENERAL NOTES

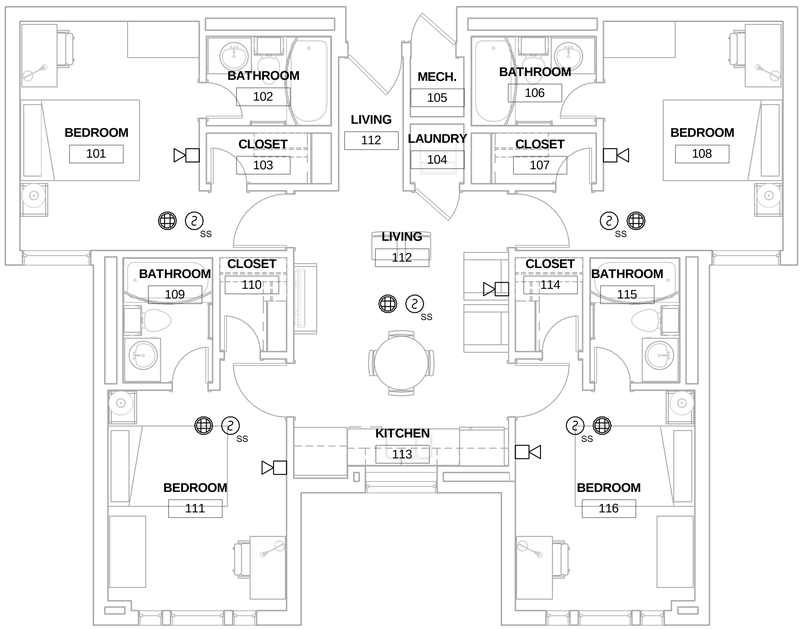
1. ALL SINGLE STATION SMOKE ALARMS WITHIN EACH DWELLING UNIT MUST BE INTERCONNECTED TO SOUND AT ONCE.
2. WALL MOUNTED FIRE ALARM SPEAKERS ARE MOUNTED AT 78" AFF.



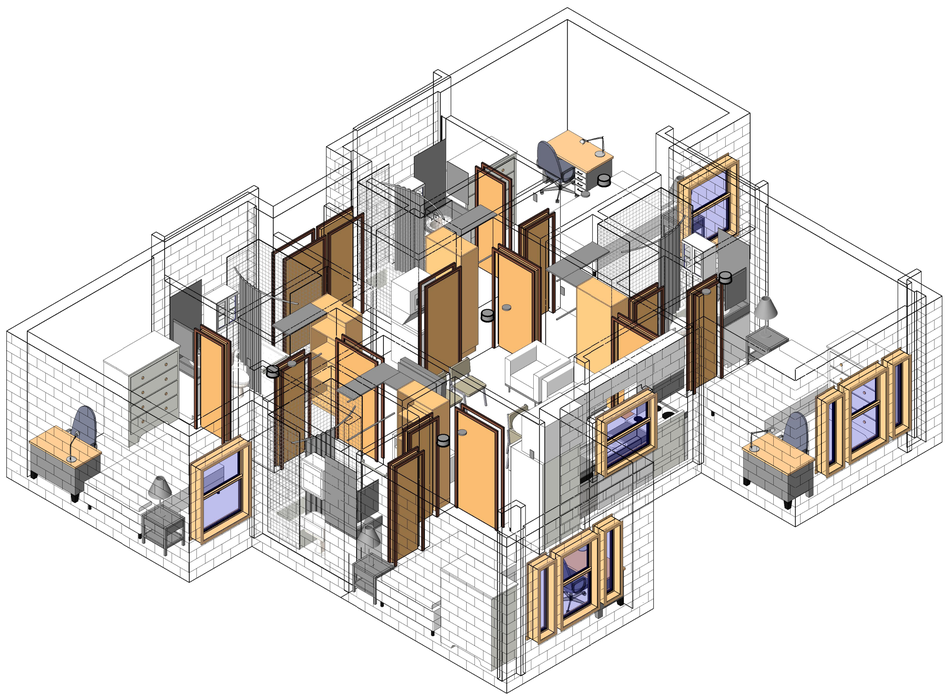
C1 PLAN B FIRE ALARM PLAN
1/4" = 1'-0"



C3 PLAN B FIRE ALARM AXON



A1 PLAN A FIRE ALARM PLAN
1/4" = 1'-0"



A3 PLAN A FIRE ALARM AXON

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

Revision:
Date: By: Description:

AIR FORCE CENTER FOR ENGINEERING AND THE ENVIRONMENT (AFCEE)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR DORMITORIES

Scales: 1/4" = 1'-0"

Jacobs Project No.: FDWD1301

Drawing Title:

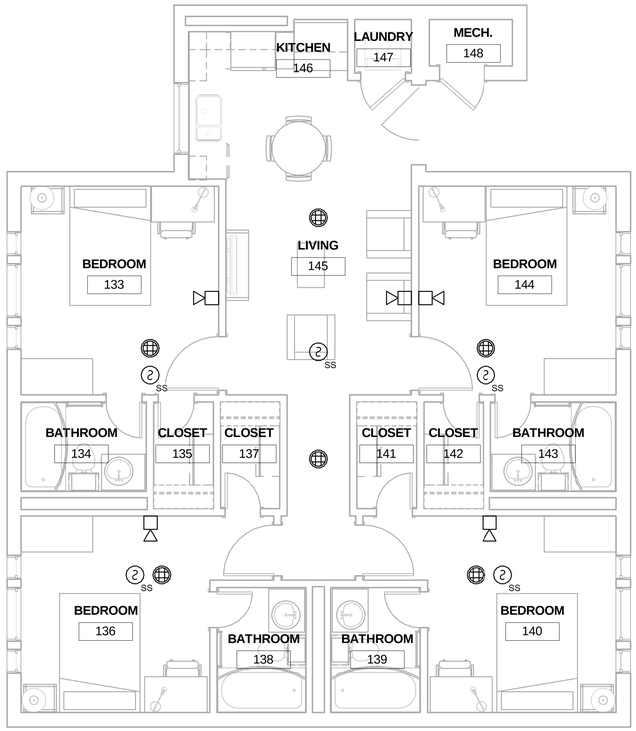
FIRE ALARM PLANS/AXON

Date: May 11, 2009
Designed By: Designer
Drawn By: SBW
Checked By: Checker

Drawing No.:
FA101

GENERAL NOTES

1. ALL SINGLE STATION SMOKE ALARMS WITHIN EACH DWELLING UNIT MUST BE INTERCONNECTED TO SOUND AT ONCE.
2. WALL MOUNTED FIRE ALARM SPEAKERS ARE MOUNTED AT 78" AFF.



A1 PLAN C FIRE ALARM PLAN
1/4" = 1'-0"

1 PLAN C FIRE ALARM AXON

N

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

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Revision:
Date: By: Description:

AIR FORCE CENTER FOR ENGINEERING AND THE ENVIRONMENT (AFCEE)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR DORMITORIES

Scales: 1/4" = 1'-0"

Jacobs Project No.: FDWD1301

Drawing Title:

FIRE ALARM PLANS/AXON

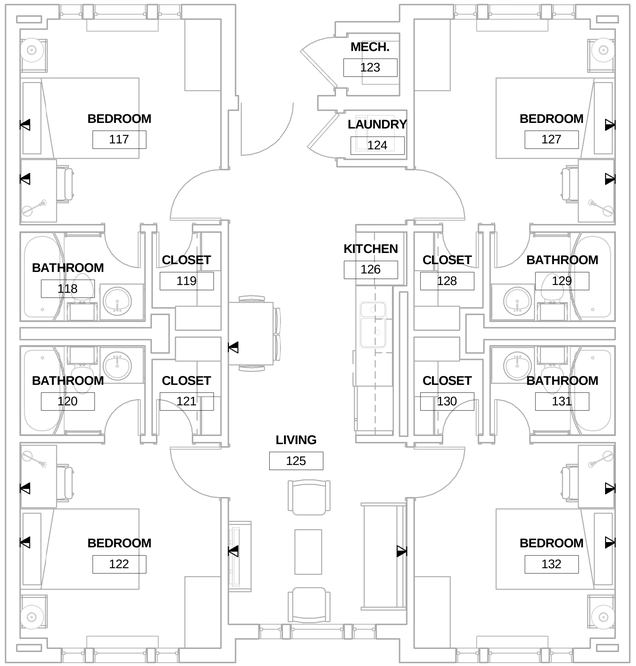
Date: May 11, 2009

Designed By: Designer
Drawn By: SBW
Checked By: Checker

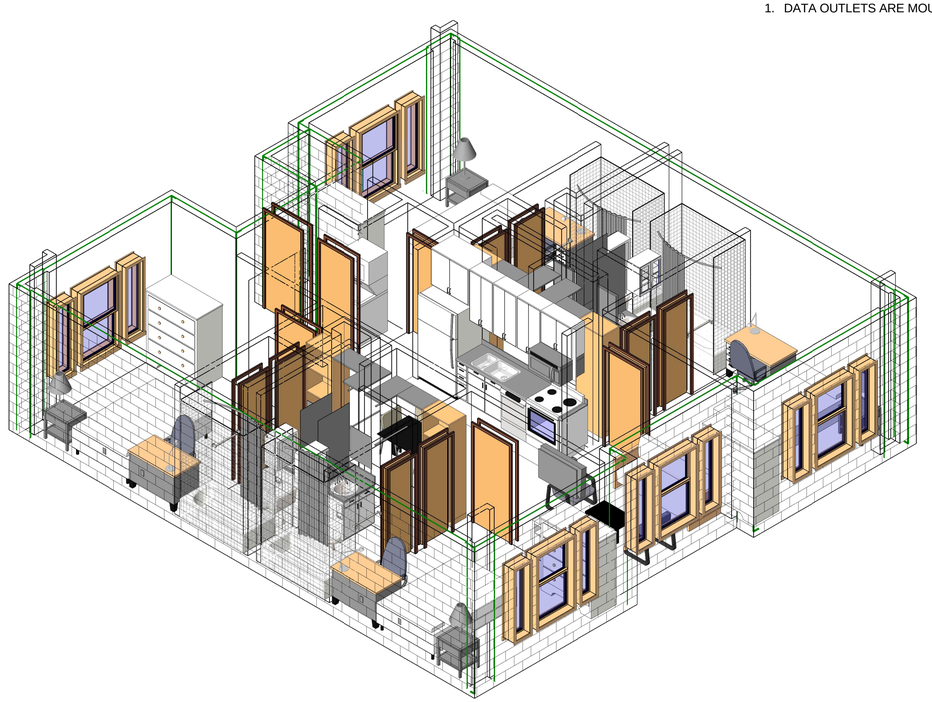
Drawing No.:
FA102

GENERAL NOTES

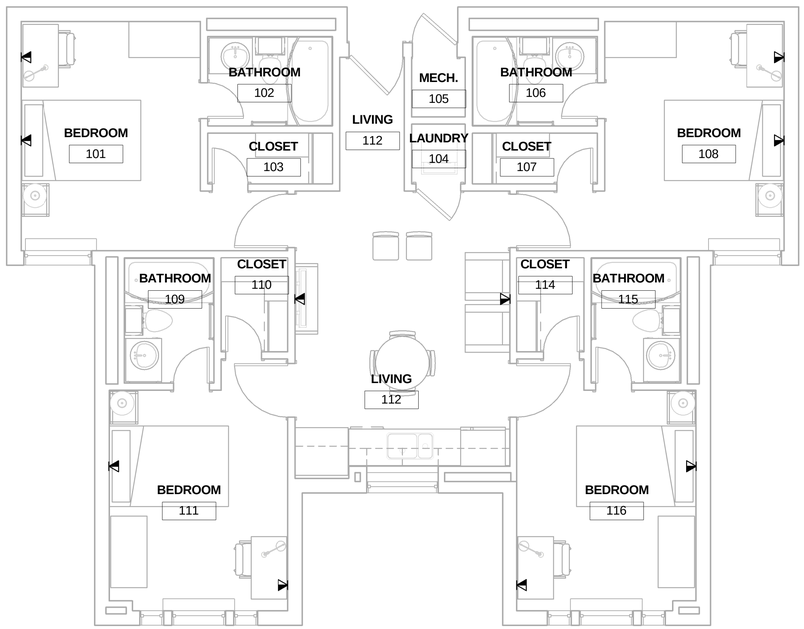
1. DATA OUTLETS ARE MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.



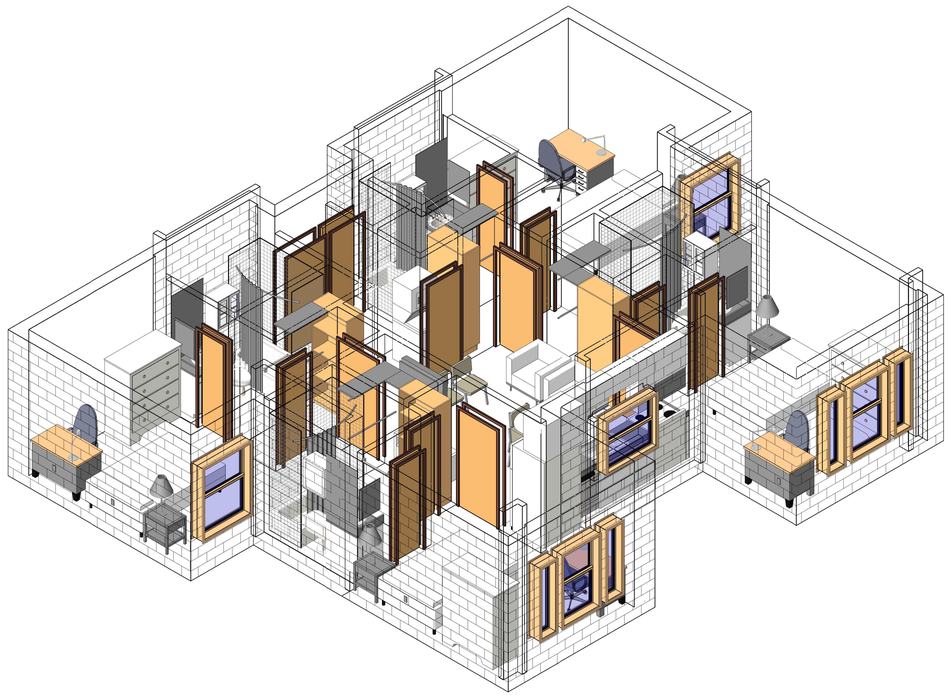
C1 PLAN B TELECOM PLAN
1/4" = 1'-0"



C3 PLAN B TELECOM AXON



A1 PLAN A TELECOM PLAN
1/4" = 1'-0"



A3 PLAN A TELECOM AXON

N

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Revision:
Date: By: Description:

AIR FORCE CENTER FOR ENGINEERING AND THE ENVIRONMENT (AFCEE)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR DORMITORIES

Scales: 1/4" = 1'-0"

Jacobs Project No.: FDWD1301

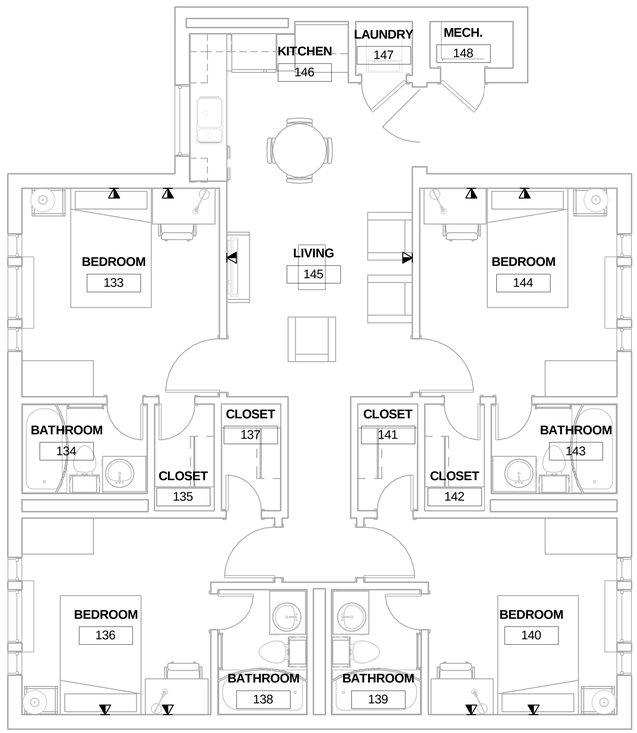
Drawing Title:

TELECOM PLANS/AXON

Date: May 11, 2009
Designed By: Designer
Drawn By: SBW
Checked By: Checker
Drawing No.: T-101

GENERAL NOTES

1. DATA OUTLETS ARE MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.



A1 PLAN C TELECOM PLAN
1/4" = 1'-0"

A3 PLAN C TELECOM AXON

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Revision:
Date: *By:* *Description:*

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FACILITIES DYNAMIC PROTOTYPES DESIGN FOR DORMITORIES

Scales: 1/4" = 1'-0"

Jacobs Project No.: FDWD1301

Drawing Title:

TELECOM PLANS/AXON

Date: May 11, 2009
Designed By: Designer
Drawn By: SBW
Checked By: Checker
Drawing No.: T-102

GENERAL NOTES AND SYMBOLS

(ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

FIRE SPRINKLER SYMBOLS

- COMBINATION WET PIPE FIRE SPRINKLER/STANDPIPE SYSTEM RISER
- FVC — FIRE VALVE CABINET WITH 2-1/2" HOSE VALVE
- 4" x 2 1/2" x 2 1/2" FIRE DEPARTMENT CONNECTION
- INSPECTOR'S TEST CONNECTION/AUXILIARY DRAIN
- TWO WAY BACKFLOW PREVENTER TEST HEADER
- WALL POST INDICATOR VALVE WITH TAMPER SWITCH
- RESIDENTIAL CONCEALED SPRINKLER WITH WHITE COVER PLATE

FIRE ALARM/MASS NOTIFICATION SYMBOLS

- FACP — ADDRESSABLE FIRE ALARM CONTROL PANEL
- RPS — FIRE ALARM REMOTE POWER SUPPLY
- P — MANUAL PULL STATION
- PHOTOELECTRIC SMOKE DETECTOR
- SS — ADDRESSARLE PHOTOELECTRIC SMOKE DETECTOR WITH SOUNDER BASE-INTERCONNECTED IN MULTIPLE ROOM DWELLING UNITS
- XX MN XX — WALL MOUNTED COMBINATION MASS NOTIFICATION AND FIRE ALARM STROBE. CONTAINS AMBER STROBE LENS FOR MASS NOTIFICATION AND CLEAR STROBE LENS FOR FIRE ALARM SYSTEM, (NUMBER INDICATES MINIMUM FIRE ALARM STROBE CANDELA, "MN" ABOVE NUMBER INDICATES MINIMUM MASS NOTIFICATION CANDELA. NOTE: MASS NOTIFICATION CANDELA RATING SHOWN IS DERATED FOR AMBER STROBE LENS).
- XX MN XX — WALL MOUNTED COMBINATION MASS NOTIFICATION AND FIRE ALARM SPEAKER/STROBE. CONTAINS AMBER STROBE LENS FOR MASS NOTIFICATION AND CLEAR STROBE LENS FOR FIRE ALARM SYSTEM, SPEAKER TO BE SHARED BY FIRE ALARM AND MASS NOTIFICATION SYSTEMS FOR AUDIBLE NOTIFICATION. (NUMBER INDICATES MINIMUM FIRE ALARM STROBE CANDELA, "MN" ABOVE NUMBER INDICATES MINIMUM MASS NOTIFICATION CANDELA. NOTE: MASS NOTIFICATION CANDELA RATING SHOWN IS DERATED FOR AMBER STROBE LENS).
- XX MN XX — CEILING MOUNTED COMBINATION MASS NOTIFICATION AND FIRE ALARM SPEAKER WITH SEPARATE CEILING MOUNTED FIRE ALARM/MASS NOTIFICATION STROBES. AMBER STROBE LENS IS FOR MASS NOTIFICATION AND CLEAR STROBE LENS IS FOR FIRE ALARM SYSTEM. SPEAKER TO BE SHARED BY FIRE ALARM AND MASS NOTIFICATION SYSTEMS FOR AUDIBLE NOTIFICATION. (NUMBER INDICATES MINIMUM FIRE ALARM STROBE CANDELA, "MN" ABOVE NUMBER INDICATES MINIMUM MASS NOTIFICATION CANDELA. NOTE: MASS NOTIFICATION CANDELA RATING SHOWN IS DERATED FOR AMBER STROBE LENS).
- XX — CEILING MOUNTED FIRE ALARM STROBE WITH CLEAR LENS (NUMBER INDICATES MINIMUM CANDELA)
- MN XX — CEILING MOUNTED MASS NOTIFICATION STROBE WITH AMBER LENS (NUMBER INDICATES MINIMUM CANDELA)
- CEILING MOUNTED FIRE ALARM/MASS NOTIFICATION SPEAKER. SPEAKER TO BE SHARED BY FIRE ALARM AND MASS NOTIFICATION SYSTEMS FOR AUDIBLE NOTIFICATION.
- WP — EXTERIOR WALL MOUNTED WEATHERPROOF MASS NOTIFICATION LOUDSPEAKER
- WATER FLOW SWITCH
- TAMPER SWITCH
- THERMAL DETECTOR (190° FIXED TEMPERATURE)
- R — RETURN DUCT DETECTOR (SUPPLIED BY FIRE ALARM CONTRACTOR; INSTALLED BY MECHANICAL CONTRACTOR)
- S — SUPPLY DUCT DETECTOR (SUPPLIED BY FIRE ALARM CONTRACTOR; INSTALLED BY MECHANICAL CONTRACTOR)
- ANN — LCD ANNUNCIATOR
- MNCP — MASS NOTIFICATION SYSTEM CONTROL PANEL WITH AUTONOMOUS CONTROL UNIT
- FAT — MONACO BT-X FIRE ALARM SIGNAL RADIO TRANSMITTER
- LOC — LOCAL OPERATOR CONSOLE WITH MICROPHONE
- R — CONTROL RELAY
- M — ADDRESSABLE MONITOR MODULE
- C — ADDRESSABLE CONTROL MODULE
- OMNI-DIRECTIONAL FIRE ALARM ANTENNA

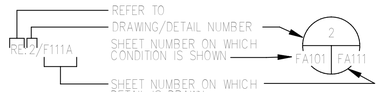
PIPING SYMBOLS

- ELBOW UP
- ELBOW DOWN
- VALVE IN DROP
- VALVE IN CENTER DROP
- VALVE IN RISE
- DIRECTION OF FLOW
- DIRECTION OF SLOPE DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- TEE OUTLET UP
- TEE OUTLET DOWN
- UNION
- STRAINER WITH BLOWDOWN VALVE
- GATE VALVE
- CHECK VALVE
- PRESSURE CONTROL VALVE
- RELIEF VALVE
- PRESSURE GAUGE WITH GAUGE COCK
- TEST PORT

MISCELLANEOUS

- POINT OF NEW CONNECTION TO EXISTING PIPING
- CALCULATION NODE POINT (2 NODES)
- CALCULATION NODE POINT (1 NODE)
- NOTE BY SYMBOL REFERENCE

DRAWING REFERENCE KEY



WATER FLOW TEST DATA

TEST DATE: 00/00/09	BY: JACOBS
LOCATION: NEAR SITE	STATIC PRESSURE: 72 PSI
OUTLETS FLOWING: 1	RESIDUAL PRESSURE: 70 PSI
OUTLET DIAMETER: 2.5"	PITOT PRESSURE: 60 PSI
OUTLET COEFFICIENT: 0.9	DISCHARGE FLOW: 1,300 GPM

FIRE SPRINKLER GENERAL NOTES

A. PROVIDE A COMPLETE COMBINATION/SPRINKLER STANDPIPE SYSTEM FOR THE ENTIRE BUILDING IN ACCORDANCE WITH 2007 NFPA 13, 2007 NFPA 13R, 2007 NFPA 14, 2006 IBC, 2006 IFC, UFC 3-600-01, AND SPECIFICATION SECTION 211313.

B. REFER TO SPECIFICATIONS FOR MATERIALS AND QUALITY OF CONSTRUCTION.

C. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR THE LOCATION OF ALL CEILING-MOUNTED DEVICES. FIELD VERIFY AND COORDINATE THE LOCATIONS OF ALL SYSTEM COMPONENTS INCLUDING PIPING, ALARMS, DRAINS, TEST POINTS, ETC. WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL EQUIPMENT WITHIN THE BUILDING.

D. PROVIDE SLEEVES AND WALL PLATES FOR ALL PENETRATIONS THROUGH WALLS OR FLOORS THAT MIGHT INCLUDE DRILLING THROUGH CONCRETE, METAL, SHEETROCK, OR OTHER MATERIALS. FIELD VERIFY APPROXIMATE WALL AND FLOOR PENETRATIONS SHOWN ON THE PLANS. SEAL ALL PENETRATIONS IN RATED SEPARATION TO MEET THE MINIMUM FIRE RATING OF THE WALL OR FLOOR IN ACCORDANCE WITH SPECIFICATION SECTION 078413.

E. THE TOTAL CALCULATED WATER DEMAND FOR THIS OCCUPANCY IS EQUAL TO THE SUM OF THE SPRINKLER SYSTEM DEMAND PLUS THE COMBINED HOSE STREAM ALLOWANCE REQUIRED PER UFC 3-600-01.

F. COORDINATE THE LOCATION OF RISERS, DRAINS, TEST CONNECTIONS, AND OTHER SPRINKLER SYSTEM COMPONENTS WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL PORTIONS OF THE BUILDING.

G. UTILIZE THE WATER FLOW TEST DATA BELOW FOR PREPARING HYDRAULIC CALCULATIONS. VERIFY THAT THE PROPOSED SPRINKLER SYSTEMS DEMAND CAN BE SATISFIED BY THE BASE WATER SUPPLY .

H. HYDRAULICALLY CALCULATE THE WET PIPE FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH THE FOLLOWING NFPA 13, NFPA 13R, AND UFC 3-600-01 DESIGN CRITERIA:

OFFICE, ACADEMIC, AND COMMON AREAS: 0.10 GPM/SQ FT DENSITY OVER THE MOST REMOTE 3,000 SQUARE FEET, WHICH MAY BE REDUCED IN ACCORDANCE WITH UFC 3-600-01 SECTION 4-2.3.3.3 WHEN UTILIZING QUICK RESPONSE SPRINKLERS, AND MAXIMUM SPRINKLER SPACING OF 225 SQUARE FEET PLUS A HOSE STREAM ALLOWANCE OF 250 GPM FOR A LIGHT HAZARD OCCUPANCY.

ELECTRICAL, MECHANICAL ROOMS, STORAGE ROOMS, LAUNDRY AREA: 0.15 GPM/SQ FT DENSITY OVER THE MOST REMOTE 3,000 SQUARE FEET, WHICH MAY BE REDUCED IN ACCORDANCE WITH UFC 3-600-01 SECTION 4-2.3.3.3 WHEN UTILIZING QUICK RESPONSE SPRINKLERS, AND MAXIMUM SPRINKLER SPACING OF 130 SQUARE FEET PLUS A HOSE STREAM ALLOWANCE OF 500 GPM FOR AN ORDINARY HAZARD GROUP 1 OCCUPANCY.

DWELLING UNITS AND DORMITORY CORRIDORS: CALCULATIONS TO INCLUDE A MAXIMUM OF FOUR MOST HYDRAULICALLY DEMANDING RESIDENTIAL SPRINKLERS WITHIN A COMPARTMENT PER NFPA 13R. SPRINKLERS ARE TO BE CALCULATED ACCORDING TO THE MANUFACTURER'S GUIDELINES UTILIZING THE LARGEST SPRINKLER COVERAGE WITHIN A COMPARTMENT.

I. PROVIDE MANUAL WET CLASS I STANDPIPES WITH 2-1/2" HOSE VALVES FOR ALL INTERIOR STAIRWELLS. THE STANDPIPES ARE TO BE SIZED TO PROVIDE 100 PSI AT THE MOST HYDRAULICALLY REMOTE HOSE VALVE PER NFPA 14 SECTIONS 7.7.3 AND 5.4.1.1 THROUGH THE FIRE DEPARTMENT CONNECTION ONLY UTILIZING A FIRE DEPARTMENT PUMPER TRUCK.

J. PROVIDE QUICK RESPONSE CONCEALED PENDENT SPRINKLERS WITH WHITE COVER PLATES FOR AREAS OTHER THAN DORMITORY ROOMS AND ASSOCIATED CORRIDORS WITH TILE OR GYP BOARD CEILINGS. CENTER SPRINKLERS IN THE LESSER DIMENSION OF CEILING TILE, AND ALIGN SPRINKLERS WITH LIGHT FIXTURES FOR GYP BOARD CEILINGS. PROVIDE RESIDENTIAL CONCEALED PENDENT SPRINKLERS WITH WHITE COVER PLATES FOR ALL DORMITORY ROOMS AND ASSOCIATED CORRIDORS. IN ALL AREAS WITHOUT SUSPENDED CEILINGS, PROVIDE QUICK RESPONSE BRASS UPRIGHT SPRINKLERS.

K. PROVIDE HANGERS AND SEISMIC BRACING AS REQUIRED PER NFPA 13 AND UFC 4-010-01.

L. PROVIDE BLACK SCHEDULE 40 FOR 2" AND SMALLER PIPING, AND SCHEDULE 10 FOR 2-1/2" AND LARGER PIPING. CONTRACTOR TO CONDUCT WATER SUPPLY ANALYSIS TO UTILIZE THREADED FITTINGS FOR SCHEDULE 40 PIPING AND ROLL GROOVED FITTINGS FOR SCHEDULE 10 PIPING. CPVC PIPING LISTED FOR FIRE PROTECTION USE MAY BE UTILIZED IN RESIDENTIAL AND LIGHT HAZARD AREAS OF THE BUILDING PER NFPA 13 AND NFPA 13R WHEN INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

M. PROVIDE COMPLETE DOCUMENTS FOR APPROVAL FROM AFCEE, LOCAL FIRE DEPARTMENT, AND THE DESIGN/BUILD FIRE PROTECTION ENGINEER. INCLUDE IN THE DRAWINGS ANY ADDITIONAL EQUIPMENT NECESSARY TO COMPLETE THE INSTALLATION AND COMPLY WITH APPLICABLE CODES AND AMENDMENTS.

N. PROVIDE AUXILIARY DRAINAGE FOR ALL TRAPPED SECTIONS OF PIPE.

O. PROVIDE ACCESS DOORS AND SIGNAGE WHERE ACCESS IS REQUIRED TO CONCEAL SPRINKLER EQUIPMENT, VALVES, AND CONTROLS LOCATED IN WALLS OR ABOVE CEILINGS AS APPROVED BY THE OWNER.

FIRE ALARM/MASS NOTIFICATION SYSTEM GENERAL NOTES

A. PERFORM ALL DESIGN AND INSTALLATION WORK IN ACCORDANCE WITH 2007 NFPA 72, UFC 3-600-01, UFC 4-021-01, UFAS, AND SPECIFICATIONS 275116 AND 283111.

B. RUN ALL WIRING IN MINIMUM 3/4" CONDUIT.

C. MOUNT ALL NOTIFICATION DEVICES WITH THE BOTTOM OF THE STROBE LENS AT 80" AFF, OR 6" BELOW THE CEILING, WHICHEVER IS LOWER. PER NFPA 72 AND UFAS.

D. MOUNT THE OPERABLE PART OF MANUAL PULL STATIONS AT 48" AFF.

E. PROVIDE POWER LIMITED CIRCUITS.

F. DO NOT LOCATE DETECTORS IN DIRECT AIR OR CLOSER THAN 3 FEET FROM AN AIR SUPPLY OR RETURN DIFFUSER.

G. PROVIDE CONNECTIONS TO THE LIGHT AND POWER SERVICE IN ACCORDANCE WITH 2007 NFPA 72.

H. PROVIDE 16 AWG MINIMUM INITIATING DEVICE AND SIGNALING LINE CIRCUITS.

I. PROVIDE 16 AWG MINIMUM NOTIFICATION DEVICE CIRCUITS.

J. PROVIDE CLASS "A", STYLE 6 SIGNALING LINE CIRCUITS. PROVIDE CLASS "A", INITIATING DEVICE CIRCUITS. PROVIDE CLASS "A", NOTIFICATION APPLIANCE CIRCUITS.

K. THESE DOCUMENTS DEPICT PERFORMANCE DESIGN ONLY. PROVIDE COMPLETE DOCUMENTS FOR APPROVAL FROM AFCEE, LOCAL FIRE DEPARTMENT, AND THE DESIGN/BUILD FIRE PROTECTION ENGINEER. INCLUDE IN THE DRAWINGS ANY ADDITIONAL EQUIPMENT NECESSARY TO COMPLETE THE INSTALLATION AND COMPLY WITH APPLICABLE CODES AND AMENDMENTS.

L. PROVIDE STROBES AND SPEAKER/STROBES WITH WHITE FACEPLATES THROUGHOUT THE BUILDING. FIRE ALARM STROBES TO BE MARKED WITH "FIRE" AND MASS NOTIFICATION STROBES TO BE MARKED WITH "ALERT" AS SPECIFIED. SPEAKERS SHOWN ON THE DRAWINGS ARE TO BE SHARED BY THE FIRE ALARM AND MASS NOTIFICATION SYSTEMS FOR AUDIBLE NOTIFICATION. PROVIDE ADDITIONAL SPEAKERS AS NECESSARY TO MEET THE AUDIBILITY REQUIREMENTS OF NFPA 72 SECTION 7.4.

M. LOCATE MASS NOTIFICATION DEVICES IN ACCORDANCE WITH NFPA 72 FOR VISIBLE AND AUDIBLE NOTIFICATION DEVICES. UPON ACTIVATION OF THE MASS NOTIFICATION SYSTEM, TEMPORARILY DEACTIVATE FIRE ALARM SYSTEM AUDIBLE SIGNALS DURING EMERGENCY VOICE MESSAGING. FIRE ALARM VISUALS AND SIGNAL TRANSMISSION TO THE BASE FIRE DEPARTMENT ARE TO REMAIN FUNCTIONAL. REACTIVATE THE FIRE ALARM AUDIBLES AFTER THE MESSAGE IS COMPLETED.

N. PROVIDE A TELEPHONE SYSTEM INPUT FOR THE MASS NOTIFICATION SYSTEM TO ALLOW THE MASS NOTIFICATION SPEAKERS TO BE UTILIZED FOR PA SYSTEM ANNOUNCEMENTS.

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Revision:
Date: By: Description:

AIR FORCE CENTER FOR ENGINEERING AND THE ENVIRONMENT (AFCEE)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR DORMITORIES

Scales: 12" = 1'-0"

Jacobs Project No.: FDWD1301

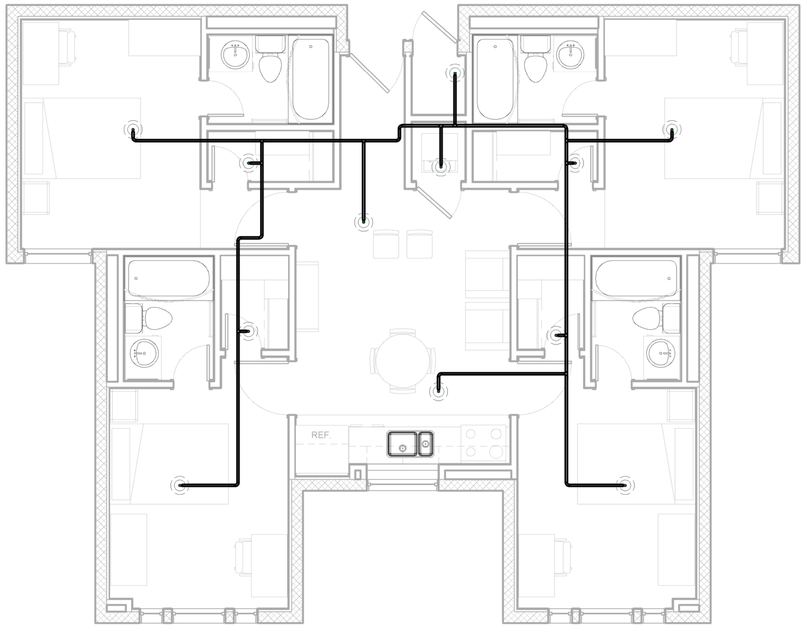
Drawing Title:

FIRE PROTECTION LEGEND & NOTES

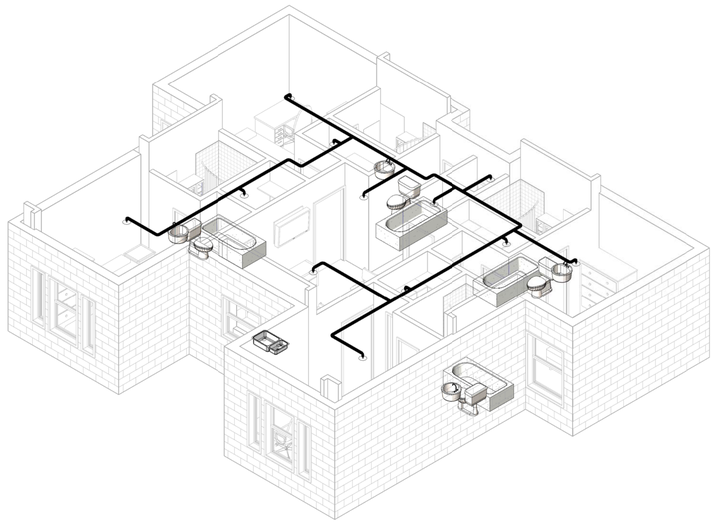
Date: 11 MAY 2009

Designed By: Designer
Drawn By: Author
Checked By: Checker

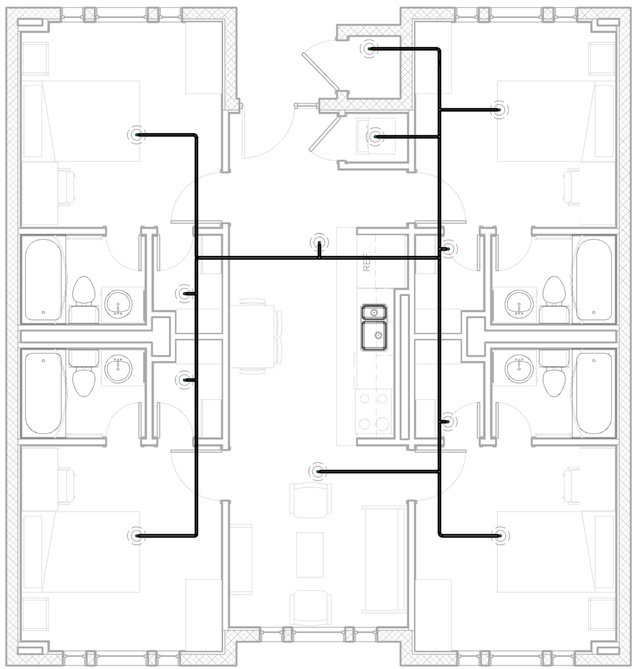
Drawing No.: FP00



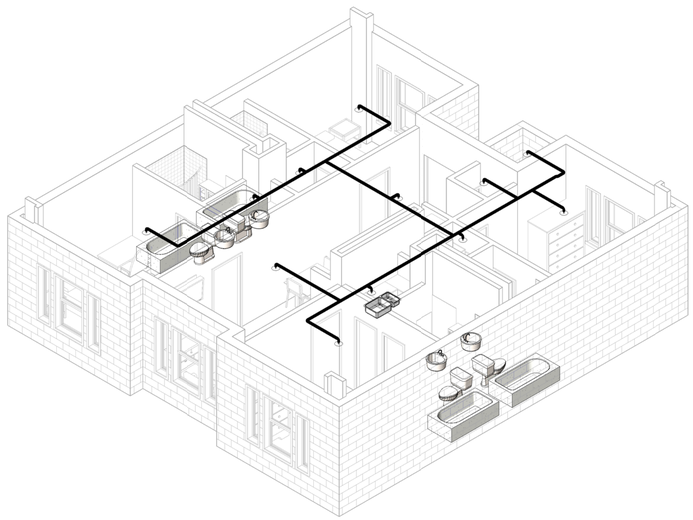
1 1 - FIRE PROTECTION A
1/4" = 1'-0"



3 3D FIRE PROTECTION A



2 1 - FIRE PROTECTION B
1/4" = 1'-0"



4 3D FIRE PROTECTION B

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Revision:
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AIR FORCE CENTER FOR ENGINEERING AND THE ENVIRONMENT (AFCEE)
FACILITIES DYNAMIC PROTOTYPES DESIGN FOR DORMITORIES

Scales: 1/4" = 1'-0"

Jacobs Project No.: FDWD1301

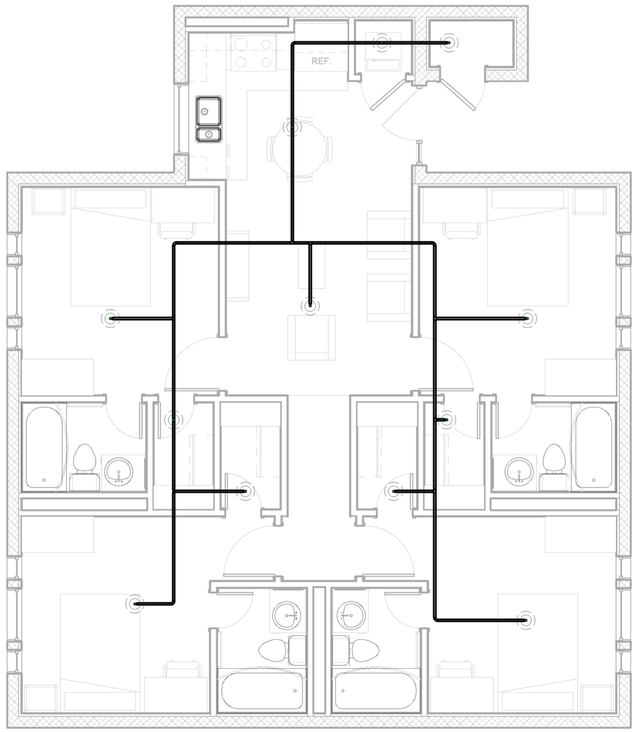
Drawing Title:

FIRE PROTECTION PLANS

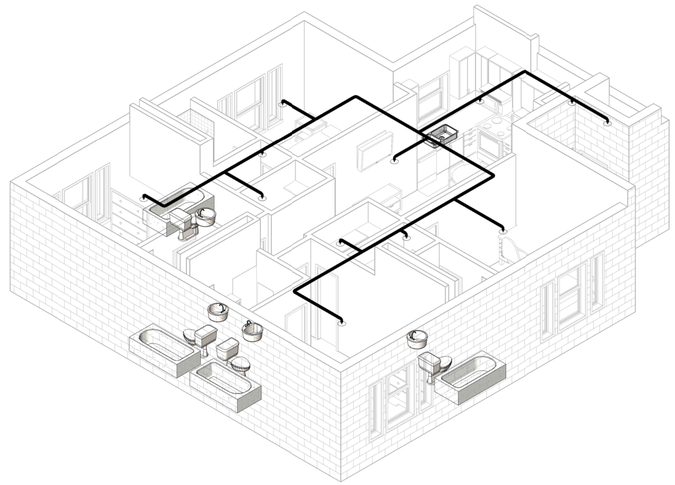
Date: 11 MAY 2009

Designed By: Designer
Drawn By: Author
Checked By: Checker

Drawing No.:
FP01



1 - FIRE PROTECTION C
1/4" = 1'-0"



2 3D FIRE PROTECTION C

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Scales: 1/4" = 1'-0"

Jacobs Project No.: FDWD1301

Drawing Title:

FIRE PROTECTION PLANS

Date: 11 MAY 2009

Designed By: Designer
Drawn By: Author
Checked By: Checker

Drawing No.: FP02

N