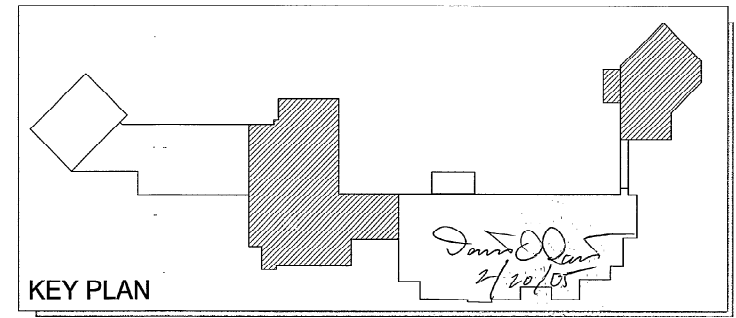


MATCH LINE AREA "E" AREA "F" AREA "E" MATCH LINE  
AREA "C" MATCH LINE AREA "D" MATCH LINE



**BASIS UNITED FIRE & SECURITY SYSTEMS, INC.**  
1400 SW 3 STREET, SUITE 9  
COCONUT CREEK, FL 33064  
TOLL FREE: 1-800-372-2770  
24-Hour Emergency Service  
954-768-7620  
www.basisunited.com

**REGISTERED PROFESSIONAL ENGINEER**  
STATE OF FLORIDA  
NO. 11000  
DATE: 02/22/05

**REVISIONS**

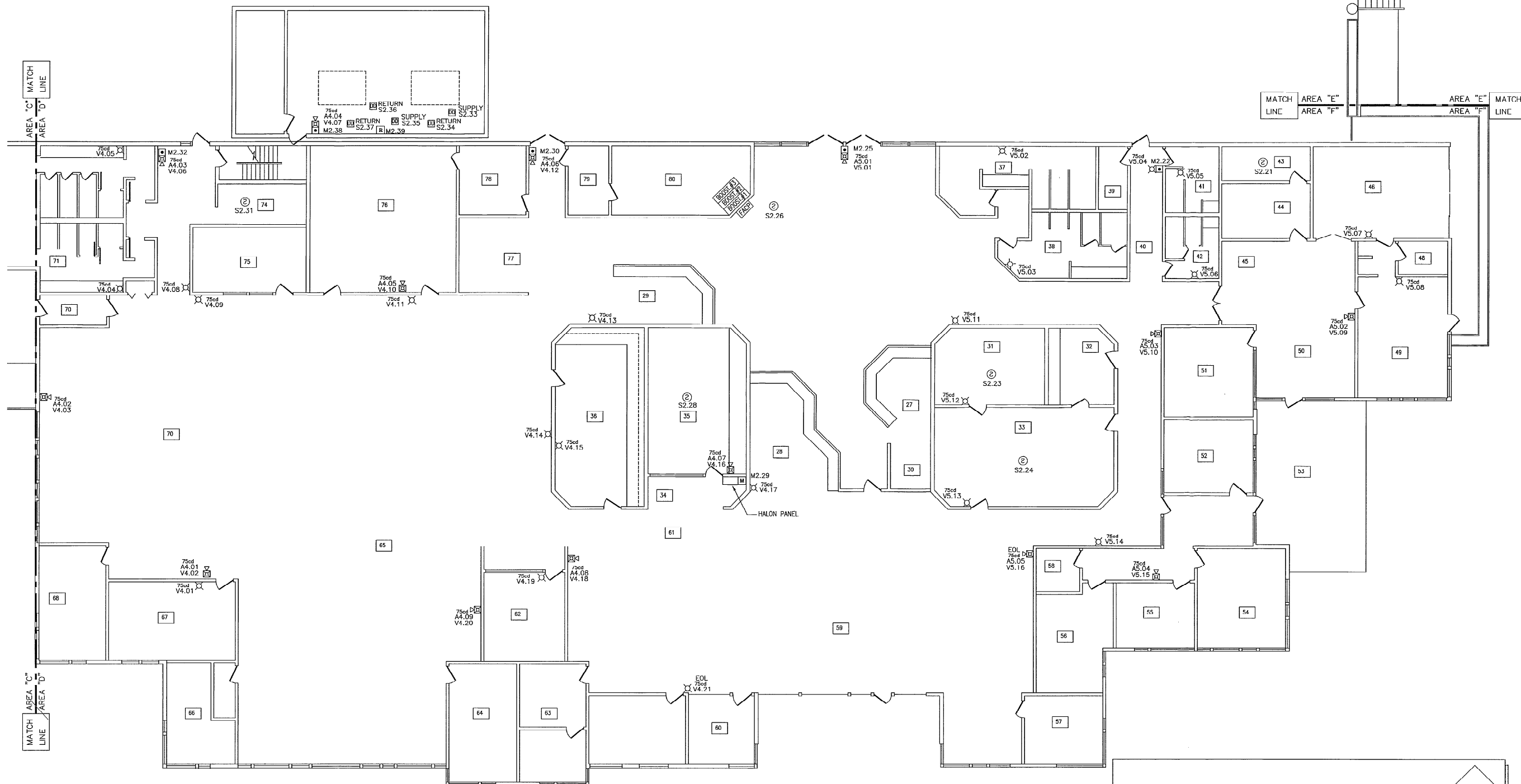
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2	02-03-05	ISSUED FOR PERMIT
3	02-03-05	ISSUED FOR PERMIT
4	02-03-05	ISSUED FOR PERMIT

**DESIGNED BY:** JOHN OLAN  
**CHECKED BY:** JOHN OLAN  
**DATE:** 02-22-05  
**SCALE:** AS NOTED

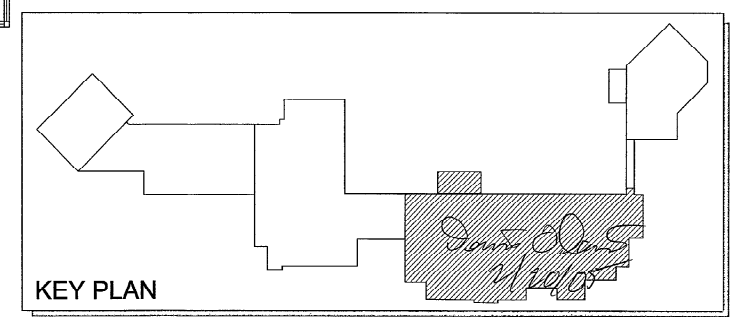
**PREPARED FOR:**  
COCONUT CREEK GOVERNMENT CENTER  
1400 SW 3 STREET  
COCONUT CREEK, FL 33064  
SCALE: AS NOTED

**PROJECT NAME:**  
COCONUT CREEK GOVERNMENT CENTER  
1400 SW 3 STREET  
COCONUT CREEK, FL 33064  
FIRE ALARM FLOOR PLAN

**SHEET NO. FA-1**  
**SHEET 1 OF 3**



ADMINISTRATION BUILDING FLOOR PLAN  
 SCALE: 1/8"=1'-0"  
 COCONUT CREEK GOVERNMENT CENTER



**BAISS UNITED**  
 FIRE & SECURITY SYSTEMS, INC.  
 1480 SW 34th STREET, SUITE 109  
 COCONUT CREEK, FL 33093  
 PHONE: 561-521-2770  
 FAX: 561-521-2774  
 WWW.BAISSUNITED.COM

**BAISS**  
 FIRE & SECURITY SYSTEMS, INC.  
 1480 SW 34th STREET, SUITE 109  
 COCONUT CREEK, FL 33093  
 PHONE: 561-521-2770  
 FAX: 561-521-2774  
 WWW.BAISSUNITED.COM

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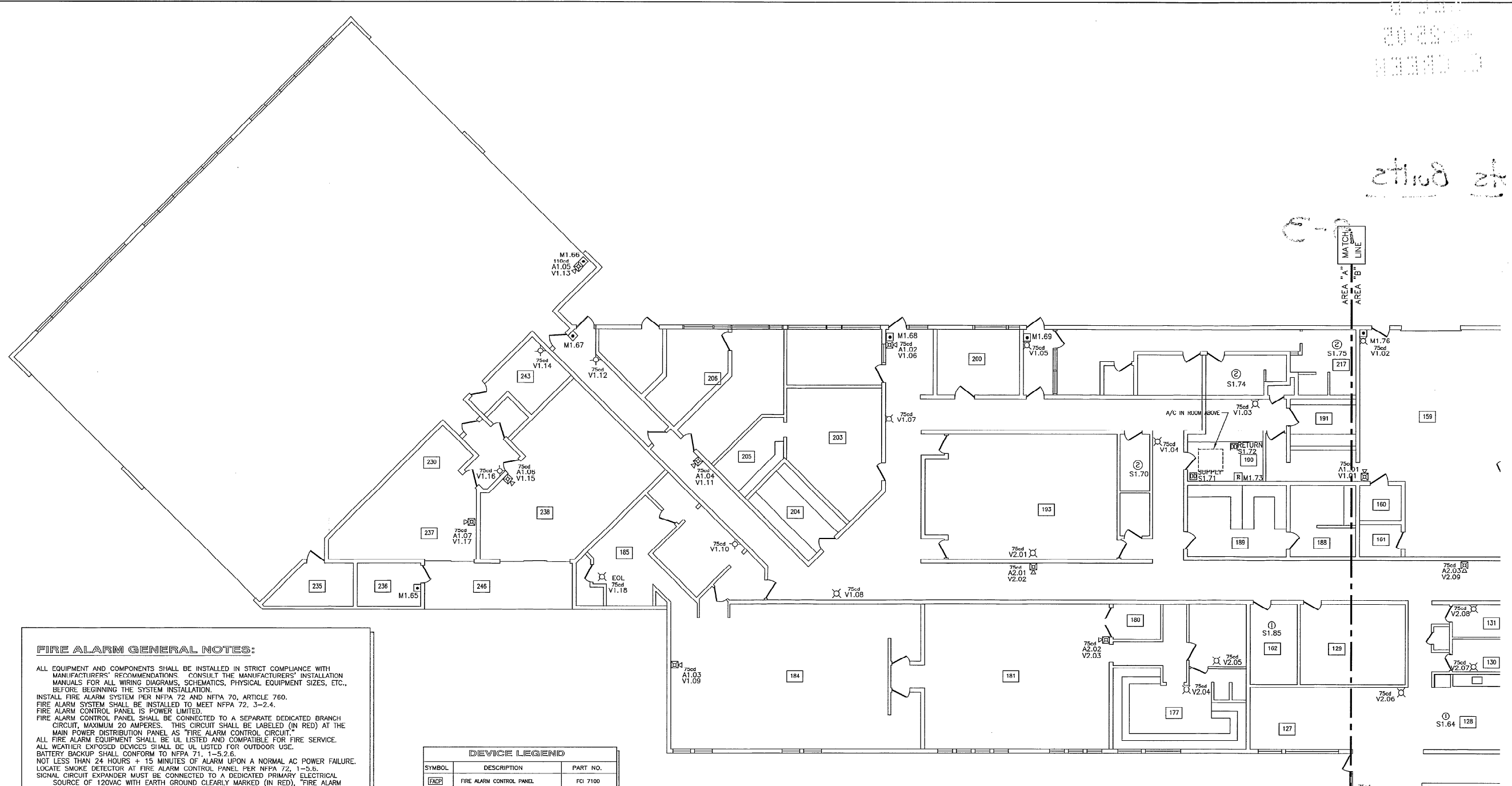
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2	02-03-05	...	...	REVISION

DRAWING PREPARED FOR:  
 BAISS UNITED  
 1480 SW 34th ST  
 COCONUT CREEK, FL 33093  
 PROJECT NO.: FA-2

SHEET NO.:  
**FA-2**  
 SHEET 2 OF 3

07/23/05  
 20:25:04  
 10/10/05

2/20/05



**FIRE ALARM GENERAL NOTES:**

ALL EQUIPMENT AND COMPONENTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURERS' RECOMMENDATIONS. CONSULT THE MANUFACTURERS' INSTALLATION MANUALS FOR ALL WIRING DIAGRAMS, SCHEMATICS, PHYSICAL EQUIPMENT SIZES, ETC., BEFORE BEGINNING THE SYSTEM INSTALLATION.

INSTALL FIRE ALARM SYSTEM PER NFPA 72 AND NFPA 70, ARTICLE 760.

FIRE ALARM SYSTEM SHALL BE INSTALLED TO MEET NFPA 72, 3-2.4.

FIRE ALARM CONTROL PANEL IS POWER LIMITED.

FIRE ALARM CONTROL PANEL SHALL BE CONNECTED TO A SEPARATE DEDICATED BRANCH CIRCUIT, MAXIMUM 20 AMPERES. THIS CIRCUIT SHALL BE LABELED (IN RED) AT THE MAIN POWER DISTRIBUTION PANEL AS "FIRE ALARM CONTROL CIRCUIT".

ALL FIRE ALARM EQUIPMENT SHALL BE UL LISTED AND COMPATIBLE FOR FIRE SERVICE.

ALL WEATHER EXPOSED DEVICES SHALL BE UL LISTED FOR OUTDOOR USE.

BATTERY BACKUP SHALL CONFORM TO NFPA 71, 1-5.2.6.

NOT LESS THAN 24 HOURS + 15 MINUTES OF ALARM UPON A NORMAL AC POWER FAILURE.

LOCATE SMOKE DETECTOR AT FIRE ALARM CONTROL PANEL PER NFPA 72, 1-5.6.

SIGNAL CIRCUIT EXPANDER MUST BE CONNECTED TO A DEDICATED PRIMARY ELECTRICAL SOURCE OF 120VAC WITH EARTH GROUND CLEARLY MARKED (IN RED), "FIRE ALARM CONTROL CIRCUIT".

**ALARM NOTIFICATION APPLIANCES:**

UNDER MAXIMUM NORMAL LOAD FOR 24 HOURS AND THEN SHALL BE CAPABLE OF OPERATING THE SYSTEM DURING A FIRE OR EMERGENCY CONDITION FOR A PERIOD OF 15 MINUTES.

PARALLEL BRANCHING OF NOTIFICATION CIRCUITS (T-TAPPING) IS NOT ALLOWED.

**DEVICE INFORMATION:**

MANUAL PULL STATIONS SHALL BE LOCATED AT 48" AFF, MAXIMUM 54" ON SIDE APPROACH. WALL MOUNTED SMOKE DETECTORS SHALL BE LOCATED AT 4" MINIMUM AND 12" MAXIMUM FROM CEILING.

AUDIBLE AND VISUAL APPLIANCE LOCATIONS TO MEET NFPA 72, 6-3, 6-4 AND 6-5. SYNCHRONIZE STROBES AS REQUIRED.

STROBE LIGHTS SHALL MEET THE REQUIREMENTS OF THE ADA, UL STANDARD 1971. STROBE INTENSITY AND FLASH RATE SHALL MEET THE REQUIREMENTS OF UL 1971.

**WIRING:**

TYPE FPL, FPLP, FPLR FIRE ALARM POWER LIMITED FIRE PROTECTION CABLE MAY BE USED IN THE INSTALLATION.

WIRING SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND NATIONAL CODES.

ALL FIELD WIRING SHALL BE ELECTRICALLY SUPERVISED FOR OPEN CIRCUIT AND GROUND FAULT.

ALL INITIATING DEVICES SHALL POINT ANNUNCIATE ON LED TYPE PANEL LOCATED IN FIRE CONTROL ROOM.

**GROUNDING:**

ALL EQUIPMENT SHALL BE GROUNDED PER NEC-250 AND MANUFACTURERS' REQUIREMENTS.

**DEVICE LEGEND**

SYMBOL	DESCRIPTION	PART NO.
[FACP]	FIRE ALARM CONTROL PANEL	FGI 7100
[BOOSTER]	SIGNAL BOOSTER	PS-12/24-BMP
[ANN]	ANNUNCIATOR	LCD-7100
[MPS]	MANUAL PULL STATION (48" A.F.F.)	MS-7A
[SD]	SMOKE DETECTION - PHOTO	ASD-PL2/ALM-1L
[HTD]	HEAT DETECTOR	AD-RL/ADB-FL
[DD]	DUCT DETECTOR	ASD-RP900
[HSD]	HORN STROBE 75cd	GES3-24WR
[SL]	STROBE LIGHT	GES3-24WR
[WHS]	WEATHERPROOF HORN STROBE	WGEC-75WR
[CM]	CONTROL MODULE	F.B.O.
[CM]	CONTROL MODULE	F.B.O.
[CM]	CONTROL MODULE	ADM2-R
[M]	MONITOR MODULE	MM-2

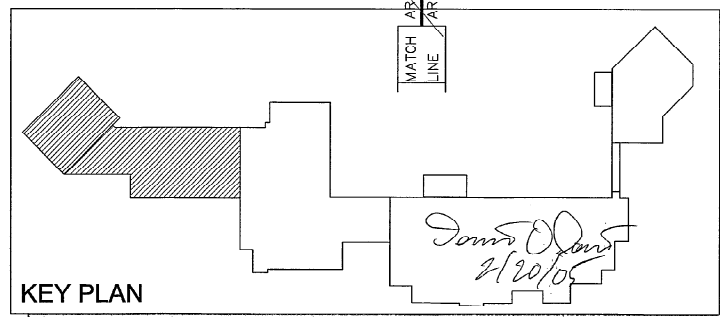
**WIRE LEGEND**

Z	SIGNALING LINE CMT.	1 #16/2 AWG TWISTED PWR
S	HORNS	1 #14/2 AWG FPLP

ALL WIRING TO COMPLY WITH NEC #70 ARTICLE #760  
 ALL WIRING FPLP

DETENTION AND APPARATUS BUILDING FLOOR PLAN  
 SCALE: 1/8"=1'-0"

COCONUT CREEK GOVERNMENT CENTER



**BASIS** UNITED FIRE & SECURITY SYSTEMS, INC.  
 1488 SW 33 STREET, SUITE 3000  
 POMPANO BEACH, FL 33069  
 PHONE: 954.385.9004  
 FAX: 954.385.9004  
 WWW.BASISUNION.COM

CELL CORPORATION  
 1101 W. WINDY HILL RD.  
 SUITE 300  
 SPRINGFIELD, FL 32089

DATE: 07/23/05  
 BY: [NAME]  
 CHECKED BY: [NAME]  
 DESIGNED BY: [NAME]  
 DRAWN BY: [NAME]  
 SCALE: AS NOTED

REVISIONS:  
 NO. DATE BY  
 1 07-03-05 [NAME] ORIGINAL SUBMITTAL  
 2 07-03-05 [NAME] REVISION

PREPARED FOR:  
 COCONUT CREEK GOVERNMENT CTR.  
 4800 W. COCONUT ROAD  
 COCONUT CREEK, FL 33069  
 PROJECT NO. [PROJECT NUMBER]

SHEET NO. FA-3  
 SHEET 3 OF 3

82010  
4-25-05  
C. GREEN

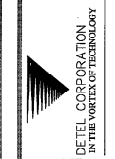
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OFFICE COPY

B-3

CITY OF COCONUT CREEK, DEVELOPMENT SERVICES BROWARD COUNTY, FLORIDA		
INSPECTIONS	APPROVED BY	DATE
ZONING		
LANDSCAPING		
ENGINEERING		
FIRE	<i>Q</i>	2-25-05
STRUCTURAL	<i>W</i>	3-1-05
ELECTRICAL		
PLUMBING		
MECHANICAL		
PERMIT #	04002517	DATE 3/1/05

NOTE:  
THIS PERMIT EXPIRES IF CONSTRUCTION IS NOT BEGUN WITHIN 6 MO.  
FROM DATE OF PERMIT ISSUE. PLANS MUST BE ON JOB BEFORE ANY  
INSPECTION WILL BE MADE.



REVISIONS:

PROJECT  
COCONUT CREEK GOVERNMENT CENTER

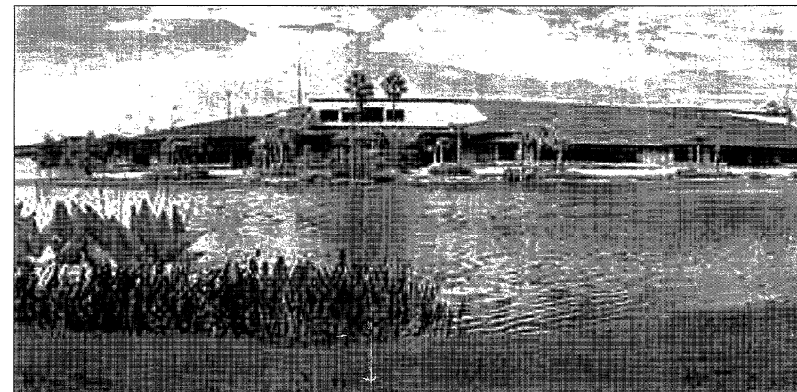
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COVER SHEET

*James P. Davis*  
4/26/04

DRAWN BY: RWJ  
CHECKED BY: DDJ  
SCALE: NONE  
DATE: 07/18/04

DRAWING NO. **FA-0**  
SHEET 1 OF 6

# FIRE ALARM UPGRADE



**COCONUT CREEK GOVERNMENT CENTER**  
4800 WEST COANS ROAD, COCONUT CREEK, FLORIDA 33063

## INDEX OF DRAWINGS

- FA-0 COVER SHEET
- FA-1 COUNCIL CHAMBER BUILDING FLOOR PLAN - FIRE ALARM
- FA-2 ADMINISTRATION BUILDING FLOOR PLAN - FIRE ALARM
- FA-3 PUBLIC SAFETY BUILDING FLOOR PLAN - FIRE ALARM
- FA-4 DETENTION & APPARATUS BUILDING FLOOR PLAN - FIRE ALARM
- FA-5 FIRE ALARM RISER DIAGRAM

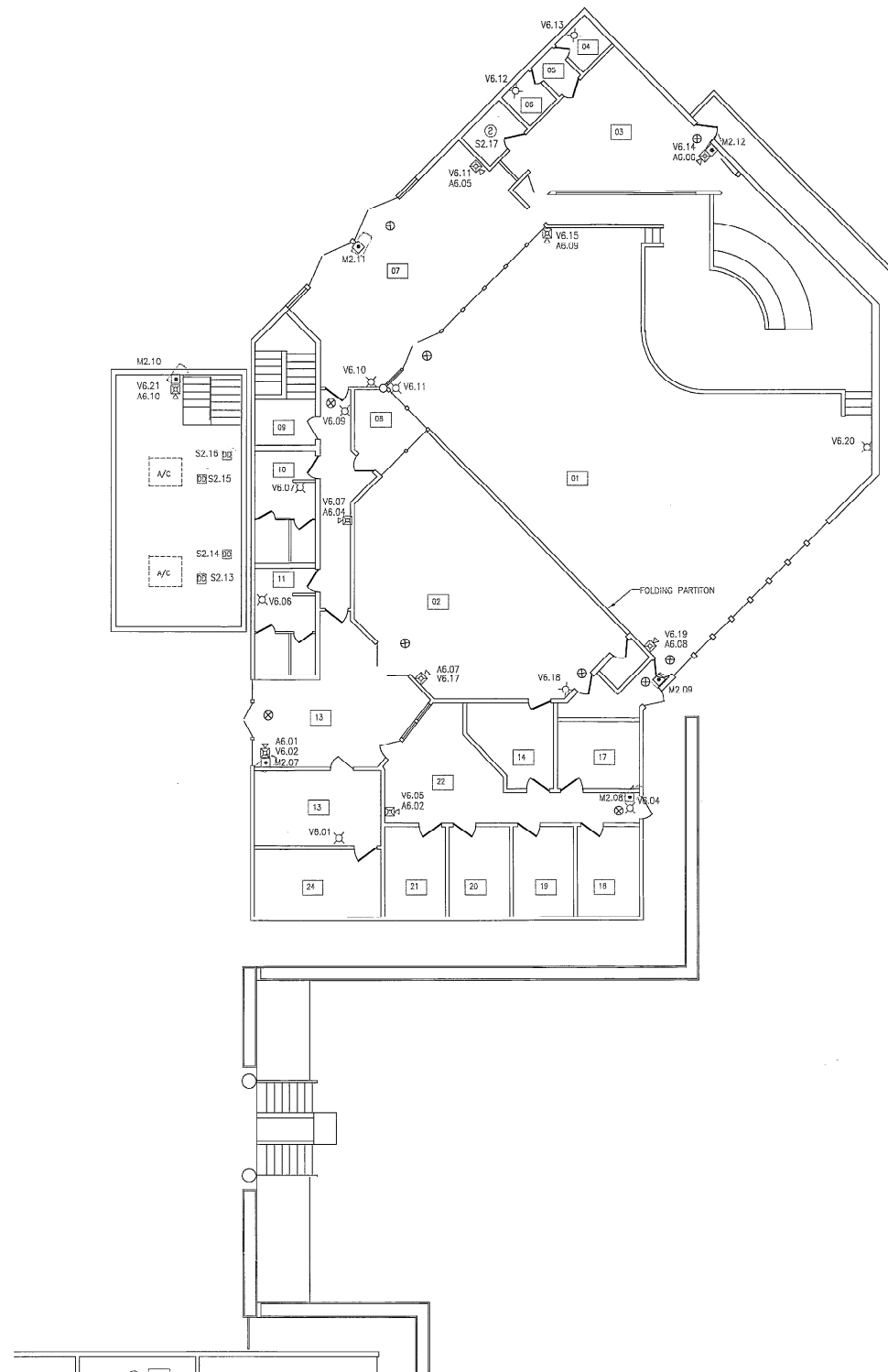
DEVICE LEGEND			
QTY.	SYMBOL	DESCRIPTION	PART NO.
0	[FCP]	FIRE ALARM CONTROL PANEL	FCI 7100
0	[BOOSTER]	SIGNAL BOOSTER	PS-12/24-BMP
0	[ANN]	ANNUNCIATOR	LC0-7100
0	[MPS]	MANUAL PULL STATION (48" A.F.F.)	MS-7A
0	[SD]	SMOKE DETECTOR - PHOTO	ASD-PL2/ASB-FL
0	[HD]	HEAT DETECTOR	ATD-RL/ADS-FL
0	[DD]	DIKT DETECTOR	ASD-RP200
0	[HORN]	HORN STROBE 7500	NS-24MCW
0	[SL]	STROBE LIGHT	RSS-24MCW-FR
0	[MH]	MINI HORN	MZ-24S-W
0	[WHP]	WEATHERPROOF HORN STROBE	ASWP-2475W-FR
0	[CM]	CONTROL MODULE	F.O.O
0	[C]	CONTROL MODULE	F.B.O.
0	[C]	CONTROL MODULE	ADM2-R
0	[M]	INDICATES END OF LNF	AMM-2

WIRE LEGEND		
2	SIGNALING LINE CKT.	1 #16/2 AWG TWISTED PAIR
3	HURNS	1 #14/2 AWG FFLP

ALL WIRING TO COMPLY WITH NEC #70 ARTICLE #760  
ALL WIRING FFLP

**FIRE ALARM GENERAL NOTES:**

ALL EQUIPMENT AND COMPONENTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURERS' RECOMMENDATIONS. CONSULT THE MANUFACTURERS' INSTALLATION MANUALS FOR ALL WIRING DIAGRAMS, SCHEMATICS, PHYSICAL EQUIPMENT SIZES, ETC., BEFORE BEGINNING THE SYSTEM INSTALLATION.  
INSTALL FIRE ALARM SYSTEM PER NFPA 72 AND NFPA 70, ARTICLE 760.  
FIRE ALARM SYSTEM SHALL BE INSTALLED TO MEET NFPA 72, 3-2.4.  
FIRE ALARM CONTROL PANEL IS POWER LIMITED.  
FIRE ALARM CONTROL PANEL SHALL BE CONNECTED TO A SEPARATE DEDICATED BRANCH CIRCUIT, MAXIMUM 20 AMPERES. THIS CIRCUIT SHALL BE LABELED (IN RED) AT THE MAIN POWER DISTRIBUTION PANEL AS "FIRE ALARM CONTROL CIRCUIT".  
ALL FIRE ALARM EQUIPMENT SHALL BE UL LISTED AND COMPATIBLE FOR FIRE SERVICE.  
ALL WEATHER EXPOSED DEVICES SHALL BE UL LISTED FOR OUTDOOR USE.  
BATTERY BACKUP SHALL CONFORM TO NFPA 71, 1-3.2.6.  
NOT LESS THAN 24 HOURS + 15 MINUTES OF ALARM UPON A NORMAL AC POWER FAILURE.  
LOCATE SMOKE DETECTOR AT FIRE ALARM CONTROL PANEL PER NFPA 72, 1-5.6.  
SIGNAL CIRCUIT EXPANDER MUST BE CONNECTED TO A DEDICATED PRIMARY ELECTRICAL SOURCE OF 120VAC WITH EARTH GROUND CLEARLY MARKED (IN RED), "FIRE ALARM CONTROL CIRCUIT".  
**ALARM NOTIFICATION APPLIANCES**  
UNDER MAXIMUM NORMAL LOAD FOR 24 HOURS AND THEN SHALL BE CAPABLE OF OPERATING THE SYSTEM DURING A FIRE OR EMERGENCY CONDITION FOR A PERIOD OF 15 MINUTES.  
PARALLEL BRANCHING OF NOTIFICATION CIRCUITS (T-TAPPING) IS NOT ALLOWED.  
**DEVICE INFORMATION:**  
MANUAL PULL STATIONS SHALL BE LOCATED AT 48" AFF, MAXIMUM 34" ON SIDE APPROACH.  
WALL MOUNTED SMOKE DETECTORS SHALL BE LOCATED AT 4" MINIMUM AND 12" MAXIMUM FROM CEILING.  
ALTI-F AND VISUAL APPLIANCE LOCATIONS TO MEET NFPA 72, 6-3, 6-4 AND 6-5.  
SYNCHRONIZE STROBES AS REQUIRED.  
STROBE LIGHTS SHALL MEET THE REQUIREMENTS OF THE ADA, UL STANDARD 1971.  
STROBE INTENSITY AND FLASH RATE SHALL MEET THE REQUIREMENTS OF UL 1971.  
**WIRING:**  
TYPE FPL, FPLP, FPLR FIRE ALARM POWER LIMITED FIRE PROTECTION CABLE MAY BE USED IN THE INSTALLATION.  
WIRING SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND NATIONAL CODES.  
ALL FIELD WIRING SHALL BE ELECTRICALLY SUPERVISED FOR OPEN CIRCUIT AND GROUND FAULT.  
ALL INITIATING DEVICES SHALL POINT ANNUNCIATE ON LED TYPE PANEL LOCATED IN FIRE CONTROL ROOM.  
**GROUNDING:**  
ALL EQUIPMENT SHALL BE GROUNDED PER NEC-250 AND MANUFACTURERS' REQUIREMENTS.



COUNCIL CHAMBER BUILDING FLOOR PLAN - FIRE ALARM



NOTE:  
REMOVAL OF ALL EXISTING FIRE ALARM DEVICES IS REQUIRED.



DETEL CORPORATION  
IN THE PORT OF FLORIDA

REVISIONS:

PROJECT  
COCONUT CREEK GOVERNMENT CENTER

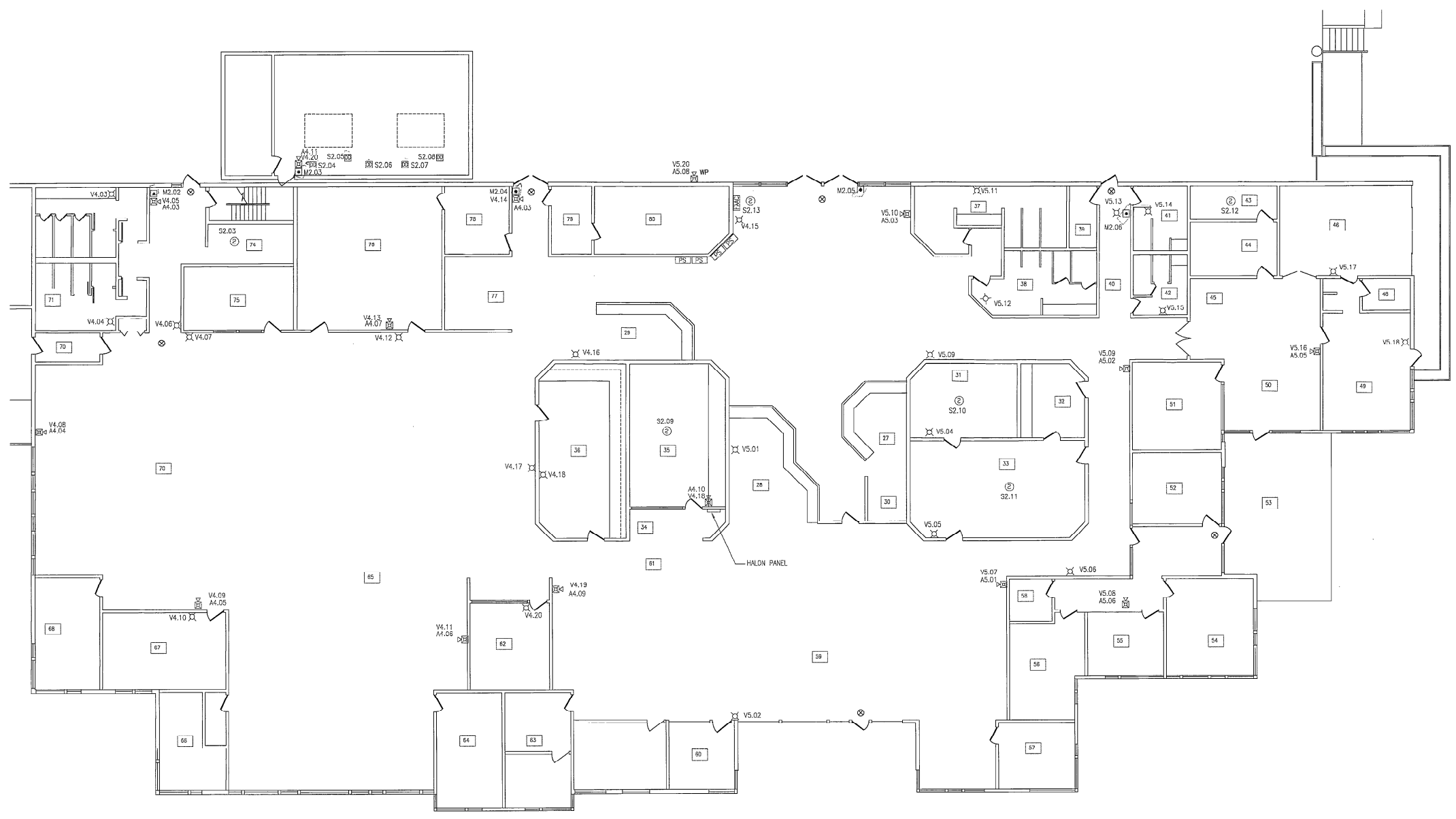
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*Diana Adams*  
4/16/04

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CHECKED BY: DDD  
SCALE: 1/8"=1'-0"  
DATE: 01/08/04

DRAWING NO.  
FA-1  
SHEET 2 OF 6

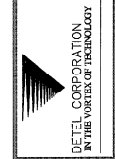
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13/00/04



ADMINISTRATION BUILDING FLOOR PLAN - FIRE ALARM



NOTE:  
REMOVAL OF ALL EXISTING FIRE ALARM DEVICES IS REQUIRED.



REVISIONS:

PROJECT  
COCONUT CREEK GOVERNMENT CENTER

SHEET TITLE  
ADMINISTRATION BUILDING FLOOR PLAN - FIRE ALARM

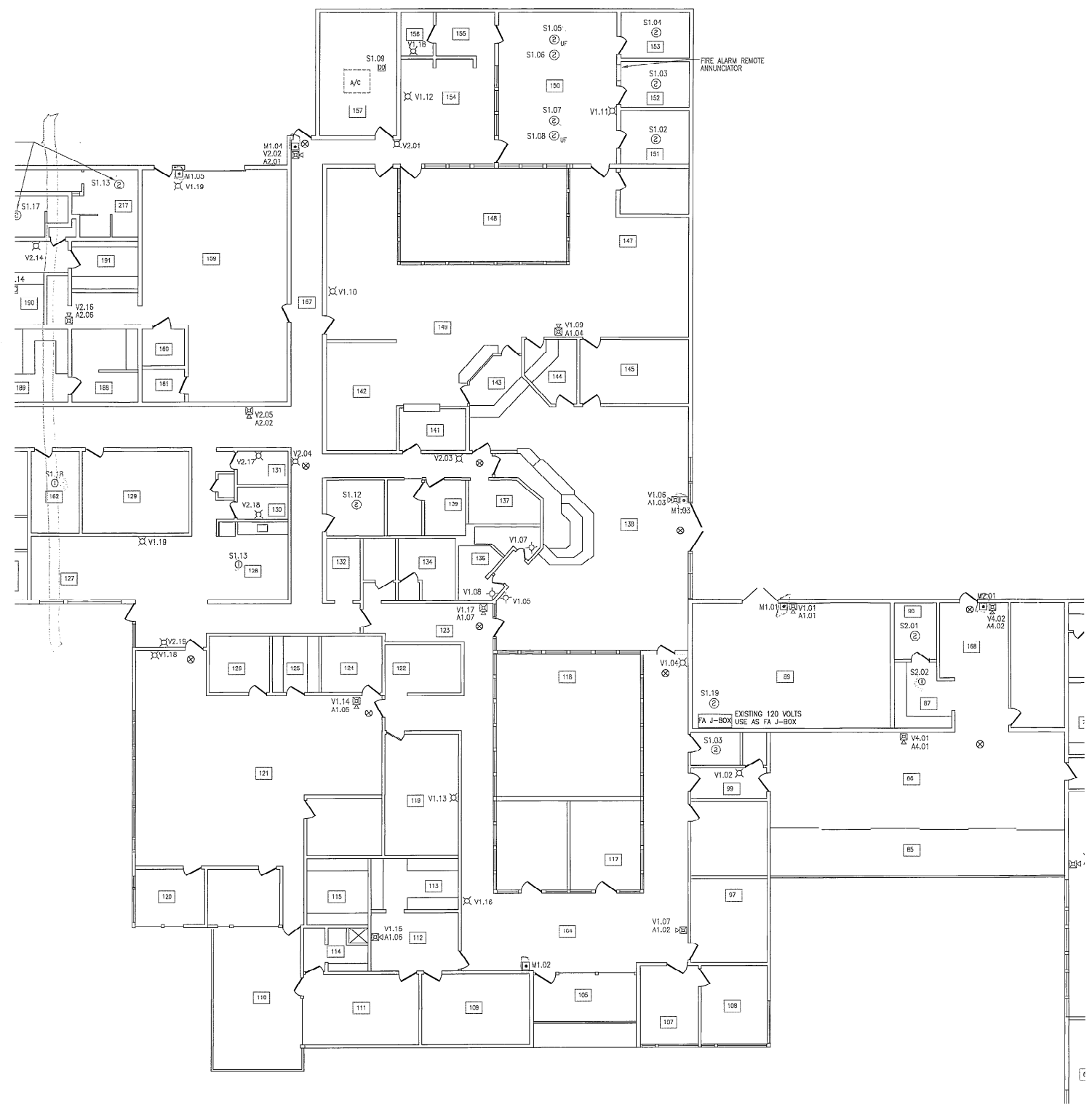
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4/26/04

DRAWN BY: EMBT  
CHECKED BY: BDD  
SCALE: 1/8"=1'-0"  
DATE: 07/19/04

DRAWING No. FA-2  
SHEET 3 OF 6



2004  
10/15/04  
10:40:00



PUBLIC SAFETY BUILDING FLOOR PLAN - FIRE ALARM




NOTE:  
REMOVAL OF ALL EXISTING FIRE ALARM DEVICES IS REQUIRED.



REVISIONS:

PROJECT  
COCONUT CREEK GOVERNMENT CENTER

SHEET TITLE  
PUBLIC SAFETY BUILDING FLOOR PLAN - FIRE ALARM

  
 4/1/04

DRAWN BY: FEWTT  
 CHECKED BY: DDD  
 SCALE: 1/8" = 1'-0"  
 DATE: 01/18/06



DRAWING NO. FA-03  
 SHEET 4 OF 6



DATE  
 PROJECT  
 NUMBER



REVISIONS:

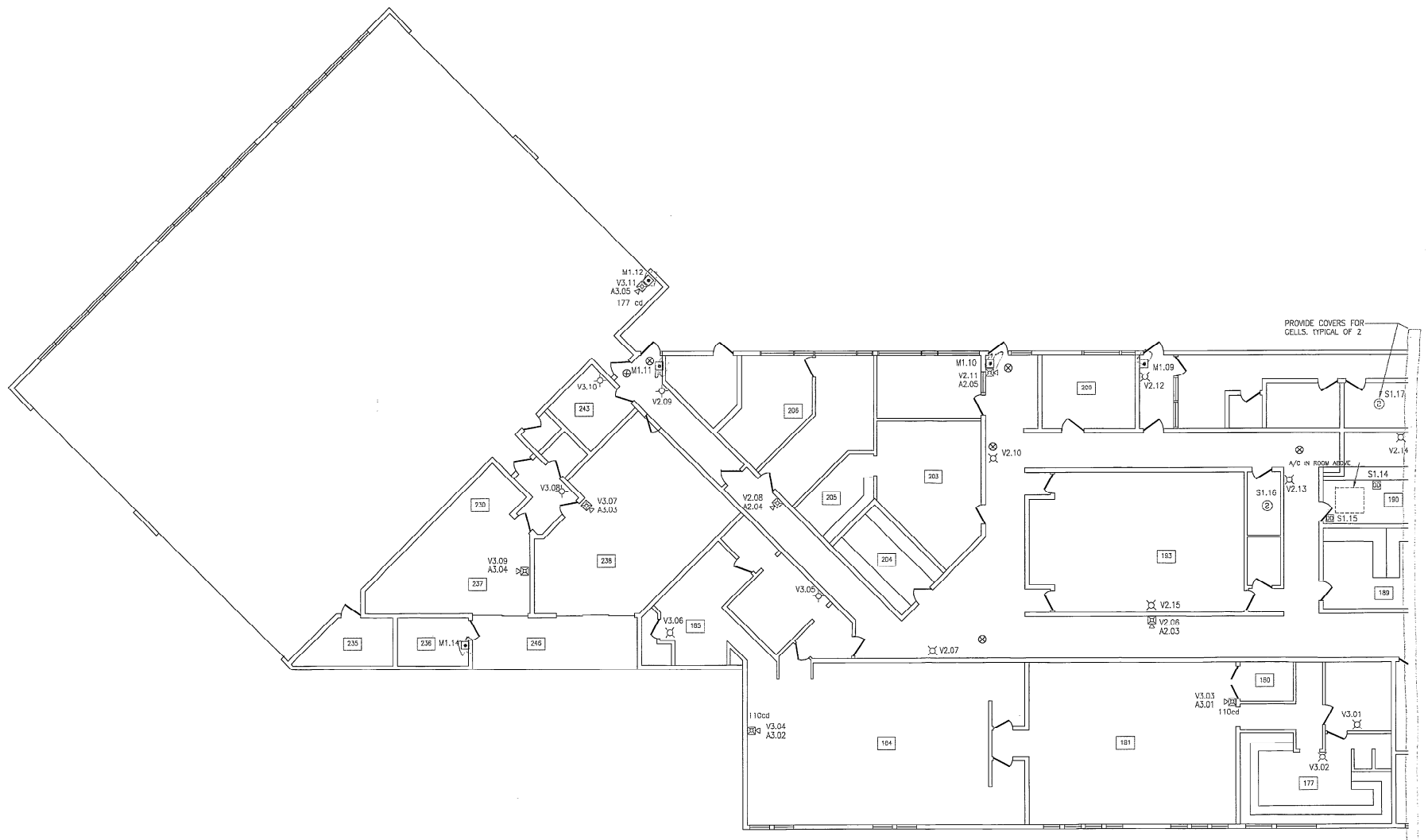
PROJECT  
 COCONUT CREEK GOVERNMENT CENTER

SHEET TITLE  
 DETENTION AND APPARATUS BUILDING FLOOR PLAN -  
 FIRE ALARM

*Drawn by: [Signature]*  
 4/12/04

DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 SCALE: 1/8" = 1'-0"  
 DATE: 07/15/04

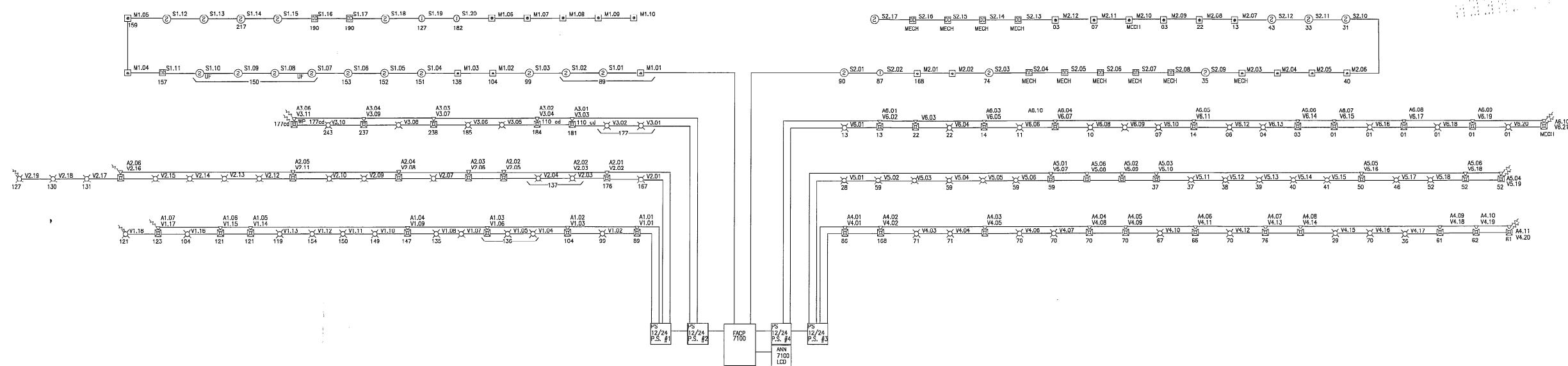
DRAWING No. FA-4  
 SHEET 5 OF 6



DETENTION AND APPARATUS BUILDING FLOOR PLAN - FIRE ALARM



- NOTES:  
 1. REMOVAL OF ALL EXISTING FIRE ALARM DEVICES IS REQUIRED.  
 2. ALL EXPOSED WIRING MUST BE APPROVED BY THE CITY.



**FIRE ALARM RISER DIAGRAM**

N.T.S.  
NOTE:  
ALL FIRE ALARM STROBE SHALL BE 75 CANDELA, UNLESS OTHERWISE NOTED.

**GENERAL FIRE ALARM NOTES**

- THE ELECTRICAL CONTRACTOR SHALL MAKE A THOROUGH INVESTIGATION OF THE SITE IN ORDER TO FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS, PARTICULARLY THE EXISTING FIRE ALARM DEVICES TO BE REMOVED IN ORDER TO TRACE, TAG AND ASSIGN THE CIRCUITS TO THE NEW LAYOUT AND TO DETERMINE IF ANY NEW CIRCUITS WILL BE NEEDED FOR THE NEW LAYOUT.
- NOT USED.
- NOT USED.
- ELECTRICAL DRAWINGS SHOW APPROXIMATE LOCATIONS OF EXISTING DEVICES, EQUIPMENT, ETC., AND DO NOT NECESSARILY INDICATE THE COMPLETE EXISTING INSTALLATION. ELECTRICAL CONTRACTOR SHALL COORDINATE THE WORK THAT IS TO BE PERFORMED.
- ALL EXISTING FIRE ALARM CONDUITS EMBEDDED IN WALLS AND/OR SLABS THAT ARE NOT BEING REUSED, SHALL BE SEALED AND ABANDONED. ALL CONDUITS STUBBING-UP FROM FLOOR, SHALL BE CUT FLUSH WITH FLOOR, SEALED, AND ABANDONED.
- ALL EXISTING FIRE ALARM EXPOSED RACEWAYS NOT TO BE USED, INCLUDING THOSE IN CEILING SPACE WHERE ACCESSIBLE, SHALL BE REMOVED.
- ALL EXISTING CONDUITS NOT IN USE SHALL BE REMOVED FROM THE DEVICE TO THE CONTROL PANEL.
- ELECTRICAL CONTRACTOR SHALL MAINTAIN CIRCUIT CONTINUITY WHEN REMOVING FIRE ALARM DEVICES, EQUIPMENT, ETC., WHEN APPLICABLE.
- THE NATURE OF THE FIRE ALARM SYSTEM UPGRADE POSES SPECIAL PROBLEMS FOR THE DESIGN ENGINEERS AS WELL AS THE ELECTRICAL CONTRACTOR. EVERY EFFORT HAS BEEN MADE BY THE ENGINEERS TO SHOW AND VERIFY, WHEN POSSIBLE, THE LOCATION OF THE EXISTING FIRE ALARM DEVICES AND EQUIPMENT. THE MAJOR PORTIONS OF THE FIRE ALARM SYSTEMS ARE AS SHOWN ON THE DRAWINGS. HOWEVER, MINOR DEVIATIONS MAY BECOME EVIDENT AS THE JOB PROGRESSES. NO ADVANTAGE IS TO BE TAKEN BY THE ELECTRICAL CONTRACTOR BECAUSE OF THE MINOR DIFFERENCES. ELECTRICAL CONTRACTOR SHALL SUBMIT TO THE BID AN AMOUNT THAT WOULD BE SET ASIDE FOR UNIDENTIFIED ITEMS OR PERFORM A FIELD VERIFICATION BEFORE BIDDING THIS PROJECT. CONTRACTOR SHALL PROVIDE AN ALLOWANCE FOR THE FOLLOWING:  
 6 SMOKE DETECTORS  
 6 MANUAL PULL STATIONS  
 6 HEAT DETECTORS  
 2 DUCT DETECTORS  
 2 FIRE ALARM SPEAKERS  
 5 FIRE ALARM VISUAL DEVICES  
 5 FIRE ALARM HORNS  
 5 MONITOR MODULES  
 5 RELAYS FOR EXHAUST FANS  
 THIS ALLOWANCE SHALL BE PER DEVICE AND INCLUDE 30 FEET OF WIRE, CONDUIT, INSTALLATION, AND PROGRAMMING.
- PROVIDE GROUNDING CONDUCTOR TO ALL TRANSPONDERS AS REQUIRED.
- ALL SPICES SHALL BE DONE IN PROPER JUNCTION BOXES OR OUTLETS WITH PROPER CONNECTORS.
- PROVIDE BLANK COVER PLATES TO ALL JUNCTION BOXES WITHIN THE SCOPE OF THIS PROJECT.
- ALL ELECTRICAL RACEWAYS SHALL BE SUPPORTED IN ACCORDANCE WITH THE N.E.C. AND LOCAL CODES.
- PROVIDE FIRE PROOFING SEAL WHERE CONDUITS CROSS FLOOR SLAB AND/OR FIRE RATED WALLS. IT IS THE INTENT OF THE N.E.C. THAT ELECTRICAL EQUIPMENT, RACEWAYS, ETC. BE INSTALLED IN SUCH A MANNER THAT IT WILL NOT CONTRIBUTE TO THE SPREAD OF FIRE THROUGH THE EXPOSED COMPONENT PARTS OF A BUILDING.
- PROVIDE RACEWAYS AND/OR JUNCTION BOXES FOR ALL UNAPPROVED EXPOSED WIRING.
- ALL FIRE ALARM WIRING SHALL BE TYPE FPL, FPLR POWER LIMITED FIRE PROTECTION CABLE.
- ALL EXISTING AND NEW FIRE ALARM EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE N.E.C. AND ALL APPLICABLE LOCAL CODES.
- ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THAT ALL EXISTING BRANCH CIRCUIT CONDUITS SHALL BE THIN/WHM. IF EXISTING CONDUITS ARE DIFFERENT AND/OR OLD, NOTIFY THE ENGINEER IMMEDIATELY. THESE CONDUITS SHALL BE REPLACED. ELECTRICAL CONTRACTOR SHALL VERIFY THIS MATTER IN FIELD PRIOR TO RISING.
- THESE DRAWINGS ARE A GUIDE FOR THE INSTALLATION OF THE FIRE ALARM SYSTEM. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM.
- CONDUIT AND CEILING BOXES SHALL BE SUPPORTED FROM STRUCTURE. THE WIRE IS NOT ACCEPTABLE.
- NOT USED.
- WHERE EXISTING CEILING DEVICES ARE INDICATED TO BE REMOVED, CEILING TILE (FURNISHED BY OWNER) WILL BE REPLACED WITH A NEW CEILING TILE BY CONTRACTOR.
- WHERE EXISTING FIRE ALARM DEVICES OR CONTROL PANELS ARE INDICATED TO BE REMOVED, CONTRACTOR SHALL PATCH WALL CAVITY TO MATCH EXISTING SURROUNDING SURFACE.
- ADDRESSABLE LOOPS SHALL NOT BE LOADED TO MORE THAN 80% OF ITS CAPACITY.
- NO "T" TAPPING SHALL BE PERMITTED ON ANY ADDRESSABLE LOOP OR SIGNAL CIRCUIT.
- NOT USED.
- THE CERTIFICATION OF THE FIRE ALARM SYSTEM SHALL BE DONE USING THE FORM IN NFPA-72 AND THE DETECTOR SENSITIVITY REPORT SHALL BE COMPLETED AND SIGNED BY THE SYSTEM REPRESENTATIVE AND THE OWNER.
- ALL FIRE ALARM CIRCUITS SHALL BE SUPERVISED IN ACCORDANCE WITH NFPA-101, CHAPTERS 7-8 AND NFPA-72.
- ALL ANNUNCIATOR CIRCUITS SHALL BE SUPERVISED.
- ALL FIRE ALARM STROBE LIGHTS NEED NOT BE IN THE SAME LOCATION AS THE AUDIBLE DEVICES, BUT SHALL BE NOTICEABLE THROUGHOUT THE CORRIDOR.
- ALL WORK SHALL BE IN ACCORDANCE WITH FLORIDA BUILDING CODE - 2002 (WITH 2003 AMENDMENTS) ALL FIRE ALARM WIRING SHALL BE IN ACCORDANCE WITH NFPA 701(B)(1) (NEC) ARTICLE 750.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING SMOKE/FIRE PARTITIONS.
- WHERE EXISTING CONDUITS AND OPEN WIRING CROSSING EXISTING SMOKE/FIRE PARTITIONS ARE FOUND, THE ELECTRICAL CONTRACTOR SHALL DO THE FOLLOWING:  
 a. METAL CONDUITS PROVIDE BLOW PATCH. SUPPORT CONDUIT FROM STRUCTURE AT LEAST 12" FROM SUBJECT PARTITION ON BOTH SIDES.  
 b. OPEN WIRING (CABLE): PROVIDE METAL CONDUIT SLEEVE. SLEEVE SHALL EXTEND A MINIMUM OF 6" ON BOTH SIDES OF SUBJECT PARTITION. PROVIDE BLOW OUT PATCH. PROVIDE FIRE SEALING STUFFING IN CONDUIT SLEEVE AFTER CABLE HAS BEEN INSERTED.
- WORK TO BE PERFORMED BY THE ELECTRICAL CONTRACTOR WHICH MAY RESULT IN THE DISRUPTION OF ESSENTIAL ELECTRICAL SYSTEMS, SUCH AS EMERGENCY POWER WIRING, FIRE ALARM, EMERGENCY COMMUNICATIONS, EMERGENCY SIGNALS, ETC. SHALL BE COORDINATED AND SCHEDULED WITH THE CITY REPRESENTATIVE PRIOR TO EXECUTION.
- ALL NEW TRANSPOUNDER ENCLOSURES SHALL BE LABELED WITH LAMINATED BAKELITE, PRINTING WHITE LETTERS ON A RED BACKGROUND, INDICATING HORIZONTAL NUMBER. THIS LABEL SHALL BE PLACED ON THE OUTSIDE OF THE FRONT DOOR.
- EACH TRANSPOUNDER SHALL HAVE A DIRECTORY INDICATING TRANSPOUNDERS BOARD NUMBERS AS REQUIRED AND AS SHOWN ON RISER DIAGRAM. THE DIRECTORY SHALL ALSO INDICATE FLOORS AND BUILDINGS SERVED, AND FROM WHICH PANEL AND CIRCUIT NUMBER IS THE POWER SUPPLY. THIS DIRECTORY SHALL BE PLACED IN A CLEAR PLASTIC POCKET INSIDE THE CABINET.
- ALL FIRE ALARM JUNCTION BOXES ARE TO BE PAINTED IN RED.
- CONDUIT PENETRATIONS OF RATED WALLS SHALL BE AT 90 DEGREE PENETRATIONS OR
- SMOKE DETECTORS SHALL BE LOCATED AT A MAXIMUM OF 30 FEET ON CENTER AND NO MORE THAN 15 FEET FROM BOTH ENDS OF ALL CORRIDORS.
- DUCT DETECTOR TROUBLE CONDITION SHALL BE INDICATED VISUALLY OR AUDIBLY IN A NORMALLY OCCUPIED AREA AND SHALL BE INDICATED AS AIR DUCT DETECTOR TROUBLE.
- DUCT SMOKE DETECTOR SHALL BE THE SAME AS SCHEDULED AND SHALL BE INSTALLED WITHIN AN AIR-TIGHT HOUSING.
- THE FIRE ALARM VISUAL INDICATION THROUGHOUT THE BUILDING SHALL NOT BE CANCELLED BY AN AUDIBLE SILENCING SWITCH.
- ALL HEAT/SMOKE DETECTORS SHALL BE NO LESS THAN 35 INCHES AWAY FROM ANY A/C DIFFUSER. ELECTRICAL CONTRACTOR SHALL COORDINATE LAYOUT BEFORE BID AND/OR ORDER OF DEVICES.
- FIRE ALARM SHUT DOWN RELAYS, WHEN USED, SHALL BE MOUNTED WITHIN THREE FEET OF ACTUAL DEVICE BEING CONTROLLED. THE DEVICE BEING CONTROLLED ACCORDING TO NFPA IS THE ACTUAL FAN, MOTOR, OR DOOR LOCK, ETC.

**GENERAL NOTES**

- FIRE ALARM SYSTEM SHALL BE FIRELITE OR FCI. NO SUBSTITUTIONS ALLOWED.
- CITY WILL BE RESPONSIBLE FOR REPAIR AND PATCHING OF WALLS AS NEEDED TO ACCOMMODATE RELOCATION OF DEVICES. ALL OPENINGS AND DEMOLITION OF WALLS SHALL BE KEPT TO A MINIMUM IN NUMBER AND SIZE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SLEEVING AND FIRE CALKING.
- SURFACE RELOCATION OF DEVICES SHALL BE PREAPPROVED BY CITY PRIOR TO WORK.
- CONTRACTOR SHALL SUBMIT, AS PART OF BID, THE NUMBER OF CALENDAR DAYS TO COMPLETE THIS PROJECT. THIS SHALL BE FROM DAY OF PERMIT TO COMPLETION OF PROJECT.
- THE GOAL OF THE CITY IS TO COMPLETE ALL WORK WITHIN THIS CONTRACT WITHIN 60 CALENDAR DAYS.
- CONTRACTOR SHALL SUBMIT, AS PART OF BID APPLICATION, THE DATE OF U.L. APPROVAL OF ALL EQUIPMENT REQUIRED UNDER THIS CONTRACT.
- MANUAL FIRE ALARM PULL STATIONS SHALL BE USED FOR FIRE PROTECTIVE SIGNALING PURPOSES ONLY.
- SOUNDERS SHALL BE OF SUCH CHARACTER AND LOCATED IN SUCH A WAY THAT CAN BE HEARD THROUGHOUT AND ABOVE THE AMBIENT NOISE LEVELS IN ACCORDANCE WITH NFPA.
- SHOP DRAWINGS SHALL BE PROVIDED TO THE OWNER SHOWING A POINT-BY-POINT WIRING DIAGRAM AND ANOTHER SET OF SHOP DRAWINGS MUST BE PROVIDED TO THE FIRE MARSHALL, SIGNED AND SEALED BY A FLORIDA REGISTERED ENGINEER FOR APPROVAL PRIOR TO THE BEGINNING OF WORK.
- THE MINIMUM CONDUIT SIZE SHALL BE 3/4" INCH.
- QUANTITY OF WIRES PER DEVICE SHALL BE AS SPECIFIED BY MANUFACTURER. PROVIDE END OF LINE RESISTORS WHERE REQUIRED.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT, CONDUIT, CONDUITORS, DEVICES, ETC., AND ALL OTHER ACCESSORIES REQUIRED TO INSTALL A COMPLETE, FUNCTIONING, AND SATISFACTORY FIRE ALARM SYSTEM PER N.E.C., NFPA, LOCAL CODES AND MANUFACTURER'S INSTRUCTIONS. LOCAL FIRE DEPARTMENT, LOCAL BUILDING ZONING, AND ALL OTHER AUTHORITIES WHICH HAVE JURISDICTION OVER THE SYSTEM. NO ADDITIONAL CHANGES WILL BE ALLOWED FOR ADDITIONAL COMPONENTS WHICH MAY BE NECESSARY TO SATISFY THE REQUIREMENTS OF LOCAL OFFICIALS.
- FINAL CONNECTION BETWEEN EQUIPMENT AND WIRING SYSTEM SHALL BE MADE UNDER DIRECT SUPERVISION OF A QUALIFIED TECHNICAL REPRESENTATIVE OF THE EQUIPMENT MANUFACTURER WHO SHALL TEST THE SYSTEM COMPLETELY AND PROVIDE A CERTIFICATE OF THE FIRE ALARM SYSTEM PRIOR TO FINAL ACCEPTANCE OF THE SYSTEM BY OWNER.
- ALL AIR HANDLERS OF 2,000 CFM TO 15,000 CFM SHALL HAVE (1) DUCT SMOKE DETECTOR ON THE SUPPLY SIDE AND (1) DUCT SMOKE DETECTOR ON THE RETURN SIDE. ALL SMOKE DETECTORS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM AS INTAKING DEVICES.
- ELECTRICAL CONTRACTOR SHALL PROVIDE SHUT-DOWN RELAYS FOR ALL EXHAUST FANS. EXHAUST FANS SHALL BE SHUT-DOWN UPON THE FIRE ALARM ACTIVATION OF THE CORRESPONDING ZONE, WITH THE EXCEPTION OF ISOLATION FANS.
- ALL EXISTING CONDUITS TO REMAIN SHALL BE FIRST, WHERE APPLICABLE.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL BRANCH CIRCUITS TO SUPPORT FIRE ALARM SYSTEM AS REQUIRED. CONTRACTOR SHALL FIELD VERIFY ELECTRICAL PANEL LOCATIONS AND CONNECT 120 VOLT CIRCUIT TO THE AVAILABLE EMERGENCY SYSTEM PANEL. ALL WIRING SERVING 120 VOLTS OR GREATER SHALL BE THWN AND RUN IN METAL RACEWAY WITH REDUNDANT GROUND WIRE.
- SYNCHRONIZE MORE THAN TWO APPLIANCES IN ANY FIELD OF VIEW, SPACED A MINIMUM OF 55'-0" FROM EACH OTHER PER NFPA 72, SECTION 4-4.4.1.1.(1).
- SYSTEM AND EQUIPMENT SHALL BE NON-PROPRIETARY WITH AT LEAST 3 AUTHORIZED DISTRIBUTORS WITHIN 50 MILES OF CONSTRUCTION SITE, AND MUST BE ABLE TO RESPOND TO THE SITE WITHIN 60 MINUTES, 24 HOURS A DAY, 7 DAYS A WEEK.
- EQUIPMENT TO BE FIRELITE OR FCI.

DETEL CORPORATION  
A DIVISION OF TECHNOLOGY

COCONUT CREEK GOVERNMENT CENTER

FIRE ALARM RISER DIAGRAM

DRAWN BY: RWT  
CHECKED BY: DDD  
SCALE: NONE  
DATE: 07/18/04

DRAWING NO. FA-5  
SHEET 6 OF 6



REC'D  
9-13-04  
C. GREEN

OFFICE COPY

CITY OF COCONUT CREEK, DEVELOPMENT SERVICES BROWARD COUNTY, FLORIDA		
INSPECTIONS	APPROVED BY	DATE
ZONING		
LANDSCAPING		
ENGINEERING		
FIRE	<i>[Signature]</i>	9/13/04
STRUCTURAL		
ELECTRICAL	<i>[Signature]</i>	9/13/04
PLUMBING		
METEOROLOGICAL		
PERMIT #	04002577	DATE 9/13/04

NOTE: THE PERMIT EXPIRES 90 DAYS AFTER THE DATE OF PERMIT ISSUE. PLANS MUST BE ON JOB BEFORE ANY INSPECTION WILL BE MADE.

94002577 PART OF COCONUT CREEK  
3800 W. COPLANES RD - CITY HALL  
BASS UNITED FIRE & SECURITY  
CITY OF COCONUT CREEK  
FIRE ALARM

B-3