

TENDER 2016.11.09

EXISTING BUILDING RENOVATION HALON FIRE SUPPRESSION REMOVAL AND FIRE ALARM UPGRADES RED DEER, ALBERTA

Stantec Project #: 144210170.210

ARCHITECT:

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325 - 25 ST SE
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MECHANICAL ENGINEER:

STANTEC CONSULTING LTD.

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ELECTRICAL ENGINEER:

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DRAWING INDEX - MECHANICAL	
SHEET NUMBER	SHEET NAME
M101	SECOND FLOOR - FIRE PROTECTION DEMOLITION PLAN

DRAWING INDEX - ELECTRICAL	
SHEET NUMBER	SHEET NAME
E001	ELECTRICAL SYMBOL LEGEND, NOTES AND DRAWING LIST
E100	BASEMENT FLOOR PLAN - DEMOLITION FIRE ALARM SYSTEM
E200	MAIN FLOOR PLAN - DEMOLITION FIRE ALARM SYSTEM
E300	SECOND FLOOR PLAN - DEMOLITION FIRE ALARM SYSTEM
E400	BASEMENT FLOOR PLAN - NEW FIRE ALARM SYSTEM
E500	MAIN FLOOR PLAN - NEW FIRE ALARM SYSTEM
E600	SECOND FLOOR PLAN - NEW FIRE ALARM SYSTEM



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Client/Project

GOVERNMENT OF CANADA
EXISTING BUILDING RENOVATION
HALON FIRE SUPPRESSION REMOVAL &
FIRE ALARM UPGRADES
RED DEER, ALBERTA

Title
ELECTRICAL SYMBOL LEGEND, NOTES,
AND DRAWING LIST

Project No. 144210170.210 Scale AS SHOWN

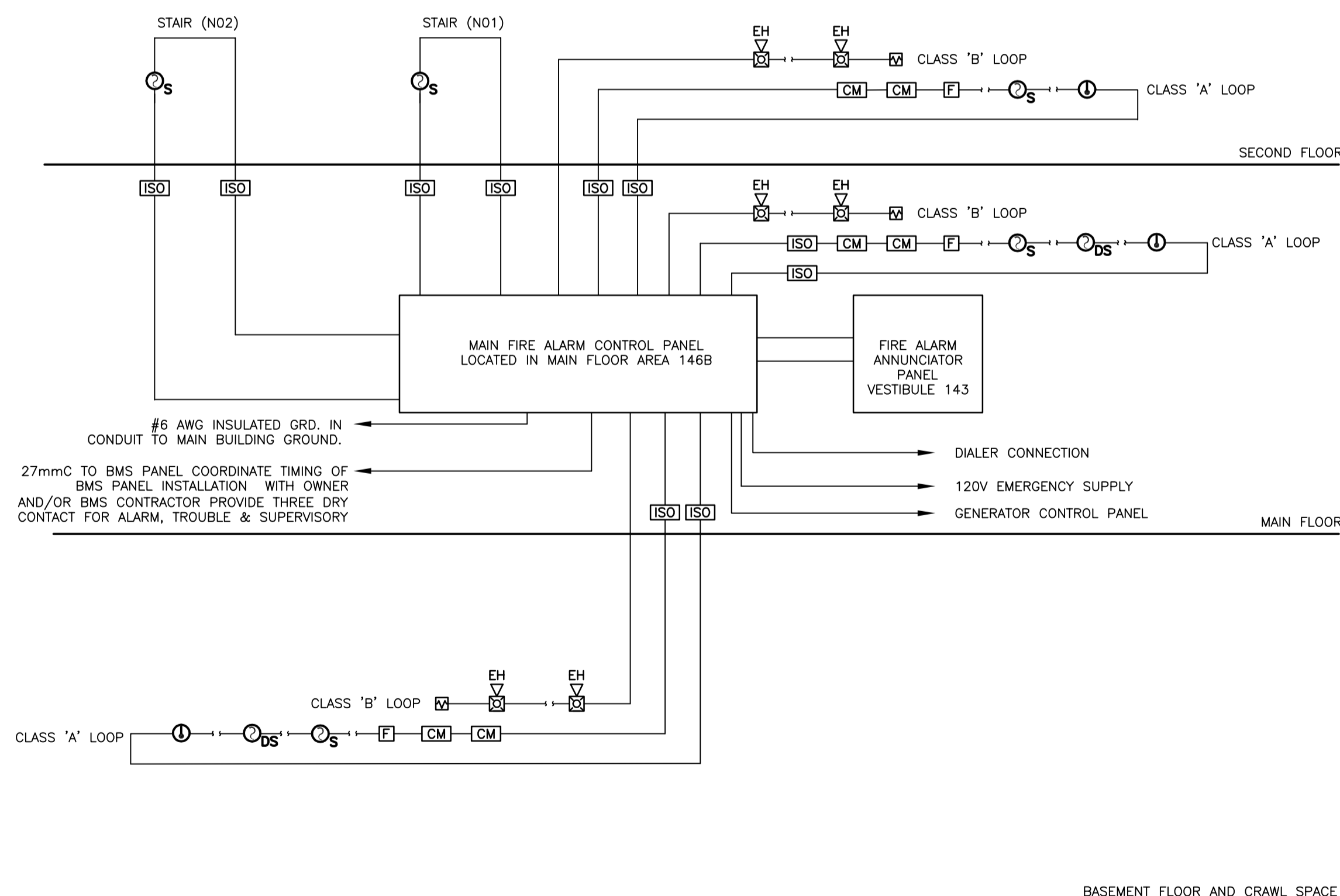
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Sheet 1 of 7

E001

SYMBOL SCHEDULE

FIRE ALARM SYMBOLS		ABBREVIATIONS	
[F]	FIRE ALARM MANUAL PULL STATION	EX	EXISTING DEVICE TO REMAIN
[B]	FIRE ALARM BELL	RE	REMOVE EXISTING DEVICE
[PZ]	FIRE ALARM PIEZO (MINI) SOUNDER	RP	REPLACE EXISTING DEVICE WITH NEW DEVICE
[EH]	FIRE ALARM ELECTRONIC HORN/SOUNDER/CHIME	RL	RELOCATE EXISTING DEVICE
[EH]	FIRE ALARM ELECTRONIC HORN/SOUNDER/CHIME c/w STROBE	ER	EXISTING DEVICE IN RELOCATED POSITION
[HS]	FIRE ALARM HORN SPEAKER	AFF	ABOVE FINISHED FLOOR
[CS]	FIRE ALARM CONE SPEAKER	AFG	ABOVE FINISHED GRADE
[CS]	FIRE ALARM CONE SPEAKER c/w STROBE	BMS	BUILDING MANAGEMENT SYSTEM
[X]	CEILING MOUNTED REMOTE EVACUATION STROBE	OC	ON CENTER
[X]	WALL MOUNTED REMOTE EVACUATION STROBE	JB	JUNCTION BOX
[C]	CARBON MONOXIDE ALARM	NC	NORMALLY CLOSED
[D]	FIRE ALARM HEAT DETECTOR (RATE OF RISE UNLESS OTHERWISE INDICATED)	NO	NORMALLY OPEN
[S]	FIRE ALARM SMOKE DETECTOR	SPD	SURGE PROTECTIVE DEVICE
[DS]	FIRE ALARM SMOKE DETECTOR, DUCT MOUNTED	TYP	TYPICAL
[SA]	SMOKE ALARM	WP	WEATHERPROOF
[SA]	FLAME DETECTOR	#D/#V	NUMBER DATA AND VOICE CABLES
[FAA]	FIRE ALARM ANNUNCIATOR PANEL	.	INDICATES DEVICE MOUNTED ABOVE MILLWORK COUNTERTOP COORDINATE EXACT MOUNTING HEIGHT WITH ARCH. DETAIL
[FACP]	FIRE ALARM CONTROL PANEL	*	INDICATES DEVICE MOUNTED BELOW MILLWORK COUNTERTOP COORDINATE EXACT MOUNTING HEIGHT WITH ARCH. DETAIL
[CACF]	CENTRAL ALARM & CONTROL FACILITY	>	INDICATES DEVICE MOUNTED IN FURNITURE SYSTEM
[T]	FIRE ALARM EMERGENCY TELEPHONE	▷	INDICATES DEVICE MOUNTED ABOVE DATA RACK
[H]	FIRE ALARM MAGNETIC DOOR HOLD OPEN DEVICE	ST-##	STROBE ADDRESS
[RFA]	FIRE ALARM RELAY	HR-##	HORN ADDRESS
[EOL]	FIRE ALARM END OF LINE RESISTOR	PS-##	PULLSTATION ADDRESS
[ISO]	FIRE ALARM FAULT ISOLATION MODULE	HD-##	HEAT DETECTOR ADDRESS
[CM]	FIRE ALARM CONTROL MODULE	SD-##	SMOKE DETECTOR ADDRESS
[MM]	FIRE ALARM MONITOR MODULE		
[PS]	FIRE ALARM CONNECTION TO PRESSURE SWITCH		
[FS]	FIRE ALARM CONNECTION TO FLOW SWITCH		
[TS]	FIRE ALARM CONNECTION TO TAMPER SWITCH		
[LS]	FIRE ALARM CONNECTION TO LEVEL SWITCH		
GENERAL SYMBOLS			
[#]	NOTE REFERENCE		
[##] [###]	EQUIPMENT REFERENCE		
[A]	REVISION NUMBER		
[W]	WIRING HOME RUN		



1 FIRE ALARM RISER DIAGRAM
E001 NTS

FIRE ALARM RISER DIAGRAM NOTES:

- ALL END OF LINE RESISTORS TO BE MOUNTED IN TERMINAL CABINETS.
- FIRE ALARM CABLE SHOULD BE FAS-90 CABLE INSTALLED IN EMT CONDUIT. THE MINIMUM WIRE SIZE SHALL NOT BE LESS THAN #14 AWG FOR FIRE ALARM NOTIFICATION CIRCUITS AND #18 AWG FOR FIRE ALARM DIGITAL COMMUNICATION LINK DLC.
- BMS INTERFACE TO REPORT ALARM, SUPERVISORY, TROUBLE AND POWER FAILURE. BMS CONTRACTOR SHALL DO THE WIRING.
- GENERATOR INTERFACE TO INDICATE START, TROUBLE, AND SUPERVISORY.
- FIRE ALARM INTEGRAL BATTERIES SHALL BE CAPABLE OF MAINTAINING SUPERVISORY POWER AT FULL LOAD TO COVER THE GAP BETWEEN POWER FAILURE AND GENERATOR START UP. VERIFY GENERATOR START TIME WITH OWNER.
- REFER TO FLOOR PLAN FOR FIRE ALARM DEVICES QUANTITY.
- SEE E4000 GENERAL NOTES#1.
- GENERATOR INTERFACE TO INDICATE START AND TROUBLE AND SUPERVISORY.

ELECTRICAL DRAWING LIST

DRAWING NUMBER	TITLE
E001	ELECTRICAL SYMBOL LEGEND, NOTES AND DRAWING LIST
E100	BASEMENT FLOOR PLAN - DEMOLITION FIRE ALARM SYSTEM
E200	MAIN FLOOR PLAN - DEMOLITION FIRE ALARM SYSTEM
E300	SECOND FLOOR PLAN - DEMOLITION FIRE ALARM SYSTEM
E400	BASEMENT FLOOR PLAN - NEW FIRE ALARM SYSTEM
E500	MAIN FLOOR PLAN - NEW FIRE ALARM SYSTEM
E600	SECOND FLOOR PLAN - NEW FIRE ALARM SYSTEM

FIRE ALARM NOTES:

- ELECTRICAL CONTRACTOR SHALL PERFORM AUDIBILITY TEST TO CONFIRM THAT AVERAGE SPL IS NOT LESS THAN 65dBA @1.5m ABOVE FFL AND 10dBA ABOVE AVERAGE NOISE LEVEL AND ALLOW FOR FIVE ADDITIONAL HORN/STROBE WITHIN BID.
- STROBE CANDELA LEVEL SHALL BE SELECTED ACCORDING TO CAN/ULC-524 TABLES 5, 6 AND 7. STROBES SHOULD NOT BE LESS THAN 15 cd (CANDELA) FOR UP TO 400 SQFT, 30 cd (CANDELA) FROM 400 - 800 SQFT AND 60 cd (CANDELA) FOR OVER 800 SQFT.
- ALL STROBES SHALL BE SYNCHRONIZED.
- THE CONTRACTOR SHALL ALLOW FOR 24/7 FIRE WATCH DURING FIRE ALARM UPGRADE. CO-ORDINATE WITH OWNER BEFORE DEMOLITION OF THE EXISTING FIRE ALARM SYSTEM.
- ALL FIRE ALARM CABLES SHALL BE 2hr. FIRE RATED.
- ALL FIRE ALARM CONDUIT SHALL BE EMT TYPE.

ELECTRICAL GENERAL NOTES:

- ALL ELECTRICAL MATERIALS AND INSTALLATIONS SHOWN AND/OR SPECIFIED SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND SHALL COMPLY IN STRICT ACCORDANCE WITH THE LATEST EDITION OF C.S.A. STANDARDS, THE C.E.C. AND STANDATA.
- ALL CONDUIT WORK, WIRING AND JUNCTION BOXES AS MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR TO PROVIDE AS-BUILT DRAWINGS AT PROJECT COMPLETION.
- ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL TO BUILDING LINES. ALL CONDUIT RUNS ARE TO BE APPROVED PRIOR TO INSTALLATION.
- THE ELECTRICAL CONTRACTOR SHALL SEAL ALL PENETRATIONS FOR RACEWAY, CABLES AND ALL OTHER PENETRATIONS MADE BY THE ELECTRICAL CONTRACTOR THROUGH FIRE RATED ASSEMBLIES TO PREVENT THE SPREAD OF SMOKE AND FIRE. A SYSTEM LISTED IN ULC-FS, FIRESTOP SYSTEMS AND COMPONENTS SHALL BE USED TO MAINTAIN THE FIRE RATING OF THE ASSEMBLIES.
- WHERE EXISTING SURFACES/FINISHES ARE DAMAGED OR WHERE EQUIPMENT/DEVICES ARE REMOVED LEAVING A DEFECT OR NOTICEABLE DIFFERENCE FROM ADJACENT SURFACES CONTRACTOR TO PATCH REPAIR, AND MAKE GOOD EXISTING SURFACE WITH LIKE MATERIALS AND FINISHES SO THAT NO IMPERFECTIONS ARE NOTICEABLE.

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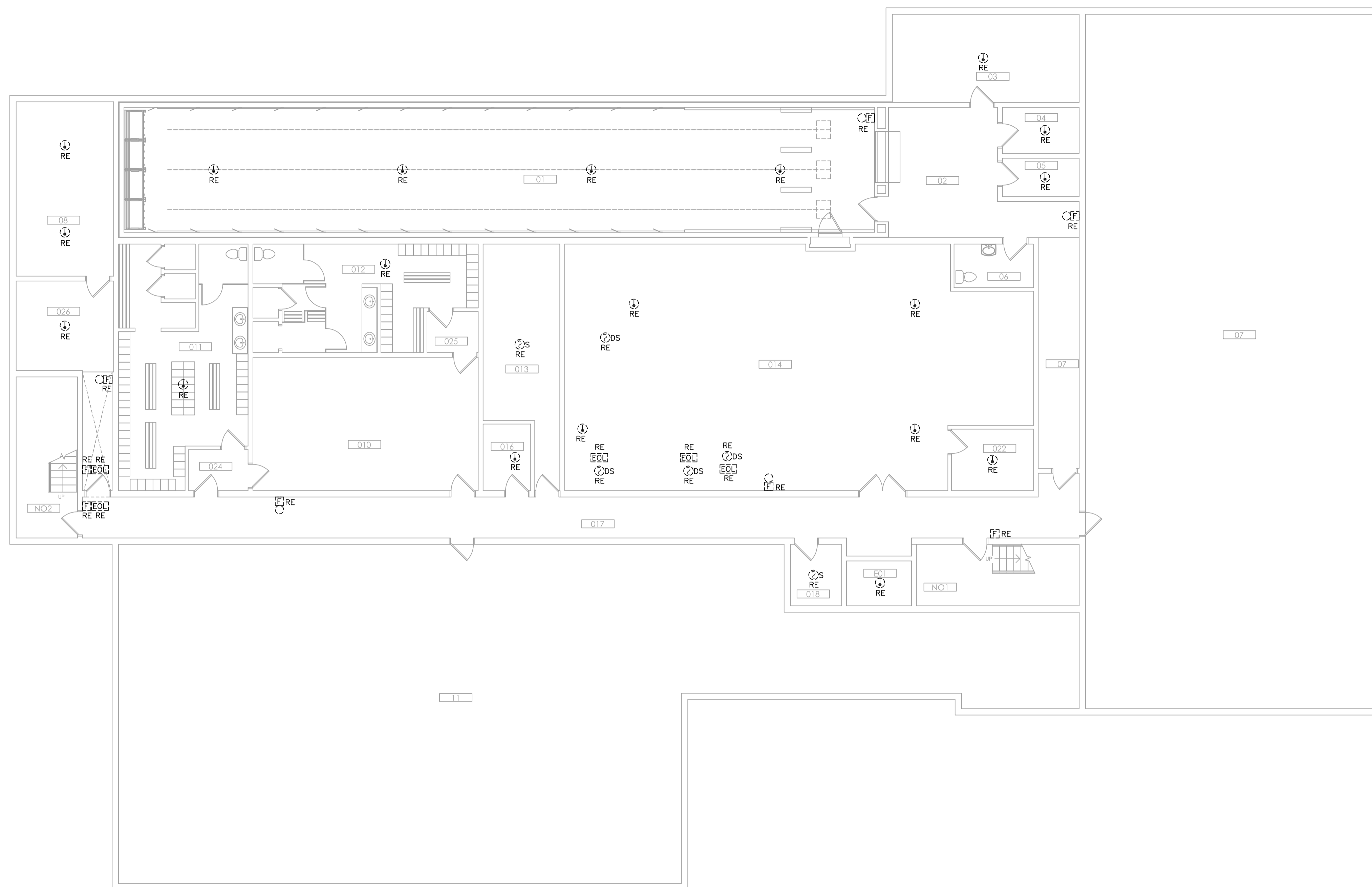
Client/Project
GOVERNMENT OF CANADA
 EXISTING BUILDING RENOVATION
 HALON FIRE SUPPRESSION REMOVAL &
 FIRE ALARM UPGRADES
 RED DEER, ALBERTA

Title
**BASEMENT FLOOR PLAN - DEMOLITION
 FIRE ALARM SYSTEM**

Project No. 144210170.210 Scale AS SHOWN

Revision 00 Drawing No.

Sheet **E100**
 2 of 7



1 BASEMENT FLOOR PLAN – DEMOLITION FIRE ALARM SYSTEM
 E100 1:100

- FIRE ALARM DEMOLITION NOTES:**
1. THESE DEMOLITION DRAWINGS ARE INTENDED TO ASSIST THE ELECTRICAL CONTRACTOR IN ESTABLISHING AREAS REQUIRING DISCONNECTION, REMOVAL OF FIRE ALARM EQUIPMENT, OUTLETS, WIRING, DEVICES, ETC. AND DO NOT INDICATE ALL OUTLETS, EXACT QUANTITIES OR EXTENT OF DEMOLITION. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOBSITE AND THOROUGHLY EXAMINE ALL REQUIRED DEMOLITION WORK AND INCLUDE ALL LABOR AND INCIDENTALS WHICH MAY BE NECESSARY TO PERFORM DEMOLITION.
 2. THE ELECTRICAL CONTRACTOR SHALL REMOVE FROM THE PREMISES AND DISPOSE OF ALL DEMOLISHED FIRE ALARM EQUIPMENT, VERIFY LOCAL AGENCY REQUIREMENTS PRIOR TO BIDDING.
 3. REFER TO MECHANICAL PLANS FOR FURTHER INDICATION OF DEMOLITION AND RENOVATION. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR TEMPORARY OR PERMANENT REMOVAL, DISCONNECTION, AND/OR RELOCATION OF EQUIPMENT AND ASSOCIATED CONTROLS (EXCLUDING MECHANICAL EQUIPMENT).
 4. ELECTRICAL CONTRACTOR TO VISIT THE SITE DURING BIDDING PROCESS, INSPECT AREAS BEING RENOVATED OR DEMOLISHED AND ACQUAINT THEMSELVES FULLY WITH THE EXISTING EQUIPMENT. DISCREPANCIES TO BE REPORTED TO THE ENGINEER 7 DAYS PRIOR TO SUBMISSION OF BID FOR INCLUSION IN ADDENDA IF REQUIRED. IN THE ABSENCE OF NOTIFICATION, IT WILL BE ASSUMED THAT THE CONTRACTOR HAS INCLUDED THE MORE EXPENSIVE ALTERNATIVE IN THE TENDERED PRICE.
 5. ELECTRICAL CONTRACTOR SHALL SEAL ALL WALL AND FLOOR PENETRATIONS TO MAINTAIN RATING INTEGRITY OF BUILDING STRUCTURE.
 6. FIRE ALARM WIRES SHALL BE REMOVED FROM OUTLET BACK TO FACP. MAIN ATTEND IS TO REUSE EXISTING CONDUIT WHENEVER POSSIBLE. CONTRACTOR SHALL ALLOW FOR SUPPLY AND INSTALL NEW CONDUIT AS REQUIRED.

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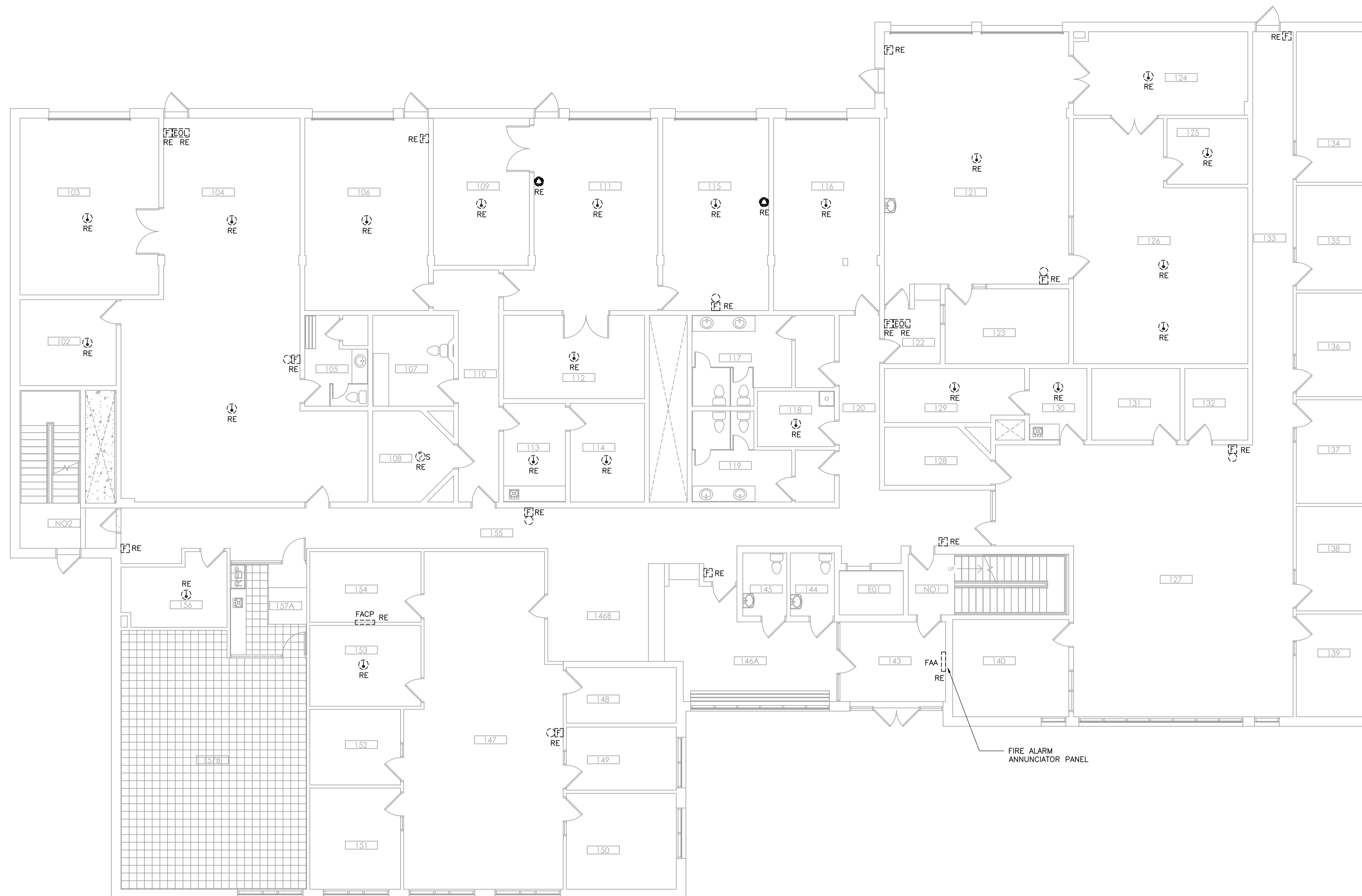
Client/Project
**GOVERNMENT OF CANADA
EXISTING BUILDING RENOVATION
HALON FIRE SUPPRESSION REMOVAL &
FIRE ALARM UPGRADES
RED DEER, ALBERTA**

Title
**MAIN FLOOR PLAN - DEMOLITION FIRE
ALARM SYSTEM**

Project No. 144210170.210 Scale AS SHOWN

Revision 00 Drawing No.

Sheet 3 of 7
E200



1 MAIN FLOOR PLAN - DEMOLITION FIRE ALARM SYSTEM
E200 1:100

FIRE ALARM DEMOLITION NOTES:

1. THESE DEMOLITION DRAWINGS ARE INTENDED TO ASSIST THE ELECTRICAL CONTRACTOR IN ESTABLISHING AREAS REQUIRING DISCONNECTION, REMOVAL OF FIRE ALARM EQUIPMENT, OUTLETS, WIRING, DEVICES, ETC. AND DO NOT INDICATE ALL OUTLETS, EXACT QUANTITIES OR EXTENT OF DEMOLITION. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOBSITE AND THOROUGHLY EXAMINE ALL REQUIRED DEMOLITION WORK AND INCLUDE ALL LABOR AND INCIDENTALS WHICH MAY BE NECESSARY TO PERFORM DEMOLITION.
2. THE ELECTRICAL CONTRACTOR SHALL REMOVE FROM THE PREMISES AND DISPOSE OF ALL DEMOLISHED FIRE ALARM EQUIPMENT. VERIFY LOCAL AGENCY REQUIREMENTS PRIOR TO BIDDING.
3. REFER TO MECHANICAL PLANS FOR FURTHER INDICATION OF DEMOLITION AND RENOVATION. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR TEMPORARY OR PERMANENT REMOVAL, DISCONNECTION, AND/OR RELOCATION OF EQUIPMENT AND ASSOCIATED CONTROLS (EXCLUDING MECHANICAL EQUIPMENT).
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5. ELECTRICAL CONTRACTOR SHALL SEAL ALL WALL AND FLOOR PENETRATIONS TO MAINTAIN RATING INTEGRITY OF BUILDING STRUCTURE.
6. FIRE ALARM WIRES SHALL BE REMOVED FROM OUTLET BACK TO FACP. MAIN ATTEND IS TO REUSE EXISTING CONDUIT WHENEVER POSSIBLE. CONTRACTOR SHALL ALLOW FOR SUPPLY AND INSTALL NEW CONDUIT AS REQUIRED.

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HALON FIRE SUPPRESSION REMOVAL &
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RED DEER, ALBERTA**

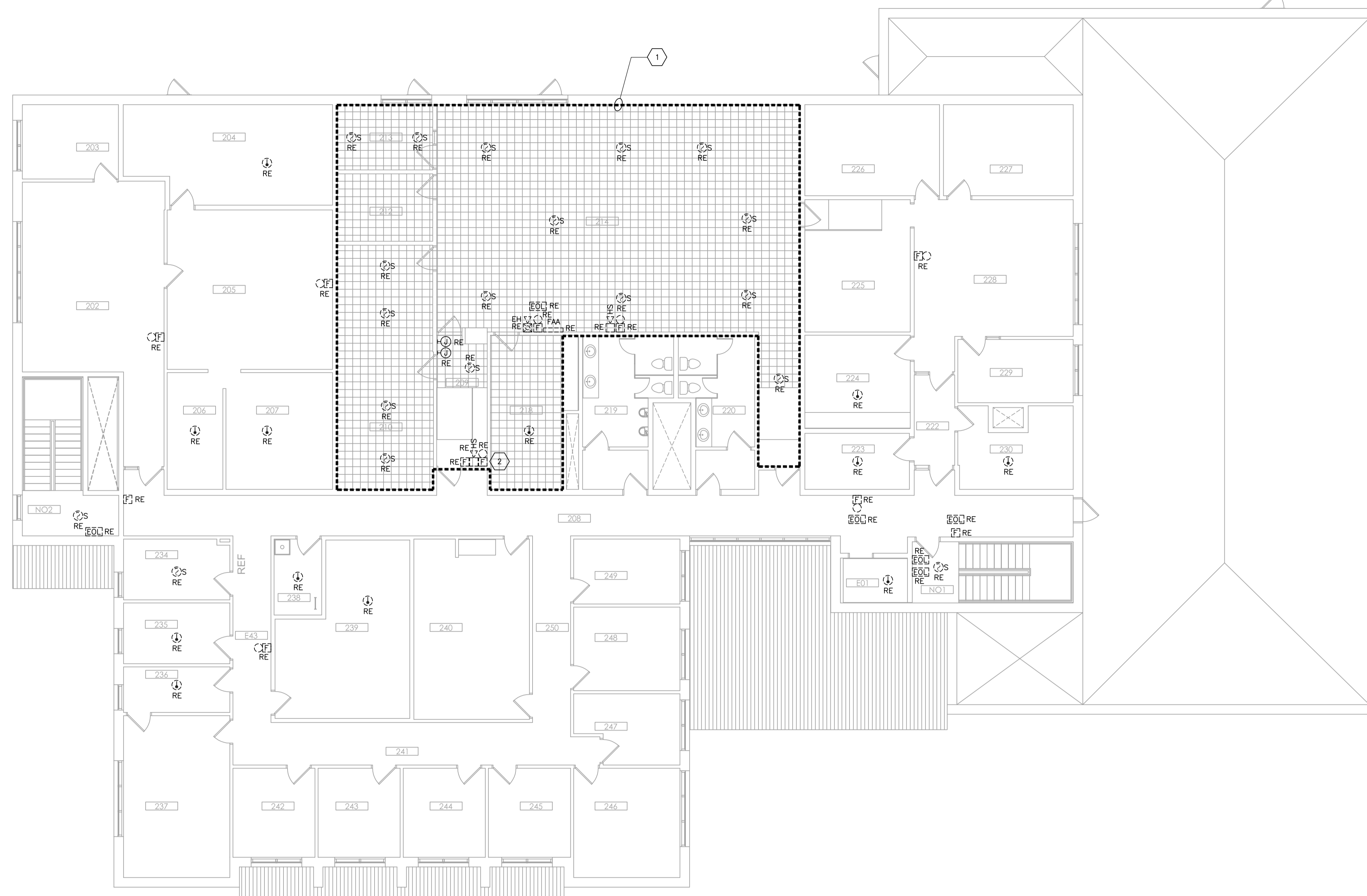
Title
**SECOND FLOOR PLAN - DEMOLITION FIRE
ALARM SYSTEM**

Project No. 144210170.210 Scale AS SHOWN

Revision 00 Drawing No.

Sheet 4 of 7

E300



1 SECOND FLOOR PLAN – DEMOLITION FIRE ALARM SYSTEM
E300 1:100

KEYNOTES:

1 ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING FIRE ALARM DEVICES ASSOCIATED TO CLEAN AGENT SYSTEM IN THIS AREA.

2 ELECTRICAL CONTRACTOR SHALL REMOVE ALL SOLENOID VALVE ON CYLINDER CAPS ASSOCIATED CONDUIT, WIRING AND DEVICES.

FIRE ALARM DEMOLITION NOTES:

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- ELECTRICAL CONTRACTOR SHALL SEAL ALL WALL AND FLOOR PENETRATIONS TO MAINTAIN RATING INTEGRITY OF BUILDING STRUCTURE.
- FIRE ALARM WIRES SHALL BE REMOVED FROM OUTLET BACK TO FACP. MAIN ATTEND IS TO REUSE EXISTING CONDUIT WHENEVER POSSIBLE. CONTRACTOR SHALL ALLOW FOR SUPPLY AND INSTALL NEW CONDUIT AS REQUIRED.

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Title
 BASEMENT FLOOR PLAN - NEW FIRE ALARM SYSTEM

Project No. 144210170.210 Scale AS SHOWN

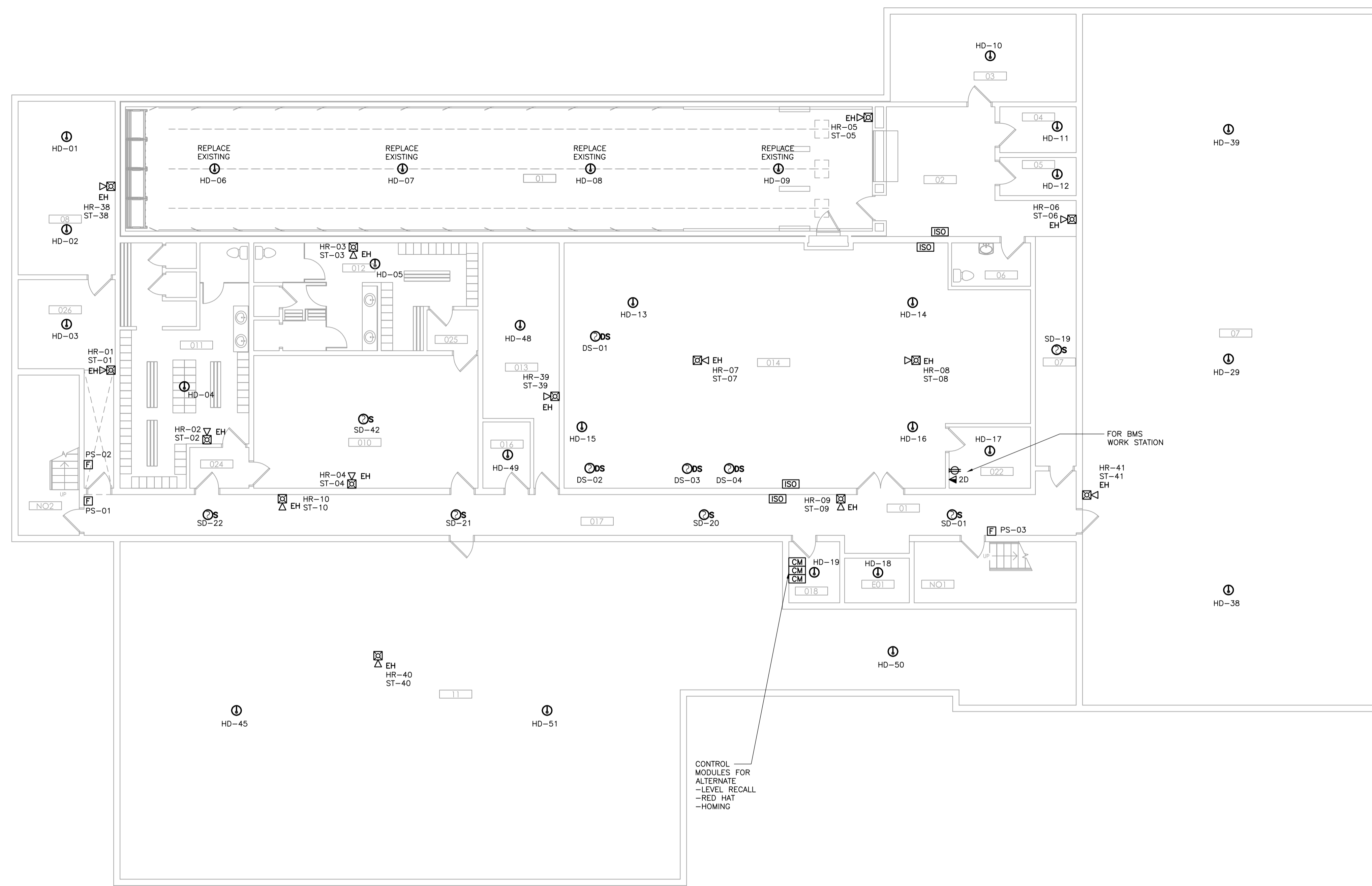
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Sheet 5 of 7

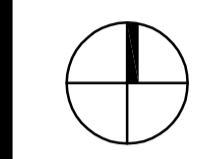
E400

GENERAL NOTE:

- ISOLATION MODULES SHOWN ARE BASE UPON STANTEC BEST ESTIMATE. ACTUAL NUMBER OF ISOLATION MODULES IS DEPENDENT UPON CONDUIT ROUTING BY ELECTRICAL CONTRACTOR. NUMBER OF ISOLATORS ALLOWED PER CARD/LOOP VARIES WITH MANUFACTURER. ELECTRICAL CONTRACTOR TO CO-ORDINATE THIS WITH MANUFACTURER.



1 BASEMENT FLOOR PLAN – NEW FIRE ALARM SYSTEM
 E400 1:100



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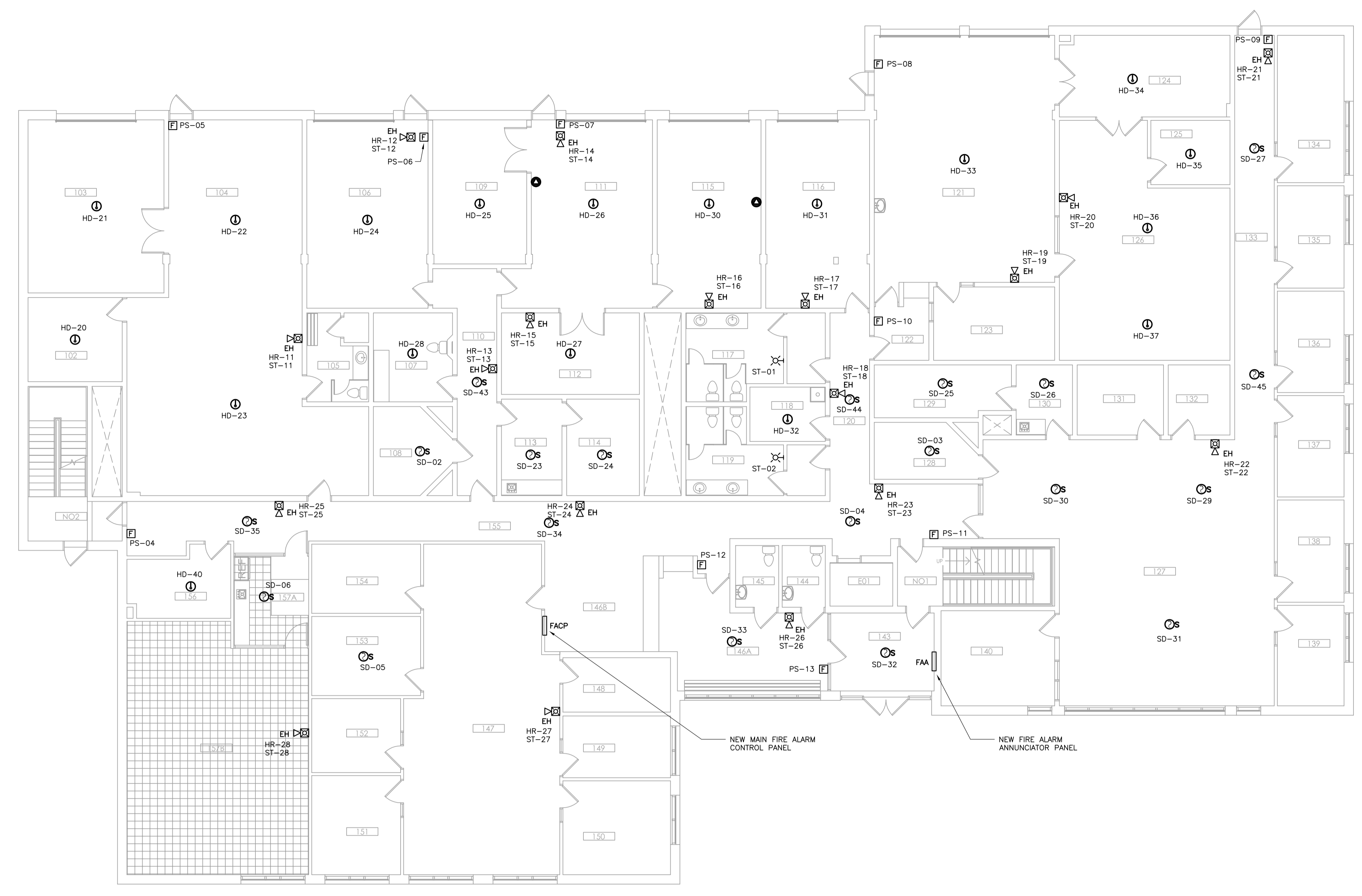
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MAIN FLOOR PLAN - NEW FIRE ALARM SYSTEM

Project No. 144210170.210 Scale AS SHOWN

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Sheet **E500**
 6 of 7

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1 MAIN FLOOR PLAN - NEW FIRE ALARM SYSTEM
 E500 1:100

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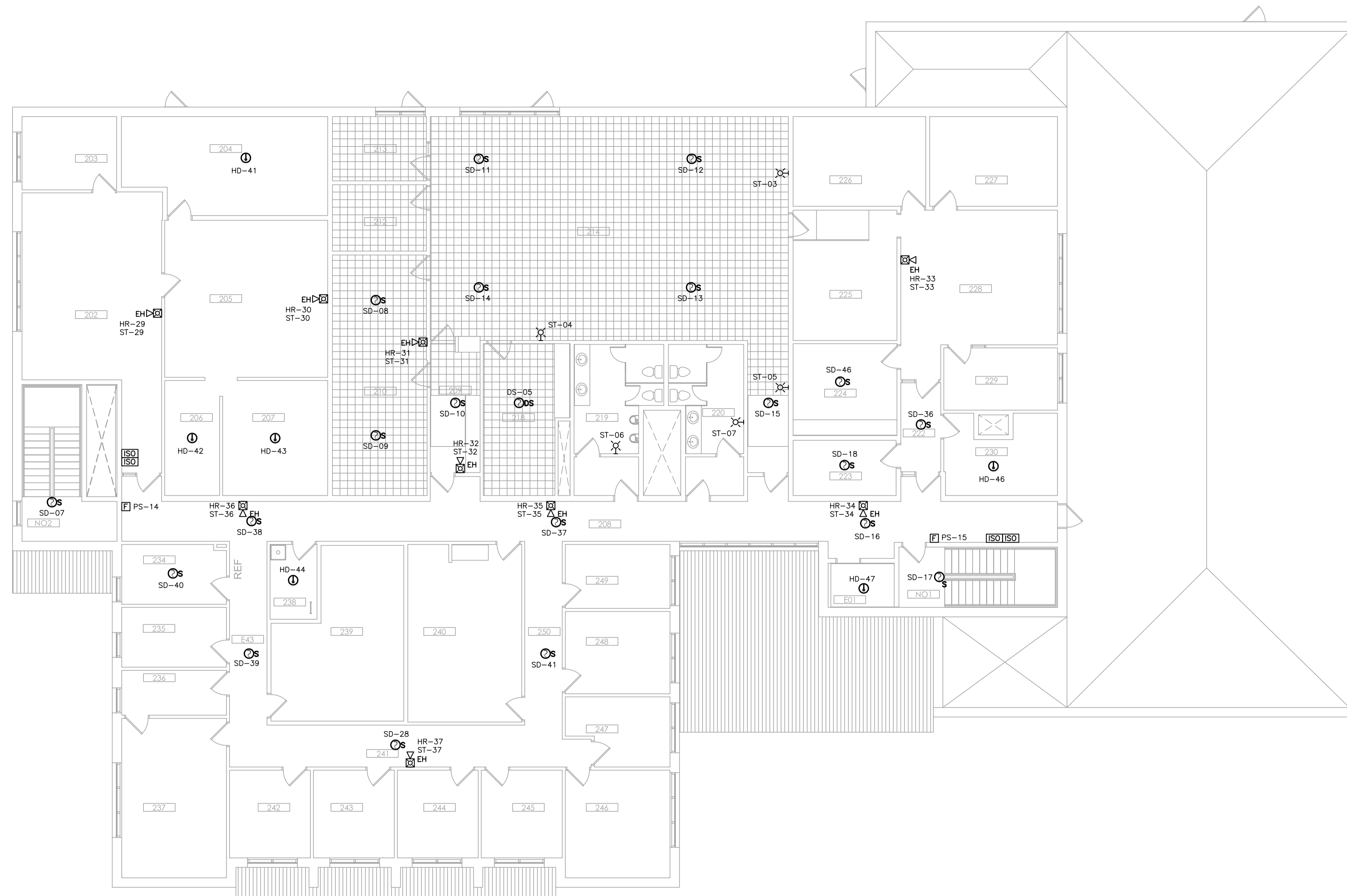
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E600

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1 SECOND FLOOR PLAN - NEW FIRE ALARM SYSTEM
E600 1:100