

ANNEX A

PROJECT : ANNUAL PREVENTIVE MAINTENANCE OF FIRE PROTECTION SYSTEM OF DFA OCA ASEANA
LOCATION : DFA-OFFICE OF CONSULAR AFFAIRS, Business Park, Bradco Avenue, corner Diosdado Macapagal Blvd, Parañaque, 1714 Metro Manila
ABC : PHP 800,000.00

BID OFFER FORM						
ITEM		DESCRIPTION	QUANTIT	UNIT	COST	TOTAL UNIT COST
I	MAINTENANCE SERVICES					
	A	General Requirements				
		a Mobilization/ Demobilization	1	lot		P -
		b Temporary Facilities (Offices, work shops, storage, office supplies and workmen accomodation for contractor)	1	lot		P -
		c Manpower, Engineering and Site Supervision	1	lot		P -
		d Permits, Fees and Clearances	1	lot		P -
		e Taxes, Bonds and Insurances	1	lot		P -
		f Securing of Fire Safety and Inspection Certificate (FSIC)	1	lot		P -
		g Submission of certified Fire Safety and Maintenance Report	1	lot		P -
		h Conduct Emission Test for Diesel Fire Pump	1	lot		P -
		i Personal Protective Equipment (PPE), Safety Signages, Precautionary measures during the testing	1	lot		P -
		j Documentation (Hard and soft copies of maintenance reports with photos of before, during and after the project; technical specifications of components installed, updated operations manual, and signed and sealed schematic diagram)	1	lot		P -
		k Utility Consumption (Electric and Water)	1	lot		P -
		l Testing and comissioning	1	lot		P -
		Sub-Total A				P -
	B	Services				
		Conduct comprehensive maintenance services such as check up, cleaning, greasing, retightening, reconfiguration and testing for the following including necessary consumables:				
		a. Sprinkler System Fire Pump and Jockey Pump Fire Pump and Jockey Pump Controllers Battery Valves and Fire Department Connection Standpipe and Hose Systems Pressure Switch and Transducer Switch Flow meters and gauges Filters Sprinkler heads Cleaning of Fuel Tank	2	per year		P -
		b. Fire Detection and Alarm System (FDAS) Smoke and Heat Detectors Manual Call Points Alarm Bells Fire Alarm Control Panels				
		c. Fire Doors and Emergency Exits				
		Sub-Total B				P -
	C	Components to be replaced				
		1. 12V Battery (Verify actual specs)	2	units		P -
		2. Lube and Oil Filter	1	set		P -
		3. Lube and Fuel Filter	1	ser		P -
		4. Air Filter	1	set		P -
		5. Pressure Gauges	4	sets		P -
		6. Volume Flow Rate Gauge	1	set		P -
		7. Replacement of Fuel	200	Liters		P -
		Sub-Total C				P -
		MAINTENANCE SERVICES COST (A+B+C)				P -
II	Improvements and additional replacement of defective parts/components					
		The allocated budget of Three Hundred Thousand Pesos (Php 300,000.00) is CONSUMABLE where other improvements and replacement of defective parts/components of the Fire Protection System found during maintenance services will be charged. The Contractor shall submit quotations for the defective/unserviceable parts/components to be replaced prior to delivery subject for assessment and approval of OAMSS-EMD based on the service/recommendation reports to be submitted after the first maintenance service. It is understood that the Contractor shall only be paid with the amount of the parts/components delivered and installed.	1	lot	P 300,000.00	P 300,000.00
		Sub-Total II				P 300,000.00
		TOTAL COST (I+II)				
		VAT (12%)				P -
		FINAL CONTRACT COST				P -

A GENERAL NOTES

ALL ELECTRICAL WORKS INDICATED HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS AND ORDINANCES OF THE CITY OF PARAÑAQUE BUILDING OFFICIALS AND THE REQUIREMENTS OF THE LOCAL UTILITY COMPANY, NATIONAL BUILDING CODE AND FIRE CODE OF THE PHILIPPINES.

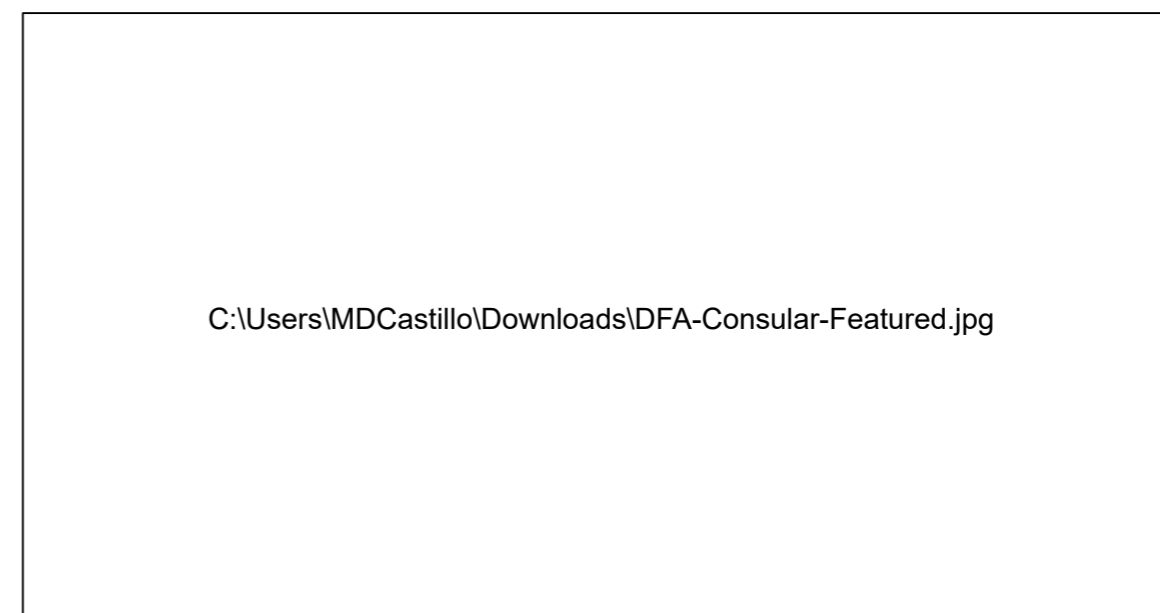
MINIMUM SIZE OF CONDUCTORS WHEN NOT INDICATED IN THE DRAWING SHALL BE 1.5mm² (AWG#16).

REFER TO THE TABLE OF THE PHILIPPINE ELECTRICAL CODE FOR PROPER CONDUIT SIZES CONTAINING CONDUCTORS WHEN SUCH ARE NOT INDICATED IN THE DRAWINGS.

WHERE NECESSARY PULL BOXES SHALL BE PROVIDED EVEN IF NOT INDICATED IN THE DRAWING.

ADEQUATE AND EFFECTIVE GROUNDING SHALL BE PROVIDED.

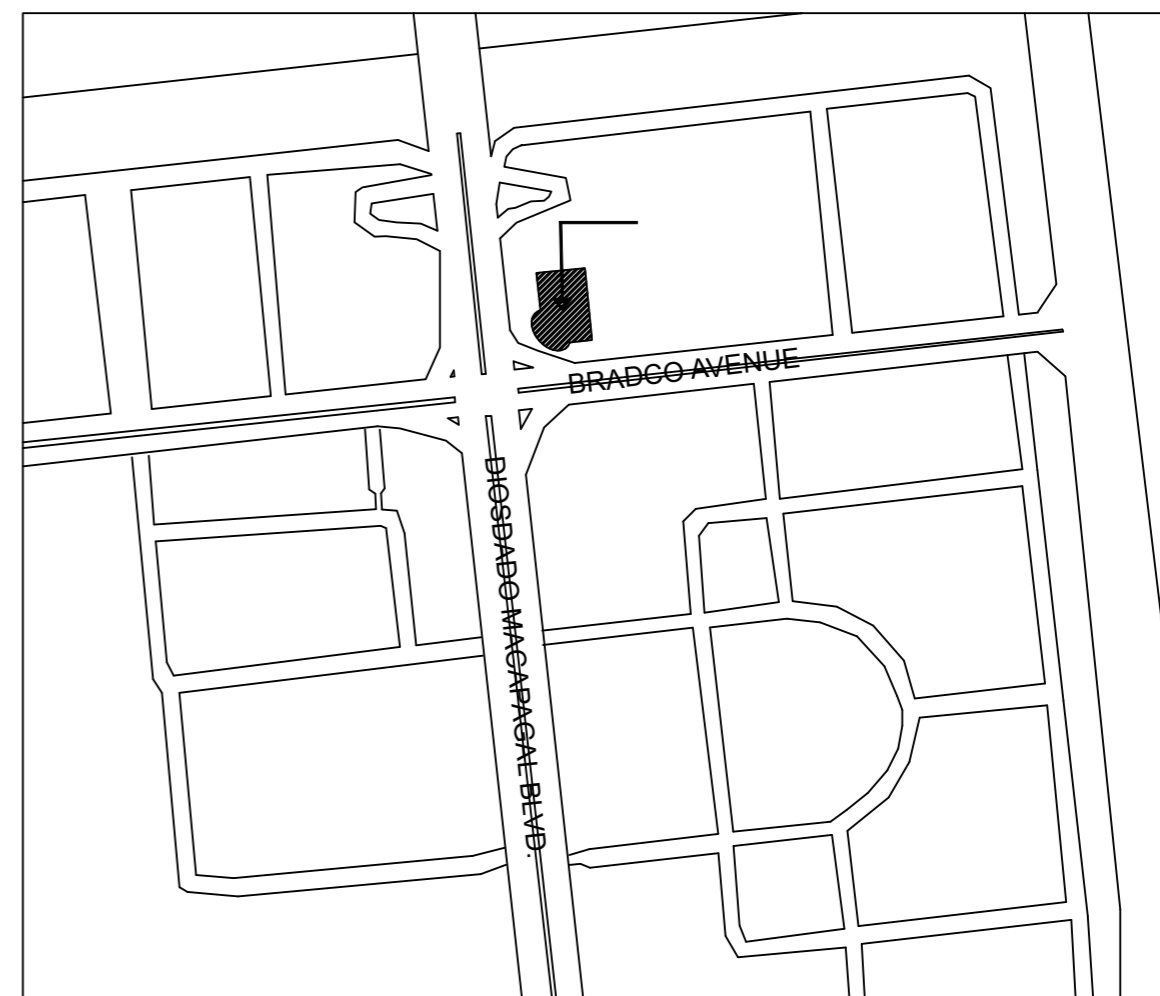
ALL AUXILIARY WORKS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED ELECTRONICS ENGINEER IN-CHARGE.



B LEGENDS & SYMBOLS

NOT TO SCALE

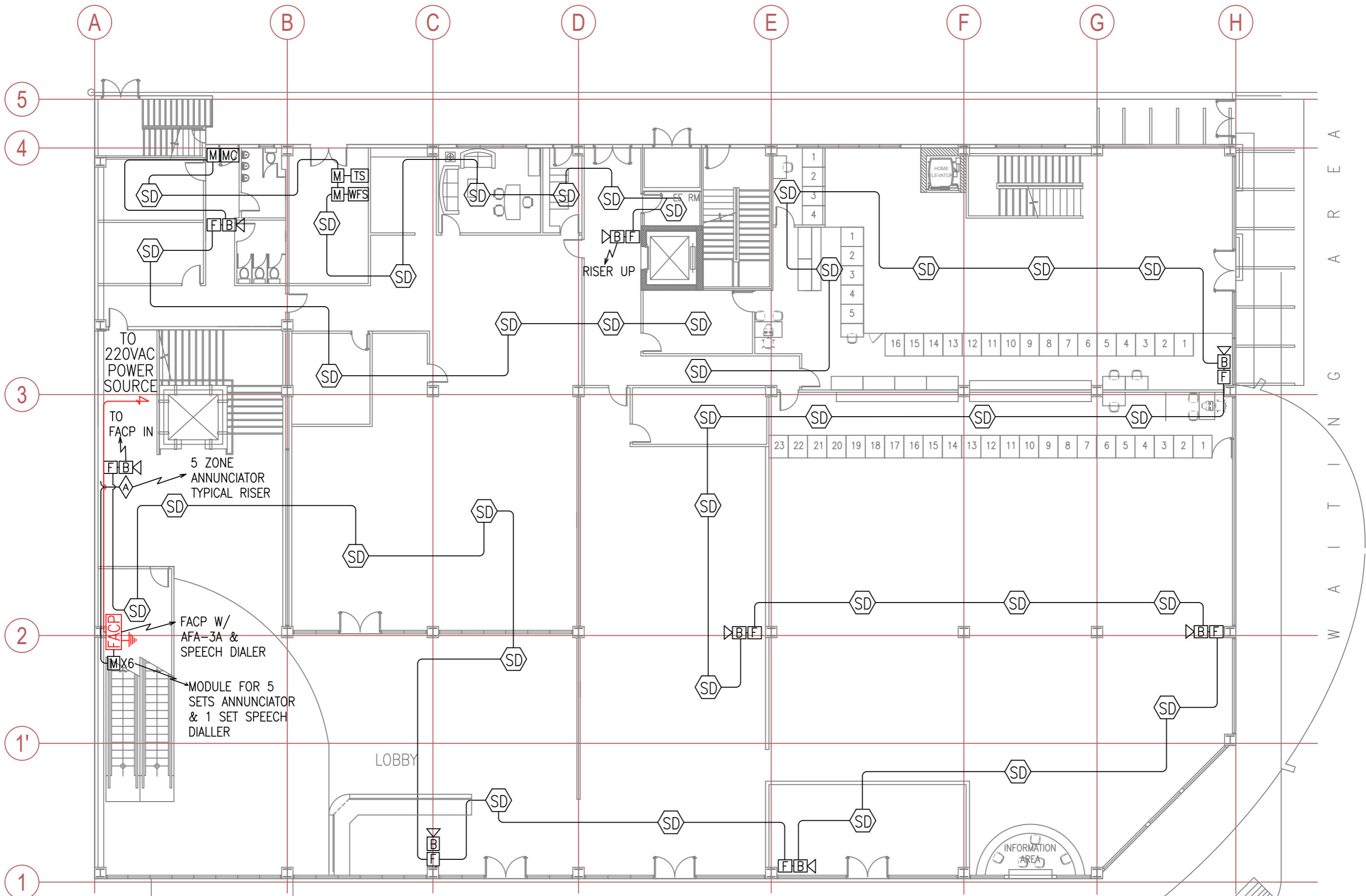
	COOPER CF-1200VDS FIRE ALARM CONTROL PANEL		COOPER ULMCOM-S / ULMCIM-C CONTROL MODULE / SINGLE INPUT MODULE
	COOPER CAP-320 + CAB-300 ADDRESSABLE OPTICAL SMOKE DETECTOR W/ MOUNTING BASE		FIRE ALARM ANNUNCIATOR LED-TYPE, STAINLESS
	COOPER CAH-330 + CAB-300 ADDRESSABLE MULTI-MODE HEAT DETECTOR W/ MOUNTING BASE		TAMPER SWITCH
	COOPER CBG-370S + MBGBEZ ADDRESSABLE FLUSH MOUNTED CALLPOINT W/ MOUNTING BEZEL		WATER FLOW SWITCH
	COOPER CASB-383 LOOP-POWERED ADDRESSABLE SOUNDER W/ STROBE LIGHT		MAGNETIC DOOR CONTACT



C VICINITY MAP

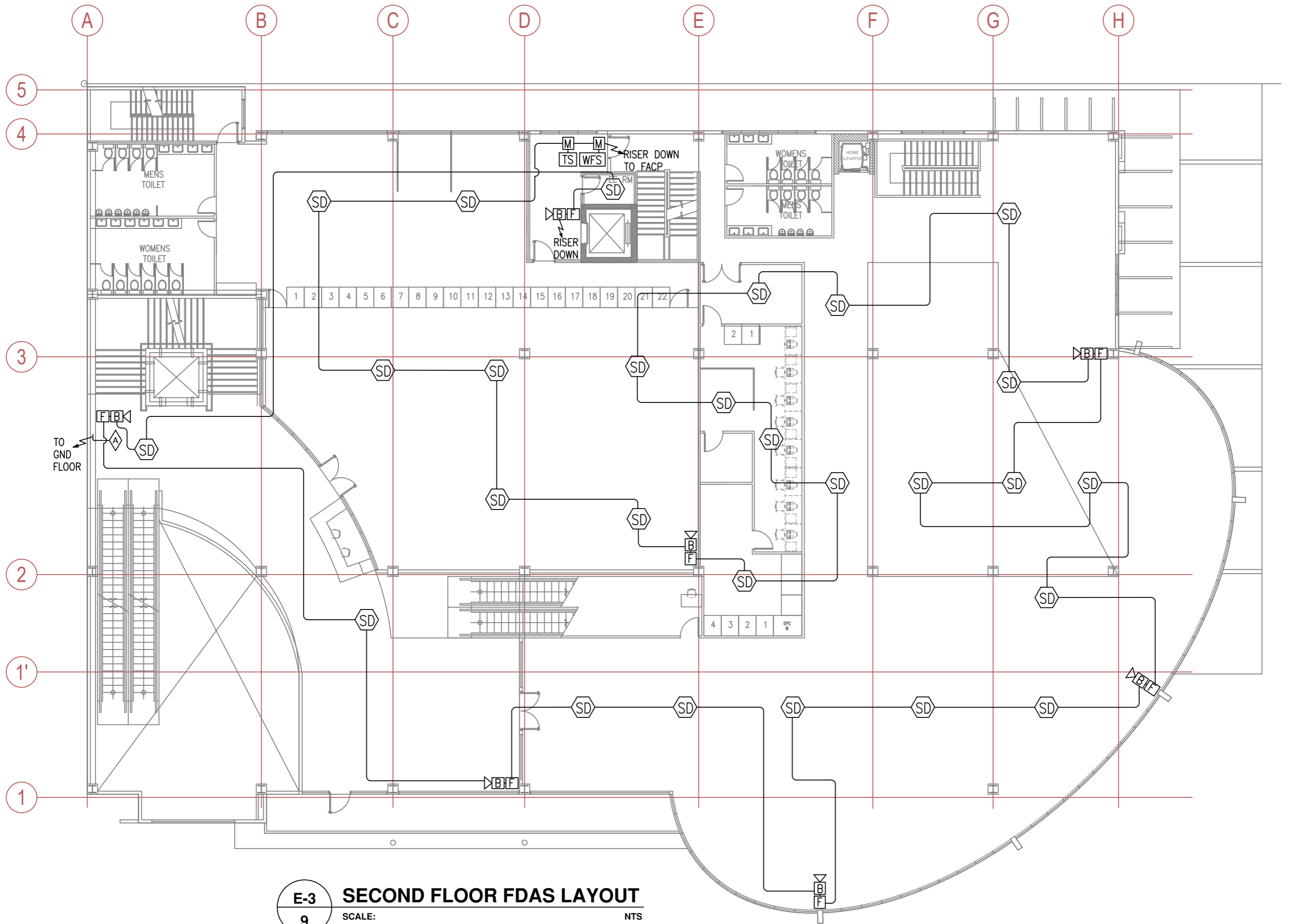
NOT TO SCALE

CONTRACTOR: AVESCO ELECTRICAL • INDUSTRIAL • ELECTRONICS • COMMUNICATIONS 810 Aurora Boulevard Corner Yale Street, Cubao, Quezon City P.O. Box 3531 Manila Tel: (063) 02 912-8881 Tel./Fax : (063) 02 438-1701	ENGINEER: JOEYDEL P. SARMIENTO, PECE REG. NO. 0001438 TIN. NO. 429-707-369-000 PTR. NO. 6761164 ISSUE: JAN. 5, 2023 PTR ISSUED AT: SAN CARLOS CITY, PANGASINAN	OWNER: REPUBLIC OF THE PHILIPPINES OFFICE OF CONSULAR AFFAIRS BRADCO AVENUE CORNER MACAPAGAL BOULEVARD, ASEANA BUSINESS PARK, PARAÑAQUE CITY	PROJECT TITLE: REHABILITATION OF OCA ASEANA'S FIRE DETECTION & ALARM SYSTEM	DESIGN: DATE: DRAWN BY: M. CASTILLO 1/26/23 CHECKED BY: R. MULA 1/26/23 APPROVED BY:	REVIEWED BY: OAMSS - EMD NAME & SIGNATURE DATE:	APPROVED BY: DEPARTMENT OF FOREIGN AFFAIRS KAGAWARAN NG UHAYANG PANLABAS BUREAU OF FIRE PROTECTION NAME OF OWNER / AUTHORIZED SIGNATORY DATE:	SHEET CONTENT: A. GENERAL NOTES B. LEGENDS & SYMBOLS C. VICINITY MAP ISSUANCE: AS-BUILT DRAWING	SHEET NO. E-1 9
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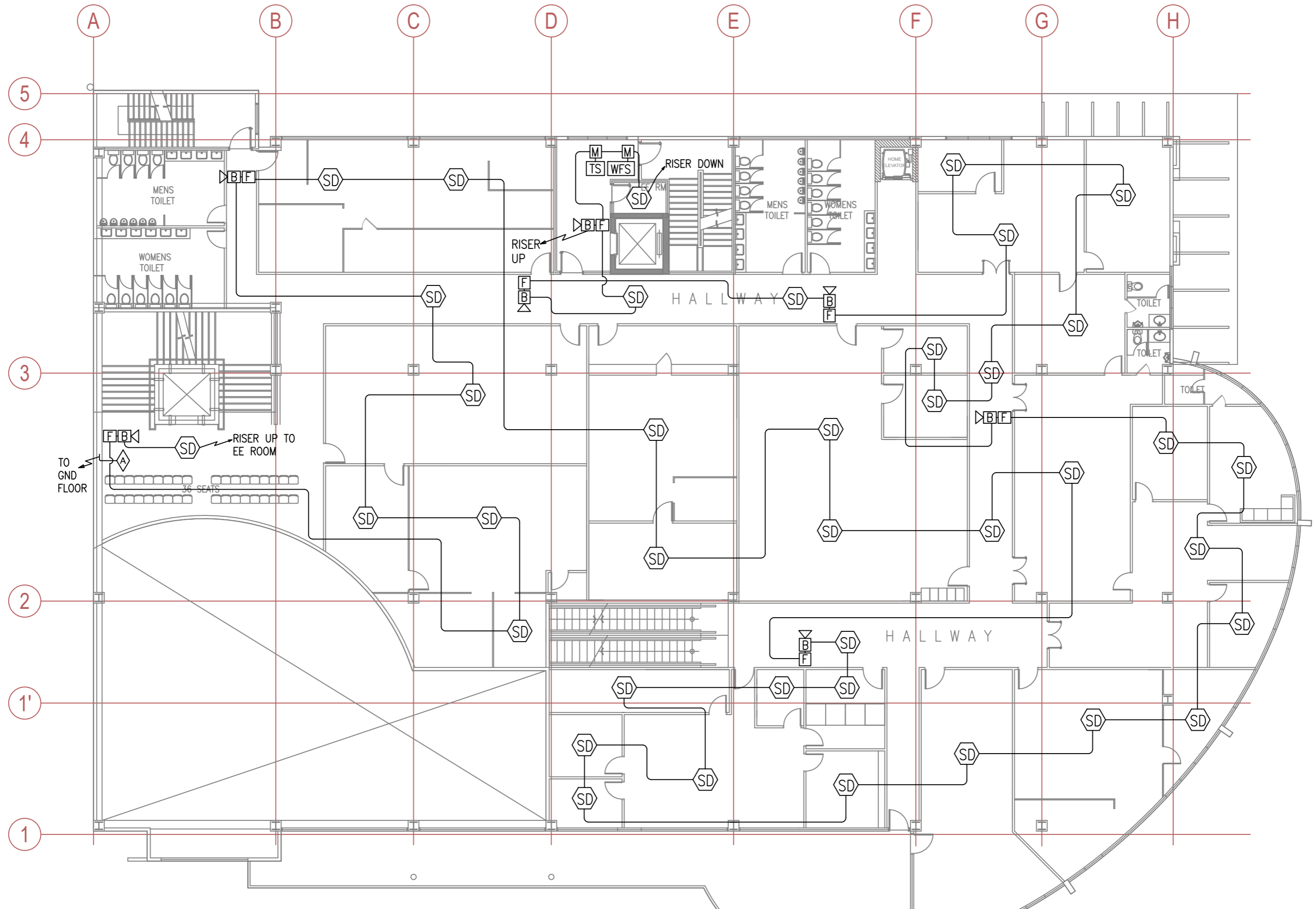
E-2 GROUND FLOOR FDAS LAYOUT
 SCALE: 9 NTS

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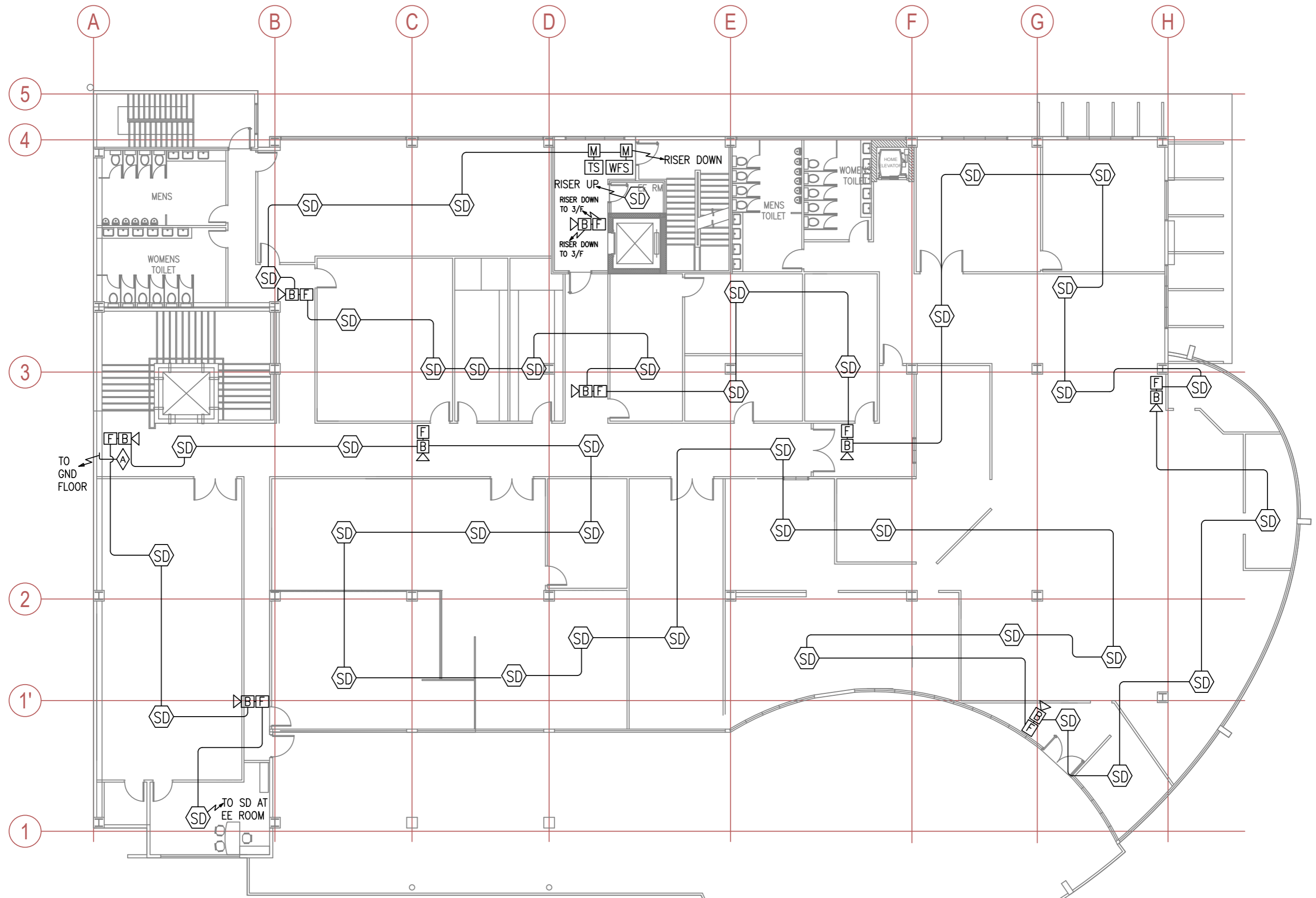
E-3 SECOND FLOOR FDAS LAYOUT
 9 SCALE: NTS

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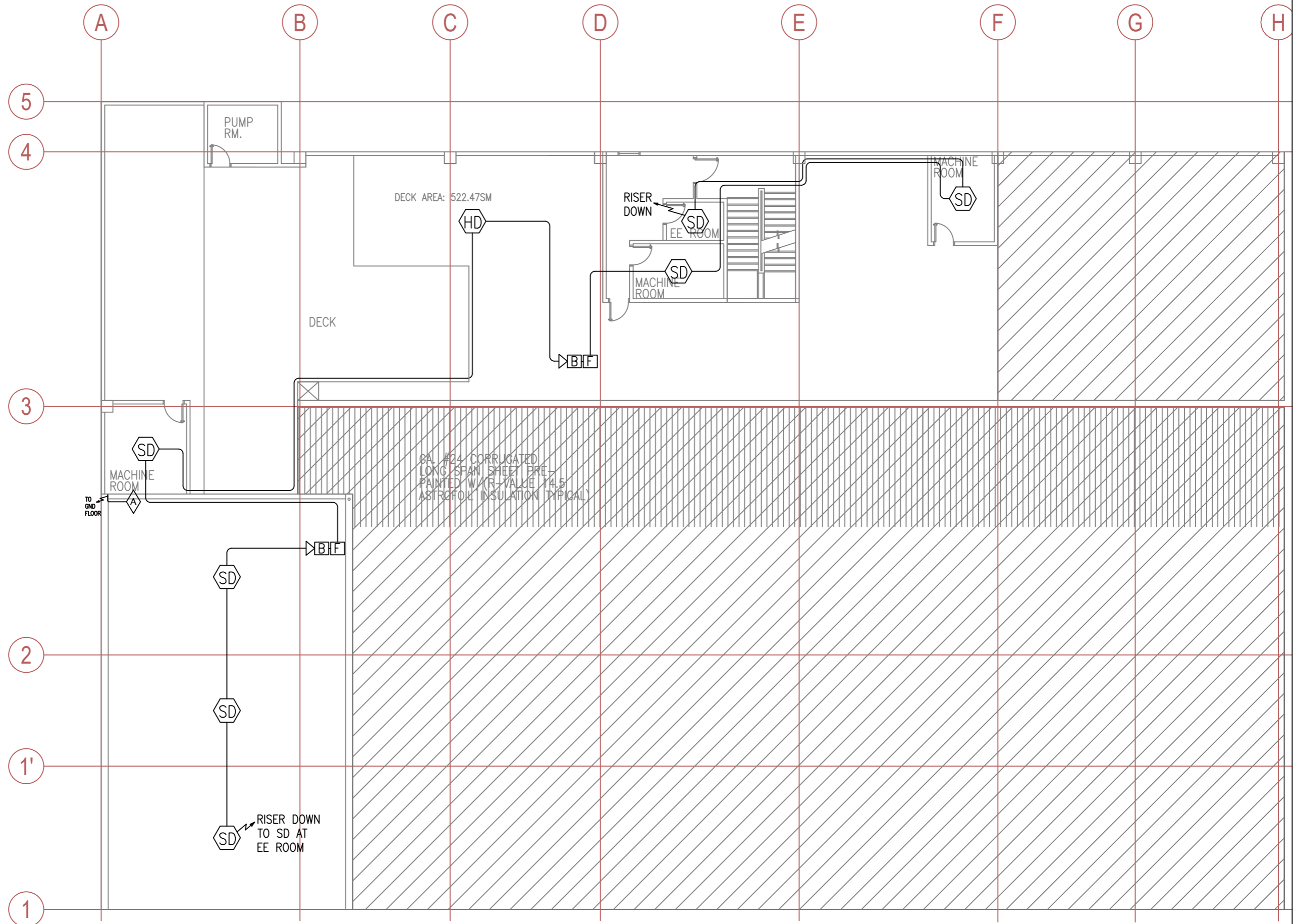
E-4 **THIRD FLOOR FDAS LAYOUT**
 9 SCALE: _____ NTS

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E-5 **FOURTH FLOOR FDAS LAYOUT**
 9 SCALE: NTS

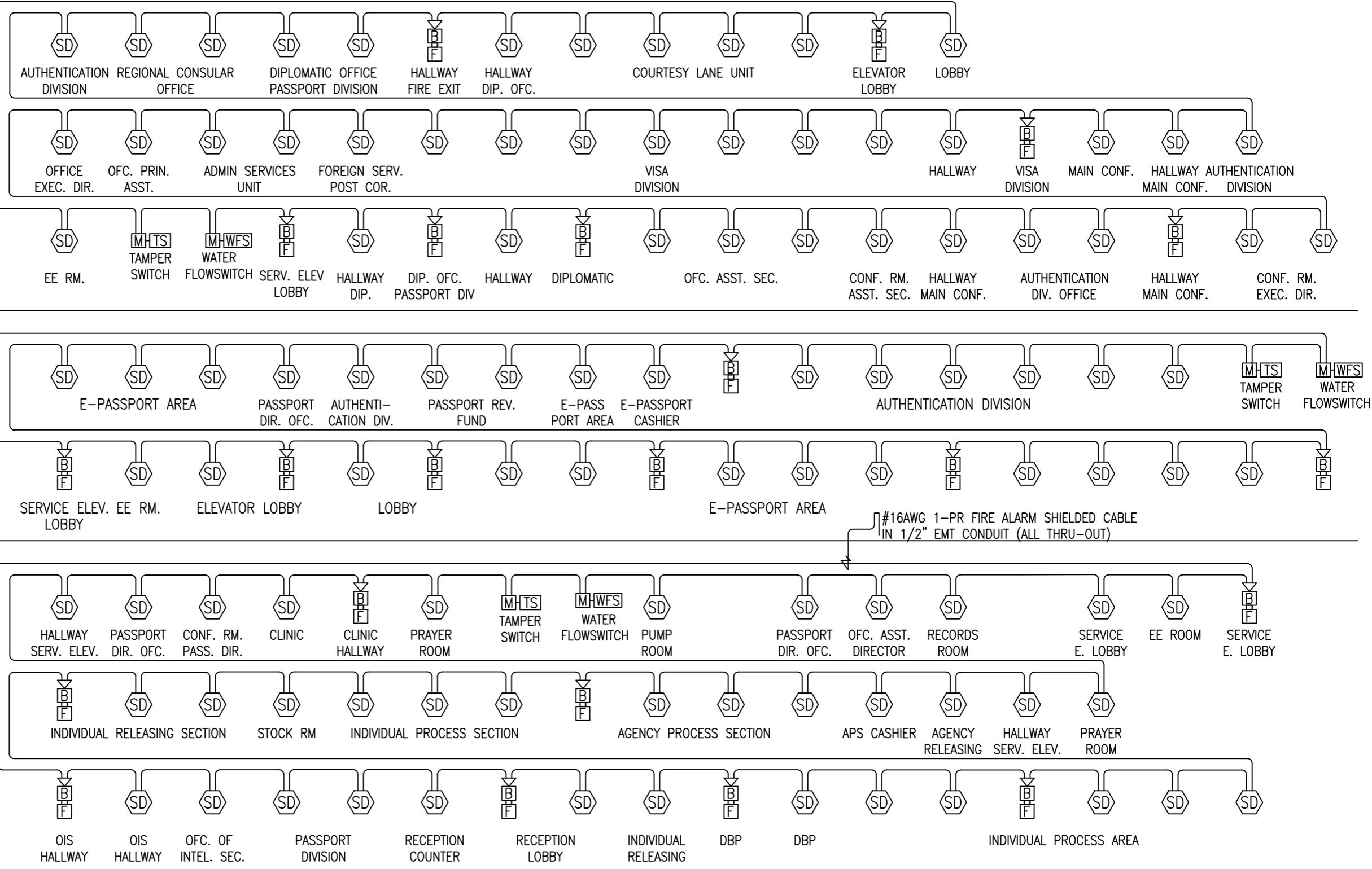
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E-6 ROOF DECK FDAS LAYOUT
 SCALE: NTS

CONTRACTOR:	ENGINEER:	OWNER:	PROJECT TITLE:	DESIGN:	DATE:	REVIEWED BY:	APPROVED BY:	SHEET CONTENT:	SHEET NO.
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	DATE:								
	DATE:								

TO 4TH FLR AT NEXT SHEET



3RD FLR.

2ND FLR.

GROUND FLR.

2 #22AWG 4-PR INTERCOM CABLE ALL THRU-OUT

LOOP 2
LOOP 1

TO 220VAC POWER SOURCE AT EE ROOM











E-7
9

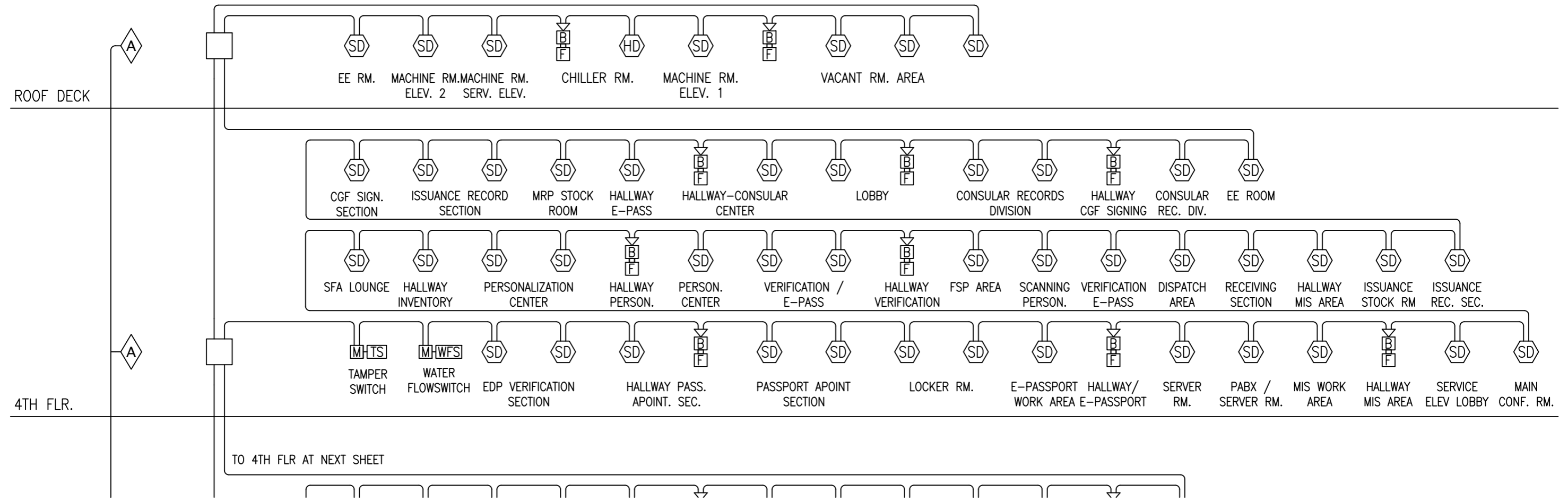
**GROUND FLOOR TO 3RD FLOOR
FDAS SINGLE LINE RISER DIAGRAM**

SCALE: NTS

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LEGENDS:

	COOPER (CF-1200VDS) 2-LOOPS ANALOGUE FIRE ALARM CONTROL PANEL
	COOPER (CAP-320) ADDRESSABLE OPTICAL SMOKE DETECTOR W/ (CAB-300) MOUNTING BASE
	COOPER (CAH-330) ADDRESSABLE MULTI-MODE HEAT DETECTOR W/ (CAB-300) MOUNTING BASE
	COOPER (CBG-370) ADDRESSABLE FLUSH MOUNTED CALLPOINT W/ BEZEL & COVER
	COOPER (CASB-383) LOOP-POWERED ADDRESSABLE SOUNDER W/ BEACON
	COOPER (MCIM-C / MCOM-S) INPUT / CONTROL MODULE
	TAMPER SWITCH
	WATER FLOW SWITCH
	MAGNETIC DOOR CONTACT
	FIRE ALARM ANNUNCIATOR, LED-TYPE



E-8
4TH FLOOR TO ROOF DECK
FDAS SINGLE LINE RISER DIAGRAM
 SCALE: **9** NTS

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FDAS PANEL DETAILS

DEVICES	LOOP 1		LOOP 2		
	GROUND FLR.	2ND FLR.	3RD FLR.	4TH FLR.	5TH FLR.
Smoke Detector	37	27	39	39	4
Heat Detector					1
Sounder / Beacon	8	7	8	8	2
Manual Callpoint	8	7	8	8	2
Monitor Module	3	1	1	1	
Control Module	6				
Annunciator Display	1	1	1	1	1

FIRE ALARM BACK-UP BATTERY CALCULATION

Supplied / Fitted Battery : 7Ah
 Panel Current Quiescent : 0.08A
 Loops Current Quiescent : 0.063A
 Total Current Quiescent : 0.143A
 Panel Current Alarm : 0.3A
 Loops Current Alarm : 0.476A
 Total Current Alarm : 0.776A

Battery Requirement Formula :

$$B = C(IQTQ) + 1.75(IATA)$$

Where :

- B = Battery Capacity Required (Ah)
- IQ = Current Quiescent (Amps)
- TQ = Standby time in hours for the system after mains failure (24 Hours)
- IA = Current Alarm (Amps)
- TA = Maximum time in hours required for the system in full alarm condition (30 Min)
- C = Battery Capacity (1.25)

$$\begin{aligned}
 B &= 1.25 (0.143A \times 24 \text{ hours}) + 1.75 (0.776A \times 0.5 \text{ hour}) \\
 &= 1.25 (3.432Ah) + 1.75 (0.388Ah) \\
 &= 4.29Ah + 0.679Ah
 \end{aligned}$$

Battery Required = 4.969Ah

E-9.A
9

FDAS PANEL DETAILS

SCALE: NTS

E-9.B
9

FDAS BACK-UP BATTERY CALCULATION

SCALE: NTS

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