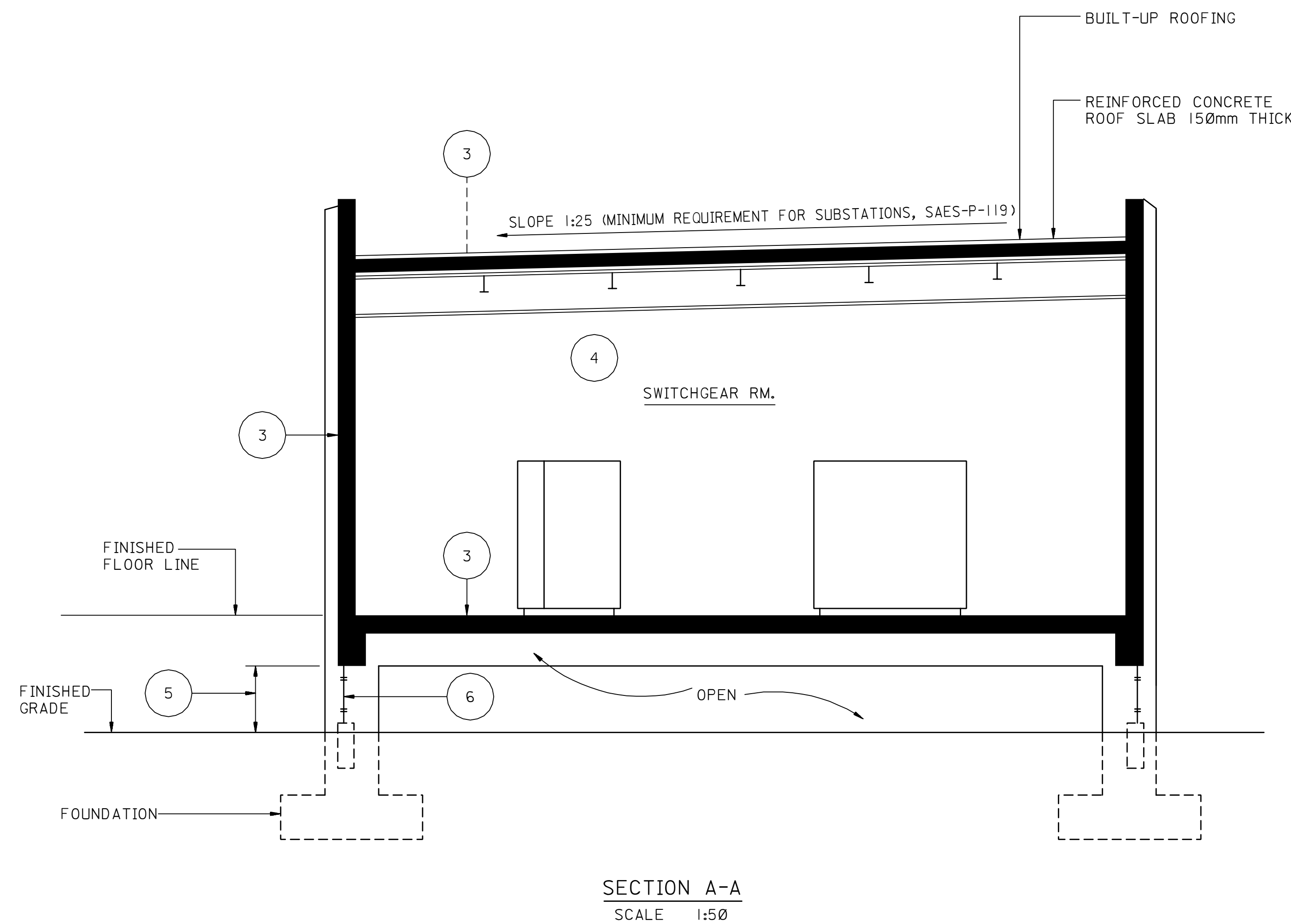
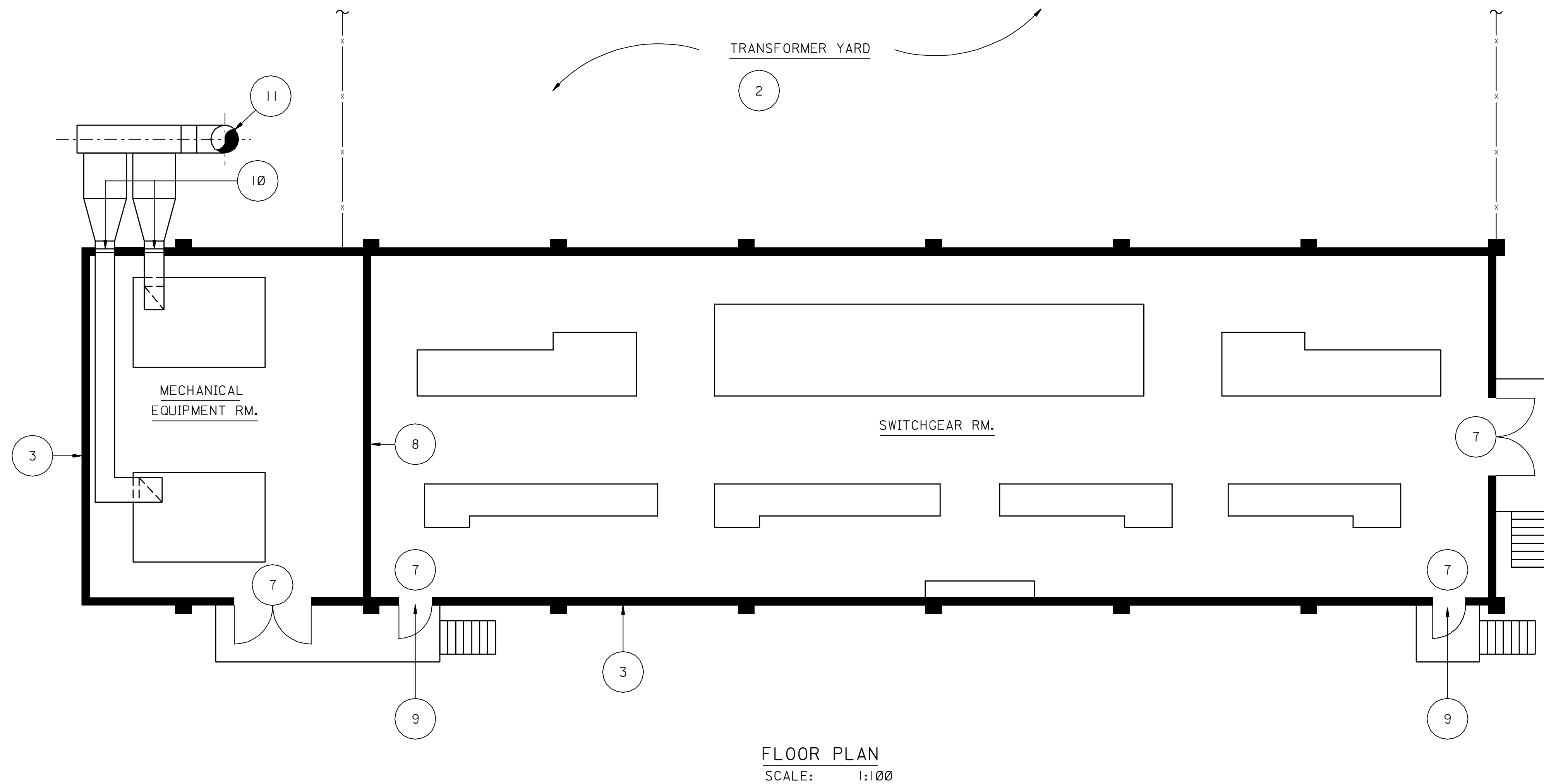


9900	R	AA-036758	001	01
PLANT NO.	INDEX	DRAWING NUMBER	SHT. NO.	REV. NO.



- | GENERAL-DESIGN CRITERIA REQUIREMENTS | |
|--------------------------------------|---|
| SSD/7
(SAES-0-107) | SECURITY AND EMERGENCY
EXIT DOORS |
| SSD/8
(SAES-0-108) | MINIMUM STANDARDS FOR LOCKS
USED ON SECURITY AND
EMERGENCY EXIT DOORS |
| SSD/9
(SAES-0-109) | MINIMUM STANDARDS FOR
BUILDINGS HOUSING SENSITIVE
OR VITAL EQUIPMENTS |
| SSD/10
(SAES-0-110) | PROTECTION OF VITAL EQUIPMENT |
| SSD/20
(SAES-0-120) | EXPANDED STEEL MESH |
| SAES-R-20 | BUILDING FOR ESSENTIAL OIL
OPERATIONS FACILITIES |
| SAES-P-119.01 | SUBSTATIONS GENERAL |
| SAES-P-117 | ELECTRICAL AREA CLASSIFICATION |
| SAES-B-10 | FIRE AND SAFETY REQUIREMENTS
STANDARD ONSHORE GOSP DESIGN |
| SAES-B-55 | PLANT LAYOUT |
| SAES-B-100
THRU 199 | ARAMCO ELECTRIC POWER MANUAL |

SECURITY REQUIREMENTS

2. THE BUILDING SHALL BE LOCATED A MINIMUM DISTANCE OF 60 METERS FROM THE PERIMETER SECURITY FENCE AND SHALL BE DESIGNED IN COMPLIANCE WITH THE REQUIREMENTS OF SAES-R-20 AS AMENDED BY SSD/9 (SAES-0-109) AND SAES-P-119.001.
3. PER REQUIREMENTS OF SSD/9, THE EXTERIOR WALLS SHALL BE A MINIMUM OF 250mm THICK AND CONSTRUCTED OF EITHER CAST-IN PLACE CONCRETE OR SOLID FILLED REINFORCED CONCRETE BLOCK. COMPOSITE WALLS ARE ACCEPTABLE PROVIDED THE TOTAL MINIMUM THICKNESS OF THE CONCRETE ELEMENTS EQUALS 250mm. WINDOWS ARE NOT PERMITTED THE FLOOR SLAB AND ROOF DECK SHALL BE 150mm MINIMUM THICK REINFORCED CONCRETE.
4. THE STRUCTURAL DESIGN LOADS SHALL BE IN ACCORDANCE WITH THE ARAMCO BUILDING CODE SAES-M SERIES, SAES-R-20 AND SAES-P-119.01.
5. BUILDINGS LOCATED IN A HAZARDOUS AREA SHALL BE PRESSURIZED AND/OR RAISED ABOVE GRADE PER SAES-P-117, SAES-R-20 AND SAES-P-119.01.
6. BUILDINGS WHICH ARE RAISED ABOVE GRADE PER NOTE-5, SHALL HAVE THE OPEN SPACE BETWEEN THE RAISED FLOOR AND GROUND LEVEL ENCLOSED WITH EXPANDED STEEL MESH PER SSD/20-10 PREVENT UNAUTHORIZED ENTRY.
7. ALL EXTERIOR DOORS SHALL BE OF THE SECURITY TYPE PER SSD/7 AND SAES-0-107. ALL DOORS SHALL INCORPORATE THE APPLICABLE SECURITY HARDWARE REQUIREMENTS OF SSD/8.
8. PER SAES-R-20, FIRE WALLS SHALL BE PROVIDED TO SEPARATE DIFFERENT USE AREAS. E. G. FIRE WALLS SHALL BE PROVIDED TO SEPARATE THE SWITCHGEAR AREA, HVAC AREA ETC. ALL FIRE WALLS SHALL EXTEND UP TO THE UNDERSIDE OF THE ROOF DECK AND SHALL HAVE A MINIMUM OF 2 HOUR FIRE RATING. DOORS SHALL BE 1 1/2 HOUR FIRE RATED ASSEMBLIES. ALL OTHER PENETRATIONS THROUGH THE FIRE WALLS SHALL BE PROTECTED AND SHALL BE RATED THE SAME FIRE RESISTANCE AS THE WALL.
9. NUMBER AND LOCATION OF EMERGENCY EXTERIOR EXITS SHALL BE PROVIDED IN COMPLIANCE WITH SAES-P-119.01, THE APPLICABLE PORTIONS OF SAES-R-20 AND ARAMCO BUILDING CODE REQUIREMENTS EXITS SHALL BE KEPT TO A MINIMUM PER SSD/9, SAES-0-109.
10. ALL PENETRATIONS AND OPENINGS EXCLUDING DOOR OPENINGS, CABLE OR PIPE ENTRIES THROUGH THE EXTERIOR SECURITY WALLS SHALL BE PROTECTED WITH AN EXPANDED STEEL MESH BARRIER PER SSD/20.
11. AIRCONDITIONING SHALL BE PROVIDED IN ACCORDANCE WITH THE ARAMCO ENGINEERING STANDARDS GOVERNING THE SUBJECT BUILDING.

NOTES:

1. THE PURPOSE OF THIS STANDARD DRAWING IS TO ILLUSTRATE THE MINIMUM SECURITY REQUIREMENTS FOR AN SSD (SAFE AND SECURITY DIRECTIVE) NO. 9 BUILDING, AN ELECTRICAL SUBSTATION BUILDING (SERVING A VITAL FACILITY) HAS BEEN SELECTED TO ILLUSTRATE THESE REQUIREMENTS.
NOTE : THESE SECURITY REQUIREMENTS ARE ALSO APPLICABLE TO OTHER BUILDING HOUSING SENSITIVE OR VITAL EQUIPMENT, EG. STANDBY GENERATOR BUILDINGS, COMMUNICATION BUILDINGS ETC.
2. IN CASE OF CONFLICT BETWEEN THIS STANDARD DRAWING AND THE ARAMCO SECURITY STANDARDS (AES-0-SERIES) THE ARAMCO SECURITY STANDARDS SHALL GOVERN.

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