



REPUBLIC OF THE PHILIPPINES
PHILIPPINE STATISTICS AUTHORITY

CONSTRUCTION OF FIT-OUT AND LANDSCAPE WORKS FOR THE TWENTY-THREE (23) STOREY PHILIPPINE STATISTICS AUTHORITY (PSA) OFFICE BUILDING WITH COVERED ROOF DECK

PSA COMPLEX, EAST AVENUE, DILIMAN, QUEZON CITY

DETAILED ARCHITECTURAL AND ENGINEERING DESIGN (DAED)

FIRE PROTECTION

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 5184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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ROOF DECK AFSS LAYOUT

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EXISTING SCHEMATIC RISER DIAGRAM OF AUTO FIRE SUPPRESSION SYSTEM

GENERAL NOTES:

1. INSTALLATION OF FIRE SPRINKLER SYSTEM SHALL CONFORM TO NFPA-13 REQUIREMENTS.

2. COORDINATE WITH OTHER WORKS, INCLUDING PLUMBING PIPING, AS NECESSARY TO INTERFACE COMPONENTS OF FIRE PROTECTION PIPING PROPERLY WITH OTHER WORKS.

3. SPRINKLER IN THE INTERMEDIATE TEMPERATURE ZONE SHALL BE OF THE INTERMEDIATE CLASSIFICATION.

4. FLOOR DRAINS FOR OIL SPILLS SHALL BE PROVIDED IN FLOOR OF TRANSFORMER VAULT, BY PLUMBING CONTRACTOR.

5. SPRINKLERS SHALL NOT SPACED LESS THAN SIX (6) FEET (1.8 M.) ON CENTER.

6. PROVIDE 10 LBS. HALOTRON PORTABLE FIRE EXTINGUISHERS TO ALL ELECTRICAL ROOMS AND TO OTHER ROOMS OF THE SAME USAGE.

7. ALL PIPES SHALL BE PROVIDED WITH PIPE SLEEVE THROUGH BEAMS, WALLS & FLOORS.

8. PROVIDE AT LEAST ONE (1) HANGER BETWEEN EACH TWO (2) BRANCHLINES.

9. LATERAL AND LONGITUDINAL SWAY BRACES SPACED AT MAXIMUM INTERVALS OF 12.2 M. & 24 M. RESPECTIVELY, ON CENTER SHALL BE PROVIDED FOR ALL PIPE LINES WITH DIAMETER OF 65 MM AND LARGER.

10. PROVIDE FLANGE CONNECTION AT MAXIMUM INTERVAL OF 12 METERS.

11. ALL PORTABLE FIRE EXTINGUISHER (PFE) INSIDE FIRE HOSE CABINETS (FHC-1) SHALL BE "ABC" TYPE DRY CHEM. UNLESS OTHERWISE SPECIFIED.

12. PROVIDE 50 LBS WHEELED TYPE CO2 PORTABLE FIRE EXTINGUISHERS IN TRANSFORMER VAULTS.

13. RISER SUPPORTS SHALL BE PROVIDED AT LOWEST LEVEL AT EACH ALTERNATE LEVEL, ABOVE AND BELOW OFFSET AND AT THE TOP OF RISER.

14. FLEXIBLE COUPLING SHALL BE INSTALLED WITHIN 0.3 M ABOVE AND BELOW THE FLOORS, AND WITHIN 0.6 M OF THE TOP AND BOTTOM OF ALL RISERS.

15. WHERE SPRINKLER PIPING PASSES THROUGH SEISMIC SEPARATION ASSEMBLIES, FLEXIBLE FITTINGS SHALL BE INSTALLED.

16. PROVIDE AUXILLARY DRAIN FOR TRAPPED SECTION AS REQUIRED BY NFPA-13.

17. HOODS OR SHIELDS SHALL BE INSTALLED TO PROTECT ELECTRICAL EQUIPMENTS AND PANELS FROM THE SPRINKLER DISCHARGE, MATERIAL SHALL BE NON-COMBUSTIBLE.

18. THE DISTANCE BETWEEN THE HANGER AND CENTER OF LINE OF AN UPRIGHT SPRINKLER HEAD SHALL NOT BE LESS THAN 76 MM.

19. PROVIDE NECESSARY EARTHQUAKE PROTECTION AS REQUIRED UNDER NFPA-13 AND UNIFORM BUILDING CODE.

20. PROVIDE SUITABLE PORTABLE FIRE EXTINGUISHER WHEREVER REQUIRED BY THE BUREAU OF FIRE DEPARTMENT FOR ADDED PROTECTING IN THE BUILDING.

POSITION OF DEFLECTOR WHEN LOCATED ABOVE BOTTOM OF BEAM

DISTANCE FROM SPRINKLER TO SIDE OF BEAM (A)	MAXIMUM ALLOWABLE DISTANCE DEFLECTOR ABOVE BOTTOM OF BEAM (B)
0.00 LESS THAN 0.3M	0.00M
0.30 TO LESS THAN 0.6M	0.02M
0.60 TO LESS THAN 0.76M	0.05M
0.76 TO LESS THAN 0.91M	0.08M
0.91 TO LESS THAN 1.10M	0.10M
1.10 TO LESS THAN 1.22M	0.15M
1.22 TO LESS THAN 1.37M	0.18M
1.37 TO LESS THAN 1.52M	0.23M
1.52 TO LESS THAN 1.70M	0.28M
1.70 TO LESS THAN 1.80M	0.36M

UPRIGHT TYPE SPRINKLER HEAD

BEAM/ OBSTRUCTION

MAXIMUM DISTANCE DEFLECTOR ABOVE BOTTOM OF BEAM

FLOOR SLAB

BEAM OR OBSTRUCTION NOT TO EXCEED MAX. SPECIFIED FOR TYPES OF CONSTRUCTION

PROVIDE PIPE SLEEVES BRANCH LINE

DISTANCE FROM NEAR SIDE OF BOTTOM

1

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SCALE

NTS.

MOUNTING DETAIL OF SPRINKLER HEAD WITH RESPECT TO OBSTRUCTION

UPRIGHT TYPE SPRINKLER HEAD EXISTING TO BE REMOVED

25x15x15MM REDUCER EXISTING TO BE REMOVED

REMOVE REDUCER & PROVIDE NEW ELBOW

2-90° ELBOW

90 ELBOW

25ØMM DROPPERS

25.4x12.7 MM REDUCER TYPE INSTALLATION

MOUNTING PLATE

CEIL. LEVEL

NEW LOCATION OF RECESSED TYPE SPRINKLER HEAD

CLOSURE

NEW LOCATION OF RECESSED TYPE SPRINKLER HEAD

CLOSURE

SPRINKLER HEAD CONNECTION

2

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SCALE

NTS.

DETAIL OF SPRINKLER HEAD RELOCATION

MATERIAL SPECIFICATIONS:

FIRE LINES

FIRE LINES SHALL BE BLACK IRON (B.I.) PIPES SCHEDULE 40 STANDARD CONFORMING TO ASTM A53, SEAMLESS, "SUPREME PIPES", BRAND OR APPROVED EQUAL.

GATE VALVES

GATE VALVES SHALL BE OUTSIDE SCREW AND YOKE (OS & Y) TO ASTM B-62 CHECK AND GLOBE VALVES TO ASTM B-62. UL LISTED AND FM APPROVED.

SPRINKLER HEADS

ALL SPRINKLER HEADS (CONCEALED, UPRIGHT, & SIDEWALL) SHALL BE RATED 74°C (165°F) EXEPT ON KITCHEN SHALL BE 100°C (212°F). UL LISTED AND FM APPROVED.

ALL SPRINKLER HEADS LOCATED IN RESIDENTIAL FLOORS SHALL BE RESIDENTIAL TYPE OR QUICK RESPONSE.

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LEGENDS, SYMBOLS & ABBR.

RECESSED SPRINKLER HEAD (CHROMED FINISHED WITH ESCUTCHEON PLATE.)

UPRIGHT SPRINKLER HEAD

EXISTING BRANCH LINE

BRANCH LINE

HANGER

FIRE HOSE CABINET (FHC-1, FLUSH MOUNTED)

FIRE HOSE CABINET (FHC-2, SURFACE MOUNTED)

PORTABLE FIRE EXTINGUISHER

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PHILIPPINE STATISTICS AUTHORITY

PROJECT:

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LOCATION

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REVISIONS

SYMBOL

REMARK

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