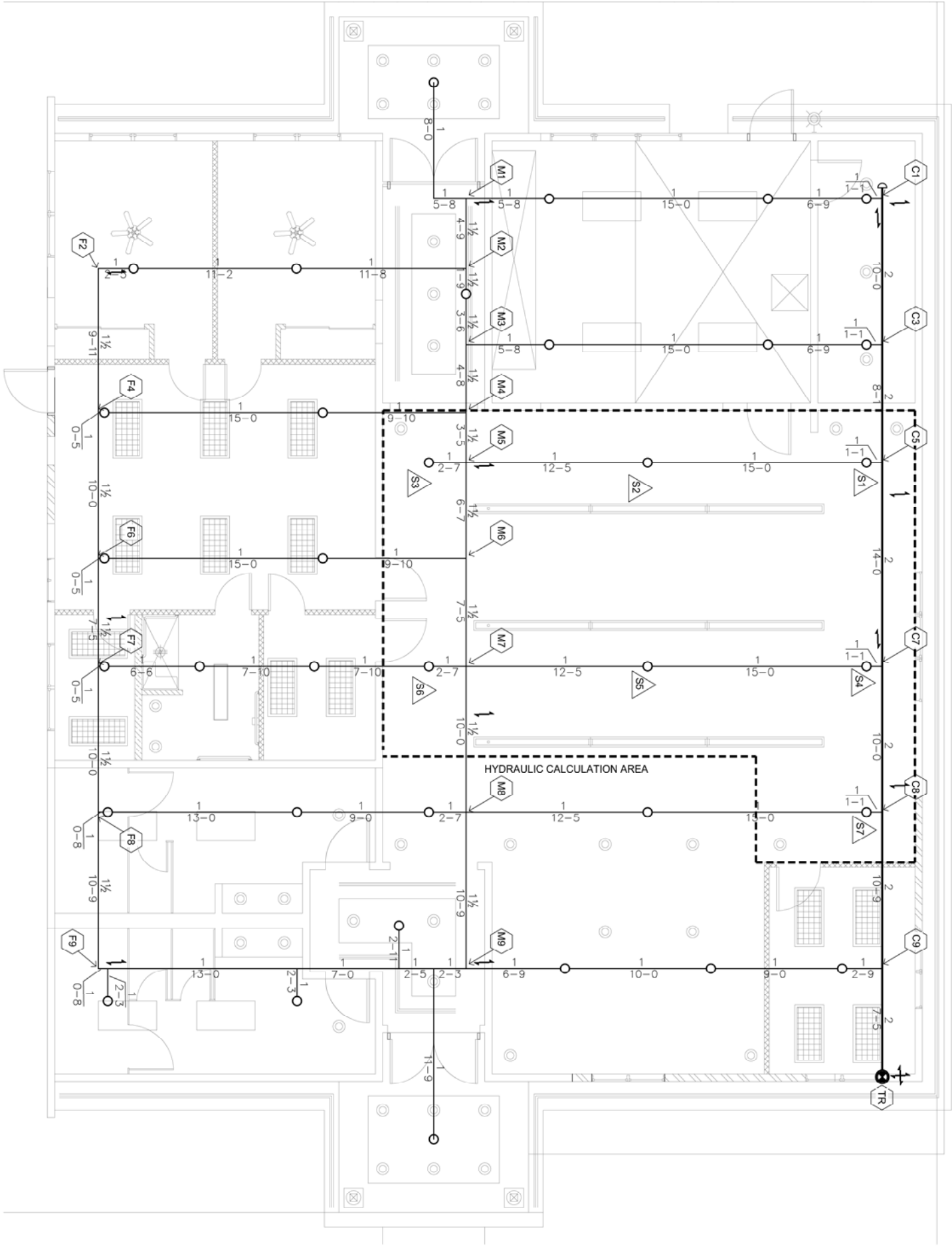




1 SPRINKLER SYSTEM
FPS-02 SCALE: 1/4" = 1'-0"

DESIGN CRITERIA

PROVIDE A WET SYSTEM WITH A MINIMUM DENSITY OF 0.10 GPM/SQ.FT. OVER 1500 SQ.FT. USING A QUICK RESPONSE SPRINKLERS 155°F TEMP-1/2" NPT, K-5.6 FACTOR, SEMI RECESSED SPRINKLER, 15 FT SPACING MAXIMUM, 225 FT³ MAXIMUM PER HEAD, HEADS AREA TO BE LOCATED NO FURTHER THAN 7.5 FT FROM ANY WALL AND NO CLOSER THAN 6 FT BETWEEN SPRINKLERS. THE SYSTEM MEETS THE REQUIREMENTS TO REDUCE THE DESIGN AREA ACCORDING TO NFPA 13 ED. 2016 CHAPTER 11 DESIGN APPROACHES SECTION 11.2.3.2.3 QUICK RESPONSE SPRINKLERS AND FIGURE 11.2.3.2.3.1 DESIGN AREA REDUCTION FOR QUICK RESPONSE. AREA CAN BE REDUCED 37% TOTAL AREA 945 SQ.FT.

FIRE SPRINKLER LEGEND

SYMBOL	MANUFACTURER	MODEL	SIN	TYPE	NPT	ORIFICE	K-FACTOR	TEMP	FINISH	ESCUTCHEON	QUANTITY
O	RELIABLE	F1FR56	RA1414	RECESSED PENDENT	1/2"	1/2"	K-5.6	155°F	WHITE	WHITE	35

TOTAL SPRINKLERS IN THIS PLAN 35

SYMBOLLOGY

SPRINKLER PIPE CPVC	CPVC RISER ASSEMBLY	RECESSED SPRINKLER K-5.6	FLOWMETER	FDC	SWAY BRACING	HYDRAULICS NODES	X DIAMETER [INCHES] X-X DISTANCE [FEET]
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HYDRAULIC INFORMATION

CHURCH

AREA PER SPRINKLER	135	SQ.FT. MAX
CALCULATED AREA	945	SQ.FT.
DENSITY	0.11	GPM/SQ.FT.
SPRINKLERS CALCULATED	7	
SPRINKLER FLOW	111.2	GPM
HOSE STREAM	100	GPM
WATER REQUIRED	211.2	GPM
ROD PRESSURE	25.4	PSI
CUSHION PRESSURE	34.4	PSI

WATER SUPPLY

PRIMARY: CITY WATER SUPPLY
STATIC PSI: 61.0
RESIDUAL: 1797 GPM AT 28.0 PSI

PROJECT:

ADDRESS:
CITY:
OWNER:
TELEPHONE:

CONTRACTOR INFORMATION

No	Date	Remarks

SPACE FOR SEAL

DESIGNER: UGBO

Drawing Title

SPRINKLERS

Permit No.

Drawn

Scale

INDICATED

Date

Sheet No.

FPS-02