

Sprinkler Legend									
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish Temp
●	Reliable	RA3614	KFR56	34	5.6	Pendent	1/2	Quick	Brass 212°F
○	Reliable	R5734	F3QR56 DRY HSW	5	5.6	Horizontal Sidewall	1	Quick	Brass 200°F
○	Reliable	RA3624	KFR56	51	5.6	Upright	1/2	Quick	Brass 212°F
				Total = 90					

Hydraulic Information	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY (gpm/ft²)	0.10 for 1500ft² (Actual 1098ft²)
TOTAL HOSE STREAMS	100.0
TOTAL HEADS FLOWING	9
K-FACTOR	5.6
TOTAL WATER REQUIRED	253.7
TOTAL PRESSURE REQUIRED	39.4
BASE OF RISER (gpm)	253.7
BASE OF RISER (psi)	33.4
SAFETY MARGIN (psi)	+70.5 (64.1%)

Hydraulic Information	
OCCUPANCY CLASSIFICATION	Ordinary Group I
DENSITY (gpm/ft²)	0.15 for 1500ft² (Actual 974ft²)
TOTAL HOSE STREAMS	250.0
TOTAL HEADS FLOWING	12
K-FACTOR	5.6
TOTAL WATER REQUIRED	630.2
TOTAL PRESSURE REQUIRED	89.0
BASE OF RISER (gpm)	630.2
BASE OF RISER (psi)	89.0
SAFETY MARGIN (psi)	+20.5 (18.7%)

REMOTE AREA #2
Light Hazard 0.10gpm/ft² for 1098ft²

REMOTE AREA #1
Ordinary Group I 0.15gpm/ft² for 974ft²

BOTTOM OF LIGHTS ABOVE SIDEWALL DEFLECTORS

WOOD SUPPRESSION BY OTHERS TYPE

EXTERIOR OVERHANG

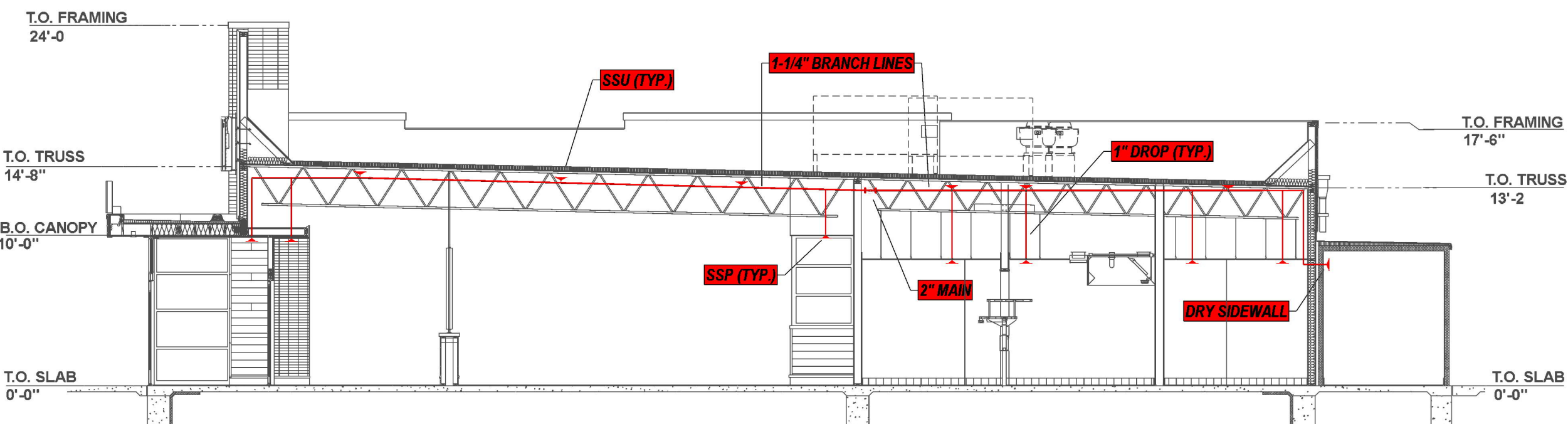
2-1/2" SINGLE INLET FDC

HIGH TEMP. HEAD

ALL BLUE WALLS ARE FULL HEIGHT

GROUND FLOOR

SCALE: 1/8"=1'-0"



BUILDING SECTION

SCALE: 1/8"=1'-0"

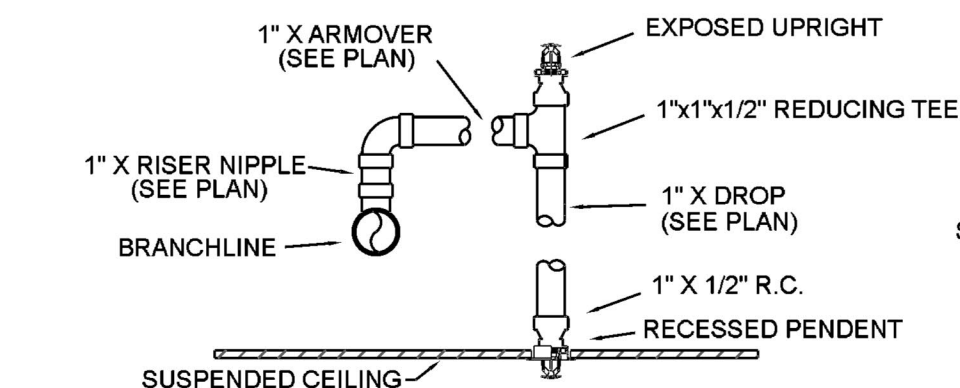
FLOW TEST INFO:
STATIC = 110 PSI
RESID = 108 PSI
FLOW = 1190 GPM

SITE PLAN

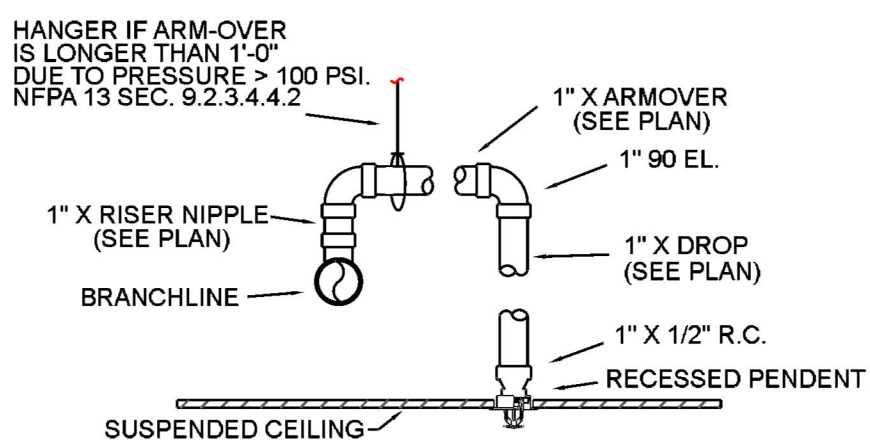
SCALE: 1"=50'-0"

RISER DETAIL

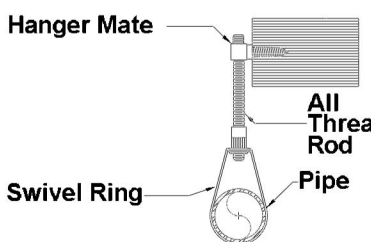
SCALE: 1/2"=1'-0"



TYP. RETURN BEND ASSEMBLY



TYP. RETURN BEND ASSEMBLY



HANGER DETAILS

MAXIMUM DISTANCE BETWEEN HANGERS (FT.-IN.)

	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"
STEEL PIPE EXCEPT THREADED LIGHTWALL	NA	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
THREADED LIGHTWALL STEEL PIPE	NA	12-0	12-0	12-0	12-0	NA	NA	NA	NA	NA

GENERAL INFORMATION

- INTERNATIONAL BUILDING CODE (2018)
 - OCCUPANCY: TYPE A-2
 - TYPE OF CONSTRUCTION: V-B
 - SPRINKLERED AREAS (APPROXIMATE - SEE ARCHITECTURAL PLANS FOR ACTUAL)
MAIN FLOOR = 4,082 S.F.
 - DESIGN & INSTALLATION STANDARDS: NFPA-13 (2016)
- SPRINKLER PIPE TYPES:
 - WET-
 - 2.1 1" PIPE TO BE SCHEDULE 40 BLACK STEEL w/ THREADED FITTINGS
 - 2.2 1-1/4" THROUGH 2-1/2" MAINS & BRANCH LINES TO BE BLK SCHEDULE 10 w/ GROOVED FITTINGS
 - 2.3 MAINS & BRANCH LINES TO BE ROLL-GROOVED BLK SCHEDULE 10
 - 2.4 2" AND LARGER TO USE GROOVED SHORT RADIUS FITTINGS
- DESIGN CRITERIA:
 - LIGHT HAZARD AREAS INCLUDE OFFICES, SEATING AREAS, ETC.
 - ORDINARY HAZARD GROUP I AREAS INCLUDE MECHANICAL AND FOOD PREP/STORAGE AREAS
 - REMOTE AREA REDUCTIONS HAVE BEEN TAKEN WHERE APPLICABLE PER NFPA 13 SEC.
- NOTES:
 - ALL MATERIAL TO BE NEW AND MEET U.L. STANDARDS
 - HANGERS TO BE INSTALLED IN ACCORDANCE WITH NFPA 13 - SEE PLAN FOR HANGING
- SYMBOLS USED ON DRAWINGS:
 - ★ 0'-0" FF 1" PIPE ELEVATION ABOVE FINISH FLOOR
 - OH1 ROOM HAZARD CLASSIFICATION (ALL ROOMS ARE CONSIDERED LIGHT HAZARD U.N.O.)
 - HYDRAULIC CALCULATION JUNCTION POINT
 - 9'-0" CEILING HEIGHT
 - WET BLACK STEEL PIPE
- SCOPE OF WORK:
 - INSTALL A COMPLETE SINGLE ZONE WET FIRE SPRINKLER SYSTEM TO COVER ALL AREAS OF BUILDING
 - ALL AREAS OF THE BUILDING TO BE INSTALLED AND COVERED IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PER NFPA 13

REVISIONS:	
1	
2	
3	

Chili's
7404 McKnight Rd
Pittsburgh

FIRE SPRINKLER PLAN, NOTES, & DETAILS

JOB NAME:	
DRAWN BY:	ZS
DATE:	11/27/24
JOB #:	FP24-658
SHEET NO:	

FP1