

e-Permitting

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FIRE DEPARTMENT PERMIT AND INSPECTION RECORD 10/31/2024
MUNICIPAL NO.2025-006082 FOLIO: 3220220090010
JOB SITE ADDRESS 7900 NW 154 ST
PROPOSED USE OFFICE - PROFESSIONAL BUILDINGS
LEGAL MIAMI LAKES BUSINESS PARK SEC 1 PB 126-54
APPLICATION TYPE ALTER INTERIOR 0 SQFT 0 UNITS 0 FLOORS
OWNER NAME HUNDREDFOLD HOLDING 7900 LLC
CONTRACTOR
QUALIFIER
PERMIT TYPE FIRE
CATEGORIES 0032 FIRE SPRINKLERS

DATE: 10/31/2024 PROCESS NUMBER: M2025001520 NEW *AMOUNT PAID 944.38
FIRE 71000 ALTERATIONS 201.00 FIRE 1 SPRINKLER UPF 187.00
FIRE 326 ROUGH INSP-FI 465.19 FIRE 326 FIRE SUPP TES 465.19
UBS1 1 BLDG 7.5% UPF 1.88 UPMU 25 UPFRONT FEE F 25.00

10/31/2024 10:17 BNZWEB1 182410311556 WEBIPAS 944.38

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REQUIRED INSPECTIONS INIT DATE
FIRE
0032 FIRE SPRINKLERS
200 FIRE HYDRANTS
201 FIRE UNDERGROUND
202 FIRE PRESSURE TEST
206 FIRE ROUGH
207 FIRE PUMP PERFORMANCE TEST
210 FIRE STANDPIPE
215 FIRE FLUSH
209 FIRE FINAL

_____	_____
_____	_____
_____	_____
_____	_____
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FIRE DEPARTMENT PERMIT AND INSPECTION RECORD 10/31/2024
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TO SCHEDULE A FIRE INSPECTION, PLEASE VISIT THE WEB AT
WWW.MIAMIDADE.GOV/BUILDING OR WWW.MIAMIDADE.GOV/FIRE. YOU WILL
NEED TO PROVIDE YOUR TEN DIGIT MUNICIPAL INSPECTION NUMBER AND
INSPECTION TYPE. THE INSPECTION TYPE CAN BE FOUND ON YOUR
INSPECTION REQUIREMENTS AND RECORDS CARD.

IF YOU HAVE ANY QUESTIONS OR CONCERNS REGARDING AN INSPECTION,
SCHEDULING A PRELIMINARY INSPECTION, OR LOAD BANK TEST
INSPECTION, PLEASE CALL FIRE PREVENTION AT 786-331-4800.

IF YOU HAVE ANY QUESTIONS OR CONCERNS REGARDING A PLAN REVIEW,
PLEASE CALL FIRE ENGINEERING AT (786) 315-2771.

**BE ADVISED THIS IS NOT A PERMIT. PERMIT IS TO BE ISSUED BY
YOUR CORRESPONDING MUNICIPAL BUILDING DEPARTMENT.

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Hydraulic Calculations by HydraCALC

ACTIVE FIRE
3895 N.W. 6TH STREET
MIAMI, FL 33126
305-541-6594

Job Name : WARD LAW
Drawing : FP-02
Location : 7900 MIAMI LAKES DR
Remote Area : 1
Contract :
Data File : CALCULATIONS.WXF

HYDRAULIC CALCULATIONS
for

JOB NAME WARD LAW GROUP
Location 7900 MIAMI LAKES DR
Drawing # FP-02
Contract #
Date 10/19/24

DESIGN

Remote area # 1
Remote area location MULTI PURPOSE
Occupancy classification LIGHT HAZARD
Density .1 - Gpm/SqFt
Area of application 1100 - SqFt
Coverage/sprinkler 100 - SqFt
Type of sprinkler calculated Q.R. STANDARD COVERAGE
Sprinklers calculated 12
In-rack demand N/A - GPM
Hose streams 100 - GPM
Total water required (including hose streams) 323.902 - GPM @ 49.088 - Psi
Type of system WET
Volume of system (dry or pre-action) N/A - Gal

WATER SUPPLY INFORMATION

Test date 04/13/24
Location 1853 SW 7 ST
Source of info MIAMI DADE FIRE

CONTRACTOR INFO ACTIVE FIRE

Address 3895 N.W. 6TH STREET / MIAMI, FL 33126
Phone # 305-541-6594
Name of designer
Authority having jurisdiction MIAMI DADE FIRE

NOTES:

SAFETY MARGIN: 2 P.S.I.

text1(35) - invisible

Water Supply Curve

ACTIVE FIRE
WARD LAW

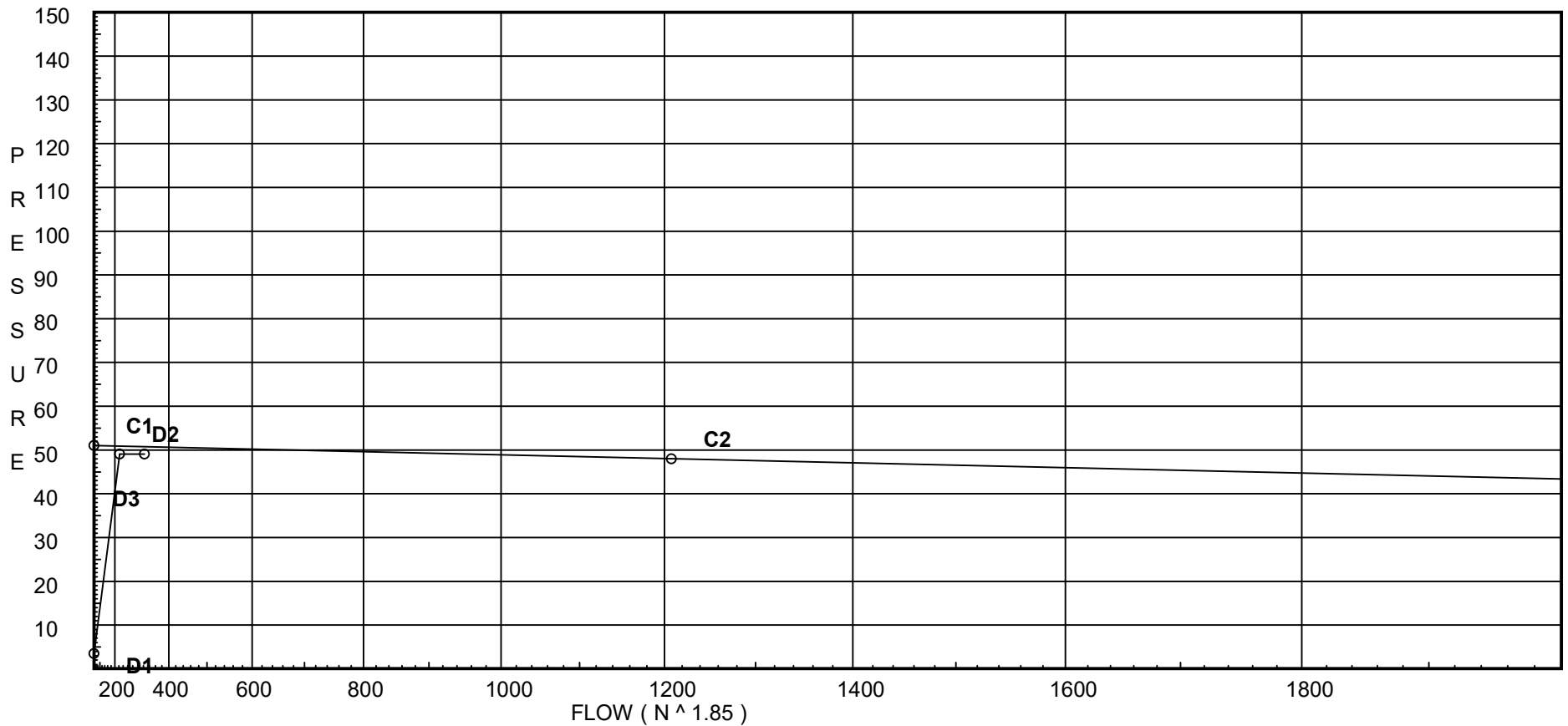
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Date 10/19/24

City Water Supply:

C1 - Static Pressure : 51
C2 - Residual Pressure: 48
C2 - Residual Flow : 1208

Demand:

D1 - Elevation : 3.465
D2 - System Flow : 223.902
D2 - System Pressure : 49.088
Hose (Demand) : 100
D3 - System Demand : 323.902
Safety Margin : 1.649



Fittings Used Summary

ACTIVE FIRE
WARD LAW

Fitting Legend																					
Abbrev.	Name	½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
B	NFPA 13 Butterfly Valve	0	0	0	0	0	6	7	10	0	12	9	10	12	19	21	0	0	0	0	0
E	NFPA 13 90' Standard Elbow	1	2	2	3	4	5	6	7	8	10	12	14	18	22	27	35	40	45	50	61
Fsp	Flow Switch Potter VSR	Fitting generates a Fixed Loss Based on Flow																			
I	90' Grvd-Vic Elbow #10	0	0	2	3	4	3.5	6	5	8	7	8.5	10	13	17	20	23	25	33	36	40
J	90'Tee-Branch Grv Vic #20	0	0	4.5	6	8	8.5	10.8	13	17	16	21	25	33	41	50	65	78	88	98	120
S	NFPA 13 Swing Check	0	0	5	7	9	11	14	16	19	22	27	32	45	55	65					
T	NFPA 13 90' Flow thru Tee	3	4	5	6	8	10	12	15	17	20	25	30	35	50	60	71	81	91	101	121

Units Summary

Diameter Units Inches
Length Units Feet
Flow Units US Gallons per Minute
Pressure Units Pounds per Square Inch

Note: Fitting Legend provides equivalent pipe lengths for fittings types of various diameters. Equivalent lengths shown are standard for actual diameters of Sched 40 pipe and CFactors of 120 except as noted with *. The fittings marked with a * show equivalent lengths values supplied by manufacturers based on specific pipe diameters and CFactors and they require no adjustment. All values for fittings not marked with a * will be adjusted in the calculation for CFactors of other than 120 and diameters other than Sched 40 per NFPA.

Flow Summary - NFPA

ACTIVE FIRE
WARD LAW

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SUPPLY ANALYSIS

<i>Node at Source</i>	<i>Static Pressure</i>	<i>Residual Pressure</i>	<i>Flow</i>	<i>Available Pressure</i>	<i>Total Demand</i>	<i>Required Pressure</i>
TEST	51.0	48	1208.0	50.737	323.9	49.088

NODE ANALYSIS

<i>Node Tag</i>	<i>Elevation</i>	<i>Node Type</i>	<i>Pressure at Node</i>	<i>Discharge at Node</i>	<i>Notes</i>	
S1	11.0	5.6	7.28	15.11	0.1	100
1	10.0		8.34			
S2	11.0	5.6	7.0	14.82	0.1	100
2	10.0		8.03			
13	10.0		9.01			
S3	11.0	5.6	10.43	18.09	0.1	100
3	10.0		11.73			
14	10.0		12.69			
S4	11.0	5.6	12.34	19.67	0.1	100
4	10.0		13.78			
15	10.0		15.25			
16	10.0		19.15			
S5	11.0	5.6	10.83	18.43	0.1	100
5	10.0		12.16			
S7	11.0	5.6	11.25	18.78	0.1	100
7	10.0		12.72			
17	10.0		14.54			
S8	11.0	5.6	13.27	20.4	0.1	100
8	10.0		15.06			
18	10.0		16.27			
19	10.0		19.23			
S9	11.0	5.6	11.27	18.8	0.1	100
9	10.0		12.63			
20	10.0		13.32			
S11	11.0	5.6	11.91	19.32	0.1	100
11	10.0		13.56			
27	10.0		15.39			
S12	11.0	5.6	13.15	20.31	0.1	100
12	10.0		14.92			
28	10.0		16.97			
23	10.0		19.65			
S6	11.0	5.6	13.12	20.28	0.1	100
6	10.0		14.75			
S10	11.0	5.6	12.61	19.89	0.1	100
10	10.0		14.72			
21	10.0		15.89			
22	10.0		17.01			
29	10.0		19.82			
24	10.0		30.25			
25	10.0		36.77			
TEST	3.0		49.09	100.0		

Final Calculations : Hazen-Williams

ACTIVE FIRE
WARD LAWPage 5
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Node1 to Node2	Elev1 Elev2	K Fact	Qa Qt	Nom Act	Fitting or Equiv Len	Pipe Ftngs Total	CFact Pf/Ft	Pt Pe Pf	*****	Notes	*****
S1 to 1	11 10	5.60	15.11 15.11	1 1.049	3E 6.0	2.000 6.000 8.000	120 0.0775	7.283 0.433 0.620		Vel = 5.61	
1 to 13	10 10		0.0 15.11	1 1.049	2E 4.0	4.750 4.000 8.750	120 0.0775	8.336 0.0 0.678		Vel = 5.61	
13			0.0 15.11					9.014		K Factor = 5.03	
S2 to 2	11 10	5.60	14.82 14.82	1 1.049	3E 6.0	2.000 6.000 8.000	120 0.0748	7.000 0.433 0.598		Vel = 5.50	
2 to 13	10 10		0.0 14.82	1 1.049	2E 4.0 5.0	4.167 9.000 13.167	120 0.0747	8.031 0.0 0.983		Vel = 5.50	
13 to 14	10 10		15.11 29.93	1 1.049		13.417 13.417	120 0.2744	9.014 0.0 3.681		Vel = 11.11	
14			0.0 29.93					12.695		K Factor = 8.40	
S3 to 3	11 10	5.60	18.09 18.09	1 1.049	3E 6.0	2.000 6.000 8.000	120 0.1080	10.434 0.433 0.864		Vel = 6.72	
3 to 14	10 10		0.0 18.09	1 1.049	E 2.0 5.0	1.917 7.000 8.917	120 0.1081	11.731 0.0 0.964		Vel = 6.72	
14 to 15	10 10		29.93 48.02	1.25 1.38		14.750 14.750	120 0.1729	12.695 0.0 2.551		Vel = 10.30	
15			0.0 48.02					15.246		K Factor = 12.30	
S4 to 4	11 10	5.60	19.67 19.67	1 1.049	3E 6.0	2.000 6.000 8.000	120 0.1261	12.342 0.433 1.009		Vel = 7.30	
4 to 15	10 10		0.0 19.67	1 1.049	E 2.0 5.0	4.583 7.000 11.583	120 0.1262	13.784 0.0 1.462		Vel = 7.30	
15 to 16	10 10		48.02 67.69	1.5 1.61	T 8.0	17.333 8.000 25.333	120 0.1541	15.246 0.0 3.905		Vel = 10.67	
16 to 19	10 10		0.0 67.69	2.5 2.635		5.417 5.417	120 0.0140	19.151 0.0 0.076		Vel = 3.98	
19			0.0 67.69					19.227		K Factor = 15.44	
S5 to 5	11 10	5.60	18.43 18.43	1 1.049	3E 6.0	2.000 6.000 8.000	120 0.1119	10.831 0.433 0.895		Vel = 6.84	
5 to 17	10 10		0.0 18.43	1 1.049	2E 4.0	17.250 4.000 21.250	120 0.1119	12.159 0.0 2.377		Vel = 6.84	

Final Calculations : Hazen-Williams

ACTIVE FIRE
WARD LAW

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Date 10/19/24

Node1 to Node2	Elev1 Elev2	K Fact	Qa Qt	Nom Act	Fitting or Equiv Len	Pipe Ftngs Total	CFact Pf/Ft	Pt Pe Pf	*****	Notes	*****
17			0.0 18.43					14.536		K Factor = 4.83	
S7 to 7	11 10	5.60	18.78	1	3E	6.0	3.000 6.000 9.000	120	11.246 0.433 1.043		
7 to 17	10		18.78	1.049			0.1159	1.043		Vel = 6.97	
7 to 17	10		0.0	1	2E T	4.0 5.0	6.667 9.000 15.667	120	12.722 0.0 1.814		
17 to 18	10		18.78	1.049			0.1158	1.814		Vel = 6.97	
17 to 18	10		18.43	1.25			16.083	120	14.536 0.0		
18			0.0 37.21					16.083	0.1079	1.736	Vel = 7.98
18			0.0 37.21					16.272		K Factor = 9.22	
S8 to 8	11 10	5.60	20.40	1	3E	6.0	4.000 6.000 10.000	120	13.274 0.433 1.350		
8 to 18	10		20.4	1.049			0.1350	1.350		Vel = 7.57	
8 to 18	10		0.0	1	T	5.0	4.000 5.000 9.000	120	15.057 0.0 1.215		
18 to 19	10		20.4	1.049			0.1350	1.215		Vel = 7.57	
18 to 19	10		37.21	1.5	T	8.0	17.833 8.000 25.833	120	16.272 0.0 2.955		
19 to 23	10		57.61	1.61			0.1144	2.955		Vel = 9.08	
19 to 23	10		67.69	2.5			9.583	120	19.227 0.0		
23			0.0 125.3	2.635			9.583	0.0437	0.419		Vel = 7.37
23			0.0 125.30					19.646		K Factor = 28.27	
S9 to 9	11 10	5.60	18.80	1	3E	6.0	2.000 6.000 8.000	120	11.268 0.433 0.928		
9 to 20	10		18.8	1.049			0.1160	0.928		Vel = 6.98	
9 to 20	10		0.0	1	2E	4.0	2.000 4.000 6.000	120	12.629 0.0 0.696		
20 to 27	10		18.8	1.049			0.1160	0.696		Vel = 6.98	
20 to 27	10		0.0	1			17.833	120	13.325 0.0		
27			18.8	1.049			17.833	0.1160	2.069		Vel = 6.98
27			0.0 18.80					15.394		K Factor = 4.79	
S11 to 11	11 10	5.60	19.32	1	3E	6.0	4.000 6.000 10.000	120	11.908 0.433 1.221		
11 to 27	10		19.32	1.049			0.1221	1.221		Vel = 7.17	
11 to 27	10		0.0	1	2E T	4.0 5.0	6.000 9.000 15.000	120	13.562 0.0 1.832		
27 to 28	10		19.32	1.049			0.1221	1.832		Vel = 7.17	
27 to 28	10		18.80	1.25			13.917	120	15.394 0.0		
28			38.12	1.38			13.917	0.1129	1.571		Vel = 8.18

Final Calculations : Hazen-Williams

ACTIVE FIRE
WARD LAW

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Date 10/19/24

Node1 to Node2	Elev1 Elev2	K Fact	Qa Qt	Nom Act	Fitting or Equiv Len	Pipe Ftngs Total	CFact Pf/Ft	Pt Pe Pf	*****	Notes	*****
28			0.0 38.12					16.965		K Factor = 9.25	
S12 to 12	11 10	5.60	20.31	1	3E 6.0	4.000 6.000	120	13.152 0.433			
12 to 28	10 10		20.31	1.049		10.000	0.1339	1.339		Vel = 7.54	
12 to 28	10 10		0.0	1	2E T 5.0	6.250 9.000	120	14.924 0.0			
28 to 23	10 10		20.31	1.049		15.250	0.1338	2.041		Vel = 7.54	
28 to 23	10 10		38.12	1.5	T 8.0	14.833 8.000	120	16.965 0.0			
23 to 29	10 10		58.43	1.61		22.833	0.1174	2.681		Vel = 9.21	
23 to 29	10 10		125.30	2.5		2.000	120	19.646 0.0			
29			183.73	2.635		2.000	0.0885	0.177		Vel = 10.81	
29			0.0 183.73					19.823		K Factor = 41.27	
S6 to 6	11 10	5.60	20.28	1	3E 6.0	3.000 6.000	120	13.117 0.433			
6 to 21	10 10		20.28	1.049		9.000	0.1336	1.202		Vel = 7.53	
6 to 21	10 10		0.0	1	2E 4.0	4.500 4.000	120	14.752 0.0			
21			20.28	1.049		8.500	0.1335	1.135		Vel = 7.53	
21			0.0 20.28					15.887		K Factor = 5.09	
S10 to 10	11 10	5.60	19.89	1	3E 6.0	7.000 6.000	120	12.610 0.433			
10 to 21	10 10		19.89	1.049		13.000	0.1288	1.675		Vel = 7.38	
10 to 21	10 10		0.0	1	T 5.0	4.083 5.000	120	14.718 0.0			
21 to 22	10 10		19.89	1.049		9.083	0.1287	1.169		Vel = 7.38	
21 to 22	10 10		20.28	1.25	T 6.0	3.000 6.000	120	15.887 0.0			
22 to 29	10 10		40.17	1.38		9.000	0.1243	1.119		Vel = 8.62	
22 to 29	10 10		0.0	1.5	T 8.0	40.000 8.000	120	17.006 0.0			
29 to 24	10 10		40.17	1.61		48.000	0.0587	2.817		Vel = 6.33	
29 to 24	10 10		183.73	2.5	2I 16.474	65.000 16.474	120	19.823 0.0			
24 to 25	10 10		223.9	2.635		81.474	0.1280	10.425		Vel = 13.17	
24 to 25	10 10		0.0	2.5	4I 32.948	18.000 32.948	120	30.248 0.0			
25 to TEST	10 3		223.9	2.635		50.948	0.1280	6.520		Vel = 13.17	
25 to TEST	10 3		0.0	2.5	B S 7.0 14.0	4.000 31.800	120	36.768 6.032		** Fixed Loss = 3	
TEST			223.9	2.469	Fsp J 10.8	35.800	0.1756	6.288		Vel = 15.00	
TEST			100.00 323.90					49.088		Qa = 100.00 K Factor = 46.23	

Final Calculations : Hazen-Williams

ACTIVE FIRE
WARD LAW

Node1	Elev1	K	Qa	Nom	Fitting		Pipe	CFact	Pt			
to					or		Ftngs		Pe	*****	Notes	*****
Node2	Elev2	Fact	Qt	Act	Equiv	Len	Total	Pf/Ft	Pf			

Miami-Dade Department of Regulatory and Economic Resources
CONTACT INFORMATION FOR PERMIT APPLICATION

FIRST NAME <i>(print clearly)</i> Adrian	LAST NAME <i>(print clearly)</i> Barquin
MOBILE PHONE (786) 720-2666	OFFICE/HOME PHONE (305) 640-5320
EMAIL <i>(required so you can be notified on the status of your plans)</i> firecarlos29@yahoo.com	
COMMENTS <i>(If you are submitting a municipal plan, please provide the municipal process number(s) and ensure the municipal application is in the office set of plans.)</i> Contractor License: 12-000158	

PLANS *(check all that apply)*

Please indicate if plans qualify for the following expedited plan reviews:

- | | | |
|--|---|--|
| ☐ GOV'T PROJECT/DEPT _____ | ☐ GREEN BLDG* <i>(new construction only)</i> | ☐ PACE PROJECT* |
| ☐ AFFORDABLE/WORKFORCE HOUSING* | ☐ ECONOMIC SIGNIFICANCE* | ☐ CONCIERGE |
- (*Pursuant to Ordinance 99-140; Ordinance 05-115; and Ordinance 08-51. Project may have additional requirements.)*

REQUESTED PLAN REVIEWS *(check all that apply for rework only)*

- | | | | | | |
|--------------------------------------|--|---|---|--|---|
| ☐ ALL | ☐ BLDG/HCAP | ☐ ELEC | ☐ ENRG | ☒ FIRE | ☐ ROOF |
| ☐ LANDSCAPING | ☐ MECH | ☐ PLUM | ☐ PWKS | ☐ PWCC | ☐ SIGN |
| ☐ STRU | ☐ ZNPR | ☐ WASD | ☐ PWIF | ☐ LPGX | ☐ SHOP DRAWING |
| ☐ DERM CORE | ☐ DERM AIR | ☐ DERM AIRPORT | ☐ DERM ASBESTOS | ☐ DERM COASTAL | ☐ DERM FLOOD |
| ☐ DERM GREASE | ☐ DERM INDUSTRIAL | ☐ DERM PAVING & DRAINAGE | ☐ DERM POLLUTION | ☐ DERM PRE-TREATMENT | ☐ DERM SOLID WASTE |
| ☐ DERM TANKS | ☐ DERM TREES | ☐ DERM WATER TREATMENT | ☐ DERM WETLANDS | ☐ PERMIT BY AFFIDAVIT CHECK | ☐ SHORT TERM EVENT AFFIDAVIT CHECK |

OPTIONAL PLAN REVIEWS *(check all that apply)*

- | | | | | |
|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| ☒ BLDG | ☐ ELEC | ☐ MECH | ☐ PLUM | ☐ STRU |
|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|

OPR DERM INITIAL REVIEWS *(check all that apply)*

- | | |
|------------------------------------|---|
| ☐ DERM CORE | ☐ DERM SPECIALTY <i>(You will be notified after core review is complete for additional fees)</i> |
|------------------------------------|---|

OPR DERM REWORK *(OPR for specialty only available at PIC)*

- | | | | | | |
|--------------------------------|-------------------------------------|-----------------------------------|--|-------------------------------|--|
| ☐ TREE | ☐ GREASE | ☐ ASBESTOS | ☐ COASTAL | ☐ AIR | ☐ PAVING & DRAINAGE |
| ☐ TANKS | ☐ INDUSTRIAL | ☐ WETLAND | ☐ PRE-TREATMENT | ☐ CORE | ☐ FLOOD |

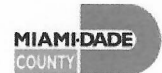
FOR OFFICE USE ONLY

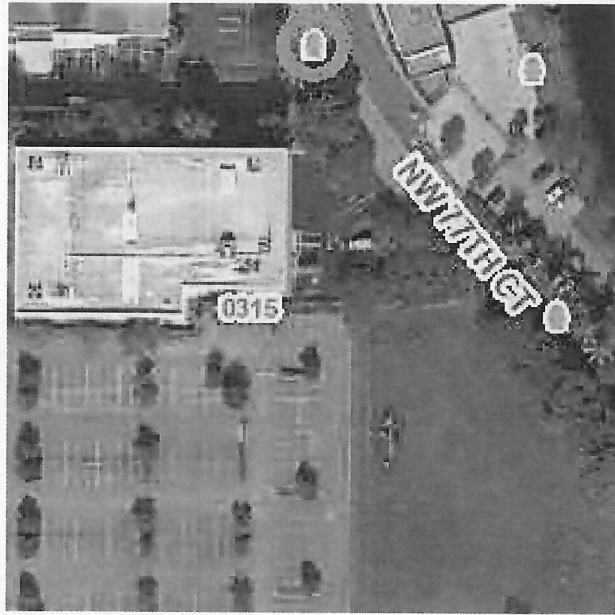
To be completed by Permit and Occupancy Representative or Plans Processing Specialist

APPLICATION DATE	CLERK NAME	ARRIVAL TIME
PROCESS NUMBER	PROCESS NUMBER	PROCESS NUMBER
☐ RE-ISSUE	☐ PLAN REVISION	☐ REWORK
☐ SHOP DRAWING		



Hydrant Flow Test Report



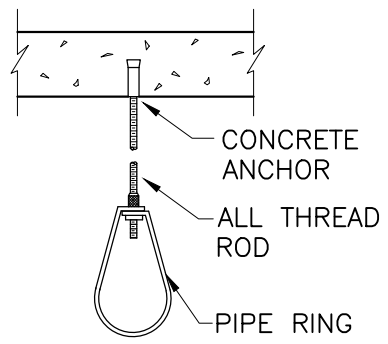
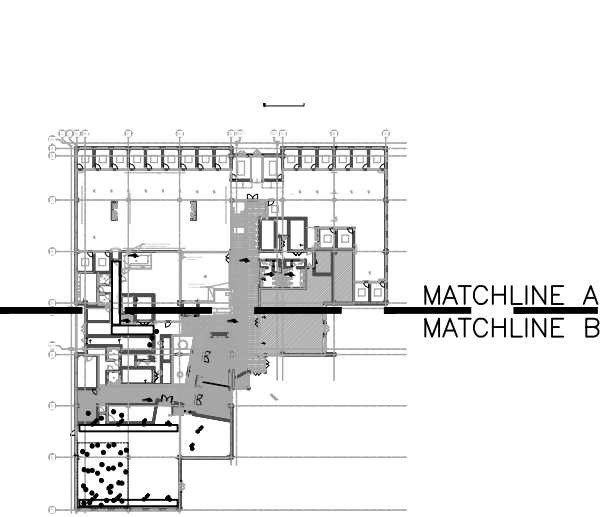
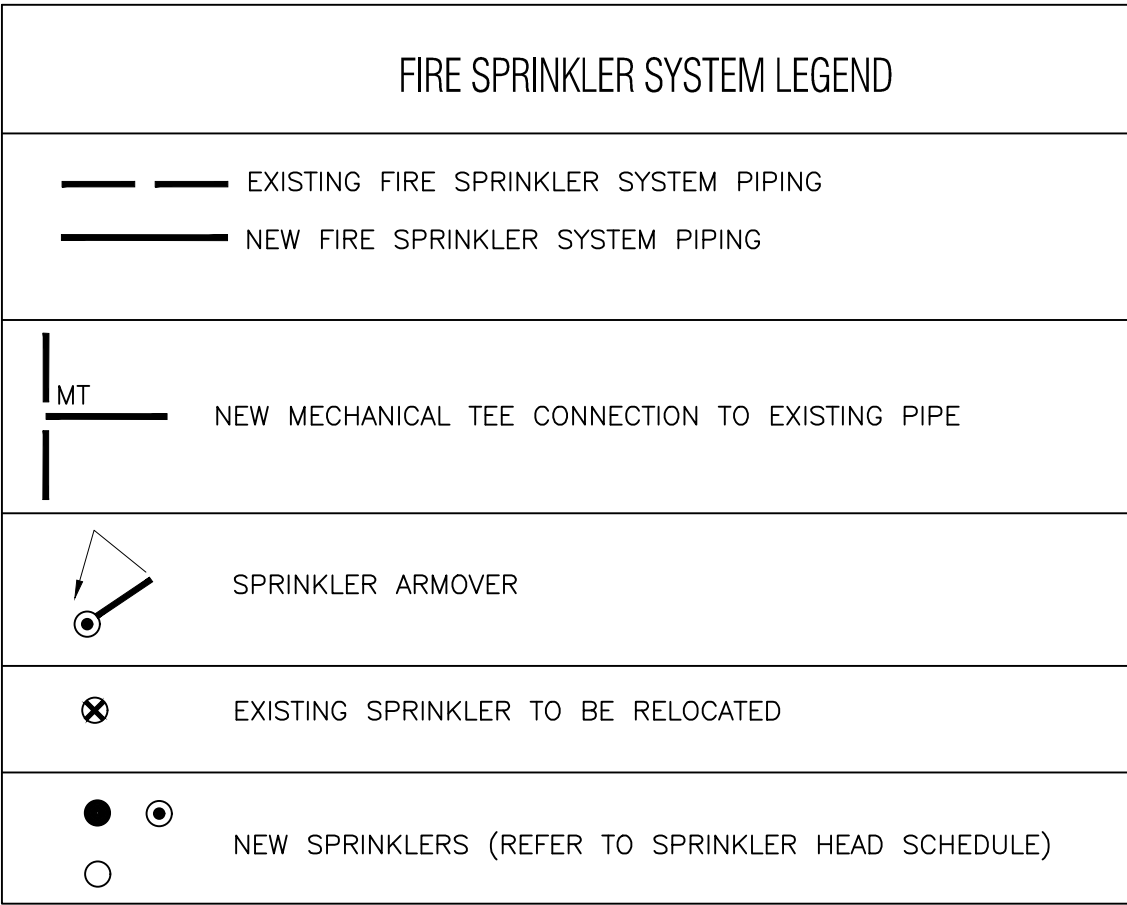
Hydrant Information			
Hydrant ID:	P50319	Agency Hydrant ID:	
Repair Owner:	MDWS	Station:	64
Location:	7900 NW 154TH ST		
Flow Test Information			
Flow Test Date:	07/17/2024 07:35:00	Flow Status:	COMPLETE
Test By:	E326996	Pitot 1:	19
Static Pressure:	56	Pitot 2:	18
Residual Pressure:	53	Pitot 3:	
Hydrant Flow:	1283.35		
Available Flow @ 20 PSIG:	4910.24		
Sprinkler Static Pressure:	51		
Sprinkler Residual Pressure:	48		
Sprinkler Flow:	1208.35		
Comments:	G202218100519 Flow,		
Map		Requestor Information	
		Date Requested:	07/17/2024 07:36:20
		Requested By:	FIRE DEPT
		Project Name:	
		Application #:	

FIRE PROTECTION GENERAL NOTES

1. FIRE PROTECTION SYSTEM TO COMPLY WITH NFPA 13 (2019 ED.), AND ALL APPLICABLE STATE AND LOCAL CODES.
2. ADHERE TO AND OBTAIN ALL PERMITS, LICENSES AND GOVERNMENT REQUIREMENTS.
3. FINAL INSPECTION AND APPROVAL BY LOCAL FIRE DEPARTMENT, AND ARCHITECT/ENGINEER.
4. CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT.
5. PIPE ROUTING SHOWN SHALL BE USED AND ANY ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES SHALL BE PROVIDED. VERIFY EXISTING STRUCTURAL, MECHANICAL, ELECTRICAL INSTALLATIONS AND AVOID ANY/ALL OBSTRUCTIONS OR INTERFERENCES WITH FIRE PROTECTION PIPE ROUTING.
6. FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE WALLS, CEILINGS, FLOORS, ROOFS, ETC. FLASH AND COUNTERFLASH ROOF PENETRATIONS. (SEE FIRE RATED PIPE PENETRATION DETAIL).
7. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILINGS AND CHASES.
8. SPRINKLER HEADS ARE TO BE COORDINATED WITH ALL EXISTING/NEW DIFFUSERS, SPEAKERS, LIGHTING FIXTURES AND CEILING SYSTEMS.
9. METHODS OF HANGING PIPES, HEADERS AND BRANCHES SHALL BE IN ACCORDANCE WITH N.F.P.A. 13R.
10. AUTOMATIC SPRINKLER TEMPERATURE RATINGS OF FUSIBLE ELEMENTS TO BE IN ACCORDANCE WITH N.F.P.A. 13R.
11. ALL VALVES FOR FIRE SERVICE SHALL BE LISTED BY THE UNDERWRITER'S LABORATORIES, INC. AND THE FACTORY MUTUAL LABORATORIES. VALVES SHALL BE FACTORY MARKED "UL" AND "FM", 175 WORKING PRESSURE.
12. ALL VALVES ON THE FIRE PROTECTION SYSTEM TO BE ELECTRICALLY SUPERVISED. TYPE AND EXACT LOCATION OF FLOW, PRESSURE AND SUPERVISORY SWITCHES SHALL FACTORY MARKED "UL" AND "FM", 175 WORKING PRESSURE.
13. ALL POWER WIRING SHALL BE ACCOMPLISHED UNDER THE ELECTRICAL DIVISION. ALL CONTROL AND INTERLOCK WIRING SHALL BE ACCOMPLISHED UNDER THIS SECTION OF THE SPECIFICATIONS IN ACCORDANCE WITH THE REQUIREMENTS IN THE ELECTRICAL DIVISION. COORDINATE ALL ELECTRICAL ITEMS WITH ELECTRICAL CONTRACTOR AND INSURE PROPER COORDINATION.
14. SPRINKLERS SHALL COVER THE ENTIRE AREA OF THE ROOM INCLUDING ALCOVES. SPRAY SHALL NOT BE BLOCKED BY WALLS OR PARTITIONS.
15. ALL SPRINKLER HEADS MOUNTED IN CEILING SHALL BE LOCATED A MINIMUM OF 4" AWAY FROM ANY WALLS, CEILING HEIGHT CHANGES OR ANY OTHER VERTICAL INTERSECTING SURFACE.
16. PROVIDE SPRINKLERS ABOVE AND BELOW EXPOSED DUCTWORK 4 FEET OR WIDER.
17. FIRE SPRINKLER SYSTEM TO BE MONITORED BY FIRE ALARM SYSTEM BY OTHERS.
18. ALL SPRINKLER HEADS IN OPERATING ROOMS, PROCEDURE ROOMS, AND ALL OTHER CLEAN / STERILE SPACES SHALL BE FULLY CONCEALED, QUICK RESPONSE TYPE, WITH GASKETED ESCUTCHEONS AND TEMPERATURE RATINGS AS CONDITIONS DICTATE. COORDINATE SPRINKLER COVER CUSTOM COLOR FINISHES WITH ARCHITECT. ASSOCIATED SPRINKLER PIPING SHALL BE RUN IN FURRED SPACES, CHASES, ETC., TO COMPLETELY CONCEAL ALL PIPING. PROVIDE AIR AND DUST SEAL IN ALL STERILE WORK. STERILE STORAGE, PATIENT PROCEDURE ROOMS, DECONTAMINATION, COMPOUNDING PHARMACY, AND DIETARY.
19. DO NOT ROUTE PIPING THROUGH TELE/DATA ROOM. ROOM SHALL NOT HAVE A DEDICATED CONTROL VALVE AND WILL NOT BE MONITORED. REFER TO FACILITY FUNCTIONAL PROGRAM.

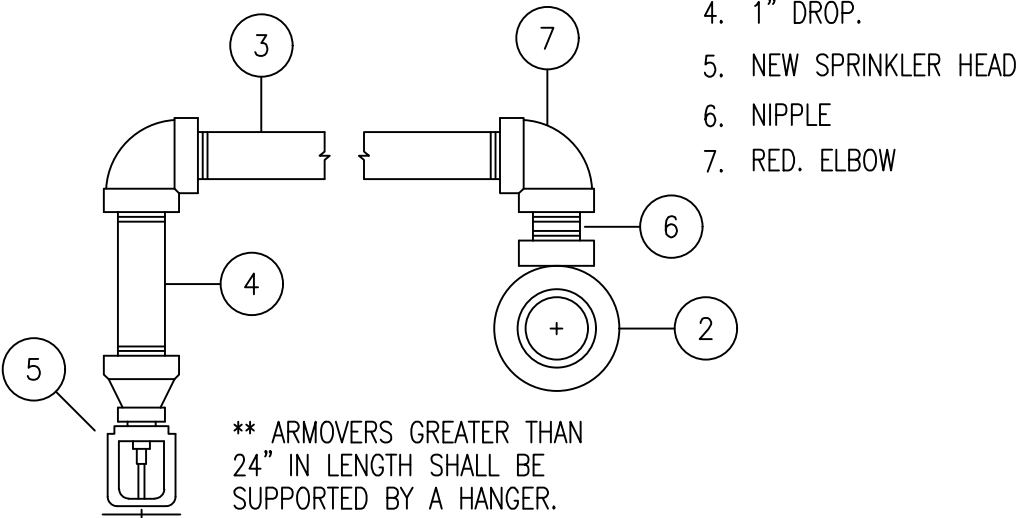
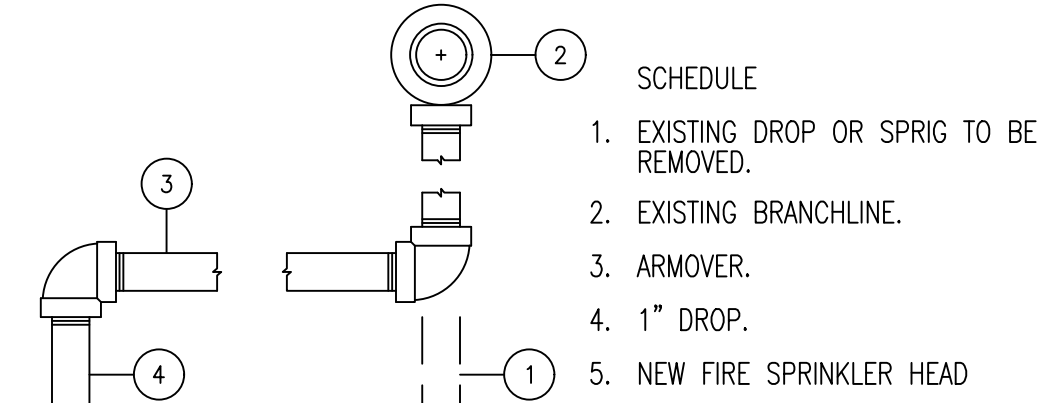
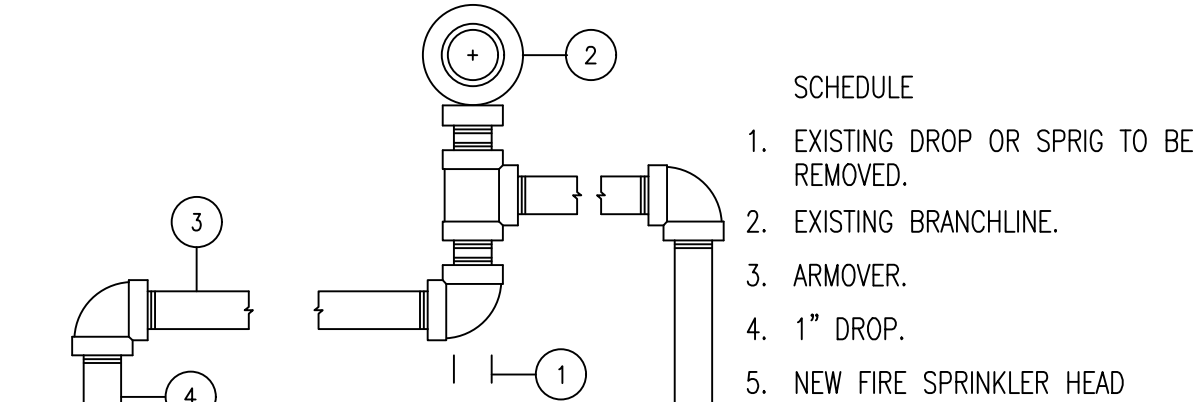
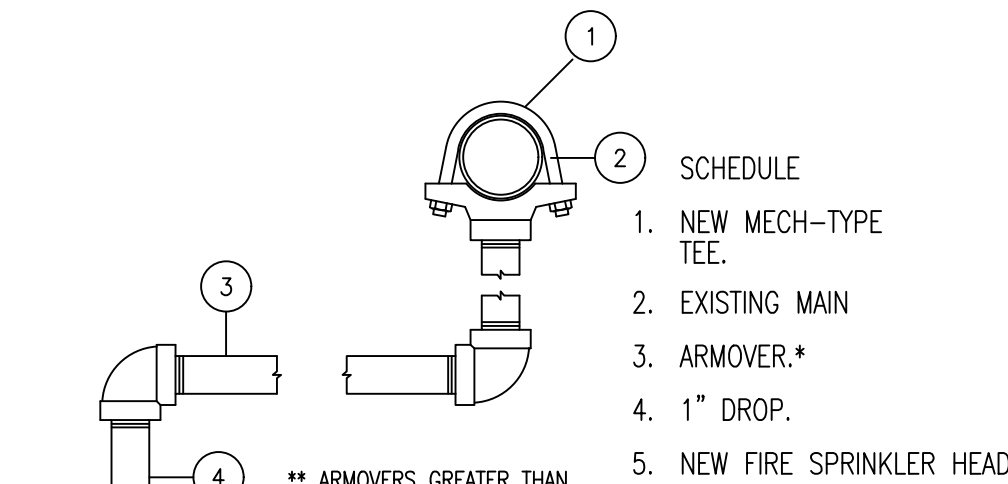
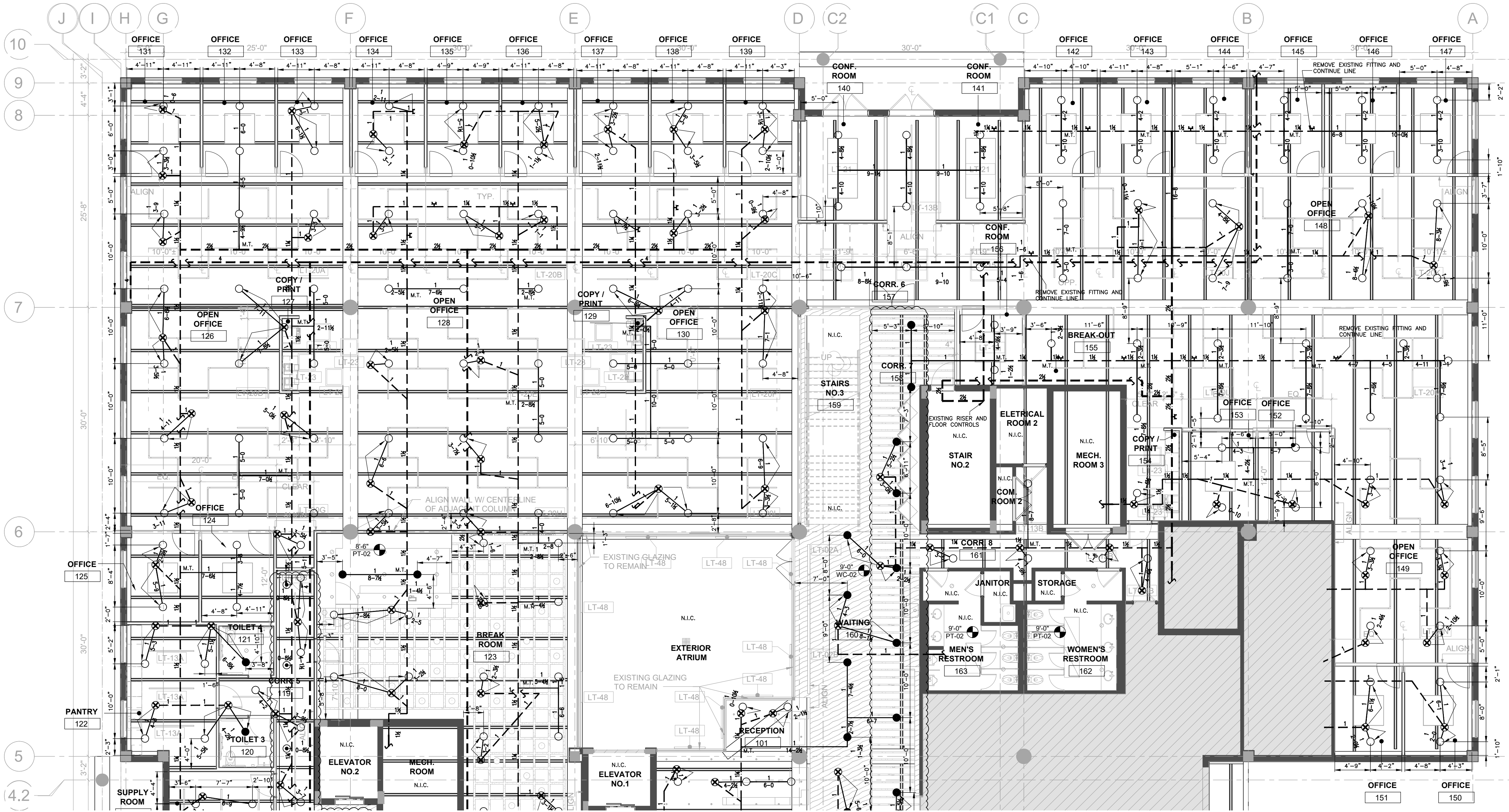
SCOPE OF WORK

1. RELOCATE EXISTING SPRINKLERS TO ACCOMMODATE NEW FLOOR PLANS
2. REMOVE UNNECESSARY PIPING AND SPRINKLERS AS NEEDED



HANGER SCHEDULE

SIZE (N.) NOMINAL PIPE	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"
STEEL PIPE (EXCEPT) THREADED LIGHTWALL	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
STEEL PIPE THREADED LIGHTWALL	N/A	12-0	12-0	12-0	12-0	12-0	12-0	N/A	N/A	N/A	N/A	N/A
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	N/A	N/A	N/A	N/A	N/A



REVISION 1 NOTES

1.	COORDINATION CHANGES
2.	UPDATE SPRINKLER COUNT
3.	NEW SPRINKLERS UNDER MECHANICAL UNITS

FIRE COUPON DISKS REQ.: ENSURE DISKS ARE ATTACHED TO MECHANICAL TEES. NFPA 13
CARRIER, KEVIN, 10/30/2024 4:50:27 PM

FIRE APPROVED PAGE
CARRIER, KEVIN, 10/30/2024 4:50:10 PM



FIRE PROTECTION PLANS MATCHLINE A

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

Sprinkler Head Schedule				
Symbol	Count	Thread	K-Factor	Description
○	234	1/2"	5.6	TYCO - TY313 Q.R. STANDARD COVERAGE UPRIGHT 155F
○	18	1/2"	5.6	TYCO - TY313 Q.R. STANDARD COVERAGE UPRIGHT 155F
●	72	1/2"	5.6	TYCO - TY323 WHITE STANDARD COVERAGE PENDANT 155F
324 = Total Number of Heads This Floor				



LIC: FPC12-000158
3895 N.W. 6 Street
Miami, Florida 33126
TEL/ FAX 305-541-6594

Drawn by:
A.BB

Drawing Title
Plan, Notes
SUBMIT FOR PERMIT
SEE REV 1 NOTES
10.19.24

Seal

MICHAEL C. GUERRERO
P.E. Reg.No.-15235

WARD LAW GROUP

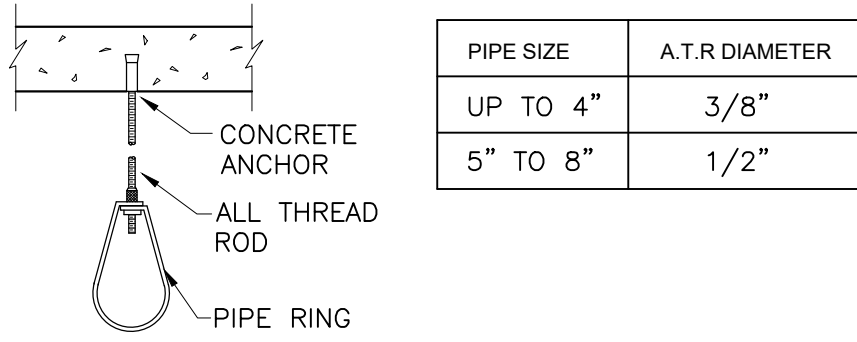
7900 MIAMI LAKES DR, 1ST FLOOR
MIAMI LAKES, FL 33016

FIRE PROTECTION
FLOOR PLANS

SCALE
AS NOTED
DATE
(06/18/2024)

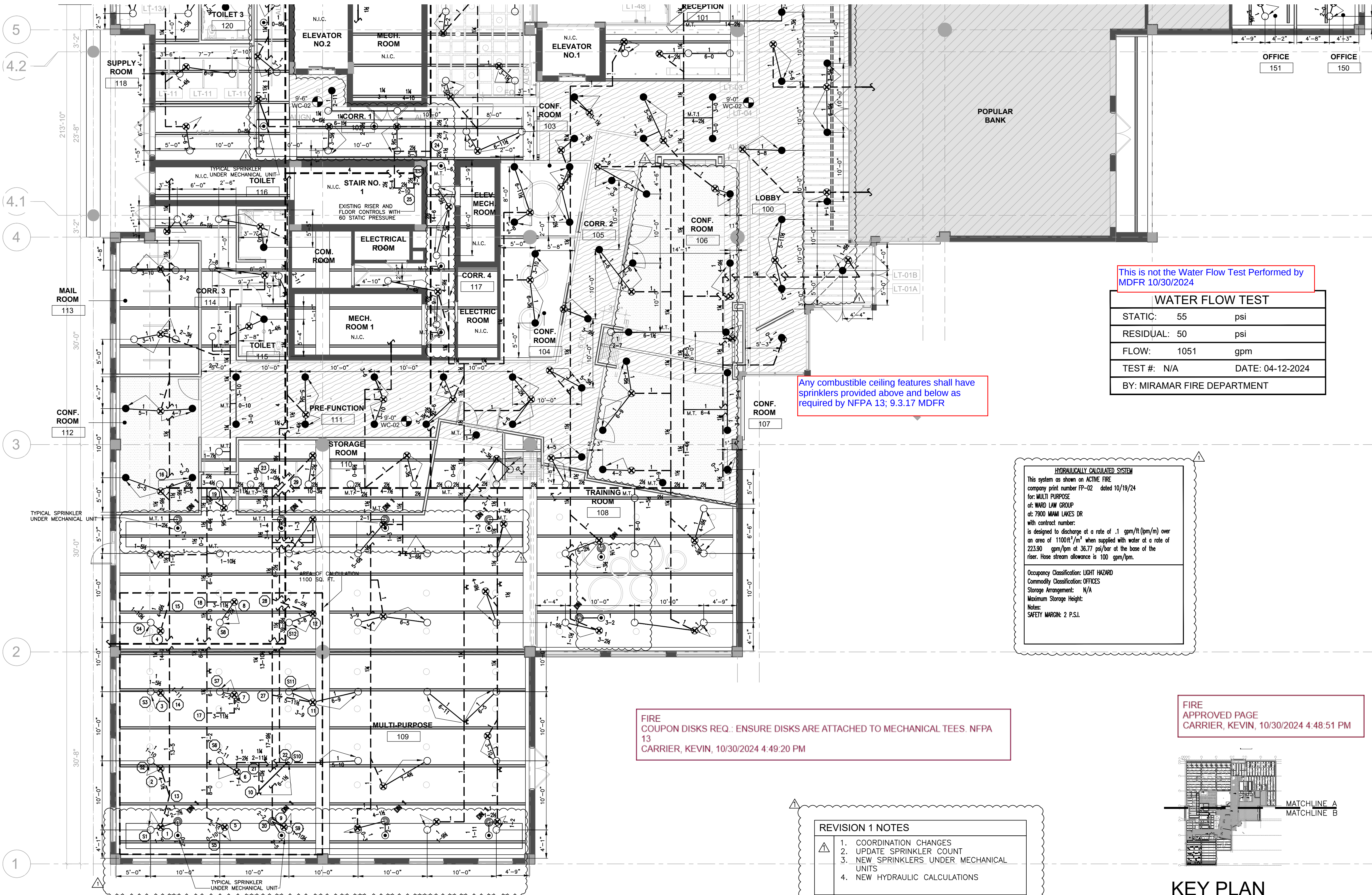
FP-01

FIRE SPRINKLER SYSTEM LEGEND	
	EXISTING FIRE SPRINKLER SYSTEM PIPING
	NEW FIRE SPRINKLER SYSTEM PIPING
	NEW MECHANICAL TEE CONNECTION TO EXISTING PIPE
	SPRINKLER ARMOVER
	EXISTING SPRINKLER TO BE RELOCATED
	NEW SPRINKLERS (REFER TO SPRINKLER HEAD SCHEDULE)



HANGER DETAILS
SCALE: N.T.S.

HANGER SCHEDULE												
SIZE(N.) NOMINAL PIPE	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"
STEEL PIPE (EXCEPT) THREADED LIGHTWALL	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
STEEL PIPE THREADED LIGHTWALL	N/A	12-0	12-0	12-0	12-0	12-0	N/A	N/A	N/A	N/A	N/A	N/A
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	N/A	N/A	N/A	N/A	N/A



This is not the Water Flow Test Performed by MDRF 10/30/2024

WATER FLOW TEST	
STATIC:	55 psi
RESIDUAL:	50 psi
FLOW:	1051 gpm
TEST #:	N/A
DATE:	04-12-2024
BY: MIRAMAR FIRE DEPARTMENT	

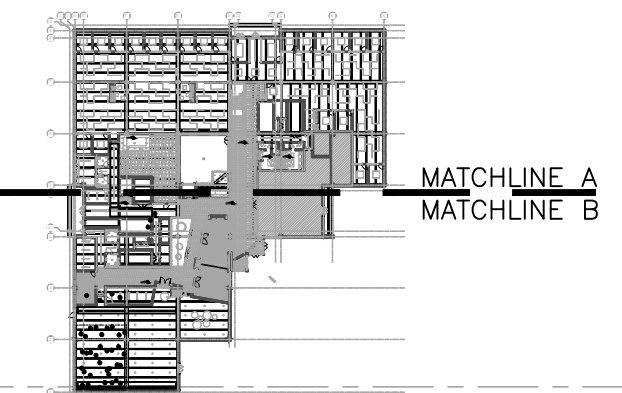
Any combustible ceiling features shall have sprinklers provided above and below as required by NFPA 13; 9.3.17 MDFR

HYDRAULICALLY CALCULATED SYSTEM
This system as shown on ACTIVE FIRE company print number FP-02 dated 10/19/24 for MULTI PURPOSE at: 7900 MIAMI LAKES DR with contract number: is designed to discharge at a rate of .1 gpm/ft (gpm/m) over an area of 1100ft²/m² when supplied with water at a rate of 223.90 gpm/turn at 36.17 psi/bar at the base of the riser. Hose stream allowance is 100 gpm/turn.
Occupancy Classification: LIGHT HAZARD
Commodity Classification: OFFICES
Storage Arrangement: N/A
Maximum Storage Height:
Notes:
SAFETY MARGIN: 2 P.S.I.

FIRE COUPON DISKS REQ.: ENSURE DISKS ARE ATTACHED TO MECHANICAL TEES. NFPA 13
CARRIER, KEVIN, 10/30/2024 4:49:20 PM

FIRE APPROVED PAGE
CARRIER, KEVIN, 10/30/2024 4:48:51 PM

REVISION 1 NOTES			
1.	COORDINATION CHANGES		
2.	UPDATE SPRINKLER COUNT		
3.	NEW SPRINKLERS UNDER MECHANICAL UNITS		
4.	NEW HYDRAULIC CALCULATIONS		



KEY PLAN
SCALE: N.T.S.

Sprinkler Head Schedule				
Symbol	Count	Thread	K-Factor	Description
○	234	1/2"	5.6	TYCO - TY313 Q.R. STANDARD COVERAGE UPRIGHT 155F
⊙	18	1/2"	5.6	TYCO - TY313 Q.R. STANDARD COVERAGE UPRIGHT 155F
●	72	1/2"	5.6	TYCO - TY323 WHITE STANDARD COVERAGE PENDANT 155F
324 = Total Number of Heads This Floor				

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

<http://www.miamidade.gov/building/home.asp>

10/31/2024 10:17:35 AM

Tracking #	Process #	Permit #
3225001520	M2025001520	2025006082

THIS COPY OF PLANS MUST BE AVAILABLE ON BUILDING SITE OR AN INSPECTION WILL NOT BE MADE.

Process #	Review	Disposition	Reviewer	Date
M2025001520	UPFRONT FEES	A	WEB APPLICATION ID	10/24/2024
M2025001520	FIRE	A	CARRIER, KEVIN	10/30/2024

Disclaimer.

Subject to compliance with all Federal, State, and County Laws, rules and regulations. Miami-Dade County assumes no responsibility for accuracy of or results of these plans.

NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to the property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies or federal agencies.

Stamp Name	Trade	Disposition	Stamp Description
Approved	FIRE	A	Approved
Reference Only.	FIRE	R	Reference only.

FIREJaime@yahoo.com

NOTE: ALL SHEETS MUST BE REVIEWED

MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

Herbert S. Saffir Permitting and Inspection Center

11805 SW 26th Street (Coral Way) • Miami, Florida 33175-2474 • (786) 315-2000

APPLICATION FOR MUNICIPAL PERMIT APPLICANTS

THAT REQUIRE PLAN REVIEW FROM MIAMI-DADE FIRE RESCUE

AND/OR ENVIRONMENTAL SERVICES

M2025001520

SME 2024-2576

3225001520

PROVIDE MUNICIPAL PROCESS NUMBER HERE

2024-095017

LOCATION OF IMPROVEMENTS	Job Address <u>7900 NW 154 St</u>		CONTRACTOR INFORMATION	Contractor No. <u>FPCA-000158</u>	
	Folio <u>32-2022-009-0010</u>			Last four (4) digits of Qualifier No. <u>6272</u>	
TYPE OF IMPROVEMENTS	Lot _____ Block _____		Current use of property <u>Office Professional Bldg</u>	Contractor Name <u>Active Fire Sprinkler Inc</u>	
	Subdivision _____ PBpg _____			Qualifier Name <u>Jaime Duque Diaz</u>	
PERMIT TYPE	Metes and bounds _____		Description of Work <u>Rebate 300</u>	Address <u>3895 NW 6 St</u>	
				City <u>Miami</u> State <u>FL</u> Zip <u>33126</u>	
REVIEW STATUS	☐ New Construction on Vacant Land		Sq. Ft. _____ Units _____ Floors _____	Value of Work <u>\$ 71,000</u>	
	☒ Alteration Interior				
PROPERTY OWNER'S INFO	☐ Alteration Exterior		Owner <u>Hundredfold Holdings 7900 LLC</u>	Address <u>1625 Miami Lakes Drive Ste 100</u>	
	☐ Relocation of Structure			City <u>Miami Lakes</u> State <u>FL</u> Zip <u>33014</u>	
PERMIT CONTACT	☐ Enclosure		Phone _____	Last four (4) digits of Owner's Social Security No. _____	
	☐ Repair				
FIRE SPECIAL REQUEST PLAN REVIEW (SRI)	☐ Repair Due to Fire		ARCHITECT / ENGINEER	Owner _____	
				Address _____	
				City _____ State _____ Zip _____	
				Phone _____	
I am requesting a Special Request Plan Review (SRI) to be scheduled as soon as possible. There is a minimum charge of one-hour. Please contact the Fire Department for current rate.					
1 st Request: _____ Date: _____					
2 nd Request: _____ Date: _____					
3 rd Request: _____ Date: _____					
If the applicant is a known named violator with: unpaid civil penalties; unpaid administrative costs of hearing; unpaid County investigative, enforcement, testing, or monitoring costs; or unpaid liens, any or all of which are owed to Miami-Dade County pursuant to the provisions of the Code of Miami-Dade County, Florida, a hold on the review may be placed on this application.					

123_01-192 4/23

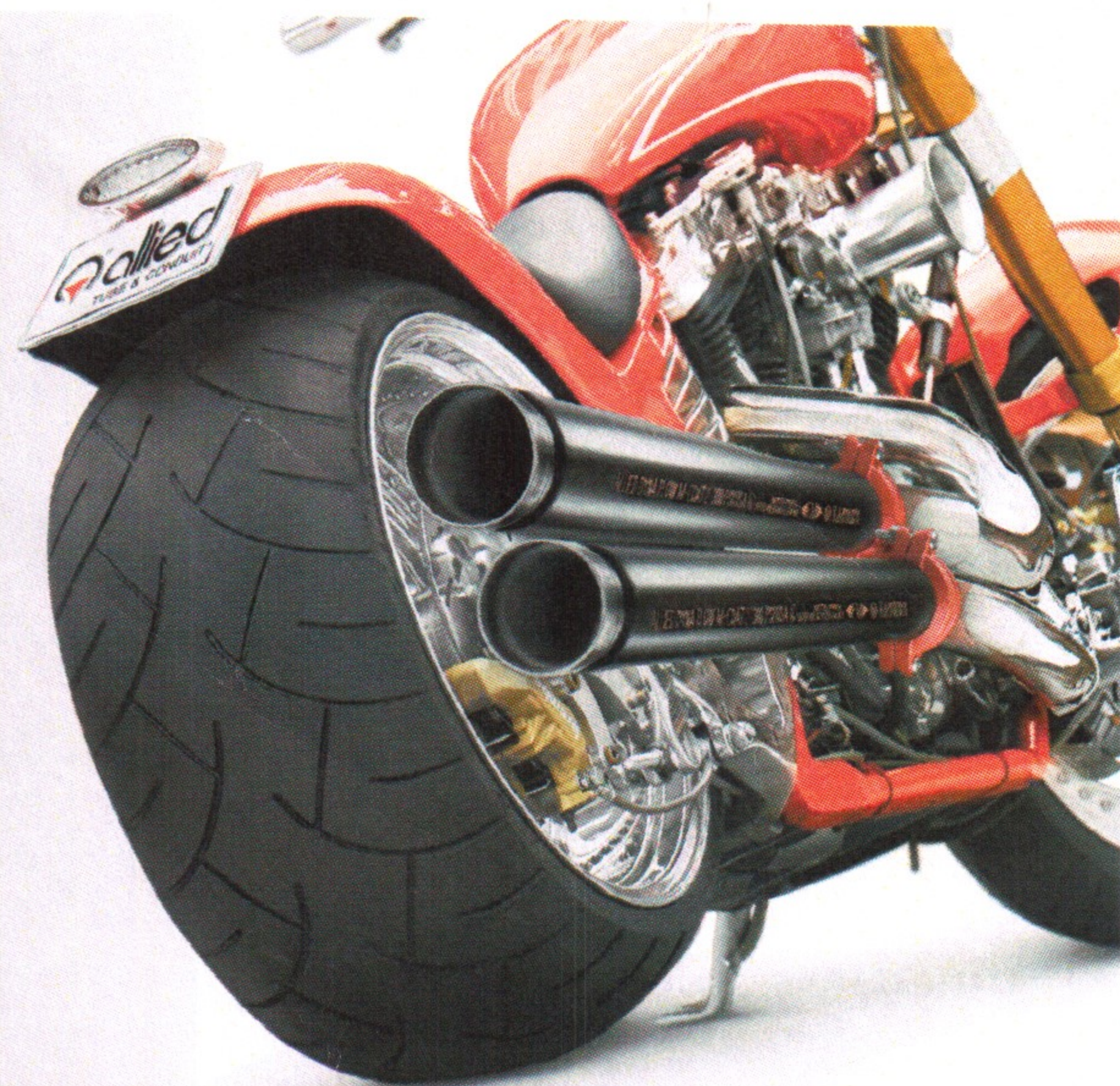
Miami Dade County Department of Regulatory and Economic Resources - Job Copy

3225001520 - 10/31/2024 10:17:35 AM

MDC PERMIT APPLICATION.pdf

Examiner Date Time Stamp Trade Stamp Name
CARRIER, KEVIN 10/30/2024 4:13:05 PM FIRE Reference Only.

Allied Tube & Conduit Sprinkler Pipe Products



TUBE & CONDUIT®

A PART OF **atkore**
INTERNATIONAL

As one of the leading producers of sprinkler pipe products in North America, we offer a complete line of innovative and reliable pipe products.

Regardless of the type of project, no matter your location, you can depend on us to enable you to complete a high quality installation.

XL®/BLT® – M-COAT®



GALVANIZED AND BLACK LIGHTWALL THREADABLE PIPE

- XL/BLT® – M-Coat®'s proven hydraulic advantage and lighter weight adds value to any system. When you need a proven sprinkler pipe, specify XL/BLT – M-Coat.

PRODUCT DESCRIPTION

- XL/BLT M-Coat pipe is exceptionally strong steel sprinkler pipe of the class generally known as "lightwall threadable pipe". Its wall thickness is less than that of Sch-40 or Sch-10, but the cold forming process undergone in manufacturing gives XL/BLT – M-Coat pipe mechanical strength characteristics equivalent to those required for Sch-40. It is designed for use in wet, dry, pre-action and deluge systems. XL/BLT M-Coat can be joined with threaded couplings (when in accordance with ANSI B1.20.1), roll grooved or plain-end couplings, or welded joints.

OTHER BENEFITS

- The clean surface quality of XL/BLT M-Coat is readily paintable. The lighter weight of XL/BLT M-Coat is a distinct advantage for retro-fit installations and can also reduce labor costs.

COATINGS & FABRICATION

- XL/BLT – M-Coat products have metallurgical properties which provide excellent fabrication characteristics for end prep finishes, welding and roll grooving. No special processes or equipment are needed for fabrication and installation. XL is manufactured with a galvanized exterior coating and BLT is black lacquer coated.

SUPER HYDRAULICS

- XL/BLT – M-Coat pipe offers the maximum hydraulic advantage of any available threadable sprinkler pipe. Its inside diameter is up to 5% larger than Sch-40. The use of XL/BLT – M-Coat in conjunction with Dyna-Flow pipe, can dramatically improve the flow characteristics, thereby increasing the potential for "downsizing" system components.

AMERICAN MADE

- Manufactured at one of 3 U.S. Facilities and is available through distributors in the USA, Canada, Mexico, and Latin America.

SPECIFICATIONS & APPROVALS

- XL/BLT – M-Coat pipe is manufactured to meet ASTM A135, Type E Grade A for fire sprinkler applications up to 300 psi working pressure. It is UL listed for wet, dry, pre-action and deluge systems, and FM approved for wet sprinkler systems. XL/BLT is ULC listed for wet, dry and pre-action systems. All threaded and welded fittings are approved in accordance with NFPA 13. FM requires 12' maximum hanger spacing for XL/BLT M-Coat. C-Factors for XL/BLT – M-Coat are 120 for wet systems, and C=100 for dry systems. Refer to Hazen-Williams charts for accurate flow comparisons.

SCHEDULE 10/ SCHEDULE 40 – M-COAT®



FULLY LISTED AND FM APPROVED SPRINKLER PIPE

- When you specify Schedule-10/Schedule-40 – M-COAT® sprinkler pipe from Allied Tube & Conduit, you get UL listed and FM approved products. Although these products do not require separate approvals, Schedule-10/Schedule-40 – M-COAT gives you the extra quality assurance you demand. Our Sch-10 (1-1/4" – 8") pipe and Sch-40 (1" – 2-1/2") pipe have passed the same thorough lab testing as our other listed pipe products, and receive periodic mill inspections from both UL and FM agents to ensure consistent quality.

SUPERIOR COATING

- Our advanced formula mill coating offers a clean, durable surface that is also paintready for custom color applications without special preparation.
- The internal surface of all black Fire Sprinkler pipe up to 4.5000" in diameter shall be coated with Allied Tube & Conduit Antibacterial Formula "M-COAT".

AMERICAN MADE

- Manufactured at one of 3 U.S. Facilities and is available through distributors in the USA, Canada, Mexico, and Latin America.

SPECIFICATIONS & APPROVALS

- Schedule-10/Schedule-40 M-COAT pipe are in compliance with the following: ASTM A135, Type E, Grade A, and NFPA 13. Both pipe products have a working pressure rating of 300 psi maximum and also meet the stringent requirement for the following tests: Welded Outlets, Hydrostatic Pressure, Side Wall Rupture, Vibration Test.

DYNA-THREAD® – M-COAT®



FULL LINE SCH-40 REPLACEMENT

- Dyna-Thread® – M-Coat® sprinkler pipe represents an engineering advancement for the sprinkler pipe industry. It combines the safety and longevity of traditional Sch-40 pipe with quality and superior hydraulic advantages.

COMPARISON TO SCHEDULE 40

- Dyna-Thread® – M-Coat® inside diameter is up to 3.6% larger than Sch-40 giving it superior hydraulics. Also, when used in combination with Dyna-Flow – M-Coat pipe, down sizing often occurs. Dyna-Thread is fully listed and approved UL, ULC, and FM for fire sprinkler applications. The life expectancy of Dyna-Thread – M-Coat and Sch-40 are equal based on the calculated wall thicknesses per UL. The consistent quality of steel used to make Dyna-Thread – M-Coat facilitates smooth threading and lower maintenance costs. The exterior of Dyna-Thread – M-Coat is protected by a clean, durable mill coating for extended

shelf life and easy paint application. With its increased strength and lighter weight, Dyna-Thread – M-Coat reduces installation fatigue and is ideal for retro-fit applications. Corrosion Resistance Ratio (CRR) is a UL (Underwriters Laboratory) term for the estimated life expectancy of a pipe joint. This is based on the calculated wall thickness at the base of the first exposed thread, assumed to be the weakest point of the pipe length. Dyna-Thread – M-Coat and Sch-40 have the same calculated wall thicknesses at this point and are both assigned the same CRR of 1.00.

COMPARISON TO L.W.T. PIPE

- More wall thickness at the thread (CRR=1.00) gives Dyna-Thread – M-Coat better life expectancy than lightwall threadable pipe joints. Dyna-Thread – M-Coat is approved for standard hanger spacing (15 ft. O.C.), can be used as earthquake sway bracing, and is safe to use as drops. Dyna-Thread – M-Coat is safer to weld on than many zinc coated

lightwall threadable pipe products. Dyna-Thread – M-Coat is more widely accepted than lightwall threadable where Sch-40 is specified.

AMERICAN MADE

- Manufactured at one of 3 U.S. Facilities and is available through distributors in the USA, Canada, Mexico, and Latin America.

SPECIFICATIONS & APPROVALS

- Dyna-Thread – M-Coat pipe is manufactured to meet: ASTM A 135, Type E Grade A, and is in compliance with NFPA-13. All sizes of Dyna-Thread – M-Coat are rated at 300 psi working pressure. Dyna-Thread – M-Coat is UL and ULC Listed for wet, dry and pre-action sprinkler systems and FM Approved for use in wet systems. Dyna-Thread – M-Coat is approved for all threaded couplings and welded outlets and is suitable for all roll-grooved, and plain-end fittings. (See listing information).

DYNA-FLOW® – M-COAT®



HIGH STRENGTH STEEL PIPE

- Dyna-Flow® – M-Coat® pipe is the "original" high-strength lightwall sprinkler pipe. Dyna-Flow – M-Coat has outstanding hydraulic capabilities and is recognized as the most popular alternative to Schedule-10 pipe. Lightweight, easy to cut and easy to handle for installation. Dyna-Flow – M-Coat is a valuable addition to any fire protection system.

ADDITIONAL BENEFITS

- Lightweight and easy to install, resulting in more efficient use of your freight and labor dollars. Provides stability needed to comply with standard hanger spacing (15 ft O.C.) per NFPA. Available in standard lengths for your convenience, or can be ordered in custom lengths upon approval. Fast cutting and welding, as well as easy roll grooving and end preparation. Available in Factory roll grooved form for quicker shop turnaround. Clean, durable mill coating provides longer "shelf life" and acts as an excellent primer for custom paint applications.

SUPERIOR HYDRAULICS

- With an inside diameter of up to 11% larger than Schedule 40 and up to 7% larger than Schedule 10, Dyna-Flow – M-Coat pipe hydraulics are exceptional. Larger I.D.s enable Dyna-Flow – M-Coat, and related components, to be down-sized within the system, thus increasing the potential for job cost savings. For complete Hazen-Williams charts, refer to "Dyna-Flow – M-Coat Hydraulic Data Tables."

COATINGS & FABRICATIONS

- Dyna-Flow – M-Coat products are coated externally with an environmentally approved and specially formulated modified-acrylic or water-based coating. This durable, exterior black coating is paintable and acts as an excellent primer that is resistant to weathering and U.V. degradation from outdoor storage. Metallurgical properties provide excellent fabrication characteristics for end prep finishes, welding and roll grooving. No special process or equipment is needed for fabrication and installation.

- The internal surface of all black Fire Sprinkler pipe up to 4.5000" in diameter shall be coated with Allied Tube & Conduit's FBCTM System Compatible "M-COAT" ID Coating.

AMERICAN MADE

- Manufactured at one of 3 U.S. Facilities and is available through distributors in the USA, Canada, Mexico, and Latin America.

SPECIFICATIONS & APPROVALS

- Dyna-Flow – M-Coat pipe is manufactured to meet ASTM A 795, Type E Grade A, and are in compliance with NFPA-13 and NFPA-14. All sizes of Dyna-Flow are UL Listed, FM Approved and ULC Listed.
- Dyna-Flow – M-Coat is UL/ULC Listed for use with roll grooved, plain-end couplings, and welded joints for wet, dry, pre-action and deluge systems. It is FM Approved for roll grooved, plain-ended, and welded joints for wet systems. Refer to appropriate documentation for up-to-date listing and approval information.

DYNA-THREAD® – M-COAT®

Dyna-Thread – M-COAT Specifications					
NPS	Nominal I.D.	Wt.	Wt. (H2O Filled)	CRR	CRR
In; mm	In; mm	Lbs/Ft; kg/m	Lbs/Ft; kg/m	Unthreaded	Threaded
1"	1.080	1.330	1.75	11.39	1.00
25	27.4	2.0	2.60	—	—
1¼"	1.408	1.870	2.54	9.50	1.00
32	35.8	2.8	3.78	—	—
1½"	1.639	2.290	3.22	9.14	1.00
40	41.6	3.4	4.79	—	—
2"	2.104	3.050	4.57	8.41	1.00
50	53.4	4.5	6.80	—	—

SCHEDULE 40 – M-COAT®

Sch-40 ASTM A135/A795 M-COAT Specifications						
NPS	Nominal	Nominal I.D.	Nominal	Wt.	Wt. (H2O Filled)	CRR
In;mm	O.D. In; mm	In; mm	Wall In; mm	Lbs/Ft; kg/m	Lbs/Ft; kg/m	—
1"	1.315	1.049	0.133	1.680	2.05	1
25	33.4	26.6	3.38	2.5	3.05	—
1¼"	1.660	1.380	0.140	2.270	2.93	1
32	42.1	35.1	3.56	3.39	4.36	—
1½"	1.900	1.610	0.145	2.720	3.61	1
40	48.3	40.9	3.68	4.0	5.37	—
2"	2.375	2.067	0.154	3.656	5.13	1
50	60.3	52.5	3.91	5.4	7.63	—
2½"	2.875	2.469	0.203	5.80	7.86	1
65	73	62.7	5.16	8.6	11.73	—

DYNA-FLOW® – M-COAT®

Dyna-Flow – M-COAT Specifications				
NPS	Nominal I.D.	Wt.	Wt. (H2O Filled)	CRR
In; mm	In; mm	Lbs/Ft; kg/m	Lbs/Ft; kg/m	Unthreaded
1"	1.191	0.830	1.31	2.41
25	30.3	1.2	1.95	—
1¼"	1.536	1.059	1.87	1.55
32	39.0	1.6	2.78	—
1½"	1.728	1.667	2.71	3.44
40	43.9	2.5	4.03	—
2"	2.203	2.104	3.79	2.78
50	56.0	3.1	5.64	—
2½"	2.703	2.564	5.10	1.60
65	68.7	3.8	7.59	—
3"	3.314	3.387	7.18	1.48
75	84.2	5.0	10.69	—
4"	4.310	4.473	10.86	1.00

SCHEDULE 10 – M-COAT®

Sch-10 ASTM A135/A795 M-COAT Specifications						
NPS	Nominal	Nominal I.D.	Nominal	Wt.	Wt. (H2O Filled)	CRR
In; mm	O.D. In; mm	In; mm	Wall In; mm	Lbs/Ft; kg/m	Lbs/Ft; kg/m	—
1¼"	1.660	1.442	0.109	1.810	2.525	7.0955
32	42.2	36.6	2.77	2.7	3.75	—
1½"	1.900	1.682	0.109	2.09	3.04	5.6570
40	48.3	42.7	2.77	3.1	4.52	—
2"	2.375	2.157	0.109	2.640	4.22	4.5827
50	60.3	54.8	2.77	3.9	6.28	—
2½"	2.875	2.635	0.120	3.530	5.89	3.5196
65	73	66.9	3.05	5.26	8.77	—
3"	3.500	3.260	0.120	4.34	7.94	2.5550
75	88.9	82.8	3.05	6.4	11.82	—
4"	4.500	4.260	0.120	5.62	11.78	1.6020
100	114.3	108.20	3.05	8.3	17.53	—
5"*	5.563	5.295	0.134	7.78	17.33	1.4874
125	141.3	134.5	3.40	11.58	25.80	—
6"*	6.625	6.357	0.134	9.3	23.03	1.0251
150	168.3	161.5	3.40	13.8	34.27	—
8"*	8.625	8.249	0.188	16.96	40.15	1.8365
200	219	209.50	4.78	25.2	59.75	—

*Not available with M-Coat

XL/BLT® – M-COAT®

XL/BLT – M-COAT Specifications					
NPS	Nominal I.D.	Wt.	Wt. (H2O Filled)	CRR	CRR
In; mm	In; mm	Lbs/Ft; kg/m	Lbs/Ft; kg/m	Unthreaded	Threaded
1"	1.104	1.13	1.61	7.21	0.35
25	28.0	1.8	2.40	—	—
1¼"	1.452	1.46	2.25	4.63	0.17
32	36.9	2.3	3.35	—	—
1½"	1.687	1.76	2.84	4.83	0.18
40	42.8	2.8	4.23	—	—
2"	2.154	2.35	4.06	4.20	0.21
50	54.7	3.7	6.04	—	—
2½"*	2.581	4.08	6.34	TBD	TBD
65	65.5	6.05	9.45	—	—
3"*	3.200	5.01	8.49	TBD	TBD
75	81.2	7.43	12.7	—	—

* only available in XL



Anaerobic Thread Sealant Paste with PTFE

Description

PipeFit® AS Anaerobic Thread Sealant with PTFE is formulated to provide the highest pressure resistant seal of any anaerobic compound suitable for fire sprinkler systems. PipeFit® AS provides lubrication during assembly then cures to a resilient, vibration-proof polymer shim which is resistant to corrosive chemicals, solvents and galvanic attack between dissimilar metals. After complete cure (24 hours) the joint can be disassembled with normal pipe working tools if required. **DO NOT USE ON CPVC OR OTHER PLASTIC PIPE.**



Directions

Apply PipeFit® AS to first few male threads then assemble parts normally. Cures to 50% in 4 hours, 90% in 8 hours and completely cured within 24 hours. **DO NOT USE DOPE AND TAPE TOGETHER.**

Can be used on stainless steel.

WARNING: CONTAINS METHACRYLATE ESTERS Avoid eye contact or extended skin exposure. For eye contact, immediately flush with water for 15 minutes and seek medical attention. For extended skin exposure wash contact area thoroughly and consult a physician.

KEEP OUT OF REACH OF CHILDREN. FOR EMERGENCY SPILL INFORMATION CONTACT CHEMTREC 1(800) 424-9300.

Specifications

Product Characteristics:
Paste

Color:
White

S Gravity:
1.15gm/cc

Viscosity:
1500000cps

Flash point:
860° F

Temp Range:
-65° F to +400° F

Storage stability at <75° F:
250 ml - 12 months
750 ml - 12 months
7 l - 6 months

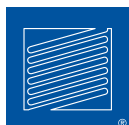
Performance Characteristics

Cure speeds:
50% - 4 hours
90% - 8 hours
100% - 24 hours

Locking Torque:
400 in. lbs (½" NPT)

Cured Seal:
10000psi Fluids
3000psi Gases
125 psi Natural Gas

Chemical Resistance:
Excellent



3198 LIONSHEAD AVE
CARLSBAD, CA 92010
TEL + 1 760 599-1168
+ 1 800 344-1822
FAX + 1 800 344-3775

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Address: 7900 NW 154 ST
Folio #: 3220220090010
MDC Process #: M2025001520
MDC Tracking #: 3225001520
Job Description: RELOCATE (300) FIRE SPRINKLER HEADS IN LAYOUT

Master Permit #: BLC2024-0184

Sub Permit #: SME2024-2576

Revision #:

OFFICE USE ONLY

ZONING	Approved	Date	Disapproved	BUILDING	Approved	Date	Disapproved	STRUCT.	Approved	Date	Disapproved
	Date				Date				Date		
	Initials				Initials				Initials		
ROOFING	Approved	Date	Disapproved	ELECT.	Approved	Date	Disapproved	MECH.	Approved	Date	Disapproved
	Date				Date				Date		
	Initials				Initials				Initials		
PLUMBING	Approved	Date	Disapproved	FLOOD	Approved	Date	Disapproved		Approved	Date	Disapproved
	Date				Date				Date		
	Initials				Initials				Initials		

PLANS CHECKED-OUT

DATE	NAME

PLANS CHECKED-IN

DATE	NAME

	AMOUNTS
BASE PERMIT	
ZONING FEE	
CODE COMPLIANCE FEE	
TECHNOLOGY FEE	
DBPR SURCH. STATE	
DBPR SURCH. BUILDING	
SCANNING FEE	
WORK W/O PERMIT FEE	
UPFRONT FEE PAID	
BALANCE DUE:	



6601 Main St • Miami Lakes, Florida, 33014
Office: (305) 827-4015 • Fax: (305) 558-9884
Website: www.miamilakes-fl.gov

BUILDING PERMIT APPLICATION

Job Address: 7900 Nw 154 St

Unit #:

Folio #: 32-2022-009-0010 Owner-Builder: ☐

Master Permit #: BLC2024-0184 Sub Permit #: SNE2024-2576 Revision #: _____

OWNER INFORMATION	LEGAL USE/WORK
NAME: Hundredfold Holding 7900 LLC	Current Use of Property: Office Bldg
Address: 6625 Miami Lakes Dr Ste 100	Job Description: Rebate (300) fire sprinkler heads in layout.
City, State, Zip: Miami Lakes, FL 33014	JOB COST \$ 71,000 AREA/LENGTH: _____ SF/LF
Phone #: 305-777-3800 Cell #:	Residential ☐ Multi-Family ☐ Commercial ☒ Industrial ☐
Email Address:	Code in Effect: _____
Company Name: Activefire Sprinkler, Inc	Occupancy: _____
Qualifier Name: Jaime Duque Diaz	Construction Type: _____
License # FPC12-000158	Flood Zone/B.F.E.: _____ F.F.E.: _____
Address: 3895 Nw 6 St	Firm Name: _____
City, State, Zip: Miami, FL 33126	A/E of record: _____
Phone #: 305-640-5320 Cell #: 786-222-9917	License # _____
Email Address: firecarlos29@yahoo.com	Address _____
	City, State, Zip _____
	Phone #: _____ Cell #: _____
	Email Address: _____

CONTRACTOR INFORMATION	ARCHITECT/ENGINEER
Permit Type -- Check only One	Change to Permit -- Check only One
☐ Building ☐ Electrical ☒ Mechanical ☐ Plumbing/Gas	☐ Extension ☐ Renewal ☐ Revision
☐ Paving/Drainage ☐ Sign ☐ Roofing ☐ P/W	☐ Change Contractor ☐ Shop Drawing ☐ Cancellation

Application is hereby made to obtain a permit to do work and installation as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work will be performed to meet the standards, of all laws regulating construction in this jurisdiction. I understand that a separate permit must be secured for ELECTRICAL WORK, MECHANICAL, PLUMBING, SIGNS, WELLS, POOLS, RE-ROOFING, SHUTTERS, WINDOWS, FURNACES, BOILERS, HEATERS, TANKS, and AIR CONDITIONERS, etc. I understand that in signing this application I am responsible for the supervision and completion of the construction including scheduling of inspections and obtaining final inspections in accordance with the plans and specification WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR ATTORNEY OR LENDER BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT. OWNER/CONTRACTOR AFFIDAVIT: I Certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws regulating construction and zoning.

X

Signature of Owner or Owner's Agent

Date

Print Name of Owner or Owner's Agent

X

Signature of Qualifier

Date

Print Name of Qualifier

STATE OF _____ COUNTY OF _____

Sworn to and subscribed before me this _____ 20 _____

by _____ (SEAL)

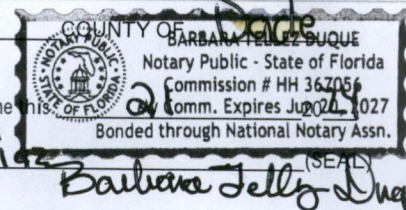
Personally known ☐ or I.D. _____

STATE OF FL

Sworn to and subscribed before me this _____ 2024

by Jaime Duque Diaz

Personally known ☒ or I.D. _____



NOTICE: In addition to the requirements of this permit, there may be additional deed restrictions enforced by the homeowner's associations that may be applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies, or federal agencies.

Miami Dade County Department of Regulatory and Economic Resources
3225001520 - 10/31/2024 10:17:33 AM

TOML PERMIT APPLICATION NOTE: This application will be void if there are no reviews after six(6) months.

Series TY-FRB, 5.6 K-factor Upright, Pendent, and Recessed Pendent Sprinklers Quick Response, Standard Coverage

General Description

The TYCO Series TY-FRB, 5.6 K-factor, Upright (TY313) and Pendent (TY323) Sprinklers described in this data sheet are quick response, standard coverage, decorative 3 mm glass bulb-type spray sprinklers designed for use in light or ordinary hazard, commercial occupancies such as banks, hotels, and shopping malls.

The recessed version of the Series TY-FRB Pendent Sprinkler, where applicable, is intended for use in areas with a finished ceiling. This recessed pendent sprinkler uses one of the following:

- A two-piece Style 15 Recessed Escutcheon with recessed adjustment up to 5/8 in. (15,9 mm) from the flush pendent position.
- A two-piece Style 20 Recessed Escutcheon with recessed adjustment up to 1/2 in. (12,7 mm) from the flush pendent position.

The adjustment provided by the Recessed Escutcheon reduces the accuracy to which the fixed pipe drops to the sprinklers must be cut.

Intermediate level versions of Series TY-FRB Sprinklers are described in Technical Data Sheet TFP357. Sprinkler guards and shields are described in Technical Data Sheet TFP780.

IMPORTANT

Refer to Technical Data Sheet TFP2300 for warnings pertaining to regulatory and health information.

Always refer to Technical Data Sheet TFP700 for the "INSTALLER WARNING" that provides cautions with respect to handling and installation of sprinkler systems and components. Improper handling and installation can permanently damage a sprinkler system or its components and cause the sprinkler to fail to operate in a fire situation or cause it to operate prematurely.

NOTICE

The TYCO Series TY-FRB Sprinklers described herein must be installed and maintained in compliance with this document, as well as with the applicable standards of the National Fire Protection Association, in addition to the standards of any other authorities having jurisdiction. Failure to do so may impair the performance of these devices.

The owner is responsible for maintaining their fire protection system and devices in proper operating condition. Contact the installing contractor or product manufacturer with any questions.

Sprinkler Identification Number (SIN)

TY313 . . . Upright 5.6K, 1/2 in. NPT
TY323 . . . Pendent 5.6K, 1/2 in. NPT

Technical Data

Approvals
Refer to Table A

Maximum Working Pressure
175 psi (12.1 bar)
250 psi (17.2 bar)*

* The maximum working pressure of 250 psi (17.2 bar) only applies to the listing by Underwriters Laboratories, Inc. (UL).

Discharge Coefficient
K=5.6 GPM/psi^{1/2} (80,6 LPM/bar^{1/2})

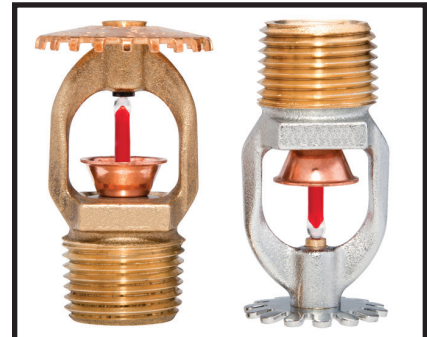
Temperature Rating
Refer to Table A

Finishes
Sprinkler: Refer to Table B

Recessed Escutcheon: White Coated, Black Coated, Chrome Plated, or Brass Plated

Physical Characteristics

Frame	Bronze
Button	Brass/Copper
Sealing Assembly	Stainless Steel w/TEFLON
Bulb	Glass
Compression Screw	Bronze
Deflector	Bronze

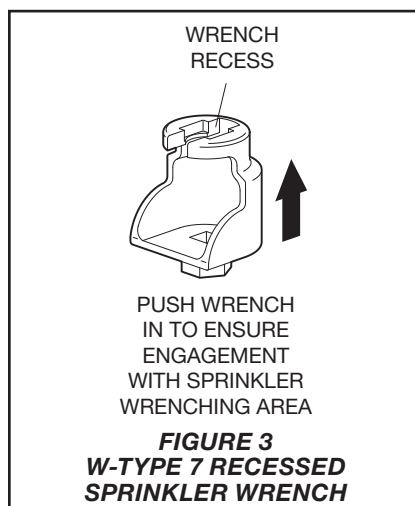
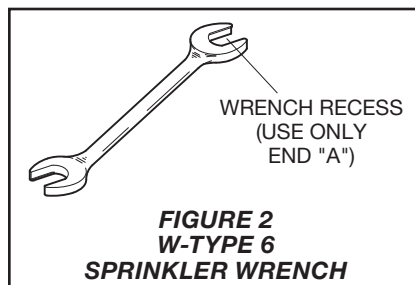
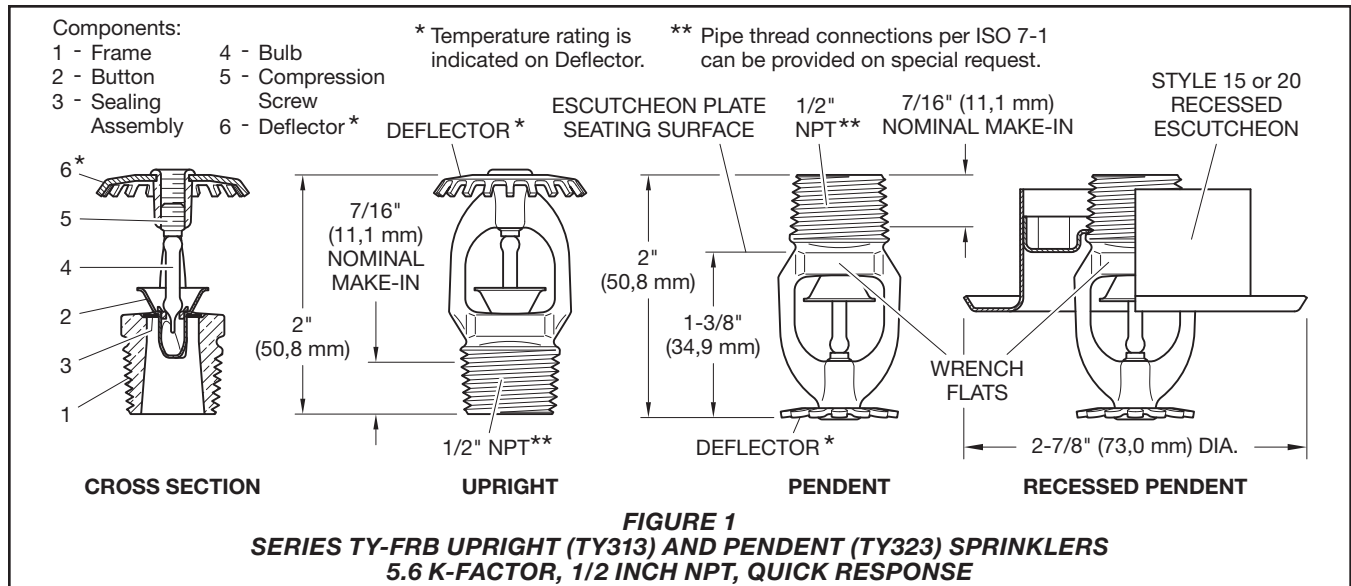


Operation

The glass bulb contains a fluid which expands when exposed to heat. When the rated temperature is reached, the fluid expands sufficiently to shatter the glass bulb, allowing the sprinkler to activate and water to flow.

Design Criteria

The TYCO Series TY-FRB, 5.6 K-factor, Upright (TY313) and Pendent (TY323) Sprinklers are intended for fire protection systems designed in accordance with the standard installation rules recognized by the applicable Listing or Approval agency (such as, UL Listing is based on the requirements of NFPA 13, and FM Approval is based on the requirements of FM's Loss Prevention Data Sheets). Only the Style 15 or Style 20 Recessed Escutcheon is to be used for recessed pendent installations.



Installation

The TYCO Series TY-FRB, 5.6 K-factor, Upright (TY313) and Pendent (TY323) Sprinklers must be installed in accordance with this section.

General Instructions

Do not install any bulb-type sprinkler if the bulb is cracked or there is a loss of liquid from the bulb. With the sprinkler held horizontally, a small air bubble should be present. The diameter of the air bubble is approximately 1/16 in. (1,6 mm) for the 135°F (57°C) and 3/32 in. (2,4 mm) for the 286°F (141°C) temperature ratings.

A leak-tight 1/2 in. NPT sprinkler joint should be obtained by applying a minimum to maximum torque of 7 to 14 lb-ft (9,5 to 19,0 N·m). Higher levels of torque can distort the sprinkler Inlet with consequent leakage or impairment of the sprinkler.

Do not attempt to compensate for insufficient adjustment in the Escutcheon Plate by under- or over-tightening the sprinkler. Re-adjust the position of the sprinkler fitting to suit.

Upright and Pendent Sprinklers

The Series TY-FRB Upright and Pendent Sprinklers must be installed in accordance with the following instructions.

Step 1. Install Pendent sprinklers in the pendent position. Install upright sprinklers in the upright position.

Step 2. With pipe-thread sealant applied to the pipe threads, hand-tighten the sprinkler into the sprinkler fitting.

Step 3. Tighten the sprinkler into the sprinkler fitting using only the W-Type 6 Sprinkler Wrench (Figure 2). With reference to Figure 1, apply the W-Type 6 Sprinkler Wrench to the wrench flats. Torque sprinklers 7 to 14 lb-ft (9,5 to 19,0 N·m).

Recessed Pendent Sprinklers

The Series TY-FRB Recessed Pendent Sprinklers must be installed in accordance with the following instructions.

Step A. After installing the Style 15 or Style 20 Mounting Plate over the sprinkler threads, and with pipe-thread sealant applied to the pipe threads, hand-tighten the sprinkler into the sprinkler fitting.

Step B. Tighten the sprinkler into the sprinkler fitting using only the W-Type 7 Recessed Sprinkler Wrench (Figure 3). With reference to Figure 1, apply the W-Type 7 Recessed Sprinkler Wrench to the sprinkler wrench flats. Torque sprinklers 7 to 14 lb-ft (9,5 to 19,0 N·m).

Step C. After ceiling installation and finishing, slide on the Style 15 or Style 20 Closure over the Series TY-FRB Sprinkler and push the Closure over the Mounting Plate until its flange comes in contact with the ceiling.

Care and Maintenance

The TYCO Series TY-FRB, 5.6 K-factor, Upright (TY313) and Pendent (TY323) Sprinklers must be maintained and serviced in accordance with this section.

Before closing a fire protection system main control valve for maintenance work on the fire protection system that it controls, obtain permission to shut down the affected fire protection systems from the proper authorities and notify all personnel who may be affected by this action.

Absence of the outer piece of an escutcheon, which is used to cover a clearance hole, can delay sprinkler operation in a fire situation.

The owner must assure that the sprinklers are not used for hanging any objects and that the sprinklers are only cleaned by means of gently dusting with a feather duster; otherwise, non-operation in the event of a fire or inadvertent operation may result.

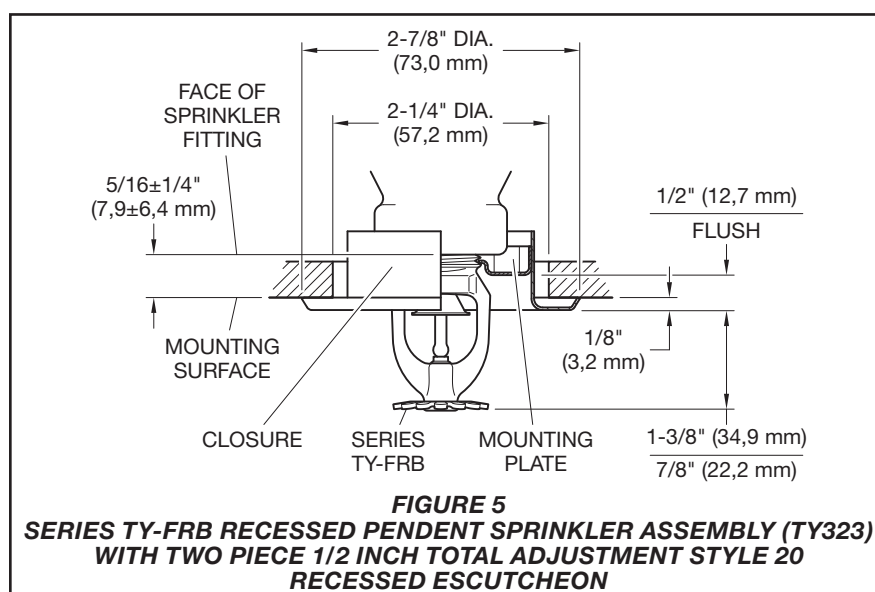
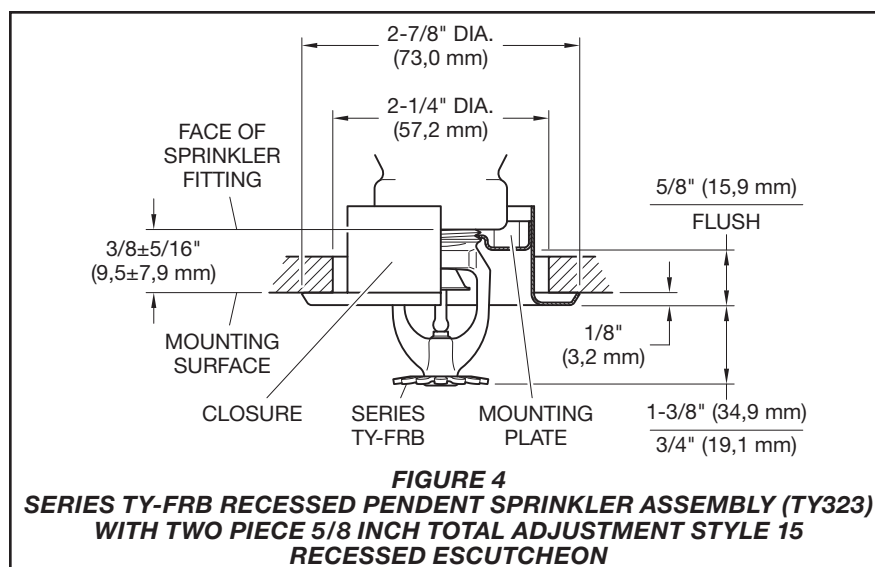
Sprinklers which are found to be leaking or exhibiting visible signs of corrosion must be replaced.

Automatic sprinklers must never be painted, plated, coated, or otherwise altered after leaving the factory. Modified sprinklers must be replaced. Sprinklers that have been exposed to corrosive products of combustion, but have not operated, should be replaced if they cannot be completely cleaned by wiping the sprinkler with a cloth or by brushing it with a soft bristle brush.

Care must be exercised to avoid damage to the sprinklers before, during, and after installation. Sprinklers damaged by dropping, striking, wrench twist/slippage, or the like, must be replaced. Also, replace any sprinkler that has a cracked bulb or that has lost liquid from its bulb. (Ref. Installation Section.)

The owner is responsible for the inspection, testing, and maintenance of their fire protection system and devices in compliance with this document, as well as with the applicable standards of the National Fire Protection Association (e.g., NFPA 25), in addition to the standards of any other authorities having jurisdiction. Contact the installing contractor or product manufacturer with any questions.

Automatic sprinkler systems are recommended to be inspected, tested, and maintained by a qualified Inspection Service in accordance with local requirements and/or national codes.



Limited Warranty

For warranty terms and conditions, visit www.tyco-fire.com.

Ordering Procedure

Contact your local distributor for availability. When placing an order, indicate the full product name and Part Number (P/N).

Sprinkler Assemblies with NPT Thread Connections

Specify: Series TY-FRB Upright or Pendent (specify) Sprinkler, SIN (specify), K=5.6, Quick Response, (specify) temperature rating, (specify) finish, P/N (specify, refer to Table A).

Recessed Escutcheon

Specify: Style 15 Recessed Escutcheon with (specify*) finish, P/N (specify*)

Specify: Style 20 Recessed Escutcheon with (specify*) finish, P/N (specify*)

* Refer to Technical Data Sheet TFP770

Sprinkler Wrench

Specify: W-Type 6 Sprinkler Wrench, P/N 56-000-6-387

Specify: W-Type 7 Sprinkler Wrench, P/N 56-850-4-001

K FACTOR	TYPE	TEMPERATURE	SPRINKLER FINISH (See Note 7)			
			BULB LIQUID COLOR	NATURAL BRASS	CHROME PLATED	POLYESTER ^c
5.6 1/2 in. NPT	UPRIGHT (TY313) and PENDENT (TY323)	135°F (57°C)	Orange	1, 2, 3, 4, 5, 6		
		155°F (68°C)	Red			
		175°F (79°C)	Yellow			
		200°F (93°C)	Green			
		286°F (141°C)	Blue			
	RECESSED PENDENT (TY323) Figures 4 ^a and 5 ^b	135°F (57°C)	Orange	1, 2, 3, 4		
		155°F (68°C)	Red			
		175°F (79°C)	Yellow			
		200°F (93°C)	Green			

Notes:

1. Listed by Underwriters Laboratories, Inc., (UL) as Quick Response Sprinklers.
2. Listed by Underwriters Laboratories, Inc., for use in Canada (C-UL) as Quick Response Sprinklers.
3. Approved by Factory Mutual Research Corporation (FM) as Quick Response Sprinklers.
4. Approved by the City of New York under MEA 354-01-E.
5. VdS Approved (For details, contact Johnson Controls, Enschede, Netherlands, Tel. 31-53-428-4444/Fax 31-54-428-3377.)
6. Approved by the Loss Prevention Certification Board (LPCB Ref. No. 094a/06) as Quick Response Sprinklers.
7. Where Polyester Coated Sprinklers are noted to be UL and C-UL Listed, the sprinklers are UL and C-UL Listed as Corrosion-Resistant Sprinklers.
- a. Installed with Style 15 (1/2 in. NPT) 5/8 in. Total Adjustment Recessed Escutcheon, as applicable.
- b. Installed with Style 20 (1/2 in. NPT) 1/2 in. Total Adjustment Recessed Escutcheon, as applicable.
- c. Frame and Deflector only. Listings and approvals apply to color (Special Order).

TABLE A
LABORATORY LISTINGS AND APPROVALS FOR
5.6 K-FACTOR SPRINKLERS

P/N ^a 77 – XXX – X – XXX			SPRINKLER FINISH		TEMPERATURE RATINGS	
		SIN				
370	5.6K UPRIGHT (1/2 in.NPT)	TY313	1	NATURAL BRASS	135	135°F (57°C)
371	5.6K PENDENT (1/2 in.NPT)	TY323	3	PURE WHITE (RAL9010) ^a POLYESTER	155	155°F (68°C)
			4	SIGNAL WHITE (RAL9003) POLYESTER	175	175°F (79°C)
			5	JET BLACK (RAL9005) POLYESTER	200	200°F (93°C)
			9	CHROME PLATED	286	286°F (141°C)

Notes:

- a. Use suffix "I" for ISO 7-1 connection; for example, 77-370-4-175-I

Notes:

- a. Eastern Hemisphere sales only

TABLE B
SERIES TY-FRB UPRIGHT AND PENDENT SPRINKLERS
PART NUMBER SELECTION