e-Permitting

miamidade.gov

FIRE DEPARTMENT PERMIT AND INSPECTION RECORD 12/17/2025
MUNICIPAL NO.2026-015965 FOLIO: 3220240110010
JOB SITE ADDRESS 14201 NW 60 AVE
PROPOSED USE WAREHOUSE/STORAGE
LEGAL 24 52 40 10.00 AC M/L MIAMI LAKES IND PARK SEC 3
APPLICATION TYPE ALTER INTERIOR 0 SQFT 0 UNITS 0 FLOORS
OWNER NAME CORDIS US CORP
CONTRACTOR AMERICAN FIRE SPRINKLER SERVICES LLC
QUALIFIER OWEIS OMAR
PERMIT TYPE FIRE
CATEGORIES 0032 FIRE SPRINKLERS

DATE: 12/17/2025 PROCESS NUMBER: M2026003985 NEW *AMOUNT PAID 634.26
FIRE 13750 ALTERATIONS 145.82 FIRE 1 SPRINKLER UPF 187.00
FIRE 50 ROUGH INSP-FI 323.41 FIRE 50 FIRE SUPP TES 352.03
UBS1 1 BLDG 7.5% UPF 5.25 UPMU 70 UPFRONT FEE F 70.00

12/17/2025 15:11 BNZWEB1 182512176681 WEBIPAS 634.26

FIRE DEPARTMENT PERMIT AND INSPECTION RECORD 12/17/2025
MUNICIPAL NO.2026-015965 PROCESS NO. M2026003985 FOLIO: 3220240110010
JOB SITE ADDRESS 14201 NW 60 AVE
PROPOSED USE WAREHOUSE/STORAGE

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	_____	_____

FIRE DEPARTMENT PERMIT AND INSPECTION RECORD 12/17/2025
MUNICIPAL NO.2026-015965 PROCESS NO. M2026003985 FOLIO: 3220240110010
JOB SITE ADDRESS 14201 NW 60 AVE
PROPOSED USE WAREHOUSE/STORAGE

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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;

WOLFBERG ALVAREZ
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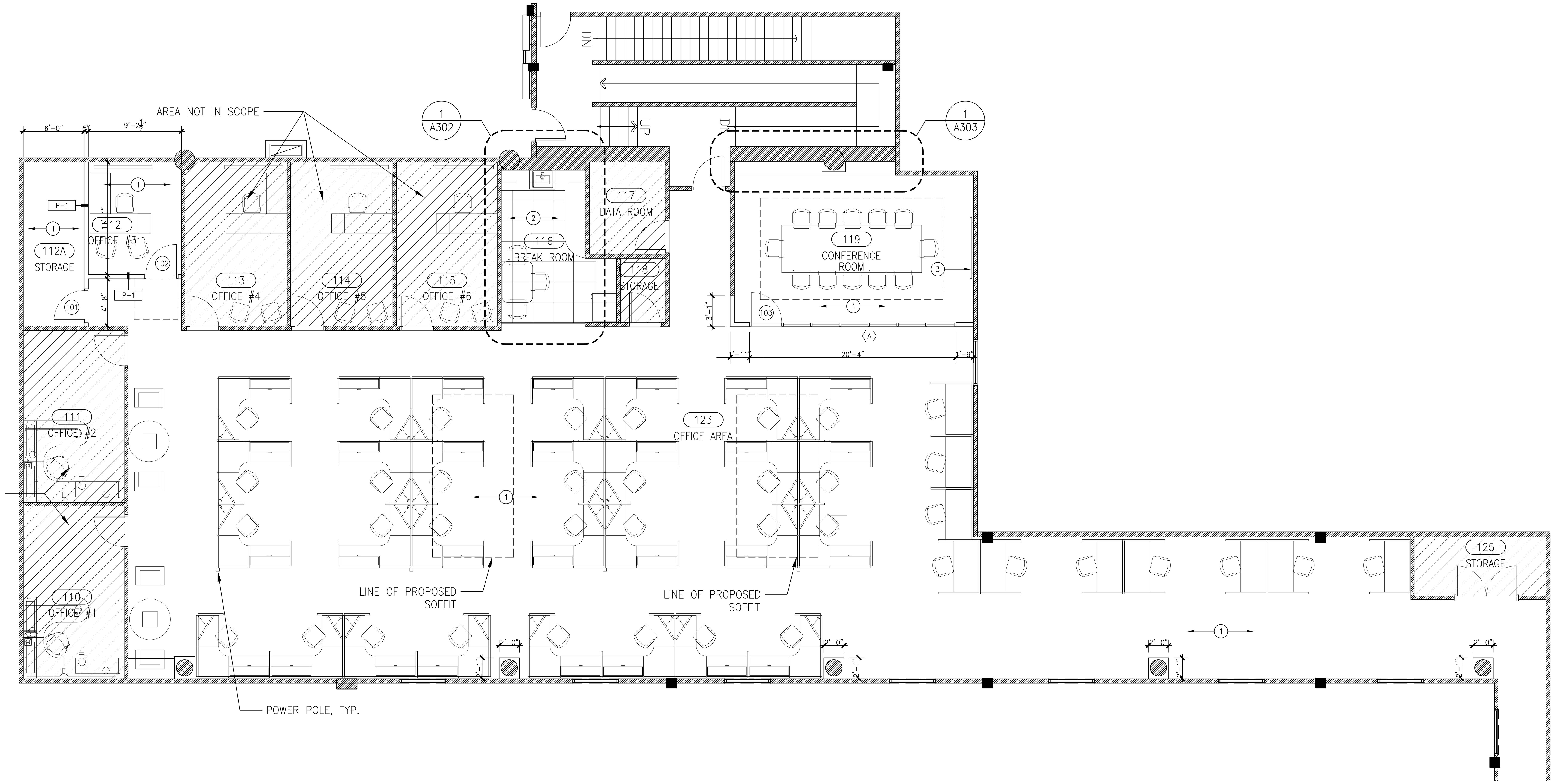
AA 002416 EB 002354

Cordis. GO BEYOND

CORDIS
MEZZANINE REMODELING
14201 N.W. 60th AVENUE
MIAMI LAKES, FLORIDA 33014



1 A301 PROPOSED FLOOR PLAN - BUILDING 8C
SCALE: 3/16"=1'-0"

GENERAL NOTES

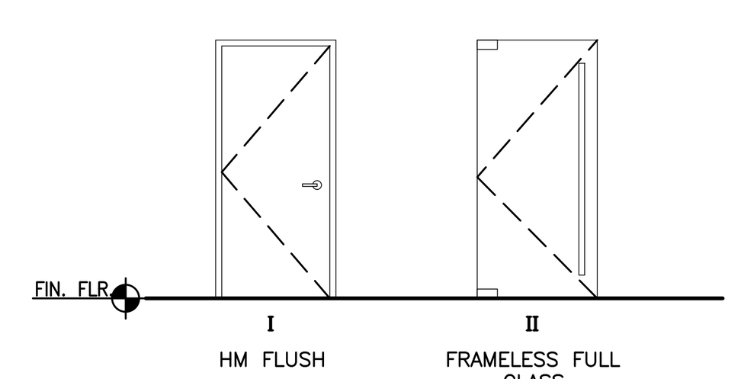
1. NOTIFY THE ARCHITECT OF ANY UNEXPECTED FIELD CONDITION OR ANY DISCREPANCY BEFORE PROCEEDING. GENERAL CONTRACTOR TO COORDINATE COMPLETE SCOPE OF WORK WITH CONSTRUCTION DOCUMENTS.
2. REVIEW LAYOUT FOR CONSTRUCTION WITH OWNER IN FIELD PRIOR TO CONSTRUCTION.
3. PROVIDE STRICT CONTROL OF JOB CLEANING AND PREVENT DUST AND DEBRIS FROM EMANATING FROM CONSTRUCTION AREA.
4. ALL DEBRIS REMOVAL MUST BE PERFORMED IN ACCORDANCE WITH CORDIS REQUIREMENTS AND PROCEDURES. CONTRACTOR TO COORDINATE WITH CORDIS TO OBTAIN THE MOST RECENT REQUIREMENTS FOR DEBRIS REMOVAL.
5. DIMENSIONS ARE FROM FINISHED FACE OF WALL, U.O.N.
6. DRAWINGS ARE NOT TO BE SCALED. VERIFY ANY MISSING OR CONFLICTING WRITTEN DIMENSIONS WITH THE ARCHITECT / DESIGNER PRIOR TO CONSTRUCTION.
7. SYSTEM FURNITURE IS PROVIDED AND INSTALLED BY OWNER. CONTRACTOR TO CONNECT ELECTRICAL SERVICE.

KEY NOTES

1. NEW CARPET TILE AND BASE, MATCH EXISTING
2. NEW PORCELAIN TILE FLOOR
3. RELOCATED TV.
4.
5.

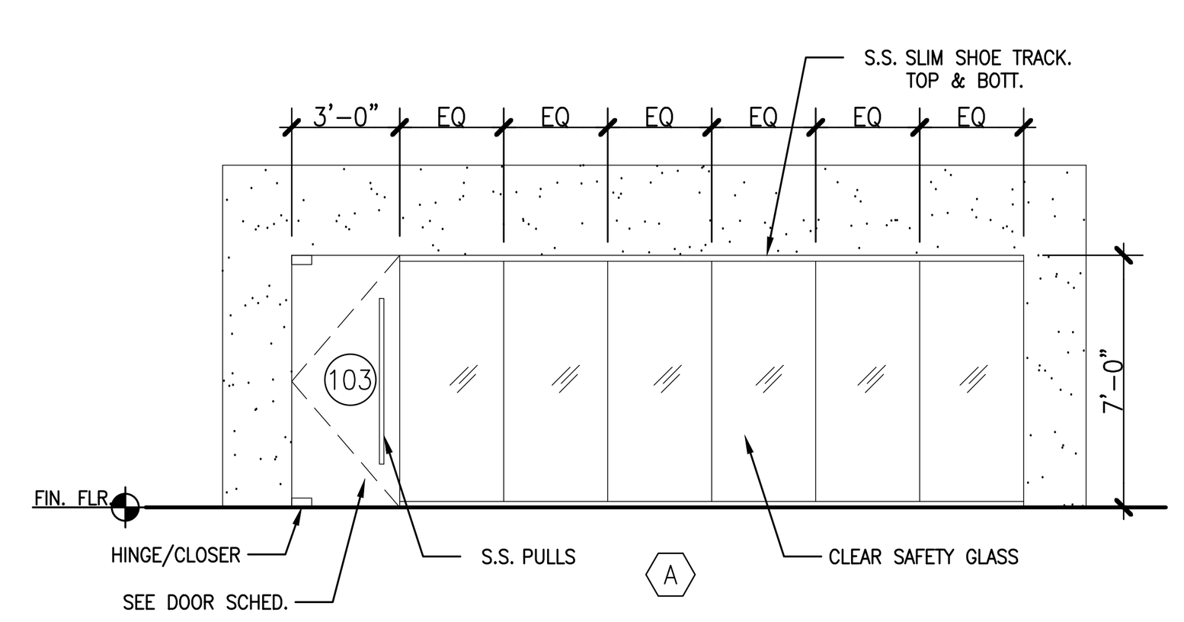
LEGEND

- EXISTING WALL / COLUMN TO REMAIN
- NEW PARTITION WALL



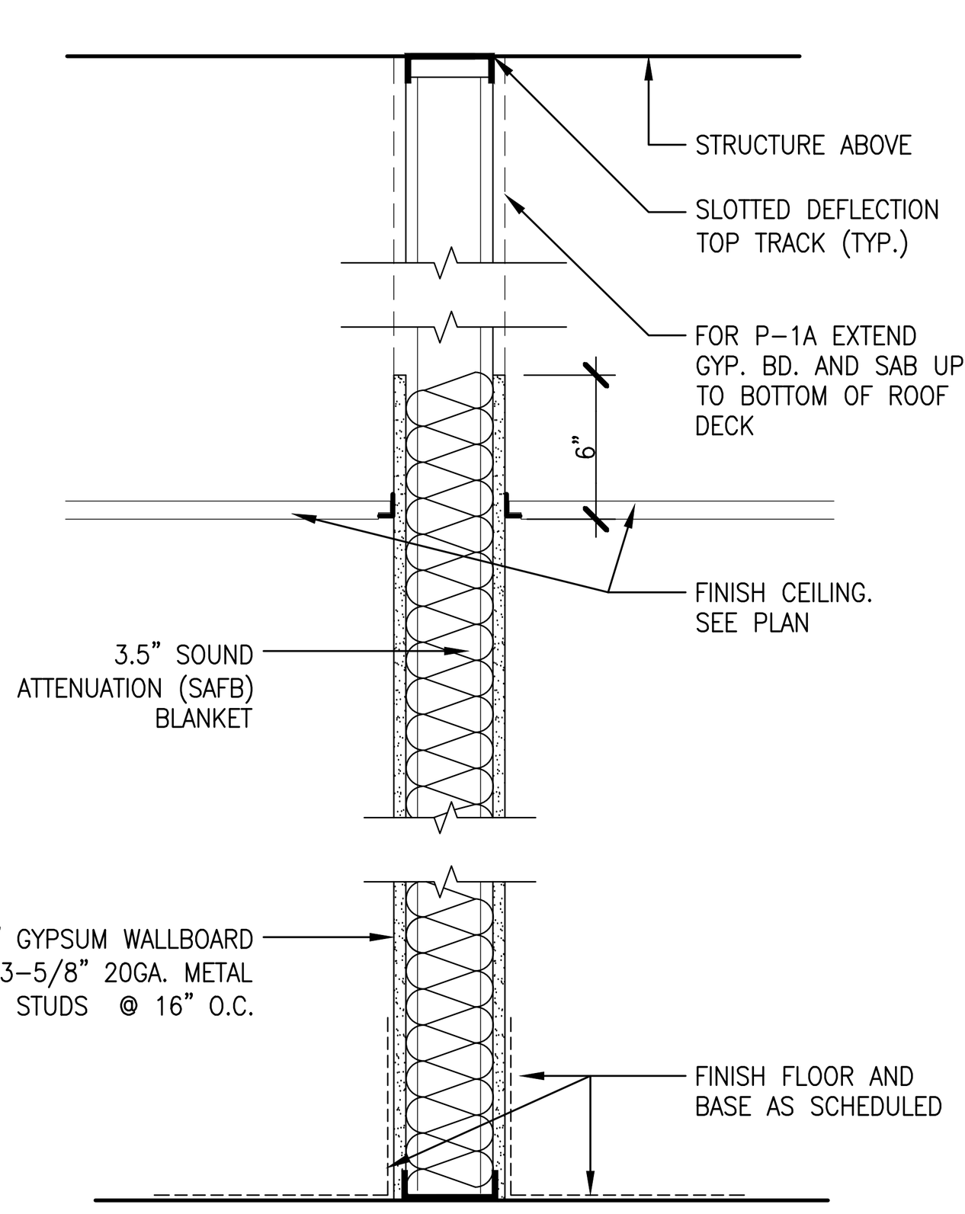
DOOR SCHEDULE

DOOR TYPE				DOOR SIZE			REQUIREMENTS	
MARK	TYPE	MATERIAL	FRAME	WIDTH	HEIGHT	THICK.	LABEL	REMARKS
FIRST FLOOR								
101	I	HM	HM	3'-0"	7'-0"	1¾"	–	
102	I	HM	HM	3'-0"	7'-0"	1¾"	–	
103	II	GL/AL	AL	3'-0"	7-0"	–	–	



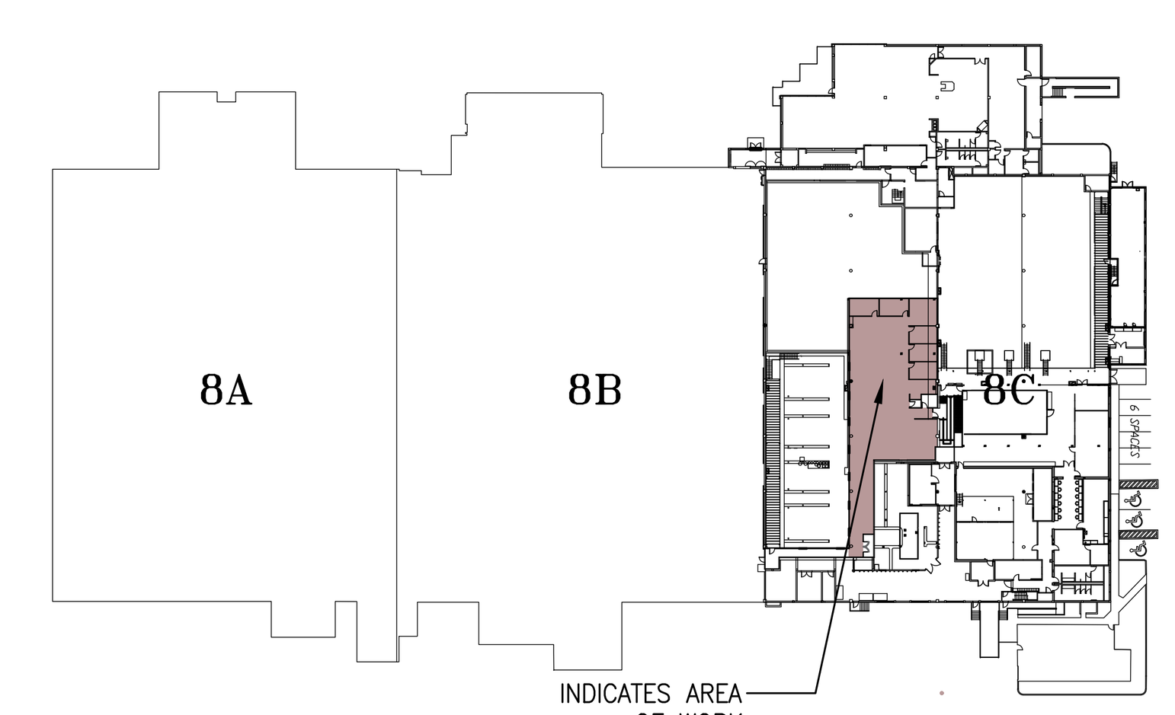
NOTE:

EXTEND FULL PARTITION UP TO ROOF STRUCTURE, SEE P-1A



P-1 AS SHOWN

P-1A SAME AS P1, EXCEPT UP TO ROOF STRUC.



KEY PLAN
SCALE: N.T.S.

This item has been digitally signed & sealed by Marcel R Morlote, R.A. Printed copies of this document are not considered signed & sealed and the signature must be verified on any electronic copies.

SEAL

REGISTERED ARCHITECT 9564 ★ LIC INTERIOR DESIGNER 3655 ★ MARCEL R. MORLOTE ... STATE OF FLORIDA

MARCEL R. MORLOTE, A.I.A.
FL. ARCHITECT
FL. ARCH. REG. NO. 9564

WA PROJECT NO.: 22408.00

ISSUE DATE
03/23/25

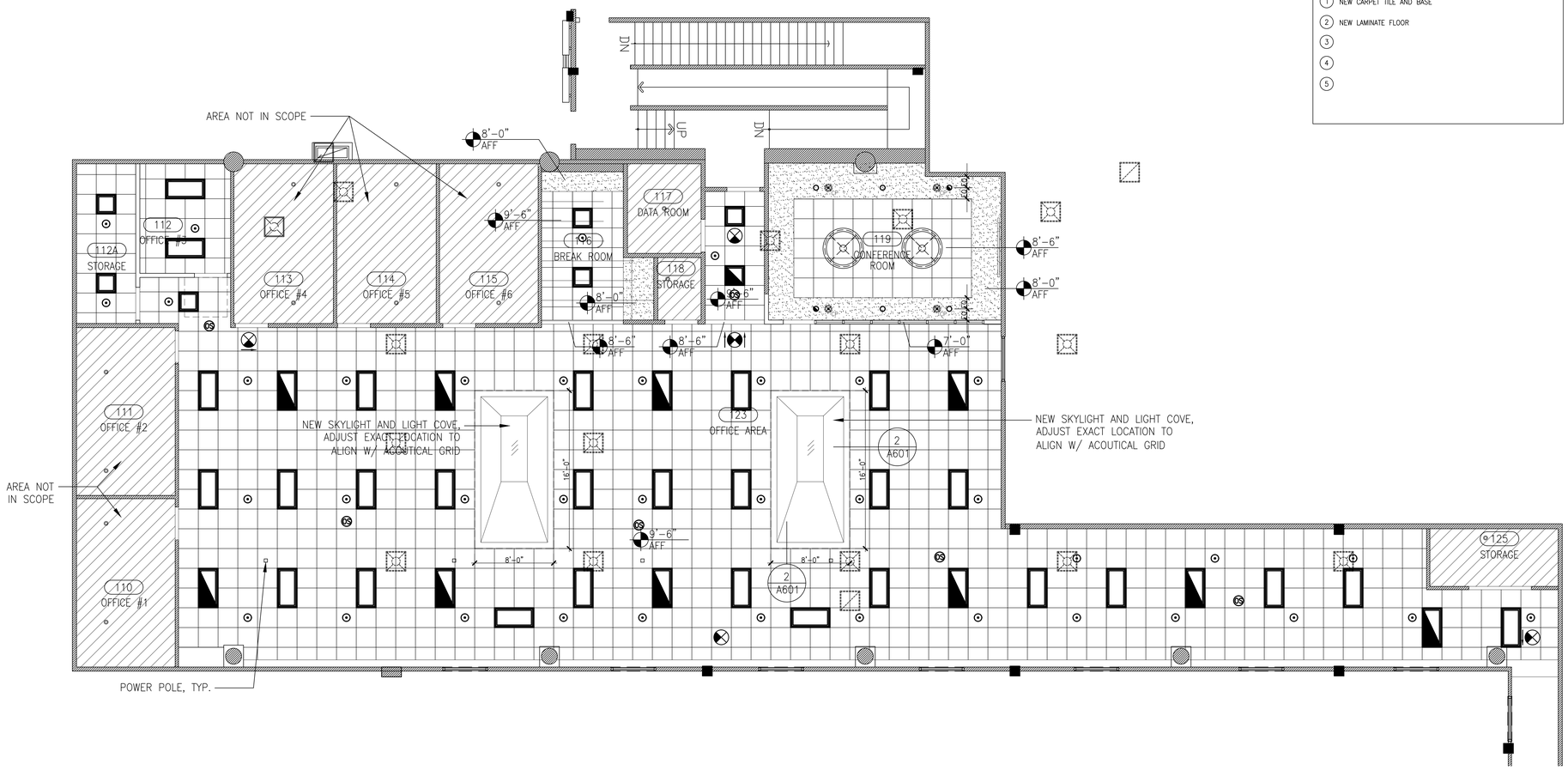
NO.	REVISION DATE

DRAWING TITLE
PROPOSED FLOOR PLAN AND EQUIPMENT LAYOUT

SHEET NUMBER
A301

P:\Cordis Building 8C Mezzanine Remodeling 2025\Drawings\01 Architecture\A301-MRP2.dwg Mar 21, 2025 - 9:51am JOSET

To the best of the Architect's or Engineer's knowledge, the plans and specifications comply with the applicable minimum building codes and the applicable fire-safety standards as determined by the local authority in accordance with F.B.C. section 110.8.4.4 and Chapter 633, Florida Statutes.



1 A601 PROPOSED REFLECTED CEILING PLAN – BUILDING 8C
SCALE:3/16"=1'-0"

KEY NOTES

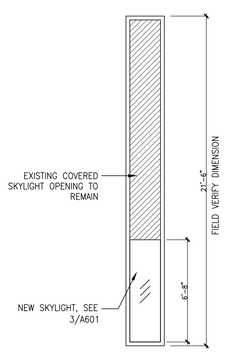
1. NEW CARPET TILE AND BASE
2. NEW LAMINATE FLOOR
3.
4.
5.

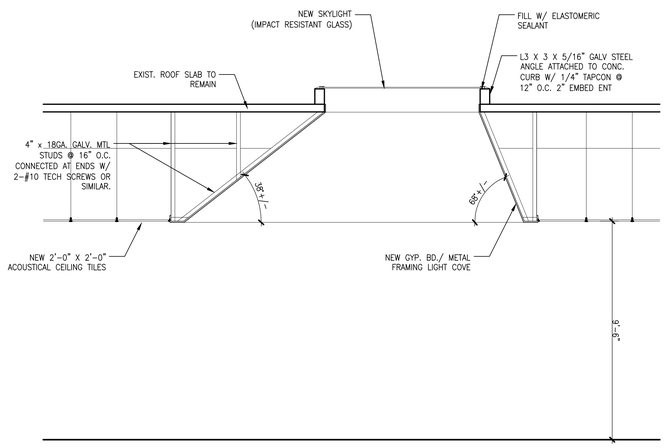
REFLECTED CEILING LEGEND

- SUSPENDED ACOUSTICAL CEILING (2' x 2' GRID SYSTEM W/ ACOUSTICAL TILE)
- NEW PAINTED DRYWALL SOFFIT W/ METAL FRAMING
- 2' x 4' CEILING MOUNTED RECESSED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- DECORATIVE PENDANT LIGHT FIXTURE (CONFERENCE ROOM)
- EXIT SIGN – CEILING MOUNTED
- EXIT SIGN – WALL MOUNTED
- 24"x 24" SUPPLY OR FRESH AIR DIFFUSER COLOR WHITE
- 24"x 24" EXHAUST OR RETURN AIR COLOR WHITE
- OS — OCCUPANCY SENSOR
- ? — SMOKE DETECTOR – CEILING MOUNTED
- S — SPEAKER – CEILING MOUNTED
- FIRE SPRINKLER HEAD UPRIGHT
- FIRE SPRINKLER HEAD RECESSED
- WI–FI ACCESS POINT– SEE ELECTRICAL DRAWINGS
- FIXED CAMERA
- PAN/ TILT/ ZOOM CAMERA
- X'–XX" A.F.F. — INDICATES FINISH, CEILING ELEVATION, FROM FINISH FLOOR

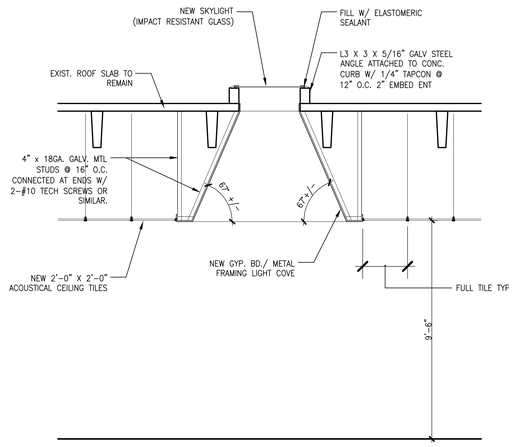
REFLECTED CEILING NOTES

1. COORDINATE ALL CEILING FIXTURES SHOWN ON REFLECTED CEILING PLAN WITH MECHANICAL, ELECTRICAL AND FIRE PROTECTION DRAWINGS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION BEFORE PROCEEDING WITH THE WORK.
2. FOR FIXTURE AND/OR DEVICE TYPE AND SPECIFICATIONS, SEE MECHANICAL, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR DETAILS.
3. LIGHTS NOT DIMENSIONED SHALL BE CENTERED WITHIN ROOM.
4. SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF THE TILE OR IN ℄ W/ LIGHT FIXTURES IN GYP. BD. INSTALLATIONS. REFER TO FIRE PROTECTION DWGS.
5. REFER TO FLOOR PLANS FOR RM. NAMES & RM. NUMBERS.
6. CEILING GRID SHALL BE CENTERED IN ROOM UNLESS OTHERWISE NOTED OR ILLUSTRATED.
7. FOR SUSPENDED FIXTURES SEE ELECTRICAL DRAWINGS FOR MOUNTING HEIGHT
8. PROVIDE ACCESS PANEL (GYP. DB. CEILING) FOR PLUMBING AND FIRE PROTECTION VALVES LOCATIONS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING EXISTING SERVICES TO FACILITATE INSTALLATION ON NEW CEILING.

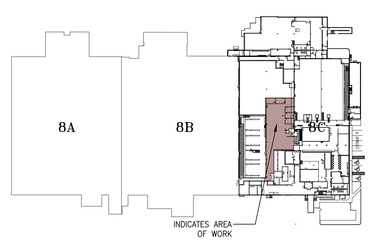




2 A601 SECTION DETAIL–1
SCALE:3/8"=1'-0"



3 A601 SECTION DETAIL–2
SCALE:3/8"=1'-0"



KEY PLAN
SCALE: N.T.S.

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Cordis. GO BEYOND

CORDIS MEZZANINE REMODELING

14201 N.W. 60th AVENUE
MIAMI LAKES, FLORIDA 33014

This item has been digitally signed & sealed by Marcel R Morlote, R.A. Printed copies of this document are not considered signed & sealed and the signature must be verified on any electronic copies.

SEAL — REGISTERED ARCHITECT MARCEL R. MORLOTE STATE OF FLORIDA

MARCEL R. MORLOTE, A.I.A.
FL. ARCHITECT
FL. ARCH. REG. NO. 9584

WA PROJECT NO.: 22408.00

ISSUE DATE
03/23/25

NO.	REVISION DATE

DRAWING TITLE
PROPOSED REFLECTED CEILING PLAN

SHEET NUMBER
A601

D:\Cordis Building 8C Mezzanine Remodeling 2025\Drawings\CD\Architecture\A601 - MRP7.dwg May 21, 2025 - 9:50am JOSET

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
3226003985 - 12/17/2025 3:12:04 PM
A-601.pdf
Examiner Date Time Stamp Trade Stamp Name
CARRIER, KEVIN 12/9/2025 8:26:35 PM FIRE Reference Only.

Miami-Dade Department of Regulatory and Economic Resources

CONTACT INFORMATION FOR PERMIT APPLICATION

FIRST NAME *(print clearly)*	LAST NAME *(print clearly)*
MICHAEL	ANANIAN
MOBILE PHONE	**OFFICE/HOME PHONE**
305-628-0100	305-628-0100

EMAIL *(required so you can be notified on the status of your plans)*

MIKE@AMERICANPERMITTING.COM and Permitting@mvfcg.com

COMMENTS (*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.)*

PLANS *(check all that apply)*

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

- ☐ GOV'T PROJECT/DEPT________________________
- ☐ GREEN BLDG* *(new construction only)*
- ☐ 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
☐ DOH/HRS					

OPTIONAL PLAN REVIEWS *(check all that apply)*

☐ BLDG ☐ ELEC ☐ MECH ☐ PLUM ☐ STRU

OPR DERM <u>INITIAL</u> REVIEWS *(check all that apply)*

☐ DERM CORE ☐ DERM SPECIALTY *(You will be notified after core review is complete for additional fees)*

OPR DERM <u>REWORK</u> *(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

CORDIS
BUILDING 8C MEZZANINE REMODELING
PHASE 2

14201 N.W. 60th AVENUE
MIAMI LAKES, FLORIDA 33014

WOLFBERG ALVAREZ
& PARTNERS INC

5757 WATERFORD DISTRICT
DRIVE, SUITE 300
MIAMI, FLORIDA 33126
V 305.666.5474
WOLFBERGALVAREZ.COM

INDEX OF DRAWINGS

SHEET	DESCRIPTION	03/24/2025 PERMIT SET
	GENERAL	
A0.00	COVER SHEET	●
	LIFE SAFETY	
LS201	LIFE SAFETY PLAN - BUILDING 8C	●
	ARCHITECTURAL	
DA301	DEMOLITION FLOOR PLAN	●
DA601	EXISTING REFLECTED CEILING PLAN	●
A301	PROPOSED FLOOR PLAN	●
A302	MILLWORK DETAILS	●
A303	MILLWORK DETAILS	●
A601	PROPOSED REFLECTED CEILING PLAN	●
	PLUMBING	
P301	DEMOLITION & PROPOSED PLUMBING PLANS	●
	FIRE PROTECTION	
FP301	FIRE PROTECTION PLANS, NOTES & DETAILS	●
	MECHANICAL	
M101	LEGEND, NOTES & DETAILS	●
M301	DEMOLITION & PROPOSED HVAC PLANS	●
	ELECTRICAL	
E001	LEGEND & ELECTRICAL NOTES	●
DE301	LIGHTING DEMOLITION PLAN - BUILDING 8C	●
DE401	ELECTRICAL DEMOLITION PLAN - BUILDING 8C	●
E301	LIGHTING PLAN	●
E401	ELECTRICAL PLAN	●
E701	POWER RISER DIAGRAM	●

FLEXHEAD INDUSTRIES

c UL us LISTED · FM APPROVED · LPCB · FBC SYSTEM COMPATIBLE

Installation Of Flexhead Commercial Sprinkler System

1. **Mounting Bracket Assembly M#: MP-24-BKT-2**
   Remove one (1) 3/8" bolt and one (1) ¼" bolt from hardware bag in box. Remove (1) universal hub and one (1) mounting bracket from box. Thread the 3/8" bolt through side of universal hub. Select one (1) of the four (4) sprinkler port locations on mounting bracket.


1a

   A. Insert tab of universal hub into slot on mounting bracket as shown. **(Photo 1a)**
   B. Flip bracket over and insert and tighten ¼" attachment bolt thru pre-punched hole in bracket until tight as shown. **(Photo 1b)**


1b

2. **Attach Mounting Bracket to T-bar Suspended Ceiling Grid.**
   Note: These products are designed for use with Intermediate or Heavy Duty ceiling grids manufactured to ASTM C 635 *(Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings)* and ASTM C 636 *(Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels)* Designation.

   A. From above the ceiling, position FlexHead Mounting Bracket ends on to T-bar grid so that the center hole in support bracket aligns directly above the sprinkler hole prepared in ceiling tile. Be sure the center section of the bracket end is on the outside of grid and base section is on the inside. Position the ends of the support bracket on the T-bar grid and push each of the two (2) ends of the bracket down to snap in place as shown. **(Photo 2)**


2

3. **Anchor Bracket to T-bar Grid**

   A. Anchor bracket to t-bar grid with self tapping screw through bottom hole in bracket end into grid. Be sure to install self taping screw in lower hole of bracket end with attachment clip as shown. Repeat process on opposite end of bracket. Both ends of bracket should be anchored as shown. **(Photo 3)**

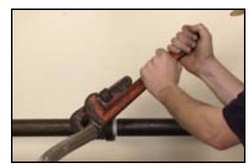

3

4. **Connect FlexHead to Sprinkler Branch-line**

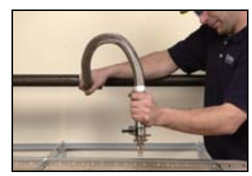
   Apply teflon tape and pipe sealant to one inch (1") threaded end of FlexHead Sprinkler Drop per NFPA guidelines. Attach one inch (1") threaded end of FlexHead Sprinkler Drop to branch-line per NFPA, State and local code guidelines.

   The flexible hose with fitting is only intended to be installed with bends.

   Do not use welded or braided hose section of FlexHead Sprinkler Drop for a wrenching surface.
   Attach FlexHead Sprinkler Drop using rigid pipe end of units as wrenching surface as shown. (Photo 4)


4

5. **Secure FlexHead Sprinkler Drop to Mounting Bracket and install Sprinkler Head.**
   A. Bend the Flexhead to hold its desired position. **Do not overbend the flexible hose. FlexHead has a 3" (75mm) minimum bend radius.** Insert reducing coupling end of FlexHead Sprinkler Drop through center hole in previously installed support bracket and hole in ceiling tile. Make sure the hose is bent sufficiently so that the reducing coupling sits perfectly vertical in center hole of support bracket. Do not torque or twist FlexHead during installation process**. (Photo 5a)**

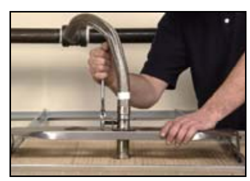

5a

   B. Attach sprinkler head, properly prepared with teflon tape and sealant to FlexHead Sprinkler Drop according to NFPA and sprinkler head manufacturer's guidelines. **(Photo 5b)**


5b

   C. Adjust FlexHead Sprinkler height to accommodate type of sprinkler head. When sprinkler head is in desired location, tighten the fastening bolt on center hub of support bracket by turning clockwise hand tight plus 1 turn (100 inch lbs) with wrench as shown. After tightening the bolt, tighten the nut hand tight plus 1 turn (100 inch lbs) with wrench. **(Photo 5c)**

6**. Installation of the FlexHead Ceiling Sprinkler System is complete.**
   *Test installation of sprinkler system for any leaks per NFPA Guidelines.
   *Install sprinkler escutcheon from below ceiling per manufacturers guidelines**.**


5c

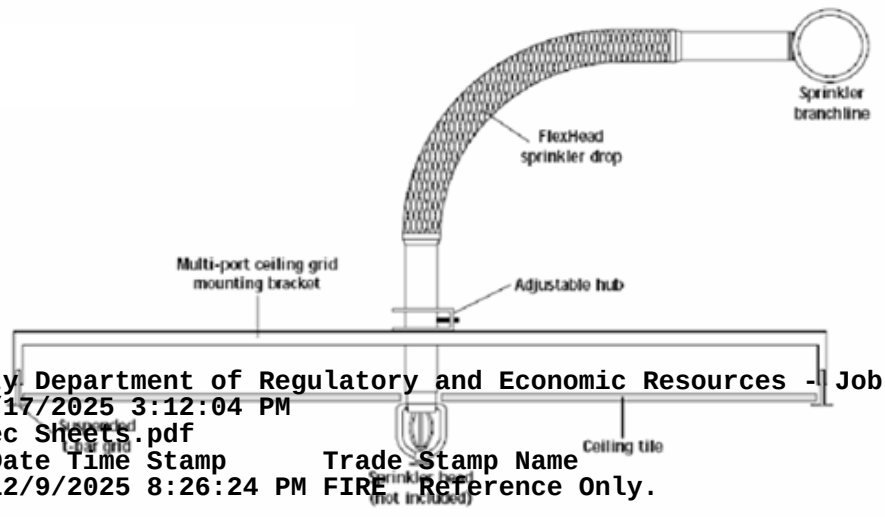
Flexhead Industries, Inc.
56 Lowland Street
Holliston, MA 01746
Tel 800-829-6975 / 508-893-9596
Fax 508-893-6020 / www.flexhead.com

FlexHead Friction Loss Data

FRICTION LOSS

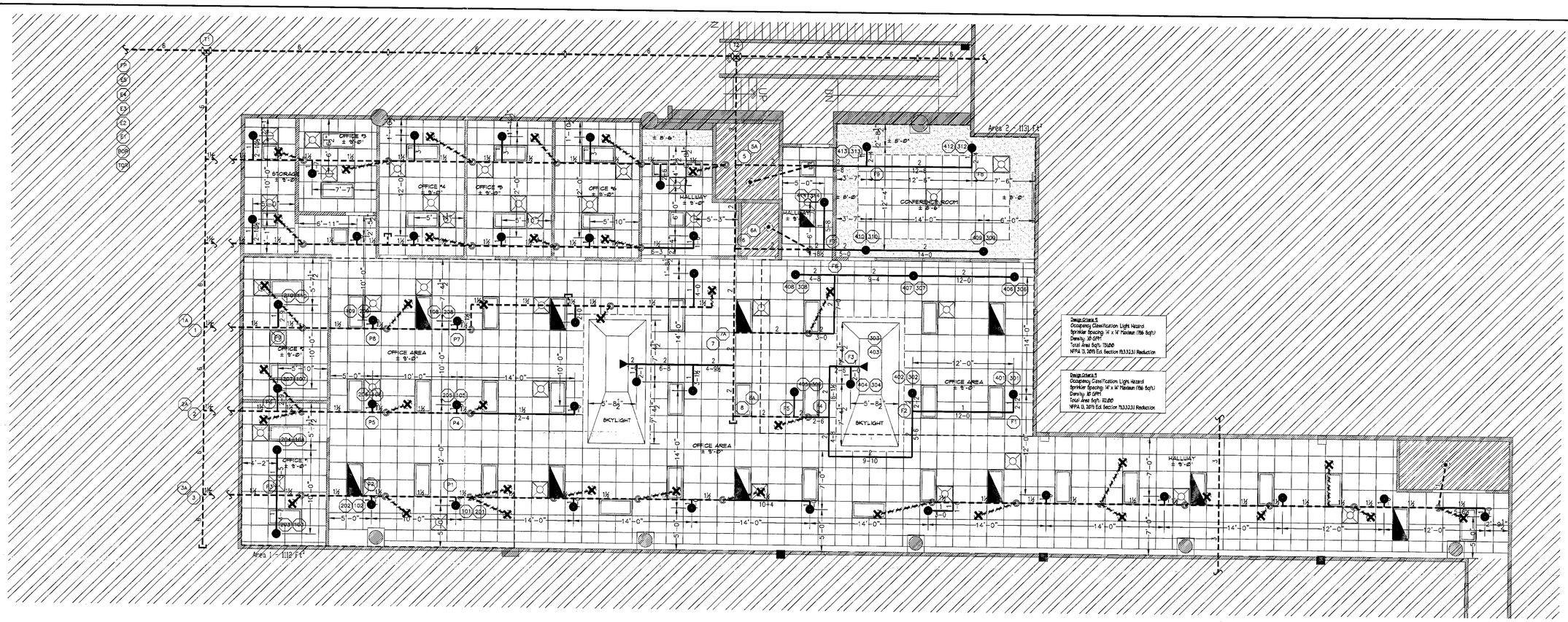
Flexhead Model #	Outlet Size in (cm)	Hose Assembly Length Ft (m)	Maximum Number of 90-Degree Bends (3 in. Bending Radius)	Maximum Equivalent Length of Schedule 40, Nominal 1 in Diameter Pipe (C=120), ft	Maximum Ambient Temperature Rating F (C)	Maximum Rated Pressure H-Series psi (kPa) / psi (kPa)	Maximum K-factor & Orifice of Sprinkler K-factor/ orifice
2024, 2024H	1/2 (1.27)	2 (0.6)	3	11	300º (148º)	175 (1205) / 300 (2068)	5.62 / 1/2"
2036, 2036H	1/2 (1.27)	3 (0.9)	3	16	300º (148º)	175 (1205) / 300 (2068)	5.62 / 1/2"
2048, 2048H	1/2 (1.27)	4 (1.2)	4	24	300º (148º)	175 (1205) / 300 (2068)	5.62 / 1/2"
2060, 2060H	1/2 (1.27)	5 (1.5)	4	29	300º (148º)	175 (1205) / 300 (2068)	5.62 / 1/2"
2072, 2072H	1/2 (1.27)	6 (1.8)	4	35	300º (148º)	175 (1205) / 300 (2068)	5.62 / 1/2"
2024, 2024H	3/4 (1.90)	2 (0.6)	3	12	300º (148º)	175 (1205) / 300 (2068)	14.0 / 3/4"
2036, 2036H	3/4 (1.90)	3 (0.9)	3	18	300º (148º)	175 (1205) / 300 (2068)	14.0 / 3/4"
2048, 2048H	3/4 (1.90)	4 (1.2)	4	23	300º (148º)	175 (1205) / 300 (2068)	14.0 / 3/4"
2060, 2060H	3/4 (1.90)	5 (1.5)	4	29	300º (148º)	175 (1205) / 300 (2068)	14.0 / 3/4"
2072, 2072H	3/4 (1.90)	6 (1.8)	4	32	300º (148º)	175 (1205) / 300 (2068)	14.0 / 3/4"
2024E, 2024HE	1/2 (1.27)	2 (0.6)	3	19	300º (148º)	175 (1205) / 300 (2068)	5.62 / 1/2"
2036E, 2036HE	1/2 (1.27)	3 (0.9)	3	23	300º (148º)	175 (1205) / 300 (2068)	5.62 / 1/2"
2048E, 2048HE	1/2 (1.27)	4 (1.2)	4	27	300º (148º)	175 (1205) / 300 (2068)	5.62 / 1/2"
2060E, 2060HE	1/2 (1.27)	5 (1.5)	4	32	300º (148º)	175 (1205) / 300 (2068)	5.62 / 1/2"
2072E, 2072HE	1/2 (1.27)	6 (1.8)	4	35	300º (148º)	175 (1205) / 300 (2068)	5.62 / 1/2"
2024E, 2024HE	3/4 (1.90)	2 (0.6)	3	18	300º (148º)	175 (1205) / 300 (2068)	14.0 / 3/4"
2036E, 2036HE	3/4 (1.90)	3 (0.9)	3	23	300º (148º)	175 (1205) / 300 (2068)	14.0 / 3/4"
2048E, 2048HE	3/4 (1.90)	4 (1.2)	4	23	300º (148º)	175 (1205) / 300 (2068)	14.0 / 3/4"
2060E, 2060HE	3/4 (1.90)	5 (1.5)	4	29	300º (148º)	175 (1205) / 300 (2068)	14.0 / 3/4"
2072E, 2072HE	3/4 (1.90)	6 (1.5)	4	32	300º (148º)	175 (1205) / 300 (2068)	14.0 / 3/4"

- *FlexHead products are intended for use in hydraulically designed wet, pre-action, deluge or dry pipe sprinkler per NFPA 13, 13R, and 13D guidelines.*
- *The hydraulic loss of FlexHead should be included in the hydraulic design calculations the same as a valve or fitting.*
- *Each FlexHead Sprinkler Drop has a 3" minimum bend radius per UL guidelines. FlexHead products are listed to limited flexibility standards and are intended for direct connection to fire sprinklers.*
- *Bracket System MP-24-BKT-2 has a minimum of 6 inch and a maximum of 24 inch spacing requirement for anchoring to the building component.*



FIRE SPRINKLER SYSTEM OFFICE MEZZANINE PLAN

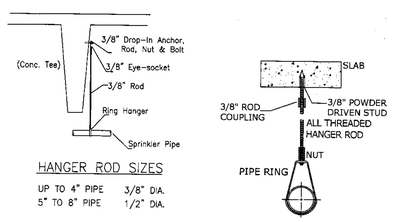
SCALE: 3/16" = 1'-0"



Scope of work:
Existing fully protected building supplied by a fire pump. Relocate and add fire sprinkler heads as shown on plans as needed to obtain proper coverage due to renovations. TOTAL SQFT: 8975.00

Sprinkler Head Schedule

Symbol	Count	Thread	K-Factor	Description	Note	Coverage
●	48	1/2'	5.6	TY3531: (RF-II) QUICK RESPONSE WHITE CONCEALED PENDNET 155° DEGREES	NEW	PER NFPA
✖				EXISTING CHROME RECESSED PENDENT TO BE PLUGGED	EXISTING TO BE PLUGGED/ REMOVED	
◀	2	1/2'	5.6	TY3332: (TY-FRB) QUICK RESPONSE WHITE RECESSED SIDEWALL 200° DEGREES	NEW	PER NFPA
50 = Total Number of Heads On Job						



HANGER ROD SIZES

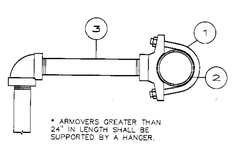
UP TO 4" PIPE 3/8" DIA.
5" TO 8" PIPE 1/2" DIA.

MAXIMUM HANGER SPACING (FT.)								
1	1 1/4	1 1/2	2	2 1/2	3	4	6	8
12	12	12	12	12	12	N/A	N/A	N/A
12	12	15	15	15	15	15	15	15

ALL HANGERS AT CEILING PENDENT END OF LINE SPRINKLERS SHALL PREVENT UPWARD MOVEMENT OF PIPE. HANGERS AT ARMOVERS TO CEILING PENDENT

PIPING SUPPORT DETAILS

NOTE: PIPING SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS ONLY



* ARMOVERS GREATER THAN 24" IN LENGTH SHALL BE SUPPORTED BY A HANGER.

SCHEDULE
1. NEW MECH-TYPE
2. BRANCHLINE/ MAIN
3. ARMOVER.*

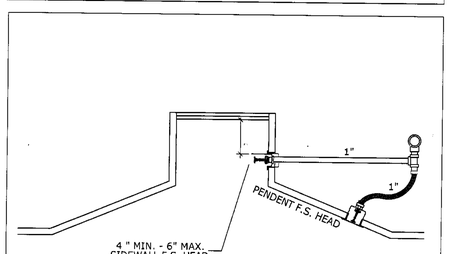
NOTE:
COUPONS TO BE ATTACHED TO ALL NEW MECH TEES.

CONNECTION DETAIL N.T.S.

FLEX HEAD DETAIL N.T.S.

General Notes

1. All piping, heads, hangers, and system components to be spaced and installed in accordance with the approving authority having jurisdiction. All applicable state & local codes, and the latest adopted NFPA standards. (NFPA 13, 2019 Ed.)
2. Aboveground piping 1"-2" to be threaded and/or grooved with screwed or grooved fittings (or approved acceptable equal).
3. Piping to be supported from structural members as shown on plans.
4. Armover piping exceeding 24" in length shall receive a hanger.
5. Fire sprinkler heads to be spaced at 130 sqft per head for ordinary hazard areas (Seating, Restrooms, & Office).
6. Sprinkler heads in areas exposed to corrosive elements shall have a corrosive resistant.
7. Verify all conditions & coordinate with other trades prior to installation.
8. Sprinkler headsa to be positioned with regard to all obstructions (Hvac Ductwork, Lighting, Speakers, Structual Members, etc.)



SKYLIGHT CROSS SECTION DETAIL N.T.S.

FIRE
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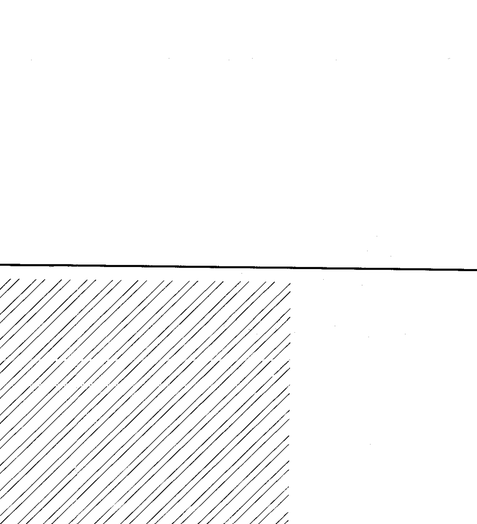
NFPA 13 – 2019 Edition
28.2 Acceptance Requirements.
28.2.1* Hydrostatic Tests.
28.2.1.1 Unless permitted by 28.2.1.3 through 28.2.1.5, all piping and attached appurtenances subjected to system working pressure shall be hydrostatically tested at 200 psi (14 bar) and shall maintain that pressure without loss for 2 hours.
28.2.1.2 Loss shall be determined by a drop in gauge pressure or visual leakage.
28.2.1.3 Portions of systems normally subjected to system working pressures in excess of 150 psi (10 bar) shall be tested as described in 28.2.1.1, at a pressure of 50 psi (3.4 bar) in excess of system working pressure.
28.2.1.4 Where cold weather will not permit testing with water, an interim air test shall be permitted to be conducted as described in 28.2.2. This provision shall not remove or replace the requirement for conducting the hydrostatic test as described in 28.2.1.1.
28.2.1.5* The test pressure shall be read from a gauge located at the low elevation point of the system or portion being tested. The pressures in piping at higher elevations shall be permitted to be less than 200 psi (14 bar) when accounting for elevation losses. Systems or portions of systems that can be isolated shall be permitted to be tested separately.
28.2.1.6* Additives, corrosive chemicals such as sodium silicate, or derivatives of sodium silicate, brine, or similar acting chemicals shall not be used while hydrostatically testing systems or for stopping leaks.
28.2.1.7 Piping between the exterior fire department connection and the check valve in the fire department inlet pipe shall be hydrostatically tested in the same manner as the balance of the system. After repair or replacement work affecting the fire department connection, the piping between the exterior and the check valve in the fire department inlet pipe shall be isolated and hydrostatically tested at 150 psi (10 bar).
28.2.1.8* When systems are being hydrostatically tested, tests shall be permitted to be conducted with pendent or horizontal sidewall sprinklers or plugs installed in fittings. Any plugs shall be replaced with pendent or horizontal sidewall sprinklers after the test is completed.
28.2.1.9 When deluge systems are being hydrostatically tested, plugs shall be installed in fittings and replaced with open sprinklers after the test is completed, or the operating elements of automatic sprinklers shall be removed after the test is completed.
28.2.1.10 Provision shall be made for the proper disposal of water used for flushing or testing.



Florida Statues / Chapter 633 / Fire prevention & control

A person certified under this chapter as a Contractor I or Contractor II may design new fire protection systems of 49 or fewer sprinklers; may design the alteration of an existing fire sprinkler system if the alteration consists of the relocation, addition, or deletion of 49 or fewer sprinklers, notwithstanding the size of the existing fire sprinkler system; or may design the alteration of an existing fire sprinkler system if the alteration consists of the relocation or deletion of 249 or fewer sprinklers, notwithstanding the size of the existing fire sprinkler system. Contractor-developed plans may not be required by any local permitting authority to be sealed by a registered professional engineer.

ROBERT WEINSTEIN LICENSE No 38038 STATE OF FLORIDA PROFESSIONAL ENGINEER

HOLLYWOOD ENGINEERING
ROBERT WEINSTEIN, P.E.
428 S. DIXIE HIGHWAY
HOLLYWOOD, FL 33020
954-240-1917
FL. LIC. # 038038

COMPANY NAME: AMERICAN FIRE SPRINKLER SERVICES, LLC.
3371 N.W. 154th TERRACE
MIAMI GARDENS, FLORIDA 33054
PHONE: 305.628.0100 FAX: 305.628.3556

GEN. CONTRACTOR: SSA CONSTRUCTION CORP
CONTACT: JAVIER LOSADA
PHONE NO.: 305-721-6567
FIELD CONTACT: SAME
PHONE NO.: SAME
ESTIMATE NO.: E79447
ADDITIONAL INFO.:

PROJECT NAME: CORDIS - MEZZANINE OFFICE
14201 NW 60TH AVENUE
MIAMI FL, 33014

Digitally signed by Robert Weinstein
Date: 2025.05.21 15:43:03 -04'00'

DATE PLOTTED: 5/16/25
DATE: 5/16/25
CHK
CHECKED BY:
DRAWN BY: A.M
REVISION
MARK
SCALE: AS NOTED
DATE
SHEET: FP-1 OF 1

AMERICAN FIRE SPRINKLER
SERVICES

American Fire Sprinkler Serv.
3371 NW 154th Terrace
Miami Gardens FL, 33054
305-628-0100

This item has been electronically signed and sealed by Robert Weinstein, P.E. using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Digitally signed by
Robert Weinstein
Date: 2025.05.21
15:43:59 -04'00'

Job Name	:	Cordis (Office Reovation) Area #1
Drawing	:	FP-1
Location	:	14201 Northwest 60th Avenue Miami Lakes FL, 33014
Remote Area	:	1
Contract	:	E79447
Data File	:	Cordis HydraCalcs Office.WXF

ROBERT WEINSTEIN
LICENSE
No 38036
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
5/22/25

HYDRAULIC CALCULATIONS
for

Project name: Cordis (Office Reovation) Area #1
Location: 14201 Northwest 60th Avenue Miami Lakes FL, 33014
Drawing no: FP-1
Date: 5/9/25

Design

Remote area number: 1
Remote area location: Office Area
Occupancy classification: Light Hazard
Density: .10 - Gpm/SqFt
Area of application: 1112.00 - SqFt
Coverage per sprinkler: 196 - SqFt
Type of sprinklers calculated: Tyco TY3531
No. of sprinklers calculated: 10
In-rack demand: - GPM
Hose streams: 100 - GPM
Total water required (including hose streams): 307.818 - GPM @ 30.758 - Psi
Type of system: Wet System
Volume of dry or preaction system: - Gal

Water supply information

Date: 08/27/24
Location: 14201 Northwest 60th Avenue Miami Lakes FL, 33014
Source: Cintas Fire Protection Annual Fire Pump Report

Name of contractor: American Fire Sprinkler Serv.
Address: 3371 NW 154th Terrace / / Miami Gardens FL, 33054
Phone number: 305-628-0100
Name of designer: Armani Mesa
Authority having jurisdiction: City of Miami Dade Fire Division
Notes: (Include peaking information or gridded systems here.)

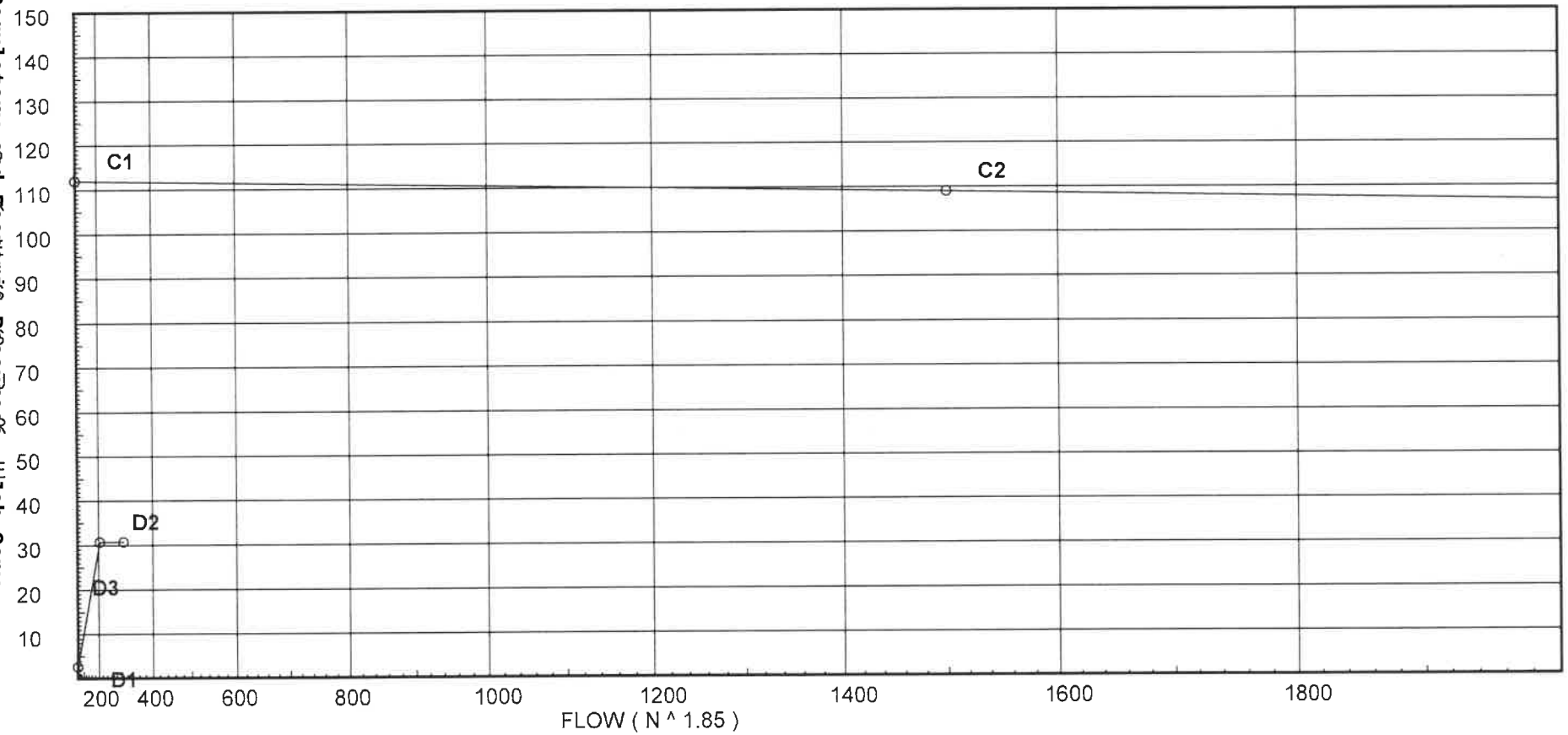
Water Supply Curve C

American Fire Sprinkler Serv.
Cardis (Office Reovation) Area #1

Date 5/9/25

City Water Supply:
- C1 - Static Pressure : 112
- C2 - Residual Pressure: 109
- C2 - Residual Flow : 1500

Demand:
- D1 - Elevation : 2.599
- D2 - System Flow : 207.818
- D2 - System Pressure : 30.758
- Hose (Demand) : 100
- D3 - System Demand : 307.818
- Safety Margin : 81.082



Fittings Used Summary

Fitting Legend

Abbrev.	Name	½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
	NFPA 13 Butterfly Valve	0	0	0	0	0	6	7	10	0	12	9	10	12	19	21	0	0	0	0	0
	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
	Flow Switch Potter VSR	Fitting generates a Fixed Loss Based on Flow																			
	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.

SUPPLY ANALYSIS

Node at Source	Static Pressure	Residual Pressure	Flow	Available Pressure	Total Demand	Required Pressure
FP	112.0	109	1500.0	111.84	307.82	30.758

NODE ANALYSIS

Node Tag	Elevation	Node Type	Pressure at Node	Discharge at Node	Notes
201	9.0	5.6	12.25	19.6	
202	9.0	5.6	12.46	19.77	
203	9.0	5.6	12.94	20.14	
204	9.0	5.6	12.85	20.08	
205	9.0	5.6	13.75	20.77	
206	9.0	5.6	13.99	20.95	
207	9.0	5.6	14.74	21.5	
208	9.0	5.6	14.49	21.32	
209	9.0	5.6	14.74	21.5	
210	9.0	5.6	15.72	22.2	
101	13.0		13.78		
102	13.0		14.04		
103	13.0		14.63		
104	13.0		14.53		
105	13.0		15.64		
106	13.0		15.94		
107	13.0		16.87		
108	13.0		16.56		
109	13.0		16.87		
110	13.0		18.09		
P1	13.0		14.53		
P2	13.0		14.81		
P3	13.0		15.9		
P4	13.0		16.48		
P5	13.0		16.79		
P6	13.0		18.0		
P7	13.0		17.44		
P8	13.0		17.77		
P9	13.0		19.04		
3A	13.0		19.85		
2A	13.0		20.58		
1A	13.0		21.75		
3	12.0		20.96		
2	12.0		21.46		
1	12.0		22.65		
T	12.0		25.05		
TOR	12.0		25.46		
BOR	3.0		30.45	50.0	
E1	3.0		30.49		
E2	-3.0		33.11		
E3	-3.0		33.12		
E4	-3.0		33.31		

NODE ANALYSIS (cont.)

Node Tag	*Elevation*	*Node Type*	*Pressure at Node*	*Discharge at Node*	*Notes*
E5	3.0		30.72		
FP	3.0		30.76	50.0	

Node1 to Node2	Elev1 Elev2	K Fact	Qa Qt	Nom Act	Fitting or Eqiv	Len	Pipe Ftngs Total	CFact Pf/Ft	Pt Pe Pf	******* Notes ******
201	9	5.60	19.60	1	E	2.0	24.000	120	12.250	
to						0.0	2.000		-1.732	
101	13		19.6	1.049		0.0	26.000	0.1253	3.259	Vel = 7.28
			0.0							
101			19.60						13.777	K Factor = 5.28
202	9	5.60	19.77	1	E	2.0	24.000	120	12.465	
to						0.0	2.000		-1.732	
102	13		19.77	1.049		0.0	26.000	0.1274	3.312	Vel = 7.34
			0.0							
102			19.77						14.045	K Factor = 5.28
203	9	5.60	20.14	1	E	2.0	24.000	120	12.937	
to						0.0	2.000		-1.732	
103	13		20.14	1.049		0.0	26.000	0.1318	3.428	Vel = 7.48
			0.0							
103			20.14						14.633	K Factor = 5.26
204	9	5.60	20.08	1	E	2.0	24.000	120	12.854	
to						0.0	2.000		-1.732	
104	13		20.08	1.049		0.0	26.000	0.1311	3.408	Vel = 7.45
			0.0							
104			20.08						14.530	K Factor = 5.27
205	9	5.60	20.77	1	E	2.0	24.000	120	13.750	
to						0.0	2.000		-1.732	
105	13		20.77	1.049		0.0	26.000	0.1395	3.626	Vel = 7.71
			0.0							
105			20.77						15.644	K Factor = 5.25
206	9	5.60	20.95	1	E	2.0	24.000	120	13.990	
to						0.0	2.000		-1.732	
106	13		20.95	1.049		0.0	26.000	0.1417	3.685	Vel = 7.78
			0.0							
106			20.95						15.943	K Factor = 5.25
207	9	5.60	21.50	1	E	2.0	24.000	120	14.739	
to						0.0	2.000		-1.732	
107	13		21.5	1.049		0.0	26.000	0.1488	3.868	Vel = 7.98
			0.0							
107			21.50						16.875	K Factor = 5.23
208	9	5.60	21.32	1	E	2.0	24.000	120	14.488	
to						0.0	2.000		-1.732	
108	13		21.32	1.049		0.0	26.000	0.1464	3.806	Vel = 7.91
			0.0							
108			21.32						16.562	K Factor = 5.24
209	9	5.60	21.50	1	E	2.0	24.000	120	14.740	
to						0.0	2.000		-1.732	
109	13		21.5	1.049		0.0	26.000	0.1487	3.867	Vel = 7.98
			0.0							
109			21.50						16.875	K Factor = 5.23
210	9	5.60	22.20	1	E	2.0	24.000	120	15.717	
to						0.0	2.000		-1.732	
110	13		22.2	1.049		0.0	26.000	0.1578	4.104	Vel = 8.24

Node1 / to / Node2	Elev1 / Elev2	K / Fact	Qa / Qt	Nom / Act	Fitting or Eqiv	Len	Pipe Ftngs Total	CFact / Pf/Ft	Pt / Pe / Pf	******* Notes ******
			0.0							
110			22.20						18.089	K Factor = 5.22
101	13		19.60	1	T	5.0	1.000	120	13.777	
						0.0	5.000		0.0	
to										
P1	13		19.6	1.049		0.0	6.000	0.1253	0.752	Vel = 7.28
			0.0							
P1			19.60						14.529	K Factor = 5.14
102	13		19.77	1	T	5.0	1.000	120	14.045	
						0.0	5.000		0.0	
to										
P2	13		19.77	1.049		0.0	6.000	0.1273	0.764	Vel = 7.34
			0.0							
P2			19.77						14.809	K Factor = 5.14
103	13		20.14	1	T	5.0	4.580	120	14.633	
						0.0	5.000		0.0	
to										
P3	13		20.14	1.049		0.0	9.580	0.1318	1.263	Vel = 7.48
			0.0							
P3			20.14						15.896	K Factor = 5.05
104	13		20.08	1	T	5.0	5.420	120	14.530	
						0.0	5.000		0.0	
to										
P3	13		20.08	1.049		0.0	10.420	0.1311	1.366	Vel = 7.45
			0.0							
P3			20.08						15.896	K Factor = 5.04
105	13		20.77	1	T	5.0	1.000	120	15.644	
						0.0	5.000		0.0	
to										
P4	13		20.77	1.049		0.0	6.000	0.1397	0.838	Vel = 7.71
			0.0							
P4			20.77						16.482	K Factor = 5.12
106	13		20.95	1	T	5.0	1.000	120	15.943	
						0.0	5.000		0.0	
to										
P5	13		20.95	1.049		0.0	6.000	0.1417	0.850	Vel = 7.78
			0.0							
P5			20.95						16.793	K Factor = 5.11
107	13		21.50	1	T	5.0	2.580	120	16.875	
						0.0	5.000		0.0	
to										
P6	13		21.5	1.049		0.0	7.580	0.1487	1.127	Vel = 7.98
			0.0							
P6			21.50						18.002	K Factor = 5.07
108	13		21.32	1	T	5.0	1.000	120	16.562	
						0.0	5.000		0.0	
to										
P7	13		21.32	1.049		0.0	6.000	0.1463	0.878	Vel = 7.91
			0.0							
P7			21.32						17.440	K Factor = 5.11
109	13		21.50	1	T	5.0	1.000	120	16.875	
						0.0	5.000		0.0	
to										
P8	13		21.5	1.049		0.0	6.000	0.1488	0.893	Vel = 7.98
			0.0							
P8			21.50						17.768	K Factor = 5.10

Node1 to Node2	Elev1 Elev2	K Fact	Qa Qt	Nom Act	Fitting or Eqiv	Len	Pipe Ftngs Total	CFact Pf/Ft	Pt Pe Pf	******* Notes ******
110	13		22.20	1	T	5.0	1.000	120	18.089	
to						0.0	5.000		0.0	
P9	13		22.2	1.049		0.0	6.000	0.1578	0.947	Vel = 8.24
			0.0							
P9			22.20						19.036	K Factor = 5.09
P1	13		19.60	1.5	T	8.0	10.000	120	14.529	
to						0.0	8.000		0.0	
P2	13		19.6	1.61		0.0	18.000	0.0156	0.280	Vel = 3.09
P2	13		19.77	1.5	T	8.0	11.210	120	14.809	
to						0.0	8.000		0.0	
P3	13		39.37	1.61		0.0	19.210	0.0566	1.087	Vel = 6.20
P3	13		40.22	1.5	E	4.0	15.000	120	15.896	
to						0.0	4.000		0.0	
3A	13		79.59	1.61		0.0	19.000	0.2079	3.951	Vel = 12.54
			0.0							
3A			79.59						19.847	K Factor = 17.87
P4	13		20.77	1.5	T	8.0	10.000	120	16.482	
to						0.0	8.000		0.0	
P5	13		20.77	1.61		0.0	18.000	0.0173	0.311	Vel = 3.27
P5	13		20.94	1.5	T	8.0	11.210	120	16.793	
to						0.0	8.000		0.0	
P6	13		41.71	1.61		0.0	19.210	0.0629	1.209	Vel = 6.57
P6	13		21.50	1.5	E	4.0	15.000	120	18.002	
to						0.0	4.000		0.0	
2A	13		63.21	1.61		0.0	19.000	0.1358	2.580	Vel = 9.96
			0.0							
2A			63.21						20.582	K Factor = 13.93
P7	13		21.32	1.5	T	8.0	10.000	120	17.440	
to						0.0	8.000		0.0	
P8	13		21.32	1.61		0.0	18.000	0.0182	0.328	Vel = 3.36
P8	13		21.49	1.5	T	8.0	11.210	120	17.768	
to						0.0	8.000		0.0	
P9	13		42.81	1.61		0.0	19.210	0.0660	1.268	Vel = 6.75
P9	13		22.21	1.5	E	4.0	15.000	120	19.036	
to						0.0	4.000		0.0	
1A	13		65.02	1.61		0.0	19.000	0.1431	2.718	Vel = 10.25
			0.0							
1A			65.02						21.754	K Factor = 13.94
3A	13		79.59	2	T	10.0	1.000	120	19.847	
to						0.0	10.000		0.433	
3	12		79.59	2.067		0.0	11.000	0.0616	0.678	Vel = 7.61
			0.0							
3			79.59						20.958	K Factor = 17.39
2A	13		63.21	2	T	10.0	1.000	120	20.582	
to						0.0	10.000		0.433	
2	12		63.21	2.067		0.0	11.000	0.0403	0.443	Vel = 6.04
			0.0							

Node1 to Node2	Elev1 Elev2	K Fact	Qa Qt	Nom Act	Fitting or Eqiv	Len	Pipe Ftngs Total	CFact Pf/Ft	Pt Pe Pf	******* Notes ******
2			63.21						21.458	K Factor = 13.65
1A	13		65.02	2	T	10.0	1.000	120	21.754	
to						0.0	10.000		0.433	
1	12		65.02	2.067		0.0	11.000	0.0424	0.466	Vel = 6.22
			0.0							
1			65.02						22.653	K Factor = 13.66
3	12		79.59	2.5	T	16.474	10.000	120	20.958	
to						0.0	16.474		0.0	
2	12		79.59	2.635		0.0	26.474	0.0189	0.500	Vel = 4.68
2	12		63.21	2.5	T	16.474	5.000	120	21.458	
to						0.0	16.474		0.0	
1	12		142.8	2.635		0.0	21.474	0.0556	1.195	Vel = 8.40
1	12		65.02	2.5	T	16.474	5.000	120	22.653	
to						0.0	16.474		0.0	
T	12		207.82	2.635		0.0	21.474	0.1115	2.394	Vel = 12.23
T	12		0.0	6	3E	52.808	218.000	120	25.047	
to						0.0	52.808		0.0	
TOR	12		207.82	6.357		0.0	270.808	0.0015	0.414	Vel = 2.10
			0.0							
TOR			207.82						25.461	K Factor = 41.19
TOR	12		207.82	6	T	37.72	9.000	120	25.461	
to					Fsp	0.0	50.293		4.898	* * Fixed Loss = 1
BOR	3		207.82	6.357	B	12.573	59.293	0.0015	0.091	Vel = 2.10
BOR	3	H50	50.00	8	T	41.108	3.420	120	30.450	
to					E	21.141	62.249		0.0	
E1	3		257.82	8.249		0.0	65.669	0.0006	0.042	Vel = 1.55
			0.0							
E1			257.82						30.492	K Factor = 46.69
E1	3		257.82	8	E	21.141	5.000	120	30.492	
to						0.0	21.141		2.599	
E2	-3		257.82	8.249		0.0	26.141	0.0006	0.016	Vel = 1.55
E2	-3		0.0	8	E	21.141	6.000	120	33.107	
to						0.0	21.141		0.0	
E3	-3		257.82	8.249		0.0	27.141	0.0007	0.018	Vel = 1.55
E3	-3		0.0	8	2E	56.936	325.000	140	33.125	
to						0.0	56.936		0.0	
E4	-3		257.82	8.27		0.0	381.936	0.0005	0.181	Vel = 1.54
E4	-3		0.0	8	E	28.468	6.000	140	33.306	
to						0.0	28.468		-2.599	
E5	3		257.82	8.27		0.0	34.468	0.0005	0.017	Vel = 1.54
E5	3		0.0	8	2E	42.282	10.000	120	30.724	
to						0.0	42.282		0.0	
FP	3		257.82	8.249		0.0	52.282	0.0007	0.034	Vel = 1.55
			50.00							Qa = 50.00
FP			307.82						30.758	K Factor = 55.50

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

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

12/17/2025 3:12:04 PM

Tracking #	Process #	Permit #
3226003985	M2026003985	2026015965

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

Process #	Review	Disposition	Reviewer	Date
M2026003985	FIRE	A	CARRIER, KEVIN	12/9/2025
M2026003985	UPFRONT FEES	A	WEB APPLICATION ID	11/25/2025

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.

Permitting@MVFCG.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

M2026003985 SME2025-3195 3226003985

PROVIDE MUNICIPAL PROCESS NUMBER HERE

LOCATION OF IMPROVEMENTS

Job Address 14201 NW 60TH AVENUE, MIAMI LAKES, FL 33014
Folio 32-2024-011-0010
Lot _____ Block _____
Subdivision N/A PBpg _____
Metes and bounds _____

CONTRACTOR INFORMATION

Contractor No. FPC17-000109
Last four (4) digits of Qualifier No. 9545
Contractor Name American Fire Sprinkler Services, LLC.
Qualifier Name OMAR OWEIS
Address 3371 NW 154th Terrace
City Miami Gardens State FL Zip 33054

TYPE OF IMPROVEMENTS

[ ] New Construction on Vacant Land
[X] Alteration Interior
[ ] Alteration Exterior
[ ] Relocation of Structure
[ ] Enclosure
[ ] Repair
[ ] Repair Due to Fire
[ ] Demolish
[ ] Shell Only
[ ] Addition Attached
[ ] Addition Detached
[ ] Re-Roof
[ ] Foundation Only
[ ] Tent

Current use of property CONDOMINIUM: COMMERCIAL
Description of Work ADD/RELOCATE (48) FIRE SPRINKLER HEADS
Sq. Ft. _____ Units _____ Floors _____
Value of Work $ 13,750

PERMIT TYPE

[ ] MBLD* Category _____
[ ] MELE _____
[ ] MPLU _____
[ ] MLPG _____
[ ] MMEC _____
[X] FIRE 32

REVIEW STATUS

[ ] Chg. Contractor
[ ] Re-Issue
[ ] Re-Stamp
[ ] Revision
[ ] Not Applicable for Fire

OWNER'S NAME

Owner CORDIS US CORP
Address 14201 NW 60 AVE
City MIAMI LAKES State FL Zip 33014
Phone _____
Last four (4) digits of Owner's Social Security No. _____

PERSON TO PICK UP PLANS

Name MICHAEL ANANIAN
Address 3371 NW 154th Terrace
City Miami Gardens State FL Zip 33054
Phone (305) 525-1449

ARCHITECT / ENGINEER

Owner _____
Address _____
City _____ State _____ Zip _____
Phone _____

FIRE SPECIAL REQUEST PLAN REVIEW (SRI)

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.

1st Request: _____ Date: _____
2nd Request: _____ Date: _____
3rd 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 5/17

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
3226003985 - 12/17/2025 3:12:04 PM
MDC PERMIT APP.pdf
Examiner Date Time Stamp Trade Stamp Name
CARRIER, KEVIN 12/9/2025 8:25:48 PM FIRE Reference Only.

Series RFII — 5.6 K-factor "Royal Flush II" Concealed Pendent Sprinklers Quick & Standard Response, Standard Coverage

General Description

The TYCO Series RFII 5.6 K-factor, "Royal Flush II" Concealed Pendent Sprinklers Quick Response (3-mm bulb) and Standard Response (5-mm bulb), are decorative sprinklers featuring a flat cover plate designed to conceal the sprinkler. These sprinklers are optimal for architecturally sensitive areas such as hotel lobbies, office buildings, churches, and restaurants.

Each sprinkler includes a Cover Plate/Retainer Assembly and a Sprinkler/Support Cup Assembly. The separable, two-piece assembly design provides the following benefits:

- Allows installation of the sprinklers and pressure testing of the fire protection system prior to installation of a suspended ceiling or application of the finish coating to a fixed ceiling.
- Permits the removal of suspended ceiling panels for access to building service equipment without having to first shut down the fire protection system and remove sprinklers.
- Provides for 1/2 inch (12,7 mm) of vertical adjustment to allow a measure of flexibility in determining the length of fixed piping to cut for the sprinkler drops.

The Series RFII Sprinklers are shipped with a Disposable Protective Cap. The Protective Cap is temporarily removed during installation and replaced to help protect the sprinkler during ceiling installation or finish. The tip of the Protective Cap can be used to mark the center of the ceiling hole into plaster board or ceiling tiles by gently pushing the ceiling product against the Protective Cap. When ceiling installation is complete, the Protective Cap is removed and the Cover Plate/Retainer Assembly is installed.

As an option, the Series RFII Standard Response (5-mm bulb) "Royal Flush II" Concealed Pendent Sprinklers can be fitted with a silicone Air and Dust Seal. (Refer to Figure 5.) The Air and Dust Seal is intended for sensitive areas where it is desirable to prevent air and dust from the area above the ceiling to pass through the cover plate.

IMPORTANT

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 Series RFII Concealed Pendent Sprinklers described herein must be installed and maintained in compliance with this document and with the applicable standards of the National Fire Protection Association, in addition to the standards of any 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. The installing contractor or sprinkler manufacturer should be contacted with any questions.

Sprinkler Identification Number (SIN)

TY3531 — 3 mm bulb
TY3551 — 5 mm bulb

Technical Data

Sprinkler Approvals

Approvals apply only to the service conditions indicated in the Design Criteria section.

- TY3531 (3-mm Bulb) is UL Listed, C-UL Listed, VdS Approved (Certificate No. G4090007), and NYC Approved (MEA 353-01-E) as Quick Response.
- TY3531 (3-mm Bulb) is FM and LPCB Approved (Ref. No. 094a/10) Approved as Standard Response. Factory Mutual and LPCB do not approve any concealed sprinklers for quick response.
- TY3551 (5-mm Bulb) is UL Listed, C-UL Listed, FM Approved, LPCB Approved (Ref. No. 094a/9), and NYC Approved (MEA 353-01-E) as Standard Response.

Approvals for Air and Dust Seal

UL and C-UL Listed for use with the RFII Standard Response Concealed Sprinkler (TY3551).

Maximum Working Pressure

Maximum 250 psi (17,3 bar) by UL, C-UL, and NYC

Maximum 175 psi (12,1 bar) by FM, VdS, and LPCB

Temperature Rating

155°F (68°C) Sprinkler with 139°F (59°C) Plate

200°F (93°C) Sprinkler with 165°F (74°C) Plate

Discharge Coefficient

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

Adjustment

1/2 inch (12,7 mm)

Finishes

See the Ordering Procedure section.

Physical Characteristics

Frame . . . . . Bronze
Support Cup. . . . . .Chrome Plated Steel
Guide Pins . . . . . Stainless Steel
Deflector. . . . . Bronze
Compression Screw. . . . . Brass
Bulb . . . . . .Glass
Cap. . . . . .Bronze or Copper
Sealing Assembly. . . . . .Beryllium Nickel w/ TEFLON
Cover Plate. . . . . Brass
Retainer . . . . . Brass
Ejection Spring. . . . . Stainless Steel

Design Criteria

The TYCO Series RFII 5.6 K-factor, "Royal Flush II" Concealed Pendent Sprinklers are intended for fire protection systems designed in accordance with the standard installation rules recognized by the applicable Listing or Approval agency; for example, UL Listing is based on NFPA 13 and VdS Approval is based on the CEA 4001.

For more information on LPCB and VdS Approvals, contact Tyco Fire Protection Products at the following office:

Enschede, Netherlands
Telephone: 31-53-428-4444
Fax: 31-53-428-3377

The Series RFII Concealed Pendent Sprinklers are only listed and approved with the Series RFII Concealed Cover Plates having a factory applied finish.

NOTICE

Do not use the Series RFII in applications where the air pressure above the ceiling is greater than that below. Down drafts through the Sprinkler/Support Cup Assembly can delay sprinkler operation in a fire situation.

Operation

When exposed to heat from a fire, the Cover Plate, normally soldered to the Retainer at three points, falls away to expose the Sprinkler/Support Cup Assembly.

The Deflector — supported by the Guide Pins — then drops down to its operational position.

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

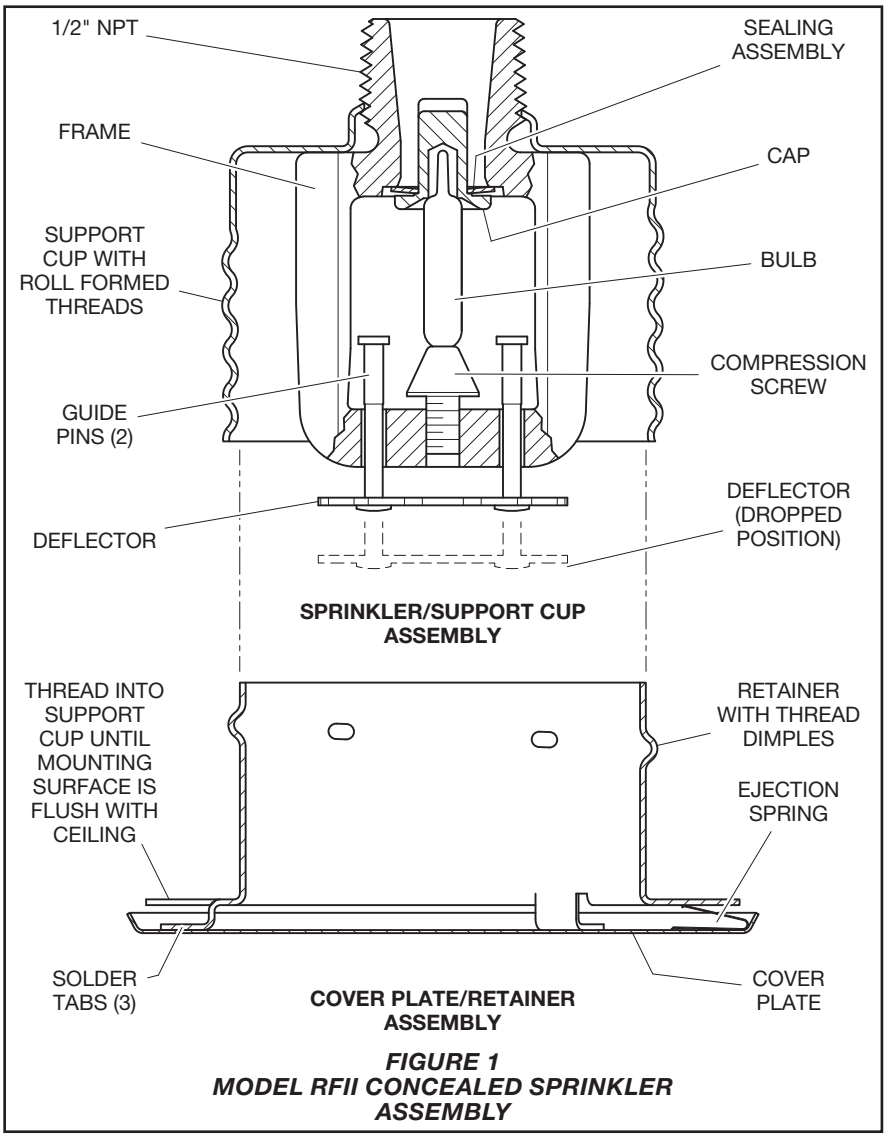


FIGURE 1
MODEL RFII CONCEALED SPRINKLER ASSEMBLY

Installation

The TYCO Series RFII 5.6 K-factor, "Royal Flush II" Concealed Pendent 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 inch (1,6 mm) for the 155°F (68°C) and 3/32 inch (2,4 mm) for the 200°F (93°C) temperature ratings.

A leak-tight 1/2 inch NPT sprinkler joint should be obtained by applying a minimum to maximum torque of 7 to 14 ft.-lbs. (9,5 to 19,0 Nm). 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 Sprinkler by under- or over-tightening the Sprinkler/Support Cup Assembly. Re-adjust the position of the sprinkler fitting to suit.

Step 1. Install the sprinkler only in the pendent position with the center-line of the sprinkler perpendicular to the mounting surface.

Step 2. Remove the Protective Cap.

Step 3. With pipe thread sealant applied to the pipe threads, hand-tighten the sprinkler into the sprinkler fitting.

Step 4. Wrench-tighten the sprinkler using only the RFII Sprinkler Wrench. (Refer to Figure 3.) Apply the RFII Sprinkler Wrench to the Sprinkler as shown in Figure 3.

Step 5. Replace the Protective Cap by pushing it upwards until it bottoms out against the Support Cup. (Refer to Figure 4.) The Protective Cap helps prevent damage to the Deflector and

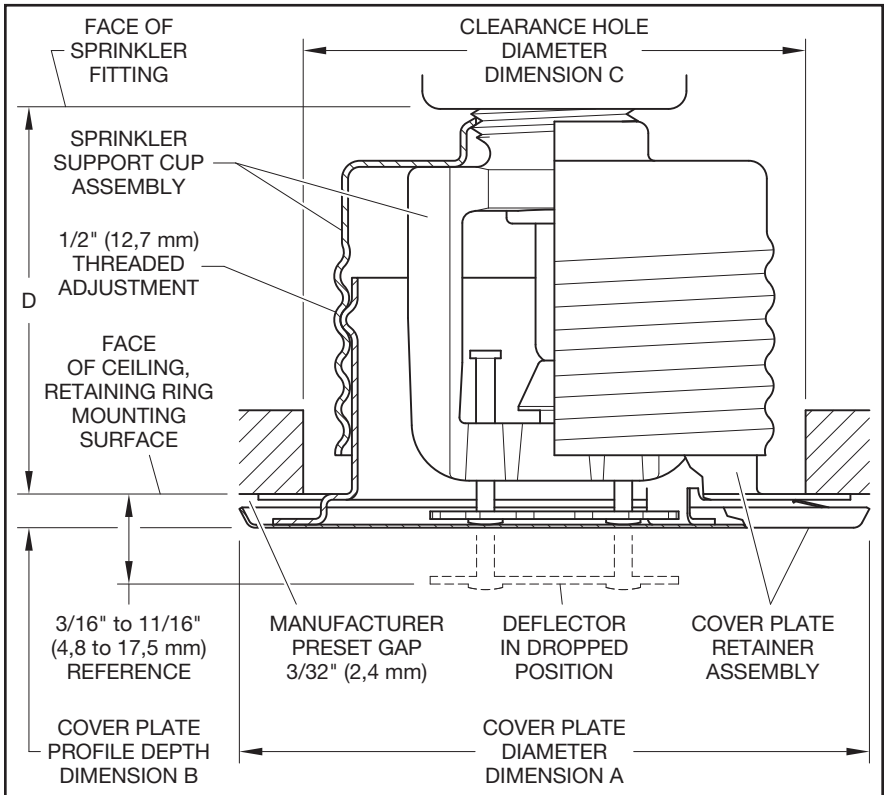


FIGURE 2
SERIES CONCEALED SPRINKLER INSTALLATION DIMENSIONS

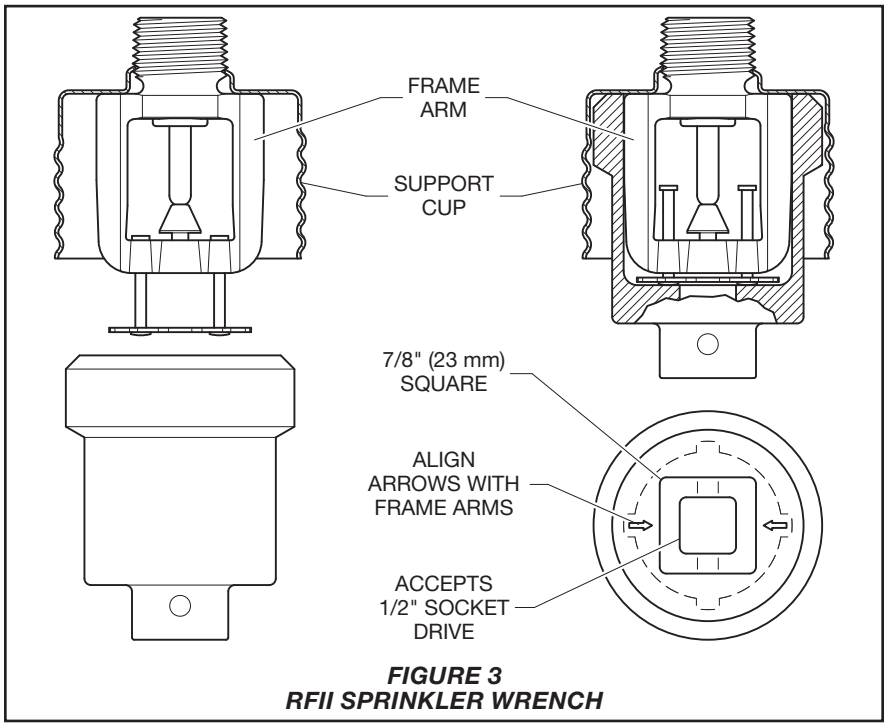


FIGURE 3
RFII SPRINKLER WRENCH

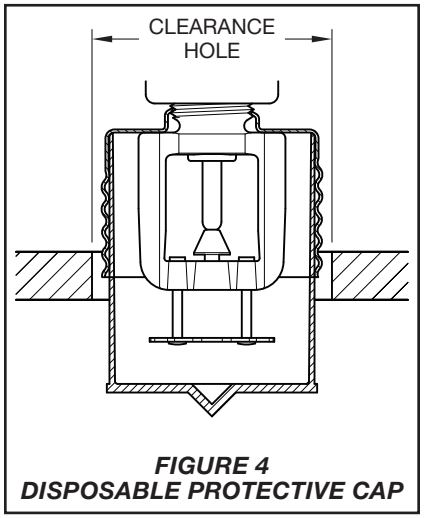


FIGURE 4
DISPOSABLE PROTECTIVE CAP

Arms during ceiling installation and/or finish. You can also use the Protective Cap to locate the center of the clearance hole by gently pushing the ceiling material up against the center point of the Protective Cap.

NOTICE

As long as the Protective Cap remains in place, the system is considered "Out of Service".

Step 6. After the ceiling has been completed with the 2-1/2 inch (63,5 mm) diameter clearance hole and in preparation for installing the Cover Plate/Retainer Assembly, remove and discard the Protective Cap. Verify that the Deflector moves up and down freely.

If the Sprinkler is damaged and the Deflector does not move up and down freely, replace the entire Sprinkler. Do not attempt to modify or repair a damaged sprinkler.

Step 7. When installing an Air and Dust Seal, refer to Figure 5; otherwise, proceed to Step 8. To attach the Air and Dust Seal, verify the angle of the outside edge of the seal is oriented according to Figure 5. Start the edge of the Retainer in the grooved slot of the Air and Dust Seal and continue around the retainer until the entire Air and Dust Seal is engaged.

Step 8. Screw on the Cover Plate/Retainer Assembly until the Retainer (shown in Figure 2) or the Air and Dust Seal (shown in Figure 5) contacts the ceiling. Do not continue to screw on the Cover Plate/Retainer Assembly so that it lifts a ceiling panel out of its normal position. If you cannot engage the Cover Plate/Retainer Assembly with the Support Cup or you cannot engage the Cover Plate/Retainer Assembly sufficiently to contact the ceiling, you must reposition the Sprinkler Fitting.

Care and Maintenance

The TYCO Series RFII 5.6 K-factor, "Royal Flush II" Concealed Pendent 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 system from the proper authorities and notify all personnel who may be affected by this action.

Absence of the Cover Plate/Retainer Assembly can delay sprinkler operation in a fire situation.

When properly installed, there is a nominal 3/32 inch (2,4 mm) air gap between the lip of the Cover Plate and the ceiling, as shown in Figure 2.

This air gap is necessary for proper operation of the sprinkler. If the ceiling requires repainting after sprinkler installation, ensure that the new paint does not seal off any of the air gap.

Do not pull the Cover Plate relative to the Enclosure. Separation 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.)

Exercise care to avoid damage to sprinklers before, during, and after installation. Replace sprinklers damaged by dropping, striking, wrench twisting, wrench slipping, or the like. Also, replace any sprinkler that has a cracked bulb or that has lost liquid from its bulb. (Refer to the Installation section.)

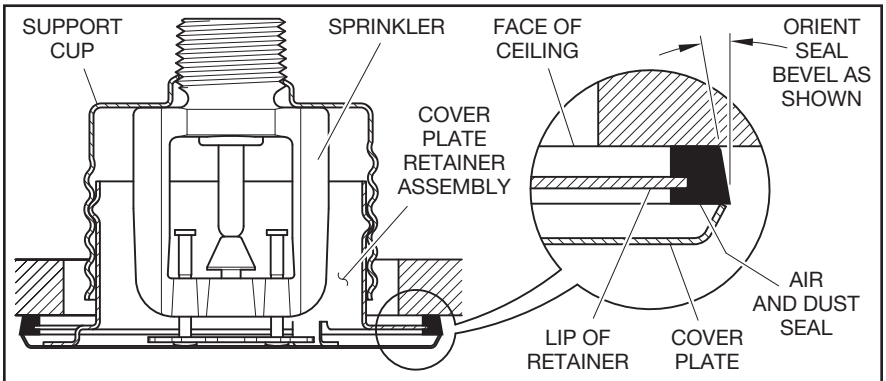


FIGURE 5
OPTIONAL AIR AND DUST SEAL FOR SERIES RFII (TY3551)

If you must remove a sprinkler, do not reinstall it or a replacement without reinstalling the Cover Plate/Retainer Assembly. If a Cover Plate/Retainer Assembly becomes dislodged during service, replace it immediately.

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 sprinkler manufacturer regarding any questions.

Automatic sprinkler systems should be inspected, tested, and maintained by a qualified Inspection Service in accordance with local requirements and/or national code.

Ordering Procedure

Contact your local distributor for availability. When placing an order, indicate the full product name.

Sprinkler/Support Cup Assembly

Specify: Series RFII (specify SIN), K=5.6, "Royal Flush II" Pendent Sprinklers (specify) temperature rating and (specify) finish, P/N (specify).

	155°F (68°C)	200°F (93°C)
TY3531	51-792-1-155	51-792-1-200
TY3551	51-790-1-155	51-790-1-200

Separately Ordered Cover Plate/ Retainer Assembly:

Specify: (temperature rating from below) Series RFII Concealed Cover Plate with (finish), P/N (specify).

	139°F (59°C)(a)	165°F (74°C)(b)
Grey White (RAL9002)	56-792-0-135	56-792-0-165
Brass	56-792-1-135	56-792-1-165
Pure White (c) (RAL9010)	56-792-3-135	56-792-3-165
Signal White (RAL9003)	56-792-4-135	56-792-4-165
Jet Black (RAL9005)	56-792-6-135	59-792-6-165
Brushed Chrome	56-792-8-135	56-792-8-165
Chrome	56-792-9-135	56-792-9-165
Custom	56-792-X-135	56-792-X-165

(a) For use with 155°F (68°C) sprinklers.
(b) For use with 200°F (93°C) sprinklers.
(c) Eastern Hemisphere sales only.

Sprinkler Wrench

Specify: RFII Sprinkler Wrench, P/N 56-000-1-075.

Air and Dust Seal

Specify: Air and Dust Seal, P/N 56-908-1-001.

MIAMI LAKES
Growing Beautifully

Address:	14201 NW 60 AVE 8C
Folio #:	3220240110010
MDC Process #:	M20260003985
MDC Tracking #:	3226003985
Job Description:	FIRE SPRINKLER

Master Permit #: BLC2025-1226 **Sub Permit #:** SME2025-3195 **Revision #:**

OFFICE USE ONLY

	Approved	Date	Disapproved
ZONING			
	Date		
	Initials		

	Approved	Date	Disapproved
BUILDING			
	Date		
	Initials		

	Approved	Date	Disapproved
STRUCT.			
	Date		
	Initials		

	Approved	Date	Disapproved
ROOFING			
	Date		
	Initials		

	Approved	Date	Disapproved
ELECT.			
	Date		
	Initials		

	Approved	Date	Disapproved
MECH.	X		
	Date		
	Initials		

	Approved	Date	Disapproved
PLUMBING			
	Date		
	Initials		

	Approved	Date	Disapproved
FLOOD			
	Date		
	Initials		

	Approved	Date	Disapproved
	Date		
	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:	

Issuing Clerk: Date: /

MIAMI LAKES
Growing Beautifully

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: 14201 NW 60TH AVENUE

Unit #:

Folio #: 32- 2024-011-0010 Owner-Builder: ☐

Master Permit #: BLC2025-1226 Sub Permit #: SME2025-3195 Revision #: _____

OWNER INFORMATION

NAME : CORDIS US CORP

Address: 14201 NW 60 AVE

City, State, Zip MIAMI LAKES, FL 33014

Phone #: Cell #:

Email Address:

LEGAL USE/ WORK

Current Use of Property: WAREHOUSE

Job Description ADD/RELOCATE (48) FIRE SPRINKLER HEADS

JOB COST $ 13,750 AREA/LENGTH: ____ SF/LF

Residential ☐ Multi-Family ☑ Commercial ☐ Industrial ☐

Code in Effect:

Occupancy:

Construction Type:

Flood Zone/B.F.E.: _____ F.F.E.: _____

CONTRACTOR INFORMATION

Company Name: American Fire Sprinkler Services LLC

Qualifier Name: OMAR OWEIS

License # FPC17-000109

Address 3371 NW 154TH TERRACE

City, State, Zip MIAMI GARDENS, FL 33054

Phone #: 305-628-0100 Cell #: 305-525-2331

Email Address: MIKE@AMERICANPERMITTING.COM

ARCHITECT/ ENGINEER

Firm Name:

A/E of record:

License #

Address

City, State, Zip

Phone #: Cell #:

Email Address:

Permit Type — Check only One

☑ Building ☐ Electrical ☐ Mechanical ☐ Plumbing/Gas
☐ Paving/Drainage ☐ Sign ☐ Roofing ☐ P/W

Change to Permit — Check only One

☐ Extension ☐ Renewal ☐ Revision
☐ 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 _____ Date _____
Signature of Owner or Owner's Agent

Print Name of Owner or Owner's Agent

STATE OF _____ COUNTY OF _____

Sworn to and subscribed before me this _____ 20___

by _____ (SEAL)

Personally known ☐ or I.D. _____

X _____ Date 05/07/2025
Signature of Qualifier

Print Name of Qualifier OMAR OWEIS

STATE OF FLORIDA COUNTY OF MIAMI DADE

Sworn to and subscribed before me this MAY 7TH 20 25

by OMAR OWEIS (SEAL)

Personally known ☑ or I.D. _____

NOTARY PUBLIC STATE OF FLORIDA
NICOLE S. PASSLEY
MY COMMISSION # HH 451343
EXPIRES: October 15, 2027

NOTICE: In addition to the requirements of this permit, there may be additional deed restrictions enforced by the homeowner's association 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.

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