

W. C. E. T.
 Christopher A. Williams
 Level 3
 Certification Number 115724
 North Carolina License # 29745

IMPORTANT OWNER INFORMATION
 THIS DRAWING IS BASED ON THE OWNER'S ACCEPTANCE OF THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.

CPVC COMPATIBILITY NOTICE
 CPVC FIRE SPRINKLER PIPING SYSTEMS HAVE BEEN SUCCESSFULLY USED FOR MORE THAN 25 YEARS IN NEW CONSTRUCTION. CPVC AND CPVC FITTINGS ARE COMPATIBLE WITH CHLORAL HYDRATE (CH2) AND CHLORAL HYDRATE (CH2) IN THE CONSTRUCTION MATERIALS. CPVC AND CPVC FITTINGS ARE COMPATIBLE WITH CHLORAL HYDRATE (CH2) AND CHLORAL HYDRATE (CH2) IN THE CONSTRUCTION MATERIALS. CPVC AND CPVC FITTINGS ARE COMPATIBLE WITH CHLORAL HYDRATE (CH2) AND CHLORAL HYDRATE (CH2) IN THE CONSTRUCTION MATERIALS.

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GRAPHICS ELEMENTS NOTE
 THE SPARKLING CONSTRUCTION DRAWINGS AND SHOP DRAWINGS MAY INCLUDE INFORMATION DERIVED FROM OTHER SOURCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION DERIVED FROM OTHER SOURCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION DERIVED FROM OTHER SOURCES.

WATER SUPPLY INFORMATION

ACTUAL	DESIGNED OR ESTIMATED	FIRE FLOW
STATIC PRESSURE	80	HYDRANT ELEV.
RESIDUAL PRESSURE	68	DATE OF TEST
FLOW IN GPM	1060	TEST RESULTS
PITOT READING	40	NUMBER OF PORTS FLOWED

TEST PROVIDED BY: Lillington Fire Department
 HYDRANT LOCATION: Test Hydrant 4211 225 - Flow Hydrant 4311 225

DESIGN CRITERIA

SYSTEM / DESIGN AREA	HAZARD CLASS	# OF SPINKERS IN DESIGN AREA	MINIMUM DENSITY	DESIGN AREA SF.	PST REQ'D # BASIN	EPN REQ'D # BASIN	PST REQ'D # TEST	EPN REQ'D # TEST	ELEVATION @ HIGHEST SPINKER	HOSE, MAND. / OUTSIDE	DOMESTIC RETURN

SPRINKLERS SPACING

SYMBOL	MAXIMUM	MINIMUM	COMMENTS

QUANTITY - SPRINKLERS

SYMB	1ST	2ND	3RD	4TH	SIN	SIZE	K	TEMP	MODEL

TOTAL PER FLOOR: _____
 TOTAL THIS SHEET: _____

DATE	SUBMITTALS	BY
3-16-2021	QA Review	DH
4-5-2024	Permit	DH

NO.	DATE	REVISIONS	BY
1	XX/XX/XX		

W. WAYNE
 Automatic Fire Sprinklers, Inc.
 MAIN OFFICE - ORLANDO, FLORIDA
 222 CAPITOL COURT, ORLANDO, FLORIDA 32781
 PHONE (407) 858-3030 FAX (407) 858-8088

JACKSONVILLE, FL: 3808 MARKET PLACE DRIVE, JACKSONVILLE, FL 32209-2276
 TAMPA, FL: 2800-2276, TAMPA, FL 33607-2276
 DEERFIELD BEACH, FL: 1000 UNIVERSITY BLVD, DEERFIELD BEACH, FL 33442-5902

FT. MYERS, FL: 4025 METRO AVE, FT. MYERS, FL 33907-4804
 CONCORD, NC: 9007-4677, CONCORD, NC 28027-4677
 STATE LICENSE: NC SPRINKLER #17, NC ALARM #8888 OF LV, NC SPRINKLER #1

JUNIPER VILLAGE
 PARKER LANE
 LILLINGTON, NORTH CAROLINA

Wynnefield Properties
 5614 Riverdale Road
 Jamestown, NC 27282

SHEET TITLE: FIRE SPRINKLER SITE PLAN
 DRAWN BY: Donald Hawkins
 TOTAL A/S: 938
 DATE: 3-5-2021
 A/E: Harnett County
 CONTRACT #: 102001
 CENTER OF TILE JOB? YES NO CENTER ON FIXTURES JOB? YES NO
 SHEET #: **FPS 1.1** CONSTRUCTION TYPE: V-B OCCUPANCY: R-2

UNDERGROUND CONTRACTOR NOTES

- ALL UNDERGROUND PIPING IS BY OTHERS.
- PLANS ARE PROVIDED FOR HYDRAULIC REFERENCE NODE PURPOSES AND FDC LOCATIONS ONLY.
- UNDERGROUND CONTRACTOR IS TO PROVIDE WAFS WITH TEST CERTIFICATES INDICATING COMPLETION OF HYDROSTATIC TEST AND FLUSH PER NFPA 24 PRIOR TO WAFS CONNECTING TO THE UNDERGROUND.
- UNDERGROUND CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF LEAD-INS WITH WAFS.
- UNDERGROUND CONTRACTOR SHALL NOTIFY WAFS OF MAKE AND MODEL OF BACKFLOW PREVENTER USED WHEN IN THEIR SCOPE.
- ALL TAMPER SWITCHES REQUIRED ON UNDERGROUND NOT IN WAFS SCOPE SHALL BE BY OTHERS.
- FOR HYDRAULIC CALCULATION PURPOSES ELEVATION OF 169' IS CONSIDERED 0'-0".

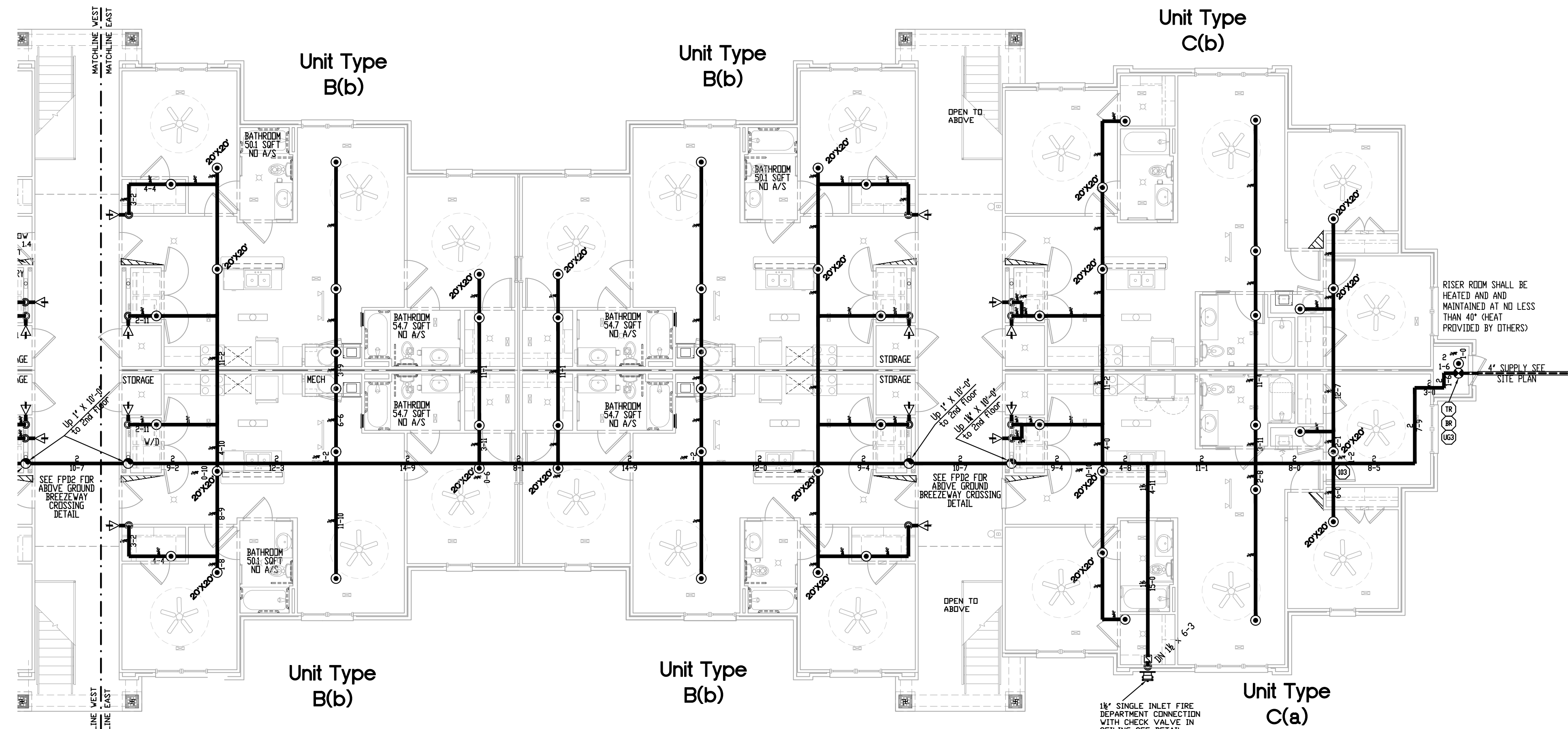
W. WAYNE
 Automatic Fire Sprinklers, Inc.
 SCALE: NONE
 00500N

FLOW TEST HYDRANT LOCATION
 SCALE 1" = 30'-0"

FLOW HYDRANT
 4211 225 LOCATED
 369'-0" SOUTHWEST
 FLOW = 1060 GPM

TEST HYDRANT
 224;
 STATIC = 80 PSI
 RESIDUAL = 68 PSI
 ELEVATION 164'
 (-5'-0")

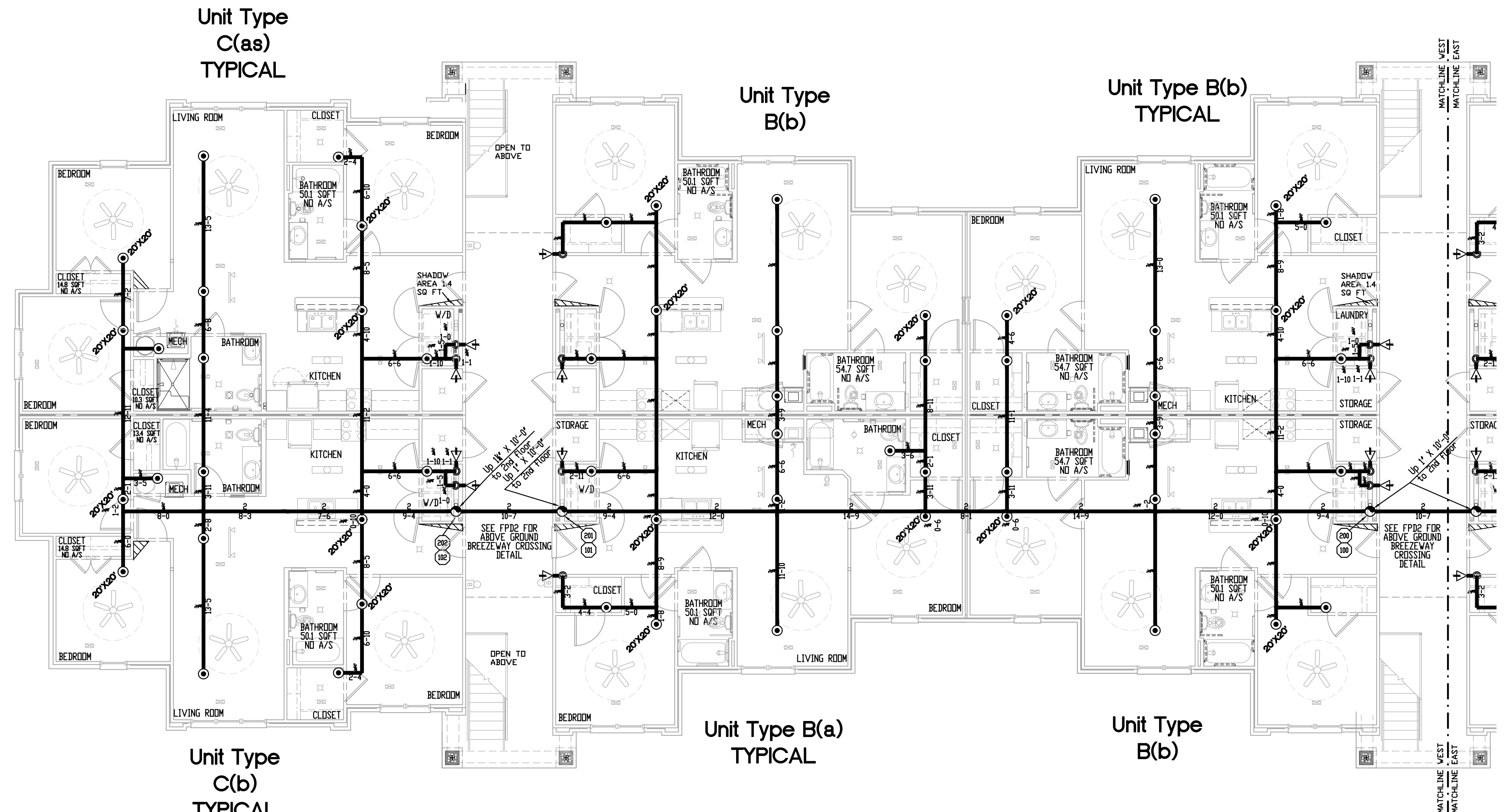
BUILDING 300
 SCALE 1" = 30'



BUILDING 300 - 1ST FLOOR FIRE SPRINKLER LAYOUT (EAST)

15,237 Sq Ft

SCALE 1/8" = 1'-0"




BUILDING 300 - 1ST FLOOR FIRE SPRINKLER LAYOUT (WEST)

15,237 Sq Ft

SCALE 1/8" = 1'-0"

- NOTE:
- FOR FIRE SPRINKLER RISER DETAIL SEE SHEET FP33.
 - PIPE LENGTHS FOR TYPICAL UNITS AND UNITS WITHOUT HYDRAULIC CALCULATION POINTS HAVE BEEN OMITTED FOR CLARITY.
 - A 1 HOUR FIRE WALL IS PROVIDED BY OTHERS BETWEEN DWELLING UNITS.
 - CEILINGS IN UNITS ARE 8'-0" AFF. UNLESS NOTED OTHERWISE.
 - THE RISER ROOM SHALL BE HEATED AND MAINTAINED AT NO LESS THAN 40° HEAT IS TO BE PROVIDED BY OTHERS.
 - HORIZONTAL SIDEWALL SPRINKLERS ON THE TOP FLOOR ARE SUPPLIED BY AN 3' x 8'-3" SECTION OF CPVC PIPE.



Christopher A. Williams
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 Certification Number 115724
 North Carolina License # 29745

IMPORTANT OWNER INFORMATION
 THIS DRAWING IS BASED ON THE OWNER'S ACCEPTANCE OF THE CURRENTLY ADOPTED EDITIONS OF ALL LOCAL, STATE AND FEDERAL CODES AND REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED BY THE OWNER.

CPVC COMPATIBILITY NOTICE
 CPVC FIRE SPRINKLER PIPING SYSTEMS HAVE BEEN SUCCESSFULLY USED IN RESIDENTIAL UNITS IN NEW CONSTRUCTION. CPVC AND CPVC COMPATIBLE PRODUCTS ARE AVAILABLE FROM A LIMITED NUMBER OF SUPPLIERS. CPVC COMPATIBLE PRODUCTS ARE AVAILABLE FROM A LIMITED NUMBER OF SUPPLIERS. CPVC COMPATIBLE PRODUCTS ARE AVAILABLE FROM A LIMITED NUMBER OF SUPPLIERS.

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GRAPHICS ELEMENTS NOTE
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED BY THE ARCHITECTURAL, CIVIL, STRUCTURAL, OR MECHANICAL ENGINEERS. THESE ENGINEERS ARE NOT RESPONSIBLE FOR THE GRAPHICS ELEMENTS OF THIS DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED BY THE ARCHITECTURAL, CIVIL, STRUCTURAL, OR MECHANICAL ENGINEERS.

WATER SUPPLY INFORMATION

PARAMETER	ACTUAL	DESIGN OR ESTIMATED	TEST	DATE OF TEST
STATIC PRESSURE	80	-	HYDRANT ELEV.	163 (3-20)
RESIDUAL PRESSURE	68	-	DATE OF TEST	3-20-2024
FLOW IN GPM	1060	-	TYPE OF TEST	RESIDUAL
PITOT READING	40	-	NUMBER OF PORTS FLOWED	1

TEST PROVIDED BY: Lillington Fire Department
 HYDRANT LOCATION: Parker Lane and North Main Street - Hydrant #224

DESIGN CRITERIA

DESIGN AREA #	HAZARD CLASS	TYPE OF SPINKLER	MINIMUM DENSITY	DESIGN AREA SF.	PSI REQ'D @ BASK	GPM REQ'D @ BASK	PSI REQ'D @ TEST	ELEVATION @ HIGHEST SPINKLER	HOSE, INDOOR/OUTDOOR	DOMESTIC BEHIND
-	-	-	-	-	-	-	-	-	-	-

SPRINKLERS SPACING


SYMBOL	MAXIMUM	MINIMUM	COMMENTS
⊙	18' x 18' UNID	8'	8'-0" MAX SPACING OFF WALLS UNID DEFLECTOR TO BE INSTALLED 1'-0" BELOW CEILING.
⊗	225 SQ FT	8'	8'-0" MAX SPACING OFF WALLS UNID DEFLECTOR TO BE INSTALLED 1'-0" BELOW CEILING.
⊠	16' x 16' UNID	8'	8'-0" MAX SPACING OFF WALLS UNID DEFLECTOR TO BE INSTALLED 1'-0" BELOW CEILING.
⊡	196 SQ FT	8'	8'-0" MAX SPACING OFF WALLS UNID DEFLECTOR TO BE INSTALLED 1'-0" BELOW CEILING.

SPRINKLERS

SYMB	QTY	1ST	2ND	3RD	4TH	SIN	SIZE	K	TEMP	MODEL
⊙	114	112	-	-	-	R3516	1/2"	49	175°	RELIABLE MODEL F1 RWS 49 WHITE RESIDENTIAL PENDENT WITH WHITE SEMI-RECESSED ESCUTCHEON
⊗	6	-	-	-	-	V3506	1"	56	200°	VICTORIAN MODEL V3506 WHITE QUICK RESPONSE BAY FLEXIBLE PENDENT SPRINKLER WITH WHITE ESCUTCHEON
⊠	24	24	24	-	-	R3531	1/2"	44	175°	RELIABLE MODEL F1 RWS 44 RESIDENTIAL HORIZ. SIDEWALL WITH WHITE SEMI-RECESSED ESCUTCHEON
⊡	24	24	24	-	-	R5714	1"	56	200°	RELIABLE MODEL F300 WHITE QUICK RESPONSE 300 HORIZONTAL SIDEWALL SPRINKLER WITH WHITE SLEEVE AND SKIRT ESCUTCHEON, 12" LONG
	138	142	142	-	-					TOTAL PER FLOOR
	422									TOTAL THIS BUILDING

DATE	SUBMITTALS	BY
3-16-2024	QA Review	DH
2-1-2023	Permit	DH

NO.	DATE	REVISIONS	BY
1	XX/XX/XX		



Wayne Automatic Fire Sprinklers, Inc.
 MAIN OFFICE - ORLANDO, FLORIDA
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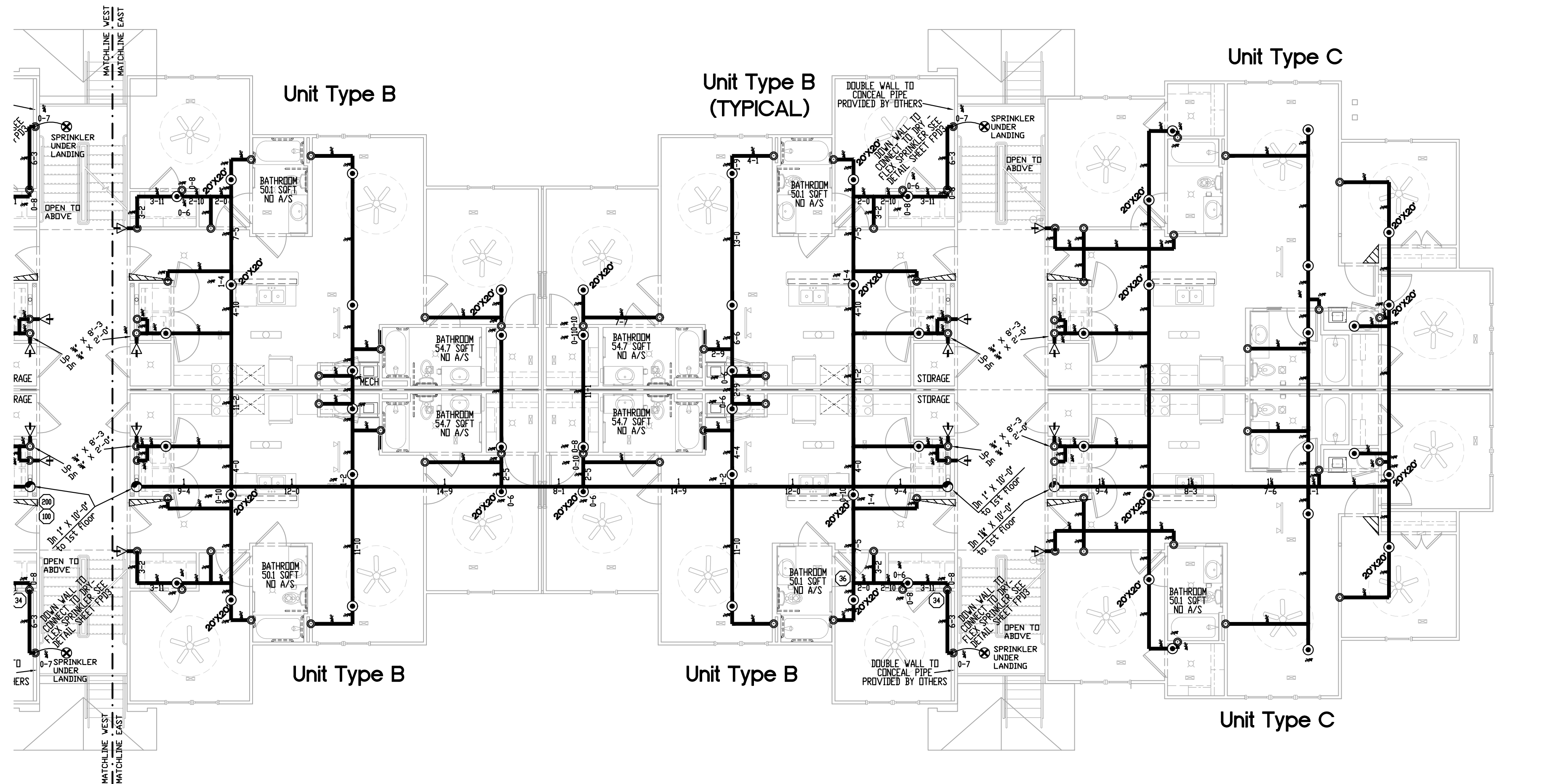
JACKSONVILLE, FL	TAMPA, FL	ORLANDO, FL
3808 CENTER PALM DRIVE JACKSONVILLE, FL 32216-2276 PHONE (904) 328-3272 FAX (904) 328-0764	3808 CENTER PALM DRIVE TAMPA, FL 33613-2277 PHONE (813) 830-3272 FAX (813) 830-0381	3808 CENTER PALM DRIVE ORLANDO, FL 32813-2277 PHONE (407) 858-3272 FAX (407) 858-0764

FT. MYERS, FL	CONCORD, NC	STATE LICENSES
4825 LINDSEY AVE. FT. MYERS, FL 33907-4824 PHONE (888) 428-2827 FAX (888) 428-2827	4825 LINDSEY AVE. CONCORD, NC 28027-6877 PHONE (704) 788-2827 FAX (704) 788-2827	STATE LICENSES NC SPRINKLER 87076 NC ALARM 88089 OF LV NC SPRINKLER 88 NC ALARM 3085

JUNIPER VILLAGE
 PARKER LANE
 LILLINGTON, NORTH CAROLINA

Wynnefield Properties
 5614 Riverdale Road
 Jamestown, NC 27282

SHEET TITLE: Building 300 1st Floor Fire Sprinkler Plan
 DRAWN BY: Donald Hawkins
 TOTAL A/S: 938
 DATE: 3-5-2021
 CONTRACT # 102001
 CENTER OF TILE JOINT: YES NO CENTER ON FIXTURES JOINT: YES NO
 SHEET # **FP3.1** CONSTRUCTION TYPE: V-B OCCUPANCY: R-2

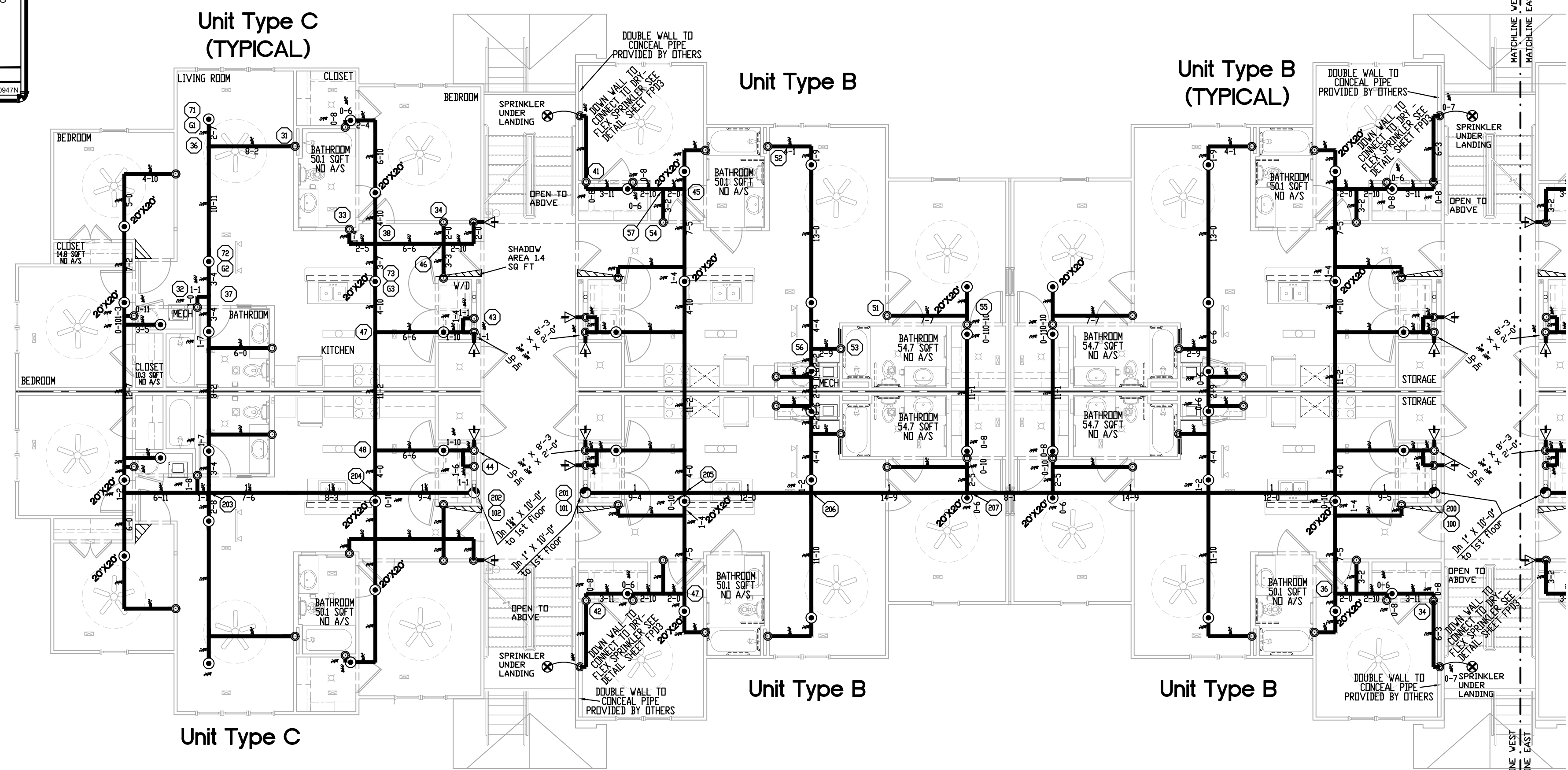


BUILDING 300 - 2nd FLOOR FIRE SPRINKLER LAYOUT (EAST)

14,732 Sq Ft

SCALE 1/8" = 1'-0"

DESIGN AREA 3.4	
2nd FLOOR UNIT C COMMON AREA	
COMPARTMENT DESIGN PER NFPA 13R, SECTION 7.1.1	
G1	16' W X 16' SPACING 16 GPM @ 13.3 PSI
G2	16' W X 16' SPACING 16 GPM @ 13.3
G3	20' X 20' SPACING 20 GPM @ 16.7
DENSITY: 0.5	
DOMESTIC DEMAND - 147 GPM	



BUILDING 300 - 2nd FLOOR FIRE SPRINKLER LAYOUT (WEST)

14,732 Sq Ft

SCALE 1/8" = 1'-0"

- NOTE:
- FOR FIRE SPRINKLER RISER DETAIL SEE SHEET FP03.
 - PIPE LENGTHS FOR TYPICAL UNITS AND UNITS WITHOUT HYDRAULIC CALCULATION POINTS HAVE BEEN OMITTED FOR CLARITY.
 - A 1 HOUR FIRE WALL IS PROVIDED BY OTHERS BETWEEN DWELLING UNITS.
 - CEILING IN UNITS ARE 8'-0" AFF UNLESS NOTED OTHERWISE.
 - THE RISER ROOM SHALL BE HEATED AND MAINTAINED AT NO LESS THAN 40° F. HEAT IS TO BE PROVIDED BY OTHERS.
 - HORIZONTAL SIDEWALL SPRINKLERS ON THE TOP FLOOR ARE SUPPLIED BY AN 1/2" X 8'-3" SECTION OF CPVC PIPE.

Christopher A. Williams
Level 3
Certification Number 115724
North Carolina Licence # 29745

IMPORTANT OWNER INFORMATION
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CPVC COMPATIBILITY NOTICE
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GRAPHICS ELEMENTS NOTE
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WATER SUPPLY INFORMATION

ACTUAL	DESIGN OR ESTIMATED AS REVISED BY A.U.D.	TEST	TEST
STATIC PRESSURE	80	TEST DATE	10/13/2021
RESIDUAL PRESSURE	68	TEST DATE	3/20/2024
FLOW IN GPM	1060	TEST DATE	3/20/2024
PITOT READING	40	NUMBER OF PORTS FLOWED	1

TEST PROVIDED BY: Lillington Fire Department
HYDRANT LOCATION: Parker Lane and North Main Street - Hydrant #224

DESIGN CRITERIA

DESIGN AREA #	DA 3.4
HAZARD CLASS	NFPA 13R
# OF SPRINKLERS IN DESIGN AREA	3
MINIMUM DENSITY	0.5
DESIGN AREA SF.	3 Sprinklers
PSI REQ'D @ BASE	45.8
GPM REQ'D @ BASE	30.5
PSI REQ'D @ TEST	57.7
GPM REQ'D @ TEST	197.1
ELEVATION @ HIGHEST SPRINKLER	27'-6" AFF
HOSE: INSIDE/OUTSIDE	
DOMESTIC DEMAND	147

SPRINKLERS SPACING

SYMBOL	MAXIMUM	MINIMUM	COMMENTS
⊙	18' x 18' UNID	8' BETWEEN SPRINKLERS	8'-0" MAX SPACING OFF WALLS UNID DEFLECTOR TO BE INSTALLED 1'-0" BELOW CEILING.
⊗	225 SQ FT	8' BETWEEN SPRINKLERS	8'-0" MAX SPACING OFF WALLS UNID DEFLECTOR TO BE INSTALLED 1'-0" BELOW CEILING.
⊠	16' x 16' UNID	8' BETWEEN SPRINKLERS	8'-0" MAX SPACING OFF WALLS UNID DEFLECTOR TO BE INSTALLED 1'-0" BELOW CEILING.
⊡	196 SQ FT	8' BETWEEN SPRINKLERS	8'-0" MAX SPACING OFF WALLS UNID DEFLECTOR TO BE INSTALLED 1'-0" BELOW CEILING.

QUANTITY - SPRINKLERS

SYMB	1ST	2ND	3RD	4TH	SIN	SIZE	K	TEMP	MODEL	
⊙	114	112	-	-	R3516	1/2"	49	175°	RELIABLE MODEL F1 R49 49 WHITE RESIDENTIAL PENDENT WITH WHITE SEMI-RECESSED ESCUTCHEON	
⊗	-	6	-	-	V3506	1"	56	200°	VICTORIAN MODEL V3506 WHITE QUICK RESPONSE BAY FLEXIBLE PENDENT SPRINKLER WITH WHITE ESCUTCHEON	
⊠	-	-	118	-	R3531	1/2"	44	175°	RELIABLE MODEL F1 R44 44 WHITE RESIDENTIAL HORIZ. SIDEWALL WITH WHITE SEMI-RECESSED ESCUTCHEON	
⊡	24	24	24	-	R5714	1"	56	200°	RELIABLE MODEL F1 R56 56 WHITE QUICK RESPONSE BAY HORIZONTAL SIDEWALL SPRINKLER WITH WHITE SLEEVE AND SKIRT ESCUTCHEON 12" LONG	
	138	142	142	-					TOTAL PER FLOOR	
									422	TOTAL THIS BUILDING

DATE SUBMITTALS BY

3-16-2021	QA Review	DH
2-1-2023	Permit	DH

NO. DATE REVISIONS BY

1	XX/XX/XX		
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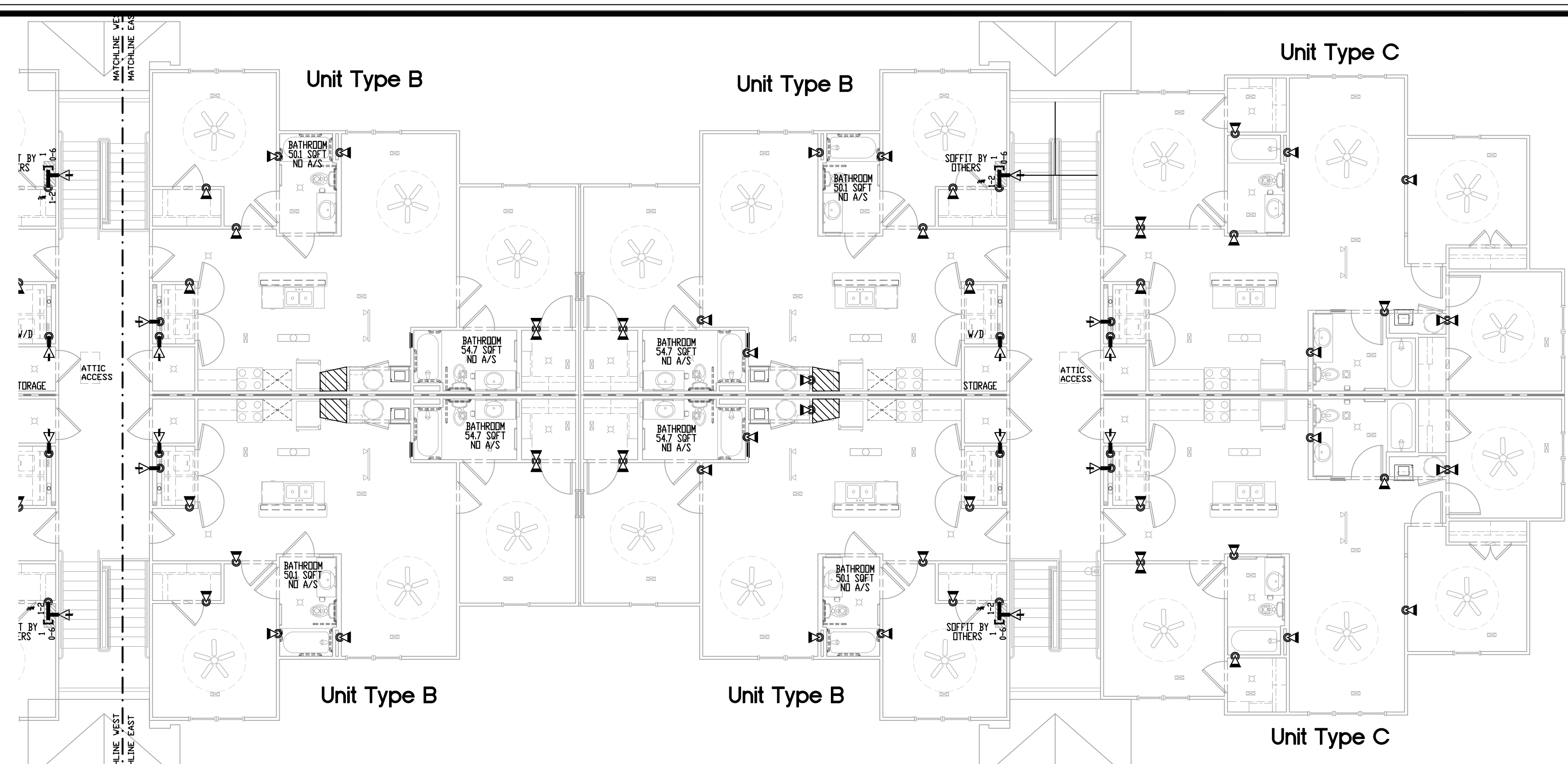
WAYNE Automatic Fire Sprinklers, Inc.
MAIN OFFICE - ORLANDO, FLORIDA
222 CAPITOL COURT, ORLANDO, FLORIDA 32781
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JACKSONVILLE, FL 3800 UNIVERSITY BLVD. SUITE 100 JACKSONVILLE, FL 32216-2277 PHONE: (904) 850-3242 FAX: (904) 850-0242	TAMPA, FL 3800 UNIVERSITY BLVD. SUITE 100 TAMPA, FL 33613-2277 PHONE: (813) 850-3242 FAX: (813) 850-0242	ORLANDO, FL 222 CAPITOL COURT ORLANDO, FL 32781 PHONE: (407) 858-3030 FAX: (407) 858-8028
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JUNIPER VILLAGE
PARKER LANE
LILLINGTON, NORTH CAROLINA

Wynnefield Properties
5614 Riverdale Road
Jamestown, NC 27282

SHEET TITLE: Building 300 2nd Floor Fire Sprinkler Plan
DRAWN BY: Donald Hawkins
TOTAL A/S: 938
DATE: 3-5-2021
AND: Town of Lillington
CONTRACT #: 102001
CENTER OF TITLE: YES NO **CENTER ON FIXTURES:** YES NO
SHEET #: FP3.2 **CONSTRUCTION TYPE:** V-B
OCCUPANCY: R-2



BUILDING 300 - 3rd FLOOR FIRE SPRINKLER LAYOUT (EAST)
 14,746 Sq Ft SCALE 1/8" = 1'-0"

UNIT B and C	
TOTAL FIXTURE LOAD PER ITEM	
NUMBER OF ITEMS	
BATH GROUPS W/ FLUSH TANK	2 6 12
BATH TUB OR SHOWER STALL	- 2 0
KITCHEN SINKS	1 2 2
LAVATORY	- 1 0
WATER CLOSET W/ FLUSH TANK	- 3 0
DISHWASHERS	1 1 1
WASHING MACHINES	1 2 2
TOTAL FIXTURE LOAD PER UNIT	17

	UNIT B	UNIT C
TOTAL FIXTURE LOAD PER UNIT	17	17
TOTAL UNITS PER BUILDING	24	12
TOTAL LOAD UNITS PER UNIT	408	204
TOTAL UNIT DEMAND PER BUILDING	612	
TOTAL DOMESTIC DEMAND PER BLDG IN GPM INTERPOLATION USED	147	

TABLES A.9.6 (a)/(b) DOMESTIC DEMAND
 SCALE: NONE
 0033N

W.A.C.E.T. Inc.
 Christopher A. Williams
 Licensed Professional Engineer
 North Carolina License # 29745

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GRAPHICS ELEMENTS NOTE
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WATER SUPPLY INFORMATION

STATIC PRESSURE	ACTUAL	DESIGN	TEST
80	80	80	80
RESIDUAL PRESSURE	68	68	68
FLOW IN GPM	1060	1060	1060
PITOT READING	40	40	40

TEST PROVIDED BY: Lillington Fire Department
 HYDRANT LOCATION: Parker Lane and North Main Street - Hydrant #224

DESIGN CRITERIA

DESIGN AREA #	HAZARD CLASS	MINIMUM DENSITY	DESIGN AREA SF.	PSI REQ'D @ 150°F	PSI REQ'D @ 175°F	PSI REQ'D @ 200°F	ELEVATION @ HIGHEST SPRINKLER	HEAD IN/OUTSIDE	DOMESTIC DEMAND
3.1	NFPA 13R	0.5	4	60.5	72.1	72.1	27'-6" AFF	INDOOR	147
3.2	NFPA 13R	0.5	4	60.5	72.1	72.1	27'-6" AFF	INDOOR	147
3.3	NFPA 13R	0.5	4	60.5	72.1	72.1	27'-6" AFF	INDOOR	147

SPRINKLERS SPACING

SYMBOL	MAXIMUM	MINIMUM	COMMENTS
⊙	18" x 18" UNID	8" BETWEEN SPRINKLERS	8" MAX SPACING OFF WALLS UNID DEFLECTOR TO BE INSTALLED 1" - 4" BELOW CEILING.
⊗	225 SQ FT	7" BETWEEN SPRINKLERS	7" MAX SPACING OFF WALLS UNID DEFLECTOR TO BE INSTALLED 1" - 12" BELOW CEILING.
⊙	18" x 18" UNID	8" BETWEEN SPRINKLERS	8" MAX SPACING OFF WALLS UNID DEFLECTOR TO BE INSTALLED 1" - 4" BELOW CEILING.
⊗	196 SQ FT	7" BETWEEN SPRINKLERS	7" MAX SPACING OFF WALLS UNID DEFLECTOR TO BE INSTALLED 1" - 6" BELOW CEILING.

SPRINKLERS

SYMB	QTY	1ST	2ND	3RD	4TH	SIN	SIZE	K	TEMP	MODEL
⊙	114	112	-	-	-	R3516	1 1/2"	49	175°	RELIABLE MODEL FT 184 49 WHITE RESIDENTIAL PENDENT WITH WHITE SEMI-RECESSED ESCUTCHEON
⊗	6	-	-	-	-	V3506	1"	56	200°	VICTORIAN MODEL V3506 WHITE QUICK RESPONSE BIFLEXIBLE PENDENT SPRINKLER WITH WHITE ESCUTCHEON
⊙	24	24	24	24	24	R3531	1 1/2"	44	175°	RELIABLE MODEL FT 184 44 WHITE RESIDENTIAL HORIZ. SIDEWALL WITH WHITE SEMI-RECESSED ESCUTCHEON
⊙	24	24	24	24	24	R5714	1"	56	200°	RELIABLE MODEL FOR WHITE QUICK RESPONSE BIFLEXIBLE SIDEWALL SPRINKLER WITH WHITE SLEEVE AND SKIRT ESCUTCHEON 12" LONG
TOTAL PER FLOOR: 138										
TOTAL THIS BUILDING: 422										

DATE **SUBMITTALS** **BY**

3-16-2021	QA Review	DH
2-1-2023	Permit	DH

NO. **DATE** **REVISIONS** **BY**

1	XX/XX/XX		
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W.A.C.E.T. Inc.
 Automatic Fire Sprinklers, Inc.
 MAIN OFFICE - ORLANDO, FLORIDA
 222 CAPITOL COURT OCOCEE, FLORIDA 34781
 PHONE (407) 858-3030 FAX (407) 858-8088

JACKSONVILLE, FL TAMPA, FL GERRITTS BEACH, FL
 3808 LORRY PALM DRIVE 4025 METRO DRIVE 4025 METRO DRIVE
 JACKSONVILLE, FL 32209-2746 TAMPA, FL 33607-0207 GERRITTS BEACH, FL 32146
 PHONE (904) 328-3274 PHONE (813) 830-0208 PHONE (904) 871-4624
 FAX (904) 328-0764 FAX (813) 830-0281 FAX (904) 871-4624

FT. MYERS, FL CONCORD, NC STATE LICENSE
 4825 LINDSEY AVE. 4025 METRO DRIVE NC SPRINKLER SYSTEMS
 FT. MYERS, FL 33909-4804 CONCORD, NC 28027-6877 NC ALARM 8888 OF LV
 PHONE (888) 422-2022 PHONE (704) 788-2022 FAX (704) 788-2022
 FAX (888) 422-2022 FAX (704) 788-2022 NC ALARM 3005

JUNIPER VILLAGE
 PARKER LANE
 LILLINGTON, NORTH CAROLINA

Wynnefield Properties
 5614 Riverdale Road
 Jamestown, NC 27282

SHEET TITLE: Building 300 3rd Floor Fire Sprinkler Plan
DRAWN BY: Donald Hawkins
TOTAL A/S: 938
DATE: 3-5-2021
CONTRACT #: 102001
CENTER OF TILE JOINT: YES NO **CENTER ON FIXTURES:** YES NO

FP3.3

DESIGN AREA 3.1
 3rd FLOOR UNIT C COMMON AREA
 COMPARTMENT DESIGN PER NFPA 13R,
 SECTION 7.1.1

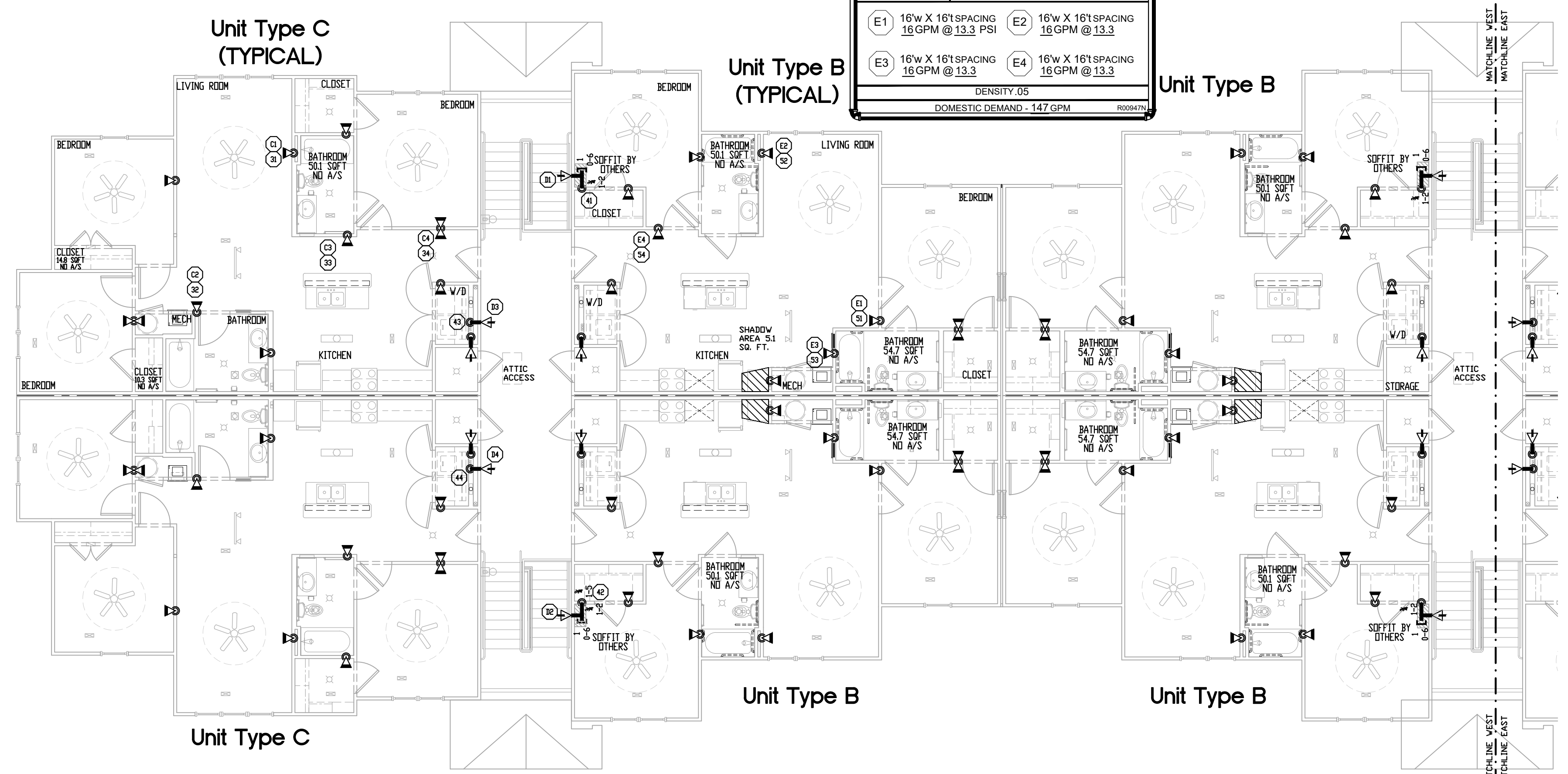
C1	16'w X 16' SPACING 16GPM @ 13.3 PSI	C2	16'w X 16' SPACING 16GPM @ 13.3
C3	16'w X 16' SPACING 16GPM @ 13.3	C4	16'w X 16' SPACING 16GPM @ 13.3

DENSITY: 0.5
 DOMESTIC DEMAND - 147 GPM

DESIGN AREA 3.2
 3rd FLOOR OUTSIDE DWELLING UNIT
 DESIGN PER NFPA 13R,
 SECTION 7.2

D1	122 FT ² 10 DENSITY @ 7 PSI	D2	122 FT ² 10 DENSITY @ 7 PSI
D3	122 FT ² 10 DENSITY @ 7 PSI	D4	122 FT ² 10 DENSITY @ 7 PSI

DENSITY: 10
 DOMESTIC DEMAND - 147 GPM



BUILDING 300 - 3rd FLOOR FIRE SPRINKLER LAYOUT (WEST)
 14,746 Sq Ft SCALE 1/8" = 1'-0"

- NOTE:
- FOR FIRE SPRINKLER RISER DETAIL SEE SHEET FP03.
 - PIPE LENGTHS FOR TYPICAL UNITS AND UNITS WITHOUT HYDRAULIC CALCULATION POINTS HAVE BEEN OMITTED FOR CLARITY.
 - A 1 HOUR FIRE WALL IS PROVIDED BY OTHERS BETWEEN DWELLING UNITS.
 - CEILING IN UNITS ARE 8'-0" AFF UNLESS NOTED OTHERWISE.
 - THE RISER ROOM SHALL BE HEATED AND MAINTAINED AT NO LESS THAN 40°.
 - GREAT IS TO BE PROVIDED BY OTHERS.
 - HORIZONTAL SIDEWALL SPRINKLERS ON THE TOP FLOOR ARE SUPPLIED BY AN 1/2" X 8'-3" SECTION OF CPVC PIPE.

- DESIGN AND INSTALLATION TO BE IN ACCORDANCE WITH 2013 EDITION OF NFPA 13R AND 2013 EDITION OF NFPA 13 WHERE DESIGNATED BY NFPA 13R.
- DESIGN AND INSTALLATION TO BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES.
- ALL PIPE AND FITTINGS USED ON THIS PROJECT TO BE IN ACCORDANCE WITH APPLICABLE CODES AND WAFFS STANDARDS. SEE PIPE AND FITTINGS GENERAL NOTES (WAFFS DETAIL #00699N).
- ALL HANGERS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13 AND THEIR LISTING.
- ALL SEISMIC BRACING, IF REQUIRED, SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13 AND THEIR LISTING.
- ALL PENETRATIONS THROUGH RATED BUILDING ASSEMBLIES SHALL BE SEALED WITH FIRE CAULK IN ACCORDANCE WITH DETAILS PROVIDED. WAFFS POLICY IS TO USE HILTI FS ONE OR STI LC.
- UNDERGROUND MAINS AND LEAD-INS SHALL BE FLUSHED AND SIGNED TEST CERTIFICATES PROVIDED BEFORE A CONNECTION IS MADE TO THE SPRINKLER SYSTEM.
- ALL PIPING SHALL BE INSPECTED AND APPROVED BY PROPER AUTHORITIES PRIOR TO COVERING WITH DRYWALL. COPIES OF SIGNED TEST CERTIFICATES ARE TO BE FORWARDED TO THE PROPER RECIPIENTS.
- ALL SYSTEMS SHALL BE TESTED AT 500 PSI FOR 2 HOURS.
- ALL OFFSETS REQUIRED TO CONCEAL SPRINKLER PIPING ARE BY OTHERS.
- ALL WIRING OF DEVICES (FLOW SWITCHES, TAMPER SWITCHES, COMPRESSORS, ETC) IS BY OTHERS.
- CONNECTION OF SPRINKLER DEVICES TO THE BUILDING ALARM OR MONITORING SYSTEM IS BY OTHERS.
- ALL PAINTING OF PIPE AS REQUIRED IS BY OTHERS.
- ALL INSULATION REQUIRED FOR FREEZE PROTECTION OF SPRINKLER PIPING IS BY OTHERS.
- HEATING OF ROOMS TO MAINTAIN TEMPERATURES OF 40 DEGREES OR GREATER IS BY OTHERS.
- FIRE DEPARTMENT CONNECTIONS SHALL BE LOCATED NOT LESS THAN 18" AND NOT MORE THAN 48" ABOVE THE LEVEL OF THE ADJACENT GRADE.
- SPRINKLERS SHALL NOT BE INSTALLED PRIOR TO THE FITTINGS BEING CEMENTED IN PLACE.
- ALL SPRINKLERS IN DWELLING UNITS SHALL BE UL LISTED OR FM APPROVED RESIDENTIAL SPRINKLERS.
- ALL SPRINKLERS OUTSIDE OF DWELLING UNITS SHALL BE QUICK RESPONSE, RESIDENTIAL SPRINKLERS SHALL BE ALLOWED AS PER NFPA 13R SECTION 6.4.7.
- SPARE SPRINKLERS OF EACH TYPE, TEMPERATURE RATING AND ORIFICE SIZE AND APPROPRIATE WRENCH OR WRENCHES SHALL BE LEFT ON THE PREMISES ON A SINGLE PROPERTY UNDER THE SAME OWNERSHIP. SPRINKLERS WILL BE PROVIDED IN A SINGLE LOCATION.
- REFER TO SPACING NOTES ON PLANS FOR MAXIMUM CALCULATED SPACING ALLOWANCES.
- SPRINKLERS SHALL BE PROVIDED IN ALL OPEN ENDED CORRIDORS THAT ARE NOT SEPARATED FROM THE EXIT STAIRS PER IBC/NEC/IFC 903.2.1.2.
- SPRINKLERS SHALL BE INSTALLED IN ALL AREAS EXCEPT AS FOLLOWS:
 - BATHROOMS WHERE THE AREA DOES NOT EXCEED 55 SQ FT (INCLUDING TUBS AND SHOWERS).
 - CLOTHES CLOSETS, LINEN CLOSETS AND PANTRIES WITHIN THE DWELLING UNITS THAT DO NOT EXCEED 24 SQUARE FEET, THE LEAST DIMENSION DOES NOT EXCEED 9 FEET, AND THE WALLS AND CEILING ARE SURFACED WITH NONCOMBUSTIBLE OR LIMITED-COMBUSTIBLE MATERIALS AS DEFINED BY NFPA 220, STANDARD ON TYPES OF BUILDING CONSTRUCTION.
 - ANY PORCHES, BALCONIES (EXCEPT THOSE OF TYPE V CONSTRUCTION), CORRIDORS, AND STAIRS THAT ARE OPEN AND ATTACHED.
 - ATTICS, PENTHOUSE EQUIPMENT ROOMS, ELEVATOR MACHINE ROOMS, CONCEALED SPACES DEDICATED EXCLUSIVELY TO AND CONTAINING ONLY DWELLING UNIT VENTILATION EQUIPMENT, CRAWL SPACES, FLOOR/CEILING SPACES, NONCOMBUSTIBLE ELEVATOR SHAFTS WHERE THE ELEVATOR CARS COMPLY WITH ANSI A77-1 AND OTHER CONCEALED SPACES THAT ARE NOT USED OR INTENDED FOR LIVING PURPOSES OR STORAGE AND DO NOT CONTAIN FUEL-FIRED EQUIPMENT.
 - CLOSETS ON EXTERIOR BALCONIES AND EXTERIOR BREEZEWAYS/CORRIDORS, REGARDLESS OF SIZE OR CONTENTS, AS LONG AS THERE ARE NO DOORS OR UNPROTECTED PENETRATIONS FROM THE CLOSET DIRECTLY INTO THE DWELLING UNIT.
 - CEILING POCKETS THAT MEET THE FOLLOWING REQUIREMENTS:
 - THE TOTAL VOLUME OF THE UNPROTECTED CEILING POCKET DOES NOT EXCEED 100 CU FT.
 - THE DEPTH OF THE UNPROTECTED CEILING POCKET DOES NOT EXCEED 12 IN.
 - THE ENTIRE FLOOR OF THE UNPROTECTED CEILING POCKET IS PROTECTED BY THE SPRINKLERS AT THE LOWER CEILING ELEVATIONS.
 - THE INTERIOR FINISH OF THE UNPROTECTED CEILING POCKET IS NONCOMBUSTIBLE OR LIMITED-COMBUSTIBLE CONSTRUCTION.
- WAFFS TO PROVIDE ALL REQUIRED SIGNAGE PER NFPA 13R INCLUDING BUT NOT LIMITED TO VALVES, AND HYDRAULIC PLACARDS.

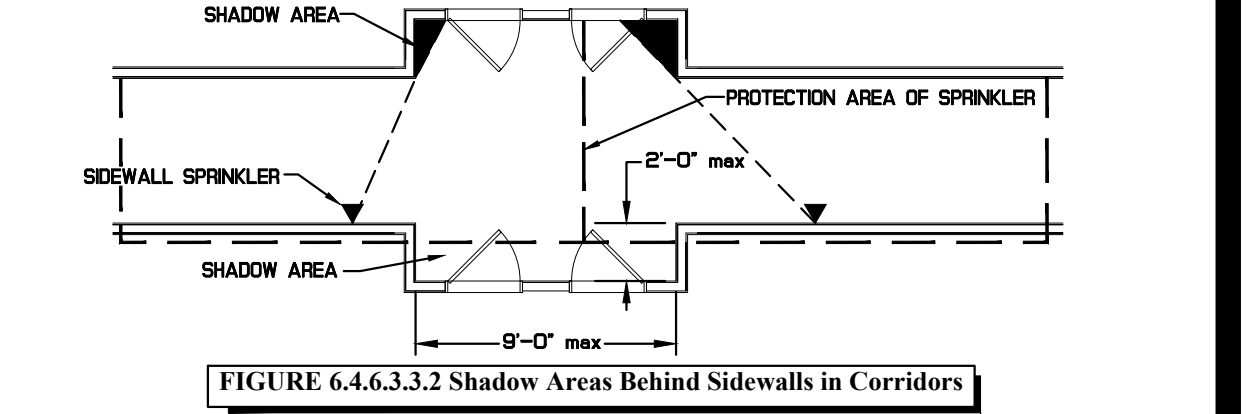
NFPA 13R 2013 GENERAL NOTES
 SCALE: NONE
 Wayne Automatic Fire Sprinklers, Inc.

- ALL MATERIAL APPLICABLE TO THIS PROJECT WILL BE INDICATED WITH A ()**
- ALL PLASTIC PIPE 3/4" THROUGH 2 1/2" SHALL BE UL LISTED OR FM APPROVED CPVC MANUFACTURED IN ACCORDANCE WITH ASTM F-442.
 - ALL PLASTIC FITTINGS SHALL BE UL LISTED OR FM APPROVED CPVC MANUFACTURED IN ACCORDANCE WITH ASTM F438, ASTM F439 OR ASTM F1970.
 - ALL CPVC PIPE AND FITTINGS SHALL BE ASSEMBLED USING 'ONE STEP' 500 CEMENT.
 - CPVC PIPE SHALL BE ALLOWED TO BE USED IN ORDINARY HAZARD ROOMS OF 400 SQUARE FEET OR LESS OF OTHERWISE LIGHT HAZARD OCCUPANCIES (NFPA 13 SECTION 6.3.6.2 OR NFPA 13R SECTION 5.2.2.3).
 - ALL 1" TO 2" THREADED GALVANIZED PIPE WILL BE SCHEDULE 40 HOT DIPPED GALVANIZED MANUFACTURED IN ACCORDANCE WITH ASTM A-795 OR ASTM A-53.
 - ALL 1" TO 2" THREADED BLACK STEEL PIPE SHALL BE UL LISTED/FM APPROVED AND MANUFACTURED IN ACCORDANCE WITH ASTM A-193 OR A-795, ACCEPTABLE PIPE BRANDS ARE WHEATLAND 'MEDIATHREAD', ALLEED 'DYNA-FLOW', BULL MOOSE TUBE 'EDDYFLOW', WHEATLAND 'STEADY-THREAD'. ALL PIPE SHALL BE CPVC COMPATIBLE.
 - ALL 1/4" TO 4" GROOVED BLACK STEEL PIPE SHALL BE UL LISTED/FM APPROVED AND MANUFACTURED IN ACCORDANCE WITH ASTM A795, ACCEPTABLE BRANDS ARE BULL MOOSE 'EDDYFLOW', WHEATLAND 'MEDIATHREAD', ALLEED 'DYNA-FLOW' AND WELDED TUBE-BERKELEY 'STEADY-THREAD'. ALL PIPE SHALL BE CPVC COMPATIBLE.
 - ALL 1/4" TO 4" GROOVED BLACK STEEL PIPE SHALL BE SCHEDULE 10 UL LISTED/FM APPROVED AND MANUFACTURED IN ACCORDANCE WITH ASTM A-795, ACCEPTABLE MANUFACTURERS ARE BULL MOOSE, WHEATLAND, ALLEED AND WELDED TUBE-BERKELEY. ALL PIPE SHALL BE CPVC COMPATIBLE.
 - ALL GROOVED STEEL PIPE 6" AND LARGER SHALL BE SCHEDULE 10 HOT DIPPED GALVANIZED AND MANUFACTURED IN ACCORDANCE WITH ASTM A-795.
 - ALL GROOVED STEEL PIPE 1/4" AND LARGER SHALL BE SCHEDULE 10 HOT DIPPED GALVANIZED AND MANUFACTURED IN ACCORDANCE WITH ASTM A-795.
 - ALL STEEL PIPE SHALL HAVE A CORROSION RESISTANCE RATIO (CRR) OF NOT LESS THAN 10 PER WAFFS STANDARDS.
 - ALL BLACK THREADED FITTINGS SHALL BE DUCTILE IRON CLASS 150 OR CLASS 300 ANSI B16.3, CAST IRON CLASS 150 OR CLASS 250 ANSI B16.4 OR MALLEABLE IRON CLASS 150 OR CLASS 300 ANSI B16.3.
 - ALL GALVANIZED THREADED FITTINGS SHALL BE MALLEABLE IRON CLASS 150 OR CLASS 300 ANSI B16.3 WITH GALVANIZED COATING IN ACCORDANCE WITH ASTM A-153.
 - ALL WELDED OUTLETS SHALL BE UL LISTED OR FM APPROVED AND MANUFACTURED IN ACCORDANCE WITH ANSI B16.1.
 - GROOVED FITTINGS SHALL BE UL LISTED OR FM APPROVED AND MANUFACTURED IN ACCORDANCE WITH ASTM A-538 FOR DUCTILE IRON OR ASTM A-47 FOR MALLEABLE IRON.
 - ALL GALVANIZED GROOVED FITTINGS SHALL BE UL LISTED OR FM APPROVED AND MANUFACTURED IN ACCORDANCE WITH ASTM A-538 FOR DUCTILE IRON OR ASTM A-47 FOR MALLEABLE IRON. GALVANIZED COATING SHALL BE IN ACCORDANCE WITH ASTM A-153.
 - ALL GROOVED STEEL PIPE SHALL BE ROLL GROOVED PER PIPE MANUFACTURER REQUIREMENTS.

SHADOWED FLOOR AREA NOTES (BASED ON NFPA 13R 2013 EDITION)
 SCALE: NONE
 Wayne Automatic Fire Sprinklers, Inc.

IN REGARDS TO OBSTRUCTIONS AND SHADOWED FLOOR AREAS, PLEASE NOTE THE FOLLOWING EXCEPTS FROM NFPA 13R 2013 EDITION:

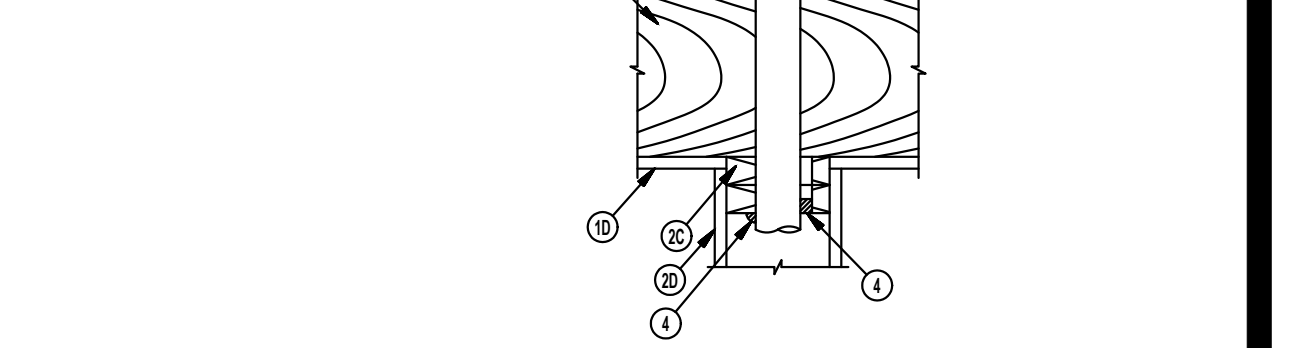
- 6.4.6.3.3.1 SHADOW AREAS SHALL BE PERMITTED IN THE PROTECTION AREA OF A SPRINKLER AS LONG AS THE CUMULATIVE DRY AREAS DO NOT EXCEED 15 FT² (1.4 M²) PER SPRINKLER.
- 6.4.6.3.3.2 SHADOW AREAS IN CORRIDORS UP TO 2 FT (0.61 M) IN DEPTH AND UP TO 9 FT (2.7 M) IN LENGTH BEHIND SIDEWALL SPRINKLERS SHALL BE PERMITTED AS SHOWN IN FIGURE 6.4.6.3.3.2.



- 6.4.6.3.3.3 SMALL AREAS CREATED BY ARCHITECTURAL FEATURES SUCH AS PLANTER BOX WINDOWS, BAY WINDOWS, AND SIMILAR FEATURES SHALL BE EVALUATED AS FOLLOWS:
 - WHERE NO ADDITIONAL FLOOR AREA IS CREATED BY AN ARCHITECTURAL FEATURE, NO ADDITIONAL SPRINKLER PROTECTION IS REQUIRED.
 - WHERE ADDITIONAL FLOOR AREA IS CREATED BY AN ARCHITECTURAL FEATURE, NO ADDITIONAL SPRINKLER PROTECTION IS REQUIRED, PROVIDED ALL OF THE FOLLOWING CONDITIONS ARE MET:
 - THE FLOOR AREA SHALL NOT EXCEED 18 FT² (1.7 M²).
 - THE FLOOR AREA SHALL NOT BE GREATER THAN 2 FT (0.65 M) IN DEPTH AT THE DEEPEST POINT OF THE ARCHITECTURAL FEATURE TO THE PLANE OF THE PRIMARY WALL WHERE MEASURED ALONG THE FINISHED FLOOR.
 - THE FLOOR SHALL NOT BE GREATER THAN 9 FT (2.7 M) IN LENGTH WHERE MEASURED ALONG THE PLANE OF THE PRIMARY WALL.
 - MEASUREMENT FROM THE DEEPEST POINT OF THE ARCHITECTURAL FEATURE TO THE SPRINKLER SHALL NOT EXCEED THE MAXIMUM LISTED SPACING OF THE SPRINKLER.
 - THE HYDRAULIC DESIGN SHALL NOT BE REQUIRED TO CONSIDER THE AREA CREATED BY THE ARCHITECTURAL FEATURE.

SHADOWED FLOOR AREA NOTES (BASED ON NFPA 13R 2013 EDITION)
 SCALE: NONE
 Wayne Automatic Fire Sprinklers, Inc.

System No. F-C-2270
F Rating - 1 Hr
T Rating - 1 Hr



- FLOOR-CEILING ASSEMBLY - THE FIRE-RATED SOLID OR TRUSSED LUMBER JOIST FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN INDIVIDUAL U300 SERIES FLOOR-CEILING DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY. THE GENERAL CONSTRUCTION DETAILS OF THE FLOOR-CEILING ASSEMBLY ARE SUMMARIZED BELOW:
 - FLOORING SYSTEM - LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD OR FLOOR TOPPING MATERIALS AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. MAX DIAM OF FLOOR OPENING IS 3 IN.
 - WOOD JOISTS - NOM 2 BY 10 IN LUMBER JOISTS SPACED 16 IN OC WITH NOM 1 BY 3 IN LUMBER BRIDGING AND WITH ENDS FIRESTOPPED AS AN ALTERNATE TO LUMBER JOISTS, NOM 10 IN DEEP (OR DEEPER) LUMBER STEEL OR COMBINATION LUMBER AND STEEL JOISTS, TRUSSES OR STRUCTURAL WOOD MEMBERS* WITH BRIDGING AS REQUIRED WITH ENDS FIRESTOPPED.
 - CHASE WALLS - (NOT SHOWN) - RESILIENT GALV STEEL FURRING INSTALLED PERPENDICULAR TO WOOD JOISTS (ITEM 1B) BETWEEN WALLBOARD (ITEM 1D) AND WOOD JOISTS AS REQUIRED IN THE INDIVIDUAL FLOOR-CEILING DESIGN.
 - CHASE WALLS - NOM 4 FT WIDE BY 5/8 IN THICK AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. THROUGH PENETRANT (ITEM 3) SHALL BE ROUTED THROUGH A 1 HR FIRE-RATED SINGLE DOUBLE OR STAGGERED WOOD STUD/GYPSUM WALLBOARD CHASE WALL CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - STUDS - NOM 2 BY 4 IN LUMBER STUDS.
 - GYPSUM BOARD - NOM 2 BY 4 IN LUMBER PLATES, MAX DIAM OF OPENING IS 3 IN.
 - FRONT PLATE - THE DOUBLE TOP PLATE SHALL CONSIST OF TWO NOM 2 BY 4 IN LUMBER PLATES, MAX DIAM OF OPENING IS 3 IN.
 - WALL AND PARTITION DESIGN.
 - THROUGH PENETRANTS - ONE NONMETALLIC PIPE CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN THE PIPE AND PERIPHERY OF THE OPENING SHALL BE A MIN 0 IN (POINT CONTACT) TO A MAX 5/8 IN PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR-CEILING ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES MAY BE USED:
 - CHARLONATED POLYVINYL CHLORIDE (CPVC) PIPE - NOM 2 IN DIAM (OR SMALLER) FLOWGUARD GOLD® SR15 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
 - CHARLONATED POLYVINYL CHLORIDE (CPVC) PIPE - NOM 2 IN DIAM (OR SMALLER) BLAZEMASTER® SR1315 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
- FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 3/4 IN THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR AND FLUSH WITH BOTTOM SURFACE OF LOWER TOP PLATE. AT POINT CONTACT LOCATION, A MIN 1/2 IN DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED FLUSH WITH BOTTOM SURFACE OF LOWER TOP PLATE.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-DNE SEALANT
 *BEARING THE UL CLASSIFICATION MARK

Hilti Firestop Systems
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CLASSIFIED
 UL

WAYNE
 Automatic Fire Sprinklers, Inc.
 FIRE CAULK - HILTI SYSTEM No. F-C-2270
 UP TO 2" CPVC & WOOD FLOOR TRUSS - 1-HOUR
 SCALE: NONE

CURE TIMES WITH ONE STEP SOLVENT CEMENT
 200 PSI (MAXIMUM) TEST PRESSURE (SEE NOTE 1)

PIPE SIZE INCHES	AMBIENT TEMPERATURE DURING CURE PERIOD		
	60°F TO 120°F	40°F TO 59°F	0°F TO 39°F
3/4"	45 MIN.	1.5 HR.	24 HR.
1"	45 MIN.	1.5 HR.	24 HR.
1 1/4"	1.5 HR.	16 HR.	120 HR.
1 1/2"	1.5 HR.	16 HR.	120 HR.
2"	6 HR.	36 HR.	SEE NOTE 2
2 1/2"	8 HR.	72 HR.	SEE NOTE 2
3"	8 HR.	72 HR.	SEE NOTE 2

CURE TIMES WITH ONE STEP SOLVENT CEMENT
 225 PSI (MAXIMUM) TEST PRESSURE (SEE NOTE 1)

PIPE SIZE INCHES	AMBIENT TEMPERATURE DURING CURE PERIOD		
	60°F TO 120°F	40°F TO 59°F	0°F TO 39°F
3/4"	1 HR.	4 HR.	48 HR.
1"	1.5 HR.	4 HR.	48 HR.
1 1/4"	3 HR.	32 HR.	10 DAYS
1 1/2"	3 HR.	32 HR.	10 DAYS
2"	8 HR.	48 HR.	SEE NOTE 2
2 1/2"	24 HR.	96 HR.	SEE NOTE 2
3"	24 HR.	96 HR.	SEE NOTE 2

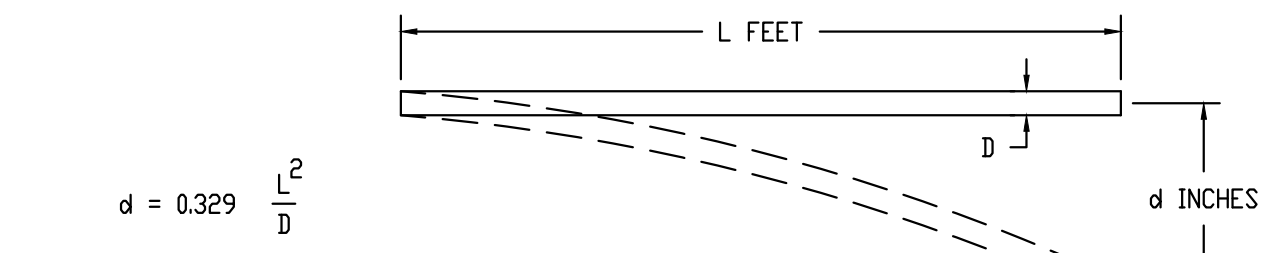
NOTE 1: THESE CURE TIMES ARE FOR NEW CONSTRUCTION. IF GLUING INTO EXISTING PIPING, SUCH AS IN THE CASE OF CUT-INS, CURE TIME SHOULD BE A MINIMUM OF 24 HOURS.

NOTE 2: FOR THESE SIZES, THE SOLVENT CEMENT CAN BE APPLIED AT TEMPERATURES BELOW 32°F, HOWEVER, THE SPRINKLER SYSTEM TEMPERATURE MUST BE RAISED TO A TEMPERATURE OF 32°F OR ABOVE AND ALLOWED TO CURE PER THE ABOVE RECOMMENDATIONS PRIOR TO PRESSURE TESTING.

TYPICAL CPVC CURE TIMES
 SCALE: NONE
 Wayne Automatic Fire Sprinklers, Inc.

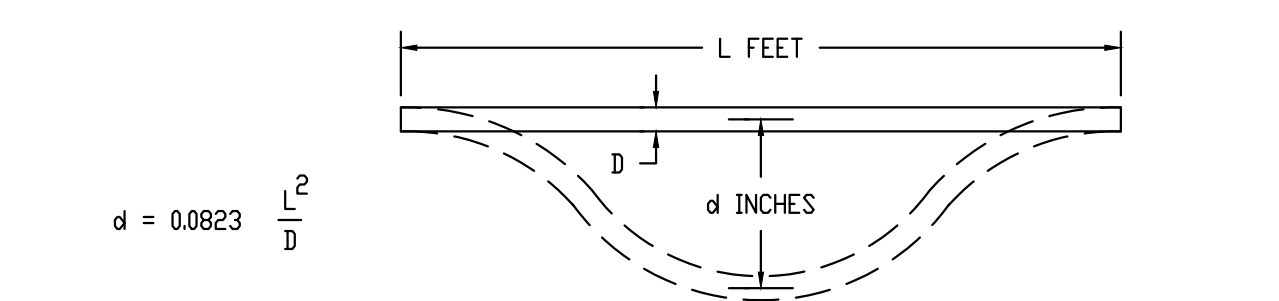
PERMISSIBLE BENDING DEFLECTIONS SDR 13.5 (73°F)
 (ONE END RESTRAINED)

PIPE SIZE INCHES	LENGTH OF RUN (L) IN FEET							
	2'	5'	7'	10'	12'	15'	17'	20'
3/4"	1.3"	7.8"	15.4"	31.3"	45.1"	70.5"	90.6"	125.4"
1"	1.0"	6.3"	12.3"	25.0"	36.0"	56.3"	72.3"	100.1"
1 1/4"	0.8"	5.0"	9.7"	19.8"	28.5"	44.6"	57.3"	79.3"
1 1/2"	0.7"	4.3"	8.5"	17.3"	24.9"	39.0"	50.1"	69.3"
2"	0.6"	3.5"	6.8"	13.9"	20.0"	31.2"	40.0"	55.4"
2 1/2"	0.5"	2.9"	5.6"	11.4"	16.5"	25.8"	33.1"	45.8"
3"	0.4"	2.4"	4.6"	9.4"	13.5"	21.2"	27.2"	37.6"



PERMISSIBLE BENDING DEFLECTIONS SDR 13.5 (73°F)
 (BOTH ENDS RESTRAINED)

PIPE SIZE INCHES	LENGTH OF RUN (L) IN FEET							
	2'	5'	7'	10'	12'	15'	17'	20'
3/4"	0.3"	2.0"	3.8"	7.8"	11.3"	17.6"	22.6"	31.3"
1"	0.3"	1.6"	3.1"	6.3"	9.0"	14.1"	18.1"	25.0"
1 1/4"	0.2"	1.2"	2.4"	5.0"	7.1"	11.2"	14.3"	19.8"
1 1/2"	0.2"	1.1"	2.1"	4.3"	6.2"	9.7"	12.5"	17.3"
2"	0.1"	0.9"	1.7"	3.5"	5.0"	7.8"	10.0"	13.9"
2 1/2"	0.1"	0.7"	1.4"	2.9"	4.1"	6.4"	8.3"	11.4"
3"	0.1"	0.6"	1.2"	2.4"	3.4"	5.3"	6.8"	9.4"



CPVC BENDING DEFLECTIONS
 SCALE: NONE
 Wayne Automatic Fire Sprinklers, Inc.

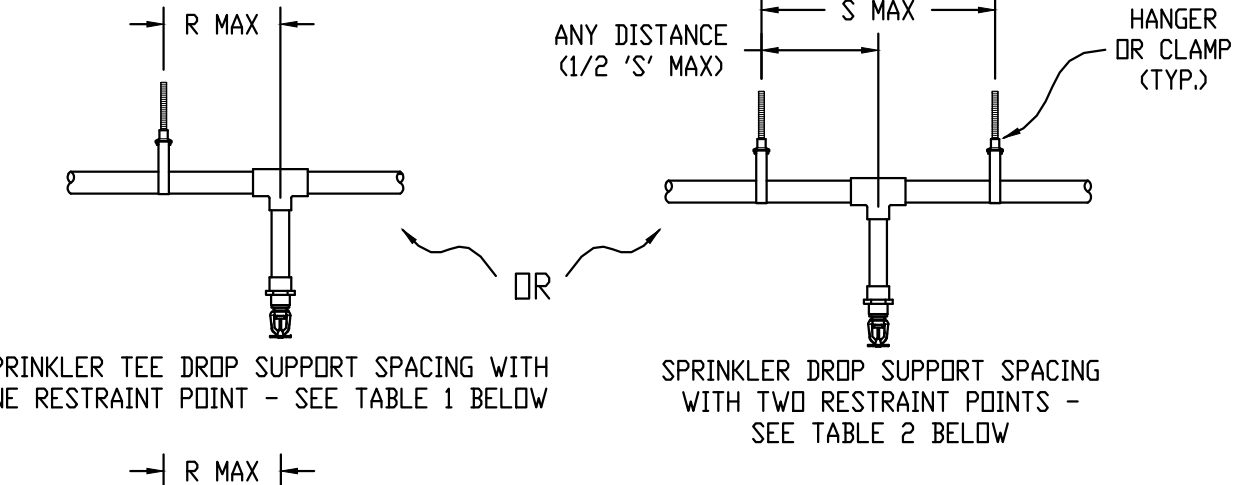


TABLE 1 - SPRINKLER SUPPORT SPACING DISTANCE WITH ONE RESTRAINT POINT

NDM PIPE SIZE	'R' @ LESS THAN 100 PSI		'S' @ GREATER THAN 100 PSI	
	1 INCH	1 1/4 INCH	1 1/2 INCH	2 INCH
3/4 INCH	1'-0"	1'-0"	1'-0"	1'-0"
1 INCH	1'-0"	1'-0"	1'-0"	1'-0"
1 1/4 INCH	1'-0"	1'-0"	1'-0"	1'-0"
1 1/2 INCH	1'-0"	1'-0"	1'-0"	1'-0"
2 INCH	1'-0"	1'-0"	1'-0"	1'-0"

TABLE 2 - SPRINKLER SUPPORT SPACING DISTANCE WITH TWO RESTRAINT POINTS

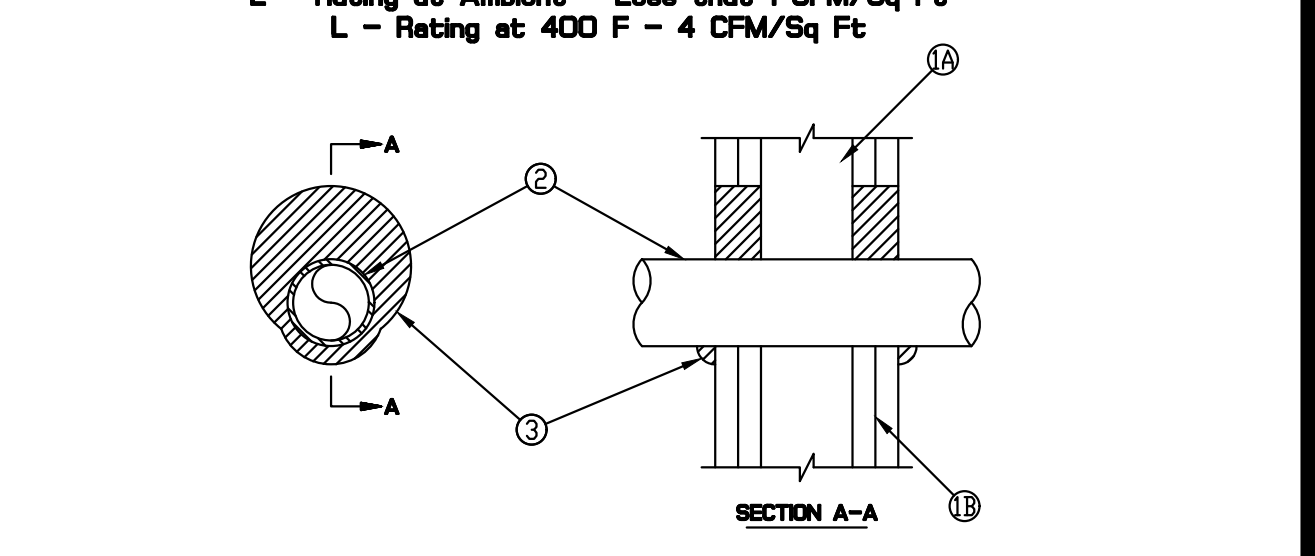
NDM PIPE SIZE	'R' @ LESS THAN 100 PSI		'S' @ GREATER THAN 100 PSI	
	1 INCH	1 1/4 INCH	1 1/2 INCH	2 INCH
3/4 INCH	4'-0"	4'-0"	3'-0"	3'-0"
1 INCH	5'-0"	5'-0"	4'-0"	4'-0"
1 1/4 INCH	6'-0"	6'-0"	5'-0"	5'-0"
1 1/2 INCH	7'-0"	7'-0"	6'-0"	6'-0"
2 INCH	7'-0"	7'-0"	6'-0"	6'-0"

TABLE 3 - MAXIMUM SUPPORT SPACING

NDM PIPE SIZE	3/4 INCH	1 INCH	1 1/4 INCH	1 1/2 INCH	2 INCH	2 1/2 INCH	3 INCH
SUPPORT SPACING 'L'	5'-6"	6'-0"	6'-6"	7'-0"	8'-0"	9'-0"	10'-0"

TYPICAL CPVC HANGER/BRACE SPACING
 SCALE: NONE
 Wayne Automatic Fire Sprinklers, Inc.

System No. W-L-2377
F Rating - 1 and 2 Hr (See Items 1 and 3)
T Rating - 1 and 2 Hr (See Items 1 and 3)
L - Rating at Ambient - Less than 1 CFM/Sq Ft
L - Rating at 400 F - 4 CFM/Sq Ft



- WALL ASSEMBLY - THE 1 AND 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - STUDS - WALL FRAMING SHALL CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS, WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN LUMBER SPACED 16 IN OC, STEEL STUDS TO BE MIN 2-1/2 IN WIDE BY 1-3/8 IN DEEP CHANNELS SPACED MAX 24 IN OC.
 - GYPSUM BOARD - THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 3 IN.
 - THROUGH PENETRANT - ONE NONMETALLIC PIPE CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE AND PERIPHERY OF OPENING SHALL BE MIN 0 IN (POINT CONTACT) TO A MAX 1-1/4 IN PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES MAY BE USED:
 - CHARLONATED POLYVINYL CHLORIDE (CPVC) PIPE - NOM 2 IN DIAM (OR SMALLER) FLOWGUARD GOLD® SR15 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
 - CHARLONATED POLYVINYL CHLORIDE (CPVC) PIPE - NOM 2 IN DIAM (OR SMALLER) BLAZEMASTER® SR1315 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
- FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 5/8 IN AND 1-1/4 IN THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL FOR 1 AND 2 HR RATED ASSEMBLIES, RESPECTIVELY. AT POINT CONTACT LOCATION, A MIN 1/2 IN DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED TO THE WALL/PENETRANT INTERFACE ON BOTH SURFACES OF THE WALL.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-DNE SEALANT
 *BEARING THE UL CLASSIFICATION MARK

Hilti Firestop Systems
 Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. June 20, 2000

CLASSIFIED
 UL

WAYNE
 Automatic Fire Sprinklers, Inc.
 FIRE CAULK - HILTI SYSTEM No. W-L-2377
 UP TO 2" CPVC & DRYWALL - 1 TO 2-HOUR
 SCALE: NONE

IMPORTANT OWNER INFORMATION
 THE DRAWING IS BASED ON THE OWNER'S ACCEPTANCE OF THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL INFORMATION NECESSARY FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL INFORMATION NECESSARY FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL INFORMATION NECESSARY FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT.

CPVC COMPATIBILITY NOTICE
 CPVC PIPE AND FITTINGS SHALL BE COMPATIBLE WITH ALL OTHER CPVC PIPE AND FITTINGS MANUFACTURED IN ACCORDANCE WITH ASTM F-442, F-438, F-439, F-1970 AND F-1971. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL INFORMATION NECESSARY FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT.

GRAPHICS ELEMENTS NOTE
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WATER SUPPLY INFORMATION

ACTUAL	DESIGN OR ESTIMATED AS REVIEWED BY A.U.D.	FIRE FLOW	TYPE OF TEST
80	80	150 GPM @ 150 PSI	UL TEST
68	68	150 GPM @ 150 PSI	UL TEST
1050	1050	150 GPM @ 150 PSI	UL TEST
40	40	150 GPM @ 150 PSI	UL TEST

DESIGN CRITERIA

SYMBOL	MAXIMUM	MINIMUM	COMMENTS						
SYMB	IST	2ND	3RD	4TH	5IN	SIZE	K	TEMP	MODEL

SPRINKLERS SPACING

SYMB	IST	2ND	3RD	4TH	5IN	SIZE	K	TEMP	MODEL
TOTAL PER FLOOR									
TOTAL THIS BUILDING									

DATE SUBMITTALS BY

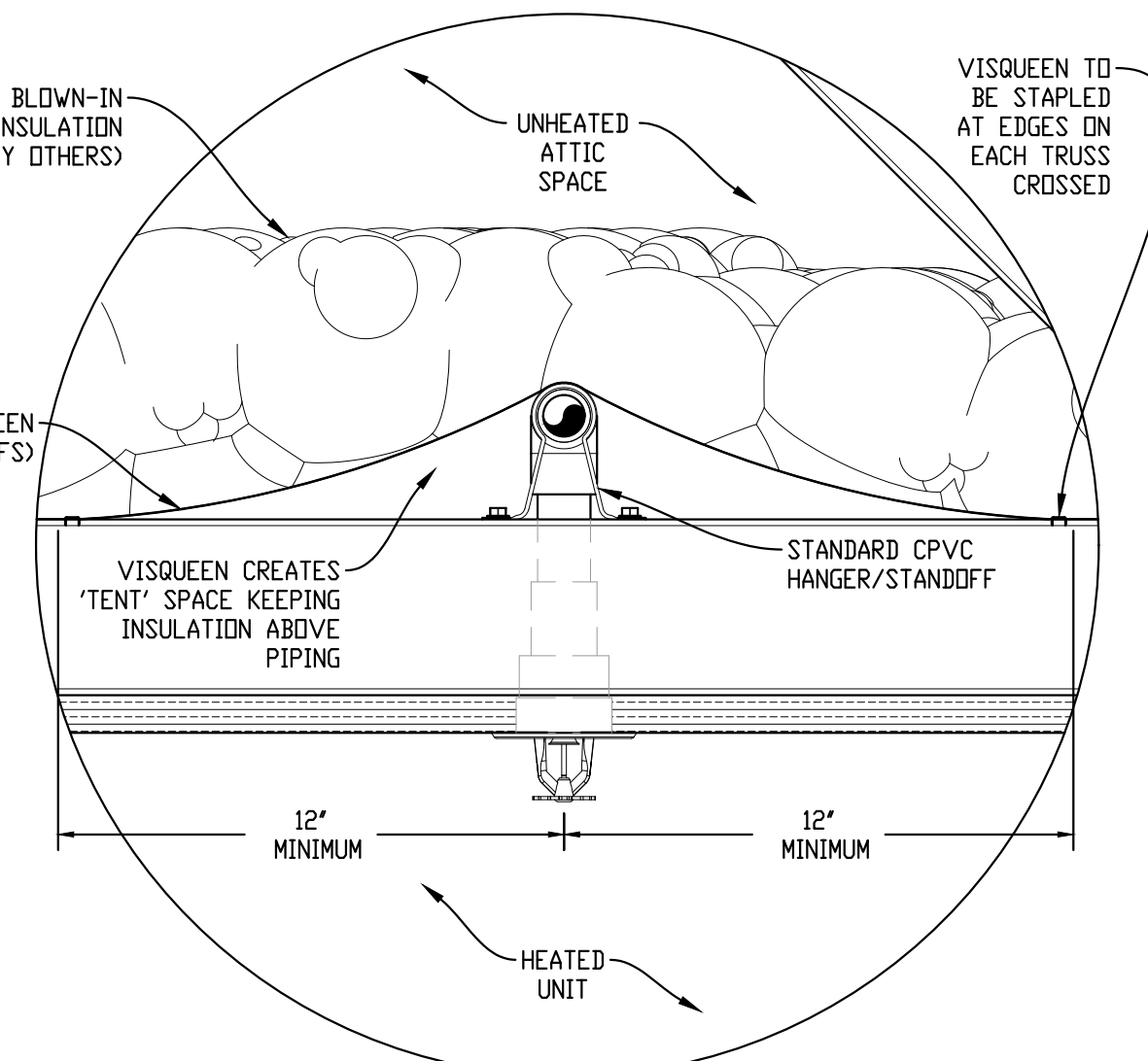
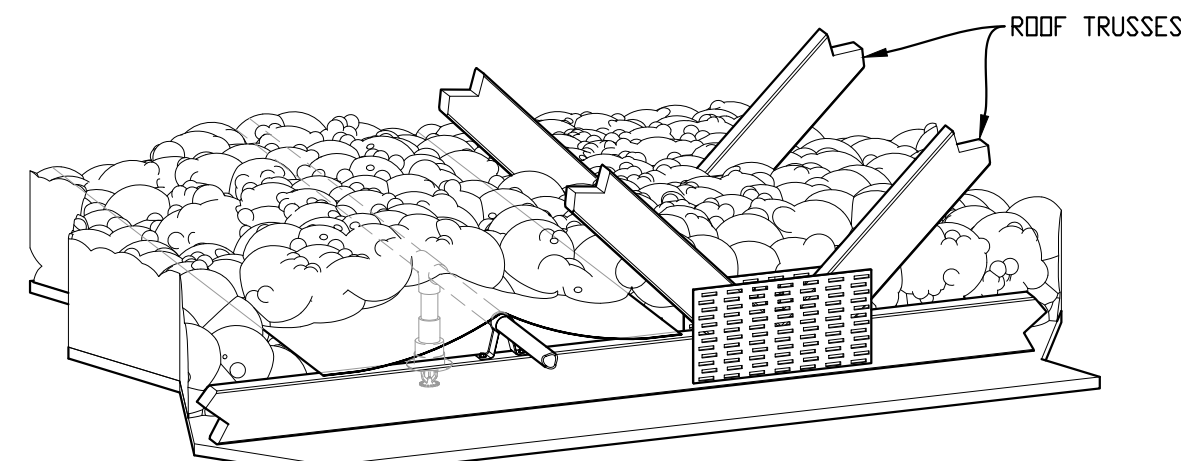
DATE	SUBMITTALS	BY
2-24-2021	QA Review	DH
3-4-2021	Permit	DH

NO. DATE REVISIONS BY

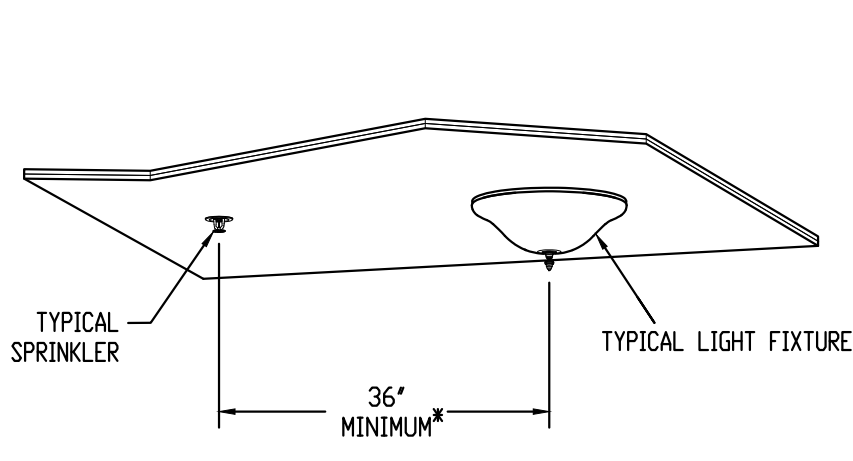
NO.	DATE	REVISIONS	BY
1	XX/XX/XX		

WAYNE
 Automatic Fire Sprinklers, Inc.
MAIN OFFICE - ORLANDO, FLORIDA
 222 CENTRAL COURT, ORLANDO, FLORIDA 32817
 PHONE: (407) 858-3030 FAX: (407) 858-8028

JUNIPER

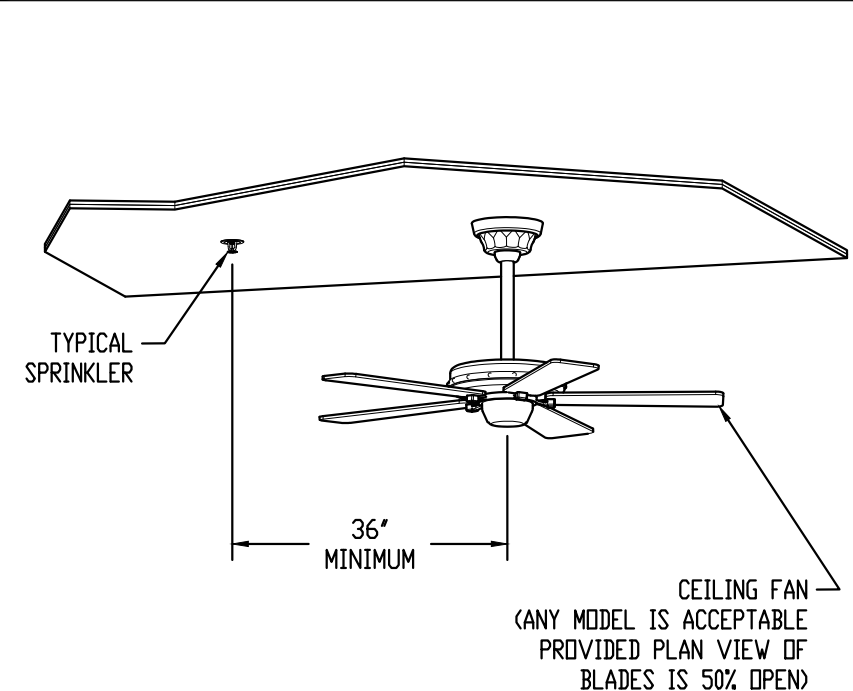


ATTIC PIPING WITH VISQUEEN AND BLOWN-IN INSULATION
SCALE: NONE
00861N

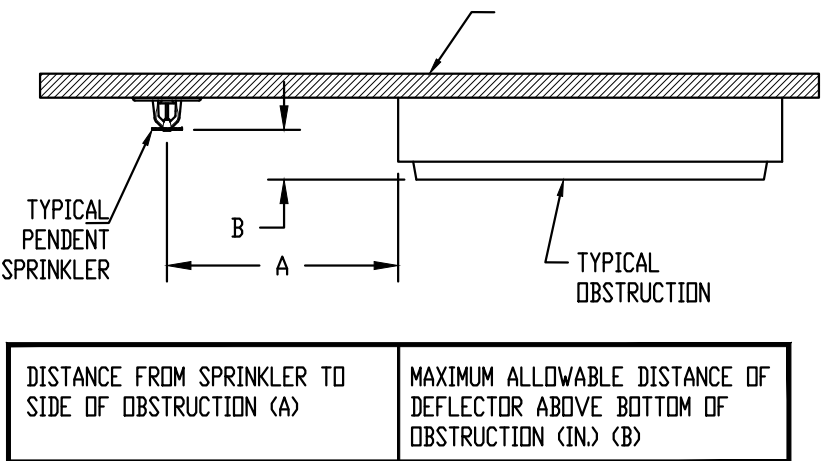


*IN ROOMS/COMPARTMENTS 400 CU. FT. OR LESS, SPRINKLERS MAY BE PLACED REGARDLESS OF LOCATION OF OBSTRUCTIONS.

NFPA 13R & 13D SPRINKLER CLEARANCE W/ LIGHT FIXTURE
SCALE: NONE
00504N

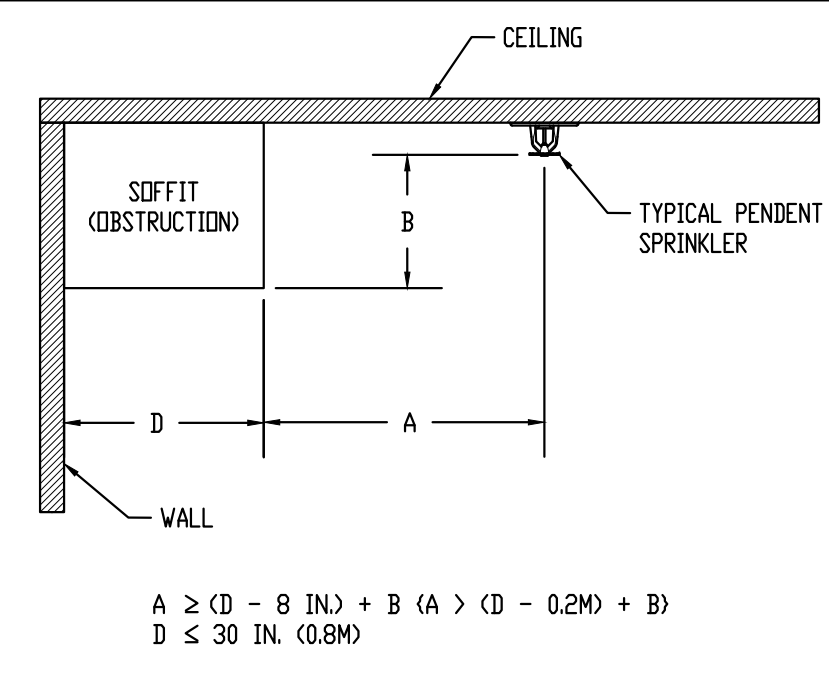


NFPA 13R & 13D SPRINKLER CLEARANCE W/ CEILING FAN
SCALE: NONE
00505N

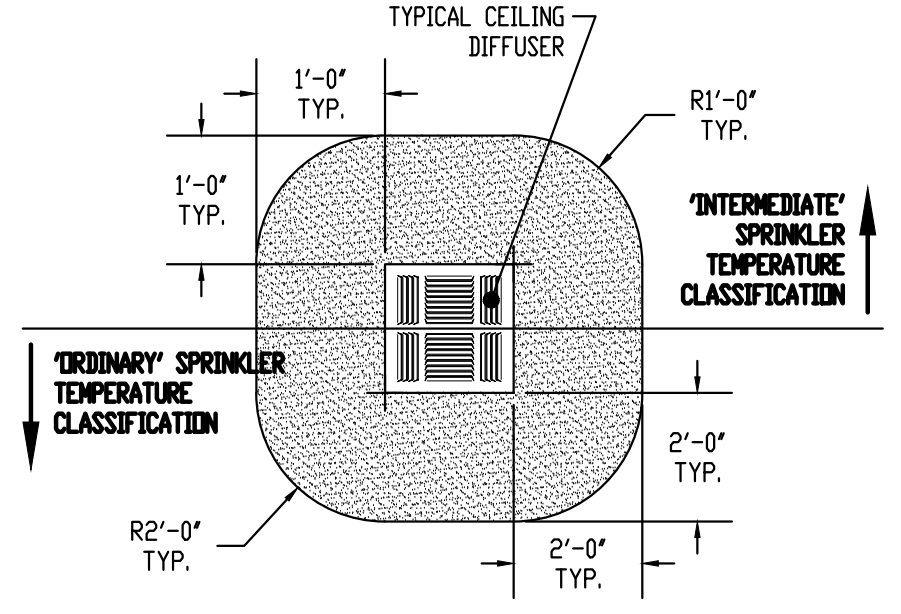


DISTANCE FROM SPRINKLER TO SIDE OF OBSTRUCTION (A)	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION (IN) (B)
LESS THAN 1 FT. 6 IN.	0
1 FT. 6 IN. TO LESS THAN 3 FT.	1
3 FT. TO LESS THAN 4 FT.	3
4 FT. TO LESS THAN 4 FT. 6 IN.	5
4 FT. 6 IN. TO LESS THAN 6 FT.	7
6 FT. TO LESS THAN 6 FT. 6 IN.	9
6 FT. 6 IN. TO LESS THAN 7 FT.	11
7 FT. AND GREATER	14

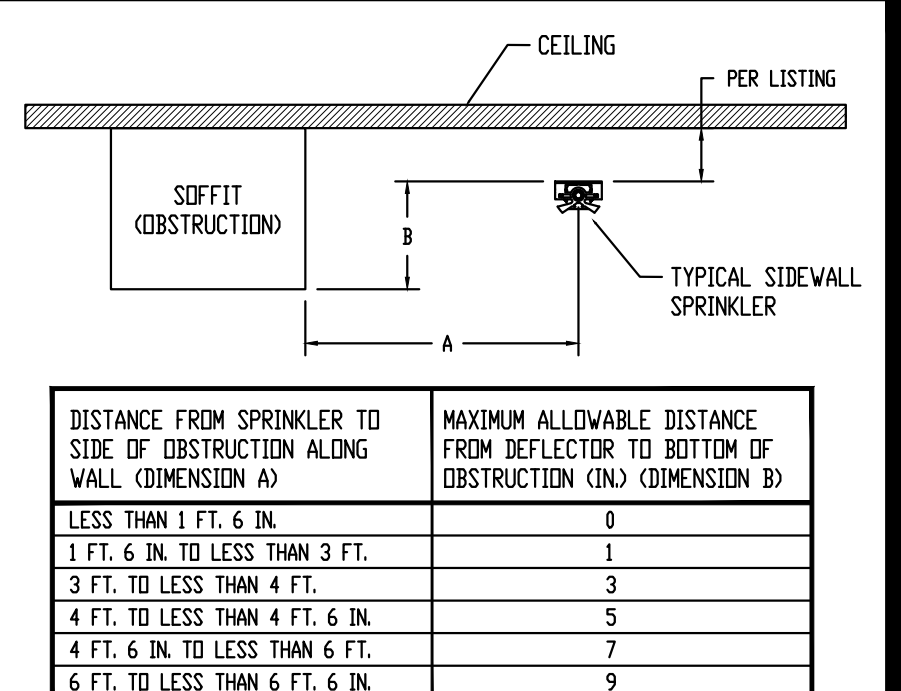
NFPA 13R & 13D RESIDENTIAL PENDANT SPRINKLER CLEARANCE W/ OBSTRUCTION
SCALE: NONE
00527N



NFPA 13R & 13D RESIDENTIAL PENDANT SPRINKLER CLEARANCE W/ SOFFIT
SCALE: NONE
00531N

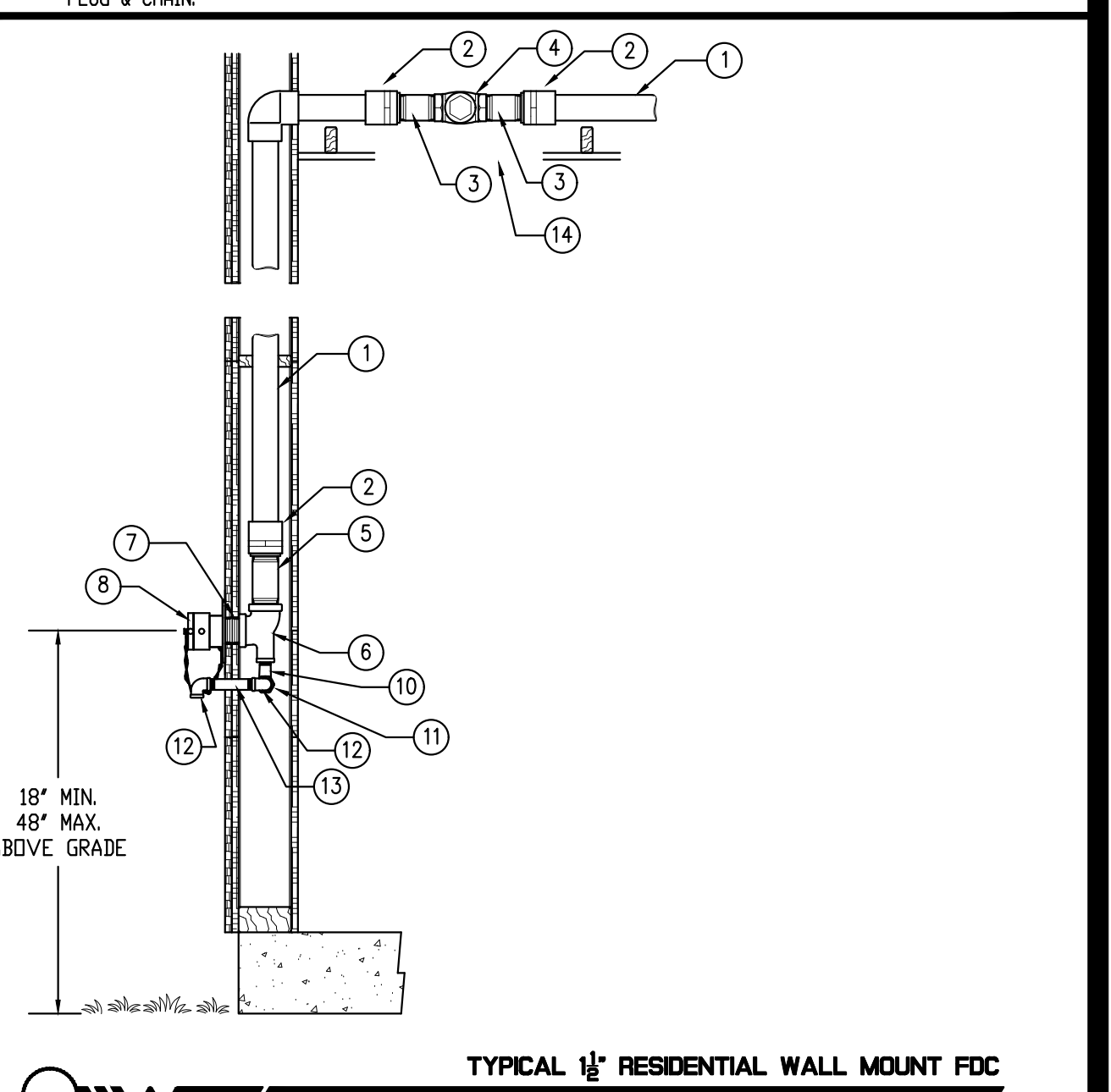


TYPICAL RESIDENTIAL CEILING MOUNTED HOT AIR DIFFUSER SPRINKLER MINIMUM CLEARANCES
SCALE: NONE
00782N



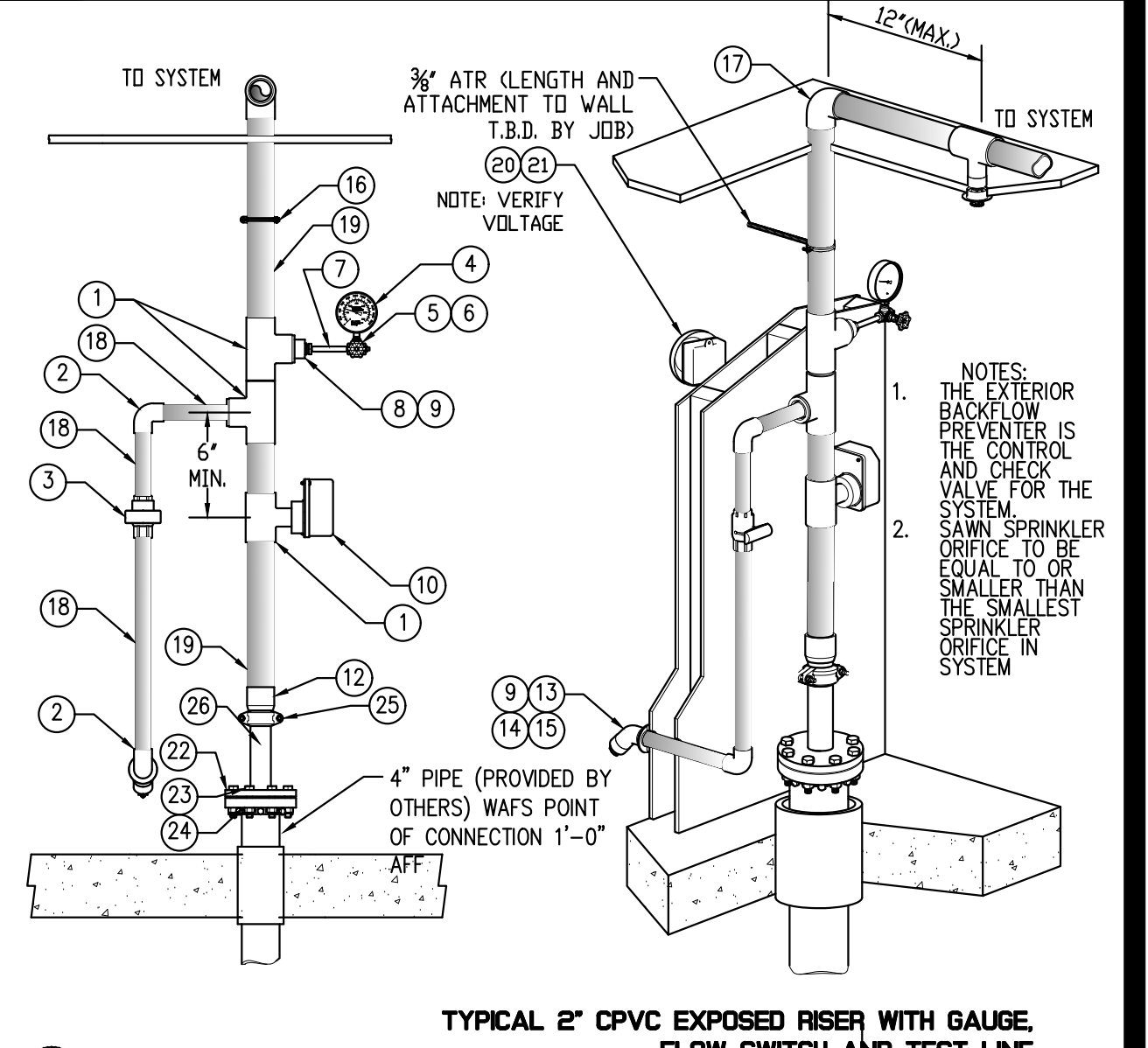
RESIDENTIAL SIDEWALL SOFFIT CLEARANCE SIDE
SCALE: NONE
02000N

- COMPONENT LIST**
- 1/2" CPVC PIPE
 - 1/2" CPVC FEMALE X SLIP ADPT.
 - 1/2" X 3/4" GALV. THRD. NIPPLE
 - 1/2" FPMI SWING CHECK VALVE
 - 1/2" X 4" GALV. THRD. NIPPLE
 - 1/2" X 1/2" X 1/2" GALV. TEE
 - 1/2" X 2" GALV. THRD. NIPPLE
 - 1/2" SINGLE INLET FDC W/ PLATE, PLUG & CHAIN.
 - NOT USED
 - 1/2" GALV. 90° STREET ELL
 - 1/2" BALL DRIP - UNITED #235
 - 1/2" GALV. 90° ELL
 - 1/2" X 3/4" GALV. THRD. NIPPLE
 - 12" X 12" FIRE RATED ACCESS PANEL

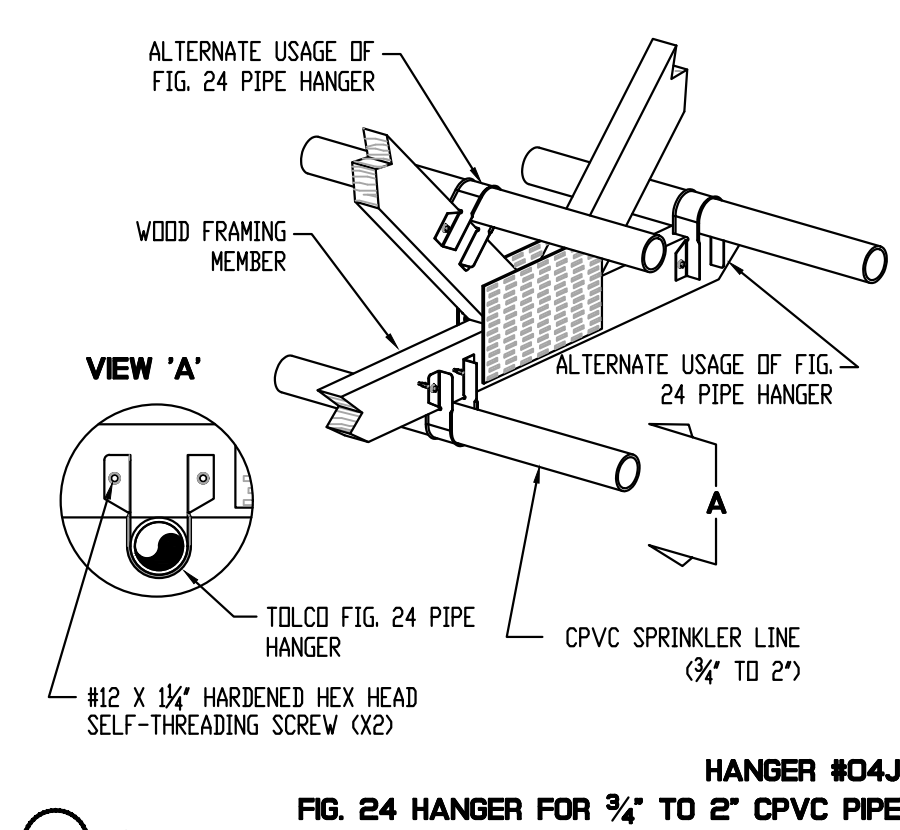


TYPICAL 1/2" RESIDENTIAL WALL MOUNT FDC
SCALE: NONE
00317L

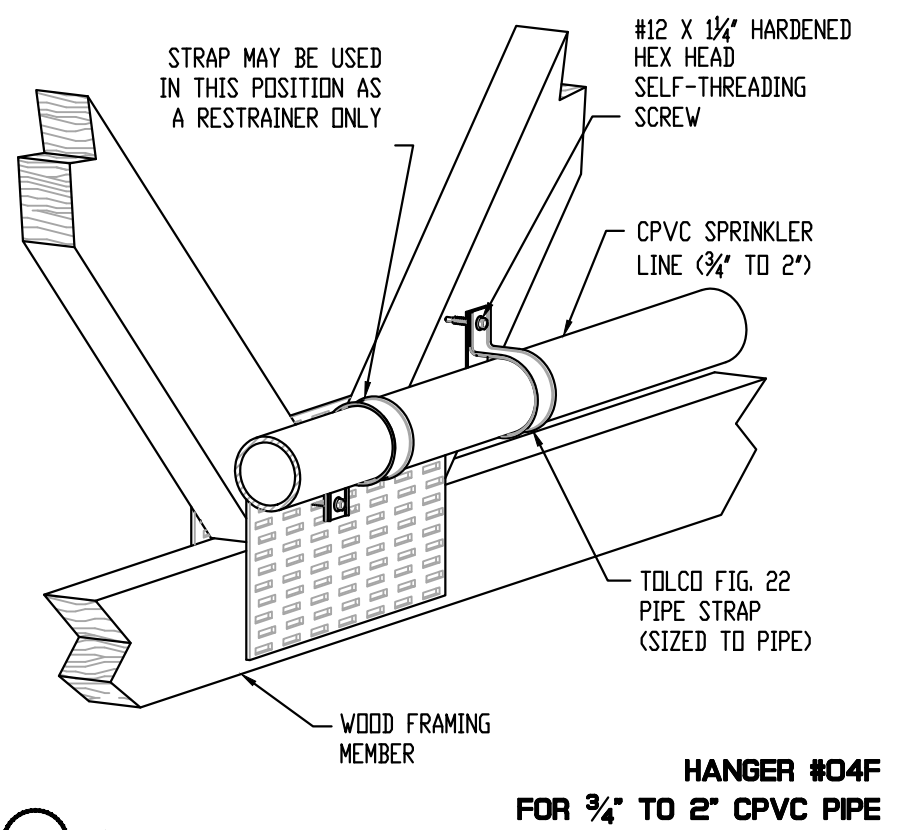
- COMPONENT LIST**
- 2" x 2" x 1/2" CPVC REDUCING TEE
 - 1" CPVC 90° ELL
 - 1" CPVC BALL VALVE
 - 3/4" PRESSURE GAUGE
 - 3/4" 3-WAY VALVE
 - 1/2" GALV. PLUG
 - 1/2" X 3/4" GALV. NIPPLE
 - 1/2" X 1/2" GALV. BUSHING
 - 1" CPVC PIPE
 - 2" CPVC PIPE
 - 6" ALARM BELL 120V
 - WEATHERPROOF ALARM BELL BOX
 - 4" x 9" SLIP-IN WELD FLANGE
 - 4" NUT, BOLT & GASKET KIT
 - 4" DIP UNI-FLANGE
 - 2" GROOVED COUPLING
 - 2" x 12" FLANGE TO GROOVED NIPPLE
 - 1" CPVC PIPE
 - 2" CPVC PIPE
 - 6" ALARM BELL 120V
 - WEATHERPROOF ALARM BELL BOX
 - 4" x 9" SLIP-IN WELD FLANGE
 - 4" NUT, BOLT & GASKET KIT
 - 4" DIP UNI-FLANGE
 - 2" GROOVED COUPLING
 - 2" x 12" FLANGE TO GROOVED NIPPLE



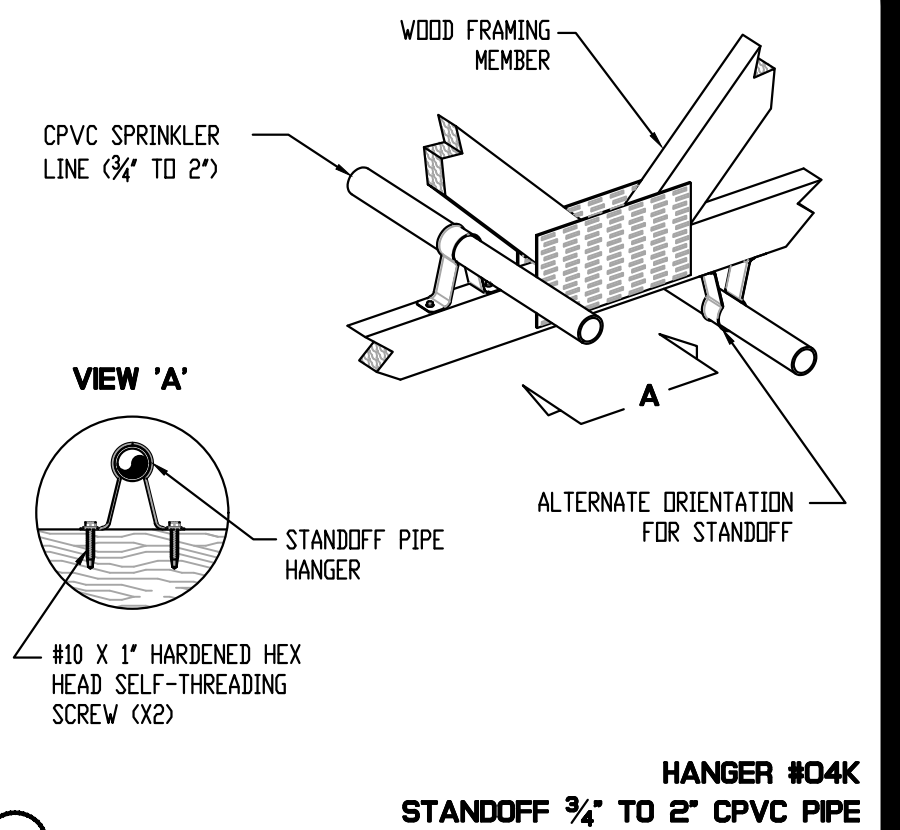
TYPICAL 2" CPVC EXPOSED RISER WITH GAUGE, FLOW SWITCH AND TEST LINE
SCALE: 3/4"=1"
R00311AL



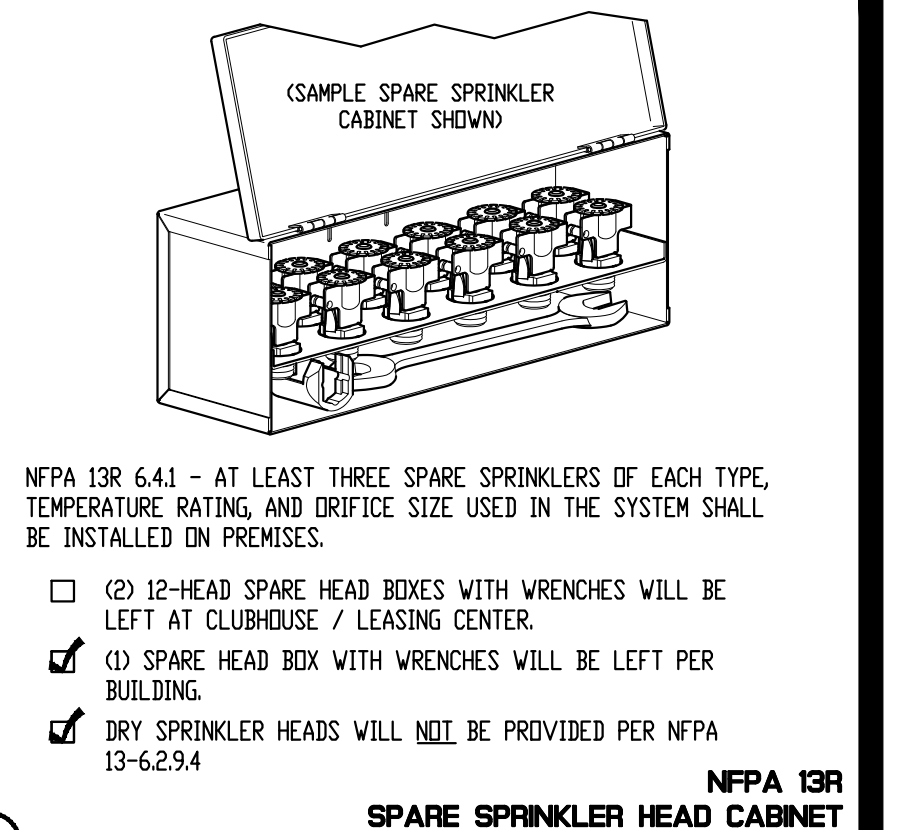
HANGER #04J FIG. 24 HANGER FOR 3/4" TO 2" CPVC PIPE
SCALE: NONE
00282N



HANGER #04F FOR 3/4" TO 2" CPVC PIPE
SCALE: NONE
00251N



HANGER #04K STANDOFF 3/4" TO 2" CPVC PIPE
SCALE: NONE
00283N



NFPA 13R SPARE SPRINKLER HEAD CABINET
SCALE: NONE
00477N

IMPORTANT OWNER INFORMATION
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CPVC COMPATIBILITY NOTICE
CPVC FIRE SPRINKLER SYSTEMS HAVE BEEN USED SUCCESSFULLY FOR MORE THAN 25 YEARS IN NEW CONSTRUCTION. CPVC AND CPVC FITTINGS ARE COMPATIBLE WITH CHLORAL HYDRAE IN NEW CONSTRUCTION MATERIALS. CPVC AND CPVC FITTINGS ARE COMPATIBLE WITH CHLORAL HYDRAE IN NEW CONSTRUCTION MATERIALS. CPVC AND CPVC FITTINGS ARE COMPATIBLE WITH CHLORAL HYDRAE IN NEW CONSTRUCTION MATERIALS.

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GRAPHICS ELEMENTS NOTE
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WATER SUPPLY INFORMATION

STATIC PRESSURE	RESIDUAL PRESSURE	FLOW IN GPM	PITOT READING	TEST PROVIDED BY	HYDRANT LOCATION
80	68	1060	40	Lillington Fire Department	Parker Lane and North Main Street - Hydrant #224

DESIGN CRITERIA

DESIGN AREA #	HAZARD CLASS	# OF SPRINKLERS IN DESIGN AREA	MINIMUM DENSITY	DESIGN AREA SF.	PSI READ @ BASIN	PSI READ @ TEST	ELEVATION @ HIGHEST SPRINKLER	NOTE: NONE/OUTSIDE/ESTIMATED

SPRINKLERS SPACING

SYMBOL	MAXIMUM	MINIMUM	COMMENTS

QUANTITY - SPRINKLERS

SYMB	LIST	2ND	3RD	4TH	SIN	SIZE	K	TEMP	MODEL

TOTAL PER FLOOR

TOTAL THIS BUILDING

DATE **SUBMITTALS** **BY**

2-24-2021 QA Review DH

3-4-2021 Permit DH

NO. **DATE** **REVISIONS** **BY**

1 3/3/2021 -- --

WAYNE
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JACKSONVILLE, FL TAMPA, FL DEERFIELD BEACH, FL
8888 INTERNATIONAL BLVD. 3808 LORRY PALM DRIVE 808 & PHENIX BLVD
JACKSONVILLE, FL 32216-2746 TAMPA, FL 33607-0227 DEERFIELD BEACH, FL 33442
PHONE: (904) 328-3274 PHONE: (813) 830-0253 PHONE: (561) 97-4624
FAX: (904) 328-0764 FAX: (813) 830-0381 FAX: (561) 97-4624

FT. MYERS, FL CONCORD, NC STATE LICENSED
4025 LINDSEY AVE. 4025 LINDSEY AVE. NC SPRINKLER INST.
FT. MYERS, FL 33907-4804 CONCORD, NC 28027-6877 NC ALARM 8809 BY LV
PHONE: (888) 423-3025 PHONE: (704) 788-8028 IC ALARM 3005
FAX: (888) 423-3025 FAX: (704) 788-8028

JUNIPER VILLAGE
PARKER LANE
LILLINGTON, NORTH CAROLINA

Wynnefield Properties
5614 Riverdale Road
Jamestown, NC 27282

SHEET TITLE: Notes and Details 2
DRAWN BY: Donald Hawkins
TOTAL A/S: 938
DATE: 3-5-2021
ANL: Town of Lillington
CONTRACT #: 102001
CENTER OF TILE JOB: YES NO **CENTER ON FIXTURES JOB:** YES NO

SHEET # **CONSTRUCTION TYPE:** V-B
OCCUPANCY: R-2

FPD3