

City of Puyallup
Fire
REVIEWED FOR COMPLIANCE
DDrake
06/27/2024
12:58:07 PM



THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

FIRE SPRINKLER PLANS FOR

HOMEWOOD SUITES

3500 SOUTH MERIDIAN PUYALLUP, WA. 98373

GENERAL CONTRACTOR

THARALDSON HOSPITALITY
4520 36TH AVENUE SOUTH
FARGO, ND. 58104

DISCOUNT FIRE PROTECTION, LLC.

4 RED BLUFF COURT
MANSFIELD, TX. 76063
Phone: (817) 821-1877

I HAVE REVIEWED THESE PLANS AND CERTIFY THAT THEY COMPLY WITH THE ADOPTED NFPA STANDARDS.
DISCOUNT FIRE PROTECTION, LLC.
4 RED CLIFF COURT
MANSFIELD, TX. 76063
817-821-1877
SCR-G-2379798
RME-SIGNATURE: *Timothy McBride*
PRINTED RME NAME: Timothy McBride
RME-G-0825 DATE:
 AS-BUILT SUBMITTAL OTHER

Expires DEC 31, 24 WASHINGTON STATE
CERTIFICATE OF COMPETENCY
FIRE SPRINKLER SYSTEMS
Timothy P. McBride
0168-0424-C Level 3
Discount Fire Protection, LLC
DISCOFP763B5
Tim McBride 04/11/2024
Signature Date

2 1 0 4 8
SCALE 1/8"=1'-0"

NOTICE
ALL DOCUMENTS, INCLUDING ORIGINAL DRAWINGS, SPECIFICATIONS, FIELD NOTES, ESTIMATES AND DATA, INCLUDING COMPUTER PROGRAMS PURSUANT TO THIS PROJECT ARE AND WILL REMAIN THE PROPERTY OF DISCOUNT FIRE PROTECTION, LLC. THEY ARE REPRESENTED TO BE SUITABLE FOR RE-USE BY THE CLIENT, OR OTHERS, ON EXTENSION OF THIS PROJECT OR FOR ANY OTHER PROJECT. ANY REUSE, OR ADAPTATION OF THE INFORMATION CONTAINED HEREIN, WITHOUT SPECIFIC WRITTEN PERMISSION FROM DISCOUNT FIRE PROTECTION, LLC, IS STRICTLY PROHIBITED. THE CLIENT SHALL BE RESPONSIBLE FOR ANY AND ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES, RESULTING FROM ANY SUCH PERMISSIONS.

IMPORTANT OWNER INFORMATION
ACCEPTANCE OF THE LATEST EDITION OF NFPA 99B AS THE APPLICABLE STD. FOR THE INSPECTION, TESTING AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS, IF THE BUILDING OWNER HAS NOT RECEIVED A COPY OF THIS Pamphlet AND IS NOT FAMILIAR WITH THE OPERATION AND MAINTENANCE OF THIS SYSTEM, PLEASE CONTACT THE NEAREST OFFICE OF DISCOUNT FIRE PROTECTION, LLC.

DO NOT COVER WITHOUT INSPECTION. ANY AREAS COVERED WITHOUT APPROVAL WILL RESULT IN FINES AND COMPLETE DEMO.

NO.	Date	Revisions	By
1	4/12/24	Added Stamps	K.N.
2	6/4/24	Added roof dry system	K.N.

DISCOUNT FIRE PROTECTION, LLC.
4 Red Bluff Court
Mansfield, Texas 76063
Phone: (817) 821-1877

Licensed in the States of:
TX Lic: SCR-G-2379798 CO Lic: 21-S-08105
CA Lic: 1650892 OK Lic: A3419
MD Lic: MSC-593 (Class I, III)

Approval By: *Timothy McBride*
Date: _____
Timothy McBride RME # G-0825

PROJECT: HOMEWOOD SUITES
3500 SOUTH MERIDIAN
PUYALLUP, WA. 98373

CONTRACT WITH: THARALDSON HOSPITALITY
4520 36TH AVENUE SOUTH
FARGO, ND. 58104

SYSTEM NO. PROJECT COVER SHEET DATE: 2-15-2024
DRAWN BY: K. Narong SCALE:
ENGINEER: ENGINEERING MANAGER: Timothy McBride A/E: City of Puyallup
LISTED BY: SHEET NO. SHEET NO.
BRANCH MANAGER: Timothy McBride
FS-1

SHT. 1 OF 10

HOMWOOD SUITES

Expires Dec 31, 24
WASHINGTON STATE
CERTIFICATE OF COMPETENCY
FIRE SPRINKLER SYSTEMS
 Timothy P. McBride
 0168-0424-C Level 3
 Discount Fire Protection, LLC
 DISCOFP763B5
Tim McBride Signature
 04/11/2024 Date

I HAVE REVIEWED THESE PLANS AND CERTIFY THAT THEY COMPLY WITH THE ADOPTED NFPA STANDARDS.

DISCOUNT FIRE PROTECTION, LLC.
 4 RED CLUFF COURT
 MANSFIELD, TX. 76063
 817-821-1877
 SCR-G-2379798

RME-SIGNATURE: Timothy McBride
 PRINTED RME NAME: RME-G-0825 DATE: Timothy McBride
 AS-BUILT SUBMITTAL OTHER

- General Notes**
1. INSTALLATION AND MATERIALS SHALL CONFORM TO N.F.P.A. 24 (2016), STATE AND LOCAL BUILDING CODES.
 2. ALL UNDERGROUND PIPING TO BE FLUSHED PRIOR TO CONNECTION WITH OVERHEAD SYSTEM PIPING, BY UTILITY CONTRACTOR.
 3. ALL UNDERGROUND PIPE SIZED, MATERIALS AND LOCATIONS TO BE FIELD VERIFIED PRIOR TO INSTALLATION OF FIRE PROTECTION SYSTEMS.
 4. ALL UNDERGROUND IS TO BE SUBJECTED TO A HYDROSTATIC TESTING OF 200PSI FOR 2 HOURS OR 50 PSI ABOVE STATIC PRESSURE IN EXCESS OF 150 PSI.
 5. THE MINIMUM BURY DEPTH FOR ALL UNDERGROUND PIPE IS TO BE PER N.F.P.A. 24 (2016) AND LOCAL STANDARDS.

	1st Floor	2nd Floor	3rd Floor	4th Floor	5th Floor	Attic	TOTAL
Total Residential Units	10	23	25	25	25	-	108
Total Area Protected by System Riser per Floor							
Wet System (sq.ft.)	24,700	19,100	19,900	19,900	19,900	1,990	

Material Information Notes

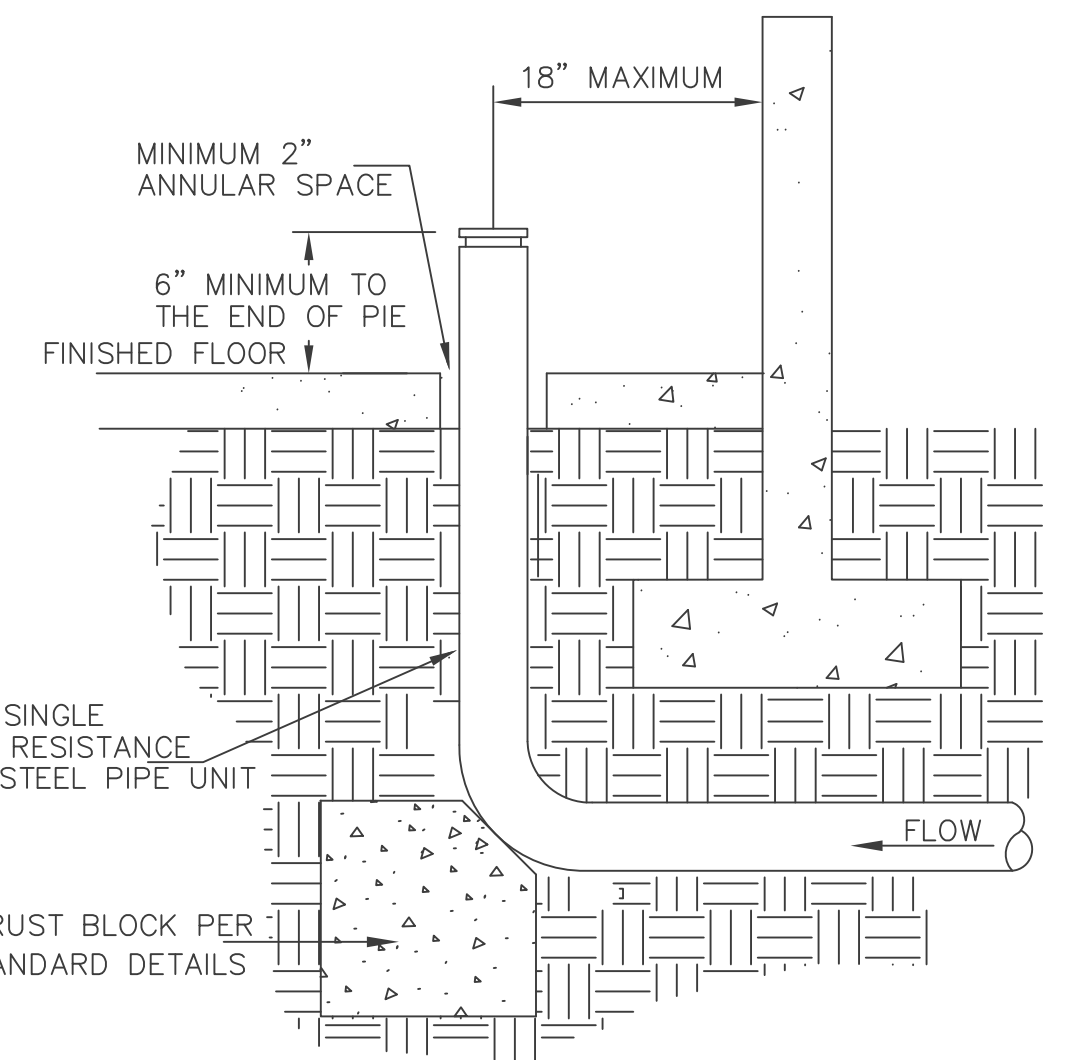
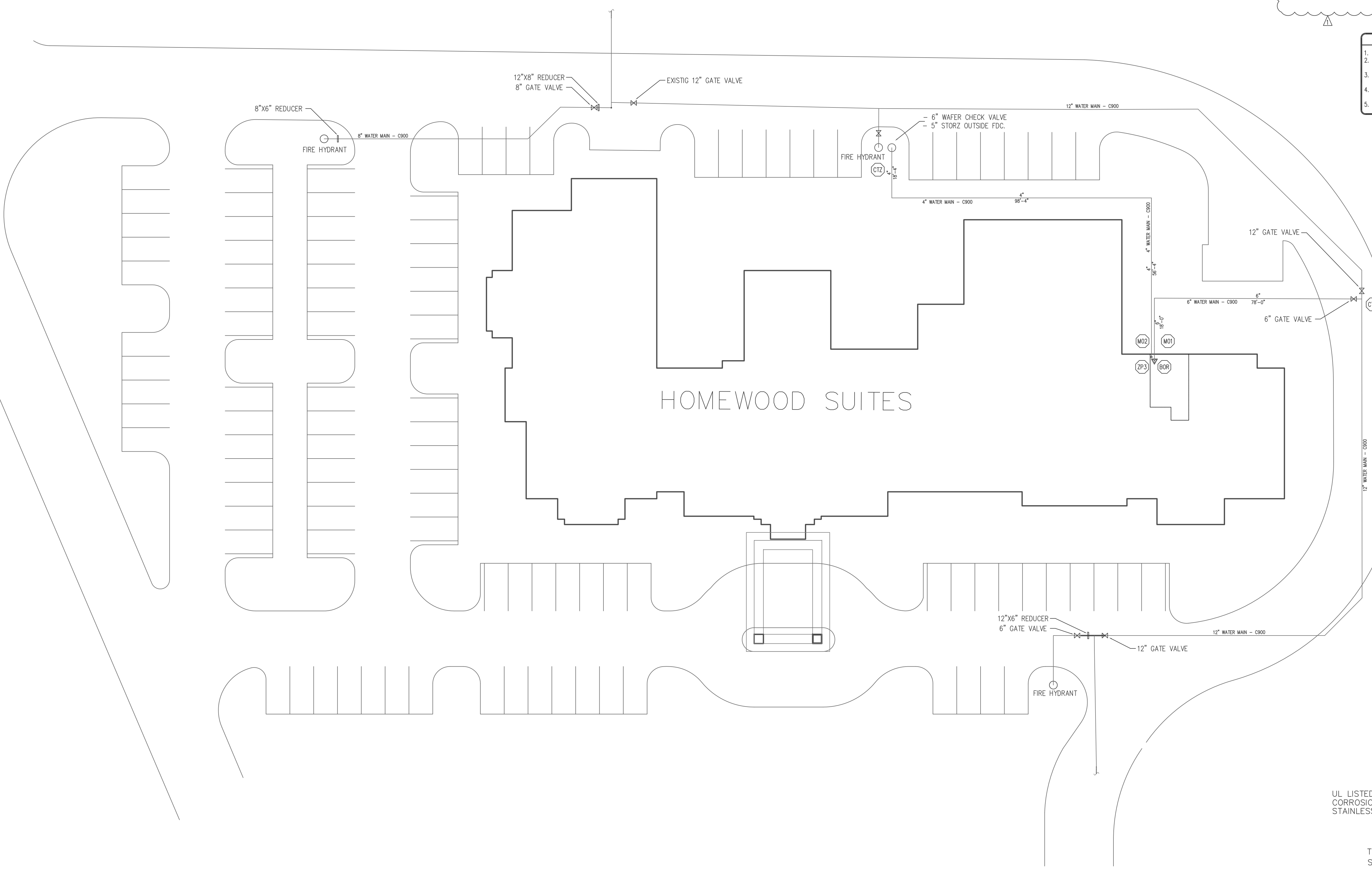
Underground Pipe:
 6" C-900 installed by others.

Building Stub-up:
 6" Ductile Iron installed by others.

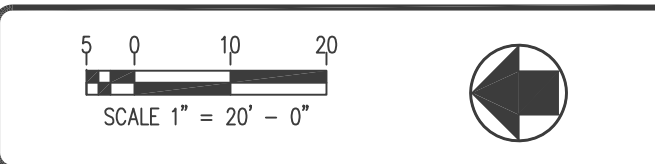
Fire Department Connection Information:
 5" STORZ outside FDC installed by others.

NOTE: DFP'S CONTRACT START AT 1'-0" AFF.

NOTE: ALL UNDERGROUND SHOWN IS FOR REFERENCE ONLY, INSTALLED BY OTHERS



UNDER FOUNDATION RISER DETAIL NTS.



NOTICE

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IMPORTANT OWNER INFORMATION

ACCEPTANCE OF THE LATEST EDITION OF NFPA #25 AS THE APPLICABLE STD. FOR THE INSPECTION, TESTING AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS. IF THE BUILDING OWNER HAS NOT RECEIVED A COPY OF THIS PAMPHLET AND/OR IS NOT FAMILIAR WITH THE OPERATION AND MAINTENANCE OF THIS SYSTEM PLEASE CONTACT THE NEAREST OFFICE OF DISCOUNT FIRE PROTECTION, LLC.

NO.	Date	Revisions	By
1	4/12/24	Added Stamps	K.N.
2	6/4/24	Added roof dry system	K.N.

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Licensed in the States of:
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 CA Lic: 1050892 OK Lic: A3419
 MD Lic: MSC-593 (Class I, III)

Approved By: *Timothy McBride*
 Timothy McBride RME # G-0825
 Date:

PROJECT: **HOMWOOD SUITES**
 3500 SOUTH MERIDIAN
 PUYALLUP, WA. 98373

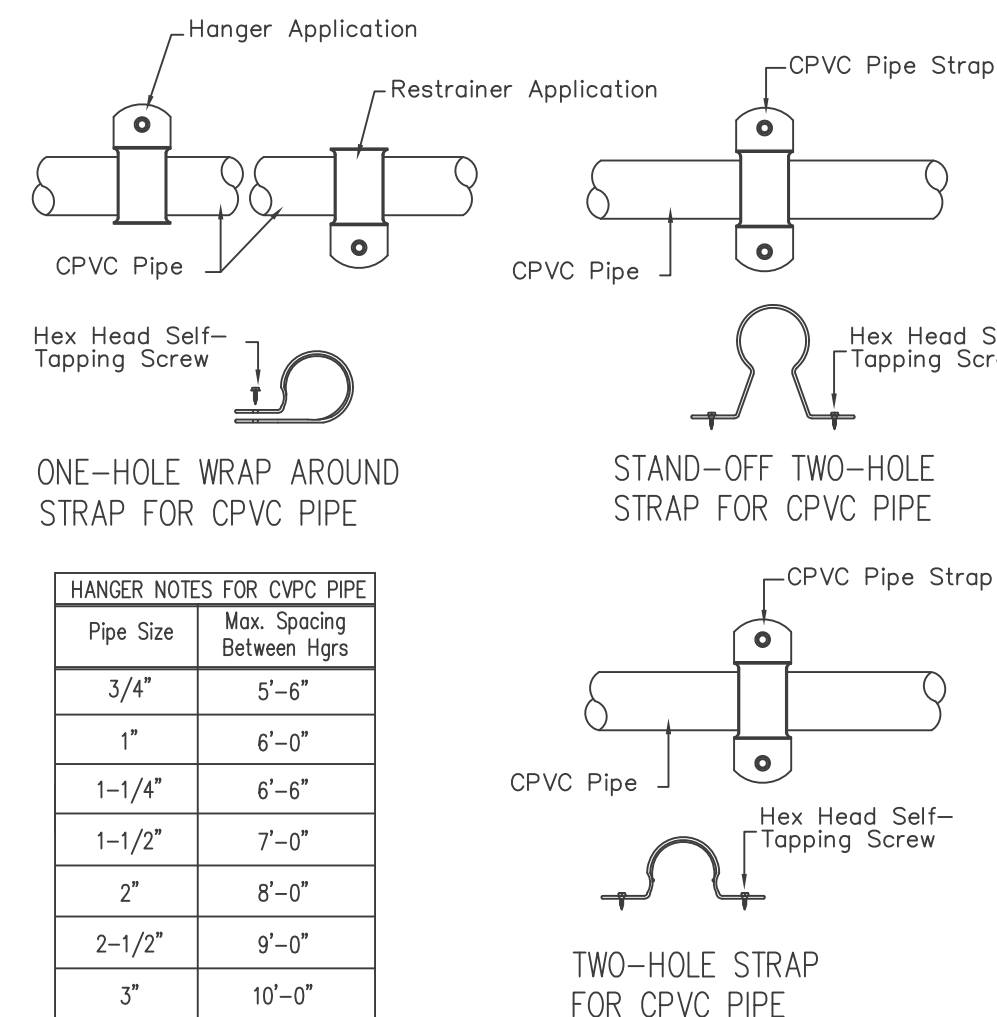
CONTRACT WITH: **THARALDSON HOSPITALITY**
 4520 36TH AVENUE SOUTH
 FARGO, ND. 58104

SYSTEM NO: **SITE PLAN** DATE: 2-15-2024
 DRAWN BY: **K. Narong** SCALE: 1" = 20'-0"
 ENGINEER: **Timothy McBride** City of Puyallup
 CHECKED BY: **Timothy McBride** SHEET NO.
 LISTED BY: **Timothy McBride** SHEET NO.
FS-2

HOMewood SUITES

General Plan Notes

1. Installation and materials shall conform to N.F.P.A. 13 (2016), State, and Local Codes.
2. Sprinkler spacing, locations, and types shall conform to N.F.P.A. 13 (2016), State, and Local codes and installed in accordance with the architectural reflected ceiling plans. Coordinate with other trades prior to installation to avoid conflict on site.
3. Fire sprinkler system is a hydraulically calculated wet system. Piping shall be hydrostatically tested for 2 hours at 200 P.S.I.
4. Hanger spacing, locations, and types shall conform to N.F.P.A.-13 (2016), State, and Local Codes.
5. Alarms shall conform to N.F.P.A. 13 (2016), State, and Local Codes. (Installed by others.)
6. CPVC pipe size 3/4" to 3" and CPVC fittings in building except as otherwise noted, per N.F.P.A. 13.
7. Steel piping sizes 1" to 1-1/2" to be threaded with cast iron fittings or pipe size 2" and larger to be roll grooved with Victaulic fittings. Black steel pipe used unless specified otherwise.
8. All pipe elevations are to be as follows or as noted on plans.
1st floor main elevation: 9'-4" AFF., line elevation: 9'-10" AFF.
2nd, 3rd, 4th floor main elevation: 8'-6" AFF., line elevation: 8'-10" AFF.
9. All wiring to be completed by others.
10. Painting to be completed by others, as required by contractor.
11. Owner to maintain insulation after occupancy of building.
12. All hydraulic data to be completed and permanently fixed to the riser.

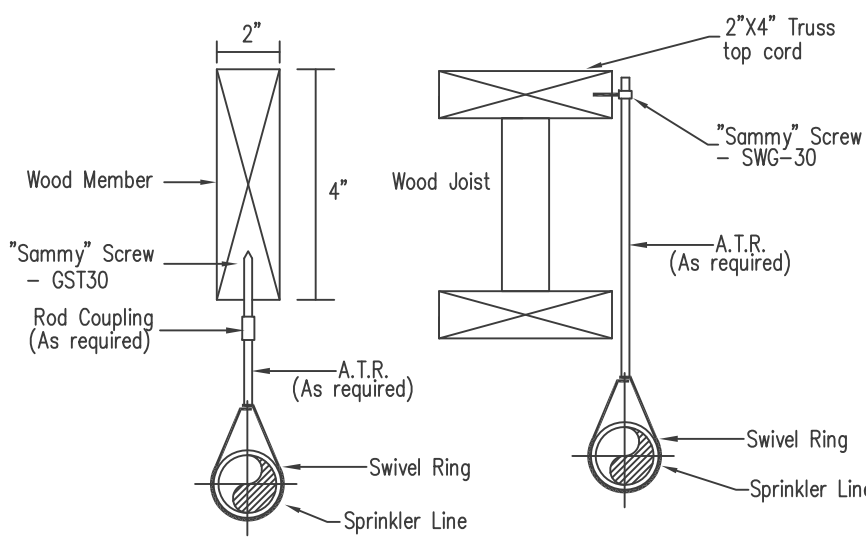


PIPE SIZE	MAX. SPACING BETWEEN HANGERS
3/4"	5'-6"
1"	6'-0"
1-1/4"	6'-6"
1-1/2"	7'-0"
2"	8'-0"
2-1/2"	9'-0"
3"	10'-0"

CPVC PIPE SIZE	HEX HEAD SELF TAPPING SCREW SIZE
3/4" - 1-1/2"	1-1/4" x # 10
2"	2" x # 10

CPVC HANGER DETAILS
N.T.S.

NOTE: INSTALLED SAMMY SCREW IN COMPLIANCE WITH NFPA 13 (2016) TABLE 9.1.5.3.1, TABLE 9.1.5.7.2



PIPE SIZE	ROD SIZE	SAMMY SCREW SIZE	MAXIMUM DISTANCE BETWEEN HANGERS
1"	3/8"	3/8"	12'
1-1/4"	3/8"	3/8"	12'
1-1/2"	3/8"	3/8"	15'
2"	3/8"	3/8"	15'
2-1/2"	3/8"	3/8"	15'
3"	3/8"	3/8"	15'
4"	3/8"	3/8"	15'
6"	1/2"	1/2"	15'

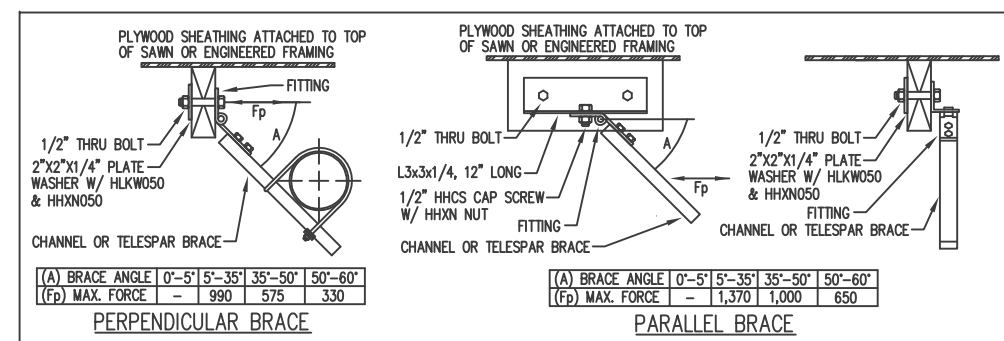
ALL ARMOVERS 2'-0" OR GREATER TO BE SUPPORTED BY HANGERS.

STEEL HANGER DETAILS
N.T.S.

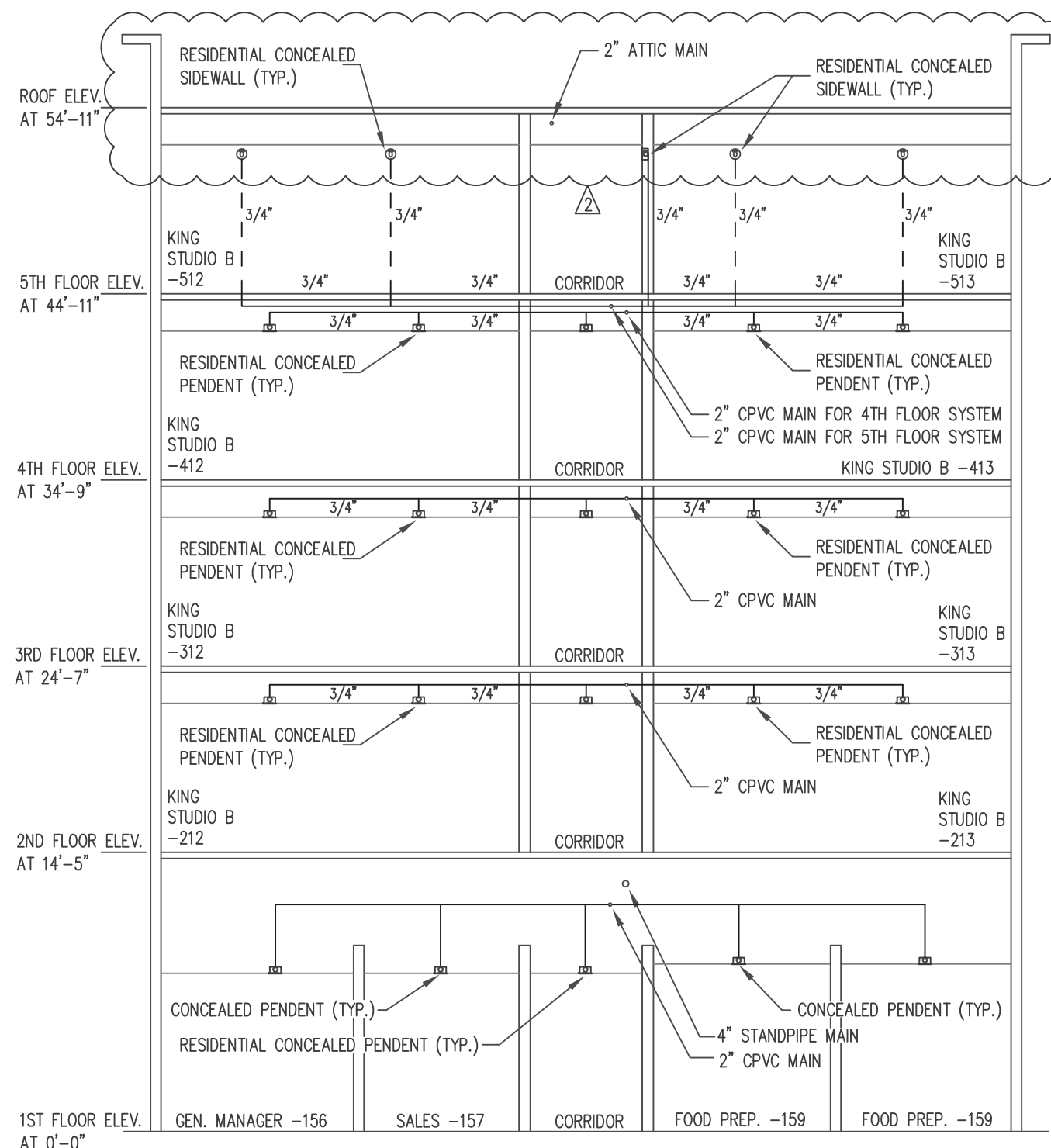
NOTE: TO BE INSTALLED THE DISTANCE FOR SWAY BRACING AS FOLLOWS:
6" STANDPIPE - LONGITUDINAL AND LATERAL BRACING EVERY 15' APART
4" STANDPIPE - LONGITUDINAL AND LATERAL BRACING EVERY 25' APART
2-1/2" DRY MAIN - LATERAL BRACING EVERY 40' APART
2-1/2" DRY MAIN - LONGITUDINAL BRACING EVERY 55' APART
2" DRY MAIN - LATERAL BRACING EVERY 40' APART
2" DRY MAIN - LONGITUDINAL BRACING EVERY 80' APART
2" CPVC - LONGITUDINAL BRACING EVERY 75' APART

NOTE: - FASTENER TO BE 1/2" X 2-1/2" THROUGH BOLTS IN WOOD.
- THESE FASTENERS ARE TO BE USED ON ALL SEISMIC BRACING

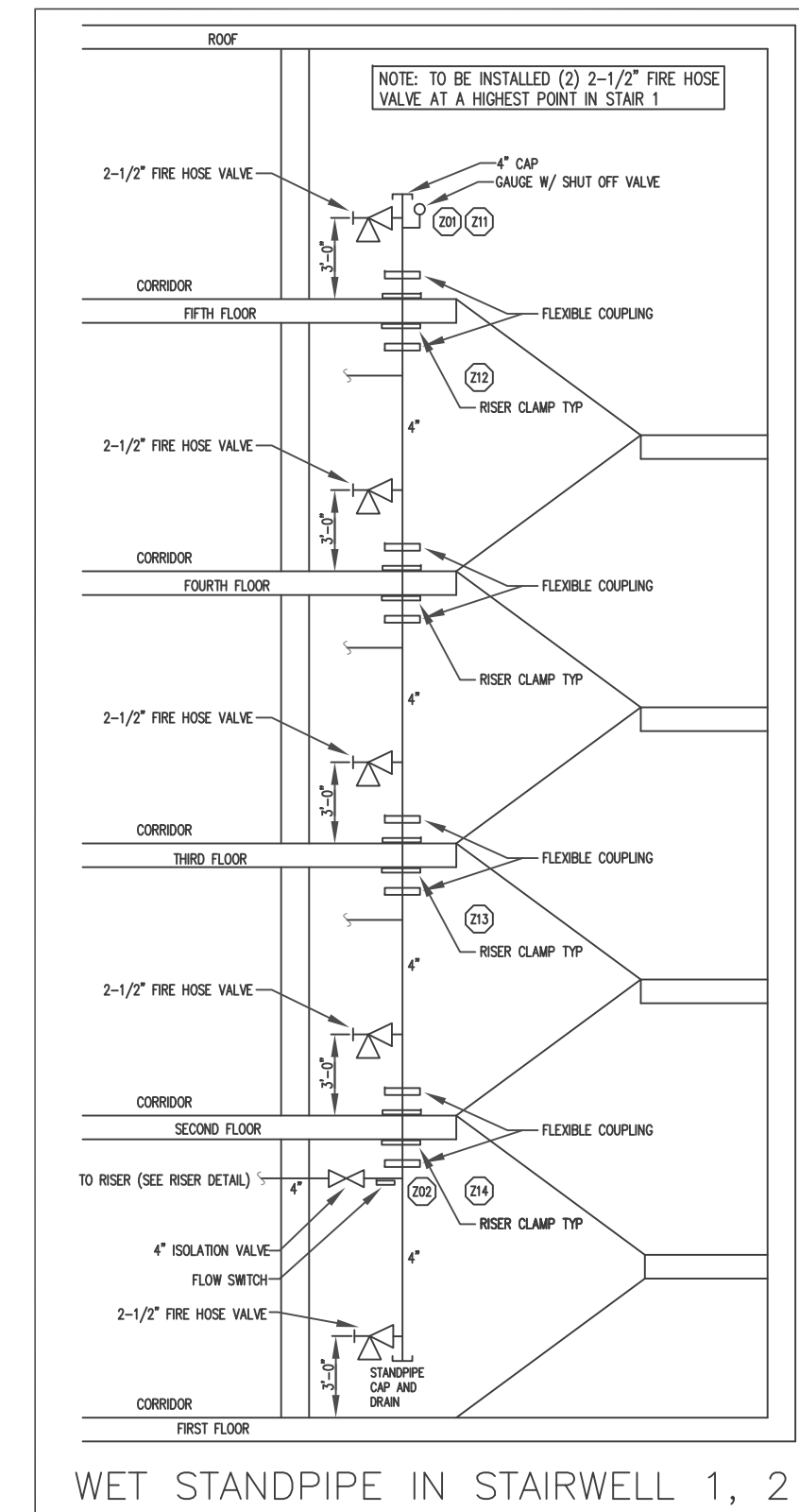
NOTE: SEISMIC BRACES MUST BE ATTACHED TO PRIMARY STRUCTURAL MEMBERS.



SEISMIC SWAY BRACING DETAIL
NOTE: PER NFPA 13 (2016) 9.3.5.5.8 LATERAL BRACES SHALL BE ALLOWED TO ACT AS LONGITUDINAL BRACES IF THEY ARE WITHIN 24 IN. OF THE CENTERLINE OF THE PIPING BRACED LONGITUDINALLY AND THE LATERAL BRACE IS ON A PIPE OF EQUAL OR GREATER SIZE THAN THE PIPE BEING BRACED LONGITUDINALLY.

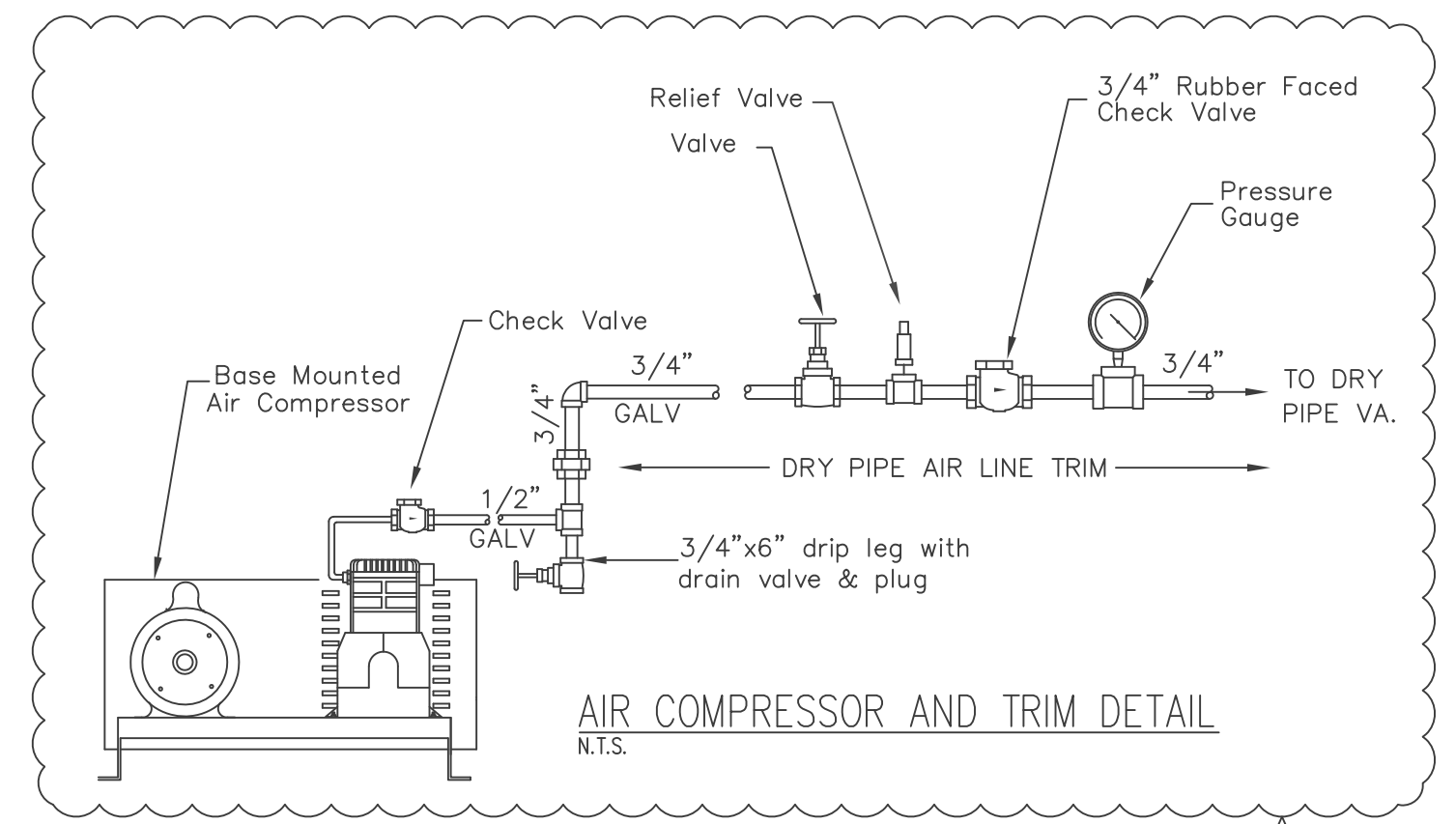


SECTION A-A
N.T.S.

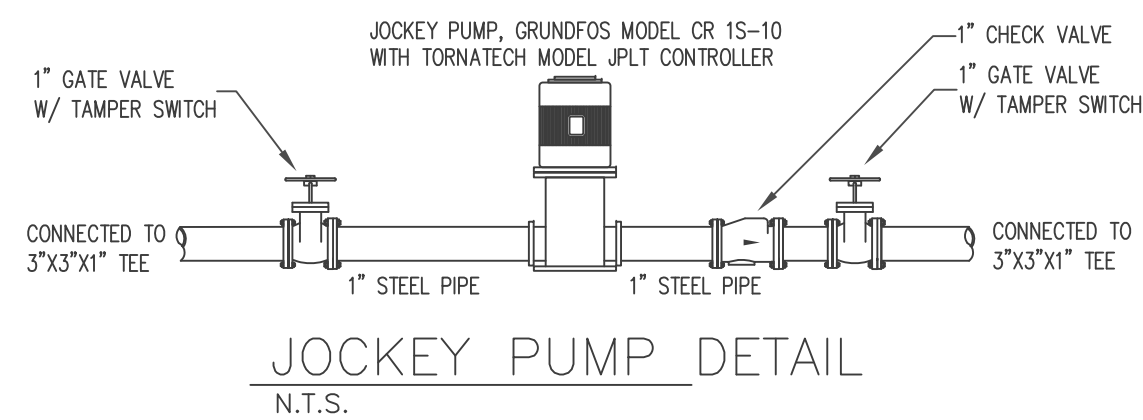


CALCULATION DESIGN INFO	
AREA:	STANDPIPE SYSTEM
OCCUPANCY:	HOTEL
HAZARD:	LIGHT
AREA OF OPERATION:	STANDPIPE
SYSTEM DEMAND	
PSI:	166.72 PSI
GPM:	750 GPM
PSI AVAILABLE:	150.0 PSI
GPM AVAILABLE:	1500 GPM
SAFETY FACTOR:	1.34 PSI

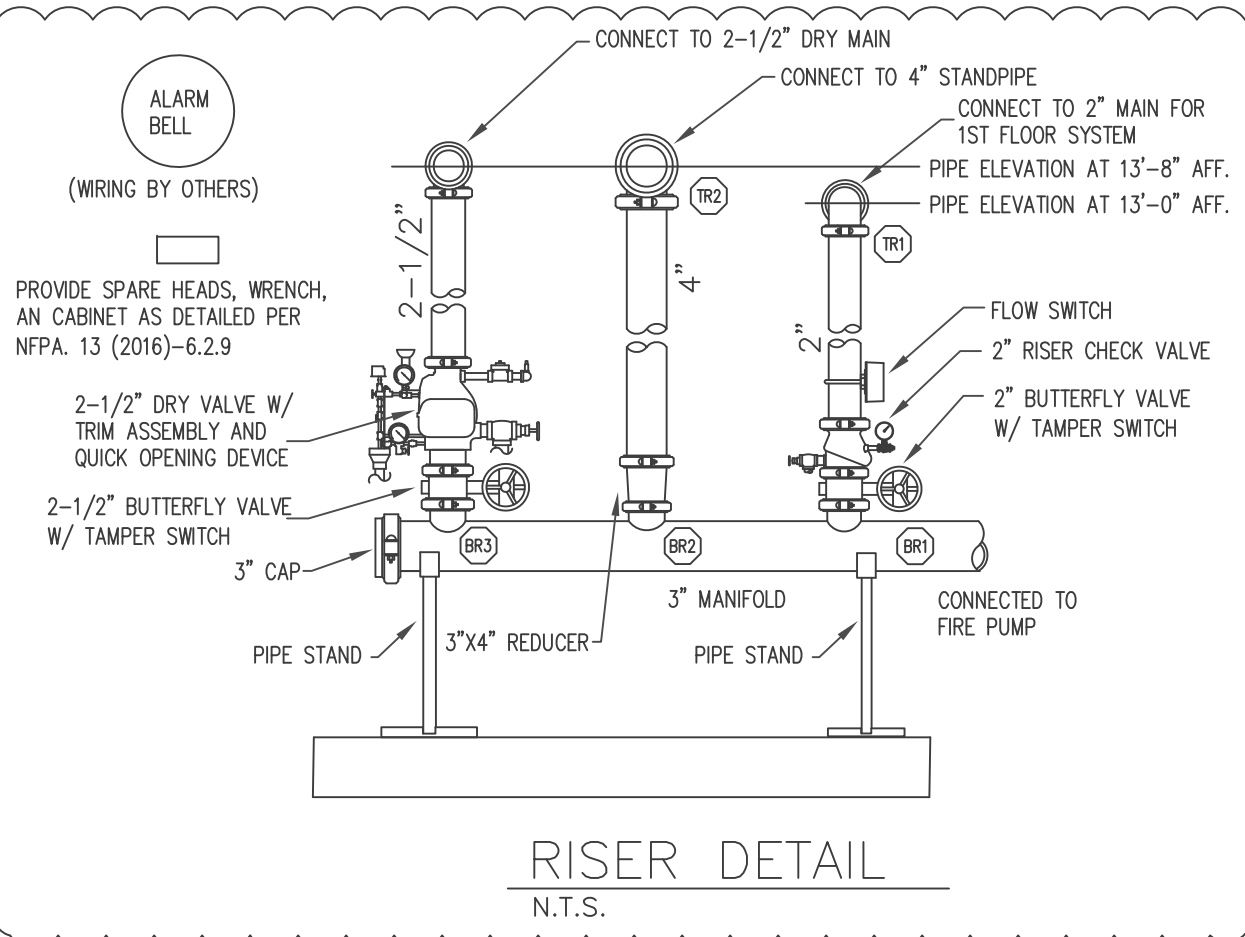
NOTE: DRY SYSTEM CAPACITY IS 182 GAL. AS PER NFPA 13(2016) 7.2.3.4 THE 60-SECOND LIMIT DOES NOT APPLY TO DRY SYSTEMS WITH CAPACITIES NOT MORE THAN 500 GAL.



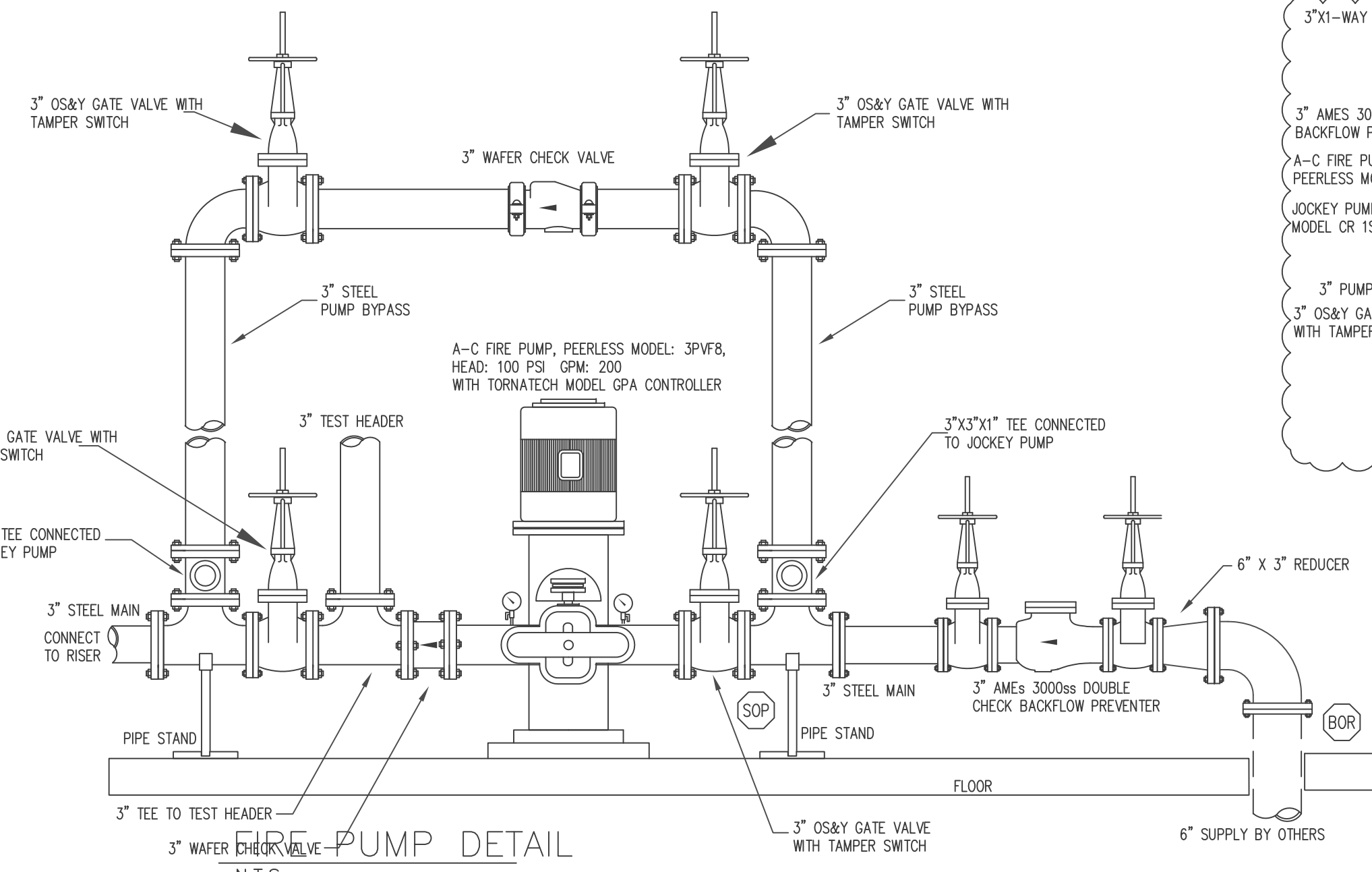
AIR COMPRESSOR AND TRIM DETAIL
N.T.S.



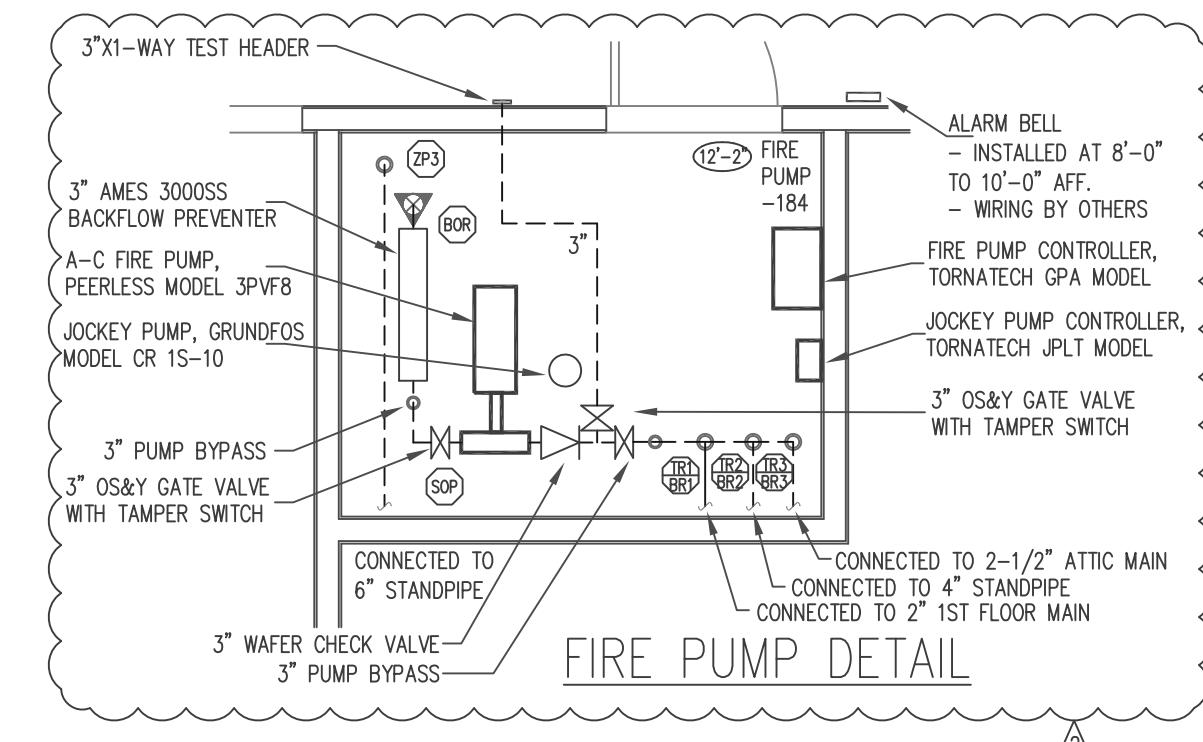
JOCKEY PUMP DETAIL
N.T.S.



RISER DETAIL
N.T.S.



FIRE PUMP DETAIL
N.T.S.



NOTE: FIRE PUMP ROOM WALLS TO BE 1 HR RATED MINIMUM PER NFPA 20 (2016-SEC.4.13)

FIRE PUMP INFORMATION
- A-C FIRE PUMP, PEERLESS MODEL: 3PVF8
HEAD: 100 PSI GPM: 200
ELECTRIC MOTOR: 30 HP, 3600 RPM, 3 PHASE 200 VOLT 60 HERTZ WITH TORNATECH MODEL GFA CONTROLLER
- JOCKEY PUMP, GRUNDFOS MODEL OR 15-10 WITH 0.75 HP, 3 PHASE 208-230 VOLT WITH TORNATECH MODEL JPLT CONTROLLER

NOTE: FIRE PUMP SHALL BE INSTALLED PER NFPA 20.

Water Supply Information		Material Information Notes		Design Criteria		Sprinklers		TOTAL THIS PROJECT: 1,043 Sprinklers		NO. Date Revisions By		DISCOUNT FIRE PROTECTION, LLC.		PROJECT: HOMewood SUITES										
STATIC PRESSURE	52 psi	Pipe Sizes 1" to 2"	Wheatland's MTL	5th Floor Rm. 502-504	Area 1	5th Floor Corridor	Area 2	4th Floor Rm. 402	Area 3	4th Floor Corridor	Area 4	2nd Floor Lodge	Area 5	1st Floor Laundry	Area 6	Area 7	Area 8	1 4/12/24	Added Stamps	K.N.	3500 SOUTH MERIDIAN PUYALLUP, WA. 98373	DATE: 2-15-2024	SCALE: 1/8"=1'-0"	CONTRACT WITH: THARALDSON HOSPITALITY 4520 36TH AVENUE SOUTH FARGO, ND. 58104
RESIDUAL PRESSURE	51 psi	Pipe Sizes 3/4" to 3"	NFPA 13	4th Floor Rm. 402	Area 1	4th Floor Corridor	Area 2	3rd Floor Rm. 302	Area 3	3rd Floor Corridor	Area 4	1st Floor Lobby	Area 5	1st Floor Laundry	Area 6	Area 7	Area 8	2 6/4/24	Added roof dry system	K.N.	4 Red Bluff Court Mansfield, Texas 76063 Phone: (817) 821-1877	SYSTEM NO. SYSTEM DETAILS DATE: 2-15-2024	SCALE: 1/8"=1'-0"	CONTRACT WITH: THARALDSON HOSPITALITY 4520 36TH AVENUE SOUTH FARGO, ND. 58104
FLOW IN G.P.M.	754 gpm	Dry Pipe Sizes 1" to 2"	NFPA 13	2nd Floor Lodge	Area 1	2nd Floor Corridor	Area 2	1st Floor Lobby	Area 3	1st Floor Corridor	Area 4	1st Floor Laundry	Area 5	1st Floor Laundry	Area 6	Area 7	Area 8				Licensed in the States of: TX Lic: SCR-02379798 CO Lic: 21-S-08105 OK Lic: A3419 MD Lic: MSC-593 (Class I, III)	SYSTEM NO. SYSTEM DETAILS DATE: 2-15-2024	SCALE: 1/8"=1'-0"	CONTRACT WITH: THARALDSON HOSPITALITY 4520 36TH AVENUE SOUTH FARGO, ND. 58104
DATE OF TEST	1-26-24	Dry Pipe Sizes 2-1/2" and larger	NFPA 13	1st Floor Lobby	Area 1	1st Floor Corridor	Area 2	1st Floor Laundry	Area 3	1st Floor Corridor	Area 4	1st Floor Laundry	Area 5	1st Floor Laundry	Area 6	Area 7	Area 8				Approved by: Timothy McBride RME # G-0825	SYSTEM NO. SYSTEM DETAILS DATE: 2-15-2024	SCALE: 1/8"=1'-0"	CONTRACT WITH: THARALDSON HOSPITALITY 4520 36TH AVENUE SOUTH FARGO, ND. 58104
TIME OF TEST	1:00 PM.	Dry Pipe Sizes 1-1/2" and larger	NFPA 13	1st Floor Lobby	Area 1	1st Floor Corridor	Area 2	1st Floor Laundry	Area 3	1st Floor Corridor	Area 4	1st Floor Laundry	Area 5	1st Floor Laundry	Area 6	Area 7	Area 8				Approved by: Timothy McBride RME # G-0825	SYSTEM NO. SYSTEM DETAILS DATE: 2-15-2024	SCALE: 1/8"=1'-0"	CONTRACT WITH: THARALDSON HOSPITALITY 4520 36TH AVENUE SOUTH FARGO, ND. 58104
TEST TAKEN BY	Fed, Ed	Job Plan Notes	NFPA 13	1st Floor Lobby	Area 1	1st Floor Corridor	Area 2	1st Floor Laundry	Area 3	1st Floor Corridor	Area 4	1st Floor Laundry	Area 5	1st Floor Laundry	Area 6	Area 7	Area 8				Approved by: Timothy McBride RME # G-0825	SYSTEM NO. SYSTEM DETAILS DATE: 2-15-2024	SCALE: 1/8"=1'-0"	CONTRACT WITH: THARALDSON HOSPITALITY 4520 36TH AVENUE SOUTH FARGO, ND. 58104
HYDRANT LOCATION	3601 9th Street Southwest	TYPE OF CONSTRUCTION:	NFPA 13	1st Floor Lobby	Area 1	1st Floor Corridor	Area 2	1st Floor Laundry	Area 3	1st Floor Corridor	Area 4	1st Floor Laundry	Area 5	1st Floor Laundry	Area 6	Area 7	Area 8				Approved by: Timothy McBride RME # G-0825	SYSTEM NO. SYSTEM DETAILS DATE: 2-15-2024	SCALE: 1/8"=1'-0"	CONTRACT WITH: THARALDSON HOSPITALITY 4520 36TH AVENUE SOUTH FARGO, ND. 58104
		OCCUPANCY CLASSIFICATION:	NFPA 13	1st Floor Lobby	Area 1	1st Floor Corridor	Area 2	1st Floor Laundry	Area 3	1st Floor Corridor	Area 4	1st Floor Laundry	Area 5	1st Floor Laundry	Area 6	Area 7	Area 8				Approved by: Timothy McBride RME # G-0825	SYSTEM NO. SYSTEM DETAILS DATE: 2-15-2024	SCALE: 1/8"=1'-0"	CONTRACT WITH: THARALDSON HOSPITALITY 4520 36TH AVENUE SOUTH FARGO, ND. 58104
		DESIGN APPROACH:	NFPA 13	1st Floor Lobby	Area 1	1st Floor Corridor	Area 2	1st Floor Laundry	Area 3	1st Floor Corridor	Area 4	1st Floor Laundry	Area 5	1st Floor Laundry	Area 6	Area 7	Area 8				Approved by: Timothy McBride RME # G-0825	SYSTEM NO. SYSTEM DETAILS DATE: 2-15-2024	SCALE: 1/8"=1'-0"	CONTRACT WITH: THARALDSON HOSPITALITY 4520 36TH AVENUE SOUTH FARGO, ND. 58104
		4 Most Demanding Area/Density	NFPA 13	1st Floor Lobby	Area 1	1st Floor Corridor	Area 2	1st Floor Laundry	Area 3	1st Floor Corridor	Area 4	1st Floor Laundry	Area 5	1st Floor Laundry	Area 6	Area 7	Area 8				Approved by: Timothy McBride RME # G-0825	SYSTEM NO. SYSTEM DETAILS DATE: 2-15-2024	SCALE: 1/8"=1'-0"	CONTRACT WITH: THARALDSON HOSPITALITY 4520 36TH AVENUE SOUTH FARGO, ND. 58104

Expires
DEC 31, 24
WASHINGTON STATE
CERTIFICATE OF COMPETENCY
FIRE SPRINKLER SYSTEMS

Timothy P. McBride
0168-0424-C Level 3
Discount Fire Protection, LLC
DISCOFP763B5

Timothy P. McBride
Signature
04/11/2024
Date

NOTE: DRY SYSTEM PIPING IN ATTIC SHALL BE PITCHED TOWARD RISER. MAINS SHALL BE PITCHED AT LEAST 1/4 INCH PER 10 FT. IN NON-REFRIGERATED AREA (PER NFPA 13 (2016) 8.16.2.3.1) AND MAINS SHALL BE PITCHED AT LEAST 1/2 INCH PER 10 FT. IN REFRIGERATED AREA (PER NFPA 13 (2016) 8.16.2.3.3).

NOTE: DRY SYSTEM CAPACITY IS 182 GAL. AS PER NFPA 13(2016) 7.2.3.4 THE 60-SECOND LIMIT DOES NOT APPLY TO DRY SYSTEMS WITH CAPACITIES NOT MORE THAN 500 GAL.

HOMewood SUITES

NOTE:
= HANGER FOR CPVC PIPE
X = HANGER FOR STEEL PIPE
= CPVC PIPE WITH DIAMETER AND LENGTH
S-X = STEEL PIPE WITH DIAMETER AND LENGTH

I HAVE REVIEWED THESE PLANS AND CERTIFY THAT THEY COMPLY WITH THE ADOPTED NFPA STANDARDS.

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SCR-G-2379798

RME-SIGNATURE: *Timothy McBride*
PRINTED NAME: Timothy McBride
RME-G-0825 DATE: _____

AS-BUILT SUBMITTAL OTHER

STEEL BRACING:
LONG = Longitudinal sway bracing
LAT = Lateral sway bracing
4-WAY = Four-way sway bracing

HYDRAULIC CALCULATION DESIGN INFO

CALC AREA: 8 - 1ST FLOOR POOL

OCCUPANCY: HOTEL

HAZARD: LIGHT

DENSITY: 0.10

AREA OF OPERATION: 900 SQ.FT.

AREA PER HEAD: 156 SQ. FT. MAXIMUM

HOSE ALLOWANCE: INSIDE - OUTSIDE 100 COMBINED 100

SYSTEM DEMAND

TOTAL PSI DEMAND: -49.02 PSI

TOTAL GPM DEMAND: 224.60 GPM

TOTAL PSI AVAILABLE: 51.89 PSI

SAFETY FACTOR: 100.91 PSI

HYDRAULIC CALCULATION DESIGN INFO

CALC AREA: 7 - 1ST FLOOR LAUNDRY

OCCUPANCY: HOTEL

HAZARD: LIGHT

DENSITY: 0.15

AREA OF OPERATION: 950 SQ.FT.

AREA PER HEAD: 130 SQ. FT. MAXIMUM

HOSE ALLOWANCE: INSIDE - OUTSIDE 250 COMBINED 250

SYSTEM DEMAND

TOTAL PSI DEMAND: -24.44 PSI

TOTAL GPM DEMAND: 462.87 GPM

TOTAL PSI AVAILABLE: 51.59 PSI

SAFETY FACTOR: 76.03 PSI

HYDRAULIC CALCULATION DESIGN INFO

CALC AREA: 6 - 1ST FLOOR REMOTE

OCCUPANCY: HOTEL

HAZARD: LIGHT

DENSITY: 0.15

AREA OF OPERATION: 900 SQ.FT.

AREA PER HEAD: 148 SQ. FT. MAXIMUM

HOSE ALLOWANCE: INSIDE - OUTSIDE 100 COMBINED 100

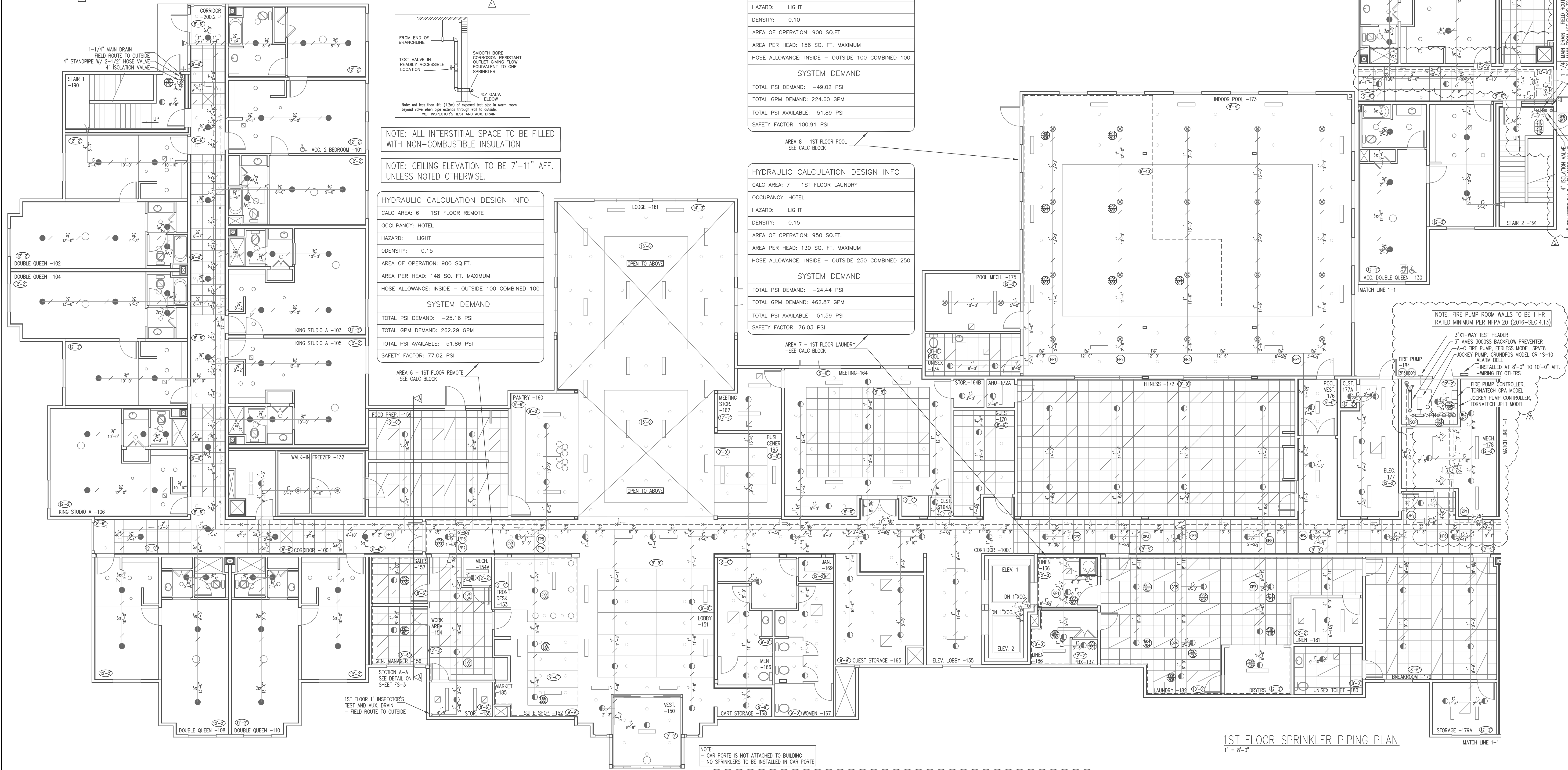
SYSTEM DEMAND

TOTAL PSI DEMAND: -25.16 PSI

TOTAL GPM DEMAND: 262.29 GPM

TOTAL PSI AVAILABLE: 51.86 PSI

SAFETY FACTOR: 77.02 PSI



NOTE: ALL INTERSTITIAL SPACE TO BE FILLED WITH NON-COMBUSTIBLE INSULATION

NOTE: CEILING ELEVATION TO BE 7'-11" AFF. UNLESS NOTED OTHERWISE.

NOTE: FIRE PUMP ROOM WALLS TO BE 1 HR RATED MINIMUM PER NFPA.20 (2016-SEC.4.13)

3"X1" WAY TEST HEADER
3" AMES 3000SS BACKFLOW PREVENTER
A-C FIRE PUMP, EERLESS MODEL 3PW8
JOCKEY PUMP, GRUNDOS MODEL CR 15-10
ALARM BELL
-INSTALLED AT 8'-0" TO 10'-0" AFF.
-WIRING BY OTHERS

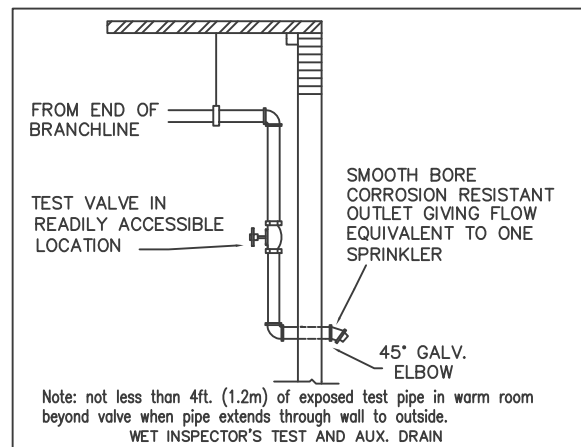
FIRE PUMP CONTROLLER, TORMATECH CPA MODEL
JOCKEY PUMP CONTROLLER, TORMATECH JPLT MODEL

1ST FLOOR SPRINKLER PIPING PLAN
1" = 8'-0"

NOTE:
- CAR PORTE IS NOT ATTACHED TO BUILDING
- NO SPRINKLERS TO BE INSTALLED IN CAR PORTE

	Water Supply Information Flow Test STATIC PRESSURE 52 psi RESIDUAL PRESSURE 51 psi FLOW IN G.P.M. 754 gpm DATE OF TEST 1-26-24 TIME OF TEST 1:00 PM. TEST TAKEN BY Ted, Ed Fruitland Mutual Water Company HYDRANT LOCATION 3601 9th Street Southwest		Material Information Notes Pipe Sizes 1" to 2" Wheatland's MLT Pipe Sizes 2-1/2" and larger Wheatland's Schedule 10 Pipe Sizes 3/4" to 3" NFPA 13 Pipe Sizes 3/4" to 3" NFPA 13 Dry Pipe Sizes 1" to 2" Allied Tube XL Dry Pipe Sizes 2-1/2" and larger Allied Tube Schedule 10 Job Plan Notes TYPE OF CONSTRUCTION: Wood/Noncombustible OCCUPANCY CLASSIFICATION: Light Hazard/Hotel DESIGN APPROACH: 4 Most Demanding Area/Density		Design Criteria <table border="1"> <thead> <tr> <th>SYSTEM NAME</th> <th>5th Floor Rm. 502-504</th> <th>5th Floor Corridor</th> <th>4th Floor Rm. 402</th> <th>4th Floor Corridor</th> <th>2nd Floor Lodge</th> <th>1st Floor Remote</th> <th>1st Floor laundry</th> <th>1st Floor Pool</th> </tr> </thead> <tbody> <tr> <td>SYSTEM NO.</td> <td>Area 1</td> <td>Area 2</td> <td>Area 3</td> <td>Area 4</td> <td>Area 5</td> <td>Area 6</td> <td>Area 7</td> <td>Area 8</td> </tr> <tr> <td>SPRINKLER AREA</td> <td>14'x14' sq.ft. maximum</td> <td>14'x14' sq.ft. maximum</td> <td>18'x18' sq.ft. maximum</td> <td>18'x18' sq.ft. maximum</td> <td>162.5 sq.ft. maximum</td> <td>148 sq.ft. maximum</td> <td>130 sq.ft. maximum</td> <td>156 sq.ft. maximum</td> </tr> <tr> <td>HAZARD/DENSITY</td> <td>Light/0.10</td> <td>Light/0.10</td> <td>Light/0.10</td> <td>Light/0.10</td> <td>Light/0.10</td> <td>Ord./0.15</td> <td>Ord./0.15</td> <td>Light/0.10</td> </tr> <tr> <td>DESIGN AREA</td> <td>4 Remote Sprinklers</td> <td>5 Remote Sprinklers</td> <td>4 Remote Sprinklers</td> <td>5 Remote Sprinklers</td> <td>1,013 sq.ft.</td> <td>950 sq.ft.</td> <td>950 sq.ft.</td> <td>900 sq.ft.</td> </tr> <tr> <td>SYSTEM PSI REQUIRED</td> <td>34.74 psi</td> <td>-42.99 psi</td> <td>6.82 psi</td> <td>-37.41 psi</td> <td>-21.41 psi</td> <td>58.73 psi</td> <td>-24.44 psi</td> <td>-49.02 psi</td> </tr> <tr> <td>SYSTEM GPM REQUIRED</td> <td>169.16 gpm</td> <td>166.49 gpm</td> <td>178.35 gpm</td> <td>186.99 gpm</td> <td>251.89 gpm</td> <td>186.28 gpm</td> <td>462.87 gpm</td> <td>224.60 gpm</td> </tr> <tr> <td>NO. SPKR.</td> <td>4 heads</td> <td>5 heads</td> <td>4 heads</td> <td>5 heads</td> <td>9 heads</td> <td>9 heads</td> <td>11 heads</td> <td>7 heads</td> </tr> <tr> <td>ELEV. @ HIGHEST SPKR</td> <td>7'-5" AFF</td> <td>7'-5" AFF</td> <td>7'-11" AFF</td> <td>7'-11" AFF</td> <td>15'-0" AFF</td> <td>12'-2" AFF</td> <td>12'-2" AFF</td> <td>9'-10" AFF</td> </tr> <tr> <td>HOSE REQUIREMENT</td> <td>100 GPM</td> <td>100 GPM</td> <td>100 GPM</td> <td>100 GPM</td> <td>100 GPM</td> <td>100 GPM</td> <td>250 GPM</td> <td>100 GPM</td> </tr> <tr> <td>SAFETY FACTOR</td> <td>17.20 psi</td> <td>94.92 psi</td> <td>45.11 psi</td> <td>89.33 psi</td> <td>73.27 psi</td> <td>19.84 psi</td> <td>76.03 psi</td> <td>100.91 psi</td> </tr> </tbody> </table>		SYSTEM NAME	5th Floor Rm. 502-504	5th Floor Corridor	4th Floor Rm. 402	4th Floor Corridor	2nd Floor Lodge	1st Floor Remote	1st Floor laundry	1st Floor Pool	SYSTEM NO.	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	SPRINKLER AREA	14'x14' sq.ft. maximum	14'x14' sq.ft. maximum	18'x18' sq.ft. maximum	18'x18' sq.ft. maximum	162.5 sq.ft. maximum	148 sq.ft. maximum	130 sq.ft. maximum	156 sq.ft. maximum	HAZARD/DENSITY	Light/0.10	Light/0.10	Light/0.10	Light/0.10	Light/0.10	Ord./0.15	Ord./0.15	Light/0.10	DESIGN AREA	4 Remote Sprinklers	5 Remote Sprinklers	4 Remote Sprinklers	5 Remote Sprinklers	1,013 sq.ft.	950 sq.ft.	950 sq.ft.	900 sq.ft.	SYSTEM PSI REQUIRED	34.74 psi	-42.99 psi	6.82 psi	-37.41 psi	-21.41 psi	58.73 psi	-24.44 psi	-49.02 psi	SYSTEM GPM REQUIRED	169.16 gpm	166.49 gpm	178.35 gpm	186.99 gpm	251.89 gpm	186.28 gpm	462.87 gpm	224.60 gpm	NO. 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G.P.M.</th> <th>Orifice</th> <th>Temp.</th> <th>Thread Size</th> <th>Sprinkler Finish</th> <th>Escutcheon</th> <th>Escutcheon Finish</th> <th>FS-4</th> <th>FS-5</th> <th>FS-6</th> <th>FS-7</th> <th>FS-9</th> <th>FS-10</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>●</td> <td>Tyco</td> <td>LFI</td> <td>TY2524</td> <td>Residential</td> <td>4.9</td> <td>12.0</td> <td>7/16"</td> <td>155°</td> <td>1/2"</td> <td>White</td> <td>Concealed</td> <td>White</td> <td>115</td> <td>28</td> <td>10</td> <td>10</td> <td>0</td> <td>0</td> <td>577</td> </tr> <tr> <td>○</td> <td>Tyco</td> <td>RPI</td> <td>TY3531</td> <td>QR Concealed</td> <td>5.6</td> <td>N/A</td> <td>N/A</td> <td>1/2"</td> <td>155°</td> <td>1/2"</td> <td>White</td> <td>Concealed</td> <td>White</td> <td>22</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>22</td> </tr> <tr> <td>⊗</td> <td>Tyco</td> <td>DS-1</td> <td>TY3255</td> <td>Dry Pendant</td> <td>5.6</td> <td>N/A</td> <td>N/A</td> <td>1/2"</td> <td>155°</td> <td>1"</td> <td>Brass</td> <td>Brass</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> </tr> <tr> <td>◀</td> <td>Tyco</td> <td>LFI</td> <td>TY2524</td> <td>Residential</td> <td>4.2</td> <td>9.6</td> <td>13/16"</td> <td>160°</td> <td>1/2"</td> <td>White</td> <td>Concealed</td> <td>White</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>202</td> <td>0</td> <td>202</td> </tr> <tr> <td>◀</td> <td>Tyco</td> <td>TY-FBB</td> <td>TY3351</td> <td>QR Sidewall</td> <td>5.6</td> <td>N/A</td> <td>N/A</td> <td>1/2"</td> <td>155°</td> <td>1/2"</td> <td>White</td> <td>Recessed</td> <td>White</td> <td>5</td> <td>2</td> <td>3</td> <td>0</td> <td>14</td> <td>0</td> <td>24</td> </tr> <tr> <td>◀</td> <td>Tyco</td> <td>TY3335</td> <td>TY3335</td> <td>Dry Sidewall</td> <td>5.6</td> <td>N/A</td> <td>N/A</td> <td>-</td> <td>200"</td> <td>1"</td> <td>White</td> <td>Semi-rec</td> <td>White</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> </tr> <tr> <td>○</td> <td>Tyco</td> <td>TY3151</td> <td>Standard Upright</td> <td>5.6</td> <td>N/A</td> <td>N/A</td> <td>1/2"</td> <td>200°</td> <td>1/2"</td> <td>Brass</td> <td>-</td> <td>-</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>51</td> <td>51</td> </tr> </tbody> </table>		Symbol	Make	Model	Style	K-Fac.	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Date	Revisions	By	1	4/12/24	Added Stamps	K.N.	2	6/4/24	Added roof dry system	K.N.	<p>DISCOUNT FIRE PROTECTION, LLC. 4 Red Bluff Court Mansfield, Texas 76063 Phone: (817) 821-1877</p> <p>PROJECT: HOMewood SUITES 3500 SOUTH MERIDIAN PUYALLUP, WA. 98373</p> <p>CONTRACT WITH: THARALDSON HOSPITALITY 4520 36TH AVENUE SOUTH FARGO, ND. 58104</p> <p>Licensed in the State of: _____ CO Lic: 21-S-08105 TX Lic: SCR-G-2379798 OK Lic: A3419 CA Lic: MSC-593 (Class I, III)</p> <p>DATE: 2-15-2024 SCALE: 1/8"=1'-0" CITY: City of Puyallup SHEET NO. FS-4 SHT. 4 OF 10</p>	
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HOMEWOOD SUITES



NOTE: ALL INTERSTITIAL SPACE TO BE FILLED WITH NON-COMBUSTIBLE INSULATION

NOTE: CEILING ELEVATION TO BE 7'-11" AFF. UNLESS NOTED OTHERWISE.

STEEL BRACING:
 LONG = Longitudinal sway bracing
 LAT = Lateral sway bracing
 4-WAY = Four-way sway bracing

NOTE:
 H = HANGER FOR CPVC PIPE
 X = CPVC PIPE WITH DIAMETER AND LENGTH
 S-X = STEEL PIPE WITH DIAMETER AND LENGTH

I HAVE REVIEWED THESE PLANS AND CERTIFY THAT THEY COMPLY WITH THE ADOPTED NFPA STANDARDS.
 DISCOUNT FIRE PROTECTION, LLC.
 4 RED BLUFF COURT
 MANSFIELD, TX. 76063
 817-821-1877
 SCR-G-2379798

RME-SIGNATURE: *Timothy McBride*
 PRINTED RME NAME: Timothy McBride
 RME-G-0825 DATE: _____

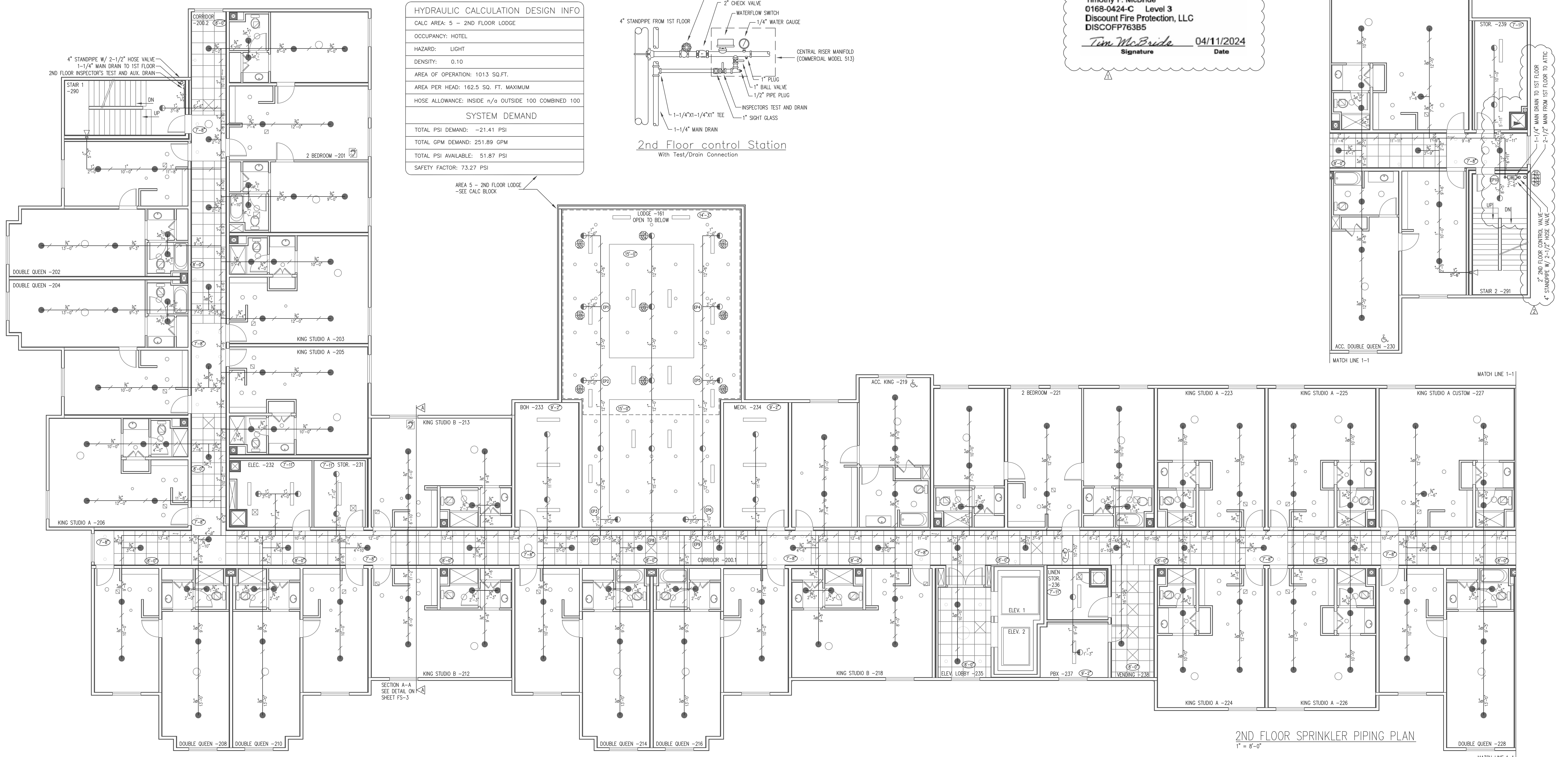
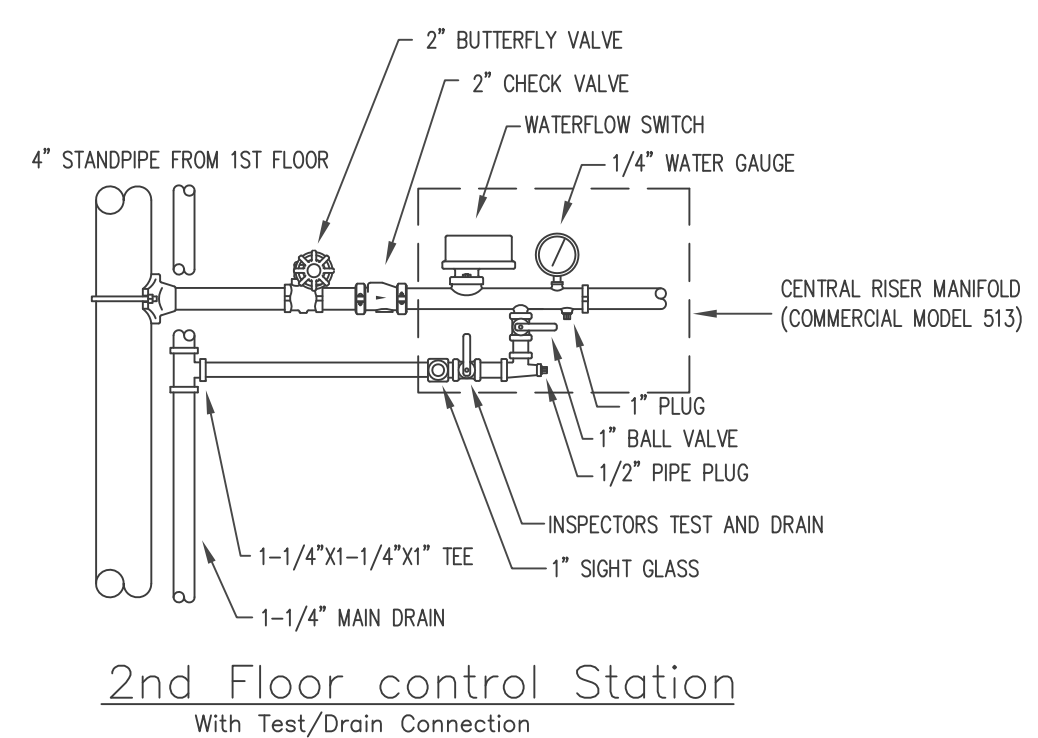
AS-BUILT SUBMITTAL OTHER

Expires DEC 31, 24
WASHINGTON STATE
CERTIFICATE OF COMPETENCY
FIRE SPRINKLER SYSTEMS

Timothy P. McBride
 0168-0424-C Level 3
 Discount Fire Protection, LLC
 DISCOFFP763B5

Tim McBride 04/11/2024
 Signature Date

HYDRAULIC CALCULATION DESIGN INFO	
CALC AREA:	5 - 2ND FLOOR LODGE
OCCUPANCY:	HOTEL
HAZARD:	LIGHT
DENSITY:	0.10
AREA OF OPERATION:	1013 SQ.FT.
AREA PER HEAD:	162.5 SQ. FT. MAXIMUM
HOSE ALLOWANCE:	INSIDE n/a OUTSIDE 100 COMBINED 100
SYSTEM DEMAND	
TOTAL PSI DEMAND:	-21.41 PSI
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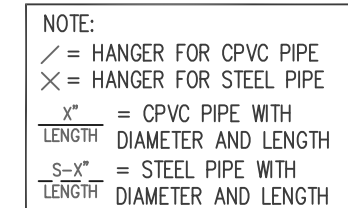
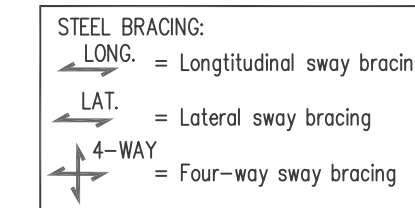
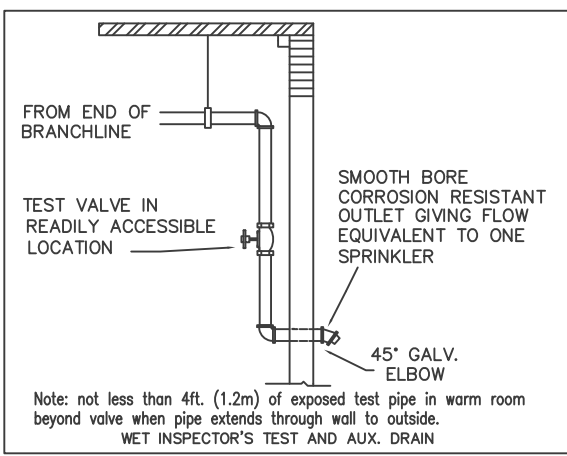
2ND FLOOR SPRINKLER PIPING PLAN
 1" = 8'-0"

	Water Supply Information Flow Test STATIC PRESSURE: 52 psi RESIDUAL PRESSURE: 51 psi FLOW IN G.P.M.: 754 gpm DATE OF TEST: 1-28-24 TIME OF TEST: 1:00 PM. TEST TAKEN BY: Ted, Ed Fruitland Mutual Water Company HYDRANT LOCATION: 3601 9th Street Southwest	Material Information Notes Pipe Sizes 1" to 2" Wheatland's MLT Pipe Sizes 3/4" to 3": NFPA 13 Wheatland's Schedule 10 Biscanmaster Dry Pipe Sizes 1" to 2" Allied Tube XL Dry Pipe Sizes 2-1/2" and larger Allied Tube Schedule 10 Job Plan Notes TYPE OF CONSTRUCTION: Wood/Noncombustible OCCUPANCY CLASSIFICATION: Light Hazard/Hotel DESIGN APPROACH: 4 Most Demanding Area/Density	Design Criteria <table border="1"> <thead> <tr> <th>SYSTEM NAME</th> <th>5th Floor Rm. 502-504</th> <th>5th Floor Corridor</th> <th>4th Floor Rm. 402</th> <th>4th Floor Corridor</th> <th>2nd Floor Lodge</th> <th>1st Floor Remote</th> <th>1st Floor laundry</th> <th>1st Floor Pool</th> </tr> </thead> <tbody> <tr> <td>SYSTEM NO.</td> <td>Area 1</td> <td>Area 2</td> <td>Area 3</td> <td>Area 4</td> <td>Area 5</td> <td>Area 6</td> <td>Area 7</td> <td>Area 8</td> </tr> <tr> <td>SPRINKLER AREA</td> <td>14'x14' sq.ft. maximum</td> <td>14'x14' sq.ft. maximum</td> <td>18'x18' sq.ft. maximum</td> <td>18'x18' sq.ft. maximum</td> <td>162.5 sq.ft. maximum</td> <td>148 sq.ft. maximum</td> <td>130 sq.ft. maximum</td> <td>156 sq.ft. maximum</td> </tr> <tr> <td>HAZARD/DENSITY</td> <td>Light/0.10</td> <td>Light/0.10</td> <td>Light/0.10</td> <td>Light/0.10</td> <td>Light/0.10</td> <td>Ord./0.15</td> <td>Light/0.10</td> <td>Light/0.10</td> </tr> <tr> <td>DESIGN AREA</td> <td>4 Remote Sprinklers</td> <td>5 Remote Sprinklers</td> <td>4 Remote Sprinklers</td> <td>5 Remote Sprinklers</td> <td>1,013 sq.ft.</td> <td>950 sq.ft.</td> <td>950 sq.ft.</td> <td>900 sq.ft.</td> </tr> <tr> <td>SYSTEM PSI REQUIRED</td> <td>34.74 psi</td> <td>-42.99 psi</td> <td>6.82 psi</td> <td>-37.41 psi</td> <td>-21.41 psi</td> <td>58.73 psi</td> <td>-24.44 psi</td> <td>-49.02 psi</td> </tr> <tr> <td>SYSTEM GPM REQUIRED</td> <td>169.16 gpm</td> <td>166.49 gpm</td> <td>178.35 gpm</td> <td>186.99 gpm</td> <td>251.89 gpm</td> <td>186.28 gpm</td> <td>462.87 gpm</td> <td>224.60 gpm</td> </tr> <tr> <td>NO. SPKR.</td> <td>4 heads</td> <td>5 heads</td> <td>4 heads</td> <td>5 heads</td> <td>9 heads</td> <td>9 heads</td> <td>11 heads</td> <td>7 heads</td> </tr> <tr> <td>ELEV. @ HIGHEST SPKR</td> <td>7'-5" AFF</td> <td>7'-5" AFF</td> <td>7'-11" AFF</td> <td>7'-11" AFF</td> <td>15'-0" AFF</td> <td>12'-2" AFF</td> <td>12'-2" AFF</td> <td>9'-10" AFF</td> </tr> <tr> <td>HOSE REQUIREMENT</td> <td>100 GPM</td> <td>100 GPM</td> <td>100 GPM</td> <td>100 GPM</td> <td>100 GPM</td> <td>100 GPM</td> <td>250 GPM</td> <td>100 GPM</td> </tr> <tr> <td>SAFETY FACTOR</td> <td>17.20 psi</td> <td>94.92 psi</td> <td>45.11 psi</td> <td>89.33 psi</td> <td>73.27 psi</td> <td>19.84 psi</td> <td>76.03 psi</td> <td>100.91 psi</td> </tr> </tbody> </table>	SYSTEM NAME	5th Floor Rm. 502-504	5th Floor Corridor	4th Floor Rm. 402	4th Floor Corridor	2nd Floor Lodge	1st Floor Remote	1st Floor laundry	1st Floor Pool	SYSTEM NO.	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DISCOUNT FIRE PROTECTION, LLC. 4 Red Bluff Court Mansfield, Texas 76063 Phone: (817) 821-1877 Licensed in the States of: TX Lic: SCR-G-2379798 OK Lic: A3419 CO Lic: 21-S-08105 CA Lic: 1050892 MD Lic: MSC-593 (Class I, III) Approved By: <i>Timothy McBride</i> Timothy McBride RME # G-0825 Date: _____	PROJECT: HOMEWOOD SUITES 3500 SOUTH MERIDIAN PUYALLUP, WA. 98373 CONTRACT WITH: THARALDSON HOSPITALITY 4520 36TH AVENUE SOUTH FARGO, ND. 58104 SYSTEM NO: 2ND FLOOR PIPING PLAN DATE: 2-15-2024 DRAWN BY: K. Norong SCALE: 1/8"=1'-0" CHECKED BY: Timothy McBride AN: City of Puyallup ENGINEERING MANAGER: Timothy McBride SHEET NO. FS-5 LISTED BY: Timothy McBride BRANCH MANAGER: Timothy McBride SHEET NO. FS-5 SHEET 5 OF 10
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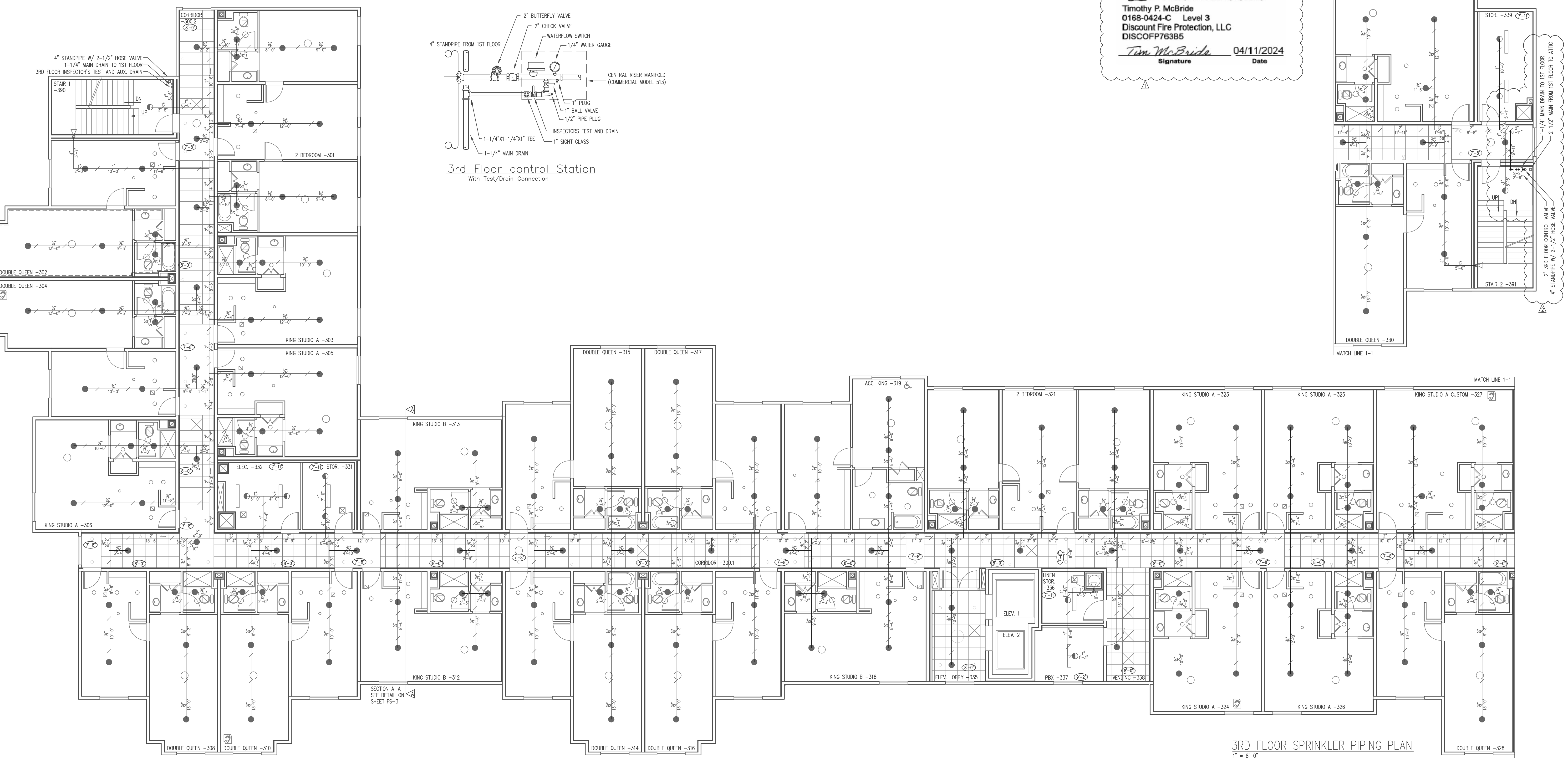
NOTE: ALL INTERSTITIAL SPACE TO BE FILLED WITH NON-COMBUSTIBLE INSULATION

NOTE: CEILING ELEVATION TO BE 7'-11" AFF. UNLESS NOTED OTHERWISE.



I HAVE REVIEWED THESE PLANS AND CERTIFY THAT THEY COMPLY WITH THE ADOPTED NFPA STANDARDS.
DISCOUNT FIRE PROTECTION, LLC.
4 RED BLUFF COURT
MANSFIELD, TX, 76063
817-821-1877
SCR-G-2379798
RME-SIGNATURE: Timothy McBride
PRINTED RME NAME: Timothy McBride
RME-G-0825
DATE:
 AS-BUILT SUBMITTAL OTHER

Expires DEC 31, 24
WASHINGTON STATE CERTIFICATE OF COMPETENCY FIRE SPRINKLER SYSTEMS
Timothy P. McBride
0168-0424-C Level 3
Discount Fire Protection, LLC
DISCOFP763B5
Timothy McBride 04/11/2024
Signature Date



3RD FLOOR SPRINKLER PIPING PLAN
1" = 8'-0"

<p>NOTE: ALL DOCUMENTS, INCLUDING ORIGINAL DRAWINGS, SPECIFICATIONS, AND NOTES, ESTIMATES AND DATA, INCLUDING COMPUTER PROGRAMS PURSUANT TO THIS PROJECT ARE AND WILL REMAIN THE PROPERTY OF DISCOUNT FIRE PROTECTION, LLC. ANY REPRODUCTION OR DISTRIBUTION OF THESE DOCUMENTS WITHOUT THE WRITTEN PERMISSION OF DISCOUNT FIRE PROTECTION, LLC IS STRICTLY PROHIBITED. THE CLIENT'S USE OF THESE DOCUMENTS FOR ANY OTHER PROJECT, ANY REUSE, OR ADAPTATION OF THE INFORMATION CONTAINED HEREIN, WITHOUT EXPRESS WRITTEN PERMISSION OF DISCOUNT FIRE PROTECTION, LLC, IS STRICTLY PROHIBITED. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ANY AND ALL APPLICABLE AGENCIES AND AUTHORITIES. 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HOMewood SUITES

STEEL BRACING:
 LONG. = Longitudinal sway bracing
 LAT. = Lateral sway bracing
 4-WAY = Four-way sway bracing

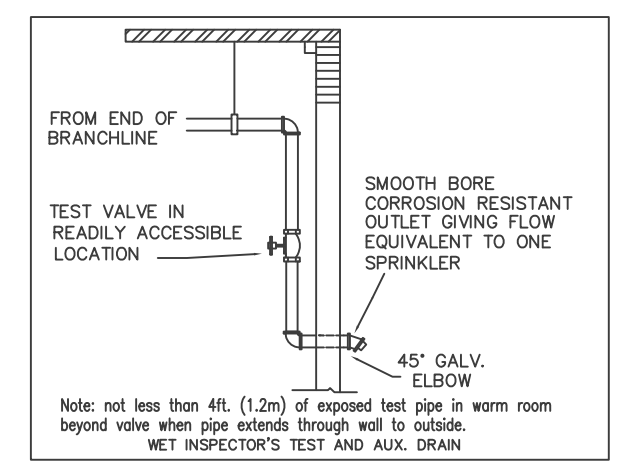
NOTE:
 X = HANGER FOR CPVC PIPE
 X = CPVC PIPE WITH DIAMETER AND LENGTH
 S-X = STEEL PIPE WITH DIAMETER AND LENGTH

I HAVE REVIEWED THESE PLANS AND CERTIFY THAT THEY COMPLY WITH THE ADOPTED NFPA STANDARDS.
 DISCOUNT FIRE PROTECTION, LLC
 4 RED BLUFF COURT
 MANSFIELD, TX. 76063
 817-821-1877
 SCR-G-2379788

RME-SIGNATURE: Timothy McBride
 PRINTED RME NAME: Timothy McBride
 RME-G-0825 DATE: 04/11/2024

AS-BUILT SUBMITTAL OTHER

Expires Dec 31, 24
WASHINGTON STATE CERTIFICATE OF COMPETENCY
FIRE SPRINKLER SYSTEMS
 Timothy P. McBride
 0168-0424-C Level 3
 Discount Fire Protection, LLC
 DISCOFP763B5
Tim McBride Signature
 04/11/2024 Date



NOTE: ALL INTERSTITIAL SPACE TO BE FILLED WITH NON-COMBUSTIBLE INSULATION

NOTE: CEILING ELEVATION TO BE 7'-11" AFF. UNLESS NOTED OTHERWISE.

HYDRAULIC CALCULATION DESIGN INFO

CALC AREA: 3 - 4TH FLOOR ROOM 402

OCCUPANCY: HOTEL

HAZARD: LIGHT

DENSITY: 0.10

AREA OF OPERATION: 4 REMOTE SPRINKLERS

AREA PER HEAD: 170 SQ. FT. MAXIMUM

HOSE ALLOWANCE: INSIDE n/a OUTSIDE 100 COMBINED 100

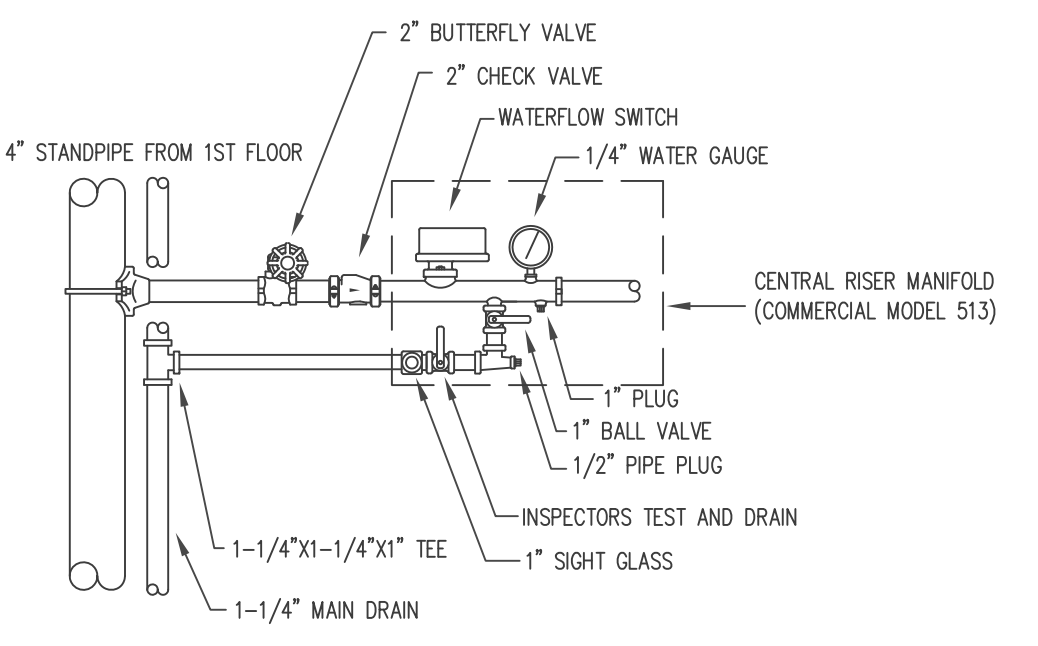
SYSTEM DEMAND

TOTAL PSI DEMAND: 6.82 PSI

TOTAL GPM DEMAND: 178.35 GPM

TOTAL PSI AVAILABLE: 51.93 PSI

SAFETY FACTOR: 45.11 PSI



HYDRAULIC CALCULATION DESIGN INFO

CALC AREA: 4 - 4TH FLOOR CORRIDOR

OCCUPANCY: HOTEL

HAZARD: LIGHT

DENSITY: 0.10

AREA OF OPERATION: 5 REMOTE SPRINKLERS

AREA PER HEAD: 170 SQ. FT. MAXIMUM

HOSE ALLOWANCE: INSIDE n/a OUTSIDE 100 COMBINED 100

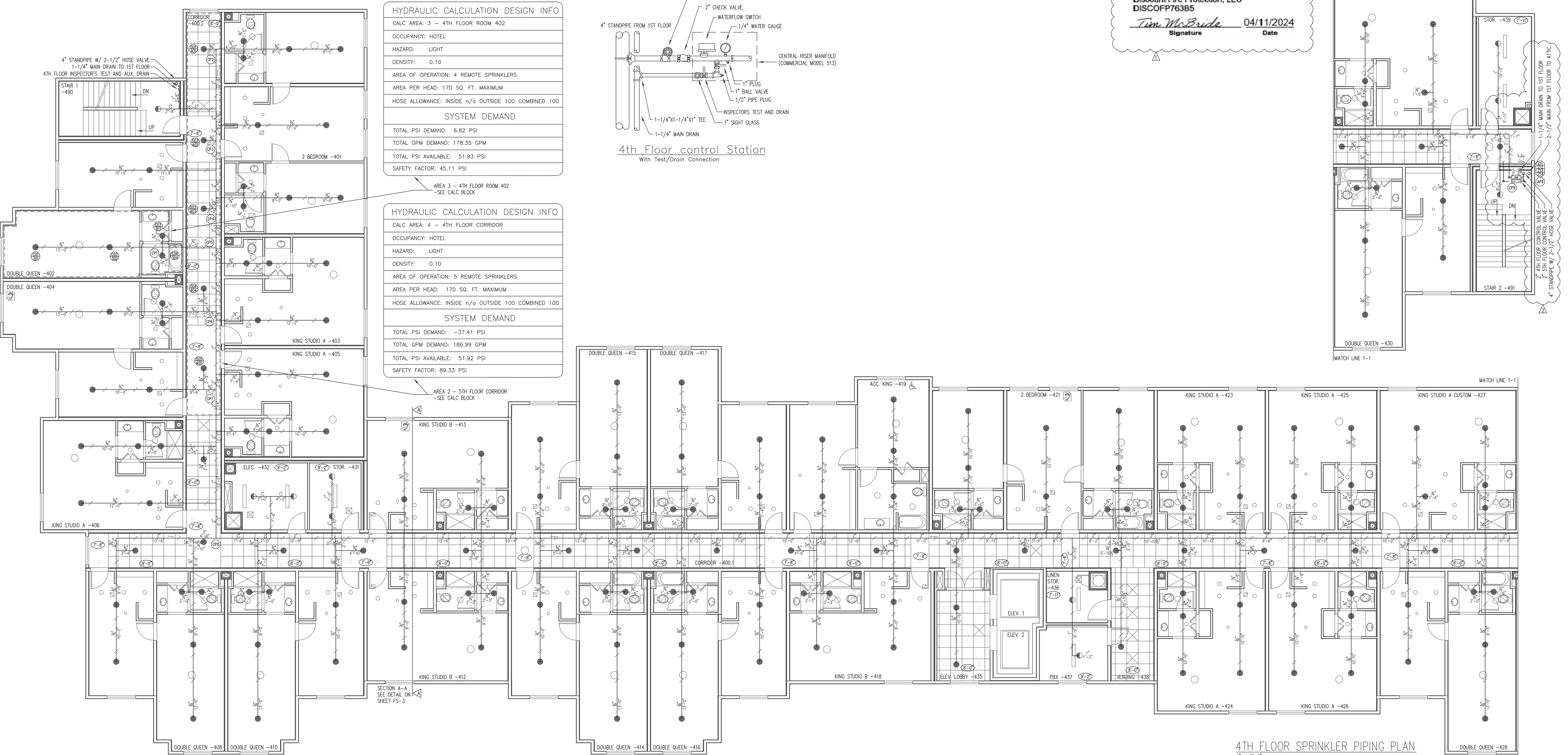
SYSTEM DEMAND

TOTAL PSI DEMAND: -37.41 PSI

TOTAL GPM DEMAND: 186.99 GPM

TOTAL PSI AVAILABLE: 51.92 PSI

SAFETY FACTOR: 89.33 PSI



4TH FLOOR SPRINKLER PIPING PLAN
 1" = 8'-0"

2 1 0 4 8
 SCALE: 1/8"=1'-0"

NOTICE
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Water Supply Information

STATIC PRESSURE	52 psi
RESIDUAL PRESSURE	51 psi
FLOW IN G.P.M.	754 gpm
DATE OF TEST	1-26-24
TIME OF TEST	1:00 PM.
TEST TAKEN BY	Fed, Ed Triuland Mutual Water Company
HYDRANT LOCATION	3601 9th Street Southwest

Material Information Notes

Pipe Sizes 1" to 2":
 Wheeland's MTL
 Pipe Sizes 2-1/2" and larger:
 Wheeland's Schedule 10
 Pipe Sizes 3/4" to 3":
 NFPA 13
 Giacomini
 Dry Pipe Sizes 1" to 2":
 Allied Tube XL
 Dry Pipe Sizes 2-1/2" and larger:
 Allied Tube Schedule 10

Job Plan Notes

TYPE OF CONSTRUCTION:
 Wood/Noncombustible
 OCCUPANCY CLASSIFICATION:
 Light Hazard/Hotel
 DESIGN APPROACH:
 4 Most Demanding Area/Density

Design Criteria

SYSTEM NAME	5th Floor Rm. 502-504	5th Floor Corridor	4th Floor Rm. 402	4th Floor Corridor	2nd Floor Lodge	1st Floor Laundry	1st Floor Pool
SYSTEM NO.	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7
SPRINKLER AREA	14'x14' sq.ft. maximum	14'x14' sq.ft. maximum	18'x18' sq.ft. maximum	18'x18' sq.ft. maximum	162.5 sq.ft. maximum	148 sq.ft. maximum	130 sq.ft. maximum
HAZARD/DENSITY	Light/0.10	Light/0.10	Light/0.10	Light/0.10	Light/0.10	Ord./0.15	Light/0.10
DESIGN AREA	4 Remote Sprinklers	5 Remote Sprinklers	4 Remote Sprinklers	5 Remote Sprinklers	1,013 sq.ft.	950 sq.ft.	900 sq.ft.
SYSTEM PSI REQUIRED	34.74 psi	-42.99 psi	6.82 psi	-37.41 psi	-21.41 psi	58.73 psi	-24.44 psi
SYSTEM GPM REQUIRED	169.16 gpm	166.49 gpm	178.35 gpm	186.99 gpm	251.89 gpm	186.28 gpm	462.87 gpm
NO. SPKR.	4 heads	5 heads	4 heads	5 heads	9 heads	11 heads	7 heads
ELEV. @ HIGHEST SPKR	7'-5" AFF	7'-5" AFF	7'-11" AFF	7'-11" AFF	15'-0" AFF	12'-2" AFF	9'-10" AFF
HOSE REQUIREMENT	100 GPM	100 GPM	100 GPM	100 GPM	100 GPM	100 GPM	250 GPM
SAFETY FACTOR	17.20 psi	94.92 psi	45.11 psi	89.33 psi	73.27 psi	19.84 psi	100.91 psi

Sprinklers

Symbol	Make	Model	Style	K-Fac.	Min. PSI	Min. GPM	Orifice	Temp.	Sprinkler Size	Sprinkler Finish	Escutcheon	Escutcheon Finish	FS-4	FS-5	FS-6	FS-7	FS-9	FS-10	For Project	
●	Tyco	LFLI TY2524 18'x18'	Residential Concealed/pend	4.9	12.0	17.0	7/16"	155°	1/2"	White	Concealed	White	115	28	10	10	0	0	0	577
○	Tyco	RFFI TY3531	QR Concealed Pendant	5.6	N/A	N/A	1/2"	155°	1/2"	White	Concealed	White	22	0	0	0	0	0	0	22
⊗	Tyco	DS-1 TY3255	Dry Pendant	5.6	N/A	N/A	1/2"	155°	1"	Brass	—	Brass	2	0	0	0	0	0	0	2
◀	Tyco	LFLI TY2524 18'x14'	Residential Conc-SideWall	4.2	9.6	13.0	7/16"	160°	1/2"	White	Concealed	White	0	0	0	0	202	0	0	202
◀	Tyco	TY-FRB TY3331	QR SideWall	5.6	N/A	N/A	1/2"	155°	1/2"	White	Recessed	White	5	2	3	0	14	0	0	24
◀	Tyco	DS-1 TY3335	Dry SideWall	5.6	N/A	N/A	—	200°	1"	White	Semi-rec	White	2	0	0	0	0	0	0	2
○	Tyco	TY3151	Standard Upright	5.6	N/A	N/A	1/2"	200°	1/2"	Brass	—	—	0	0	0	0	0	0	51	51

TOTAL THIS PROJECT: 1,043 Sprinklers

Revisions

NO.	Date	Revisions	By
1	4/12/24	Added Stamps	K.N.
2	6/4/24	Added roof dry system	K.N.

DISCOUNT FIRE PROTECTION, LLC.
 4 Red Bluff Court
 Mansfield, Texas 76063
 Phone: (817) 821-1877

Licensed in the States of:
 TX Lic: SCR-G-2379788
 CA Lic: 1050892
 MD Lic: MSC-593 (Class I, III)

CO Lic: 21-S-08105
 OK Lic: A3419

Approved By: *Timothy McBride*
 Timothy McBride RME # G-0825
 Date: _____

PROJECT: HOMEWOOD SUITES
 3500 SOUTH MERIDIAN
 PUYALLUP, WA. 98373

CONTRACT WITH: THARALDSON HOSPITALITY
 4520 36TH AVENUE SOUTH
 FARGO, ND. 58104

SYSTEM NO: 4TH FLOOR PIPING PLAN
 DATE: 2-15-2024

DRAWN BY: K. Narong
 SCALE: 1/8"=1'-0"

ENGINEER: Timothy McBride
 CITY: Puyallup

TESTED BY: Timothy McBride
 SHEET NO. FS-7

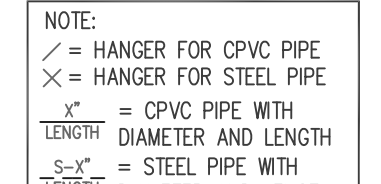
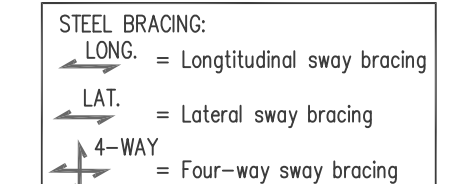
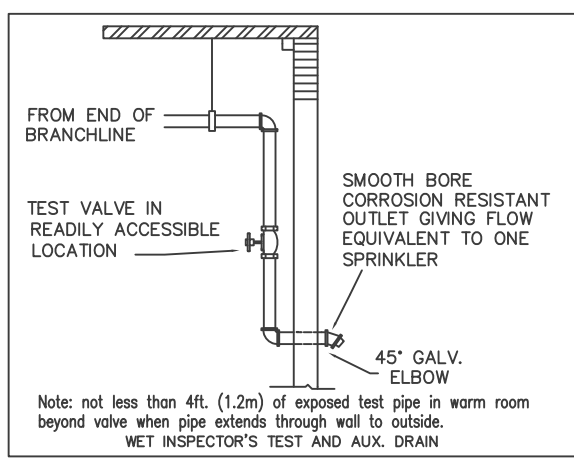
BRANCH MANAGER: Timothy McBride
 SHEET NO. FS-7

HOMewood SUITES

NOTE: ALL INTERSTITIAL SPACE TO BE FILLED WITH NON-COMBUSTIBLE INSULATION

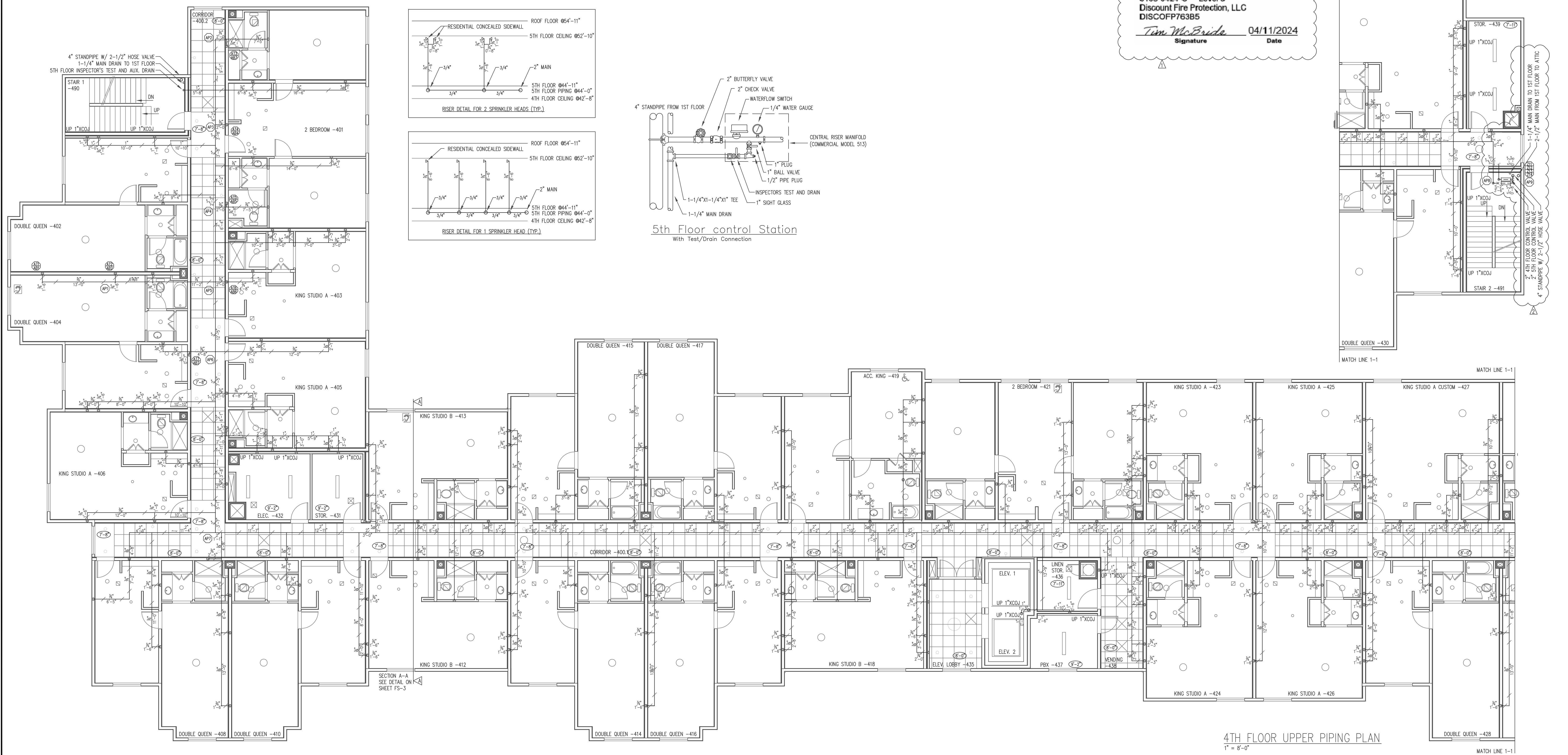
NOTE: CEILING ELEVATION TO BE 7'-11" AFF. UNLESS NOTED OTHERWISE.

NOTE: ALL RISER FROM LINE TO 5TH FLOOR RESIDENTIAL SIDEWALL SPRINKLER TO BE 3/4"



I HAVE REVIEWED THESE PLANS AND CERTIFY THAT THEY COMPLY WITH THE ADOPTED NFPA STANDARDS.
 DISCOUNT FIRE PROTECTION, LLC.
 4 RED BLUFF COURT
 MANSFIELD, TX, 76063
 817-821-1877
 SCR-G-2379798
 RME-SIGNATURE: Timothy McBride
 PRINTED NAME: Timothy McBride
 RME-G-0825 DATE:
 AS-BUILT SUBMITTAL OTHER

Expires DEC 31, 24 WASHINGTON STATE CERTIFICATE OF COMPETENCY
 Timothy P. McBride
 0168-0424-C Level 3
 Discount Fire Protection, LLC
 DISCOFP763B5
 Timothy P. McBride
 Signature
 04/11/2024
 Date



4TH FLOOR UPPER PIPING PLAN
 1" = 8'-0"

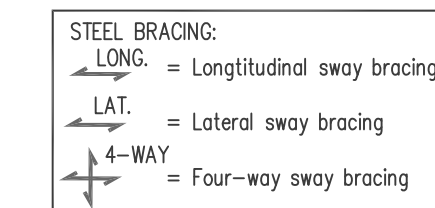
	Water Supply Information Flow Test STATIC PRESSURE 52 psi RESIDUAL PRESSURE 51 psi FLOW IN G.P.M. 754 gpm DATE OF TEST 1-26-24 TIME OF TEST 1:00 PM. TEST TAKEN BY Ted, Ed Fruitland Mutual Water Company HYDRANT LOCATION 3601 9th Street Southwest		Material Information Notes Pipe Sizes 1" to 2" Wheatland's MLT Pipe Sizes 3/4" and larger Wheatland's Schedule 10 Pipe Sizes 1" to 2" NFPA 13 Dry Pipe Sizes 1" to 2" Allied Lube XL Dry Pipe Sizes 2-1/2" and larger Allied Lube Schedule 10 Job Plan Notes TYPE OF CONSTRUCTION: Wood/Noncombustible OCCUPANCY CLASSIFICATION: Light Hazard/Hotel DESIGN APPROACH: 4 Most Demanding Area/Density		Design Criteria <table border="1"> <thead> <tr> <th>SYSTEM NAME</th> <th>5th Floor Rm. 502-504</th> <th>5th Floor Corridor</th> <th>4th Floor Rm. 402</th> <th>4th Floor Corridor</th> <th>2nd Floor Lodge</th> <th>1st Floor Remote</th> <th>1st Floor Laundry</th> <th>1st Floor Pool</th> </tr> </thead> <tbody> <tr> <td>SPRINKLER AREA</td> <td>14'x14' sq.ft. maximum</td> <td>14'x14' sq.ft. maximum</td> <td>18'x18' sq.ft. maximum</td> <td>18'x18' sq.ft. maximum</td> <td>162.5 sq.ft. maximum</td> <td>148 sq.ft. maximum</td> <td>130 sq.ft. maximum</td> <td>156 sq.ft. maximum</td> </tr> <tr> <td>HAZARD/DENSITY</td> <td>Light/0.10</td> <td>Light/0.10</td> <td>Light/0.10</td> <td>Light/0.10</td> <td>Light/0.10</td> <td>Ord./0.15</td> <td>Light/0.10</td> <td>Light/0.10</td> </tr> <tr> <td>DESIGN AREA</td> <td>4 Remote Sprinklers</td> <td>5 Remote Sprinklers</td> <td>4 Remote Sprinklers</td> <td>5 Remote Sprinklers</td> <td>1,013 sq.ft.</td> <td>950 sq.ft.</td> <td>950 sq.ft.</td> <td>900 sq.ft.</td> </tr> <tr> <td>SYSTEM PSI REQUIRED</td> <td>34.74 psi</td> <td>-42.99 psi</td> <td>6.82 psi</td> <td>-37.41 psi</td> <td>-21.41 psi</td> <td>58.73 psi</td> <td>-24.44 psi</td> <td>-49.02 psi</td> </tr> <tr> <td>SYSTEM GPM REQUIRED</td> <td>169.16 gpm</td> <td>166.49 gpm</td> <td>178.35 gpm</td> <td>186.99 gpm</td> <td>251.89 gpm</td> <td>186.28 gpm</td> <td>462.87 gpm</td> <td>224.60 gpm</td> </tr> <tr> <td>NO. 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HOMEWOOD SUITES

NOTE: ALL INTERSTITIAL SPACE TO BE FILLED WITH NON-COMBUSTIBLE INSULATION

NOTE: CEILING ELEVATION TO BE 7'-11" AFF. UNLESS NOTED OTHERWISE.

NOTE: ALL RISER FROM LINE TO 5TH FLOOR RESIDENTIAL SIDEWALL SPRINKLER TO BE 3/4"



NOTE:
 X = HANGER FOR CPVC PIPE
 Y = CPVC PIPE WITH DIAMETER AND LENGTH
 S-C = STEEL PIPE WITH DIAMETER AND LENGTH

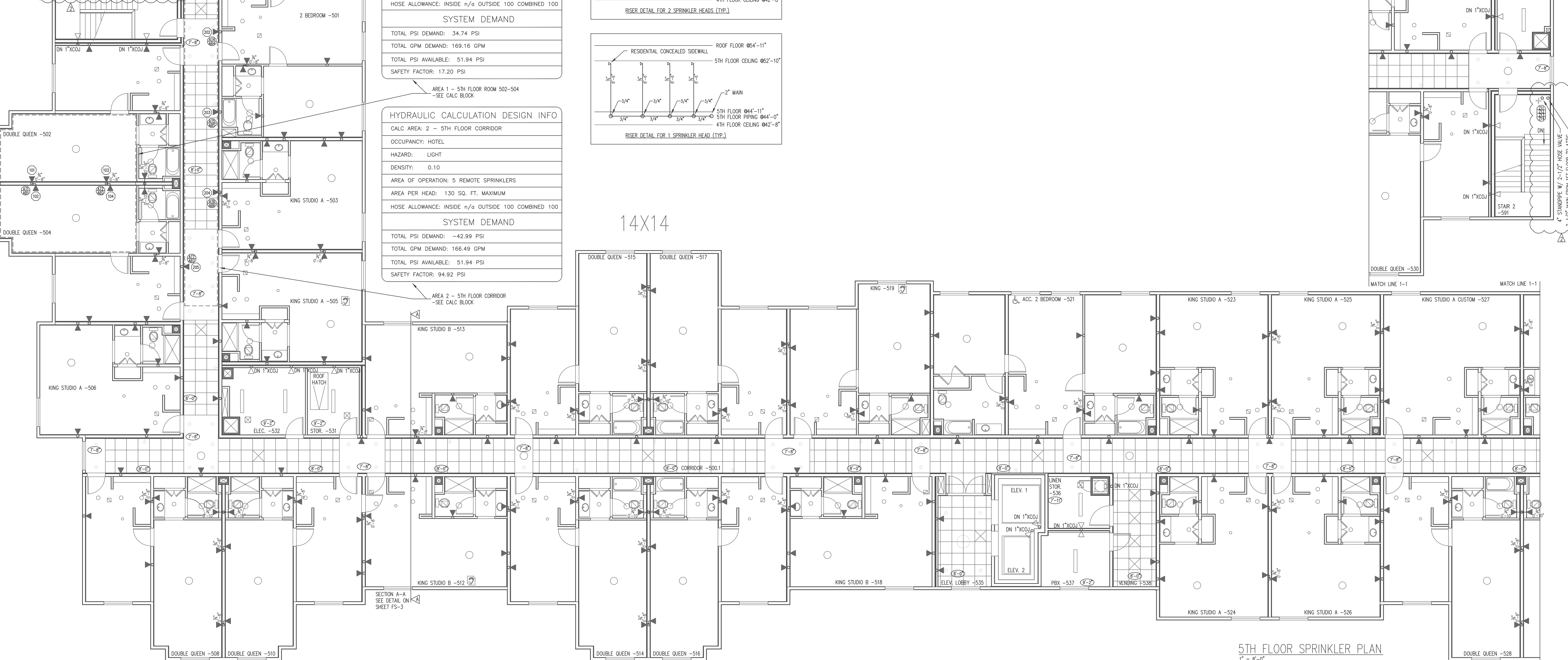
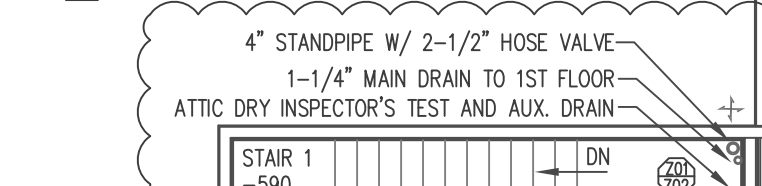
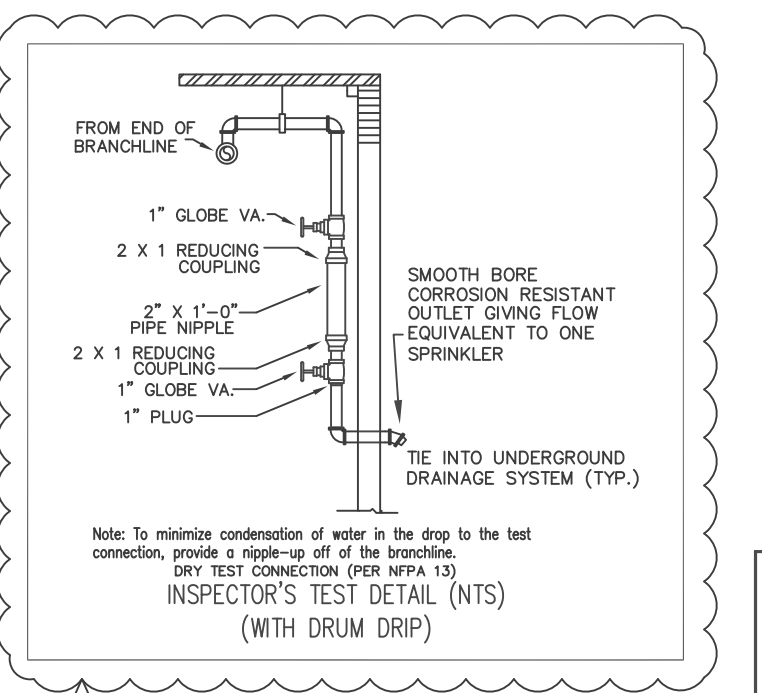
I HAVE REVIEWED THESE PLANS AND CERTIFY THAT THEY COMPLY WITH THE ADOPTED NFPA STANDARDS.

DISCOUNT FIRE PROTECTION, LLC.
 4 RED BLUFF COURT
 MANSFIELD, TX. 76063
 817-821-1877
 SCR-G-2379798

RME-SIGNATURE: Timothy McBride
 PRINTED RME NAME: Timothy McBride
 RME-G-0825
 DATE: _____

AS-BUILT SUBMITTAL OTHER

Expires DEC 31, 24
WASHINGTON STATE
CERTIFICATE OF COMPETENCY
FIRE SPRINKLER SYSTEMS
 Timothy P. McBride
 0168-0424-C Level 3
 Discount Fire Protection, LLC
 DISCOFP763B5
Tim McBride 04/11/2024
 Signature Date



HYDRAULIC CALCULATION DESIGN INFO

CALC AREA: 1 - 5TH FLOOR ROOM 502-504

OCCUPANCY: HOTEL

HAZARD: LIGHT

DENSITY: 0.10

AREA OF OPERATION: 4 REMOTE SPRINKLERS

AREA PER HEAD: 153 SQ. FT. MAXIMUM

HOSE ALLOWANCE: INSIDE n/a OUTSIDE 100 COMBINED 100

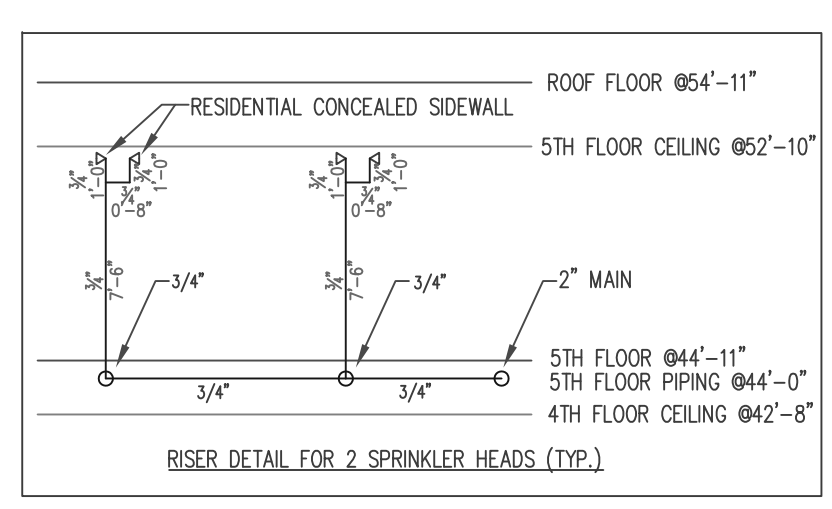
SYSTEM DEMAND

TOTAL PSI DEMAND: 34.74 PSI

TOTAL GPM DEMAND: 169.16 GPM

TOTAL PSI AVAILABLE: 51.94 PSI

SAFETY FACTOR: 17.20 PSI



HYDRAULIC CALCULATION DESIGN INFO

CALC AREA: 2 - 5TH FLOOR CORRIDOR

OCCUPANCY: HOTEL

HAZARD: LIGHT

DENSITY: 0.10

AREA OF OPERATION: 5 REMOTE SPRINKLERS

AREA PER HEAD: 130 SQ. FT. MAXIMUM

HOSE ALLOWANCE: INSIDE n/a OUTSIDE 100 COMBINED 100

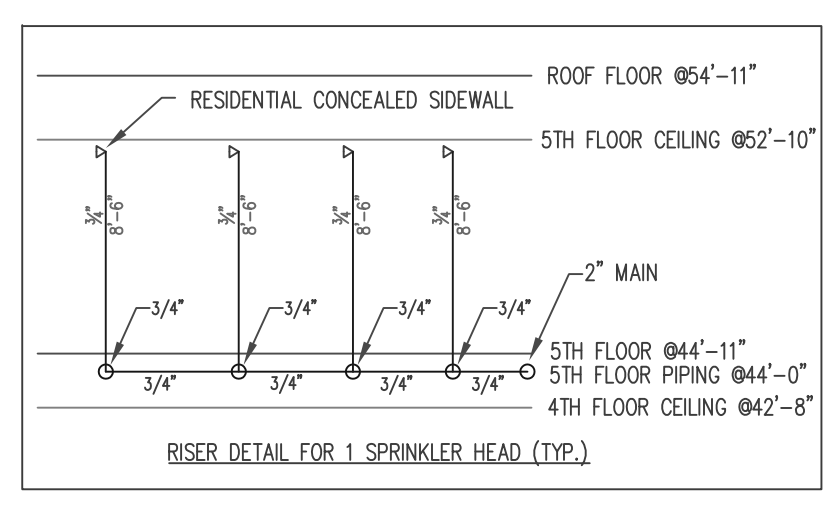
SYSTEM DEMAND

TOTAL PSI DEMAND: -42.99 PSI

TOTAL GPM DEMAND: 166.49 GPM

TOTAL PSI AVAILABLE: 51.94 PSI

SAFETY FACTOR: 94.92 PSI



<p>2 1 0 4 8</p> <p>SCALE 1/8"=1'-0"</p>	<p>Water Supply Information</p> <p>Flow Test</p> <p>STATIC PRESSURE 52 psi</p> <p>RESIDUAL PRESSURE 51 psi</p> <p>FLOW IN G.P.M. 754 gpm</p> <p>DATE OF TEST 1-26-24</p> <p>TIME OF TEST 1:00 PM.</p> <p>TEST TAKEN BY Ted, Ed Fruitland Mutual Water Company</p> <p>HYDRANT LOCATION 3601 9th Street Southwest</p>	<p>Material Information Notes</p> <p>Pipe Sizes 1" to 2" Wheatland's MLT Pipe Sizes 2-1/2" and larger, Wheatland's Schedule 10 Pipe Sizes 3/4" to 3": NFPA 13 Diemaster Dry Pipe Sizes 1" to 2" Allied Tube XL Dry Pipe Sizes 2-1/2" and larger, Allied Tube, Schedule 10</p> <p>Job Plan Notes</p> <p>TYPE OF CONSTRUCTION: Wood/Noncombustible OCCUPANCY CLASSIFICATION: Light Hazard/Hotel DESIGN APPROACH: 4 Most Demanding Area/Density</p>	<p>Design Criteria</p> <table border="1"> <thead> <tr> <th>SYSTEM NAME</th> <th>5th Floor Rm. 502-504</th> <th>5th Floor Corridor</th> <th>4th Floor Rm. 402</th> <th>4th Floor Corridor</th> <th>2nd Floor Lodge</th> <th>1st Floor Remote</th> <th>1st Floor laundry</th> <th>1st Floor Pool</th> </tr> </thead> <tbody> <tr> <td>SYSTEM NO.</td> <td>Area 1</td> <td>Area 2</td> <td>Area 3</td> <td>Area 4</td> <td>Area 5</td> <td>Area 6</td> <td>Area 7</td> <td>Area 8</td> </tr> <tr> <td>SPRINKLER AREA</td> <td>14'x14' sq.ft. maximum</td> <td>14'x14' sq.ft. maximum</td> <td>18'x18' sq.ft. maximum</td> <td>18'x18' sq.ft. maximum</td> <td>162.5 sq.ft. maximum</td> <td>148 sq.ft. maximum</td> <td>130 sq.ft. maximum</td> <td>156 sq.ft. maximum</td> </tr> <tr> <td>HAZARD/DENSITY</td> <td>Light/0.10</td> <td>Light/0.10</td> <td>Light/0.10</td> <td>Light/0.10</td> <td>Light/0.10</td> <td>Ord./0.15</td> <td>Light/0.10</td> <td>Light/0.10</td> </tr> <tr> <td>DESIGN AREA</td> <td>4 Remote Sprinklers</td> <td>5 Remote Sprinklers</td> <td>4 Remote Sprinklers</td> <td>5 Remote Sprinklers</td> <td>1,013 sq.ft.</td> <td>950 sq.ft.</td> <td>900 sq.ft.</td> <td>900 sq.ft.</td> </tr> <tr> <td>SYSTEM PSI REQUIRED</td> <td>34.74 psi</td> <td>-42.99 psi</td> <td>6.82 psi</td> <td>-37.41 psi</td> <td>-21.41 psi</td> <td>58.73 psi</td> <td>-24.44 psi</td> <td>-49.02 psi</td> </tr> <tr> <td>SYSTEM GPM REQUIRED</td> <td>169.16 gpm</td> <td>166.49 gpm</td> <td>178.35 gpm</td> <td>186.99 gpm</td> <td>251.89 gpm</td> <td>186.28 gpm</td> <td>462.87 gpm</td> <td>224.60 gpm</td> </tr> <tr> <td>NO. SPKR.</td> <td>4 heads</td> <td>5 heads</td> <td>4 heads</td> <td>5 heads</td> <td>9 heads</td> <td>9 heads</td> <td>11 heads</td> <td>7 heads</td> </tr> <tr> <td>ELEV. @ HIGHEST SPKR</td> <td>7'-5" AFF</td> <td>7'-5" AFF</td> <td>7'-11" AFF</td> <td>7'-11" AFF</td> <td>15'-0" AFF</td> <td>12'-2" AFF</td> <td>12'-2" AFF</td> <td>9'-10" AFF</td> </tr> <tr> <td>HOSE REQUIREMENT</td> <td>100 GPM</td> <td>100 GPM</td> <td>100 GPM</td> <td>100 GPM</td> <td>100 GPM</td> <td>100 GPM</td> <td>250 GPM</td> <td>100 GPM</td> </tr> <tr> <td>SAFETY FACTOR</td> <td>17.20 psi</td> <td>94.92 psi</td> <td>45.11 psi</td> <td>89.33 psi</td> <td>73.27 psi</td> <td>19.84 psi</td> <td>76.03 psi</td> <td>100.91 psi</td> </tr> </tbody> </table>	SYSTEM NAME	5th Floor Rm. 502-504	5th Floor Corridor	4th Floor Rm. 402	4th Floor Corridor	2nd Floor Lodge	1st Floor Remote	1st Floor laundry	1st Floor Pool	SYSTEM NO.	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	SPRINKLER AREA	14'x14' sq.ft. maximum	14'x14' sq.ft. maximum	18'x18' sq.ft. maximum	18'x18' sq.ft. maximum	162.5 sq.ft. maximum	148 sq.ft. maximum	130 sq.ft. maximum	156 sq.ft. maximum	HAZARD/DENSITY	Light/0.10	Light/0.10	Light/0.10	Light/0.10	Light/0.10	Ord./0.15	Light/0.10	Light/0.10	DESIGN AREA	4 Remote Sprinklers	5 Remote Sprinklers	4 Remote Sprinklers	5 Remote Sprinklers	1,013 sq.ft.	950 sq.ft.	900 sq.ft.	900 sq.ft.	SYSTEM PSI REQUIRED	34.74 psi	-42.99 psi	6.82 psi	-37.41 psi	-21.41 psi	58.73 psi	-24.44 psi	-49.02 psi	SYSTEM GPM REQUIRED	169.16 gpm	166.49 gpm	178.35 gpm	186.99 gpm	251.89 gpm	186.28 gpm	462.87 gpm	224.60 gpm	NO. 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Min. PSI	Min. GPM	Orifice	Temp.	Thread Size	Sprinkler Finish	Escutcheon	Escutcheon Finish	FS-4	FS-5	FS-6	FS-7	FS-9	FS-10	Quantity	Hds.	●	Tyco	LFI	Residential Concealed	4.9	12.0	17.0	7/16"	155°	1/2"	White	Concealed	White	115	28	10	10	0	0	0	0	163	○	Tyco	RPI	QR Concealed Pendant	5.6	N/A	N/A	1/2"	155°	1/2"	White	Concealed	White	22	0	0	0	0	0	0	0	22	⊗	Tyco	DS-1	Dry Pendant	5.6	N/A	N/A	1/2"	155°	1"	Brass	—	Brass	2	0	0	0	0	0	0	0	2	◀	Tyco	TY3254	Residential Conc-SideWall	4.2	9.6	13.0	7/16"	160°	1/2"	White	Concealed	White	0	0	0	0	202	0	202	0	202	◁	Tyco	TY-FBB	QR SideWall	5.6	N/A	N/A	1/2"	155°	1/2"	White	Recessed	White	5	2	3	0	14	0	24	0	24	○	Tyco	DS-1	Dry Sidewall	5.6	N/A	N/A	—	200°	1"	White	Semi-rec	White	2	0	0	0	0	0	0	0	2	○	Tyco	TY3151	Standard Upright	5.6	N/A	N/A	1/2"	200°	1/2"	Brass	—	—	0	0	0	0	0	0	0	51	51	<table border="1"> <thead> <tr> <th>NO.</th> <th>Date</th> <th>Revisions</th> <th>By</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4/12/24</td> <td>Added Stamps</td> <td>K.N.</td> </tr> <tr> <td>2</td> <td>6/4/24</td> <td>Added roof dry system</td> <td>K.N.</td> </tr> </tbody> </table>	NO.	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HOMEWOOD SUITES

STEEL BRACING:
 LONG = Longitudinal sway bracing
 LAT. = Lateral sway bracing
 4-WAY = Four-way sway bracing

NOTE:
 H = HANGER FOR CPVC PIPE
 X = HANGER FOR STEEL PIPE
 X' = CPVC PIPE WITH DIAMETER AND LENGTH
 S-X' = STEEL PIPE WITH DIAMETER AND LENGTH

I HAVE REVIEWED THESE PLANS AND CERTIFY THAT THEY COMPLY WITH THE ADOPTED NFPA STANDARDS.
 DISCOUNT FIRE PROTECTION, LLC.
 4 RED BLUFF COURT
 MANSFIELD, TX. 76063
 817-821-1877
 SCR-G-2379798
 RME-SIGNATURE: Timothy McBride
 PRINTED RME NAME: Timothy McBride
 RME-G-0825
 DATE:
 AS-BUILT SUBMITTAL OTHER

Expires DEC 31, 24 WASHINGTON STATE CERTIFICATE OF COMPETENCY FIRE SPRINKLER SYSTEMS
 Timothy P. McBride
 0168-0424-C Level 3
 Discount Fire Protection, LLC
 DISCOFP763B5
 Signature: *Timothy McBride* Date: 04/11/2024

HYDRAULIC CALCULATION DESIGN INFO	
CALC AREA:	10 - ATTIC
OCCUPANCY:	HOTEL
HAZARD:	LIGHT
DENSITY:	0.10
AREA OF OPERATION:	ENTIRE AREA
AREA PER HEAD:	100 SQ. FT. MAXIMUM
HOSE ALLOWANCE:	INSIDE n/a OUTSIDE 100 COMBINED 100
SYSTEM DEMAND	
TOTAL PSI DEMAND:	-5.86 PSI
TOTAL GPM DEMAND:	308.13 GPM
TOTAL PSI AVAILABLE:	51.81 PSI
SAFETY FACTOR:	57.67 PSI

HYDRAULIC CALCULATION DESIGN INFO	
CALC AREA:	9 - ATTIC
OCCUPANCY:	HOTEL
HAZARD:	LIGHT
DENSITY:	0.10
AREA OF OPERATION:	ENTIRE AREA
AREA PER HEAD:	100 SQ. FT. MAXIMUM
HOSE ALLOWANCE:	INSIDE n/a OUTSIDE 100 COMBINED 100
SYSTEM DEMAND	
TOTAL PSI DEMAND:	37.99 PSI
TOTAL GPM DEMAND:	278.94 GPM
TOTAL PSI AVAILABLE:	51.84 PSI
SAFETY FACTOR:	13.86 PSI

NOTE: DRY SYSTEM PIPING IN ATTIC SHALL BE PITCHED TOWARD RISER. MAINS SHALL BE PITCHED AT LEAST 1/4 INCH PER 10 FT. IN NON-REFRIGERATED AREA (PER NFPA 13 (2016) 8.16.2.3.1) AND MAINS SHALL BE PITCHED AT LEAST 1/2 INCH PER 10 FT., LINES SHALL BE PITCHED AT LEAST 1/2 INCH PER 10 FT. IN REFRIGERATED AREA (PER NFPA 13 (2016) 8.16.2.3.3).

NOTE: DRY SYSTEM CAPACITY IS 182 GAL. AS PER NFPA 13(2016) 7.2.3.4 THE 60-SECOND LIMIT DOES NOT APPLY TO DRY SYSTEMS WITH CAPACITIES NOT MORE THAN 500 GAL.

MATCH LINE 1-1

CONNECTED TO 2-1/2" MAIN THIS SHEET

MATCH LINE 1-1

CONNECTED TO 2-1/2" MAIN THIS SHEET

NOTE: DRY MAIN TO BE INSTALLED BETWEEN 5TH CEILING AND ROOF FLOOR. AND LOOP BRANCH TO BE INSTALLED INSIDE PARAPET

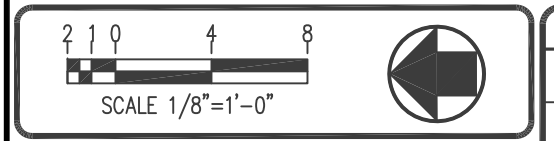
NOTE: DRY MAIN TO BE INSTALLED BETWEEN 5TH CEILING AND ROOF FLOOR. AND LOOP BRANCH TO BE INSTALLED INSIDE PARAPET

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SECTION A-A SEE DETAIL ON SHEET FS-3

ATTIC SPRINKLER PLAN
 1" = 8'-0"



NOTICE
 ALL DOCUMENTS, INCLUDING ORIGINAL DRAWINGS, SPECIFICATIONS, AND NOTES, ESTIMATES AND DATA, INCLUDING COMPUTER PROGRAMS FURNISHED TO THIS PROJECT ARE AND WILL REMAIN THE PROPERTY OF DISCOUNT FIRE PROTECTION, LLC. ANY REPRODUCTION OR DISTRIBUTION OF THESE DOCUMENTS WITHOUT THE WRITTEN PERMISSION OF DISCOUNT FIRE PROTECTION, LLC IS STRICTLY PROHIBITED. ANY REUSE, OR ADAPTATION OF THE INFORMATION CONTAINED HEREIN, WITHOUT THE WRITTEN PERMISSION OF DISCOUNT FIRE PROTECTION, LLC, IS STRICTLY PROHIBITED. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ANY AND ALL AGENCIES, AGENCIES, LOCAL, STATE, AND FEDERAL, AND THE CLIENT SHALL ALSO INDENTIFY AND HOLD ODP RESPONSIBLE FOR ANY AND ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES, RESULTING FROM ANY SUCH PERMITS.

IMPORTANT OWNER INFORMATION
 APPROVANCE OF THE LATEST EDITION OF NFPA 88 AS THE APPLICABLE STD. FOR THE INSPECTION, TESTING AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS. IF THE BUILDING OWNER HAS NOT RECEIVED A COPY OF THIS PARAGRAPH AND/OR IS NOT FAMILIAR WITH THE OPERATION AND MAINTENANCE OF THIS SYSTEM PLEASE CONTACT THE NEAREST OFFICE OF DISCOUNT FIRE PROTECTION, LLC.

Water Supply Information	
STATIC PRESSURE	52 psi
RESIDUAL PRESSURE	51 psi
FLOW IN G.P.M.	754 gpm
DATE OF TEST	1-26-24
TIME OF TEST	1:00 PM.
TEST TAKEN BY	Ted, Ed Fruitland Mutual Water Company
HYDRANT LOCATION	3601 9th Street Southwest

Material Information Notes
 Pipe Sizes 1" to 2",
 Wheatland's MLT
 Pipe Sizes 2-1/2" and larger,
 Wheatland's Schedule 10
 Pipe Sizes 3/4" to 3",
 NFPA 13
 Biocmaster
 Dry Pipe Sizes 1" to 2",
 Allied Tube XL
 Dry Pipe Sizes 2-1/2" and larger,
 Allied Tube, Schedule 10

Job Plan Notes
 Wood/Noncombustible
 OCCUPANCY CLASSIFICATION:
 Light Hazard/Hotel
 DESIGN APPROACH:
 4 Most Demanding Area/Density

SYSTEM NAME	Design Criteria							
	5th Floor Rm. 502-504	5th Floor Corridor	4th Floor Rm. 402	4th Floor Lodge	2nd Floor laundry	1st Floor Remote	1st Floor laundry	1st Floor Pool
SYSTEM NO.	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8
SPRINKLER AREA	14'x14' sq.ft. maximum	14'x14' sq.ft. maximum	18'x18' sq.ft. maximum	18'x18' sq.ft. maximum	162.5 sq.ft. maximum	148 sq.ft. maximum	130 sq.ft. maximum	156 sq.ft. maximum
HAZARD/DENSITY	Light/0.10	Light/0.10	Light/0.10	Light/0.10	Light/0.10	Ord./0.15	Light/0.10	Light/0.10
DESIGN AREA	4 Remote Sprinklers	5 Remote Sprinklers	4 Remote Sprinklers	5 Remote Sprinklers	1,013 sq.ft.	950 sq.ft.	950 sq.ft.	900 sq.ft.
SYSTEM PSI REQUIRED	34.74 psi	-42.99 psi	6.82 psi	-37.41 psi	-21.41 psi	58.73 psi	-24.44 psi	-49.02 psi
SYSTEM GPM REQUIRED	169.16 gpm	166.49 gpm	178.35 gpm	186.99 gpm	251.89 gpm	186.28 gpm	462.87 gpm	224.60 gpm
NO. SPKR.	4 heads	5 heads	4 heads	5 heads	9 heads	9 heads	11 heads	7 heads
ELEV. @ HIGHEST SPKR	7'-5" AFF	7'-5" AFF	7'-11" AFF	7'-11" AFF	15'-0" AFF	12'-2" AFF	12'-2" AFF	9'-10" AFF
HOSE REQUIREMENT	100 GPM	100 GPM	100 GPM	100 GPM	100 GPM	100 GPM	250 GPM	100 GPM
SAFETY FACTOR	17.20 psi	94.92 psi	45.11 psi	89.33 psi	73.27 psi	19.84 psi	76.03 psi	100.91 psi

Symbol	Make	Model	Style	K-Fac.	Min. PSI	Min. GPM	Orifice	Temp.	Thread Size	Sprinkler Finish	Escutcheon	Escutcheon Finish	TOTAL THIS PROJECT: 1,043 Sprinklers									
													FS-4	FS-5	FS-6	FS-7	FS-9	FS-10	For Project			
●	Tyco-LFI	TY2524	Residential Concealed	4.9	12.0	17.0	7/16"	155°	1/2"	White	Concealed	White	68	161	174	174	0	0	0	577		
●	Tyco	RPI TY3531	QR Concealed	5.6	N/A	N/A	1/2"	155°	1/2"	White	Concealed	White	22	0	0	0	0	0	22			
●	Tyco	DS-1 TY3255	Dry Pendant	5.6	N/A	N/A	1/2"	155°	1"	Brass	-	Brass	2	0	0	0	0	0	2			
●	Tyco-LFI	TY2524	Residential Conc-SideWall	4.2	9.6	13.0	7/16"	160°	1/2"	White	Concealed	White	0	0	0	0	202	0	202			
●	Tyco	TY-FRB TY3331	QR Sidewall	5.6	N/A	N/A	1/2"	155°	1/2"	White	Recessed	White	5	2	3	0	14	0	24			
●	Tyco	DS-1 TY3335	Dry Sidewall	5.6	N/A	N/A	-	200°	1"	White	Semi-rec	White	2	0	0	0	0	0	2			
●	Tyco	TY3151	Standard Upright	5.6	N/A	N/A	1/2"	200°	1/2"	Brass	-	-	0	0	0	0	0	51	51			

NO.	Date	Revisions	By
1	4/12/24	Added Stamps	K.N.
2	6/4/24	Added roof dry system	K.N.

DISCOUNT FIRE PROTECTION, LLC.
 4 Red Bluff Court
 Mansfield, Texas 76063
 Phone: (817) 821-1877

Licensed in the States of:
 TX Lic: SCR-G-2379798
 CA Lic: 1050892
 MD Lic: MSC-593 (Class I, III)

CO Lic: 21-S-08105
 OK Lic: A3419

Approved By: *Timothy McBride*
 Timothy McBride RME # G-0825
 Date:

PROJECT: HOMEWOOD SUITES
 3500 SOUTH MERIDIAN
 PUYALLUP, WA. 98373

CONTRACT WITH: THARALDSON HOSPITALITY
 4520 36TH AVENUE SOUTH
 FARGO, ND. 58104

SYSTEM NO: ATTIC SPRINKLER PLAN
 DATE: 2-15-2024

DRAWN BY: K. Norong
 ENGINEERING MANAGER: Timothy McBride
 LISTED BY: Timothy McBride

SCALE: 1/8"=1'-0"
 CITY: City of Puyallup
 SHEET NO. FS-10

SHT. 100F 10