

3216 S. GLEN AVENUE  
GLENWOOD SPRINGS, CO, 81601  
TENANT IMPROVEMENT

NRG FIRE CONSULTING, LLC  
7511 GREENWOOD AVENUE NORTH #600  
SEATTLE, WA 98103  
PHONE: 206.789.0165  
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DESIGNER OF RECORD: RICHARD G. ANDERSON III, CET, CFPS  
NICET #: 123390  
EXPIRATION DATE: SEPTEMBER 01, 2023

GLENWOOD SPRINGS FIRE DEPARTMENT  
101 W. 8TH STREET  
GLENWOOD SPRINGS, CO 81604  
PHONE: 970.384.6480  
[WWW.GLENWOODFIRE.COM/440/FIRE-PREVENTION](http://WWW.GLENWOODFIRE.COM/440/FIRE-PREVENTION)



Fire Pump Evaluation For Electric or Diesel Fire Pumps									
<b>Owner:</b>	<b>Pegasus Realty Corp.</b>				<b>Owner Phone #</b>	<b>(303) 721-1818</b>			
<b>Owner Address:</b>	<b>1385 E Arapahoe Rd, Suite 300, Centennial, CO 80122</b>								
<b>Property Being Evaluated:</b>	<b>Office Building 2832</b>								
<b>Property Address:</b>	<b>1216 S Glen Avenue, Denver, CO 81661</b>				<b>Job Number:</b>	<b>N/A</b>			
<b>Date of Work:</b>	<b>1-Oct-19</b>								
<b>Drawn by:</b>	<b>Hessman Cook, Colleen B.</b>								
<b>Pump #</b>	<b>1 of 1</b>	<b>Type:</b>	<b>Electric</b>			<b>Pump Type:</b>	<b>Centrifugal</b>		
<b>Serial #</b>	<b>06-1901536</b>		<b>Year:</b>			<b>Impeller Diameter:</b>	<b>13.375"</b>		
<b>Model #</b>	<b>APZ</b>		<b>Capacity:</b>			<b>Dish / Pipe Diam:</b>	<b>3"</b>		
<b>Rating:</b>	<b>100%</b>	<b>GPM @ 57 psi</b>	<b>57</b>	<b>psi</b>		<b>Pump Elevation:</b>	<b>0'</b>		
	<b>100%</b>	<b>GPM @ 62 psi</b>	<b>52</b>	<b>psi</b>		<b>Disch Gauge Dia:</b>	<b>1"</b>		
	<b>150%</b>	<b>GPM @ 62 psi</b>	<b>52</b>	<b>psi</b>		<b>Suction Gauge Elev:</b>	<b>0'</b>		
<b>B.H.P. at Capacity:</b>			<b>64.5</b>			<b>Pump RPM:</b>	<b>1770</b>		
<b>Motor Voltage:</b>	<b>at Positive Short</b>		<b>67</b>	<b>psi</b>		<b>Inlet Pipe:</b>	<b>Good</b>		
<b>Mainline Available Discharge Pressure:</b>			<b>67</b>	<b>psi</b>		<b>Outboard Bag:</b>	<b>Good</b>		
<b>Driver:</b>	<b>I.D #</b>	<b>0010B/P364T5</b>			<b>Run-time:</b>	<b>Hourspower:</b>			
	<b>Mfg</b>	<b>wago</b>				<b>60'</b>			
<b>Details of Cylinders:</b>	<b>Mfg</b>		<b>psi</b>		<b>N/A</b>	<b>Gallons: N/A</b>			
<b>Tank Location:</b>	<b>N/A</b>		<b>Fuel Tank Type:</b>						
<b>Electrical: Amperes</b>	<b>Volts:</b>		<b>40</b>		<b>S.F.:</b>	<b>Frame #</b>			
<b>Fire Pump Controller:</b>	<b>Fire Pump Pressures:</b>								
<b>Model #</b>	<b>281247</b>		<b>Start-Up:</b>	<b>60</b>		<b>psi</b>			
<b>Serial #</b>	<b>003154-K</b>		<b>Shut-Off:</b>	<b>N/A</b>		<b>psi</b>			
			<b>Run-Time:</b>	<b>15</b>		<b>Minutes</b>			
<b>Jockey Pump:</b>	<b>Serial #</b>	<b>06-105628-1</b>		<b>Horsepower:</b>	<b>1</b>		<b>RPM:</b>	<b>3450</b>	
	<b>Model #</b>	<b>TY1LBF</b>		<b>gpm @ 15 psi</b>	<b>3.2</b>		<b>gpm @ 1 RPM:</b>	<b>1.5</b>	
	<b>Mfg:</b>	<b>MTI Pumps</b>					<b>inch</b>		
<b>Jockey Pump Controller:</b>	<b>Jockey Pump Pressures:</b>								
<b>Serial #</b>			<b>Start:</b>	<b>40</b>		<b>psi</b>			
			<b>Shut-Off:</b>	<b>60</b>		<b>psi</b>			
<b>Relief Valve Pressures:</b>	<b>Pressure:</b>		<b>200</b>		<b>psi</b>	<b>Calculation:</b>		<b>1.75 PSI</b>	
<b>Attendees:</b>	<b>Hessman Cook, Colleen B.</b>								

Use The Prevalence & Specification as A Guide Only As A Special Hazard Warning  
[www.excelfire.com](http://www.excelfire.com)

1. CONTRACTOR MUST VISIT THE BUILDING SITE TO DETERMINE THE FULL EXTENT OF THE EXISTING FIRE PROTECTION WORK AND EXISTING CONDITIONS, BECOME TOTALLY FAMILIAR WITH ALL DISCONNECTIONS, REMOVALS, RELOCATIONS AND/OR RECONNECTIONS OF EXISTING FIRE PROTECTION EQUIPMENT REQUIRED, AND CONDITIONS IN THE PROPOSAL FOR THIS PROJECT. NO EXTRA COMPENSATION WILL BE PAID FOR LACK OF SUCH DETERMINATION, FAMILIARIZATION, AND/OR ALLOWANCE.
2. THE INFORMATION CONCERNING THE EXISTING FIRE PROTECTION CONTAINED ON THESE DRAWINGS IS PRESUMED TO BE CORRECT. IN ORDER TO AVOID ANY NO WARRANTY TO ACCURACY, VISIT THE SITE TO VERIFY EXACTLY HOW THE EXISTING CONDITIONS WILL AFFECT THE COMPLETION OF THE WORK REQUIRED FOR THIS PROJECT, AND INCLUDE THE CORRESPONDING COSTS IN THE PROPOSAL.
3. CONSULT THE GENERAL CONDITIONS AND SUPPLEMENTARY CONDITIONS, AND ALL OTHER SECTIONS OF THE DRAWINGS AND SPECIFICATIONS, IN DETAIL FOR INSTRUCTIONS PERTAINING TO THIS WORK.
4. WITH THE SUBMISSION OF THIS PROPOSAL, GIVE WRITTEN NOTICE TO THE OWNER OF ANY MATERIALS OR APPARATUS BELIEVED INADEQUATE OR UNSUITABLE, BELIEVED IN VIOLATION OF LAWS, ORDINANCES, AND/OR RULES AND OF ANY NECESSARY ITEMS OF WORK OMITTED BY THE PRESENCE OF SUCH MATERIALS OR APPARATUS. IN THE ABSENCE OF OBTAINING SUCH MATERIALS OR APPARATUS, BE RESPONSIBLE FOR THE APPROVED SATISFACTORY FUNCTIONING OF THE ENTIRE FIRE PROTECTION SYSTEM, WITHOUT EXTRA COMPENSATION.
5. BEFORE SUBMITTING THE PROPOSAL, ASK THE OWNER FOR A DECISION CONCERNING ANY AND ALL PLACES WHERE DRAWINGS, SPECIFICATIONS, STANDARDS, AND/OR CODES ARE NOT CLEAR OR THAT ARE NOT CLEARLY UNDERSTOOD. IN THE ABSENCE OF OBTAINING SUCH A DECISION, ABIDE BY THE DECISION OF THE OWNER, IF THE NECESSITY FOR A DECISION ARISES AFTER THE SIGNING OF THE CONTRACT.
6. COORDINATE THE LOCATIONS OF ALL FIRE PROTECTION WORK WITH THE WORK OF OTHER TRADES.
7. NOTE CAREFULLY THAT THE FIRE PROTECTION DRAWINGS ARE INTENDED TO INDICATE, ONLY DIAGRAMMATICALLY, THE EXTENT AND THE GENERAL CHARACTER AND LOCATIONS OF THE WORK REQUIRED. THE WORK IS NOT TO BE EXACTLY AS INDICATED, BUT HAVING MINOR DETAILS OMITTED OR NOT SHOWN, COMPLETE AS REQUIRED TO PERFORM THE FUNCTION INTENDED. FOLLOW THE ARCHITECTURAL AND/OR CONSTRUCTION SET OF DRAWINGS AND SPECIFICATIONS FOR BUILDINGS TO BE FIT THE WORK OF THE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS THEREIN.
8. REMOVE ALL DEBRIS TO AN APPROVED DUMPING SITE AND CLEAN ALL FIRE PROTECTION WORK PRIOR THE PROJECT COMPLETION.
9. PERFORM ALL WORK ACCORDING TO THE PROJECT PHASING SCHEDULE FOR THIS PROJECT. PROVIDE ALL NECESSARY FIRE PROTECTION WORK, TEMPORARY AND/OR OTHERWISE, AND USE WHATEVER MEANS NECESSARY, TO CONFORM TO THE REQUIRED CONSTRUCTION PHASE OF THIS PROJECT.
10. CONTRACTOR TO BE RESPONSIBLE FOR RESETTING OR REPLACING ITEMS DAMAGED DURING CONSTRUCTION.
11. CONTRACTOR IS TO PATCH ALL HOLES TO MATCH ADJACENT SURFACES LEFT UNUSED AFTER EXISTING SPRINKLER PIPING OR EQUIPMENT TO BE REMOVED IS VACATED FROM THESE HOLES.
12. CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING AND MAINTAINING FIRE DEPARTMENT ACCESS ROADS THROUGHOUT THE PROJECT.
13. ALL SYSTEMS TO BE LEFT IN SERVICE PRIOR TO THE END OF ANY WORK DAY.

1. CONTRACTOR MUST VISIT THE BUILDING SITE TO DETERMINE THE FULL EXTENT OF THE EXISTING FIRE PROTECTION WORK AND EXISTING CONDITIONS, BECOME TOTALLY FAMILIAR WITH THE DISCONNECTIONS, REMOVALS, RELOCATIONS AND/OR RECONNECTIONS OF EXISTING FIRE PROTECTION EQUIPMENT, AND CONDITIONS IN THE PROPOSAL FOR THIS PROJECT. NO EXTRA COMPENSATION WILL BE PAID FOR LACK OF SUCH DETERMINATION, FAMILIARIZATION, AND/OR ALLOWANCE.
2. THE INFORMATION CONCERNING THE EXISTING FIRE PROTECTION CONTAINED ON THESE DRAWINGS IS PRESENTED HERE AS A GENERAL GUIDE ONLY, WITH NO GUARANTEE AS TO ACCURACY. VISIT THE SITE TO DETERMINE THE EXISTING CONDITIONS WHICH WILL AFFECT THE COMPLETION OF THE WORK REQUIRED FOR THIS PROJECT, AND INCLUDE THE CORRESPONDING COSTS IN THE PROPOSAL.
3. CONSULT THE GENERAL CONDITIONS AND SUPPLEMENTARY CONDITIONS, AND ALL OTHER SECTIONS OF THE DRAWINGS AND SPECIFICATIONS, IN DETAIL FOR INSTRUCTIONS PERTAINING TO THIS WORK.
4. WITH THE SUBMISSION OF THIS PROPOSAL, GIVE WRITTEN NOTICE TO THE OWNER OF ANY VIOLATIONS OR APPARENTLY BELIEVED INADEQUATE OR UNSUITABLE, BELIEVED IN VIOLATION OF LAWS, ORDINANCES, AND/OR RULES AND OF ANY NECESSARY ITEMS OF WORK OMITTED IN THE ABSENCE OF SUCH WRITTEN NOTICE. PROVIDE ALL SUCH MATERIALS AND EQUIPMENT, AND BE RESPONSIBLE FOR THE PROTECTION AND PROPER FUNCTIONING OF THE ENTIRE FIRE PROTECTION SYSTEM, WITHOUT EXTRA COMPENSATION.
5. BEFORE SUBMITTING THE PROPOSAL, ASK THE OWNER FOR A DECISION CONCERNING ANY AND ALL PLACES WHERE DRAWINGS, SPECIFICATIONS, STANDARDS, AND/OR CODES CONFLICT, OR THAT ARE NOT CLEARLY UNDERSTOOD, IN THE ABSENCE OF OBTAINING SUCH A DECISION, ABIDE BY THE DECISION OF THE OWNER, IF THE NECESSITY FOR A DECISION ARISES AFTER THE SIGNING OF THE CONTRACT.
6. COORDINATE THE LOCATIONS OF ALL FIRE PROTECTION WORK WITH THE WORK OF OTHER TRADES.
7. UNLESS INDICATED OTHERWISE, DISCONNECT AND REMOVE ALL EXISTING FIRE PROTECTION COMPONENTS NOT INTENDED TO BE REUSED.
8. NOTE CAREFULLY THAT THE FIRE PROTECTION DRAWINGS ARE INTENDED TO INDICATE THE GENERAL CHARACTER AND LOCATIONS OF THE WORK INCLUDED IN THE CONTRACTOR TO PROVIDE ALL WORK OBVIOUSLY INTENDED AND COMPLETE AS REQUIRED TO PERFORM THE FUNCTIONS INTENDED. FOLLOW THE ARCHITECTURAL AND/OR CONSTRUCTION SET OF DRAWINGS AND SPECIFICATIONS FOR BUILDING DETAILS AND FIT THE WORK OF THE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS THERETO.
9. REMOVE ALL DEMOLITION MATERIALS AND DEBRIS TO AN APPROVED DUMPING SITE AND CLEAN ALL FIRE PROTECTION WORK PRIOR THE PROJECT COMPLETION.
10. PERFORM ALL WORK ACCORDING TO THE PROJECT PHASING SCHEDULE FOR THIS PROJECT. PROVIDE ALL NECESSARY FIRE PROTECTION WORK, TEMPORARY AND/OR OTHERWISE, AND USE WHATEVER MEANS NECESSARY, TO CONFORM TO THE REQUIRED CONSTRUCTION PHASE OF THIS PROJECT.
11. CONTRACTOR TO BE RESPONSIBLE FOR REPAIRING OR REPLACING ITEMS DAMAGED DURING DEMOLITION AND CONSTRUCTION.
12. CONTRACTOR IS TO PATCH ALL HOLES TO MATCH ADJACENT SURFACES LEFT UNUSED AFTER EXISTING SPRINKLER PIPING OR EQUIPMENT TO BE REMOVED IS VACATED FROM THESE HOLES.
13. CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING AND MAINTAINING FIRE DEPARTMENT ACCESS ROADS THROUGHOUT THE PROJECT.
14. SPRINKLER SYSTEMS NOT ASSOCIATED WITH THE DEMOLITION SHALL BE LEFT IN SERVICE.
15. ALL SYSTEMS TO BE LEFT IN SERVICE PRIOR TO THE END OF EACH WORKDAY.


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1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST ACCEPTED EDITIONS OF NFPA-13 AND THE INTERNATIONAL FIRE CODE, INCLUDING ALL ASSOCIATED APPENDICES.
2. THE ELECTRONIC FILE SET OF THE APPROVED ENGINEERED CONSTRUCTION DOCUMENTS IS AVAILABLE TO THE INSTALLING FIRE PROTECTION CONTRACTOR AT NO COST. THIS SET IS MADE SOLELY AVAILABLE FOR THE FABRICATION PORTION OF THE PROJECT. CONTACT NRG FIRE CONSULTING IN WRITING FOR THE PROJECT REQUEST. THE OWNER PROVIDES PROOF THAT PROJECT IS UNDER CONTRACT FOR INSTALLATION. THE DETAILS, DRAWINGS AND OTHER DATA INCLUDED IN THE CONSTRUCTION SET OF DOCUMENTS ARE FOR INFORMATION PURPOSES ONLY AND ARE SPECIFIC TO THIS PROJECT. ALL DRAWING CONCEPTS, DETAIL INFORMATION AND DATA CONTAINED HEREIN SHALL REMAIN THE SOLE PROPERTY OF NRG FIRE CONSULTING AND SHALL NOT BE UTILIZED FOR ANY OTHER PROJECT OR PURPOSE WITHOUT THE EXPRESSED WRITTEN CONSENT OF NRG FIRE CONSULTING.
3. THE INTENT OF THIS SET OF ENGINEERED CONSTRUCTION DOCUMENTS IS TO MEET THE LOCAL AND STATE OF WASHINGTON FIRE PROTECTION REQUIREMENTS AND ALSO MEET THE AUTOMATIC FIRE SPRINKLER SYSTEM. THE INSTALLING CONTRACTOR SHALL SUBMIT 'PRODUCT DATA' SUBMITTALS AS REQUIRED IN THE PROJECT MANUAL FOR THE INSTALLATION RECORD. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND OBTAINING ALL PERMITS ASSOCIATED WITH THIS SET OF DOCUMENTS, INCLUDING ARIZONA STATE FIRE MARSHAL APPROVAL FOR EDUCATIONAL OR INSTITUTIONAL FACILITIES.
4. ALL WIRING OF ELECTRIC INITIATION DEVICES (HORN-STROBES, WATER SUPERVISORY AND TAMPER DEVICES) SHALL BE BY THE ELECTRICAL AND/OR ALARM CONTRACTOR.
5. THE PIPING HEREIN HAS BEEN DESIGNED TO MEET UNDERWRITERS LABORATORIES (U.L.) CORROSION RESISTANCE RATING (CRR) MINIMUM OF 1.00. REFER TO PIPING PLANS, HYDRAULIC CALCULATIONS AND THE CONSTRUCTION SPECIFICATIONS FOR PIPING MATERIALS. THE MINIMUM CRR ASSOCIATED WITH THIS SPECIFIC PROJECT, THE UTILIZATION OF A CRR LESS THAN 1.00 IS NOT ACCEPTABLE UNDER ANY CIRCUMSTANCES. THE USE OF SUCH PIPING SUBJECTS THE CONTRACTOR TO POTENTIAL REMOVAL AND REPLACEMENT OF ALL PIPING AT HISHER COST.
6. A MINIMUM 10% SAFETY FACTOR HAS BEEN INCLUDED IN THE WATER SUPPLY FOR THIS PROJECT. ADDITIONAL SAFETY FACTORS REQUIRED BY LOCAL AHJ HAVE ALSO BEEN IMPLEMENTED. NRG FIRE CONSULTING IS NOT RESPONSIBLE FOR ADDITIONAL CHANGES IN WATER SUPPLY (GPM OR PRESSURE) THAT MAY ADVERSELY AFFECT THIS AUTOMATIC FIRE SPRINKLER SYSTEM IN THE FUTURE.
7. THE FIRE PROTECTION CONTRACTOR IS FULLY RESPONSIBLE FOR THE FIELD FIT OF ALL SPRINKLERS AND THE PIPING. THE ACCURACY OF SCALED CONSTRUCTION DOCUMENTS IS NOT ASCERTAINABLE. ALL POSSIBLE ATTEMPTS HAVE BEEN MADE TO INCLUDE SLOPED PIPE LENGTHS AND TO MINIMIZE VARIATIONS. THEREFORE, THE FP CONTRACTOR IS RESPONSIBLE FOR THE ACCURACY OF FIELD CUT AND FABRICATED PIPING.
8. THE FP CONTRACTOR IS RESPONSIBLE FOR GENERAL WORKMANSHIP: DIMENSIONING, COORDINATION WITH OTHER TRADES AND THE ACCEPTANCE OF THE FIELD INSPECTIONS. THE COORDINATION OF FIELD INSTALLED PIPING AND SPRINKLERS TO STRUCTURAL COMPONENTS, DUCTWORK, EQUIPMENT, CEILING, LIGHTS, ETC., IS THE RESPONSIBILITY OF THIS LICENSED CONTRACTOR.
9. FIELD VERIFY ALL CONDITIONS PRIOR TO THE INSTALLATION OF ANY PIPING. FIELD ADJUSTMENTS MAY BE MADE TO THESE DOCUMENTS AS REQUIRED FOR FIELD ACCEPTANCE BY THE AHJ.
10. THE FIRE PROTECTION CONTRACTOR SHALL VERIFY THE SPRINKLER SPACING TO THE STRUCTURAL MEMBERS, ROOF DECK AND ALL OBSTRUCTIONS. PROVIDE ADDITIONAL, OR RESPACE, SPRINKLERS WHERE REQUIRED TO AVOID SUCH UNFORESEEN OBSTRUCTIONS TO SPRINKLER DISCHARGE PATTERNS.
11. CORRECT SPRINKLER LOCATIONS AND/OR QUANTITIES ARE THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR. COORDINATION OF SPRINKLER LOCATIONS WITH ALL OTHER TRADES, INCLUDING DRAWINGS, CONTRACTOR SHALL PLACE IN THEIR BID AS A SEPARATE LINE ITEM EXTRA QUANTITY OF SPRINKLERS. COST OF EXTRA SPRINKLERS SHALL BE ACCOUNTED FOR AT TIME OF BID. CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF EXTRA SPRINKLERS AFTER BID APPROVAL, UNLESS OWNER CHANGES INDICATED OTHERWISE.
12. CORES THROUGH FLOORS OR CEILINGS, PACK WITH SEALANT COMMENSURATE WITH THE WALL CONSTRUCTION AND APPROVAL OF ALL AUTHORITIES HAVING JURISDICTION.
13. BACKFLOW DEVICE IS EXISTING, BUT SHALL BE TESTED AND APPROVED BY A CERTIFIED TECHNICIAN LICENSED TO PERFORM SUCH WORK IN THIS PARTICULAR MUNICIPALITY.
14. THIS FP CONTRACTOR SHALL PROVIDE THE OWNER WITH A COPY OF NFPA-25 AND A DETAILED DESCRIPTION OF THE MAINTENANCE REQUIRED FOR THIS PROJECT. SUCH A MAINTENANCE SUMMARY SHALL BE PROVIDED, AS IT WOULD APPEAR IN AN INDUSTRY STANDARD MAINTENANCE CONTRACT. IN ADDITION, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH RECORD DRAWINGS AND ASSOCIATED EQUIPMENT SUBMITTALS SHALL BE PROVIDED TO THE OWNER.
15. THIS FP CONTRACTOR SHALL INSTALL A SYSTEM DESIGN PLACARD FOR EACH REMOTE AREA OF OPERATION AS INDICATED ON THE APPROVED CONSTRUCTION DOCUMENTS. SYSTEM DEMAND AT THE BASE OF THE RISER IN PSI AND GPM SHALL BE PROVIDED WITH THE AREA OF OPERATION. SYSTEM FOOTCAGE AND NUMBER OF OPERATING SPRINKLERS. EACH SYSTEM PLACARD SHALL BE PERMANENTLY EMBOSSED SUCH THAT DATA MAY BE AVAILABLE FOR FUTURE USE. THE UTILIZATION OF PERMANENT MARKING PENS IS NOT APPROPRIATE OR ACCEPTABLE.
16. THE SPARE SPRINKLER CABINET IS EXISTING, IN AN APPROVED LOCATION. F.P. CONTRACTOR SHALL VERIFY THAT ALL REQUIRED SPARE SPRINKLERS AND TWO (2) SETS OF SPRINKLER WRENCHES FOR EACH SPRINKLER TYPE AS REQUIRED.
17. THIS FP CONTRACTOR SHALL BE LICENSED TO PERFORM THIS PARTICULAR TYPE OF WORK WITH THE STATE OF ARIZONA FIRE PROTECTORS AND WITH LOCAL AND STATE AUTHORITIES HAVING JURISDICTION. IN ADDITION, CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH ALL PLAN REVIEW AND AHJ FIELD INSPECTIONS AS NECESSARY FOR A COMPLETELY APPROVED WORKING SYSTEM.
18. WHERE REQUIRED, THIS AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE MONITORED BY A UL LISTED CENTRAL STATION SYSTEM. ALL SYSTEMS OVER 100 SPRINKLERS SHALL BE MONITORED FOR TAMPER, TROUBLE AND FLOW.
19. ALL CONTROL VALVES SHALL BE CHAIN-LOCKED AND SECURE INCLUDING MAIN DRAIN ANGLE VALVES. ALL EXTERIOR FIRE RISERS SHALL BE LOCATED IN A SECURED AREA TO PREVENT DAMAGE TO VANDALISM.
20. COMBUSTIBLE CONTENTS SHALL NOT BE MOVED INTO THE BUILDING WITHOUT THE APPROVAL OF THE AUTHORITIES HAVING JURISDICTION. IN ADDITION, THIS FP CONTRACTOR SHALL ENSURE THAT TEMPORARY INTERIOR FIRE PROTECTION IS IN PLACE PER AUTHORITY HAVING JURISDICTION. THIS INCLUDES PROVISIONS FOR TEMPORARY FIRE DEPARTMENT WATER SUPPLIES, HOSE CONNECTIONS, ETC.
21. THE GENERAL CONTRACTOR SHALL PROVIDE A FIRE DEPARTMENT LOCK BOX FOR ALL NEW CONSTRUCTION AS DELINEATED ON THE ARCHITECTURAL DOCUMENTS. DEVICES SHALL BE SIMILAR OR EQUIVALENT TO KNOX MANUFACTURING.
22. WHERE SCOPE INTERSECTS EXISTING STRUCTURAL CONDITIONS:
  - EXISTING PRIMARY STEEL UTILIZES WITH COGNITIVE FIRE PROTECTANT SPRAY - 2 HOUR
  - EXISTING SECONDARY STEEL UTILIZES CEMENTITIOUS FIREPROOFING SPRAY - 1 HOUR
  - RETAIN EXISTING RATING AT ALL STRUCTURAL AND DECKING. COORDINATE WORK WITH SHELL TEAM

- **LIGHT HAZARD (VESTIBULES, HALLS, RESTROOMS, OFFICES, COMPUTER LABS, TELECOMMUNICATION ROOMS)**
  - 10/1500, 225 SQUARE FEET MAX SPACING, 50 GPM INSIDE HOSE PROVISION AND 50 OUTSIDE HOSE PROVISION (TOTAL OF 100 GPM HOSE PROVISION), LIGHT HAZARD, PER 2016 EDITION NFPA 13, SECTION 5.3.1 WITH TABLE 8.6.2.2 (1A).
  - \*\* IN COMBUSTIBLE CONCEALED SPACES ABOVE CEILINGS WITH STRUCTURAL MEMBERS FURTHER THAN 3 FT ON CENTER, A MAXIMUM SPACING OF 168 SQUARE FEET SHALL APPLY. CONTRACTOR SHALL VERIFY CONDITIONS AND SPACING REQUIREMENTS PER NFPA 13 2016 EDITION, TABLE 10.4.2.4 (1A).
- **ORDINARY HAZARD GROUP 1 (ELECTRICAL ROOMS, MECHANICAL ROOMS, JANITOR'S CLOSET, STORAGE ROOMS)**
  - 15/1500, 130 SQUARE FEET MAX SPACING, 150 GPM INSIDE HOSE PROVISION WITH 100 GPM HOSE PROVISION FOR SPRINKLER SYSTEMS WITH INTERIOR HOSE VALVES (FOR A TOTAL OF 250 GPM HOSE PROVISION) TO PROTECT ORDINARY GROUP 1, PER NFPA 13 2016 EDITION, SECTION 5.3.1 AND FIGURE 11.2.3.1 (1) WITH TABLE 8.6.2.2 (1B). CONTRACTOR SHALL VERIFY CORRECT SECTIONS PER CURRENTLY ADOPTED STANDARD AS REQUIRED BY AHJ.
- **ORDINARY HAZARD GROUP 2 (MAIN RETAIL AREA)**
  - 20/1500, 130 SQUARE FEET MAX SPACING, 100 GPM INSIDE HOSE PROVISION AND 150 OUTSIDE HOSE PROVISION (TOTAL OF 250 GPM HOSE PROVISION) TO PROTECT ORDINARY GROUP II, PER NFPA 13 2016 EDITION, SECTION 5.3.2 AND FIGURE 11.2.3.1 WITH TABLE 8.6.2.2 (1B).
- **RSPU STORAGE & SHIPPING/RECEIVING AREA w/ CEILING:**
  - 302500, 1000 SQUARE FEET MAX SPACING, 100 GPM INSIDE HOSE PROVISION AND 400 OUTSIDE HOSE PROVISION (TOTAL OF 500 GPM HOSE PROVISION) TO PROTECT NON-EXPANDED, STABLE, CARTONED PLASTIC COMMODITIES PER 2016 EDITION OF NFPA 13, FIGURE 15.2.2 AND TABLE 15.2.6 (1A) WITH COLUMN C UPTO 12 FT MAX VERTICAL HEIGHT WITH A MAXIMUM 15-FT CEILING HEIGHT.

CLIENT STORE NUMBER:  
**#235**

CLIENT INFORMATION:



ARCHITECT INFORMATION:

**CALLISONRTKL**

NRG F  
CONSULT

7511 Greenwood Avenue  
Seattle, WA 98103  
(206) 789-0165  
[nrgfireconsulting.com](http://nrgfireconsulting.com)

PROJECT INFORMATION:

## ENWOOD SPRINGS

SIGNATURE/SEAL:

PAYING ISSUANCE LOG:

REV	DATE	DESCRIPTION
	09.24.21	PA REVIEW
	10.01.21	PO REVIEW

10.20.21	OWNER RE
11.05.21	PERMIT SE
11.08.21	BID SET

01.14.22	CONSTRUCT
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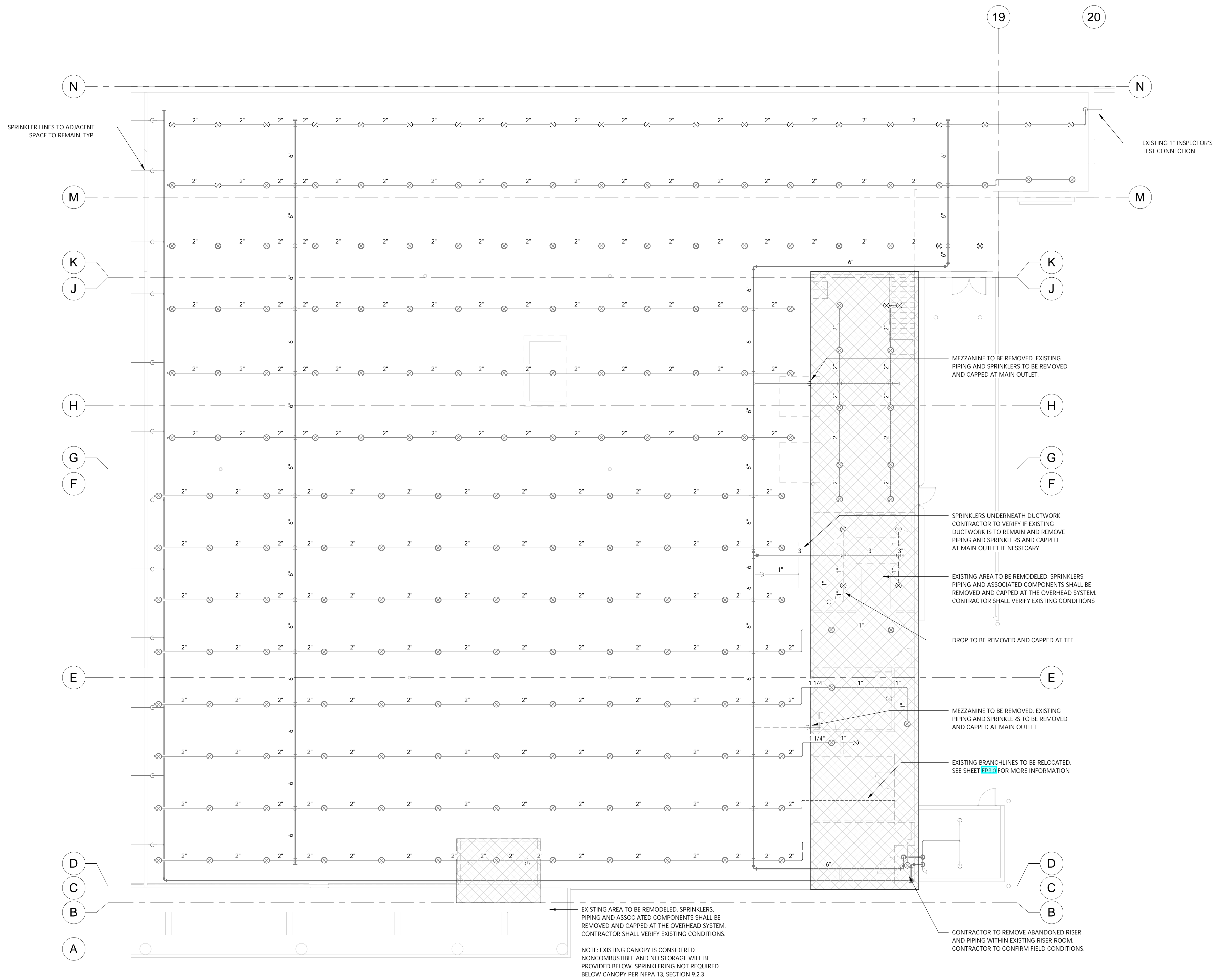
TEST TITLE:

**FIRE PROTECTION**  
**SHEET AND NO.**

SHEET NUMBER: 11

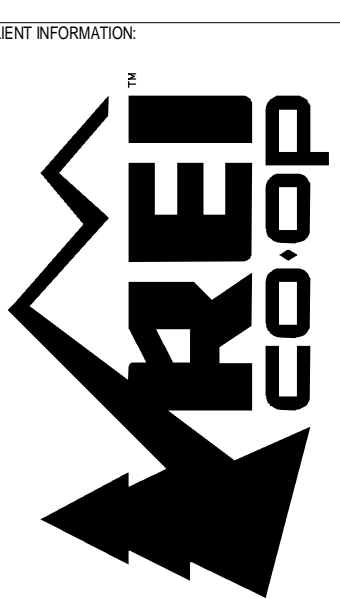
FP1.0





1 FIRE PROTECTION DEMOLITION PLAN  
1/8" = 1'-0"

CLIENT STORE NUMBER  
**#235**



ARCHITECT INFORMATION  
**CALLISONRTKL**  
CallisonRTKL Inc.  
U.S. Bank Centre  
1700 S. Main Street, Suite 200  
Seattle, WA 98101  
206-461-1000  
006-132964.81

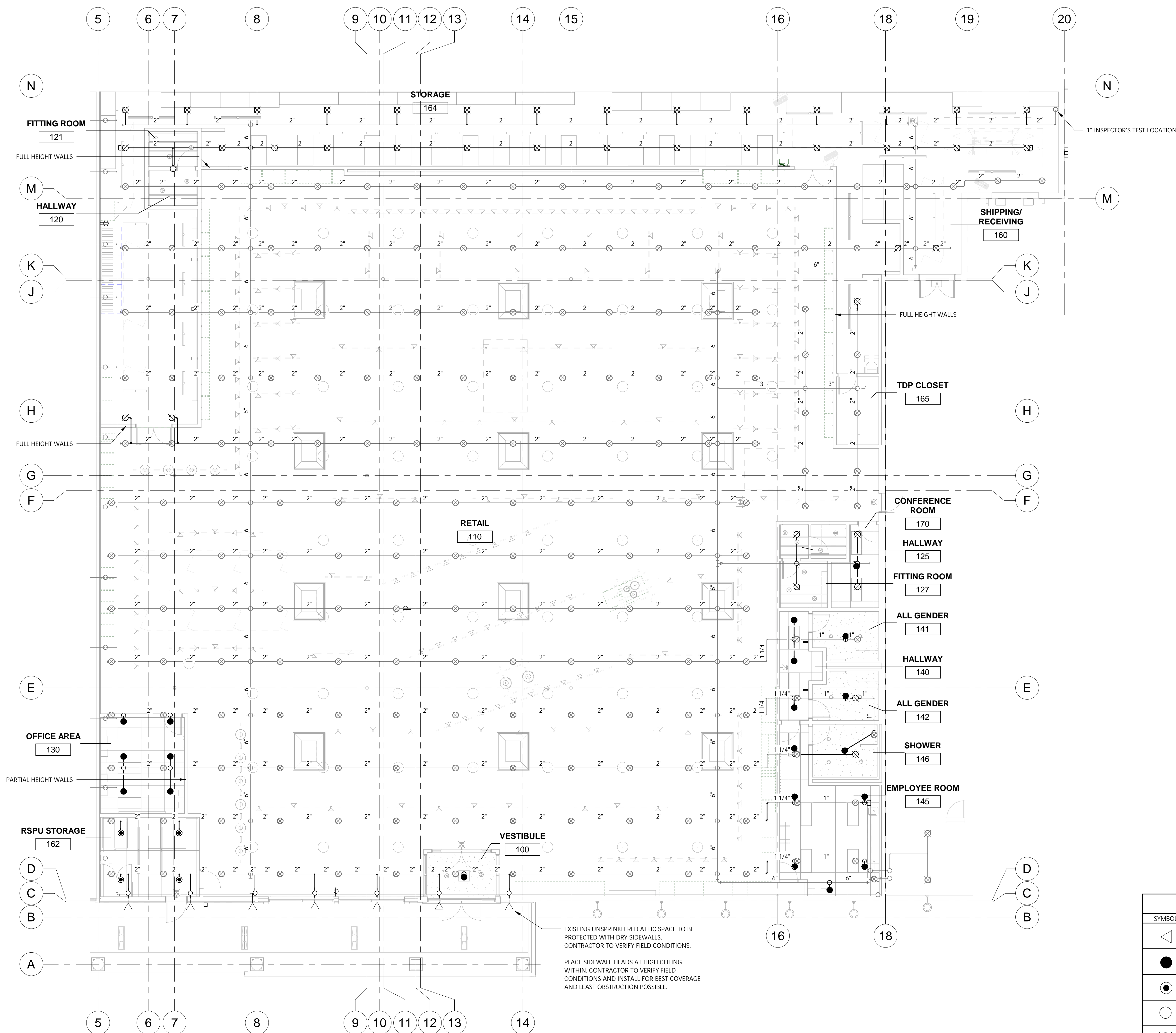
CONSULTANT INFORMATION  
**NRG FIRE CONSULTING**  
7511 Greenwood Avenue, #600  
Seattle, WA 98103  
(206) 769-0105  
nrgfireconsulting.com

PROJECT INFORMATION  
**REI-GLENWOOD SPRINGS**  
3246 S. GLEN AVENUE  
GLENWOOD SPRINGS, CO 81601

SIGNATURE/SEAL:

REV	DATE	DESCRIPTION
09.24.21	09.24.21	PA REVIEW SET
10.01.21	10.01.21	PO REVIEW SET
10.20.21	10.20.21	OWNER REVIEW SET
11.05.21	11.05.21	PERMIT SET
11.08.21	11.08.21	BID SET
1	12.20.21	BULLETIN 2
01.14.22	01.14.22	CONSTRUCTION SET

SHEET TITLE:  
**FIRE PROTECTION DEMO PLAN**  
SHEET NUMBER:  
**FP2.0**



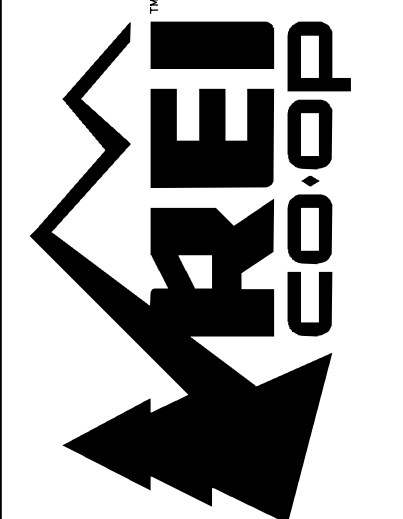
1 FIRE PROTECTION REFLECTED CEILING PLAN  
1/8" = 1'-0"

FIRE SPRINKLER LEGEND								
SYMBOL	MANUF.	S.I.N.	STYLE	FINISH	ESC.	TEMP.	K-FAC	Count
			SDWL	Brass	Deep	200 °F	5.6	7
			SSP	Brass	None	200 °F	5.6	27
			SSP	Brass	None	200 °F	11.2	4
			SSU	Brass	None	200 °F	5.6	1
			SSU	Brass	None	286 °F	11.2	39
GRAND TOTAL:								78

NOTES TO THE CONTRACTOR

- IN ADDITION TO THE SPRINKLER QUANTITIES NOTED, ADDITIONAL SPRINKLERS OF EACH TYPE WILL BE REQUIRED PER NFPA 13 REQUIREMENTS.
- ARM-OVER PIPING AND/OR DROPS SHALL BE 1-IN. SCHEDULE-40 PIPING, UNLESS NOTED OTHERWISE.
- DROPS TO NEW SPRINKLERS SHALL MATCH EXISTING OVERHEAD LINES, UNLESS CONTRACTORS' CALCULATIONS PROVE SMALLER PIPING WILL SUFFICE.
- THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARM-OVER TO A SPRINKLER, SPRINKLER DROP, OR A SPRIG UP SHALL NOT EXCEED 24-IN. FOR STEEL PIPING.
- FIRE PROTECTION CONTRACTOR SHALL COORDINATE ALL PENDENT SPRINKLER LOCATIONS WITH MECHANICAL AND LIGHT/ELECTRICAL CONTRACTORS AS REQUIRED. COORDINATION MAY REQUIRE THE ADJUSTMENT OF EXISTING/NEW SPRINKLERS OR THE RELOCATION OR NEW/EXISTING LIGHTING. A COORDINATION MEETING WITH THE TRADES AND THE GC IS RECOMMENDED.
- \*CORRECT SPRINKLER LOCATIONS AND/OR QUANTITIES IS THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR. CONTRACTOR SHALL PLACE IN THEIR BID AS A SEPARATE LINE ITEM EXTRA QUANTITY OF SPRINKLERS. COST OF EXTRA SPRINKLERS SHALL BE ACCOUNTED FOR AT TIME OF BID. CONTRACTOR WILL NOT BE AWARDED COST OF EXTRA SPRINKLERS AFTER BID APPROVAL, UNLESS OWNER CHANGES INDICATE OTHERWISE.

CLIENT STORE NUMBER  
**#235**

CLIENT INFORMATION  


ARCHITECT INFORMATION  
**CALLISONRTKL**  
CallisonRTKL Inc.  
1100 U.S. Bank Centre  
2400 South Main, Suite 100  
Seattle, WA 98101  
006-132964.81

CONSULTANT INFORMATION  
  
7511 Greenwood Avenue, #600  
Seattle, WA 98113  
(206) 769-0165  
nrgfireconsulting.com

PROJECT INFORMATION  
**REI-GLENWOOD SPRINGS**  
3246 S. GLEN AVENUE  
GLENWOOD SPRINGS, CO. 81601

SIGNATURE/SEAL

ISSUING/ISSUANCE LOG

REV	DATE	DESCRIPTION
09.24.21	PA REVIEW SET	
10.01.21	PO REVIEW SET	
10.20.21	OWNER REVIEW SET	
11.05.21	PERMIT SET	
11.08.21	BID SET	
12.20.21	BULLETIN 2	
01.14.22	CONSTRUCTION SET	

SHEET TITLE  
**FIRE PROTECTION PIPING  
PLAN - TENANT  
IMPROVEMENTS**

SHEET NUMBER  
**FP3.0**



