

NFPA 13
PERMIT

Unified Fire Authority
Fire Prevention Division



Inspector: Danny Egbert: 801-743-7235

Date: December 31, 2020

ACCEPTED

Project: **La Caille - TI**

Address: 9565 Wasatch Blvd

Contractor: Fire Suppression Service, Inc.

Designer: Kent Johnston

Address: 3802 South 2300 East, Salt Lake City, Utah 84109

Phone #: (801) 277-6464

Occupancy: A-2

Plan Review Comments:

- Third party review done by WC3. See letter dated December 14, 2020.
- Verify that there are no obstructions to fire sprinkler spray pattern development.

Inspection Notes:

Grid #: 144

File Number 142-20

FIRE SPRINKLER

December 14, 2020



Arun

Fire Suppression Service, Inc.
3802 South 2300 East
Salt Lake City, UT 84109
Phone: 801-277-6464
arunFSS@live.com

Fire Suppression Service – FINAL FIRE REVIEW

Client Permit No.: N/A
WC³ Job No.: 220-715-002

Re: Plan Review: La Caille - FSS
Address: 9565 South Wasatch Boulevard, Sandy, UT

Mr. Mills:

West Coast Code Consultants, Inc. (WC³) has completed the final review of the following documents for the project referenced above on behalf of Fire Suppression Service, Inc.:

1. Fire suppression plans: dated 11/15/2020, by Fire Suppression Services.
2. Specifications: .

The 2018 IBC, IFC, IMC, 2017 NEC, and applicable NFPA standards, were used as the basis of our review. **Please note that our review has been completed and we have no further comments, and no further submittals are required.**

Please note that West Coast Code Consultants', Inc. (WC³) plan review is limited only to the provisions regulated and enforced by the State of Utah. Please be aware that additional comments in relation to this application may be generated by other divisions/departments within the jurisdiction. Please do not return plans until all comments from all applicable divisions/departments have been addressed.

Please call if you have any questions or if we can be of further assistance.

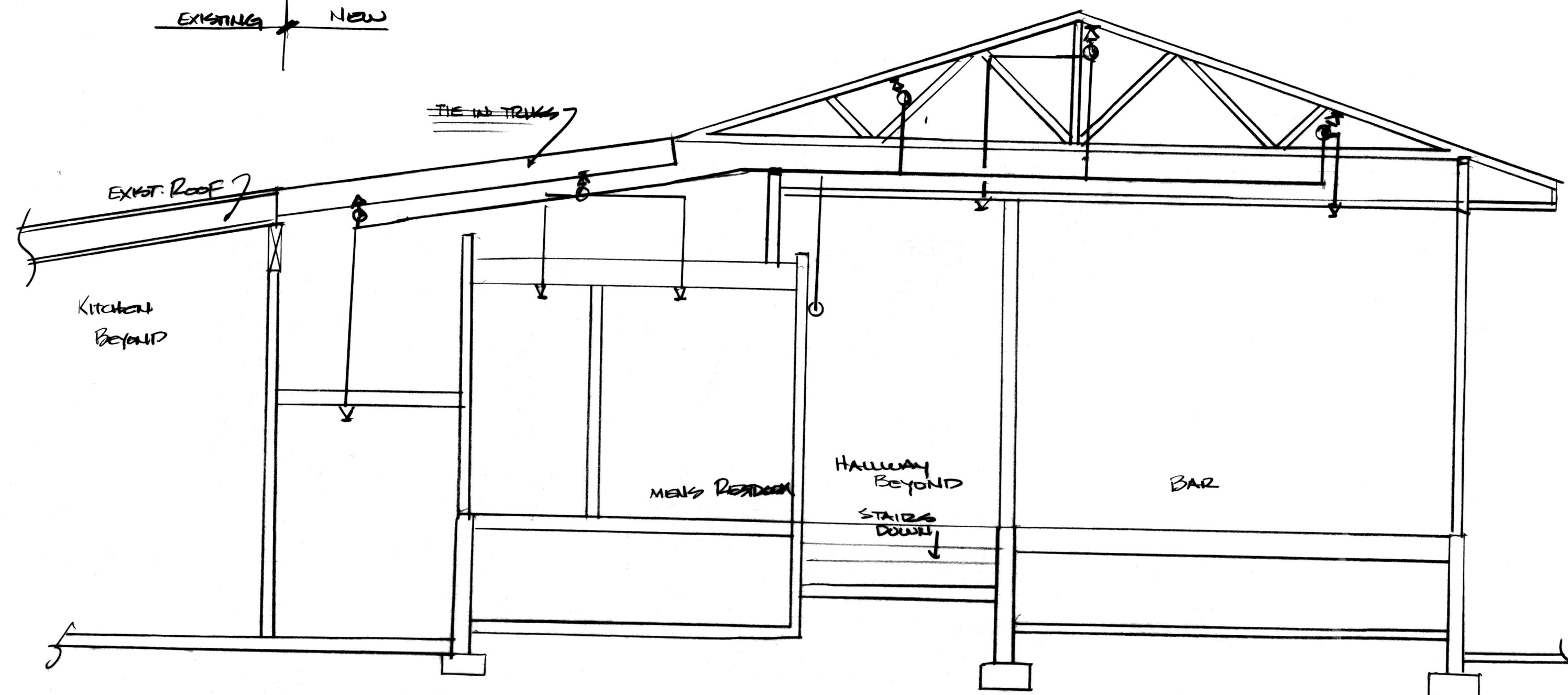
Sincerely,

West Coast Code Consultants, Inc. (WC³)

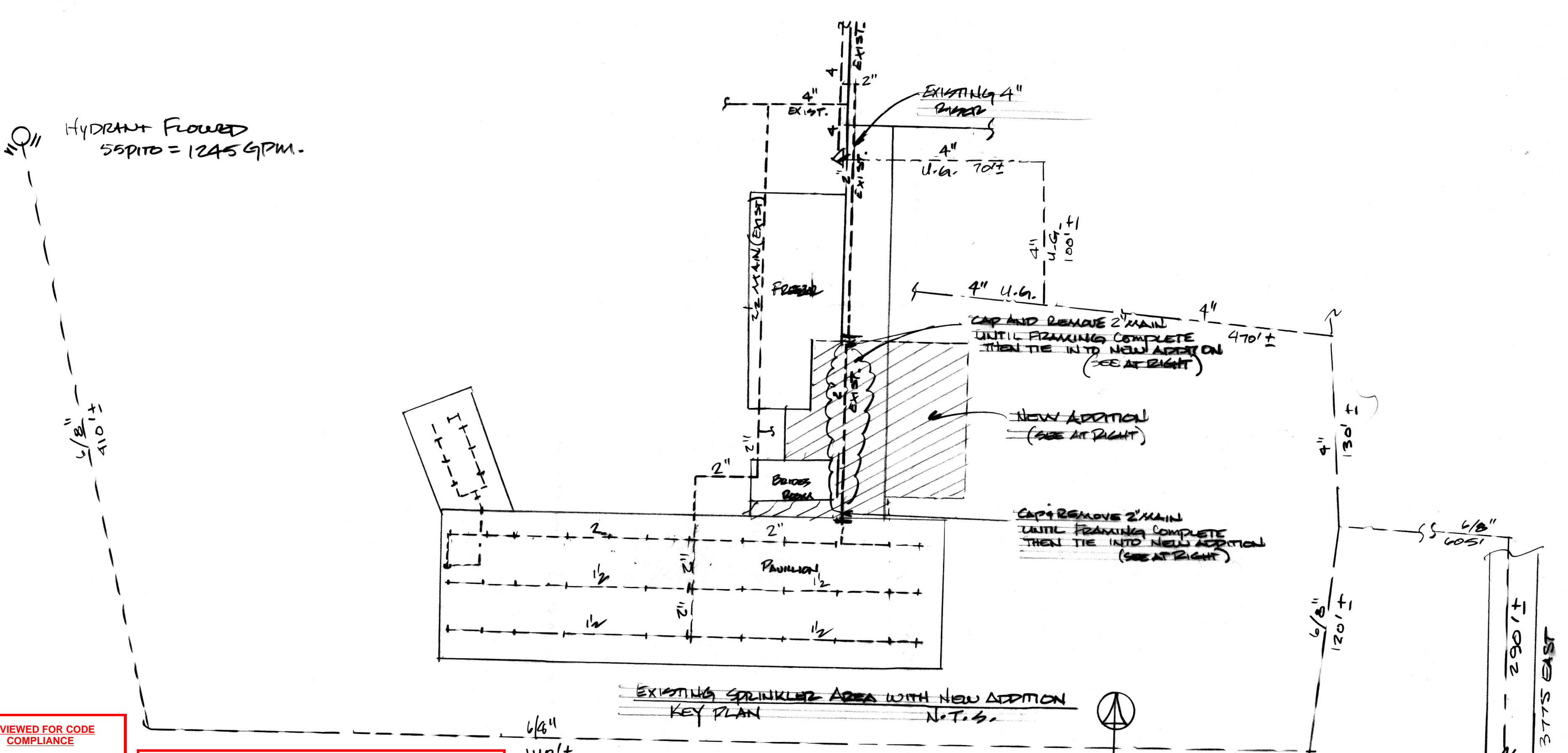
Fire Plan Review By:

Craig Hanson, Fire & Life Safety Plans Examiner

cc: Fire Suppression Service, Inc. Staff

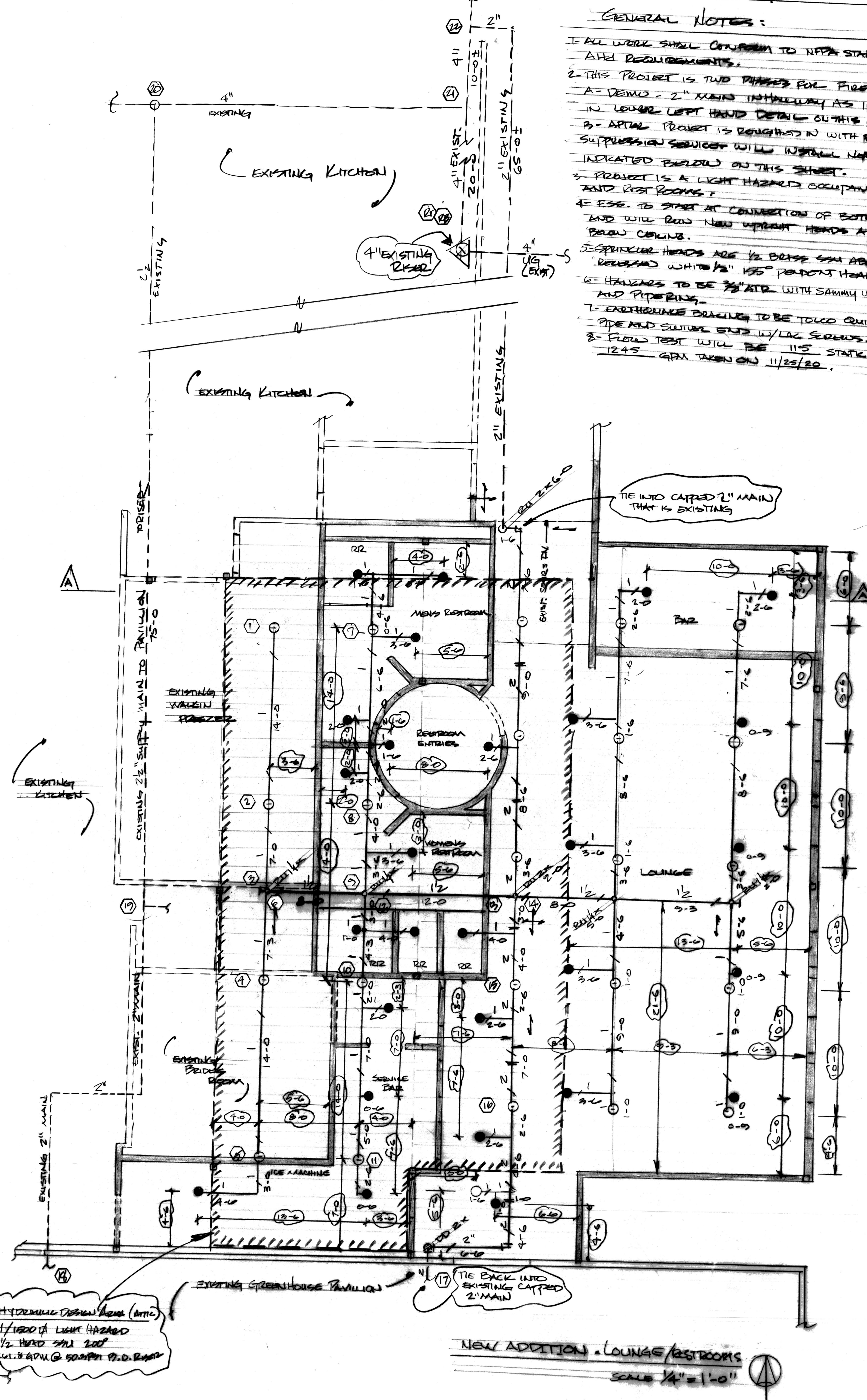


A CROSS SECTION THRU RESTROOM/BAR
SCALE 1/4" = 1'-0"



EXISTING SPRINKLER AREA WITH NEW ADDITION
KEY PLAN
N.T.S.

- GENERAL NOTES:**
- 1- ALL WORK SHALL CONFORM TO NFPA STANDARDS AND MEET ALL REQUIREMENTS.
 - 2- THIS PROJECT IS TWO PHASES FOR FIRE PROTECTION.
 - 3- A- DEMO - 2" MAIN INSTALLING AS INDICATED IN LOWER LEFT HAND DETAIL ON THIS SHEET.
 - 4- B- ACTUAL PROJECT IS ROUTED IN WITH FRAMING, FIRE SUPPRESSION SERVICE WILL INSTALL NEW SYSTEM AS INDICATED BELOW ON THIS SHEET.
 - 5- PROJECT IS A LIGHT HAZARD OCCUPANCY FOR LOUNGE AND REST ROOMS.
 - 6- ESSE. TO START AT CONNECTION OF BOTH DEMO AREAS AND WILL RUN NEW UPRIGHT HEADS AND HANGERS BELOW CEILING.
 - 7- SPRINKLER HEADS ARE 1/2 BRASS S&W APPROX. 200° AND RECESSED WHITE 1/2" 155° PENDANT HEADS BELOW.
 - 8- HALLWAYS TO BE 3/4" ATD WITH SAMMY WOOD SIDE SCREWS AND PIPING.
 - 9- CARTRIDGE BRACING TO BE TOLCO QUICK CLAMP, 1" PIPE AND SOLDER ENDS W/ LAG SCREWS.
 - 10- FLOW TEST WILL BE 115 STATIC, 102 RESIDUAL, 1245 GPM TAKEN ON 11/25/20.



NEW ADDITION - LOUNGE/RESTROOMS
SCALE 1/4" = 1'-0"

REVIEWED FOR CODE COMPLIANCE

FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED IN OUR PLAN REVIEW COMMENT LETTER DATED 12/14/2020

PLAN REVIEW ACCEPTANCE OR DOCUMENTS DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS.

DATE: 12/14/2020
WEST COAST CODE CONSULTANTS, INC.

UNIFIED FIRE AUTHORITY
FIRE PREVENTION DIVISION

☒ Accepted
☐ Accepted with Comments
☐ Rejected, revisions are required

Plan Review By: *Shirley Chang* 12/31/2020

*Plan acceptance does not constitute final project approval or supersede the responsibility to comply with adopted codes and standards. Final approval will be based upon field inspection and acceptance testing. Ultimately, responsibility for compliance rests with the building owner.

| | | | | | |
|-----------|--|--------------|----------|----------|----------|
| DATE: | 11/15/20 | SCALE: | AS NOTED | DOWN BY: | K.L.J. |
| | 11/15/20 | 1/4" = 1'-0" | AS NOTED | 11/15/20 | 11/15/20 |
| PROJECT: | LA CAYES - PHASE 2 - LOUNGE/RESTROOMS | | | | |
| DESIGN: | DESIGN: VANDERBILT POWER/ROAD | | | | |
| ENGINEER: | ENGINEER: CHART 81002 | | | | |
| DATE: | 11/15/20 | | | | |
| PROJECT: | FIRE SUPPRESSION SERVICES | | | | |
| ADDRESS: | 2000 SO. 2000E. SALT LAKE CITY, UT 84109 | | | | |
| SHEET: | 1 of 1 | | | | |

ENGINEERS : MAIN STREET FIRE PROTECTION. (801) 830-3856.
ADDRESS : 9959 N Meadow Lane, Highland UT 84003.

LICENSE :
DESIGNER : Kent Johnston
DATE : 11-27-2020

FILE : C:\HYDRON59\La Caille Attic.HYD
JOB NAME : La Caille Attic
LOCATION : 9565 S Wasatch Boulevard Sandy, Utah

DESIGN DATA.

| | |
|-------------------------------|--------------------|
| HAZARD : | LIGHT HAZARD ATTIC |
| DENSITY : | 0.134 Sq Ft |
| AREA PER SPRINKLER : | 112 Sq Ft |
| TOTAL CALCULATED AREA : | 1456 Sq Ft |
| TOTAL SPRINKLERS CALCULATED : | 13 Heads |

FLOW DATA.

| | |
|------------------------|-----------|
| TOTAL SPRINKLER FLOW : | 261.8 Gpm |
| TOTAL HOSE STREAM : | 100.0 Gpm |
| TOTAL WATER REQUIRED : | 361.8 Gpm |
| BASE OF RISER NODE : | RB |
| FLOW : | 261.8 Gpm |
| PRESS : | 50.3 Psi |

AUTHORITY HAVING JURISDICTION : Draper UFA
PHONE :

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SOURCE | STATIC : 115 Psi RESIDUAL : 102 Psi FLOW : 1245 Gpm

| NODE NO. | ELEVATION Feet | K-FACTOR | PRESSURE Psi | DISCHARGE Gpm |
|-------------|-------------------|----------|-----------------|------------------|
| 1 | 16.0 | 5.60 | 7.0 | 14.8 |
| 2 | 16.0 | 5.60 | 7.9 | 15.7 |
| 3 | 16.0 | | 10.9 | |
| 4 | 16.0 | 5.60 | 7.9 | 15.7 |
| 5 | 16.0 | 5.60 | 7.0 | 14.8 |
| 6 | 15.0 | | 13.2 | |
| 7 | 16.0 | 5.60 | 7.5 | 15.3 |
| 8 | 16.0 | 5.60 | 8.4 | 16.3 |
| 9 | 16.0 | | 11.7 | |
| 10 | 16.0 | 5.60 | 8.4 | 16.3 |
| 11 | 16.0 | 5.60 | 7.5 | 15.3 |
| 12 | 15.0 | | 14.1 | |
| 13 | 15.0 | | 19.1 | |
| 14 | 16.0 | | 23.3 | |
| 15 | 16.0 | 5.60 | 23.5 | 27.2 |
| 16 | 16.0 | 5.60 | 23.9 | 27.4 |
| 17 | 10.0 | | 32.5 | |
| 18 | 10.0 | | 35.3 | |
| 19 | 10.0 | | 40.7 | |
| 20 | 10.0 | | 44.4 | |
| 21 | 10.0 | | 44.6 | |
| 22 | 10.0 | | 44.6 | |
| 23 | 16.0 | 5.60 | 25.2 | 28.1 |
| 24 | 16.0 | 5.60 | 24.3 | 27.6 |
| 25 | 16.0 | 5.60 | 23.8 | 27.3 |
| RT | 10.0 | | 45.4 | |
| RB | 0.0 | | 50.3 | |
| CONN | 0.0 | SOURCE | 52.2 | 361.8 |

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| | | | |
|--------------------|---|-----|-------|
| SPRINKLERS FLOWING | : | 13 | Heads |
| AREA PER SPRINKLER | : | 112 | Sq Ft |
| MIN SPRINKLER FLOW | : | 15 | Gpm |

| | | | |
|------------------|---|-------|-----------|
| REQUIRED DENSITY | : | 0.134 | Gpm/Sq Ft |
| COMPUTED DENSITY | : | 0.132 | Gpm/Sq Ft |

| | | | |
|-----------------------|---|-------|-----|
| TOTAL SPRINKLER FLOW | : | 261.8 | Gpm |
| INSIDE HOSE STREAM | : | | Gpm |
| OUTSIDE HOSE STREAM | : | 100 | Gpm |
| TOTAL WATER REQUIRED | : | 361.8 | Gpm |
| TOTAL SPRINKLER PRESS | : | 52.2 | Psi |
| FIXED PRESS LOSS | : | 0.0 | Psi |

| | | | |
|------------------------|---|-------|-----|
| SUPPLY PRESS AVAILABLE | : | 113.7 | Psi |
| DEMAND PRESS REQUIRED | : | 52.2 | Psi |
| PRESSURE CUSHION | : | 61.5 | Psi |
| MAXIMUM VELOCITY | : | 18.6 | F/S |

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by
Hydronics Engineering
34119 Fremont Bl, Suite 609
Fremont, CA 94555
(800) 845-9819

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JOB : La Caille Attic

DATE: 11-27-2020 FILE: C:\HYDRON59\La Caille Attic.HYD

| PIPE NO. | BEG END | ELEV (Feet) ELEV | FLOW Gpm | K-FACTOR FITTING TYPE DIAMETER | LENGTH FTG TOTAL | C-FACTOR FRI-LOSS (Psi/Ft) | PRESSURE (Psi) | | |
|----------|---------|------------------|-----------|--------------------------------|------------------|----------------------------|----------------|------|---------|
| 1 | 1 | 16.0 | q= 14.8 | K= 5.60 L= | 14.0 | | Pt | 7.0 | Pt 7.0 |
| | | | Q= 14.8 | F= F= | 0.0 | C= 120 | Pe | 0.0 | Pv -0.2 |
| | | | Vel= 5.1 | D= 1.089 TL= | 14.0 | 0.0622 | Pf | 0.9 | Pn 6.8 |
| 2 | 2 | 16.0 | | | | | Pt | 7.9 | |
| | | | q= 15.7 | K= 5.60 L= | 7.0 | | Pt | 7.9 | Pt 7.9 |
| | | | Q= 30.5 | F= T F= | 6.0 | C= 120 | Pe | 0.0 | Pv -0.7 |
| 3 | 3 | 16.0 | Vel= 10.5 | D= 1.089 TL= | 13.0 | 0.2367 | Pf | 3.1 | Pn 7.1 |
| | | | | | | | Pt | 10.9 | |
| | | | q= 14.8 | K= 5.60 L= | 14.0 | | Pt | 7.9 | Pt 7.9 |
| 4 | 4 | 16.0 | Q= 14.8 | F= F= | 0.0 | C= 120 | Pe | 0.0 | Pv -0.2 |
| | | | Vel= 5.1 | D= 1.089 TL= | 14.0 | 0.0622 | Pf | 0.9 | Pn 7.7 |
| | | | | | | | Pt | 7.0 | |
| 5 | 3 | 16.0 | q= 15.7 | K= 5.60 L= | 7.0 | | Pt | 10.9 | Pt 10.9 |
| | | | Q= 30.5 | F= T F= | 6.0 | C= 120 | Pe | 0.0 | Pv -0.7 |
| | | | Vel= 10.5 | D= 1.089 TL= | 13.0 | 0.2367 | Pf | 3.1 | Pn 10.2 |
| 6 | 4 | 16.0 | | | | | Pt | 7.9 | |
| | | | q= 0.0 | K= 0.00 L= | 1.0 | | Pt | 10.9 | Pt 10.9 |
| | | | Q= 61.0 | F= T F= | 7.0 | C= 120 | Pe | 0.4 | Pv -1.0 |
| 7 | 6 | 15.0 | Vel= 12.4 | D= 1.420 TL= | 8.0 | 0.2343 | Pf | 1.9 | Pn 9.9 |
| | | | | | | | Pt | 13.2 | |
| | | | q= 0.0 | K= 0.00 L= | 8.0 | | Pt | 13.2 | Pt 13.2 |
| 8 | 6 | 15.0 | Q= 61.0 | F= F= | 0.0 | C= 120 | Pe | 0.0 | Pv -0.6 |
| | | | Vel= 9.1 | D= 1.650 TL= | 8.0 | 0.1128 | Pf | 0.9 | Pn 12.6 |
| | | | | | | | Pt | 14.1 | |
| 9 | 7 | 16.0 | q= 15.3 | K= 5.60 L= | 14.0 | | Pt | 7.5 | Pt 7.5 |
| | | | Q= 15.3 | F= F= | 0.0 | C= 120 | Pe | 0.0 | Pv -0.2 |
| | | | Vel= 5.3 | D= 1.089 TL= | 14.0 | 0.0663 | Pf | 0.9 | Pn 7.3 |
| 10 | 8 | 16.0 | | | | | Pt | 8.4 | |
| | | | q= 16.3 | K= 5.60 L= | 7.0 | | Pt | 8.4 | Pt 8.4 |
| | | | Q= 31.6 | F= T F= | 6.0 | C= 120 | Pe | 0.0 | Pv -0.8 |
| 11 | 9 | 16.0 | Vel= 10.9 | D= 1.089 TL= | 13.0 | 0.2525 | Pf | 3.3 | Pn 7.6 |
| | | | | | | | Pt | 11.7 | |
| | | | q= 15.3 | K= 5.60 L= | 14.0 | | Pt | 8.4 | Pt 8.4 |
| 12 | 10 | 16.0 | Q= 15.3 | F= F= | 0.0 | C= 120 | Pe | 0.0 | Pv -0.2 |
| | | | Vel= 5.3 | D= 1.089 TL= | 14.0 | 0.0663 | Pf | 0.9 | Pn 8.2 |
| | | | | | | | Pt | 7.5 | |

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JOB : La Caille Attic

DATE: 11-27-2020 FILE: C:\HYDRON59\La Caille Attic.HYD

| PIPE NO. | BEG END | ELEV (Feet) ELEV | FLOW Gpm | K-FACTOR FITTING TYPE DIAMETER | LENGTH FTG TOTAL | C-FACTOR FRI-LOSS (Psi/Ft) | PRESSURE (Psi) | | | |
|----------|---------|---------------------|-----------|--------------------------------------|------------------------|----------------------------------|-------------------|------|----|------|
| 10 | 9 | 16.0 | q= 16.3 | K= 5.60 | L= 7.0 | | Pt | 11.7 | Pt | 11.7 |
| | | | Q= 31.6 | F= T | F= 6.0 | C= 120 | Pe | 0.0 | Pv | -0.8 |
| | | | Vel= 10.9 | D= 1.089 | TL= 13.0 | 0.2525 | Pf | 3.3 | Pn | 10.9 |
| | 10 | 16.0 | | | | | Pt | 8.4 | | |
| 11 | 9 | 16.0 | q= 0.0 | K= 0.00 | L= 1.0 | | Pt | 11.7 | Pt | 11.7 |
| | | | Q= 63.2 | F= T | F= 7.0 | C= 120 | Pe | 0.4 | Pv | -1.1 |
| | | | Vel= 12.8 | D= 1.420 | TL= 8.0 | 0.2500 | Pf | 2.0 | Pn | 10.6 |
| | 12 | 15.0 | | | | | Pt | 14.1 | | |
| 12 | 12 | 15.0 | q= 0.0 | K= 0.00 | L= 12.0 | | Pt | 14.1 | Pt | 14.1 |
| | | | Q= 124.2 | F= | F= 0.0 | C= 120 | Pe | 0.0 | Pv | -2.3 |
| | | | Vel= 18.6 | D= 1.650 | TL= 12.0 | 0.4201 | Pf | 5.0 | Pn | 11.8 |
| | 13 | 15.0 | | | | | Pt | 19.1 | | |
| 13 | 13 | 15.0 | q= 0.0 | K= 0.00 | L= 2.0 | | Pt | 19.1 | Pt | 19.1 |
| | | | Q= 124.2 | F= T | F= 9.0 | C= 120 | Pe | -0.4 | Pv | -2.3 |
| | | | Vel= 18.6 | D= 1.650 | TL= 11.0 | 0.4201 | Pf | 4.6 | Pn | 16.8 |
| | 14 | 16.0 | | | | | Pt | 23.3 | | |
| 14 | 14 | 16.0 | q= 27.2 | K= 5.60 | L= 7.0 | | Pt | 23.3 | Pt | 23.3 |
| | | | Q= 63.1 | F= | F= 0.0 | C= 120 | Pe | 0.0 | Pv | -0.2 |
| | | | Vel= 5.3 | D= 2.203 | TL= 7.0 | 0.0294 | Pf | 0.2 | Pn | 23.1 |
| | 15 | 16.0 | | | | | Pt | 23.5 | | |
| 15 | 15 | 16.0 | q= 27.2 | K= 5.60 | L= 7.0 | | Pt | 23.5 | Pt | 23.5 |
| | | | Q= 90.2 | F= | F= 0.0 | C= 120 | Pe | 0.0 | Pv | -0.4 |
| | | | Vel= 7.6 | D= 2.203 | TL= 7.0 | 0.0570 | Pf | 0.4 | Pn | 23.1 |
| | 16 | 16.0 | | | | | Pt | 23.9 | | |
| 16 | 16 | 16.0 | q= 27.4 | K= 5.60 | L= 30.0 | | Pt | 23.9 | Pt | 23.9 |
| | | | Q= 117.6 | F= 3ET | F= 35.0 | C= 120 | Pe | 2.6 | Pv | -0.7 |
| | | | Vel= 9.9 | D= 2.203 | TL= 65.0 | 0.0930 | Pf | 6.0 | Pn | 23.3 |
| | 17 | 10.0 | | | | | Pt | 32.5 | | |
| 17 | 17 | 10.0 | q= 0.0 | K= 0.00 | L= 30.0 | | Pt | 32.5 | Pt | 32.5 |
| | | | Q= 117.6 | F= | F= 0.0 | C= 120 | Pe | 0.0 | Pv | -0.7 |
| | | | Vel= 9.9 | D= 2.203 | TL= 30.0 | 0.0930 | Pf | 2.8 | Pn | 31.9 |
| | 18 | 10.0 | | | | | Pt | 35.3 | | |
| 18 | 18 | 10.0 | q= 0.0 | K= 0.00 | L= 30.0 | | Pt | 35.3 | Pt | 35.3 |
| | | | Q= 117.6 | F= 2ET | F= 28.0 | C= 120 | Pe | 0.0 | Pv | -0.7 |
| | | | Vel= 9.9 | D= 2.203 | TL= 58.0 | 0.0930 | Pf | 5.4 | Pn | 34.7 |
| | 19 | 10.0 | | | | | Pt | 40.7 | | |

ENGINEERS : MAIN STREET FIRE PROTECTION. (801) 830-3856.

ADDRESS : 9959 N Meadow Lane, Highland UT 84003.

JOB : La Caille Attic

DATE: 11-27-2020 FILE: C:\HYDRON59\La Caille Attic.HYD

| PIPE NO. | BEG END | ELEV (Feet) ELEV | FLOW Gpm | K-FACTOR FITTING TYPE DIAMETER | LENGTH FTG TOTAL | C-FACTOR FRI-LOSS (Psi/Ft) | PRESSURE (Psi) | | | |
|----------|---------|------------------|-----------|--------------------------------|------------------|----------------------------|----------------|------|----|------|
| 19 | 19 | 10.0 | q= 0.0 | K= 0.00 L= | 78.0 | | Pt | 40.7 | Pt | 40.7 |
| | | | Q= 117.6 | F= ET F= | 30.0 | C= 120 | Pe | 0.0 | Pv | -0.3 |
| | | | Vel= 6.6 | D= 2.703 TL= | 108.0 | 0.0343 | Pf | 3.7 | Pn | 40.4 |
| | 20 | 10.0 | | | | | Pt | 44.4 | | |
| 20 | 20 | 10.0 | q= 0.0 | K= 0.00 L= | 25.0 | | Pt | 44.4 | Pt | 44.4 |
| | | | Q= 117.6 | F= T F= | 29.0 | C= 120 | Pe | 0.0 | Pv | 0.0 |
| | | | Vel= 2.6 | D= 4.310 TL= | 54.0 | 0.0035 | Pf | 0.2 | Pn | 44.4 |
| | 21 | 10.0 | | | | | Pt | 44.6 | | |
| 21 | 21 | 10.0 | q= 0.0 | K= 0.00 L= | 6.5 | | Pt | 44.6 | Pt | 44.6 |
| | | | Q= 144.1 | F= F= | 0.0 | C= 120 | Pe | 0.0 | Pv | -0.1 |
| | | | Vel= 3.2 | D= 4.310 TL= | 6.5 | 0.0052 | Pf | 0.0 | Pn | 44.5 |
| | 22 | 10.0 | | | | | Pt | 44.6 | | |
| 22 | 22 | 10.0 | q= 28.1 | K= 5.60 L= | 82.5 | | Pt | 44.6 | Pt | 44.6 |
| | | | Q= 144.1 | F= 4ET F= | 42.0 | C= 120 | Pe | 2.6 | Pv | -1.0 |
| | | | Vel= 12.1 | D= 2.203 TL= | 124.5 | 0.1354 | Pf | 16.9 | Pn | 43.6 |
| | 23 | 16.0 | | | | | Pt | 25.2 | | |
| 23 | 23 | 16.0 | q= 27.6 | K= 5.60 L= | 9.0 | | Pt | 25.2 | Pt | 25.2 |
| | | | Q= 116.0 | F= F= | 0.0 | C= 120 | Pe | 0.0 | Pv | -0.6 |
| | | | Vel= 9.8 | D= 2.203 TL= | 9.0 | 0.0907 | Pf | 0.8 | Pn | 24.5 |
| | 24 | 16.0 | | | | | Pt | 24.3 | | |
| 24 | 24 | 16.0 | q= 27.3 | K= 5.60 L= | 10.0 | | Pt | 24.3 | Pt | 24.3 |
| | | | Q= 88.4 | F= F= | 0.0 | C= 120 | Pe | 0.0 | Pv | -0.4 |
| | | | Vel= 7.4 | D= 2.203 TL= | 10.0 | 0.0548 | Pf | 0.5 | Pn | 24.0 |
| | 25 | 16.0 | | | | | Pt | 23.8 | | |
| 25 | 14 | 16.0 | q= 27.3 | K= 5.60 L= | 3.5 | | Pt | 23.3 | Pt | 23.3 |
| | | | Q= 61.1 | F= T F= | 14.0 | C= 120 | Pe | 0.0 | Pv | -0.2 |
| | | | Vel= 5.1 | D= 2.203 TL= | 17.5 | 0.0277 | Pf | 0.5 | Pn | 23.1 |
| | 25 | 16.0 | | | | | Pt | 23.8 | | |
| 26 | 21 | 10.0 | q= 0.0 | K= 0.00 L= | 20.0 | | Pt | 44.6 | Pt | 44.6 |
| | | | Q= 261.7 | F= T F= | 29.0 | C= 120 | Pe | 0.0 | Pv | -0.2 |
| | | | Vel= 5.8 | D= 4.310 TL= | 49.0 | 0.0155 | Pf | 0.8 | Pn | 44.4 |
| | RT | 10.0 | | | | | Pt | 45.4 | | |
| 27 | RT | 10.0 | q= 0.0 | K= 0.00 L= | 10.0 | | Pt | 45.4 | Pt | 45.4 |
| | | | Q= 261.7 | F= AC F= | 32.0 | C= 120 | Pe | 4.3 | Pv | -0.2 |
| | | | Vel= 5.8 | D= 4.310 TL= | 42.0 | 0.0155 | Pf | 0.7 | Pn | 45.1 |
| | RB | 0.0 | | | | | Pt | 50.3 | | |

ENGINEERS : MAIN STREET FIRE PROTECTION. (801) 830-3856.

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JOB : La Caille Attic

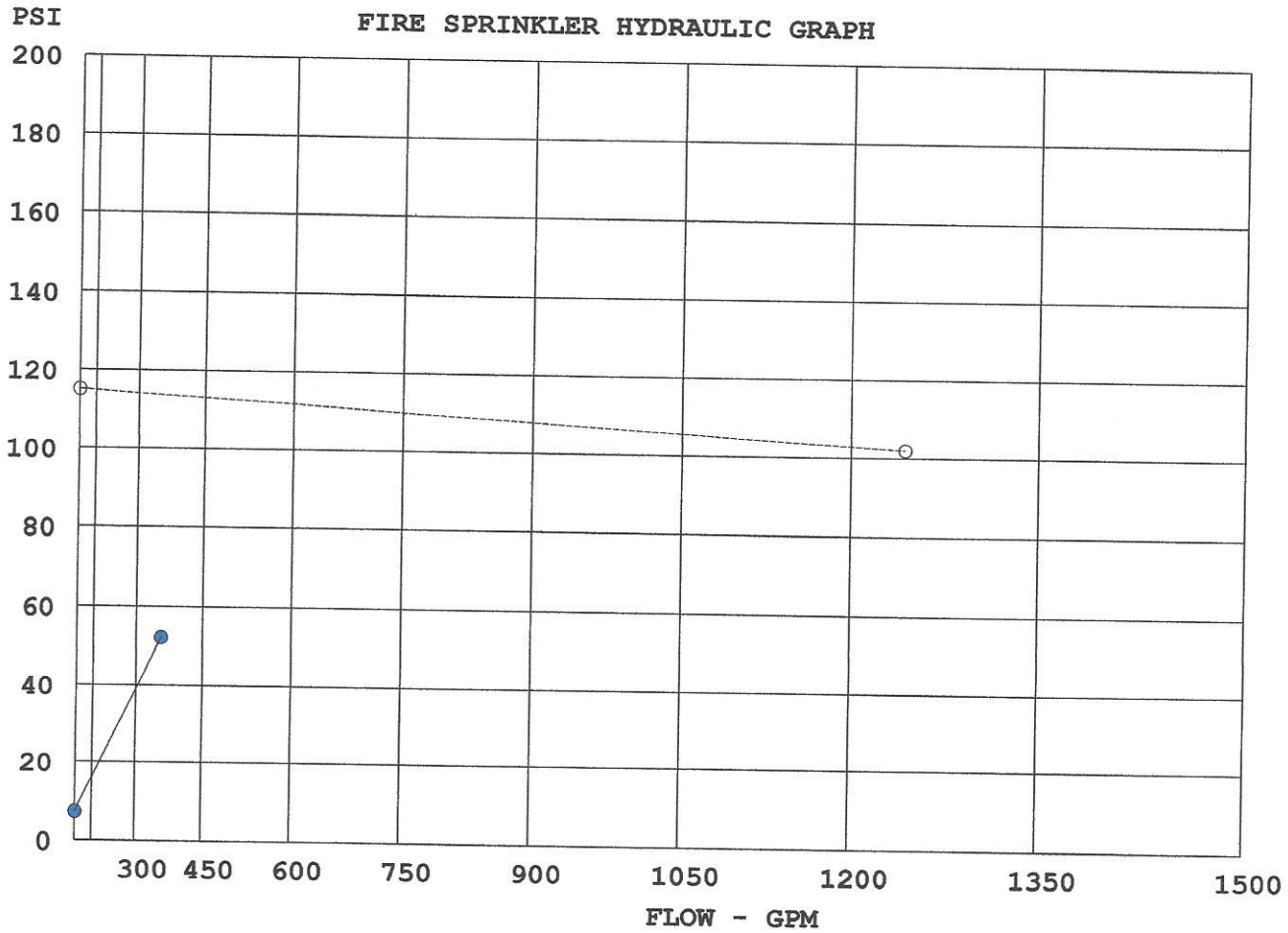
DATE: 11-27-2020 FILE: C:\HYDRON59\La Caille Attic.HYD

| PIPE NO. | BEG END | ELEV (Feet) ELEV | FLOW Gpm | K-FACTOR FITTING TYPE DIAMETER | LENGTH FTG TOTAL | C-FACTOR FRI-LOSS (Psi/Ft) | PRESSURE (Psi) |
|----------|---------|------------------|----------|--------------------------------|------------------|----------------------------|----------------|
| 28 | RB | 0.0 | q= 0.0 | K= 0.00 L= | 110.0 | Pt 50.3 Pt 50.3 | |
| | | | Q= 261.7 | F= ET F= | 40.0 | C= 140 Pe 0.0 Pv -0.2 | |
| | | | Vel= 5.8 | D= 4.280 TL= | 150.0 | 0.0121 Pf 1.8 Pn 50.1 | |
| | CONN | 0.0 | | | | Pt 52.2 | |
| | | | Q= 361.8 | <<< SOURCE >>> | | Pt 52.2 | |

E=90-Elb T=Tee L=LgtElb C=ChkVlv B=BfyVlv G=GatVlv A=AlmChk F=45-E

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DATE : 11-27-2020 FILE : C:\HYDRON59\La Caille Attic.HYD
JOB : La Caille Attic



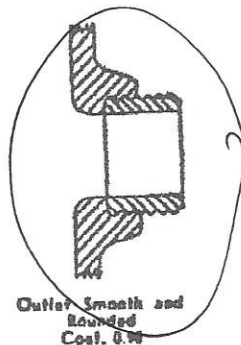
Static : 115 Psi
Resid : 102 Psi
Flow : 1245 Gpm

Avl Press : 113.7 Psi @ 362 Gpm
Req Press : 52.2 Psi @ 362 Gpm
Press Cush: 61.5 Psi

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34119 Fremont Bl, Suite 609
Fremont, CA 94555.
(800) 845-9819.

FLOW TEST DATA SHEET

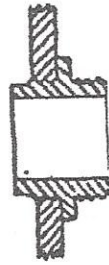
CITY SANDY CITY (UNINCORPORATED) SECTION _____
 NAME OF PROPERTY LA CAILLE RESTAURANT
 ADDRESS 9565 SO. WASATCH BLVD. SANDY, UTAH
 STATE UTAH
 DATE 11/25/20
 TIME 11:00 A.M.
 TEMPERATURE 35° ±
 TYPE OF CITY SYSTEM
 GRAVITY _____
 PUMPS _____
 COMBINATION X



Outlet Smooth and Rounded
Coef. 0.70



Outlet Square and Sharp
Coef. 0.60



Outlet Square & Projecting into B
Coef. 0.70

Fig. 12-12. Three general types of hydrant outlets and their coefficients of discharge

NOTES:

① FLOWED HYDRANT ON PROPERTY. ② FIRE SPER MAIN COMES OFF 6/8" MAIN BETWEEN STATIC READING AND FLOW HYD.

TEST CONDUCTED BY: KENT JOHNSTON FIRE SUPPRESSION SERVICES

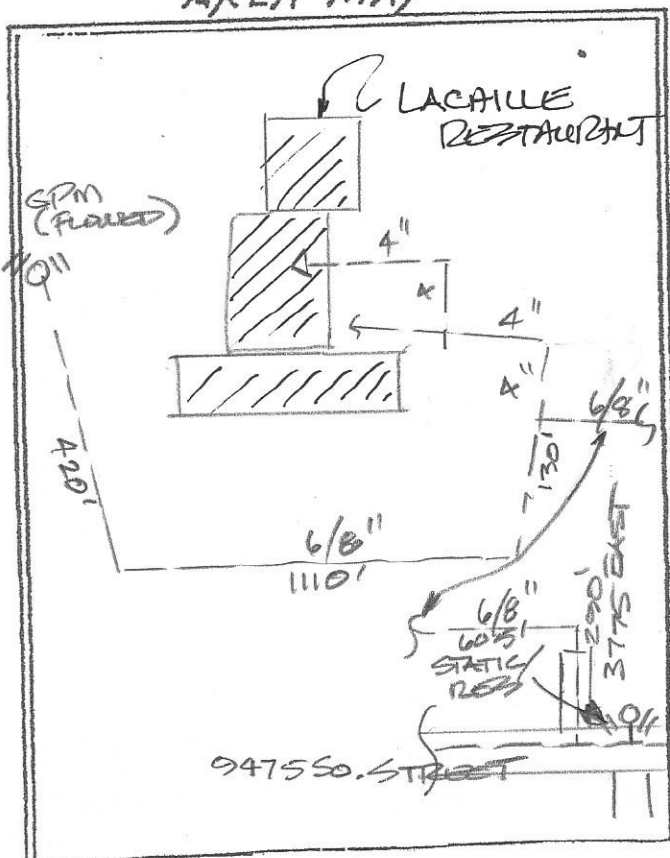
WITNESSED BY: KENT JOHNSTON GERALD STREBEL (SANDY F.D.)

INFO. DIST. TO: SANDY CITY FIRE DEPT. STEWART GRAY (UFA)

DRAINAGE CITY -

$$\text{HAZENWILLIAMS } 29.83 \times .9 \times 6.25 \times \sqrt{55(\text{ft})} = 1245 \text{ GPM}$$

AREA MAP



OUTLET #1. SIZE 2.2

| | GAGE # | DIRECT P.S.I. | ADJUSTED P.S.I. | FLOW | OUTLET COEF. | ADJUSTED FLOW |
|----------|--------|---------------|-----------------|------|--------------|---------------|
| STATIC | | 115 | | | | |
| RESID. | | 102 | | | | |
| PITOT | | 55 | | | | 1245 |
| SUB.TOT. | | | | | | |

OUTLET #2 SIZE

| | GAGE # | DIRECT P.S.I. | ADJUSTED P.S.I. | FLOW | OUTLET COEF. | ADJUSTED FLOW |
|----------|--------|---------------|-----------------|------|--------------|---------------|
| STATIC | | | | | | |
| RESID. | | | | | | |
| PITOT | | | | | | |
| SUB.TOT. | | | | | | |

ADJUSTED TOTALS

STATIC _____
 RESID _____

