LINCOLN 40 STUDENT HOUSING

1111 OLIVE DRIVE DAVIS, CA

APPLICABLE CODES

10. 2016 EDITION OF NFPA 20

11. 2016 EDITION OF NFPA 24

- CALIFORNIA FIRE CODE 2016 EDITION #20-2016
- 2016 EDITION #21-2016
- CALIFORNIA BUILDING CODE
- CALIFORNIA PLUMBING CODE 2016 EDITION #21-2016

FIRE PROTECTION PIPE ROUTING.

- 2016 EDITION #21-2016 CALIFORNIA ELECTRICAL CODE
- CALIFORNIA GREEN BUILDING STANDARDS 2016 EDITION #21-2016
- ENERGY EFFICIENCY STANDARDS 2016 EDITION (TITLE 24)

GENERAL NOTES

- 1. FIRE PROTECTION SYSTEM TO COMPLY WITH NFPA 13, AND ALL APPLICABLE STATE AND LOCAL CODES
- 2. ALL WIRING AND MONITORING OF ALARMS AND CLEANING AND PAINTING OF PIPE IS BY OTHERS.
- ELECTRICAL CONTRACTOR AND INSURE PROPER COORDINATION.

- FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE WALLS, CEILINGS, FLOORS, ROOFS, ETC. FIRE STOPPING MATERIAL SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTION. ALL FIRE STOP MATERIALS SHALL LISTED AS COMPATIBLE WITH CPVC
- 8. ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILINGS AND CHASES ARE BY THE GENERAL CONTRACTOR.
- SPRINKLER HEADS ARE TO BE COORDINATED WITH ALL EXISTING/NEW DIFFUSERS, SPEAKERS, LIGHTING FIXTURES AND CEILING SYSTEMS WHERE POSSIBLE WITHOUT ADDING ADDITIONAL SPRINKLERS.
- 10. VERIFY FINISH CEILING ELEVATION PRIOR TO INSTALLATION OF SPRINKLER HEADS.
- l 11. VERIFY LOCATION AND SIZE OF ALL OBSTRUCTIONS, LIGHT FIXTURES, CABINETS, HEAT SOURCES, SOFFITS, ETC...
- \parallel 12. METHODS OF HANGING PIPES, HEADERS AND BRANCHLINES SHALL BE IN ACCORDANCE WITH NFPA 13 AND THE HANGER CHART.
- 13. AUTOMATIC SPRINKLER TEMPERATURE RATINGS OF FUSIBLE ELEMENTS TO BE IN ACCORDANCE WITH NFPA 13.
- 14. ALL MATERIALS AND DEVICES TO BE U.L. LISTED AND/OR FM APPROVED. ALL DEVICES SHALL BE NEW AND FREE OF DEFECTS.
- 15. ALL SYSTEMS SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR 2 HOURS.
- 16. PROVIDE A PERMANENTLY ATTACHED PLACARD / SIGNAGE STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY
- 17. SYSTEM PIPING TO BE OF STEEL PIPE AND IRON FITTINGS MEETING THE CRITERIA OF ASTM AND NFPA 13.
- A: ALL THREADED PIPE TO BE EDDYTHREAD OR APPROVED EQUAL. B: ALL 4" AND SMALLER GROOVED PIPE TO BE EDDY FLOW OR APPROVED EQUAL.
- C: ALL 6" AND LARGER GROOVED PIPE TO BE SCHEDULE 10.
- D: CPVC PIPE AND FITTINGS MAY BE UTILIZED PURSUANT TO MANUFACTURERS LISTING.
- 18. UNDERGROUND FIRE SERVICE SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 24 AND THE LOCAL AUTHORITY HAVING JURISDICTION (BY OTHERS).
- 19. HAZARDOUS MATERIAL SHALL BE PLACED IN A SECURE (LOCKED) AREA AT THE COMPLETION OF EACH WORK DAY.
- 20. ALL WORK SHALL BE INSTALLED IN A SAFE AND WORKMANLIKE MANNER. REPORT ANY UNSAFE ACTIVITY OR JOB-SITE HAZARD TO YOUR SUPERVISOR IMMEDIATELY.
- 21. REPORT ALL INJURIES REQUIRING MEDICAL ATTENTION THE SAME BUSINESS DAY IN WHICH THEY OCCUR.
- 22. SPRINKLER PIPE SIZING SHALL BE ESTABLISHED BY HYDRAULIC CALCULATIONS.
- 23. CONTRACTOR IS RESPONSIBLE FOR THE PROPER DESIGN AND INSTALLATION OF THE FIRE SPRINKLER SYSTEM, INCLUDING COORDINATION OF THE WORK OF OTHER TRADES.

EARTHQUAKE PROTECTION NOTES

- 1. EARTHQUAKE PROTECTION SHALL BE IN ACCORDANCE WITH NFPA 13, AND ALL APPLICABLE STATE AND LOCAL CODES.
- 2. ALL PIPING USED FOR BRACES SHALL BE SCH-40 BLACK PIPE.
- 3. LATERAL SWAY BRACING SPACED AT A MAXIMUM INTERVAL OF 40 FT. SHALL BE PROVIDED ON ALL FEED AND CROSS MAINS REGARDLESS OF SIZE AND ALL BRANCHLINES AND OTHER PIPING 2 1/2" AND LARGER.
- 4. THE DISTANCE BETWEEN THE LAST BRACE AND THE END OF THE PIPE SHALL NOT EXCEED 6 FT.
- 5. A 4-WAY BRACE SHALL BE PROVIDED AT ALL RISERS EXCEEDING 3'-0.
- 6. WHERE BUILDING PRIMARY MEMBERS EXCEED 40 FT. ON CENTER, LATERAL BRACES SHALL BE PERMITTED TO BE SPACED UP TO 50 FT. ON CENTER, AND THE DISTANCE BETWEEN THE LAST BRACE AND THE END OF THE PIPE SHALL BE PERMITTED TO BE EXTENDED TO 25FT.
- Y. THE LAST LENGTH OF PIPE AT THE END OF A FEED OR CROSS MAIN SHALL BE PROVIDED WITH A LATERAL BRACE.
- 8. LATERAL BRACES SHALL BE ALLOWED TO ACT AS LONGITUDINAL BRACES IF THE ARE WITHIN 24 IN. OF THE CENTER LINE OF THE PIPING BRACED LONGITUDINALLY FOR LINES 2 1/2" AND GREATER IN DIAMETER.
- 9. WHERE FLEXIBLE COUPLINGS ARE INSTALLED ON MAINS OTHER THAN AS REQUIRED IN 9.3.2, A LATERAL BRACE SHALL BE PROVIDED WITHIN 24 IN. OF EVERY OTHER COUPLING, BUT NOT MORE THAN 40 FT. ON CENTER.
- 10. LONGITUDINAL SWAY BRACING SPACED AT A MAXIMUM OF 80 FT. ON CENTER SHALL BE PROVIDED FOR FEED AND CROSS MAINS.
- 11. LONGITUDINAL BRACES SHALL BE PERMITTED TO SERVE AS LATERAL BRACES WHERE THEY ARE INSTALLED WITHIN 24 IN. OF THE PIPING THAT IS TO BE BRACED LATERALLY.
- THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE. BRANCHLINES SHALL BE RESTRAINED AT INTERVALS AS SPECIFIED ON SHEET **FP-D4**. BRANCHLINE RESTRAINTS SHALL BE INSTALLED WITHIN 6" OF A VERTICAL HANGER.

12. WHERE BRANCHLINES ARE INDIVIDUALLY SUPPORTED BY RODS EXCEEDING 6" MEASURED BETWEEN THE TOP OF THE PIPE AND

- 13. LATERAL SWAY BRACING SHALL BE PERMITTED TO BE OMITTED WHERE PIPES ARE INDIVIDUALLY SUPPORTED BY RODS LESS THAN 6 IN. LONG MEASURED BETWEEN THE TOP OF THE PIPE AND THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE.
- 14. CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING PER NFPA 13.

BUILDING RENDER



PLANS NOTE

THESE PLANS CONFORM TO THE CONTRACT DOCUMENTS WHICH INCLUDE THE OWNER/CONTRACTOR AGREEMENT, THE DRAWINGS,

STANDPIPE NOTES

- 1. STANDPIPE SYSTEM TO COMPLY WITH NFPA 14, AND ALL APPLICABLE STATE AND LOCAL CODES.
- 2. ALL HOSE CONNECTIONS SHALL BE 2 1/2".
- 3. ALL HOSE VALVES SHALL BE LISTED AND EQUIPPED WITH CAPS TO PROTECT THE HOSE THREADS.
- PRESSURE GAUGES SHALL BE INSTALLED ABOVE AND BELOW EACH ALARM CHECK VALVE, DRY PIPE VALVE, DELUGE VALVE, BACKFLOW PREVENTER, OR SYSTEM RISER CHECK VALVE WHERE SUCH DEVICES ARE PRESENT.
- PRESSURE GAUGES SHALL BE INSTALLED ON THE UPSTREAM AND THE DOWNSTREAM SIDES OF EVERY PRESSURE-REGULATING DEVICE INSTALLED IN ACCORDANCE WITH 7.2.4(6).
- 6. EACH FIRE DEPARTMENT CONNECTION SHALL BE DESIGNATED BY A SIGN, WITH LETTERS AT LEAST 1 IN. IN HEIGHT, THAT READS "STANDPIPE." FOR MANUAL SYSTEMS, THE SIGN SHALL ALSO INDICATE THAT THE SYSTEM IS MANUAL AND THAT IT IS EITHER WET OR
- IF AUTOMATIC SPRINKLERS ARE ALSO SUPPLIED BY THE FIRE DEPARTMENT CONNECTION, THE SIGN OR COMBINATION OF SIGNS SHALL INDICATE BOTH DESIGNATED SERVICES.

FIRE SPRINKLER NOTES

- 1. MAX. SPRINKLER SPACING FOR STANDARD SPRAY UPRIGHT & PENDENT SPRINKLERS IS 15', 225 FT² FOR LIGHT HAZARD.
- 2. MAX. SPRINKLER SPACING FOR STANDARD SPRAY UPRIGHT & PENDENT SPRINKLERS IS 15', 130 FT² FOR ORDINARY HAZARD.
- 3. MAX. SPRINKLER SPACING FOR RESIDENTIAL PENDENT SPRINKLERS IS **20'** WITHIN RESIDENTIAL AREAS.
- 4. MAX SPRINKLER SPACING FOR EXTENDED COVERAGE EC-11 HEADS IS 16'X16' WITHIN ORDINARY HAZARD AREAS.
- . STANDARD SPRAY UPRIGHT & PENDENT SPRINKLER DEFLECTORS SHALL BE LOCATED BETWEEN 1" & 6" BELOW STRUCTURAL MEMBERS, NO GREATER THAN 18" BELOW DECK, FOR OBSTRUCTED CONSTRUCTION.
- . STANDARD SPRAY UPRIGHT & PENDENT SPRINKLER DEFLECTORS SHALL BE LOCATED BETWEEN 1" & 12" BELOW FINISH CEILING FOR 📗 UNOBSTRUCTED CONSTRUCTION.
- RESIDENTIAL PENDENT SPRINKLER DEFLECTORS SHALL BE LOCATED BETWEEN 1.25" & 4" BELOW FINISH CEILING FOR UNOBSTRUCTED CONSTRUCTION.
- 8. STANDARD SPRAY UPRIGHT, PENDENT, AND SIDEWALL SPRINKLERS SHALL BE INSTALLED IN ACCORDANCE WITH THE OBSTRUCTIONS RULES OF NFPA 13, 8.6.5 & 8.7.5.
- RESIDENTIAL PENDENT SPRINKLERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS GUIDELINES, AND THE
- OBSTRUCTIONS RULES OF NFPA 13, 8.10.6.
- 0. SPRINKLERS SHALL BE PERMITTED TO BE OMITTED FROM CEILING POCKETS WHERE THE REQUIREMENTS OF NFPA 13, 8.6.7.2 ARE MET.

OVERALL PROJECT SPRINKLER LEGEND

SYM. | SIN QUANTITY (A) TY323 TY-FRB QUICK TYCO PENDENT | 155°F | WHITE | RECESSED 510 5.6 TY323 TYCO TY-FRB QUICK PENDENT 200°F WHITE RECESSED 265 (X) TY2234 1235 TYCO LFII QUICK PENDENT 155°F WHITE RECESSED 4.9 TY-FRB | QUICK SIDEWALL 155°F WHITE RECESSED TY-FRB QUICK SIDEWALL 200°F WHITE RECESSED TY-FRB | QUICK SIDEWALL 155°F WHITE RECESSED EC-11 |STANDARD| N/AUPRIGHT | 200°F | BRASS TY313 TY-FRB QUICK UPRIGHT | 200°F | BRASS N/AAPTY2190 TYCO QUICK UPRIGHT | 200°F | BRASS | N/ATY3183 TYCO QUICK 158 UPRIGHT | 212°F | BRASS | QUICK N/A287 TY3199 UPRIGHT 200°F BRASS CC-3 TRASH CHUTE BY OTHERS TOTAL = 2661

DESIGN NOTES (AS APPLICABLE)

- SPRINKLER SHALL BE PERMITTED TO BE LOCATED NOT MORE THAN 9 FEET OFF OF ANY SINGLE WALL IN SMALL ROOMS PER NFPA 13, 8.6.3.2.4 AND AS DEFINED BY 3.3.20.
- SPRINKLERS HAVE BEEN OMITTED FROM BATHROOMS NOT EXCEEDING 55 SQ. FT. PER NFPA 13, 8.15.8.1.1.

CHARLOTTE, NC 28203

VP ENGINEERING

CHARLOTTE, NC 28203

1414-C SOUTH TRYON STREET

PLUMBING/MECHANICAL

(704)372-7755

(704)372-7755

- PER NFPA 13 8.15.1.2.7.

	PROJECT TEAM	PROJECT IN	NFORMATION
EVELOPER	HIGHBRIDGE PROPERTIES 10069 WEST RIVER STREET	PROJECT NAME:	LINCOLN 40 STUDENT HOUSING
	SUITE 5C TRUCKEE, CA 96161 (415)847-7011	PROJECT ADDRESS:	1111 OLIVE DRIVE, DAVIS, CA
RCHITECT	HUMPHREYS & PARTNERS ARCHITECTS 2359 SE BRISTOL STREET, SUITE 310 NEWPORT BEACH, CA 92660	EXISTING ZONING:	- EAST OLIVE DRIVE RESIDENTIAL MEDIUM DENSITY (RMD) & EAST OLIVE MULTIPLE USE (EQMU)
	CUNNINGHAM ENGINEERING	PROPOSED ZONING:	RESIDENTIAL MEDIUM HIGH DENSITY (RMHD)
IVIL NGINEERIN	DAVIS OFFICE 2940 SPAFFORD STREET. SUITE 200	SITE AREA (GROSS):	<u>249,390 SF</u>
	DAVIS, CA 95618 (530)758-2026	TOTAL # OF DWELLING UNITS:	130
TRUCTURAL	WRIGHT ENGINEERS	CONSTRUCTION TYPE:	TYPE IIIA
RUCTURAL	2 VENTURE SUITES 200 IRVINE, CA 92618 (949)477-4001	OCCUPANCY:	R-2 B A-3 S
LECTRICAL	VP ENGINEERING 1414-C SOUTH TRYON STREET	PROPOSED BUILDING HEIGHT:	5 STORIES / 59'6"

TOTAL	BUIL	DIN	G	Α	R	E	Α	S
L	EVEL		ARE!	Ι				

LEVEL	AREA
FIRST FLOOR	51.773 SF
SECOND FLOOR	55,495 SF
THIRD FLOOR	55,495 SF
FOURTH FLOOR	48,539 SF
FIFTH FLOOR	38,088 SF
TOTAL	249,390 SF

SCOPE OF WORK

PROJECT CONSISTS OF 5 STORY RESIDENTIAL UNITS COMPRISING OF (130) APARTMENTS ALONG WITH AMENITIES SUCH AS BIKE ROOM, PET SPA, POOL CLUB HOUSE AND LOUNGES. INCLUDING STANDPIPE SYSTEM AND FIRE PUMP.

PROJECT LOCATION: 1111 OLIVE DRIVE, DAVIS CA.

WORK SHALL BEGIN AT THE FLANGE LOCATED IN FIRE PUMP ROOM, 1 FT. OFF FINISH -. ALL SUPERVISION, LABOR, EQUIPMENT, SUPPLIES, AND MATERIALS NECESSARY TO PROVIDE A COMPLETE FIRE SPRINKLER SYSTEM FOR THE PROJECT. THIS EXCLUDES FIRE PROTECTION UNDERGROUND PIPING AND BACKFLOW PREVENTER.

SHEET INDEX FP-0.1 COVER - NOTES & INFORMATION

FP-0.2 NOTES & INFORMATION FP-0.3 FIRE WATER SITE PLAN FP-0.4 HOSE REACH PLANS FIRST & SECOND FLOORS FP-0.5 HOSE REACH PLANS THIRD & FOURTH FLOORS FP-0.6 HOSE REACH PLANS FIFTH FLOOR & ROOF PLAN FP-0.7 ENLARGED FIRE PUMP ROOM FP-1.1 FIRST FLOOR - SYSTEM PIPING PLAN FP-1.2 FIRST FLOOR - SYSTEM PIPING PLAN FP-1.3 FIRST FLOOR - REFLECTED CEILING PLAN FP-1.4 FIRST FLOOR - REFLECTED CEILING PLAN FP-2.1 SECOND FLOOR - SYSTEM PIPING PLAN FP-2.2 SECOND FLOOR - SYSTEM PIPING PLAN FP-2.3 SECOND FLOOR - REFLECTED CEILING PLAN FP-2.4 SECOND FLOOR - REFLECTED CEILING PLAN

FP-3.1 THIRD FLOOR - SYSTEM PIPING PLAN FP-3.2 THIRD FLOOR - SYSTEM PIPING PLAN FP-3.3 THIRD FLOOR - REFLECTED CEILING PLAN FP-3.4 THIRD FLOOR - REFLECTED CEILING PLAN FP-4.1 FOURTH FLOOR - SYSTEM PIPING PLAN

FP-4.2 FOURTH FLOOR - SYSTEM PIPING PLAN FP-4.3 FOURTH FLOOR - REFLECTED CEILING PLAN FP-4.4 FOURTH FLOOR - REFLECTED CEILING PLAN FP-5.1 FIFTH FLOOR - SYSTEM PIPING PLAN FP-5.2 FIFTH FLOOR - REFLECTED CEILING PLAN

FP-D1.1 BUILDING SECTION FP-D1.2 STAIR SECTIONS FP-D1.3 STAIR SECTIONS FP-D2 PIPING DETAILS

FP-D2.1 ATTIC SPRINKLER DETAILS FP-D3 HANGER & BRACING DETAILS FP-D4 SWAY BRACING CALCULATIONS

ORIENTATION

STAMP

PROJECT

LINCOLN 40

STUDENT

HOUSING

1111 OLIVE DRIVE, DAVIS, CA

CUSTOMER

HUMPHREYS &

PARTNERS NEWPORT BEACH, CA

APPROVALS

FIRE DEPARTMENT

LOCAL FIRE MARSHALL 23 RUSSELL BOULEVARD, DAVIS CA95616 PHONE:(530) 757-5682

INSPECTIONS

REVISIONS

DESCRIPTION

FIRE REVIEW COMMENTS

CITY SUPPLY

STATIC PRESSURE:

RESIDUAL PRESSURE

FLOW @ RESIDUAL:

TEST LOCATION:

TESTING AGENCY:

WELD INSPECTION:

(503)757-5682

42 PSI

1250 GPM

1230 OLIVE DRIVE

1230 OLIVE DRIVE

SCALE NOT TO SCALE

DESCRIPTION COVER PAGE

NOTES & INFORMATION SHEET NUMBER

JOB NUMBER: DRAWN BY: . VANGAMMEREN

CHECKED BY: E. JOHNSON PLAN DATE: PRINT DATE: 05/18/2020 05/18/2020

FIRE PUMP NOTES

- 1. FIRE PUMP SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 20, 2016 EDITION.
- 2. THE COMPLETE FIRE PUMP UNIT SHALL BE FIELD ACCEPTANCE TESTED FOR PROPTER PERFORMANCE IN ACCORDANCE WITH THE PROVISIONS OF NFPA 20.
- 3. PUMP SHALL BE DEDICATED TO AND LISTED FOR FIRE PROTECTION SERVICE.
- 4. PUMP SHALL BE PROVIDED WITH NAMEPLATE.

OR PUMP HOUSE, WHERE REQUIRED, ABOVE 40° F.

- 5. A PRESSURE GAUGE HAVING A DIAL NOT LESS THAN 3.5" IN DIAMETER SHALL BE CONNECTED NEAR THE DISCHARGE AND SUCTION CASTINGS WITH A NOMINAL .25" GAUGE VALVE. THE DIAL SHALL INDICATE PRESSURE TO AT LEAST TWICE THE RATED WORKING PRESSURE OF THE PUMP, BUT NOT LESS THAN 200 PSI FOR THE DISCHARGE GAUGE.
- 6. WHERE THE MINIMUM PUMP SUCTION PRESSURE IS BELOW 20 PSI UNDER ANY FLOW CONDITION, THE SUCTION GAUGE SHALL BE A COMPOUND PRESSURE AND VACUUM PRESSURE.
- AN AUTOMATIC RELIEF VALVE LISTED FOR FIRE PROTECTION SERVICE SHALL BE INSTALLED AND SET BELOW THE SHUTOFF PRESSURE AT MINIMUM EXPECTED SUCTION PRESSURE.
- 8. AN APPROVED OR LISTED SOURCE OF HEAT SHALL BE PROVIDED FOR MAINTAINING THE TEMPERATURE OF A PUMP ROOM
- 9. ARTIFICIAL & EMERGENCY LIGHTING SHALL BE PROVED IN THE PUMP ROOM OR PUMP HOUSE.
- 10. PROVISIONS SHALL BE MADE FOR VENTILATION OF A PUMP ROOM OR PUMP HOUSE.

LEVEL AFTER THE MAXIMUM SYSTEM DEMAND AND DURATION HAVE BEEN SUPPLIED.

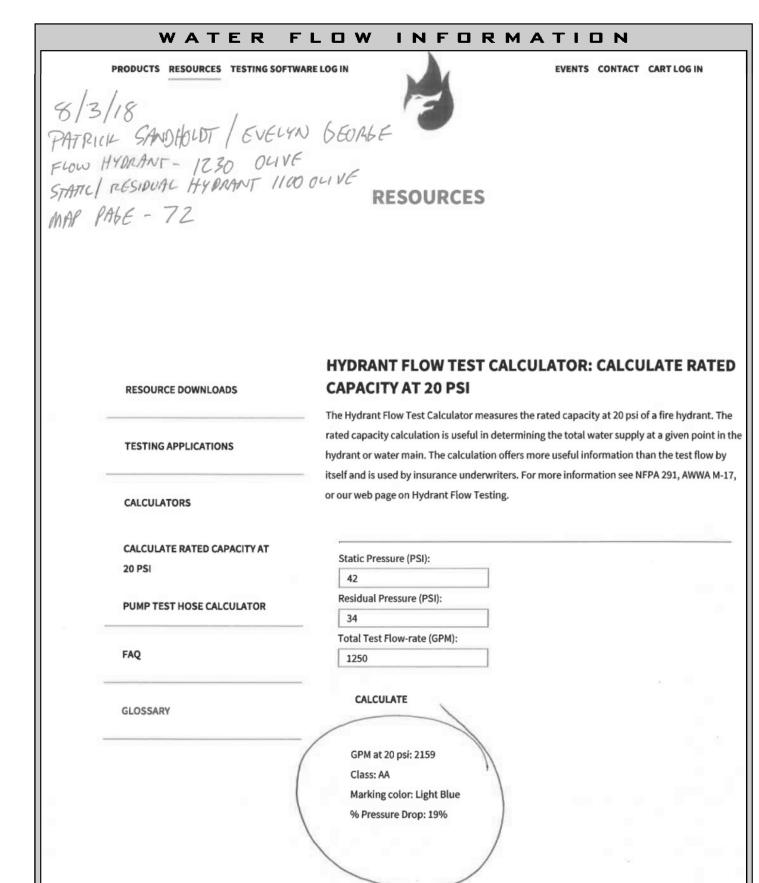
- 11. PIPE, FITTINGS, HANGERS AND SEISMIC BRACING FOR FIRE PUMP UNIT, INCLUDING SUCTION AND DISCHARGE PIPING, SHALL
- COMPLY WITH THE APPLICABLE REQUIREMENTS OF NFPA 13. 12. THE GAUGE PRESSURE AT THE SUCTION FLANGE SHALL NOT DROP BELOW -3PSI WITH THE TANK AT ITS LOWEST WATER
- 13. FOR PUMP TAKING SUCTION FROM A STORED WATER SUPPLY, A VORTEX PLATE SHALL BE INSTALLED AT THE ENTRANCE TO
- THE SUCTION PIPE.
- 14. PUMP DISCHARGE PIPING SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH NFPA 13 AND NFPA 24.
- 16. TEST OUTLET CONTROL VALVES SHALL BE SUPERVISED IN THE CLOSED POSITION.

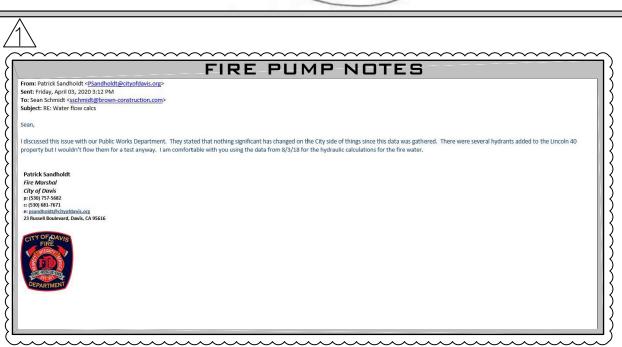
18. ALL ELECTRICAL EQUIPMENT AND INSTALLED METHODS SHALL COMPLY WITH NFPA 70.

- 17. TWO CHECK VALVES SHALL BE INSTALLED IN EACH PRESSURE SENSING LINE LOCATED AT LEAST 5 FEET APART WITH A
- 0.09375 HOLE IN THE CLAPPER TO SERVE AS DAMPENING.

15. THE SUCTION VALVE AND DISCHARGE VALVE SHALL BE SUPERVISED IN THE OPEN POSITION.

- 19. ELECTRIC DRIVES FOR PUMP SHALL BE INSTALLED IN COMPLIANCE WITH CHAPTER 9 OF NFPA 20.
- 20. ELECTRIC DROVE CONTROLLERS AND ACCESSORIES SHALL BE INSTALLED IN COMPLIANCE WITH CHAPTER 10 OF NFPA 20.





Incompatible Products - Lubrizol **CPVC Incompatible Products**

To avoid damage to the pipe and fittings, ancillary construction products coming into direct contact with FlowGuard, BlazeMaster, Corzan, or products made with TempRiteTechnology must be chemically compatible. Lubrizol recommends that the compatibility of ancillary products be confirmed with that product's manufacturer prior to use.

A product's absence from this list does not mean that it is compatible. Products in this list are

CPVC COMPATIBILITY

The following products have been found to be incompatible with FlowGuard, BlazeMaster, Corzan, and products made with

designated with numerals to clarify the known compatibility hazards associated with them, as

Please note:

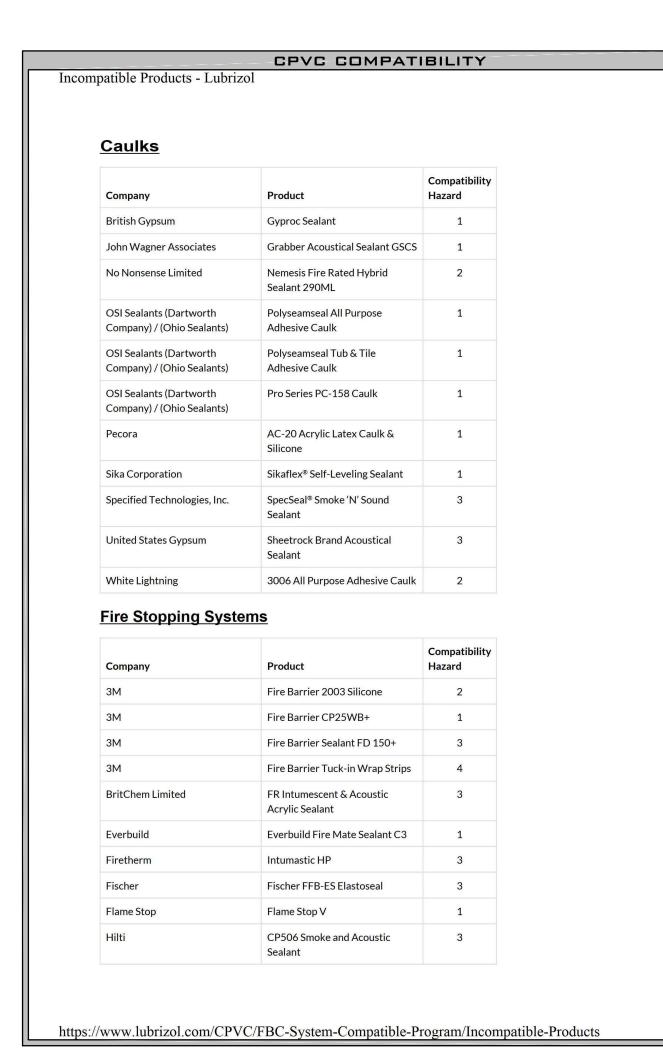
- These products were reported to have been used at the site of one or more failed piping systems, and upon further investigation were found to contain the same ingredient(s) which were identified as having caused or contributed to the reported failure.
- These products have been determined to be incompatible based on laboratory testing conducted by Lubrizol.
- These products have been determined to be incompatible based on compositional information found in the manufacturer's labeling or published literature. One or more ingredients reported by the manufacturer is the same as or chemically similar to ingredients identified as having caused or contributed to piping system failure with similar products (the products designated with a 2).
- These products have recommendations in their manufacturer's published literature not to use them with CPVC. This may not necessarily reflect their compatibility status. They are nevertheless listed here because, as reported by the manufacturer, they should not be used with CPVC.

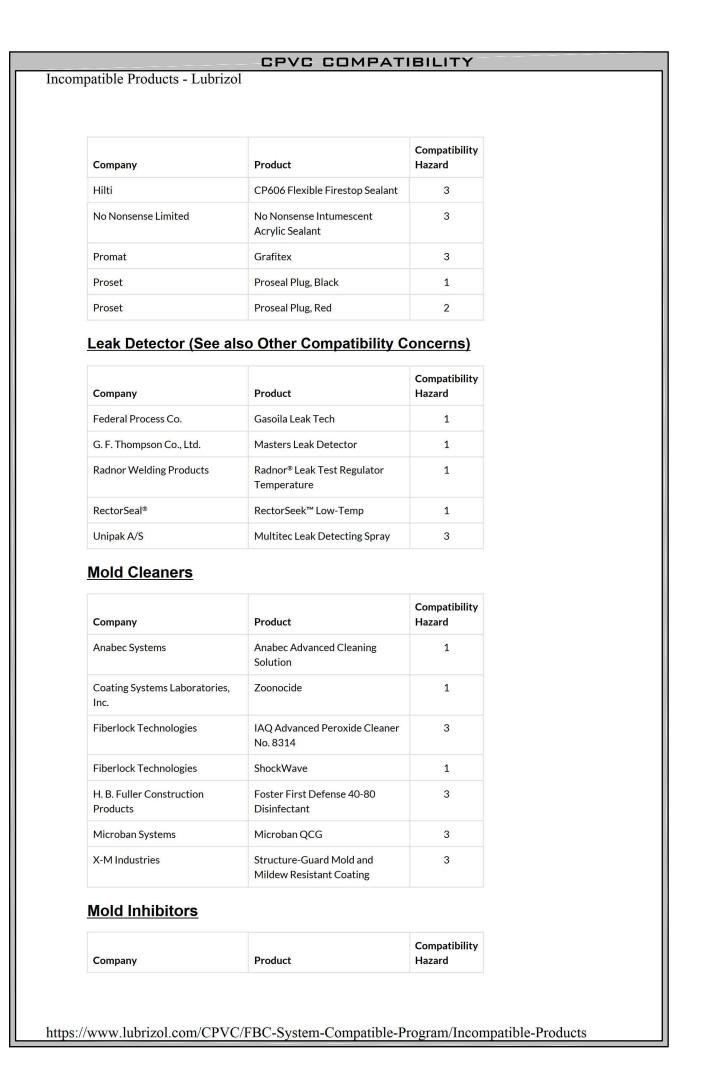
INCOMPATIBLE PRODUCTS

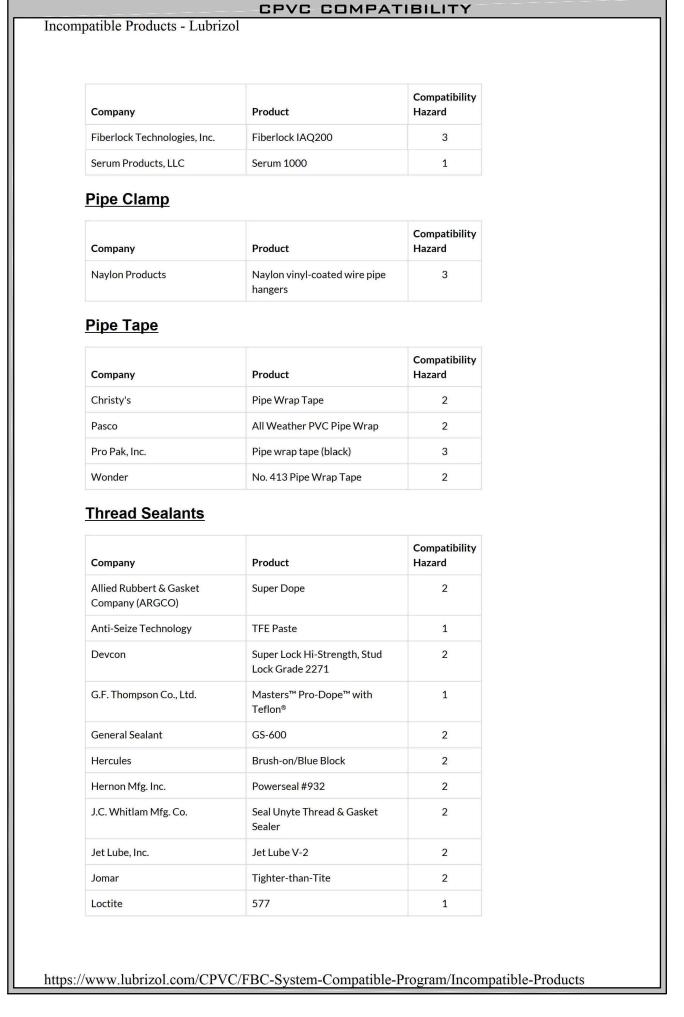
Do not use the products below with FlowGuard pipe & fittings, BlazeMaster fire sprinkler systems, Corzan industrial systems, and products made with TempRite Technology. If you have any questions about chemical compatibility, contact the product manufacturer for more information.

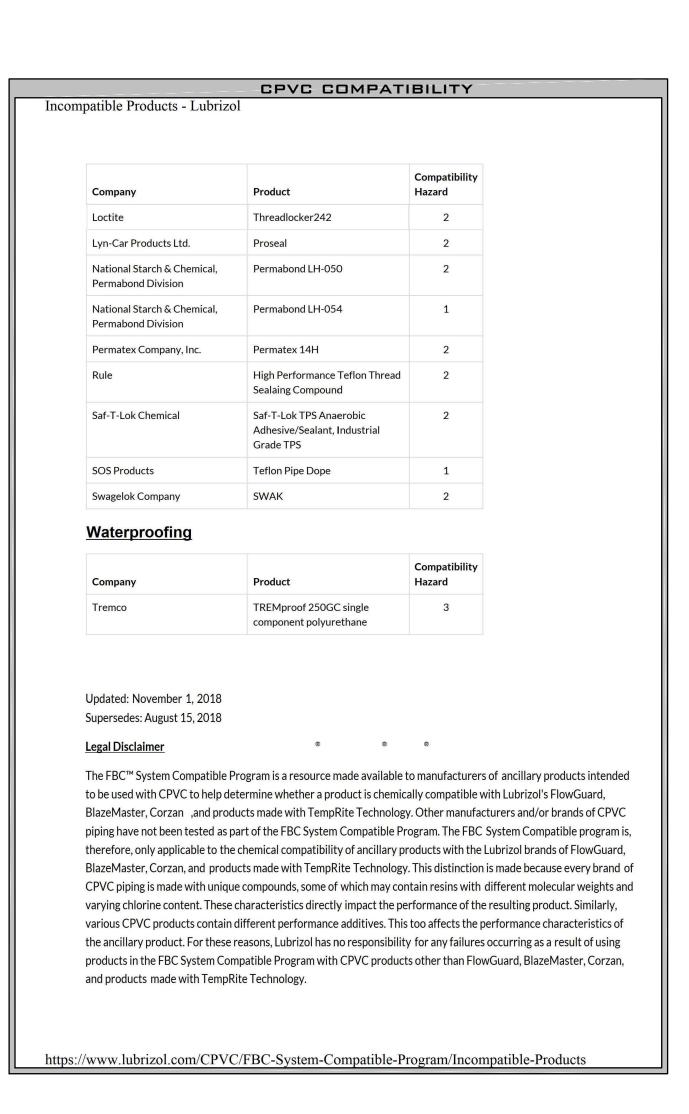
Antimicrobial Coatings - refer to specific manufacturer listing data.

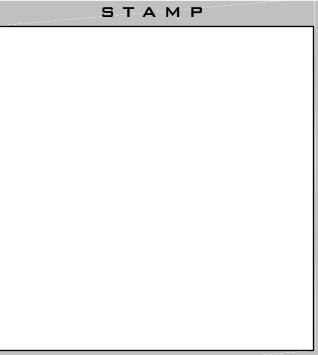
https://www.lubrizol.com/CPVC/FBC-System-Compatible-Program/Incompatible-Products











PROJECT

LINCOLN 40 STUDENT HOUSING

1111 OLIVE DRIVE, DAVIS, CA

HUMPHREYS &

PARTNERS NEWPORT BEACH, CA

CUSTOMER

APPROVALS

FIRE DEPARTMENT LOCAL FIRE MARSHALL

23 RUSSELL BOULEVARD, DAVIS CA95616 PHONE:(530) 757-5682

INSPECTIONS PHONE: (503)757-5682 WELD INSPECTION:

> REVISIONS DATE

DESCRIPTION FIRE REVIEW COMMENTS

CITY SUPPLY

42 PSI

34 PSI

1250 GPM

8/3/18

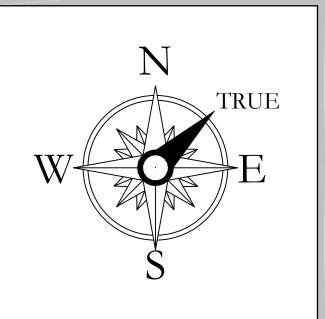
STATIC PRESSURE: RESIDUAL PRESSURE:

TEST LOCATION: 1230 OLIVE DRIVE

FLOW @ RESIDUAL:

TEST DATE: TESTING AGENCY:

HYDRANT #: 1230 OLIVE DRIVE DRIENTATION



NOT TO SCALE

DESCRIPTION

NOTES & INFORMATION

SHEET NUMBER

FP-0.2

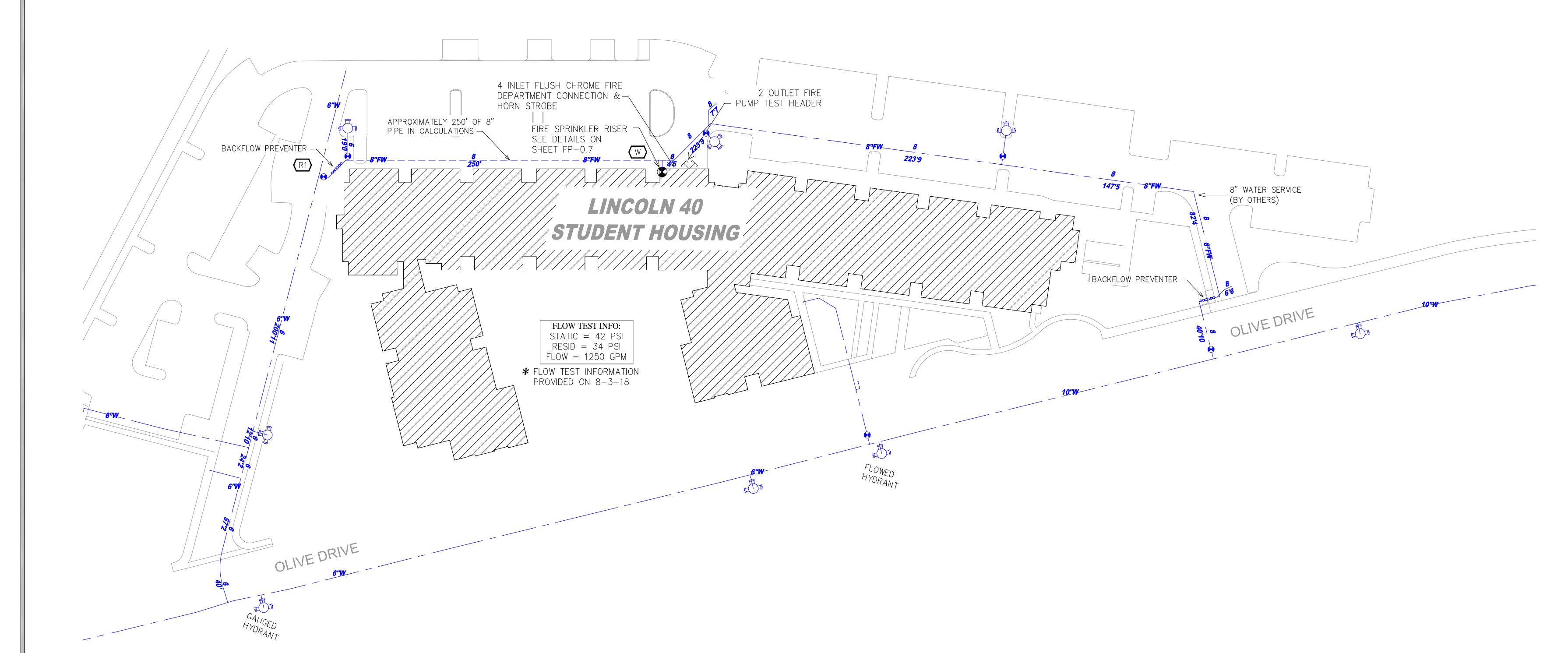
JOB NUMBER: DRAWN BY: E. JOHNSON . VANGAMMEREN PLAN DATE:

CHECKED BY: PRINT DATE: 05/18/2020 05/18/2020

VICINITY MAP

UNDERGROUND NOTE

ALL UNDERGROUND PIPING IS BY OTHERS AND IS SHOWN FOR HYDRAULIC REFERENCE ONLY. SEE ARCHITECTURAL & UTILITY DRAWINGS.



STAMP

PROJECT

LINCOLN 40 STUDENT HOUSING

1111 OLIVE DRIVE, DAVIS, CA

CUSTOMER HUMPHREYS &

PARTNERS NEWPORT BEACH, CA

APPROVALS

FIRE DEPARTMENT LOCAL FIRE MARSHALL 23 RUSSELL BOULEVARD, DAVIS CA95616 PHONE:(530) 757-5682

INSPECTIONS

PHONE: (503)757-5682 WELD INSPECTION:

REVISIONS

DATE DESCRIPTION

FIRE REVIEW COMMENTS

34 PSI

1250 GPM

8/3/18

CITY SUPPLY

STATIC PRESSURE:

| RESIDUAL PRESSURE:

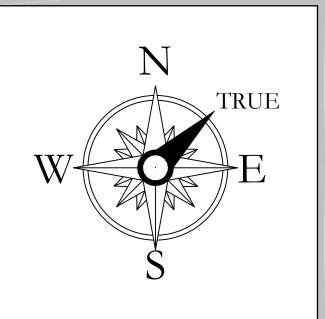
FLOW @ RESIDUAL:

TEST LOCATION: 1230 OLIVE DRIVE

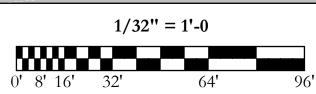
TEST DATE:

TESTING AGENCY:

HYDRANT #: 1230 OLIVE DRIVE ORIENTATION



SCALE



DESCRIPTION

FIRE WATER SITE PLAN

SHEET NUMBER



JOB NUMBER: **DRAWN BY:** J. VANGAMMEREN

CHECKED BY: PRINT DATE: PLAN DATE: 05/18/2020 05/18/2020



STAMP

LINCOLN 40 STUDENT HOUSING

1111 OLIVE DRIVE, DAVIS, CA

APPROVALS

FIRE DEPARTMENT LOCAL FIRE MARSHALL 23 RUSSELL BOULEVARD, DAVIS CA95616 PHONE:(530) 757-5682

(503)757-5682

DATE DESCRIPTION

1 FIRE REVIEW COMMENTS

CITY SUPPLY

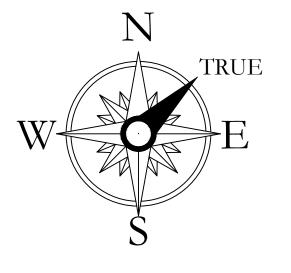
| RESIDUAL PRESSURE:

FLOW @ RESIDUAL: 1250 GPM

1230 OLIVE DRIVE

1230 OLIVE DRIVE

8/3/18



SCALE

1/16'' = 1'-0

DESCRIPTION

SHEET NUMBER

CHECKED BY: E. JOHNSON **PRINT DATE:** 05/18/2020

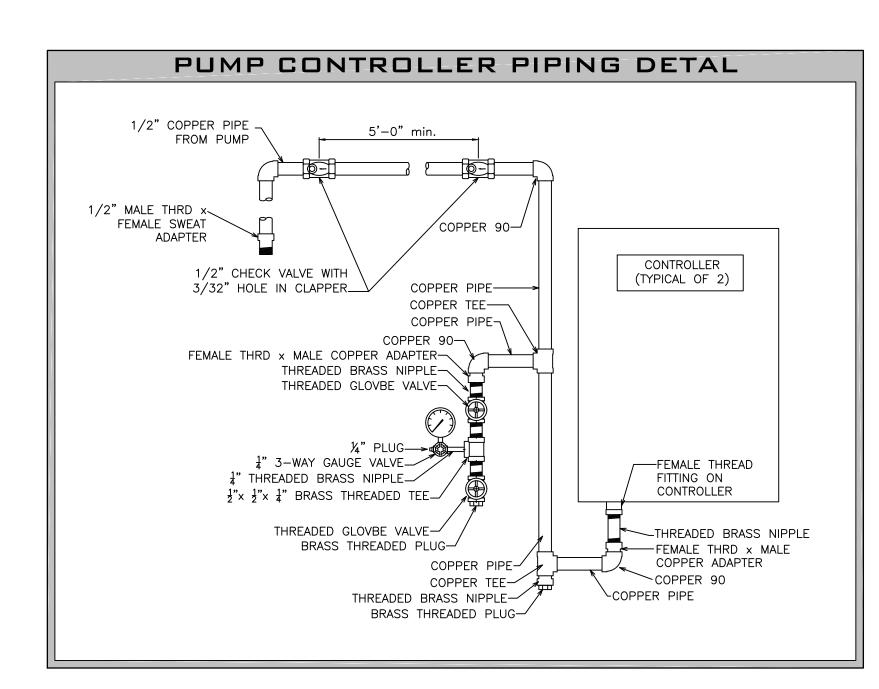


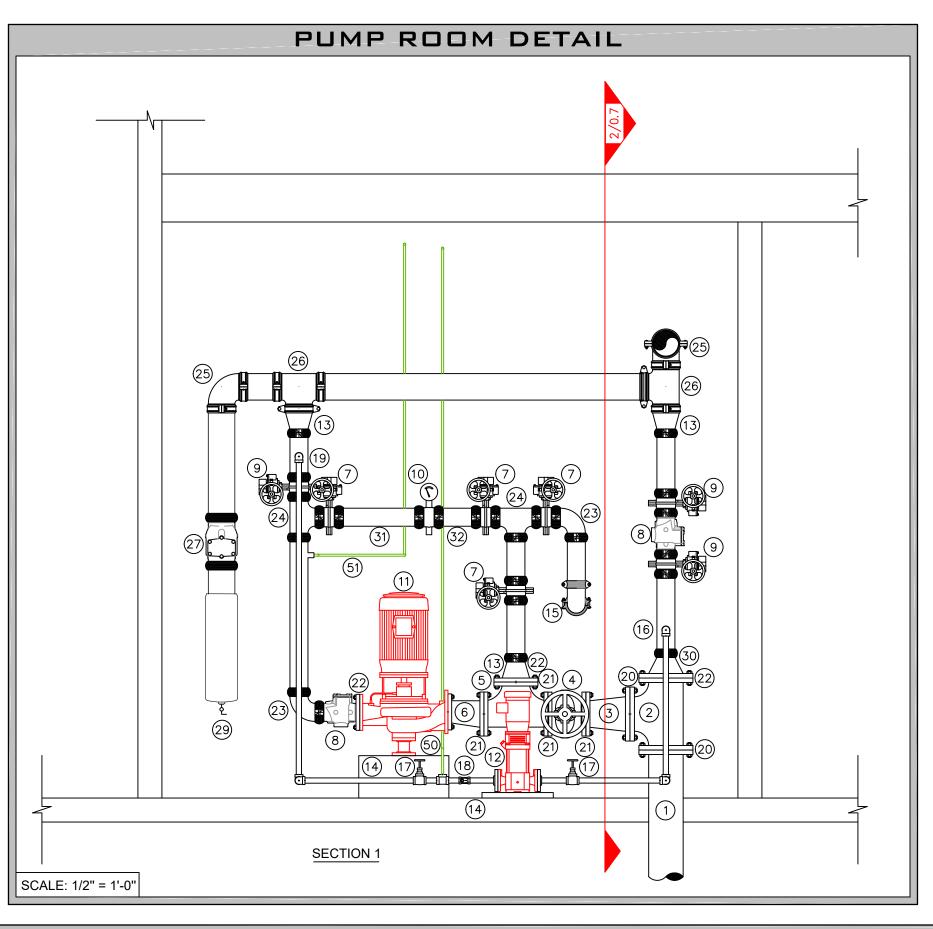


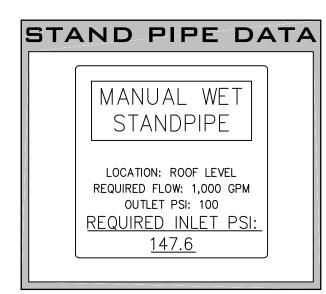
FI	RE PUMP DATA
MAKE	PENTAIR
TYPE	INLINE
MODEL	4-383-9
SIZE	4X5X9
RATED FLOW	400.0 GPM
RATED PRESSURE	100.0 PSI
RPM	3560
ROTATION	RIGHT HANDED
SUCTION SIZE	5.00 INCH
DISCHARGE SIZE	4.00 INCH
IMPELLER DIAMETER	7.81 INCH
ESTIMATED WEIGHT	1262 LB.

	DRIVER DATA
ТҮРЕ	ELECTRIC
POWER	40.00 HP
PHASE	3 PHASE
HERTZ	60 HZ
VOLTS	200V
RPM	3560
ESTIMATED WEIGHT	349 LB.
V	

JOCK	EY PUMP DATA
MAKE	PENTAIR
MODEL	PVM1-10
FLOW RATING	5.00 GPM
SUCTION SIZE	1.25 INCH
DISCHARGE SIZE	1.25 INCH
POWER	1.50 HP
PHASE	3 PHASE
VOLTS	200

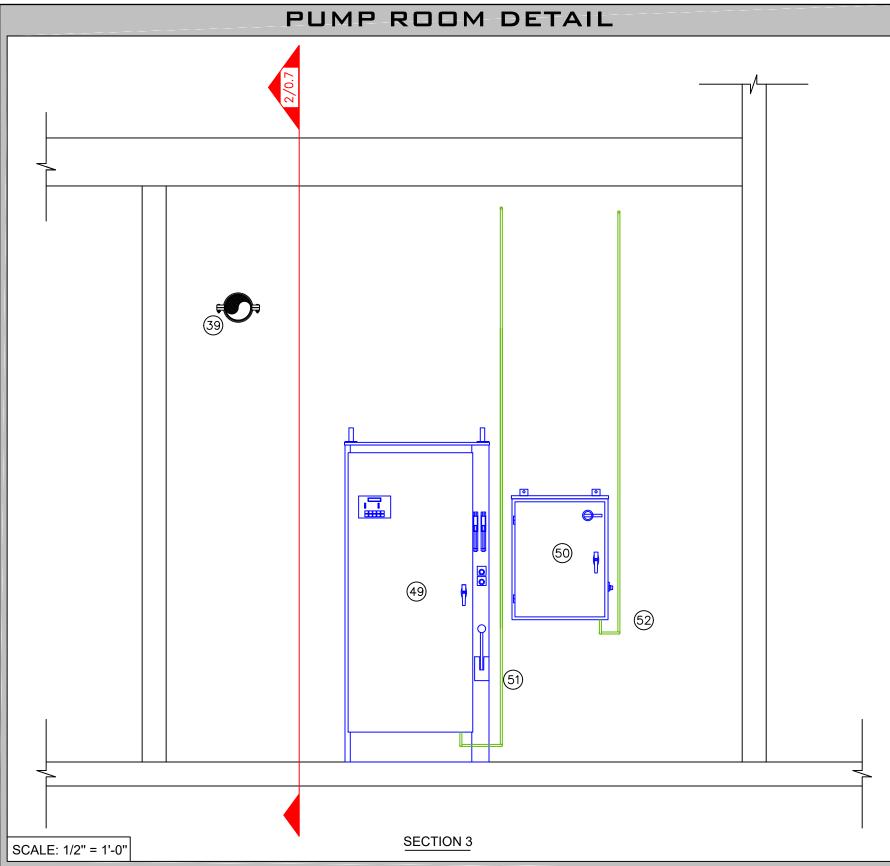


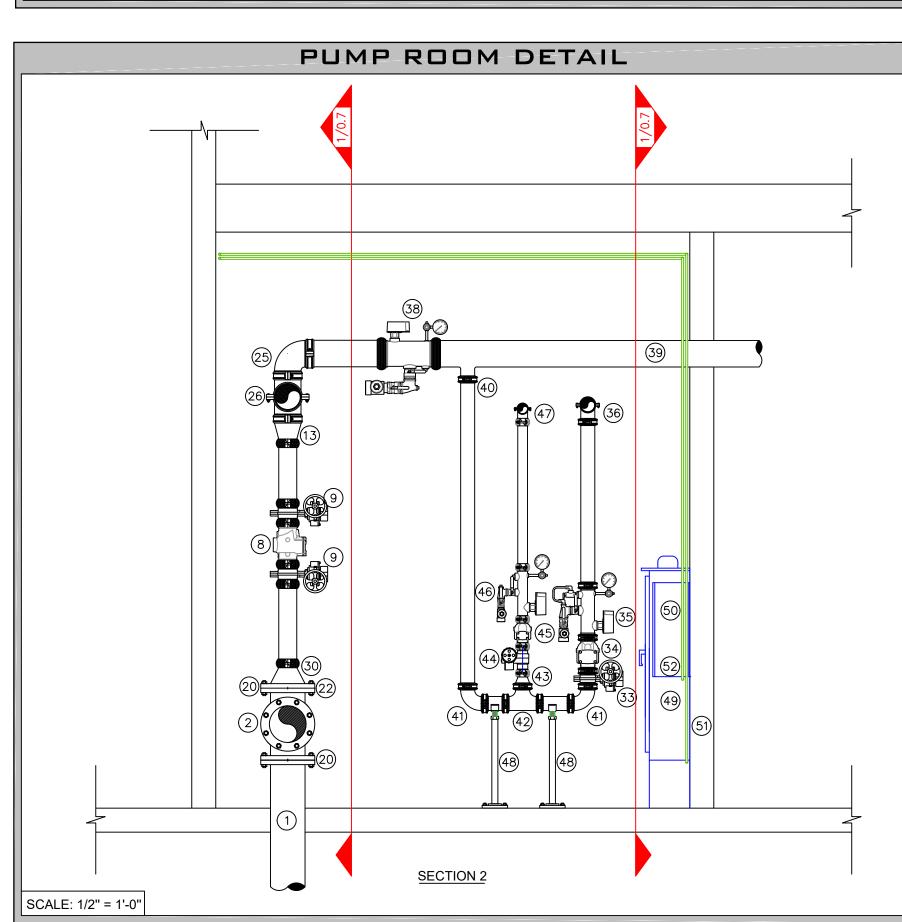


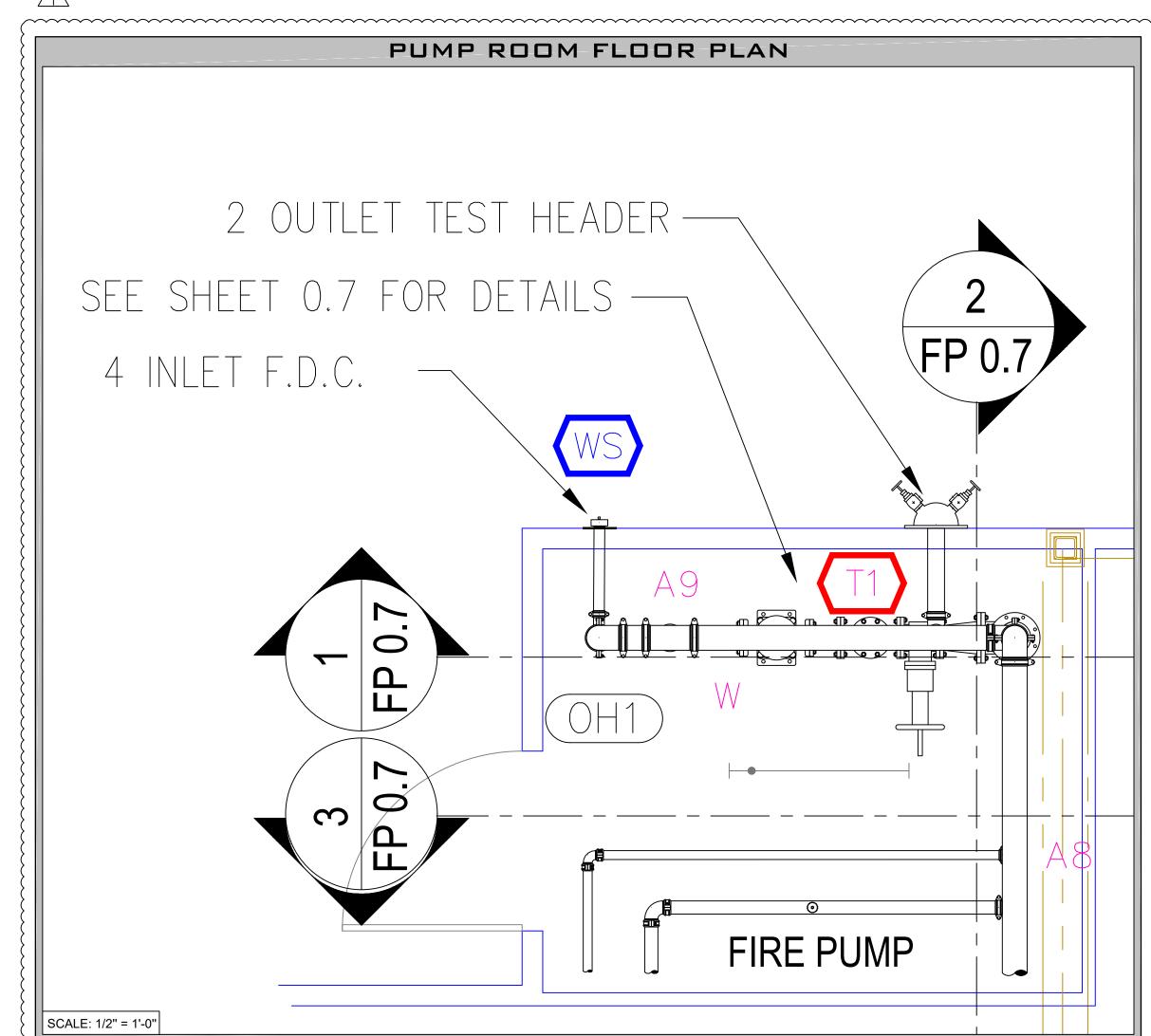


FIRE PUMP C	ONTROL PANEL DATA
MAKE	TORNATECH
MODEL	GPA
VOLTAGE	208V
MIN. HP	40 HP
MAX. HP	60 HP
REMOTE ALARMS	PHASE REVERSAL, MOTOR RUN, FAIL TO START

VALVE MONITORING, WATER-FLOW ALARM, AND TROUBLE SIGNALS SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED CENTRAL STATION. THIS WORK IS DONE BY OTHERS.







SCA	ALE: 1/2" = 1'-0"
=	
	PUMP ROOM LEGEND
#	DESCRIPTION
1.	8" UNDERGROUND WATER SERVICE (BY OTHERS)
2.	8" FLANGED TEE
3.	8"x6" FLANGED REDUCER
+. 5.	6" GATED OS&Y VALVE W/TAMPER (NORMALLY OPEN) 6" FLANGED TEE
). 	6" X 5" FLANGED TEE
7.	4" GROOVED BUTTERFLY VALVE w/ TAMPER (NORMALLY CLOSED)
3.	4" GROOVED CHECK VALVE
).	4" GROOVED BUTTERFLY VALVE w/ TAMPER (NORMALLY OPEN)
0.	4" FLOW METER
1.	AURORA FIRE PUMP 400gpm @ 100psi
2.	AURORA JOCKEY PUMP
3. 4.	6"x4" GROOVED CONC. REDUCER HOUSEKEEPING PAD
5 .	TO FIRE PUMP TEST HEADER
6.	1½" FEED TO JOCKEY PUMP
7.	1½" OS&Y CONTROL VALVE w/TAMPER
8.	1 1/4" CHECK VALVE
9.	1 ¼" FROM JOCKEY PUMP
0.	8" FLANGE PACK
1.	6" FLANGE PACK CROOVE V ELANGE ADAPTOR
2. 3.	GROOVE X FLANGE ADAPTOR 4" GROOVED 90
3. 4.	4" GROOVED 70 4" GROOVED TEE
5.	6" GROOVE 90
6.	6" GROOVE TEE
7.	6" GROOVED CHECK VALVE
8.	6" X 4 WAY F.D.C.
9.	BALL DRIP 8" X 4" GROOVED BELL REDUCER
0.	5 PIPE DIAMETERS MINIMUM
32.	2 PIPE DIAMETERS MINIMUM
3.	3" GROOVED BUTTERFLY VALVE w/ TAMPER (NORMALLY OPEN)
4.	3" GROOVED CHECK VALVE
5.	3" GROOVED COMMERCIAL RISER MANIFOLD w/ FLOW SWITCH, PRESSURE GAUGE, & TEST AND DRAIN
6.	3" TO ZONE 1.1 WET SYSTEM
7.	6" GROOVED BUTTERFLY VALVE w/ TAMPER (NORMALLY OPEN)
8. 9.	6" GROOVED COMMERCIAL RISER MANIFOLD w/ FLOW SWITCH, PRESSURE GAUGE, & TEST AND DRAIN 6" TO COMBINED STANDPIPE SYSTEM
9. 0.	3" TO 1ST FLOOR ISOLATION VALVES
1.	3" GROOVED 90
2.	3" GROOVED TEE
3.	3" X 2" GROOVED CONC. REDUCER
4.	2" GROOVED BUTTERBALL VALVE
5.	2" GROOVED CHECK VALVE
5.	2" GROOVED COMMERCIAL RISER MANIFOLD w/ FLOW SWITCH, PRESSURE GAUGE, & TEST AND DRAIN
8.	2" TO ZONE 2.1 WET SYSTEM PIPE STAND
0. 9.	FIRE PUMP CONTROLLER / TRANSFER SWITCH
0.	JOCKEY PUMP CONTROLLER
1.	FIRE PUMP SENSING LINE (SEE DETAIL ON THIS PAGE FOR MORE INFO)
2.	JOCKEY PUMP SENSING LINE (SEE DETAIL ON THIS PAGE FOR MORE INFO)

STAMP

PROJECT

LINCOLN 40 STUDENT HOUSING

1111 OLIVE DRIVE, DAVIS, CA

CUSTOMER

HUMPHREYS & PARTNERS
NEWPORT BEACH, CA

APPROVALS

FIRE DEPARTMENT

LOCAL FIRE MARSHALL

23 RUSSELL BOULEVARD, DAVIS CA95616

PHONE:(530) 757-5682

INSPECTIONS
PHONE:

(503)757-5682 WELD INSPECTION:

REVISIONS

DATE DESCRIPTION

1 FIRE REVIEW COMMENTS

CITY SUPPLY

34 PSI

1250 GPM

8/3/18

STATIC PRESSURE:

RESIDUAL PRESSURE:

FLOW @ RESIDUAL:

TEOW WE RESIDENCE.

TEST LOCATION:
1230 OLIVE DRIVE

TEST DATE:

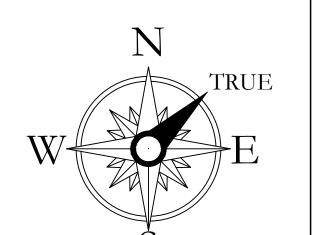
TEST DATE:

TESTING AGENCY:

HYDRANT #:

1230 OLIVE DRIVE

RIENTATION



SCALE

NOT TO SCALE

DESCRIPTION

ENLARGED FIRE PUMP PLAN

SHEET NUMBER

FP-0.7

JOB NUMBER:

05/18/2020

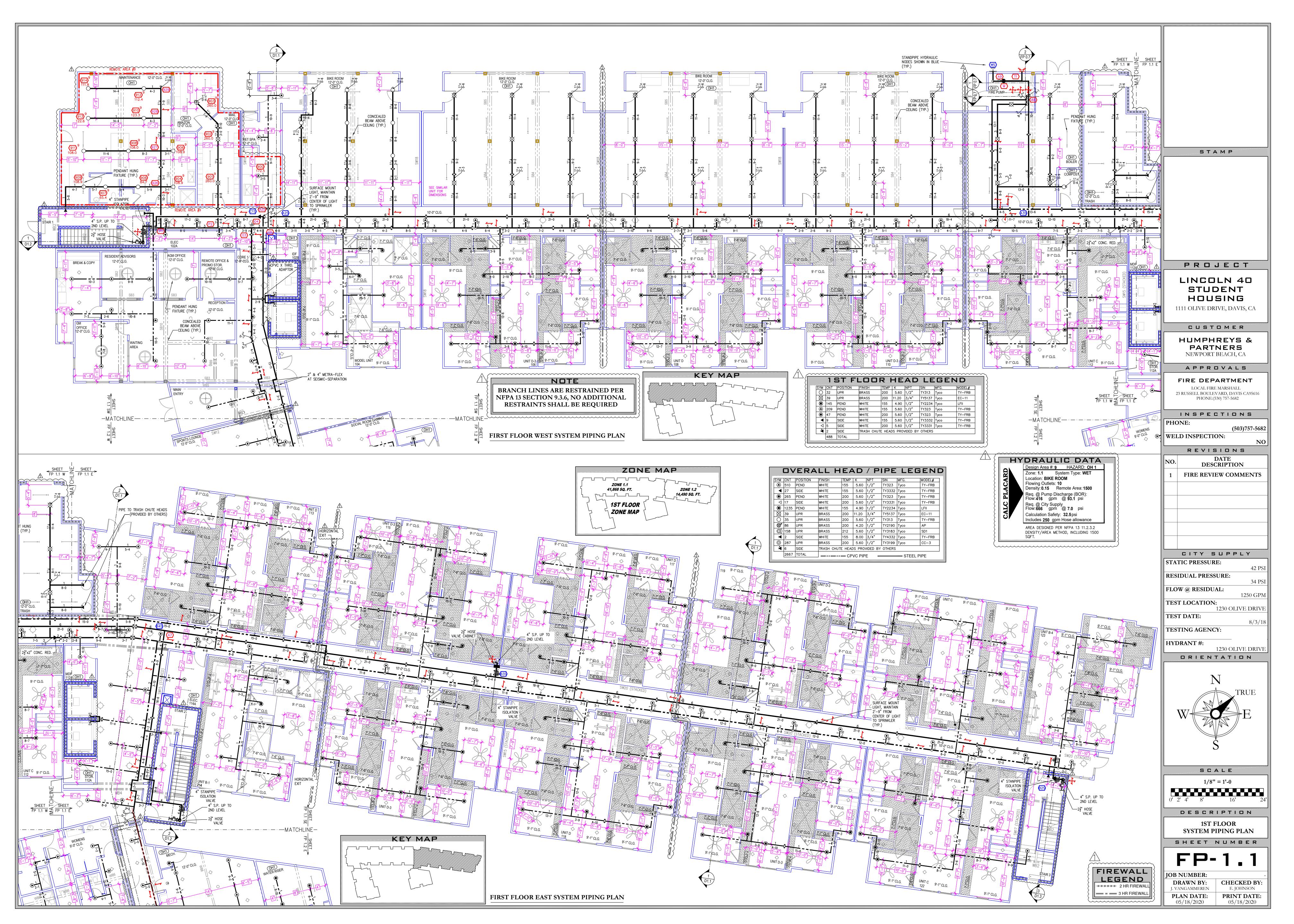
JOB NUMBER:

DRAWN BY:
J. VANGAMMEREN

PLAN DATE:

PRINT DATE:

05/18/2020





STAMP

PROJECT

LINCOLN 40 STUDENT HOUSING

1111 OLIVE DRIVE, DAVIS, CA

HUMPHREYS & PARTNERS

CUSTOMER

.

NEWPORT BEACH, CA

APPROVALS

FIRE DEPARTMENT

LOCAL FIRE MARSHALL

23 RUSSELL BOLLEVARD, DAVIS CA95614

23 RUSSELL BOULEVARD, DAVIS CA95616 PHONE:(530) 757-5682

INSPECTIONS

PHONE: (503)757-5682

WELD INSPECTION:

REVISIONS

DESCRIPTION

FIRE REVIEW COMMENTS

CITY SUPPLY

STATIC PRESSURE:

RESIDUAL PRESSURE:

1250 GPM

FLOW @ RESIDUAL:

TEST LOCATION:
1230 OLIVE DRIVE

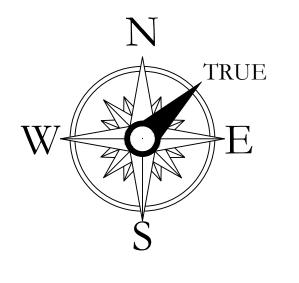
TEST DATE:

TESTING AGENCY:

HYDRANT #:

1230 OLIVE DRIVE

RIENTATION



SCALE

1/8" = 1'-0

0' 2' 4' 8' 16'

DESCRIPTION

1ST FLOOR

1ST FLOOR SYSTEM PIPING PLAN

FP-1.2

 JOB NUMBER:

 DRAWN BY:
 CHECKED BY:

 J. VANGAMMEREN
 E. JOHNSON

 PLAN DATE:
 PRINT DATE:

 05/18/2020
 05/18/2020