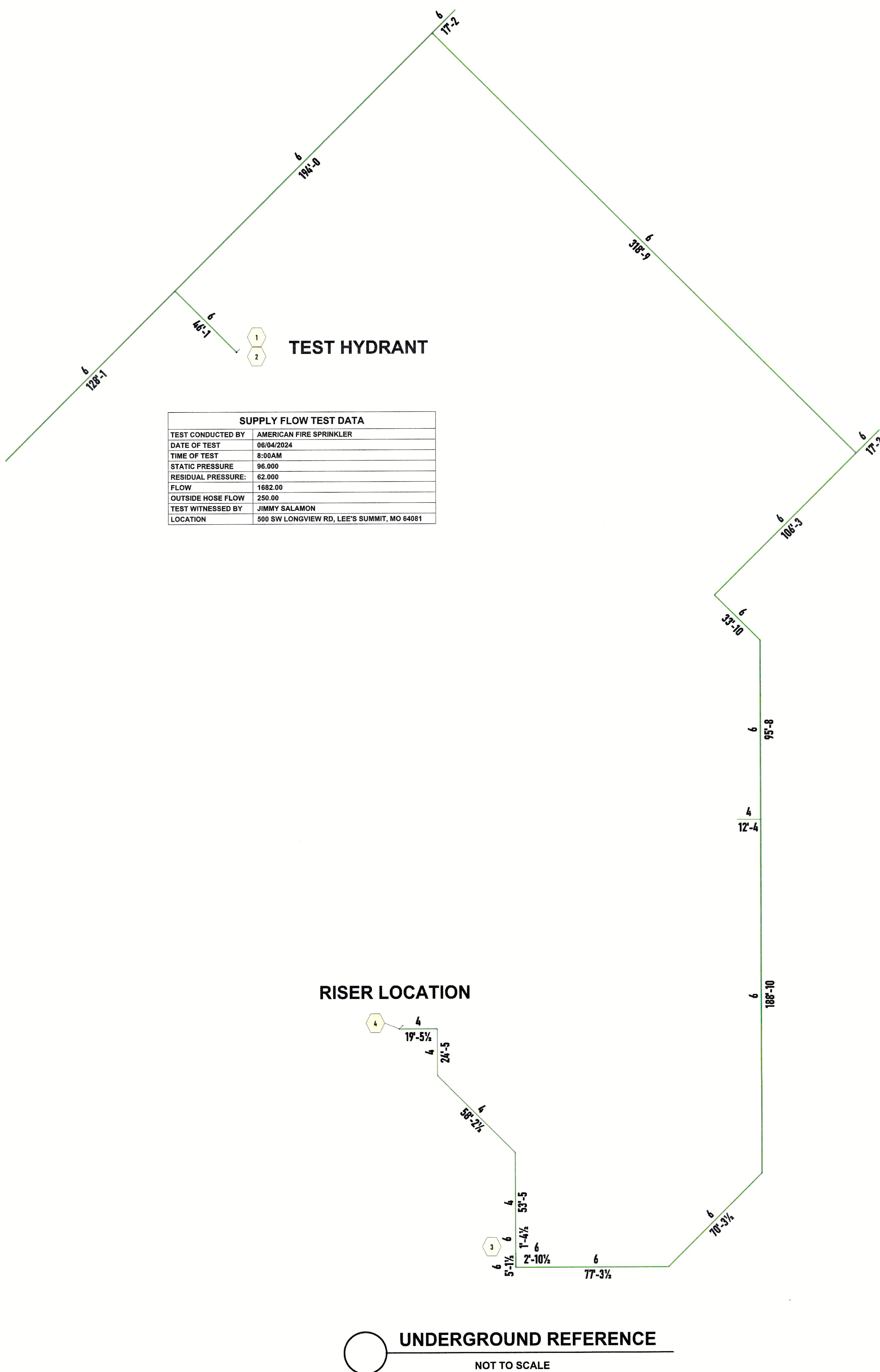


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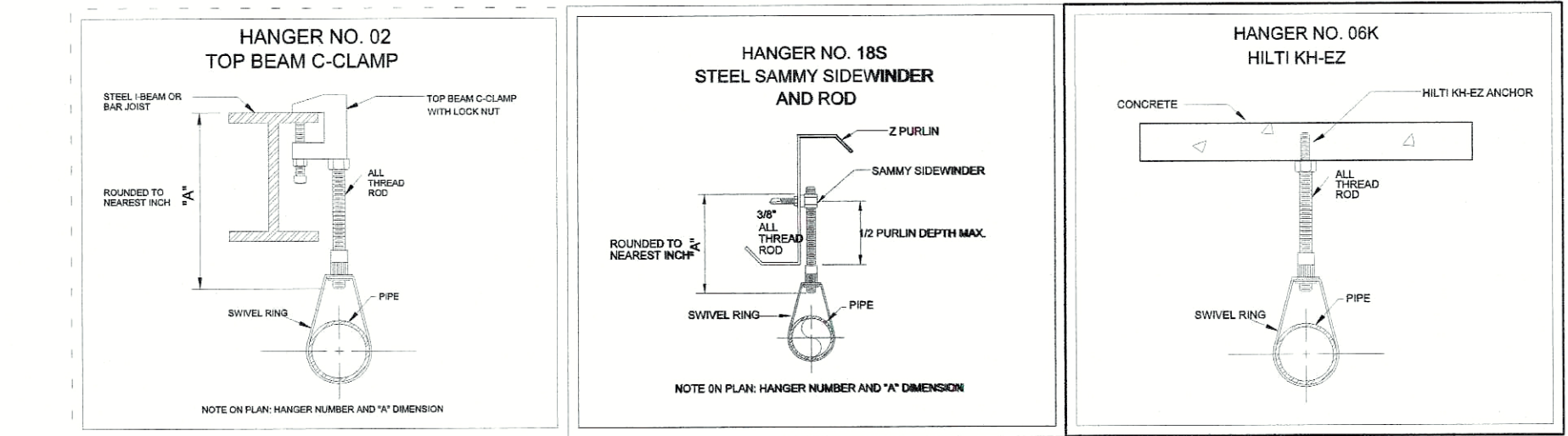
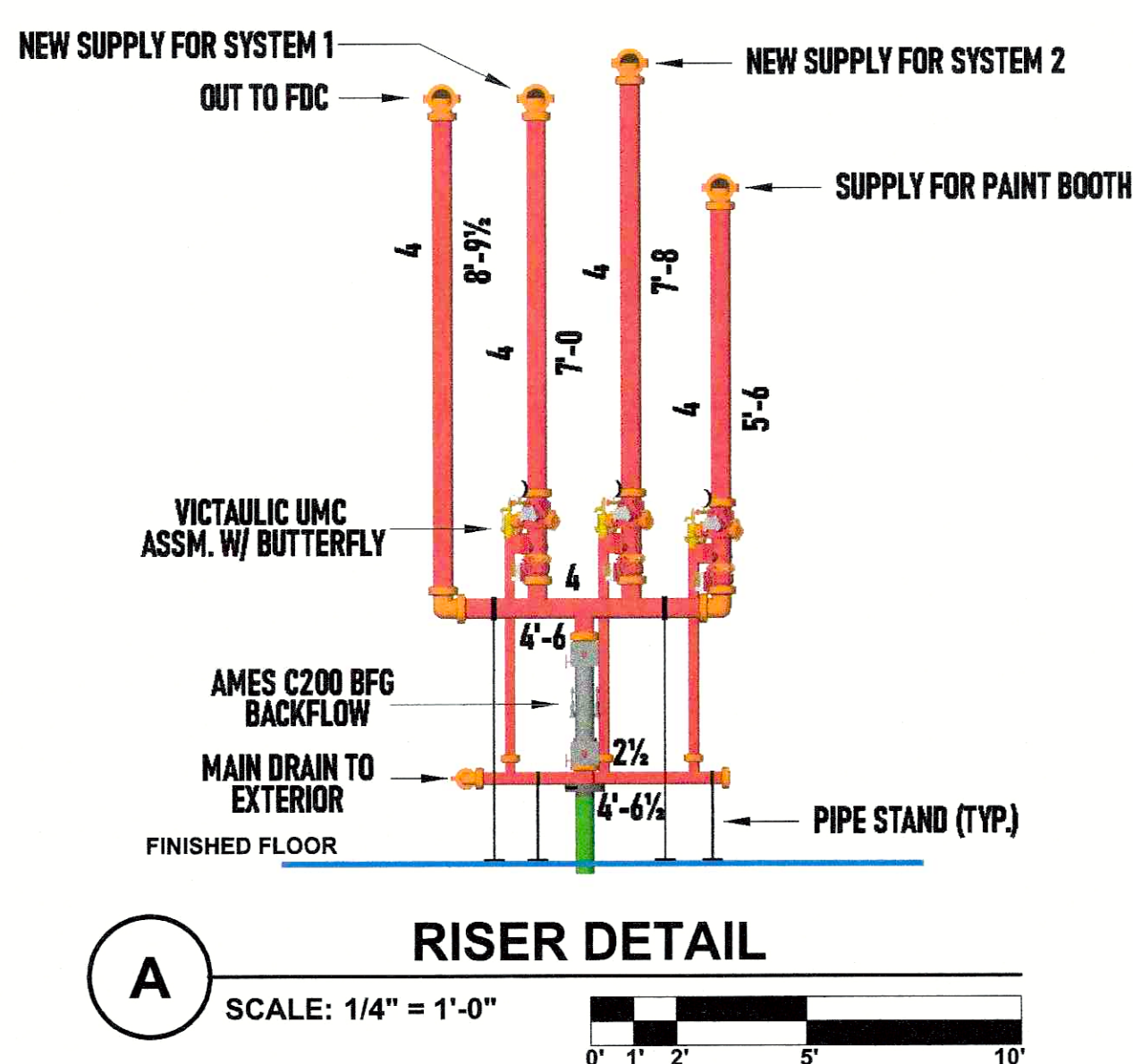
METROPOLITAN COMMUNITY COLLEGE - LONGVIEW

500 SW LONGVIEW RD.
LEE'S SUMMIT, MO 64081

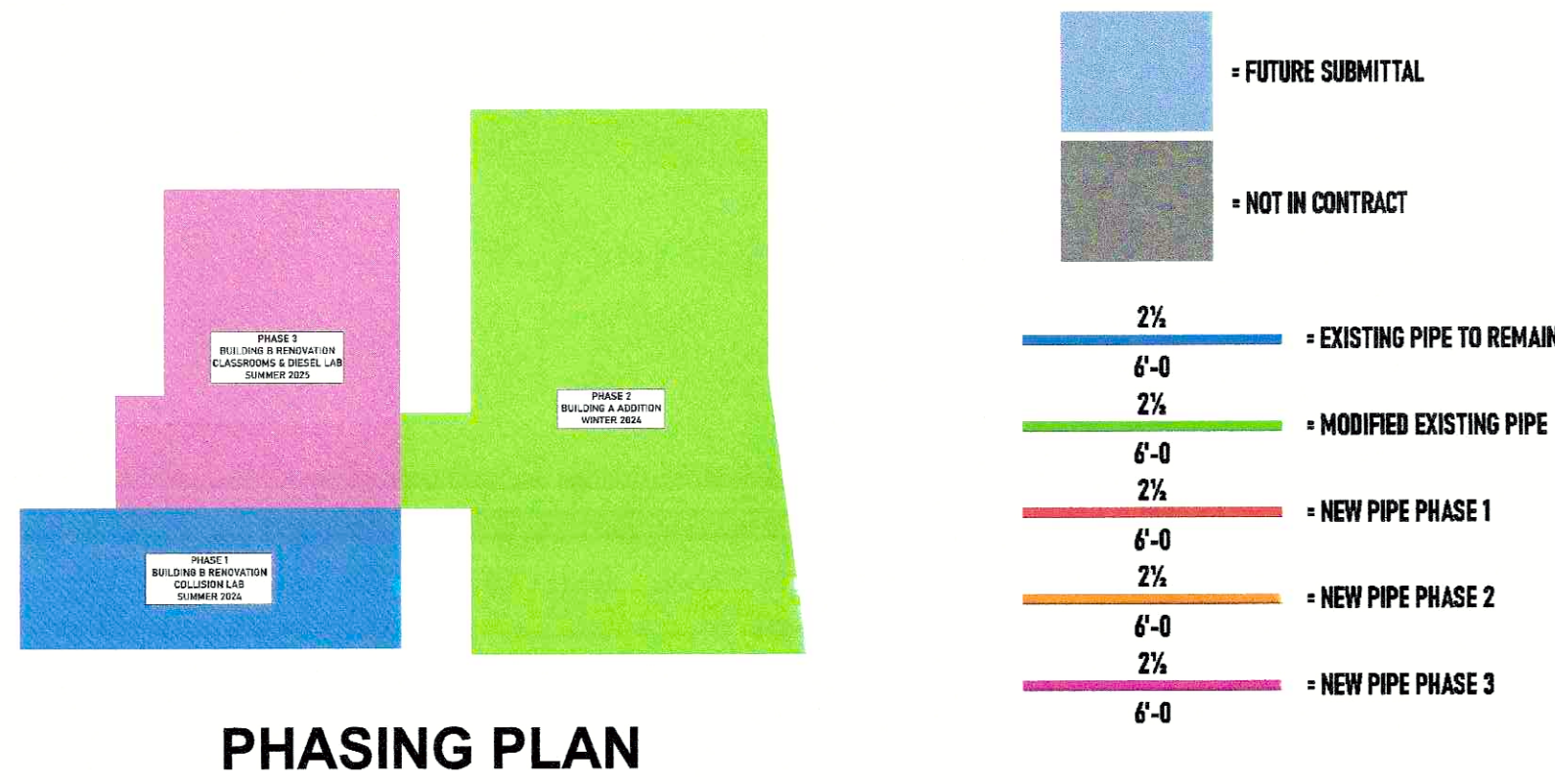
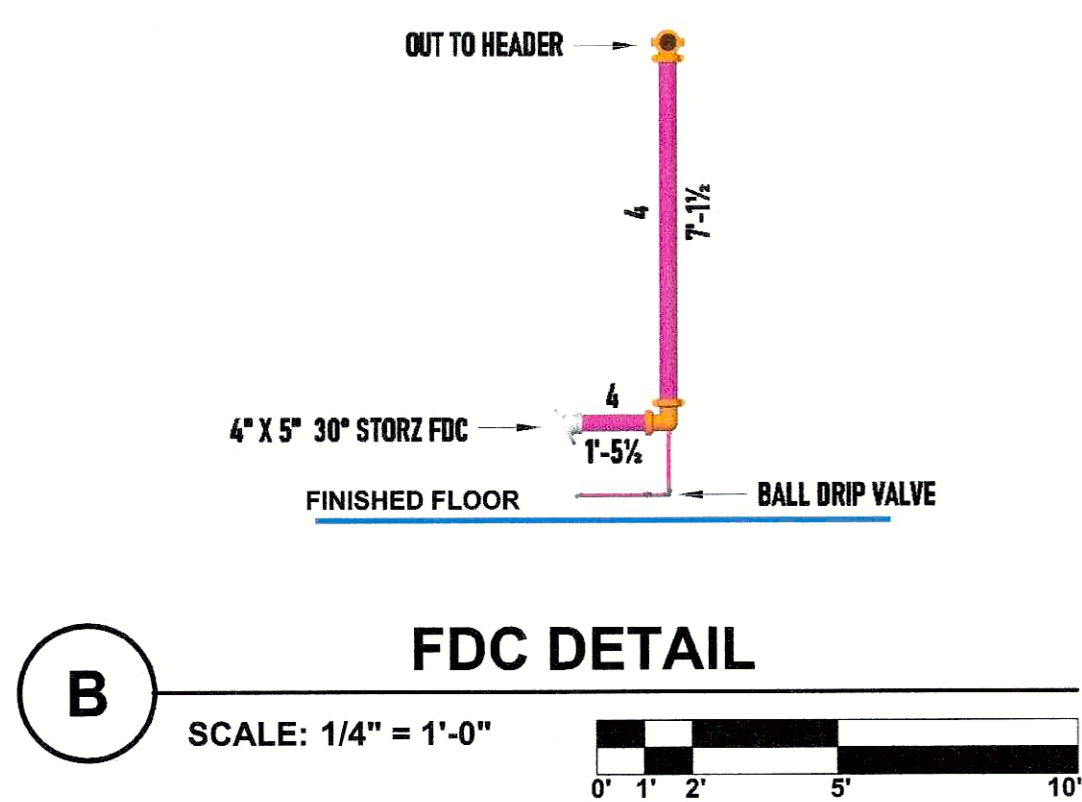
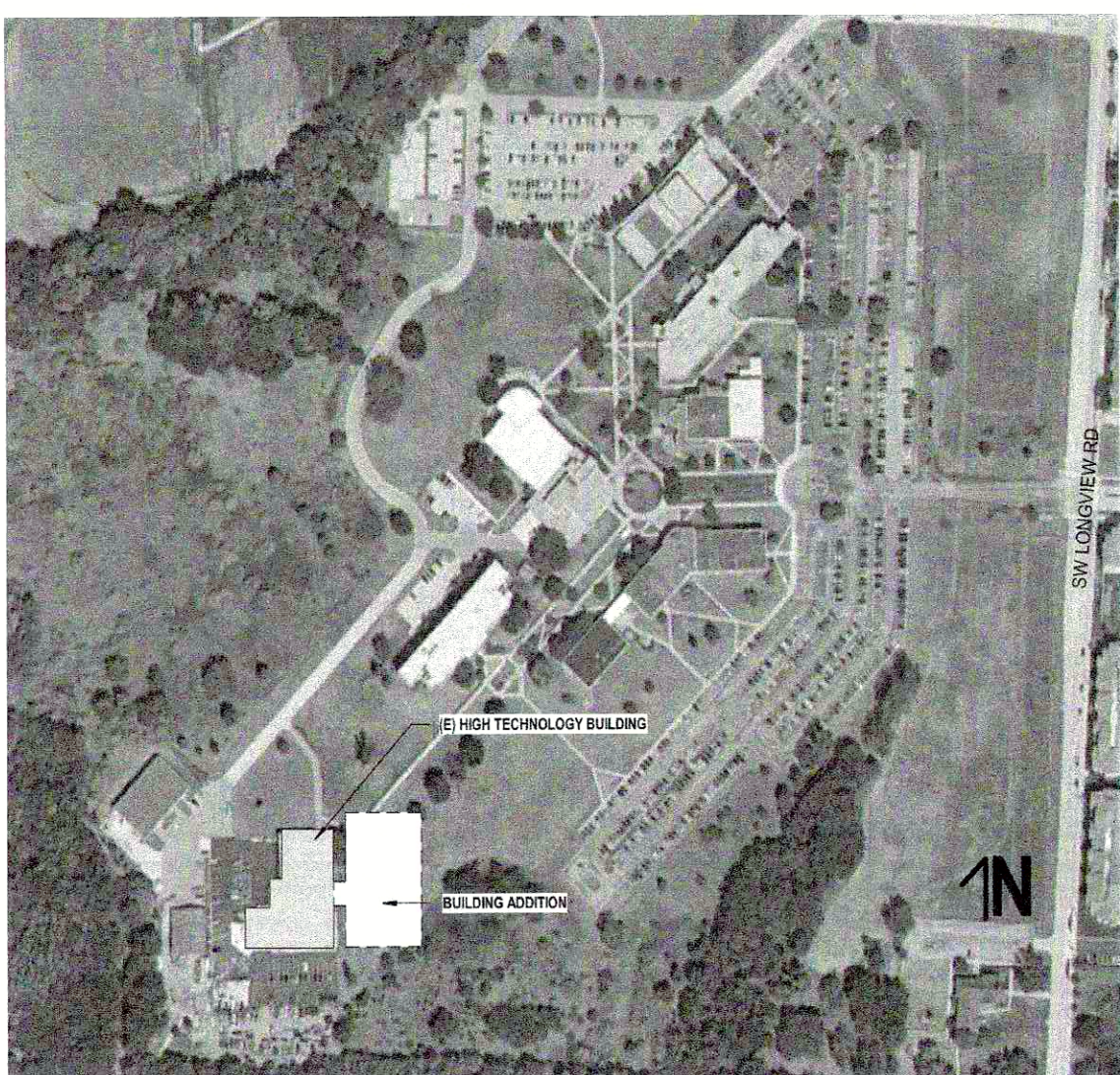
METROPOLITAN COMMUNITY COLLEGE - LONGVIEW



1. THE SYSTEMS SHALL CONFORM WITH THE REQUIREMENTS OF NFPA 13, 2016.
2. ALL THREADED PIPING / PIPING 2" & SMALLER SHALL BE SCHEDULE 40, BLACK STEEL. ALL GROOVED PIPING 2 1/2" AND LARGER SHALL BE SCHEDULE 10, BLACK STEEL.
3. FITTINGS FOR 1" THRU 1 1/2" SHALL BE DUTILE IRON THREADED OR ARE TO BE GROOVED WITH STANDARD TAKE-OUTS OR WELDED OUTLETS AS INDICATED ON THE DRAWING. FITTINGS FOR 2" AND LARGER ARE TO BE GROOVED WITH FIRELOCK TAKE-OUTS OR WELDED OUTLETS AS INDICATED ON THE DRAWING. ALL WELDS ARE TO BE SHOP WELDED.
4. PIPE LENGTHS ON DRAWING ARE SHOWN AS CUT LENGTH DIMENSIONS.
5. ALL SECTIONS OF TRAPPED PIPING SHALL HAVE AUXILIARY DRAINS WHERE REQUIRED. PER NFPA 13.
6. ALL HANGERS ARE TO BE IN CONFORMANCE WITH NFPA 13.
7. PENETRATIONS THRU FIRE WALLS SHALL BE FIRE CAULKED AS REQUIRED.
8. THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE HEAT TO PREVENT THE WATER IN THE PIPING FROM FREEZING.
9. AMERICAN FIRE SPRINKLER CORP. IS NOT CONTRACTED TO PROVIDE THE ALARM WIRING OR THE CENTRAL STATION ALARM SYSTEM.



MAXIMUM DISTANCE BETWEEN HANGERS											
NOMINAL PIPE SIZE (IN.)	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	5"	6"
STEEL PIPE EXCEPT THREADED LIGHTWALL	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0



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PE STAMP:

AMERICAN
FIRE SPRINKLER
OFFICE: 6750 W. 4TH TERR. MISSION, KS. 66203
MAIL: P.O. BOX 993 MISSION, KS. 66201-0993
FIRE PROTECTION SYSTEMS - CONSULTANTS - DESIGN
FABRICATION - SALES - SERVICE

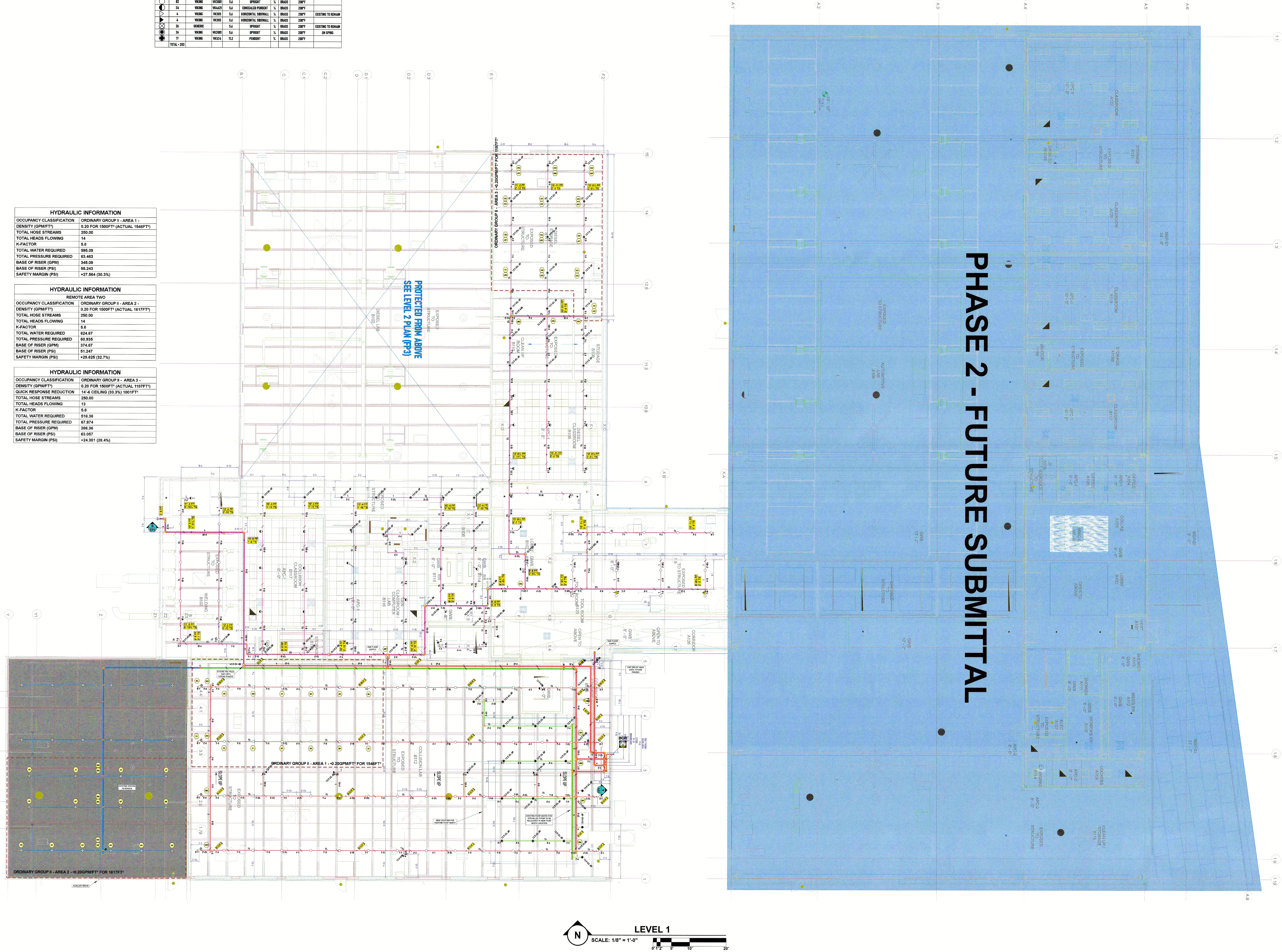
PAY ITEM: SPR
REVIEWING AUTHORITY: OWNER / CITY
HEADS THIS SHEET: N/A
HEADS THIS JOB: TBD
DRAWN BY: ALEC MOBLEY
DATE: 06-28-2024
REVISION DATE: _____
SCALE: AS SHOWN
CONTRACT # 4352CK
DWG #: **FP01**
SHEET: 1 OF 3

SPRINKLER LEGEND - LEVEL 1							
SYMBOL	QUANTITY	MANUFACTURER	SN	K-FACTOR	TYPE	SIZE	FINISH
●	82	YONG	YK3001	5.6	UPRIGHT	1/2"	BRASS
○	34	YONG	YK4021	5.6	CONCEALED PENDENT	1/2"	BRASS
●	4	YONG	YK3015	5.6	HORIZONTAL SPINAL	1/2"	BRASS
●	4	YONG	YK3015	5.6	HORIZONTAL SPINAL	1/2"	BRASS
●	26	GENERIC		5.6	UPRIGHT	1/2"	BRASS
●	34	YONG	YK3001	5.6	UPRIGHT	1/2"	BRASS
●	17	YONG	YK3016	11.2	PENDENT	1/2"	BRASS
●	TOTAL = 203						

HYDRAULIC INFORMATION	
OCCUPANCY CLASSIFICATION	ORDINARY GROUP II - AREA 1 -
DENSITY (GPM/FT²)	0.20 FOR 1500FT² (ACTUAL 1648FT²)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	14
K-FACTOR	5.6
TOTAL WATER REQUIRED	995.09
TOTAL PRESSURE REQUIRED	63.463
BASE OF RISER (GPM)	345.09
BASE OF RISER (PSI)	55.243
SAFETY MARGIN (PSI)	+27.564 (30.3%)

HYDRAULIC INFORMATION	
OCCUPANCY CLASSIFICATION	REMOTE AREA TWO
OCCUPANCY CLASSIFICATION	ORDINARY GROUP II - AREA 2 -
DENSITY (GPM/FT²)	0.20 FOR 1500FT² (ACTUAL 1617FT²)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	14
K-FACTOR	5.6
TOTAL WATER REQUIRED	624.67
TOTAL PRESSURE REQUIRED	60.935
BASE OF RISER (GPM)	374.67
BASE OF RISER (PSI)	51.247
SAFETY MARGIN (PSI)	+29.625 (32.7%)

HYDRAULIC INFORMATION	
OCCUPANCY CLASSIFICATION	ORDINARY GROUP II - AREA 3 -
DENSITY (GPM/FT²)	0.20 FOR 1500FT² (ACTUAL 1197FT²)
QUICK RESPONSE REDUCTION	14'-6" CEILING (33.3%) 1001FT²
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	13
K-FACTOR	5.6
TOTAL WATER REQUIRED	516.36
TOTAL PRESSURE REQUIRED	97.874
BASE OF RISER (GPM)	295.36
BASE OF RISER (PSI)	83.057
SAFETY MARGIN (PSI)	+24.301 (26.4%)



REVISIONS

DATE	DESCRIPTION	BY	APP
06/28/2024	PHASE 2 - FUTURE SUBMITTAL	ALC	MOB

SYMBOLS

SYMBOL	DESCRIPTION
○	HYDRAULIC REFERENCE POINTS
●	ELEV. ABOVE FINISHED FLOOR
○	ELEV. OF TOP OF STEEL
○	CEILING HEIGHT
○	DENOTES HANGER LOCATION
○	RISE UP OR DOWN

PAY ITEM:

SPP

REVIEWING AUTHORITY:

OWNER / CITY

HEADS THIS SHEET:

203

HEADS THIS JOB:

TBD

DRAWN BY:

ALEC MOBLEY

DATE:

06-28-2024

REVISION DATE:

AS SHOWN

SCALE:

AS SHOWN

CONTRACT #

4352CK

DWG #:

FP02

SHEET:

2 OF 3

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500 SW LONGVIEW RD.

LEE'S SUMMIT, MO 64081

PE STAMP:

AMERICAN

FIRE SPRINKLER

OFFICE: 675 W. 4TH STREET, MISSOURI, MO 64111

PHONE: 816.461.1111

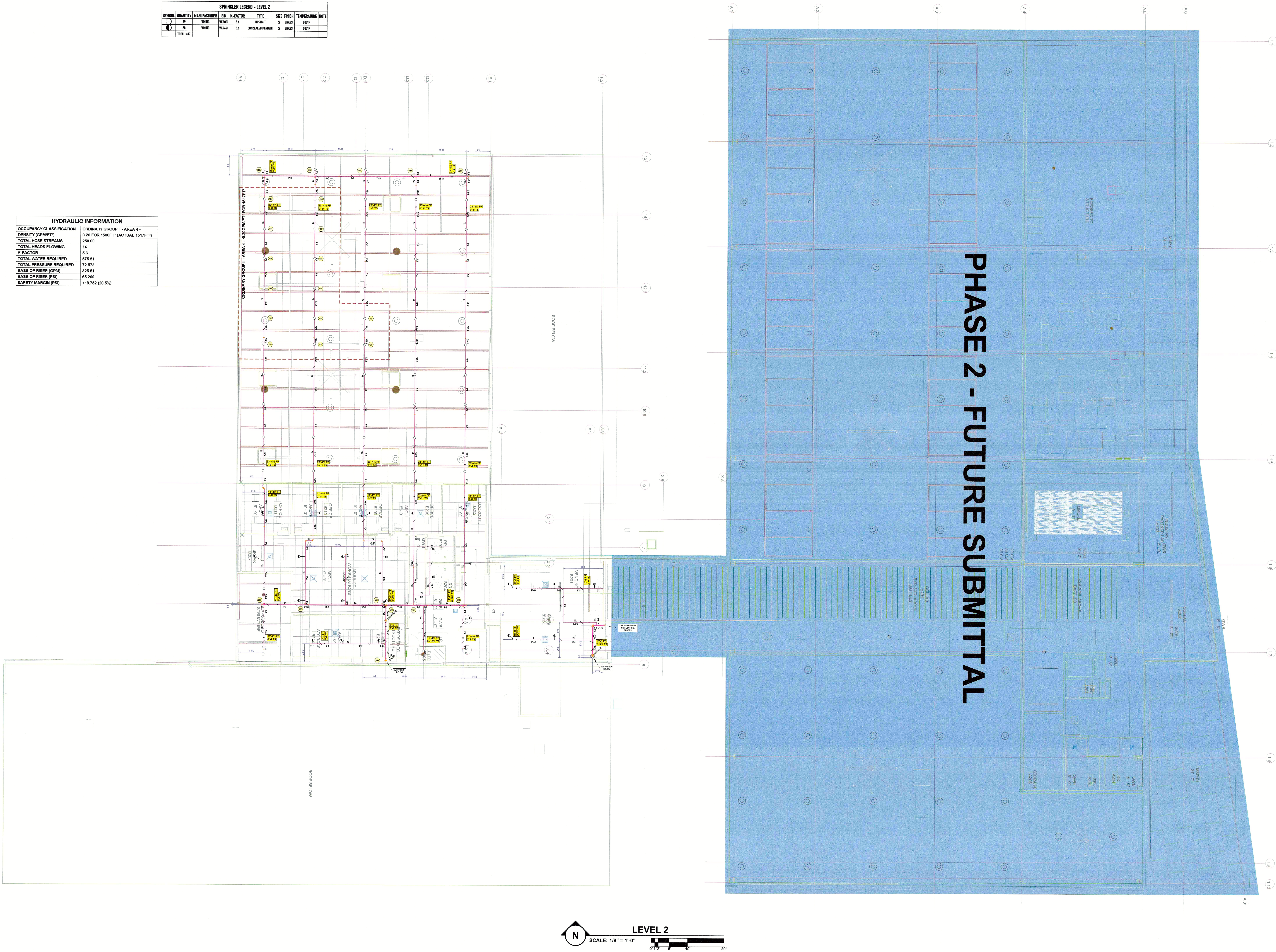
EMAIL: INFO@AMERICANFIRESPRINKLER.COM

WEBSITE: WWW.AMERICANFIRESPRINKLER.COM

7/3/24

HYDRAULIC INFORMATION	
OCCUPANCY CLASSIFICATION	ORDINARY GROUP II - AREA 4 -
DENSITY (GPM/FT ²)	0.20 FOR 1500FT ² (ACTUAL 1617FT ²)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	14
K-FACTOR	5.6
TOTAL WATER REQUIRED	575.51
TOTAL PRESSURE REQUIRED	72.573
BASE OF RISER (GPM)	325.61
BASE OF RISER (PSI)	65.269
SAFETY MARGIN (PSI)	+18.752 (20.5%)

SPRINKLER LEGEND - LEVEL 2									
SYMBOL	QUANTITY	MANUFACTURER	SIZE	K-FACTOR	TYPE	SIZE	FINISH	TEMPERATURE	NOTE
○	57	VENGO	1/2"	5.6	UPRINT	1/2"	BRAS	200°F	
○	28	VENGO	1/2"	5.6	CONCEALED PENDENT	1/2"	BRAS	200°F	
	TOTAL = 87								





AMERICAN
FIRE SPRINKLER

OFFICE 975 W. 4TH ST., MISSOURI, MO 64103
MAIL: P.O. BOX 108, MISSOURI, MO 64103
913-722-6900
FIRE PROTECTION SYSTEMS - DESIGN
FABRICATION - SALES - SERVICE

PAY ITEM: SPR

REVIEWING AUTHORITY: OWNER / CITY

HEADS THIS SHEET: 87

HEADS THIS JOB: TBD

DRAWN BY: ALEC MOBLEY

DATE: 06-28-2024

REVISION DATE: -----

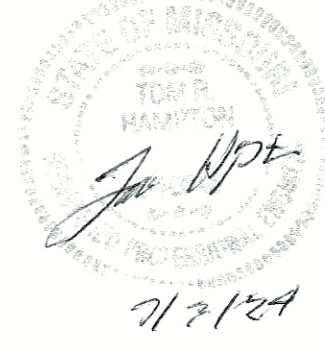
SCALE: AS SHOWN

CONTRACT # 4352CK

DWG # FP3

SHEET: 3 OF 3

PE STAMP:



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500 SW LONGVIEW RD.

LEE'S SUMMIT, MO 64081

REVISIONS

SYMBOL	DESCRIPTION	DATE
○ <td>HYDRAULIC REFERENCE POINTS</td> <td>-----</td>	HYDRAULIC REFERENCE POINTS	-----
○ <td>ELEV. BELOW TOP OF STEEL</td> <td>-----</td>	ELEV. BELOW TOP OF STEEL	-----
○ <td>ELEV. BELOW TOP OF FLOOR</td> <td>-----</td>	ELEV. BELOW TOP OF FLOOR	-----
○ <td>ELEV. OF TOP OF STEEL</td> <td>-----</td>	ELEV. OF TOP OF STEEL	-----
○ <td>CEILING HEIGHT</td> <td>-----</td>	CEILING HEIGHT	-----
○ <td>DENOTES HANGER LOCATION</td> <td>-----</td>	DENOTES HANGER LOCATION	-----
○ <td>RISE UP OR DOWN</td> <td>-----</td>	RISE UP OR DOWN	-----

DELTA 1/1