

**GENERAL NOTES**

- IT IS THE RESPONSIBILITY OF THE OWNER TO MAINTAIN THE INTEGRITY OF THE SPRINKLER SYSTEM
- ALL MATERIALS AND DEVICES SHALL BE NEW AND U.L. LISTED AND IN CONFORMANCE WITH NFPA 13, NFPA 14, NFPA 20, AND NFPA 24, AND SHALL BE LISTED WITH THE CITY FIRE MARSHALL FOR USE IN AUTOMATIC SPRINKLER SYSTEMS.
- THE UNDERGROUND PORTION OF THIS FIRE SPRINKLER SYSTEM SHALL CONFORM TO NFPA 24. MINIMUM BURY SHALL BE 3'-0". ALL CHANGES OF DIRECTION OF ANY UNDERGROUND MAINS SHALL BE RESTRAINED WITH THRUST BLOCKS OR U.L. RESTRAINING DEVICES. (UNDERGROUND WORK TO BE PERFORMED BY OTHERS)
- UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO RISERS SHALL BE COMPLETELY FLUSHED BEFORE CONNECTION IS MADE TO THE OVERHEAD FIRE SPRINKLER SYSTEM PER NFPA 13. FLUSH TO BE WITNESSED BY INSPECTOR.
- THIS FIRE SPRINKLER SYSTEM IS HYDRAULICALLY DESIGNED TO LIGHT / ORDINARY / EXTRA HAZARD AS DETERMINED BY OCCUPANCY RATING.
- ALL WELDING SHALL CONFORM TO NFPA AND SHALL BE PERFORMED BY CERTIFIED WELDERS.
- ALL NEW PIPING SHALL BE HYDROSTATICALLY TESTED AT 50 PSI ABOVE THE MAXIMUM STATIC PRESSURE OR 200 PSI, WHICHEVER IS GREATER, FOR 2 HOURS. THIS TEST SHALL BE PERFORMED IN THE PRESENCE OF THE FIRE MARSHALL.
- ALL HANDLES AND WHEELS OF CONTROL VALVES SHALL BE WITHIN 5'-0" OF THE FINISHED FLOOR AND SHALL BE LOCKED OR MONITORED IN THE OPEN POSITION.
- ALL ELECTRICAL WIRING OF BOTH LOW AND LINE VOLTAGE, PAINTING OR LABELING OF PIPING, AND SUPPLYING OF FIRE EXTINGUISHERS TO BE PERFORMED BY OTHERS.
- AN OUTSIDE ALARM BELL SHALL BE CONNECTED TO EACH RISER IN ACCORDANCE WITH NFPA 13 AND SHALL INCLUDE AN APPROVED IDENTIFICATION SIGN.
- THIS FIRE SPRINKLER SYSTEM SHALL HAVE 24 HOUR MONITORING BY AN APPROVED CENTRAL STATION LOCATION. (MONITORING SYSTEM WORK BY OTHERS)
- ALL PIPE PENETRATIONS OF RATED WALLS, PARTITIONS, OR OCCUPANCY SEPARATIONS SHALL BE FIRE STOPPED. (WORK TO BE PERFORMED BY OTHERS)
- A STOCK OF SPARE SPRINKLERS OF EACH STYLE, TYPE, AND TEMPERATURE RATING ALONG WITH A SPRINKLER HEAD WRENCH SHALL BE PROVIDED.
- N/A

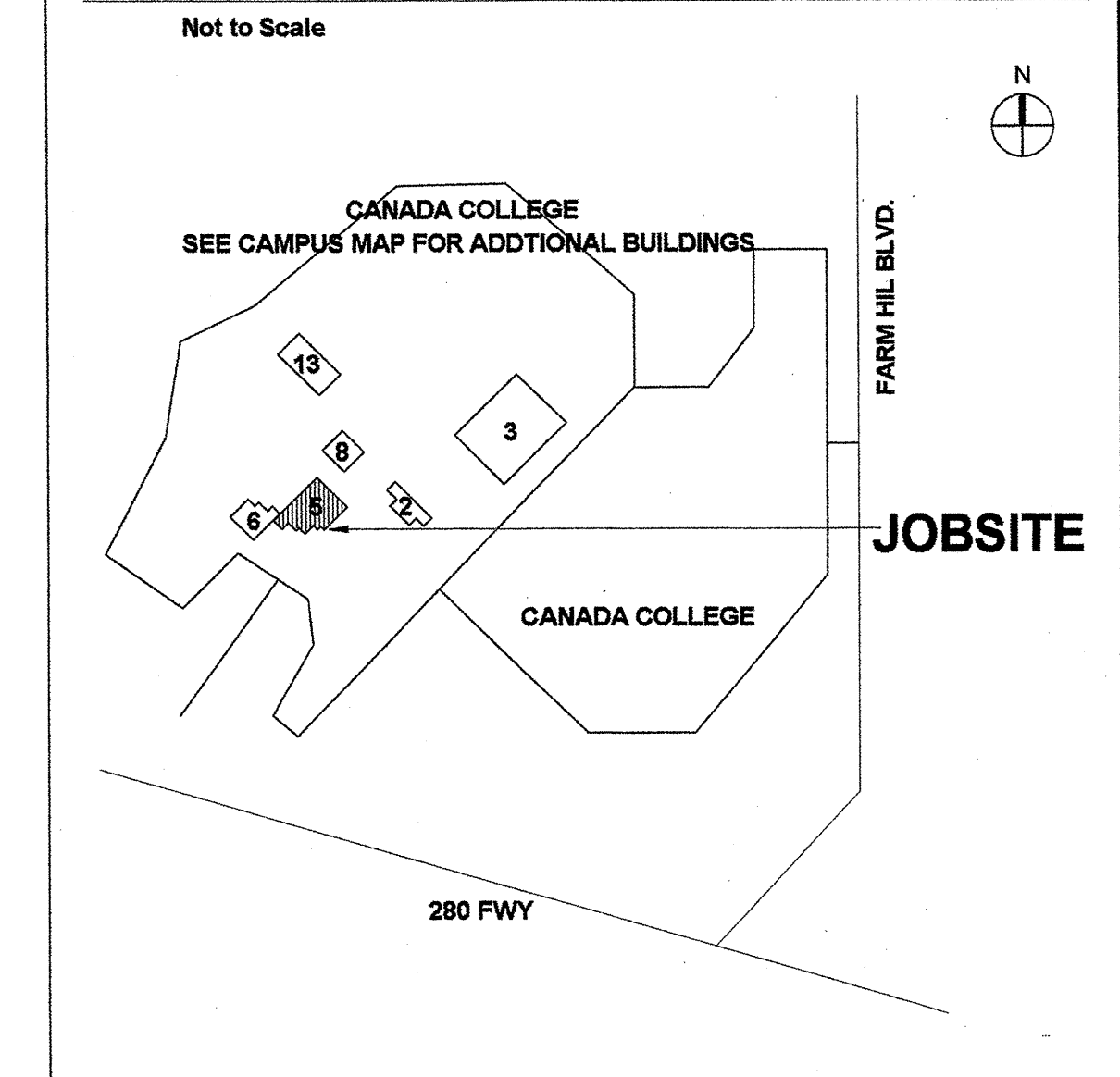
- ALL LOW POINTS OF THE SYSTEM SHALL HAVE PROVISIONS FOR DRAINAGE IN ACCORDANCE TO NFPA 2002.
- AN APPOINTMENT SHALL BE MADE A MINIMUM 24 HOURS IN ADVANCE WITH THE APPROPRIATE FIRE PREVENTION OFFICE FOR ALL INSPECTIONS.
- A SET OF APPROVED PLANS SHALL BE MAINTAINED AT ALL TIMES ON THE JOB SITE.
- THE SPRINKLER CONTACTOR WILL PROVIDE THE OWNER WITH THE NECESSARY MANUALS FOR THE UP KEEP OF THE SYSTEM AS WELL AS A COPY OF NFPA 25.
- HANGERS AND BRACING:
  - ALL HANGING OF NEW PIPE SHALL BE WITH U.L. LISTED COMPONENTS AND SHALL BE IN ACCORDANCE WITH NFPA
  - ALL SEISMIC BRACING OF NEW PIPE SHALL BE WITH U.L. LISTED COMPONENTS AND SHALL BE IN ACCORDANCE WITH NFPA
  - RESTRAINT OF BRANCHLINES SHALL BE IN ACCORDANCE WITH NFPA
- PIPE:
  - ALL PIPING 1 1/4" THROUGH 6" USED FOR WELDED MAINS OR BRANCHLINES SHALL BE SCHEDULE 10 AND IN COMPLIANCE WITH ASTM A-135 AND NFPA 13.
  - ALL PIPING 1" THROUGH 2" USED FOR THREADED BRANCHLINES SHALL BE SCHEDULE 40 AND IN COMPLIANCE WITH ASTM A-135 AND NFPA 13.
- FITTINGS:
  - SCREWED FITTINGS SHALL BE STANDARD MALLEABLE, DUCTILE IRON, OR CAST IRON AND IN CONFORMANCE WITH ANSI B16.3 AND ANSI B16.4.
  - GROOVED FITTINGS AND COUPLINGS CENTRAL FIGURE 572, 575, OR 716 OR EQUAL.
  - WELDED OUTLETS SHALL BE MERITT THREADED OR GROOVED, OR EQUAL, AND IN CONFORMANCE WITH ASME B31 AND ANSI B1.20.1, RATED 300 PSI.
- SPRINKLERS:
  - AREAS OF EXPOSED STRUCTURE OR ABOVE CEILING ARE TYCO TY-FRB, UPRIGHT MODEL TY131, 200F TEMP RATING.
  - AREAS WITH SUSPENDED OR GYPBOARD CEILING ARE TYCO TY-FRB, PENDENT MODEL TY3231, 155F TEMP RATING.
- NO INSTALLATION SHALL BE STARTED WITHOUT DSA APPROVALS.
- ALL UNDERGROUND WORK SHALL BE PERFORMED BY OTHERS.
- ALL PAINTING AND LABELS SHALL BE PERFORMED BY OTHERS.
- ALL FIRE EXTINGUISHERS SHALL BE SUPPLIED BY OTHERS.
- ALL SEALING OF PENETRATIONS, INCLUDING FIRE STOPPING AND SOUND CAULKING, SHALL BE PERFORMED BY OTHERS.
- ALL ELECTRICAL WIRING OF BOTH LINE AND LOW VOLTAGE SHALL BE PERFORMED BY OTHERS.

**CODE COMPLIANCE**

- THE INSTALLATION OF THE FIRE SPRINKLER SYSTEM SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF NFPA 13, 2002.
- THE INSTALLATION OF THE STANDPIPES SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF NFPA 14, 2000.
- THE INSTALLATION OF THE FIRE PUMP SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF NFPA 20, 2003.
- THE INSTALLATION OF THE UNDERGROUND SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF NFPA 24, 2007.
- THE INSTALLATION OF ALL HANGERS, BRACING, AND RESTRAINTS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF NFPA 13, 2002.
- NFPA 13, 2002 - 6.1.1 MATERIALS AND DEVICES SHALL BE LISTED FOR USE IN FIRE SPRINKLER SYSTEMS.
- NFPA 13, 2002 - 6.2.9 A STOCK OF SPARE SPRINKLER HEADS OF EACH TYPE, STYLE, AND TEMPERATURE RATING ALONG WITH A SPRINKLER HEAD WRENCH SHALL BE PROVIDED.
- NFPA 13, 2002 - 6.5.2 ALL WELDING SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF AWS B2.1.
- NFPA 13, 2002 - 8.16.1.1 A LOCAL WATER FLOW ALARM (OUTSIDE ALARM BELL) SHALL BE PROVIDED.
- NFPA 13, 2002 - 8.16.1.4 ALL HANDLES AND WHEELS OF CONTROL VALVES SHALL BE MONITORED AND LOCKED IN THE OPEN POSITION.
- NFPA 13, 2002 - 10.10.2.1 UNDERGROUND MAINS AND LEAD-IN CONNECTIONS SHALL BE COMPLETELY FLUSHED BEFORE CONNECTION IS MADE TO THE FIRE SPRINKLER SYSTEM AND FLUSHING TO BE WITNESSED BY THE INSPECTOR.
- NFPA 13, 2002 - 16.1 THE INSTALLING CONTRACTOR SHALL COMPLETE AND SIGN THE APPROPRIATE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE.
- NFPA 13, 2002 - 16.2.1 THE FIRE SPRINKLER SYSTEM SHALL BE HYDROSTATICALLY TESTED AT 200 PSI AND SHALL MAINTAIN THAT PRESSURE FOR 2 HOURS WITHOUT LOSS. THIS TEST SHALL BE WITNESSED BY THE INSPECTOR.
- NFPA 13, 2002 - 16.2.3.4 THE MAIN DRAIN VALVE SHALL BE OPENED FULLY AND LEFT OPEN UNTIL THE SYSTEM PRESSURE STABILIZES - THE STATIC AND RESIDUAL PRESSURES SHALL BE RECORDED ON THE CONTRACTOR'S TEST CERTIFICATE - TO BE WITNESSED BY THE INSPECTOR.
- NFPA 13, 2002 - 16.5 A HYDRAULIC DESIGN DATA NAME PLATE SHALL BE ATTACHED TO THE SYSTEM RISER.

NEW SPRINKLERS PROVIDED AT THIRD FLOOR PER CBC 903.2.1  
SEPARATION BETWEEN "B" AND "A" IS 2 HOUR  
SEE SHEET A0.5 CODE SUMMARY NOTES 18 & 19

**VICINITY MAP**



**SHEET INDEX**

SHEET NO	DRAWING NAME
FP-00	COVER SHEET
FP-01	DETAIL SHEET
FP-02	BUILDING SECTION
FP-03	3RD FLOOR PIPING PLAN
FP-04	3RD FLOOR REFLECTED CEILING
A0.5	CODE REVIEW (FOR REFERENCE ONLY)
A0.61	FIRST & SECOND FLOOR EXITING PLANS (FOR REFERENCE ONLY)
A0.62	THIRD FLOOR EXITING PLANS (FOR REFERENCE ONLY)

A. Approved as noted for Architectural Review  
 B. Review & Resubmit  
 C. Rejected  
 This review is for general conformance with plans and specifications only. Any deviation from same and clearly shown by the subcontractor here and best corrected. Review shall not constitute a complete check or detailed dimensions or cause or serve to relieve the subcontractor of contractual responsibilities for any errors or omissions from contract documents.  
 McCarthy Job No. 4497 Canada College 584 Renovation  
 Dr. Andy Hilde Code: 60742818  
 Submittal Reference No. 21 0000-0001-1

*RFL-7*  
 Clarific. Fire Resist. Struct.

**SCOPE OF WORK**

ADD A NEW WET FIRE SPRINKLER SYSTEM TO THE 3RD FLOOR OF BUILDING 5 SUPPLIED FROM THE EXISTING FIRE SPRINKLER RISER AND EXISTING UNDERGROUND. THIS IS AN EXISTING CAMPUS.

**PROJECT INFORMATION**

PROJECT: CANADA COLLEGE BLD. 5  
 LOCATION: 4200 FARM HILL BLVD. REDWOOD CITY, CA. 94061  
 GENERAL CONTRACTOR: MCCARTHY BUILDING COMPANIES 343 SANSOME STREET 14TH FLOOR SAN FRANCISCO, CA 94111  
 ARCHITECT: BUNTON CLIFFORD ASSOCIATES, INC. 210 HARMOND AVE. FREMONT, CA. 94539  
 OWNER: SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT 3401 CSM DRIVE. SAN MATEO, CA. 94402

BUILDING OCCUPANCY: B and A2  
 CONSTRUCTION TYPE: I-A  
 BUILDING HEIGHT: 6'-0"  
 BUILDING FLOOR: 3RD FLOOR 18,280 SQ.FT.  
 SEE SHEETS A0.5, A0.61, & A0.62 ATTACHED FOR REFERENCE FOR COMPLETE CODE ANALYSIS

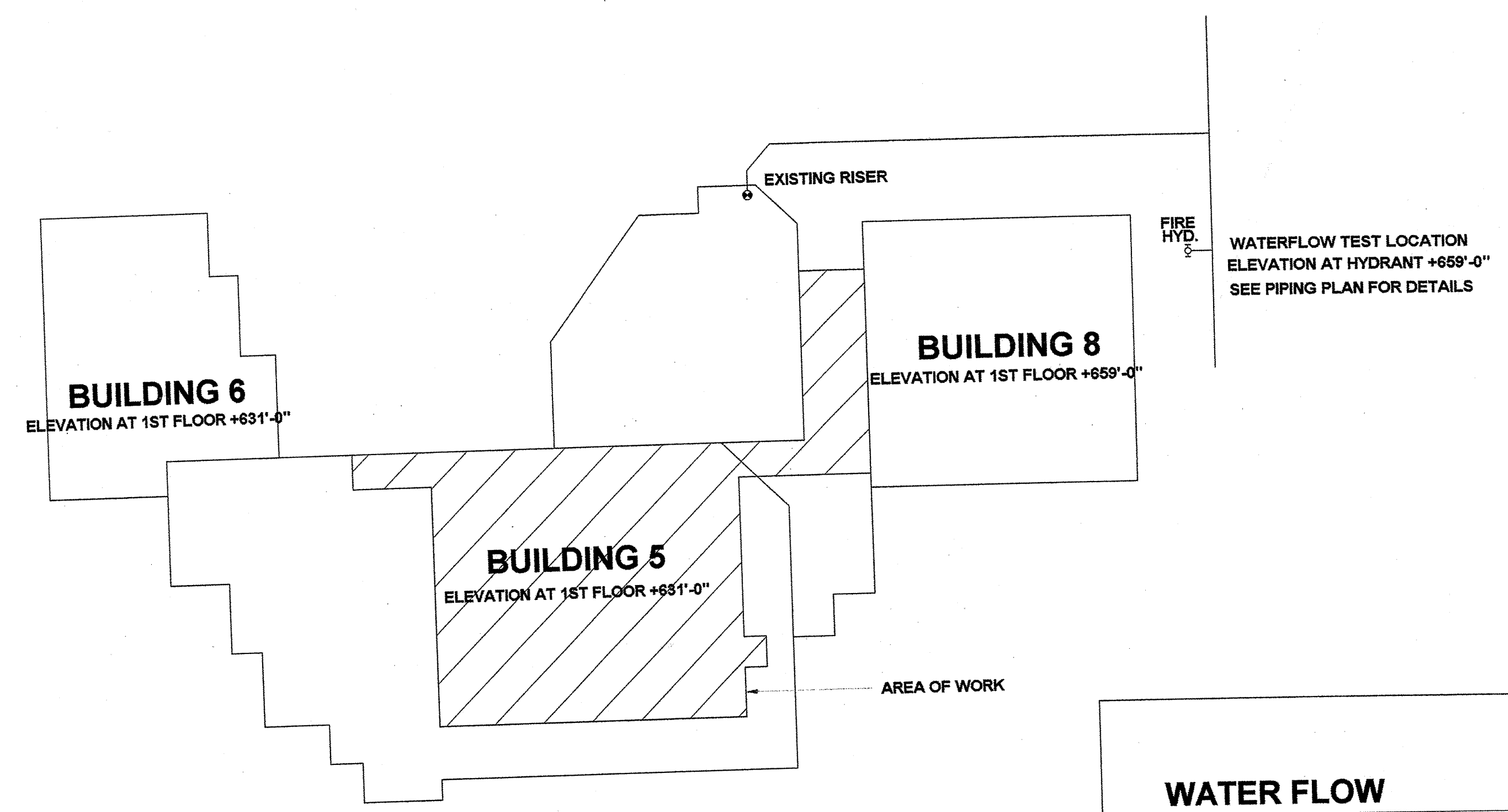
**APPROVAL STAMPS**

**TRANSBAY FIRE PROTECTION, INC.**  
 License No. 629776  
 2162 Rheem Dr. Pleasanton, CA 94588  
 (925) 945-0434 Fax (925) 945-1010

Job No: 1025  
 Date: 4/12/10  
 Designer: JC  
 Checked: CM  
 Scale: NO SCALE

**CANADA COLLEGE - BUILDING 5**  
 4200 FARM HILL BOULEVARD  
 REDWOOD CITY, CA. 94061

**FP-00**  
 COVER SHEET



**WATER FLOW**  
 FLOW TEST INFORMATION

INFORMATION PER:	TRANSBAY FIRE PROTECTION
LOCATION OF TEST:	FIRE HYDRANT AT BLD.8
TEST DATE:	3/24/10
TIME OF TEST:	8:45 AM
CITY MAIN SIZE:	12"
STATIC:	96
RESIDUAL:	86
FLOWING:	1353

A 10% SAFETY FACTOR WILL BE PROVIDED IN THE HYDRAULIC CALCULATIONS

**SITE PLAN**  
 NO SCALE  
 POINT OF CONNECTION IS 0'-6" INSIDE OF BUILDING ALL OTHER UNDERGROUND WORK IS BY GENERAL CONTRACTOR AND IS SHOWN FOR REFERENCE ONLY.

TRADE	CONTRACTOR	SIGNATURE	DATE
Electrical			
Fire			
General			
HVAC			
Plumbing			
Architect			

Rev	Date	Designr	Notes
1	5/24/10	JC	Revision based on BCA comments dated 5/7/10

Sprinkler Head Information										
Brand	SIN #	Model	Description	Size	Temperature	K	Finish	Escutcheon	Quantity	
YCO	TY231	FRB	Spot Response Pendant	1/2"	165°	5.6	White	White	4	
YCO	TY131	FRB	Upright	3/4"	200°	5.6	Brass	White	4	
YCO	TY331	FRB	Corrosion Resistant Pendant	1/2"	155°	5.6	Brass	White	34	
YCO	TY331	FRB	Horizontal Sidewall	1/2"	155°	5.6	Brass	N/A	36	
YCO	TY488	WS	Window	1/2"	155°	5.6	White	White	0	
									Total This Sheet	74

Standard Symbols	
	Riser location
	Hanger
	Two Way Brace
	Four Way Brace
	Hydraulic Node
	Line Restraint