A. AUTOMATIC SPRINKLERS AND STANDPIPE SYSTEMS:

BUILDING #	TYPE	# OF ALARM VALVE	APPROX SF	MANUFACTURER
1	WET	8	172,800	Grinnell
3	WET	8	172,800	Grinnell
6	WET	8	172,800	Grinnell
13	WET	9	187,428	Reliable
14	WET	9	187,428	Reliable
15	WET	10	200,725	Reliable
16A	WET DELUGE	5 13	194,413 @ Fire Wall Penetration	Reliable CSC
16B	WET DELUGE	5 13	201,007 @ Fire Wall Penetration	Reliable CSC
17	WET DELUGE	9 4	200,725 @ Fire Wall Penetration	Reliable CSC
18	WET	8	167,195	Reliable
19	WET	9	200,725	Reliable
20	WET	8	167,195	Reliable
21	WET	10	200,725	Reliable
22	WET	10	201,203	Reliable
28	WET	8 15	28,657 80,000	Reliable FireLock
29	WET	10	203,852	Reliable
30	WET	19	390,440	CSC
31	WET	1	8,000	CSC
32	WET	1	8170	CSC
38/40	DRY	1	12,800	
56	WET	18	488,000	CSC
57	WET	9	366,000	CSC
58	WET	15	488,000	
72	WET	1	1800	TYCO
100	WET	2 2	94,773	CSC Reliable
103	WET	1	3,739	tyco
201	WET	1	17,419	CSC
220	WET	1	2,155	Grinnell
247	WET	1	6,361	Reliable
255	WET	1	31,722	Reliable
235	WET	1	36,247	TYCO
253	WET	1	10,123	Grinnell

****Backflow Prevention Assemblies shall be maintained per NFPA 25 Standards and the recommendations of the equipment manufacturer.

B. GASEOUS EXTINGUISHING SYSTEMS:

BUILDING	TYPE	NO. OF SYSTEMS	NO. OF TANKS & SIZE
100	ECARO 25	2	1 @ 215 lbs. (Bat Rm) 1 @ 100 lbs. (UPS Rm)

C. **DRY AND WET CHEMICAL EXTINGUISHING SYSTEMS**:

BUILDING	NO. OF SYSTEMS	NO. OF CYLINDERS & SIZE	MANUFACTURER/MODEL
16B (Snack Bar)	2	2 @ 15 lbs.	ANSUL
100 (Post Restaurant)	2	2 @ 30 lbs.	ANSUL
32 (New Child Care Center Kitchen)	1	1 @ 15 lbs.	ANSUL

Hazardous Containers

Tracy Site

Bldg. 38/40	4 containers
Whse. 28	2 containers

D. FIRE PUMPS

BUILDING #	PUMP MANUFACTURER	CAPACITY (GPM)	# OF PUMP	POWER DRIVE
TRACY SITE				
28	Aurora	2,500 @ 80 psi	1	Electric
44	ITT/A-C	2,000 @ 100 psi	1	Electric
110	Patterson	2,390 @ 29 psi	1	Electric
220	Patterson	1000 @ 82 psi	3	Electric

E. FIRE HYDRANTS

LOCATION	TYPE	MANUFACTURER	TOTAL # OF HYDRANTS
Tracy	Dry Barrel	USP/KENEDY/GREENBERG	3
	Wet Barrel	CLOW/LONG BEACH	144
	Underground	Greenberg	16

F. DESCRIPTION OF FIRE ALARM SYSTEMS

The following fire alarm systems and equipment shall be maintained and repaired by the Contractor as specified herein.

ABBREVIATIONS

Radio Transmitter Unit	(RTU)
Fire Alarm Control Panel	(FACP)
Manual Pull	(MP)
Horn Strobe	(HS)
Strobe	(STR)
Horn	(HORN)
Bell/Water Gong	(BELL)
Waterflow / Pressure	(WF /P)
Extender Signal Panel	(ESP)
Smoke Detectors	(SD)
Heat Detectors	(HD)
Duct Detector	(DD)
Tamper Switch	(TS)

G. FIRE ALARM SYSTEMS:

BLDG. #	RTU	FACP	MP	H/S	STR	TS	WF/P	BELL	ESP	SD	HD	DD	ACARO 25/ FM200	DRY CHEMICAL
**1	1	1	16	17	6		8	8	1					
3	1	1	16	17	4		8	8	1					
6	1	1	16	16	4		8	8	1					
13	1	1	20	24	4	9	9	9						
14	1	1	21	25	4	19	10	10						
15	1	1	20	31	4	11	11	11						
16	1	1	37	59	6	11	11	11		14	5			2
17	1	1	21	31	4	11	11	11						
18	1	1	16	24	4	8	8	8						
19	1	1	22	25	4	11	11	11						
20	1	1	16	22	4	8	8	8						
21	1	1	21	26	4	10	10	10						
22	1	1	21	28	4	10	10	10						
28	1	1	42	28	10	22	22	12				22		1
29	1	1	20	23	4		10	10						
30	1	1	25	40	4		16			26	14	3		
31	1	1	7	8	8	2	1	1		5	5	2		
32	1	1	9	12	8	2	1	1		39	2	1		1
38/40	1	1	20				1	2			23			
56	1	1	34	64	13		15	8		14	6	2		
57	1	1	26	46	6		6	6	6	2				
58	1	1	34	64	13		15	8		14	6	2		
72	1		1	1			1							
100	1	1	19	32	8					130	33		2	2
101	1													
103	1		2	7						7	1			
115	1		1								1			
116	1		1								1			
201	1	1	12	14			1		1	11	12	3		
205	1													
220	1		3	2										
231	1		6	6	3					18	8			
232	1		6	4	2					5	8			
234	1		4	5						7	9			
237	1									5	7			
238	1													
246	1		4	4		2					4			
247	1		6	8	3					4	18			3
250	1		2	2						3				
255	1	1	10	16		2								
235	1	1	16	59		2	1	1		13	1	3		1
253	1	1	10	15	5	2	1	1		10	1	3		

**Two (2) each King Fisher MPX Alarm Receivers, printers, desk top computers and monitors are located in Bldg. 1A, Central Dispatch.

GAMEWELL / KING FISHER FIRE ALARM CONTROL PANEL AND FIRE ALARM SYSTEM COMPONENT LIST

DESCRIPTION		Model	Manufacturer
Fire Alarm Control Panel			
1.	Fire Alarm Control Panel	Identiflex 650 or 605 7100, & E-3	Gamewell
2.	Extender Signal Panel	ESP-102 & GSPS-9	Gamewell
3.	LCD Keypad Display	LCD-3	Gamewell
Fire Alarm Field Components			
4.	Addressable smoke and Heat Detectors	71037, 71039, ASD-PL2F, & ATD-L2F	Gamewell
5.	Addressable Duct Detector	XP95-PD & INNOVAIRFLEX DNRW	Gamewell
5.	Addressable Manual Pull Stations	MS-95 & MS-7AF	Gamewell
6.	Addressable Point Identification Device	PID-95 & AMM-2F	Gamewell
7.	Addressable Relay Control Element	RCE-95& AOM-2RF, AMM-2F AMM-2IF,AOM-2SF	Gamewell
8.	Addressable Signal Control Element	SCE-95	Gamewell
9.	Manual Pull Stations	M46-29	Gamewell
10.	Conventional Photoelectric Smoke Detector	71033	Gamewell
11.	Automatic Heat Detector	50414 & 50415	Gamewell
12.	Remote Audible/Visual Signaling Device (Horn/Strobe)	GXS-4-1575 & PC2R, P2R, PC2RH P2RH, SR, & SRH	Gentex System Sensor

13.	Electronic Chime/Strobe	71303	Gamewell
14.	Explosion-Proof Horn	FHEX-24	Federal Signal Corp.
15.	Pressure Switch	WFSR-F &	Potter
16.	Waterflow Switch	VSR-F	Potter
Receiver and Antenna			
17.	Radio Alarm Control Panel/RTU	KTRT 1-20/52	King-Fisher
18.	Antenna		King-Fisher

1.1.1.1.1 REFERENCES AND STANDARDS

A. Materials provided by the Contractor shall comply with the following specifications and standards, as specified in the "CONTRACTOR FURNISHED ITEMS" clause.

1. American National Standards Institute, Inc. (ANSI)

ANSI B16.3 Malleable Iron Threaded Fittings

ANSI B16.11 Forged Steel Fittings, Socket-Welding Threaded

ANSI C80.1 Rigid Steel Conduit, Zinc Coated

ANSI C80.3 Electrical Metallic Tubing, Zinc Coated

2. American Society for Testing Materials (ASTM)

ASTM A53 Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless

ASTM A106 Seamless Carbon Steel Pipe for High-Temperature Service

3. American Water Works Association (AWWA)

AWWA C502 Dry-Barrel Fire Hydrants

4. Manufacturers Standardization Society of Valve and Fittings Industry (MSS)

MSS SP70 Cast Iron Gate Valves, Flanged and Threaded Ends

MSS SP71 Cast Iron Swing Check Valves, Flanged and Threaded Ends

MSS SP80 Bronze Gate, Globe, Angle and Check Valves

5. National Association of Plumbing-Heating-Cooling Contractors (NAPHCC)

NAPHCC NSPC National Standard Plumbing Code

6. National Electrical Manufacturers Association (NEMA)

NEMA WC3 Rubber-Insulated Wire and Cable for the Transmission and Distribution of Electrical Energy

NEMA WC5 Thermoplastic-Insulated Wire and Cable for Transmission and Distribution of Electrical Energy

7. National Fire Protection Association (NFPA)

NFPA 13 Standard for the Installation of Sprinkler Systems

NFPA 14 Standard for the Installation of Standpipe, Private Hydrant, and Hose Systems

NFPA 17 Dry Chemical Extinguishing Systems

NFPA 17A Wet Chemical Extinguishing Systems

NFPA 20 Standard for the Installation of Stationary Pumps for Fire Protection

NFPA 25 Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems

NFPA 70 National Electrical Code

NFPA 291 Fire Flow Testing and Marking of Hydrants

8. Underwriters Laboratories (UL)

UL 199 Automatic Sprinklers for Fire-Protection Service