INSTALLATION PLAN

Scale:1/8" = 1'-0

PARKING GARAGE LEVEL 4

SCALE: 1/8"=1'-0" (WET) CPVC (DRY) SCH. 10 & 40 STEEL PIPE

PLAN NORTH

BUILDING 5 / BUILDING 1

LEVEL 4 PARKING GARAGE

UP TO 5TH LEVEL

FROM 3RD LEVEL UP TO 4TH LEVEL

RAMP UP

RAMP DN

*SLOPE BRANCH LINES 1/2" PER 10' FOOT AND SLOPE MAINS 1/4" PER 10' FOOT

STAIR #9

TRASH

PIPING FOR HEAD IN TRASH CHUTE

HEAD UNDER STAIR LANDING

2 HR FIREWALL

A1 ALT. A

A1 PART. 6

B1 ALT. J

B2 PART. 1

A2-SP

A2 PART. 2

ELEV.

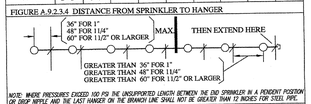
E1

T.D

HANGER SPACING CHART

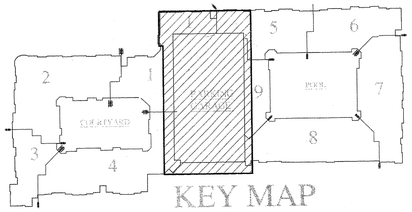
TABLE 9.2.2.1 MAXIMUM DISTANCE BETWEEN HANGERS (FT-IN.)								
PIPE SIZE (IN)	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	6
STEEL PIPE	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0
THREADED									
LIGHTWALL	N/A	12-0	12-0	12-0	12-0	12-0	12-0	N/A	N/A
COPPER	8-0	8-0	10-0	10-0	12-0	12-0	12-0	15-0	15-0
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	N/A	N/A

FIGURE A.9.2.3.4 DISTANCE FROM SPRINKLER TO HANGER



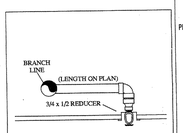
NOTE: WHERE PRESSURES EXCEED 100 PSI THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER IN A PENDENT POSITION OR DROP NIPPLE AND THE LAST HANGER ON THE BRANCH LINE SHALL NOT BE GREATER THAN 12 INCHES FOR STEEL PIPE.

TABLE 9.1.2.1 HANGER ROD SIZES			
PIPE SIZE	DIAM. OF ROD	PIPE SIZE	DIAM. OF ROD
UP TO AND INCLUDING 4"	3/8"	6 AND 8	1/2"



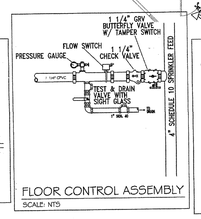
KEY MAP

NTS



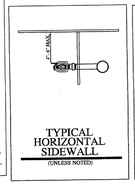
TYPICAL DROP DETAIL

N.T.S.



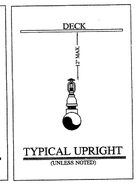
FLOOR CONTROL ASSEMBLY

SCALE: NTS



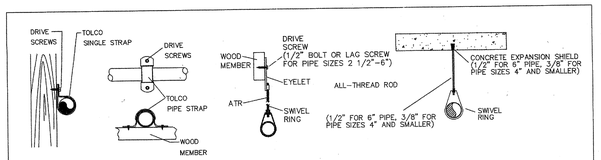
TYPICAL HORIZONTAL SIDEWALL

(UNLESS NOTED)



TYPICAL UPRIGHT

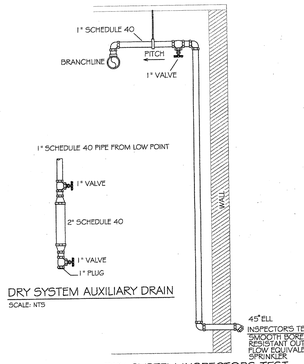
(UNLESS NOTED)



ON CPVC PIPE | ON CPVC PIPE | STEEL PIPE IN BUILDING | STEEL PIPE IN GARAGE

TYPICAL HANGER DETAILS

SCALE: NTS



DRY SYSTEM AUXILIARY DRAIN

SCALE: NTS

DRY SYSTEM INSPECTORS TEST

SCALE: NTS

SLEEVE SCHEDULE	
PIPE SIZE	SLEEVE DIA.
1"	2"
1-1/4"	2"
1-1/2"	2-1/2"
2"	3"
2-1/2"	4"
3"	5"
4"	5"
5"	6"
6"	8"
8"	10"

LEGEND:

- SYSTEM RISER
- 4" X 2 1/2" X 2 1/2" F.D.C.
- VERTICAL PIPE (UP or DN)
- HYDRAULIC NODE POINT
- REMOTE AREA OUTLINE
- 2 1/2" HOSE VALVE
- BUTTERFLY VALVE
- HANGERS (SIZE VARIES)
- (19'-0") CEILING ELEVATION
- [20'-9"] ℄ PIPE ELEVATION

GENERAL NOTES:

1. Ranger Fire's work shall consist of all necessary labor and material to design and install new automatic fire sprinkler systems in the referenced (9) Apartment Buildings and attached Parking Garage.
2. Ranger Fire excludes all electrical and ceiling work.
3. All design and installation shall conform to NFPA 13, 13R, 14, 20, & and the City of Addison requirements.
4. All material to be UL/FM approved for fire services.
5. All new plastic piping shall be Schedule 40 CPVC with CPVC plastic fittings (u.o.n.). All steel piping shall be Black Sch. 10 with grooved fittings for the mains and Black Sch. 40 with threaded fittings for the branchlines.
6. Owner or tenant is responsible for maintaining adequate heat to prevent the system from freezing (Min. 40 degrees F.).
7. Sprinkler equipment room and equipment components shall be properly identified.
8. Install signage on sprinkler equipment room door stating "Sprinkler Valve Room" in at at least 4 inches in height.
9. All hangers shall be in accordance with NFPA 13 requirements.
10. All systems shall be tested at 200 psi for 2 hours and witnessed by a representative of the Addison Fire Department. Any leaks shall be repaired.
11. The system has been hydraulically calculated per NFPA 13, 13R, 14, & 20 requirements.
12. Install Black steel piping in Parking Garage.

RESIDENTIAL BUILDING INFO
OCCUPANCY: R-2 / A-3
GROSS BLDG AREA: 424,139 S.F.
TYPE OF CONSTRUCTION: V-A
GARAGE BUILDING INFO
OCCUPANCY: S-2
GROSS BLDG AREA: 181,834 S.F.
TYPE OF CONSTRUCTION: 2-B

I have reviewed these plans and certify that they comply with the adopted NFPA standards.

Ranger Fire, Inc.
1000 South Main Street
Suite 150
Grapevine, Texas 76051
Phone: 817-410-9070
SCR- 0590

RME SIGNATURE:

PRINTED RME NAME: Matthew B. Claxton

RME NUMBER: 0778 DATE: 7-31-13

☒ AS-BUILT ☐ SUBMITTAL ☐ OTHER

AS-BUILT

SYM	MAKE	MODEL	SIN	K (ORIFICE)	TEMP	FINISH	ESCUTCHEON
●	RELIABLE	FR RFS 4P PENDENT	R3316	4.9	175°	WHITE	PS ESC
▼	RELIABLE	FR RFS 4 HSW	R3554	5.4	175°	WHITE	PS ESC
▼	RELIABLE	FR RFS 4 HSW	R3551	5.4	175°	CHROME	PS ESC
○	RELIABLE	FR PK UPRIGHT	R1425	5.6	200°	BRASS	NONE

QTY	GENERAL CONTRACTOR:
BLDG.	- EMBREY PARTNERS LTD
35	- 1000 NE LOOP 410 STE 700
4	- SAN ANTONIO, TX
215	- 210-824-4044
	OWNER:
	- EMBREY PARTNERS LTD
	- 1000 NE LOOP 410 STE 700
277	- SAN ANTONIO, TX
	- 210-824-4044

TOTAL FOR THIS SHEET:

CONFIDENTIALITY STATEMENT
This plan/drawing and all information herein contained, is the property of Ranger Fire and is loaned upon the express understanding that it will be used only for the purpose for which it is specifically issued and shall not be loaned, copied or disclosed to any unauthorized person without the written consent of Ranger Fire's Management.

REV #	REVISIONS:	DATE:	BY:

RANGER FIRE, INC.
920 SOUTH MAIN STREET
SUITE 200
GRAPEVINE, TEXAS 76051
PHONE: 817.410.9070
TEXAS L LICENSE: 0590

☐ AS-BUILT ☐ SUBMITTAL ☐ OTHER

RANGER FIRE

KELLER SPRINGS LOFTS
4800 KELLER SPRINGS PKWY
ADDISON, TEXAS 75001

CONTRACT NAME:

DESCRIPTION: 4TH FLOOR

CONTRACT # 11-055

SCALE:	1/8" = 1'-0"
DRAWN BY:	ALEXANDER
CHECKED BY:	
DATE:	04-01-12
DWG #:	FP 20 OF 30