

4th FLOOR
INSTALLATION PLAN
 Scale 1/8" = 1'-0"

LINES 1/2" PER 10' FOOT

HANGER SPACING CHART

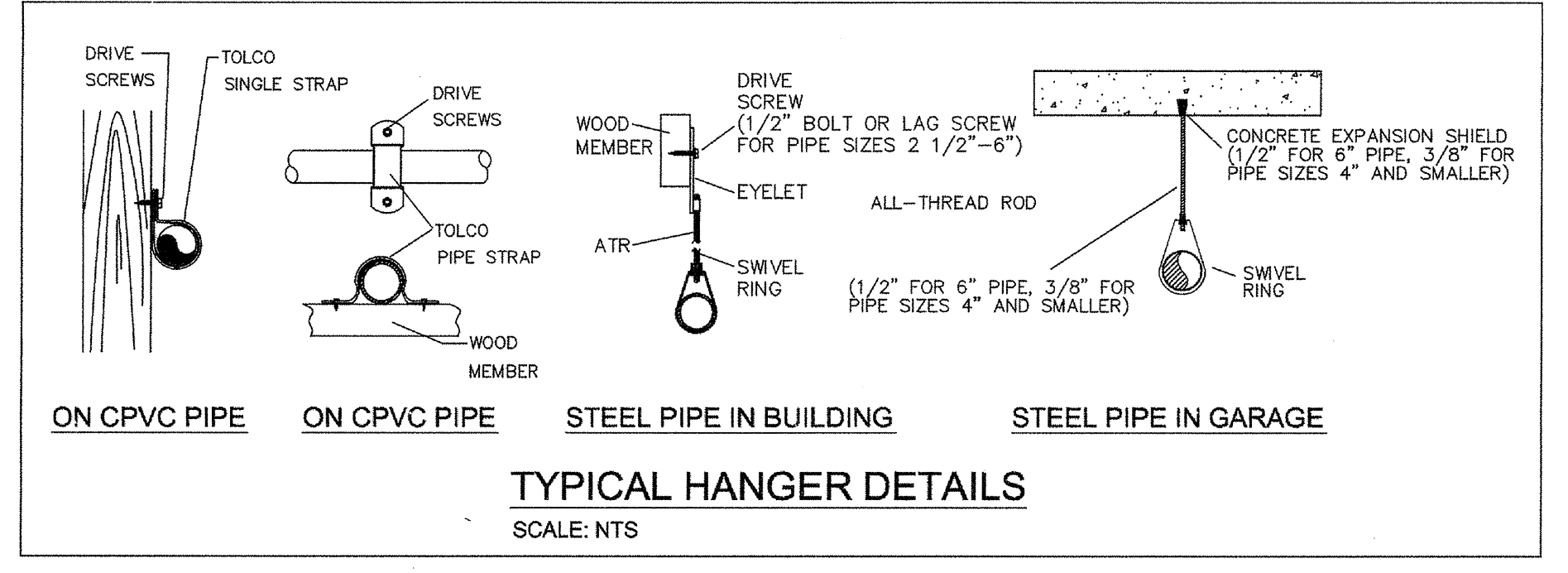
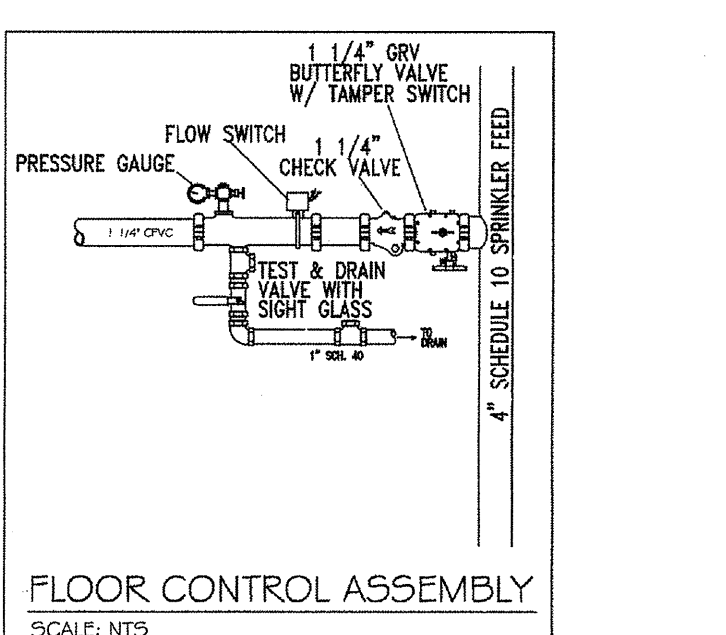
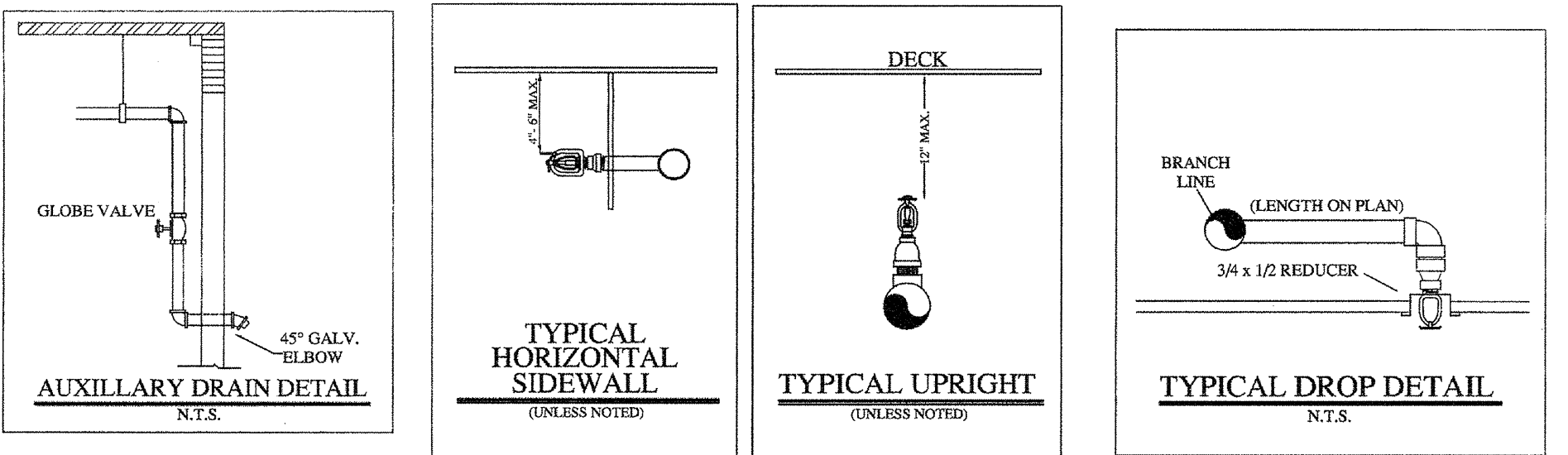
PIPE SIZE (IN)	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	6
STEEL PIPE	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0
THREADED	N/A	12-0	12-0	12-0	12-0	12-0	N/A	N/A	N/A
COPPER	8-0	8-0	10-0	10-0	12-0	12-0	12-0	15-0	15-0
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	N/A	N/A

FIGURE A.9.2.3.4 DISTANCE FROM SPRINKLER TO HANGER

NOTE: WHEN PRESSURES EXCEED 100 PSI THE SPACINGS BETWEEN THE END SPRINKLER IN A BRANCHLINE POSITION OF BRANCHLINE AND THE LAST HANGER ON THE BRANCHLINE SHALL NOT BE GREATER THAN 1/2 HANGERS FOR STEEL PIPE.

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"

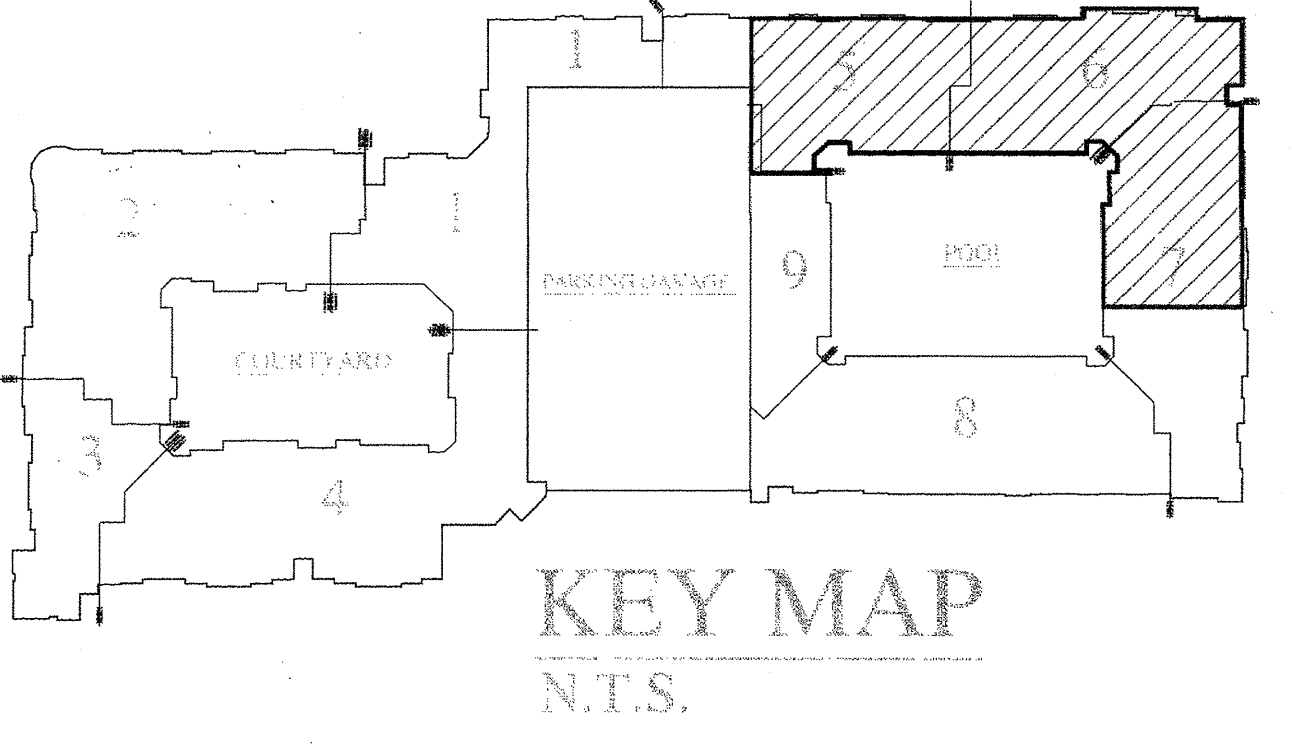


TYPICAL HANGER DETAILS
SCALE: NTS

GENERAL NOTES:

- 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.
- Ranger Fire excludes all electrical and ceiling work.
- All design and installation shall conform to NFPA 13, 13R, 14, 20, & the City of Addison requirements.
- All material to be UUFM approved for fire services.
- 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.
- Owner or tenant is responsible for maintaining adequate heat to prevent the system from freezing (Min. 40 degrees F.).
- Sprinkler equipment room and equipment components shall be properly identified.
- Install signage on sprinkler equipment room door stating "Sprinkler Valve Room" in at least 4 inches in height.
- All hangers shall be in accordance with NFPA 13 requirements.
- 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.
- The system has been hydraulically calculated per NFPA 13, 13R, 14, & 20 requirements.
- Install Black steel piping in Parking Garage.

- 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)
 - CEILING ELEVATION
 - PIPE ELEVATION



KEY MAP
N.T.S.

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: *Matthew B. Claxton*
 PRINTED RME NAME: **Matthew B. Claxton**
 RME NUMBER: **0778** DATE: **7-31-13**
 AS-BUILT SUBMITTAL OTHER

AS-BUILT

RANGER FIRE, INC.
 920 SOUTH MAIN STREET
 SUITE 200
 GRAPEVINE, TEXAS 76051
 PHONE: 817-410-9070
 TEXAS LICENSE: 0590

AS-BUILT SUBMITTAL OTHER

KELLER SPRINGS LOFTS
 4800 KELLER SPRINGS PKWY
 ADDISON, TEXAS 75001

CONTRACT NAME: **RANGER FIRE**
 CONTRACT # 11-055
 DESCRIPTION: 4TH FLOOR

SCALE: 1/8" = 1'-0"
 DRAWN BY: **C. ALEXANDER**
 CHECKED BY:
 DATE: 04-01-12
 DWG #: **FP 18 OF 30**

CONFIDENTIALITY STATEMENT
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REV #	DATE	DESCRIPTION
1	04-01-12	ISSUE FOR PERMIT
2	04-01-12	ISSUE FOR PERMIT
3	04-01-12	ISSUE FOR PERMIT
4	04-01-12	ISSUE FOR PERMIT
5	04-01-12	ISSUE FOR PERMIT
6	04-01-12	ISSUE FOR PERMIT
7	04-01-12	ISSUE FOR PERMIT
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30	04-01-12	ISSUE FOR PERMIT