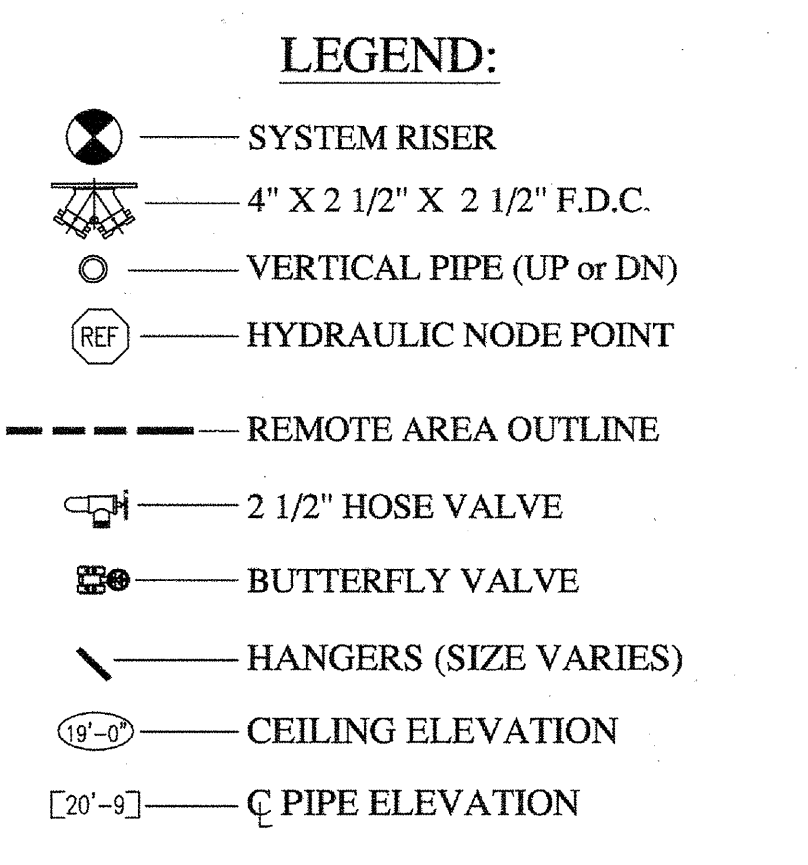
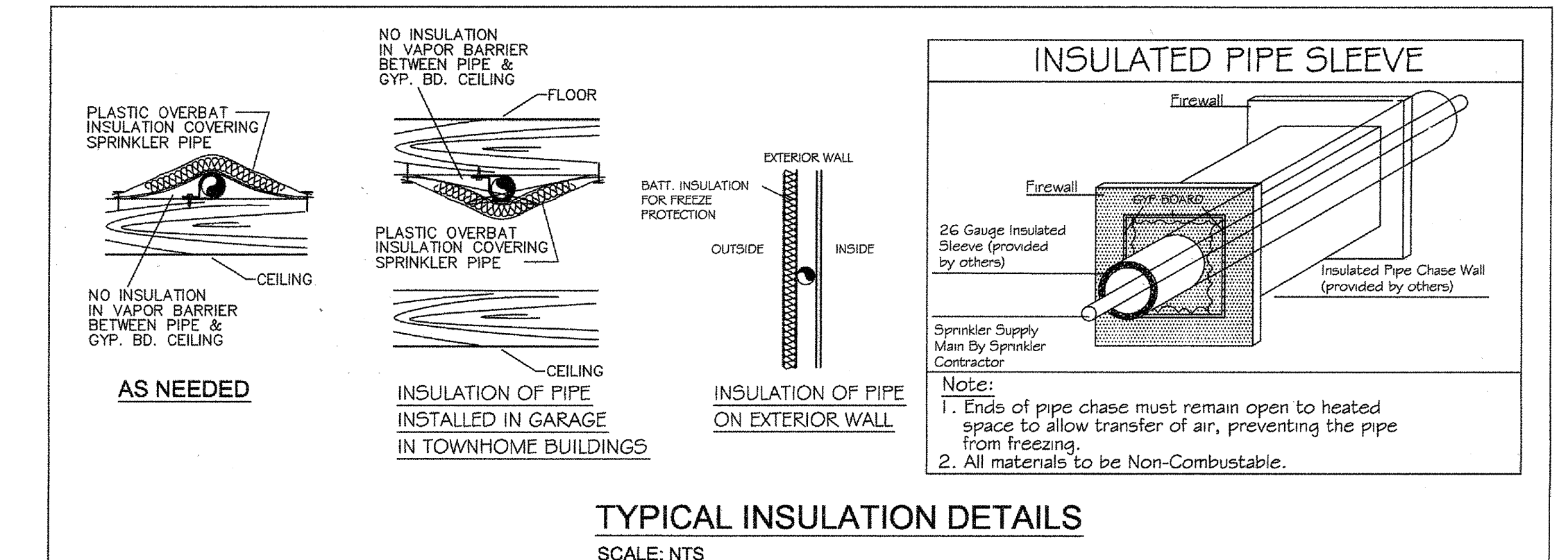
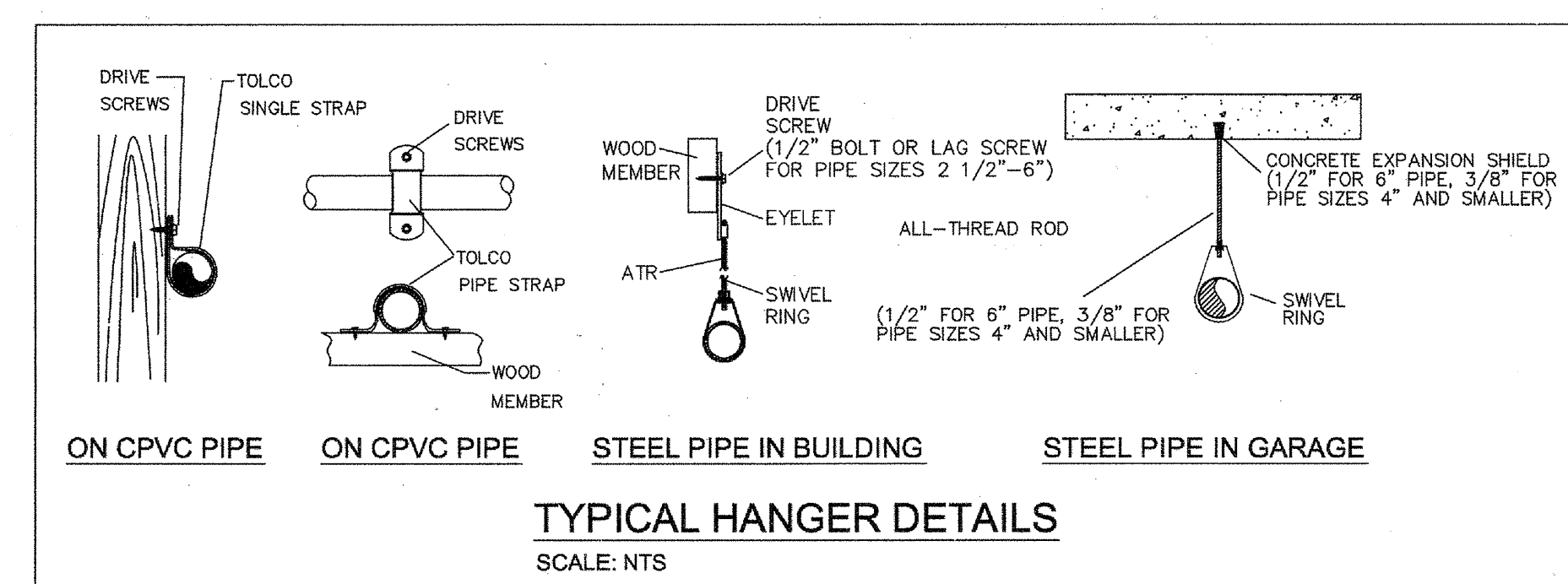
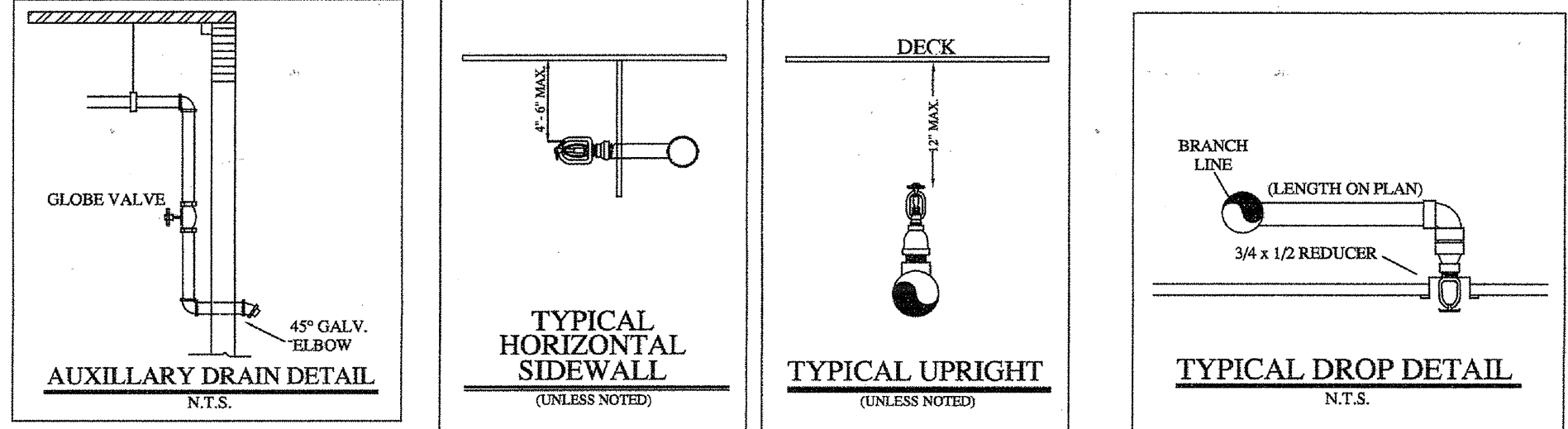
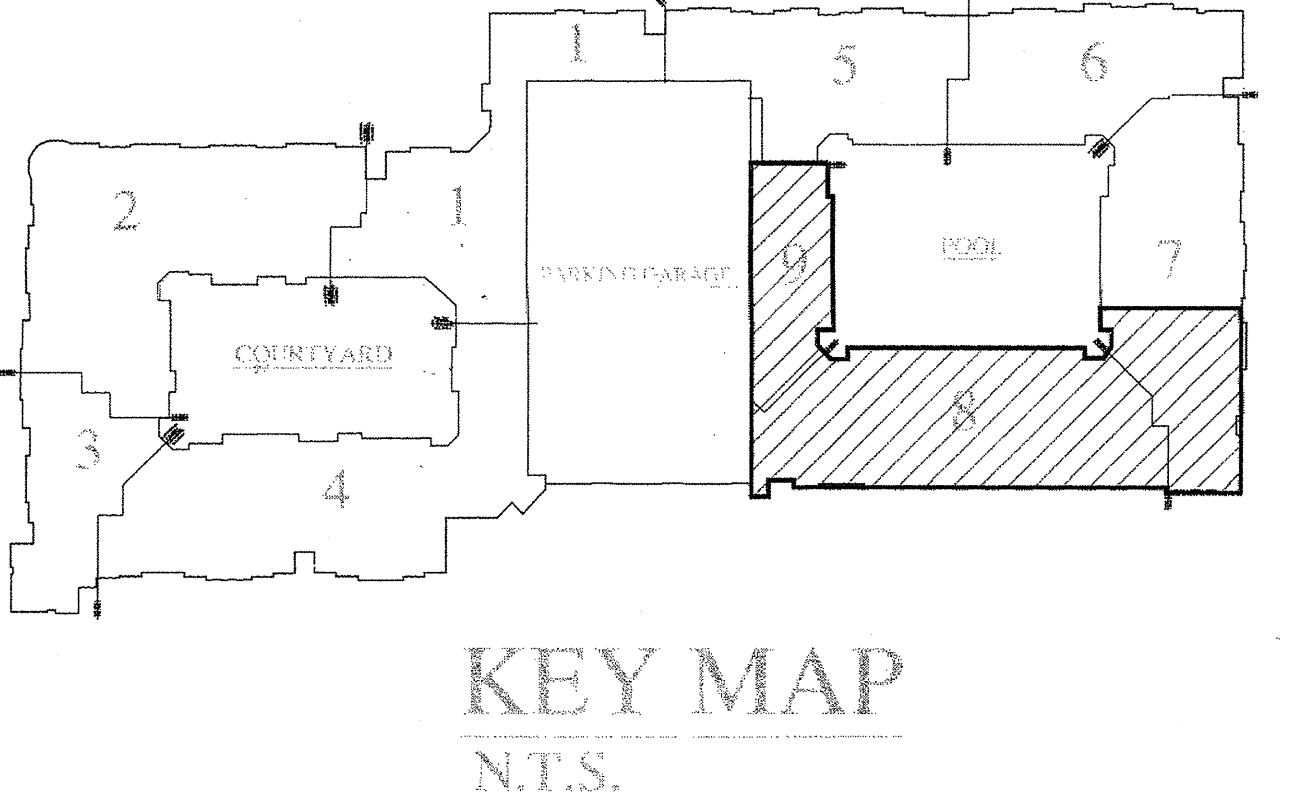


PIPE SIZE	SLEEVE DIA.
1"	2"
1-1/4"	2"
1-1/2"	2-1/2"
2"	3"
2-1/2"	4"
3"	5"
4"	6"
6"	8"
8"	10"



- 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 UL/FM 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.

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



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

36" FOR 1"
 48" FOR 1 1/4"
 60" FOR 1 1/2" OR LARGER

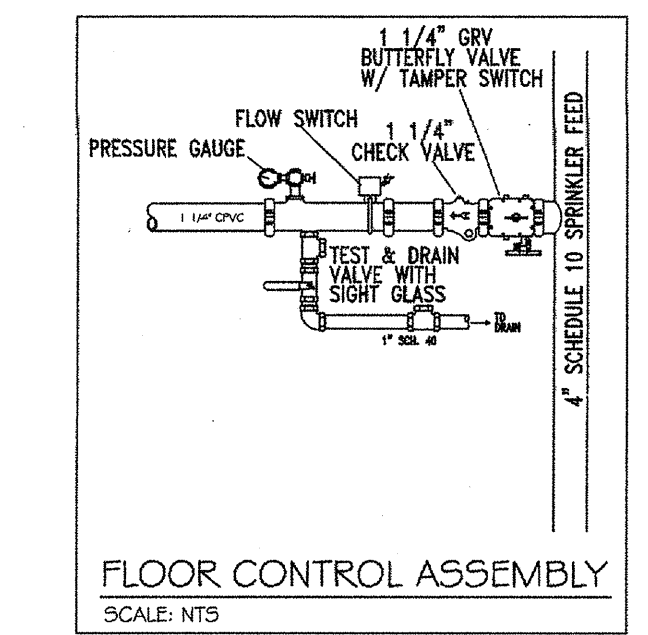
MAX. THEN EXTEND HERE

GREATER THAN 36" FOR 1"
 GREATER THAN 48" FOR 1 1/4"
 GREATER THAN 60" FOR 1 1/2" OR LARGER

NOTE: WHERE PREVIOUS CODES DO NOT SPECIFY THE UNSPACED LENGTH BETWEEN THE END SPRINKLER IN A PENDENT POSITION OR DROP PIPE 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"



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

AS-BUILT

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: *[Signature]*
 PRINTED RME NAME: Matthew B. Claxton
 RME NUMBER: 0778 DATE: 7-31-13

AS-BUILT SUBMITTAL OTHER

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

AS-BUILT SUBMITTAL OTHER

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GENERAL CONTRACTOR: EMERGENCY PARTNERS LTD.
 1000 NEL LOOP 410, STE. 700
 SAN ANTONIO, TX 78242-6994
 210-824-6994

OWNER: EMERGENCY PARTNERS LTD.
 1000 NEL LOOP 410, STE. 700
 SAN ANTONIO, TX 78242-6994

DATE: 04-01-12
SCALE: 1/8" = 1'-0"
CONTRACT #: 11-05
DESCRIPTION: 1st FLOOR

KEY: 1/8" = 1'-0"
 DRAWN BY: C. ALEXANDER
 CHECKED BY: [Signature]
 DATE: 04-01-12
 PLOT #: