NOTES

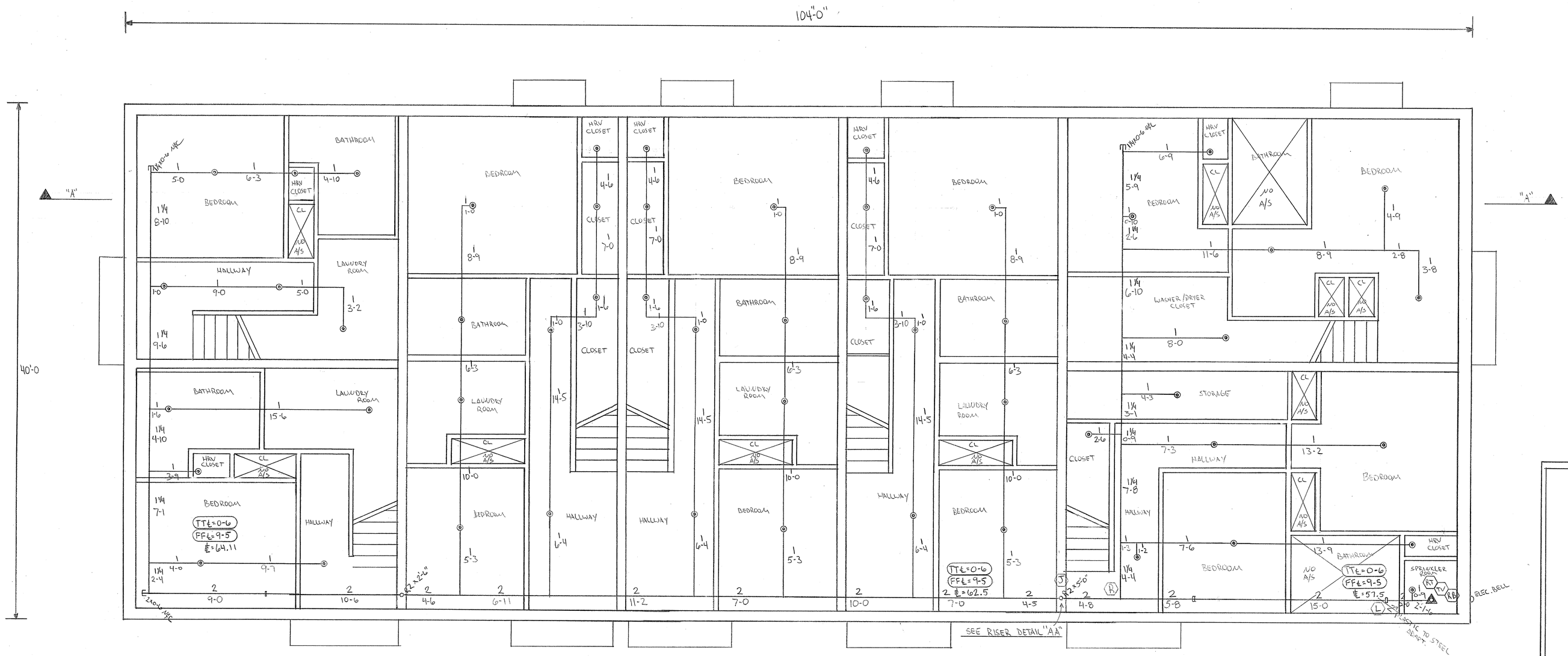
1) OCCUPANCY: CONDOMINIUMS - RESIDENTIAL, 16 x 16
2) DESIGN BASIS: HYDRAULICALLY CALCULATED NFPA #13R WET SPRINKLER SYSTEM (SEE HYDRAULIC STAMP)
3) ALL SPRINKLER ROOM PIPING 2" AND SMALLER TO BE BLACK STEEL SCHEDULE 40. ALL FITTINGS FOR STEEL PIPE TO BE CAST IRON SCREWED OR GROOVED. ALL OTHER PIPING TO BE CPVC BLAZEMASTER WITH PLASTIC FITTINGS.
4) ALL PIPE AND HANGER DIMENSIONS ARE CENTERLINE TO CENTERLINE. CUT LENGTHS TO BE PROVIDED FOR FABRICATION AND INSTALLATION.
5) TT & DENOTES TOP OF WOOD TRUSS TO CENTERLINE OF PIPE.
6) FF& DENOTES FINISHED FLOOR TO CENTERLINE OF PIPE.
7) OWNER TO PROVIDE SUFFICIENT HEAT (MIN 40°F) TO PREVENT SPRINKLER PIPING FROM FREEZING.
8) OWNER: REDFERN PROPERTIES, LLC (207) 221-5746
P.O BOX 8816, PORTLAND, ME 04104
9) ARCHITECT: KAPLAN THOMPSON - PORTLAND, ME

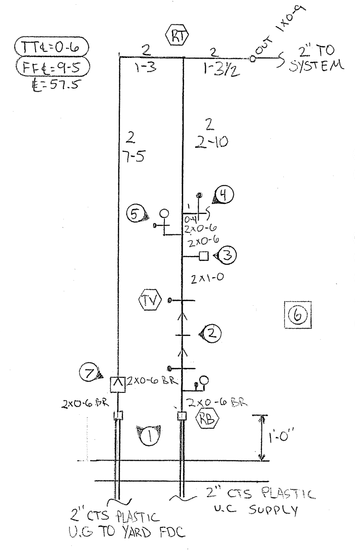
WATER SUPPLY

FLOW TEST BY PORTLAND WATER DISTRICT — MAY 31, 2002
WATER WAS FLOWED FROM HYD #327 ON PARK ST. OPPOSITE GRAY ST. FROM AN 8" CIRCULATING CITY MAIN. TEST GAUGES READ FROM HYD #135 ON DANFORTH ST. AT PARK ST.

STATIC: 76 PSI
RESIDUAL: 74 PSI w/963 GPM FLOW
ELEVATION: 70.5

LEGEND
- CVPC COUPLING
- HYDRAULIC REFERENCE POINT

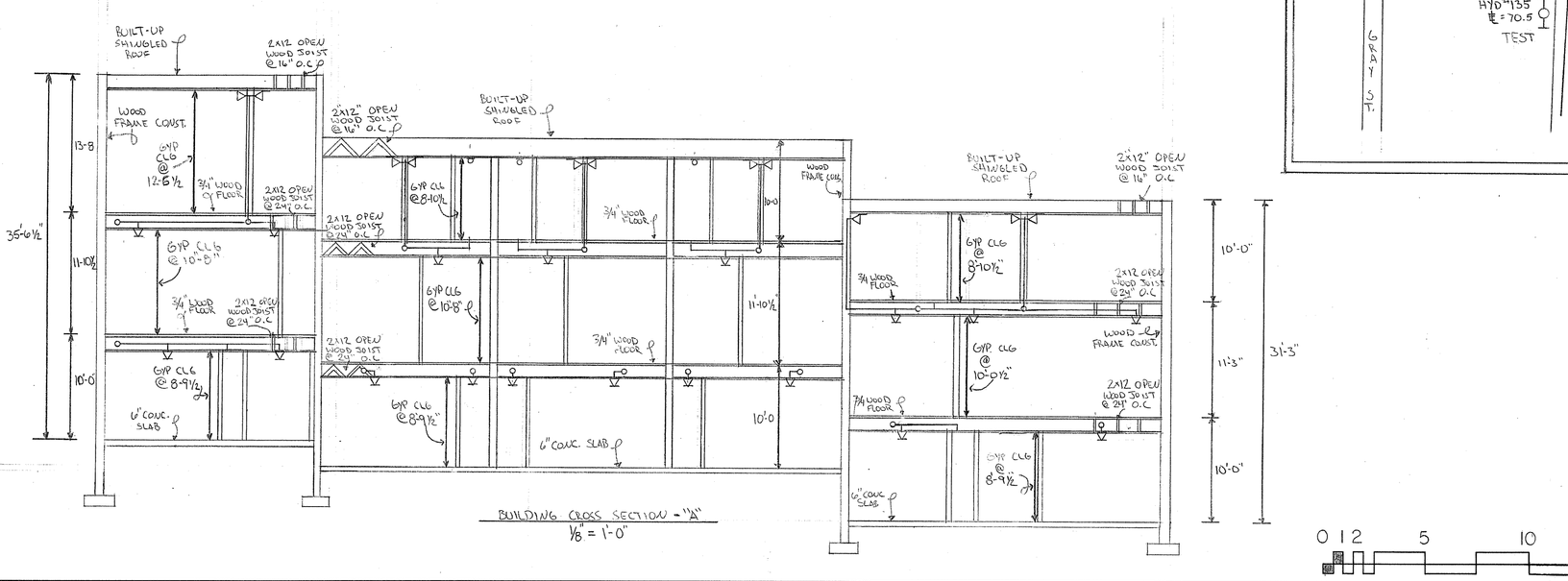




WET RISER DETAIL
SCALE = 1/2" = 1'-0"

1) 2" FORD COUPLING - PLASTIC TO BRASS (2-REQ'D.)
2) 2" DOUBLE CHECK BACKFLOW PREVENTOR W/2-2" BALL VALVES SEALED OPEN - APOLLO DCVA
3) 2" FLOW SWITCH
4) 1" TEST AND DRAIN VALVE WITH 1/2 TEST (PIPED OUTSIDE)
5) 1/4 WATER PRESSURE GAUGE
6) 6 HEAD SPRINKLER CABINET
7) 2" SCR SWING CHECK VALVE

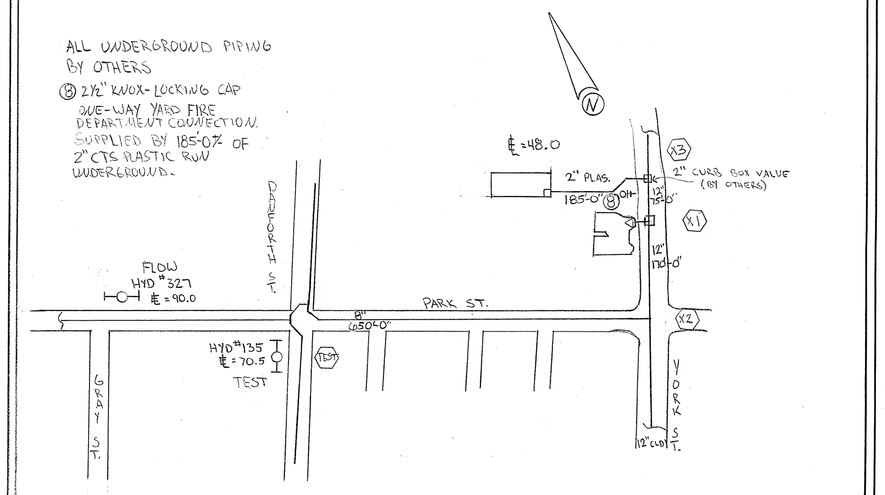
FIRST FLOOR - 41160 S.F.
SCALE 1/4" = 1'-0"



BUILDING CROSS SECTION - "A"
1/8" = 1'-0"

PLOT PLAN
1" = 150'-0"

ALL UNDERGROUND PIPING BY OTHERS
③ 2 1/2" KNOX-LOCKING CAP
ONE-WAY YARD FIRE DEPARTMENT CONNECTION SUPPLIED BY 185-07 OF 2" CTS PLASTIC R/W UNDERGROUND.



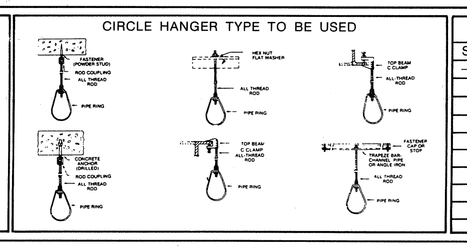
0 1 2 5 10

HYDRAULIC DESIGN CRITERIA

Density	.05
Remote Area	4 HEADS CALC.
K Factor	4.4 Head Size 1/2 x 1/2
Hose Allowance	
Water Supply	MAY 31, 2002
Static	76 PSI
Residual	74 PSI
Water Flowing	963
Size of Supply	8"

1. Type of Hazard RESIDENTIAL 2. Deflector Distance 4"-6"
3. Pipe Type Used BLACK STEEL SCH 40 4. Sprinkler Area 11,507 S.F.
5. Type of Construction WOOD FRAME - COMBUSTABLE
6. Maximum Spacing Allowed 18 x 18 (PEIRS) 16 x 16 (NFPA)
7. PIPE SIZING METHOD; PIPE SCHEDULE ☐ HYDRAULICALLY CALCULATED ■
8. ALL HANGERS AND LOCATIONS TO BE IN ACCORDANCE WITH N F P A PAMPHLET NO. 13
9. HIGH DEGREE TEMPERATURE SPRINKLER HEADS TO BE INSTALLED IN ACCORDANCE WITH N F P A PAMPHLET NO. 13

CIRCLE HANGER TYPE TO BE USED



HANGERS

Symbol	Description
1	3/8 CARLISLE SUPER STEEL
	1,000# GST 20
	1,000# SWB 20

ABBREVIATIONS

B	Bottom of Beam
D	Bottom of Deck
P	Bottom of Pipe
HV	Hose Valve
N & C	Nipple and Cap
NIC	Not in Contract
NTS	Not to Scale
OBJ	Open Bar Joists
PRV	Pressure Red Valve
RM	Roof Manifold
SP	Standpipe
TOB	Top of Beam
TOP	Top of Pipe
TOS	Top of Steel
UON	Unless Otherwise Noted
℄	Centerline
NAS	No Automatic Sprinklers
OTA	Open To Above

CONTRACT RESPONSIBILITIES

ITEM	FPC	OTHERS
STREET CONN		
U/GD MAIN		
EXCAVATION		
FLUSHING		
WIRING		
PAINTING		
TAMPER SWITCHES		
FLOW SWITCHES		
CUT & PATCHING		

SPRINKLER HEAD LEGEND

SYMBOL	MAKE	MODEL	FINISH	TYPE	TEMP.	N.P.T.	ORIFICE	K-FACTOR	TOTAL
	RELIABLE	F1RES 49	WHITE	PEND.	155°	1/2"	1/2"	4.9/R3816	43 / 33
▽	RELIABLE	F1RES 44	WHITE	REC. WALL	155°	1/2"	1/2"	4.4/R2531	0 / 48
								TOTALS	43 / 131

SUBMITTALS

SENT TO	DATE SENT	DATE RECEIVED
ISO	☐	
FM	☐	
LM	☐	
IRI	☐	
LA	☐	
STATE FIRE	■	
LOCAL FIRE	■	
LOCAL WATER	☐	
OWNER	■	
	☐	

LICENSE # 093 PERMIT #
R.M.S. # 278

SPRINKLER SYSTEMS INC.
P.O. BOX 1285
LEWISTON MAINE
04240

HARBORVIEW TOWNHOMES
121 YORK STREET
PORTLAND, ME 04101

CONTRACT WITH OWNER

SYSTEM TYPE	
WET	■
DRY	☐
DELUGE	☐
PREACTION	☐
ME. LIFE	☐
	☐

REVISIONS		
NO.	DATE	DESCRIPTION

SCALE 1/4" = 1-0
DRAWN BY RDO
CHECKED BY SEG
DATE 10-16-12
TOTAL SPKRS ON JOB 131
SHEET # 1 OF 2
JOB # 12070

W02005