NOTES

1) OCCUPANCY: SINGLE-FAMILY DWELLING - RESIDENTIAL.
2) DESIGN BASIS: HYDRAULICALLY CALCULATED NFPA 13-D WET SPRINKLER SYSTEM. (SEE HYDRAULIC DATA STAMP).
3) ALL PIPING TO BE CPVC PLASTIC BLAZEMASTER WITH CPVC PLASTIC FITTINGS. SPRINKLER RISER TO BE BLACK STEEL SCHEDULE 40 WITH CAST-IRON FITTINGS.
4) ALL PIPE AND HANGER DIMENSIONS ARE CENTERLINE TO CENTERLINE.
5) T/JL DENOTES TOP OF WOOD TJI TO CENTERLINE OF PIPE.
6) B/JL DENOTES BOTTOM OF WOOD TJI TO CENTERLINE OF PIPE.
7) FF/L DENOTES FINISHED FLOOR TO CENTERLINE OF PIPE.
8) OWNER TO PROVIDE SUFFICIENT HEAT (MIN 40°F) IN ALL OCCUPIED AREAS OF THE BUILDING AT ALL TIMES.
9) OWNER: PETER & DEBBY MURRAY
104 NORTH STREET
PORTLAND, MAINE 04101
10) ARCHITECT: KAPLAN THOMPSON ARCHITECTS - PORTLAND, MAINE

WATER SUPPLY

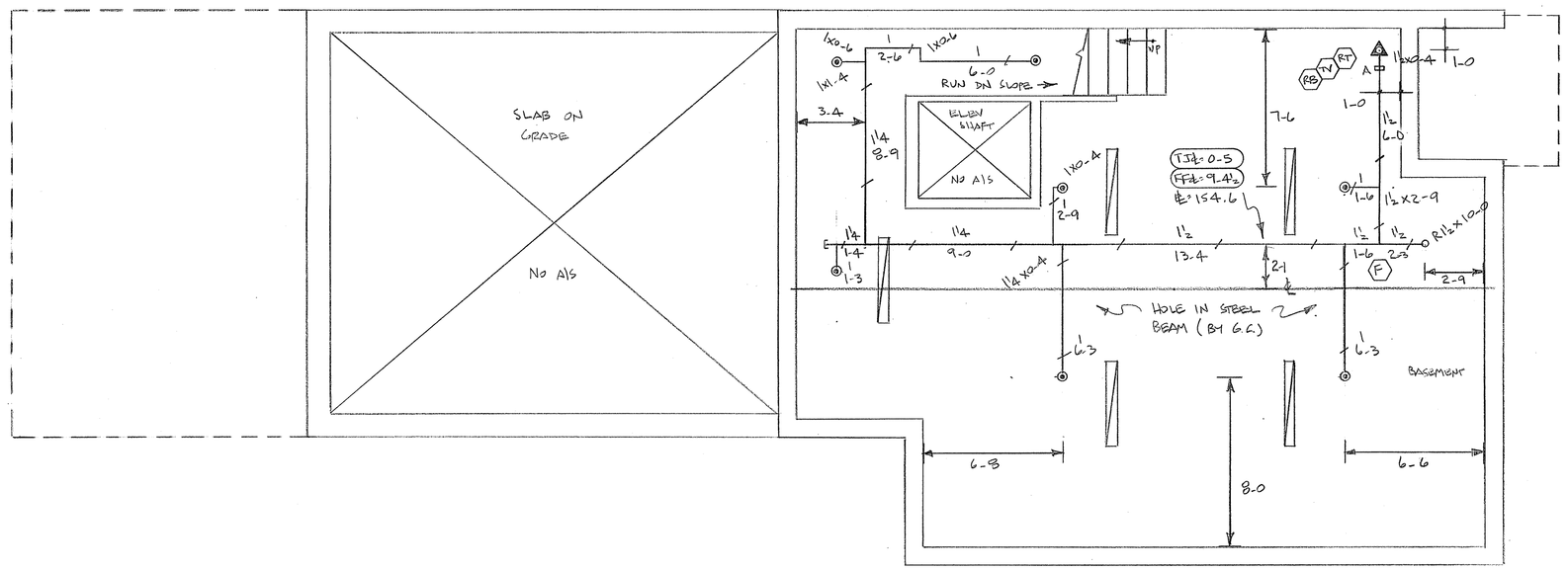
FLOW TEST BY PORTLAND WATER DISTRICT — MARCH 27, 2006

WATER WAS FLOWED FROM HYDRANT #305 ON NORTH STREET AT MELBOURNE STREET, APPROXIMATELY 350'-0" FROM THE BUILDING FROM A 12" CIRCULATING CITY MAIN. TEST HYDRANT #304 LOCATED ON NORTH STREET AT QUEBEC STREET, APPROXIMATELY 730'-0" FROM THE BUILDING.

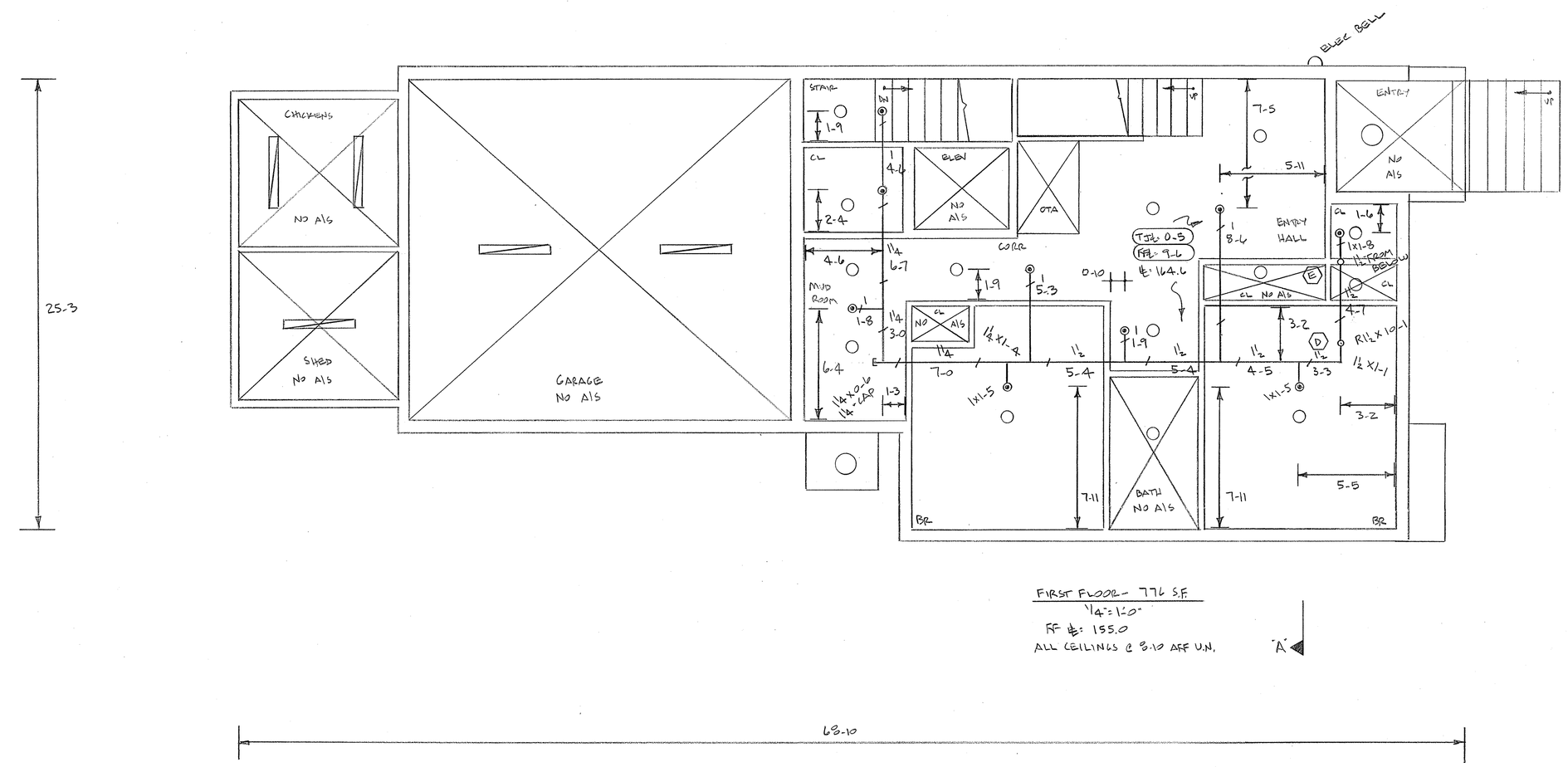
STATIC: 44 PSI
RESIDUAL: 37 PSI WITH 1518 GPM FLOW
℄= 157.0

LEGEND

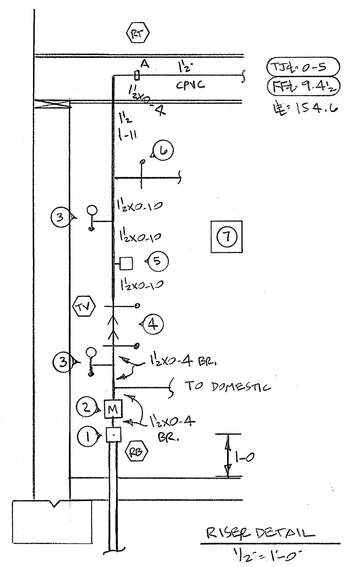
- HYDRAULIC REFERENCE POINT
- SCREWED OR GROOVED COUPLING
- PLASTIC TO STEEL ADAPTOR



BASEMENT LEVEL - 732 S.F.
1/4"=1'-0"
FF ℄= 145.1½
ALL CEILINGS @ 8'-8 AFF U.N.

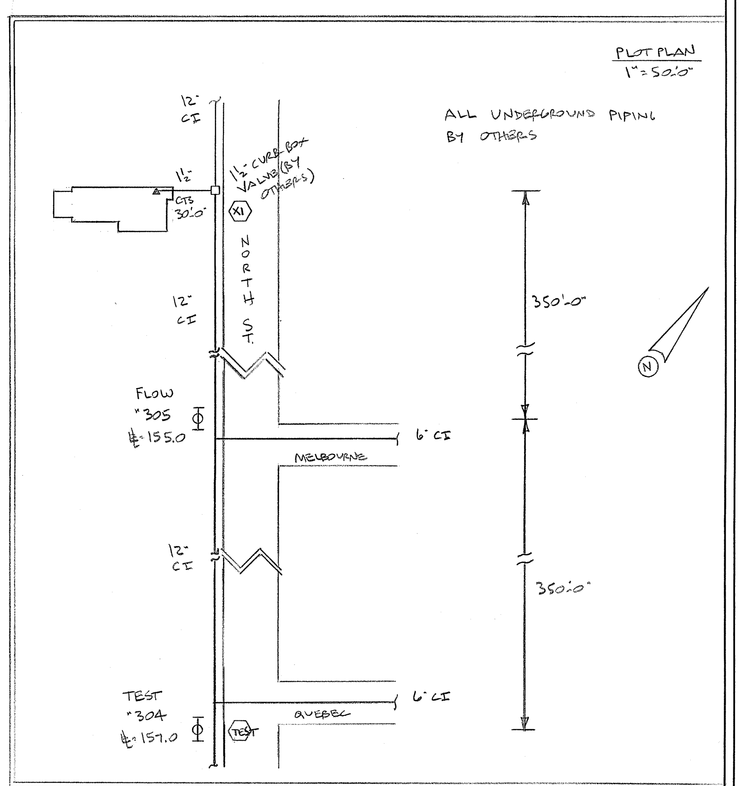


FIRST FLOOR - 776 S.F.
1/4"=1'-0"
FF ℄= 155.0
ALL CEILINGS @ 8'-10 AFF U.N.



RISER DETAIL
½"=1'-0"

1. 1½" FORD COUPLING (BY OTHERS)
2. WATER METER (BY OTHERS)
3. FROM 1½"x¼" RED. BUSHING ¼"x0.2 TO ¼" 3-WAY BALL VALVE ¼" WATER PRESSURE GAUGE (2-REQ'D)
4. 1½" DOUBLE CHECK BACKFLOW PREVENTOR W/2-1½" BALL VALVES SEALED OPEN - APOLLO DC4A
5. 1¼" FLOW SWITCH
6. FROM 1"x0.6 NIP TO 1" TEST & DRAIN - ALF 1000 1" PIPED TO OUTSIDE
7. 6 HEAD SPRINKLER CABINET W/WRENCH



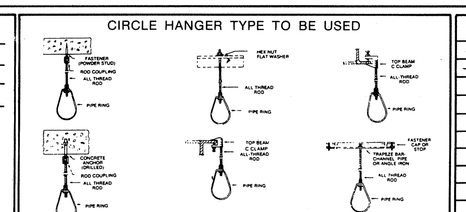
0 1 2 5 10

HYDRAULIC DESIGN CRITERIA

Density .05 GPM / SF
Remote Area 2 HEAD CALC
K Factor 4.9 Head Size ½x½"
Hose Allowance —
Water Supply 3/27/2006
Static 44 PSI
Residual 37 PSI
Water Flowing 1518 GPM
Size of Supply 12" CI

1. Type of Hazard LIGHT - RES. 2. Deflector Distance 1" TO 4"
3. Pipe Type Used BLACK 40 / CPVC 4. Sprinkler Area 3,645 SF
5. Type of Construction COMBUSTIBLE - WOOD FRAME
6. Maximum Spacing Allowed 16'x16'
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
— / —	3/8" SAMPIT SUPERSIDERS
	WOOD GRT'D & GFT'D
	3/8" SAMPIT SUPERSIDERS
	WOOD UNGRT'D
	3/8" ALL-THREAD ROD
	PIPE BAND

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

SIN # — #1 TOTAL

SYMBOL	MAKE	MODEL	FINISH	TYPE	TEMP.	N.P.T.	ORIFICE	K-FACTOR	TOTAL
○	RELIABLE	FIRES 49	WHITE	RES. BSC. RSPNS	155°	½"	½"	4.9 / R3516	16 / 36
▽	RELIABLE	FIRES 44	WHITE	RES. RSPNS	155°	½"	½"	4.4 / R3531	20 / 2
								TOTAL	36

SUBMITTALS	
SENT TO	
DATE SENT	DATE RECEIVED
I S O ☐	
F M ☐	
L M ☐	
I R I ☐	
L A ☐	
STATE FIRE ☒	
LOCAL FIRE ☒	
LOCAL WATER ☐	
GEN. CONTR. ☒	
☐	

LICENSE # 093 — PERMIT #
R.M.S. # 278

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

MURRAY HOUSE
104 NORTH STREET
PORTLAND, MAINE 04101
CONTRACT WITH REDFERN PROP.

SYSTEM TYPE		REVISIONS		
WET	☒	NO.	DATE	DESCRIPTION
DRY	☐			
DELUGE	☐			
PREACTION	☐			
ME. LIFE	☐			

SCALE 1/4" = 1'-0"
DRAWN BY SEG
CHECKED BY SEG
DATE 2-5-13
TOTAL SPKRS ON JOB 36
SHEET # 1 OF 2
JOB # 12111

N12353