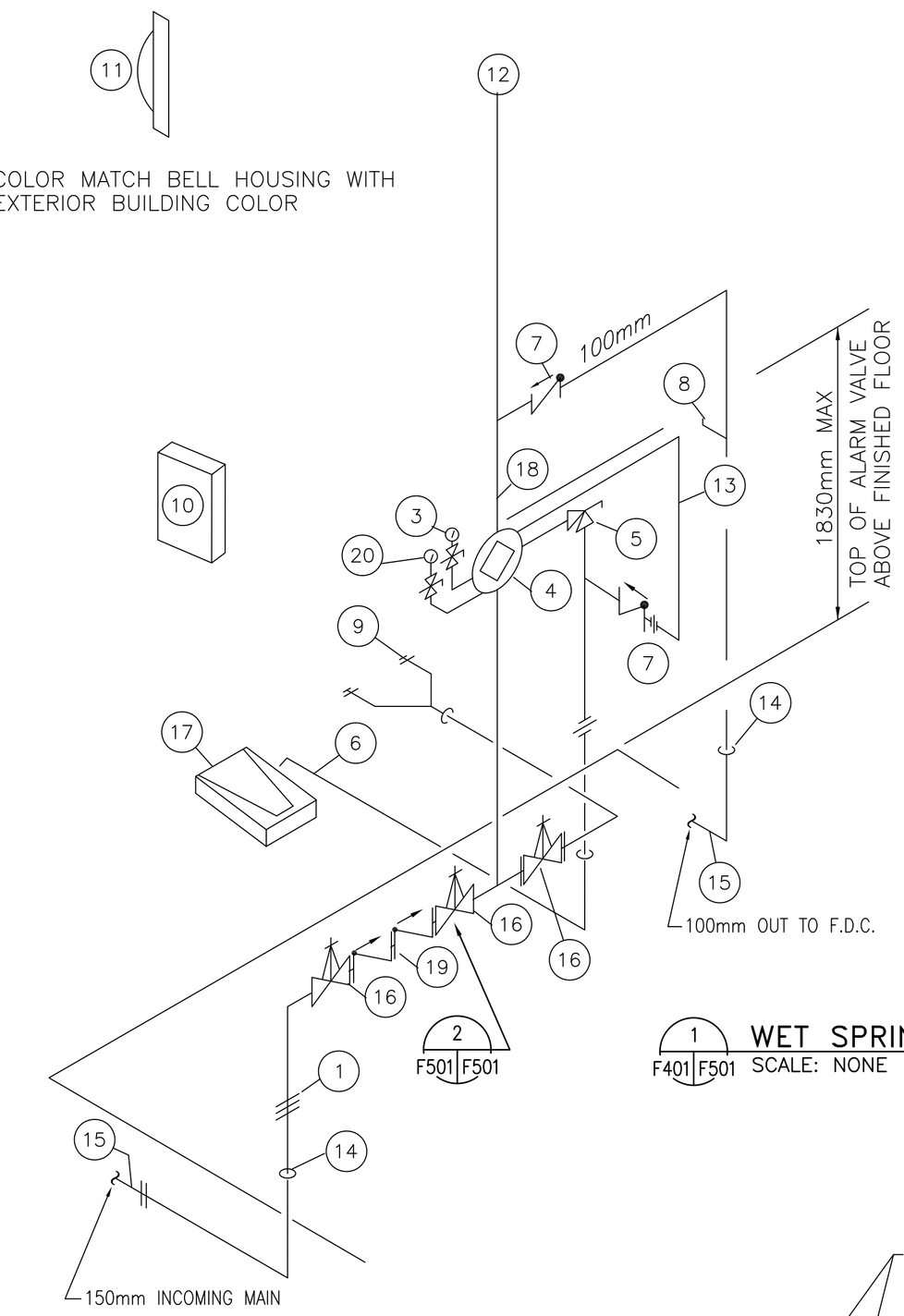


LEGEND

1. FLANGE (SIZED TO MATCH UNDERGROUND)
2. NOT USED
3. SYSTEM PRESSURE GAUGE & VALVE
4. SWING CHECK VALVE WITH PRESSURE GAUGE CONNECTIONS SYSTEM DRAIN CONNECTIONS, AND FLOW OR PRESSURE SWITCH
5. SYSTEM MAIN DRAIN VALVE
6. 50mm DRAIN TO OUTSIDE
7. WAFER CHECK VALVE
8. 15mm BALL DRIP
9. TEST HEADER – ONE SIAMESE HYDRANT OUTLET
10. SPARE HEAD CABINET
11. ELECTRIC BELL (INTERLOCK WITH FLOW SWITCH AND FACP)
12. SPRINKLER FEED MAIN
13. 15mm DRAIN PIPE
14. PENTRATION THRU WALL OR FLOOR
15. DUCTILE IRON PIPE BELOW GRADE
16. SUPERVISED OS&Y GATE VALVE W/TAMPER SWITCH
17. SPLASH BLOCK
18. PROVIDE SIGN W/ HYDRAULIC DATA
19. DOUBLE CHECK BACK FLOW PREVENTER
20. WATER SUPPLY PRESSURE GAUGE & VALVE
21. SUPERVISED CONTROL VALVE W/TAMPER SWITCH

NOTES:

1. PROVIDE INSULATION ON WET PIPE IN NON-HEATED AREAS, AND PROVIDE ACCESS TO ALL CONTROL VALVES.
2. SLOPE ALL PIPING, WHERE POSSIBLE BACK TO THE RISER.
3. PROVIDE AUXILIARY DRAINS AT ALL LOW POINTS

1 F401 F501 **WET SPRINKLER RISER DIAGRAM**
SCALE: NONE

WATER SUPPLY DATA		
STATIC PRESSURE :	483	kPa
FLOW :	3993	L/min
RESIDUAL PRESSURE :	358	kPa
TEST DATE & TIME :	JUNE '02	M-Y
LOCATION:	AT POINT OF CONNECTION TO 203mm MAIN	

NOTE:

ALL SPRINKLER HEADS IN FINISHED CEILINGS SHALL BE STANDARD TYPE, CHROME PLATED, WITH WHITE COVER PLATE. AREAS WITHOUT CEILINGS (MECHANICAL ROOMS) STANDARD UPRIGHT TYPE WITH BRASS FINISH.

FIRE PROTECTION DESIGN CRITERIA:

CLASSROOMS/OFFICE AREAS:

NFPA13

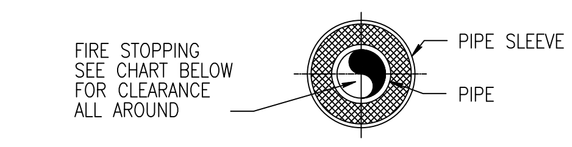
1. CLASSIFICATION: LIGHT HAZARD
2. DENSITY: 4.07 L/min/m2
3. HYDRAULIC REMOTE AREA: 278.7 m2
4. COMBINED HOSE STREAM ALLOWANCE: 946.25 L/min
5. DURATION OF SUPPLY: 45 MINUTES

STORAGE/SHOP TRAINING AREAS:

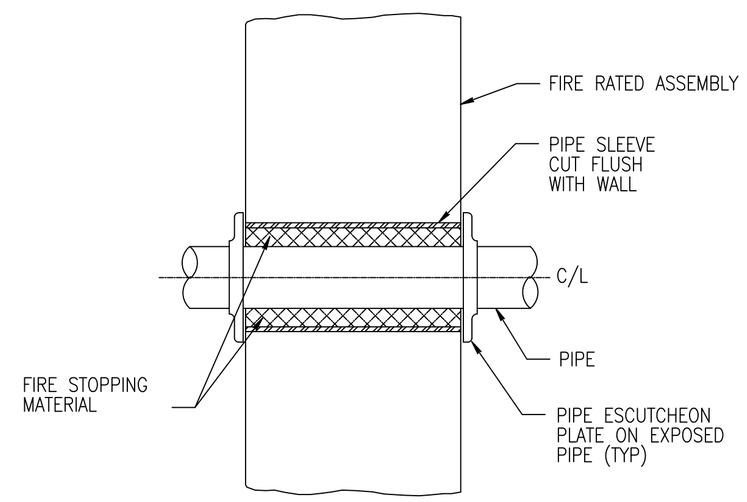
NFPA13

1. CLASSIFICATION: ORDINARY HAZARD GROUP 2
2. DENSITY: 8.15 L/min/m2
3. HYDRAULIC REMOTE AREA: 278.7 m2
4. COMBINED HOSE STREAM ALLOWANCE: 1892.5 L/min
5. DURATION OF SUPPLY: 75 MINUTES

NOTE: THE ACTUAL REMOTE AREA MAY BE APPLIED IF LESS THAN THE DESIGN AREA IN THE ABOVE TABLE.



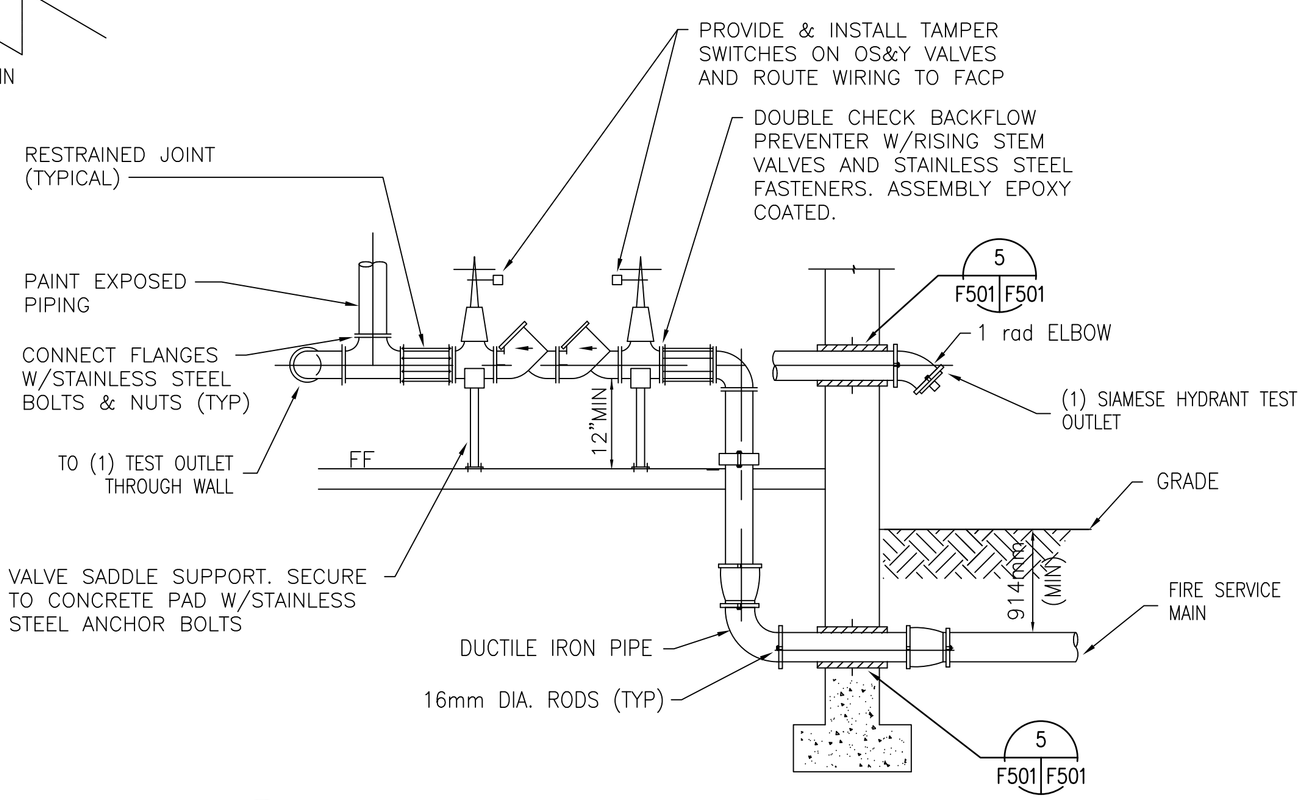
CROSS SECTION



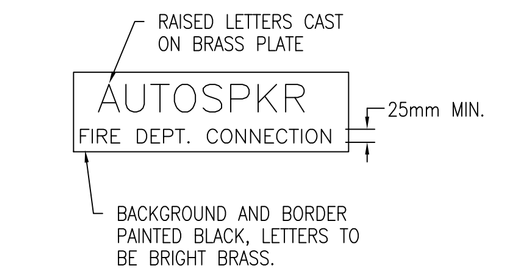
WALL SECTION

PIPE SIZE	MIN CLEARANCE
25mm THROUGH 90mm	25mm DIA. ALL AROUND
100mm AND UP	50mm DIA. ALL AROUND
U.L. SYSTEM # 147 FOR GYPBOARD WALL	U.L. SYSTEM # 319 FOR CONCRETE WALL

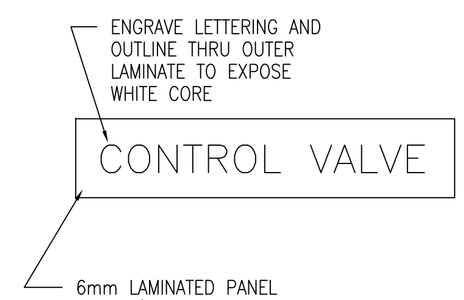
4 F501 F501 **PIPE PENETRATION W/ SLEEVE & FIRE STOP**
SCALE: NTS



2 F401 F501 **BACKFLOW PREVENTER DETAIL**
SCALE: NTS



NOTE: PROVIDE SIGN AT THE FIRE DEPARTMENT CONNECTION



NOTE: PROVIDE SIGN AT ALL CONTROL VALVES.

3 F501 F501 **SIGN DETAILS**
SCALE: NTS

U.S. ARMY CORPS
OF ENGINEERS
LITTLE ROCK DISTRICT

Mark	Description	Date	Appr.

Drawn by: C CALHOUN
Dwg. Code:
Contract Date:
File Name: 18300JF-501
Plot date: 02/04/03
Plot scale: 1:1
Contract No: DACA03-03-R-0021

Designed by: G GORDET
Detailed by: P. DEEN
Submitted by: Atkins Benham, Inc.
Instillation No.: DACA03-03-R-0021

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
LITTLE ROCK DISTRICT
LITTLE ROCK, ARKANSAS

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ADAL C-130J AIRCREW FUSELAGE TRAINER
LRAFB, LITTLE ROCK AR.
Project No. NWAK 043005

FIRE PROTECTION DETAILS

Sheet Reference Number:
F-501
Sheet 75 of 91

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