

**FIRST FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"  
 TOTAL PROTECTED AREA= 17,791 SQ. FT.  
 FINISH FLOOR ELEV.= 100.0'

NOTE: SPRINKLER PROTECTION NOT REQUIRED BELOW EXTERIOR LOADING DOCK OVERHANG PER NFPA 13 (2007) CHAPTER 8 SECTION 8.15.7.2 AND SECTION 8.15.5

**AREA #5**  
 PRE-ACTION SYSTEM  
 "MOST DEMANDING AREA"

**HYDRAULIC DESIGN CRITERIA**

NO. OF SPRINKLERS= 20  
 DENSITY= 0.15 GPM/S.F.  
 AREA OF OPERATION= 1979 S.F.  
 LOCATION= AREA #5 (1ST FL. - P.A.S.)  
 SYSTEM DEMAND @ BASE OF RISER= 439.44GPM @ 60.84PSI

HOSE DEMAND= 250 GPM  
 SAFETY MARGIN= 11.2 PSI

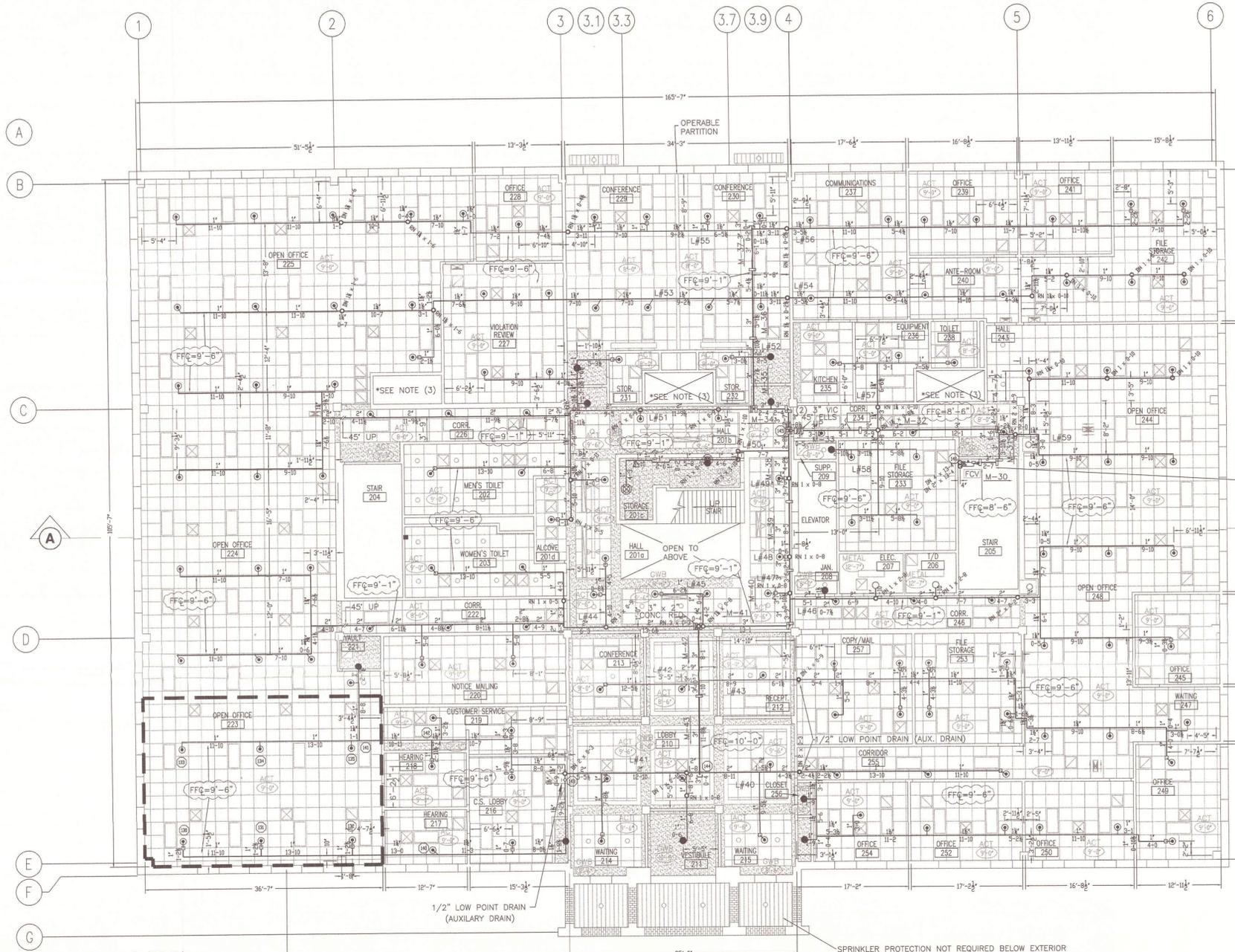
- LEGEND**
- = SCREWED COUPLING
  - ▣ = VIC COUPLING
  - = FLEXHEAD DROP
  - ⊥ = PLUG
  - ⊙ = HEAD GUARD
  - ⊕ = ALARM CHECK VALVE RISER (WET SYSTEM)
  - ⊖ = DELUGE VALVE RISER (PRE-ACTION SYSTEM)
  - ⌒ = 45° ELBOW
  - ⌒ = VIC CAP
  - ⊙ = HYDRAULIC REFERENCE POINT
  - ⊖ = FINISH FLOOR TO CENTERLINE PIPE
  - ⊖ = DECK DOWN TO CENTERLINE PIPE

- CONSTRUCTION NOTES:**
- 1) INSTALL SPRINKLERS CENTERED IN SUSPENDED CEILING TILES.
  - 2) ALL PENDENT SPRINKLERS SHALL BE INSTALLED USING FLEXHEAD ARM OVERS.
  - 3) NONACCESSIBLE VERTICAL SHAFTS DO NOT REQUIRE SPRINKLER PROTECTION IN ACCORDANCE WITH NFPA 13 (2007) SECTION 8.15.2.1.1
  - 4) "SMALL ROOM RULE" USED FOR SPRINKLER SPACING IN ACCORDANCE W/ NFPA 13 (2007) SECTION 8.6.3.2.4.

TYCO MODEL: TY-FRB 155° 111	TYCO MODEL: TY-FRB 155° 45	TYCO MODEL: DS-1 'QR' 155° 16	TYCO MODEL: RF II 'QR' 155° 7	TYCO MODEL: TY-FRB 200° 2
WHITE REC. PEND. SIZE= 1/2" K-FACTOR= 5.6 DN DRDP= ⊕ SIN# TY 3231	BRASS UPRIGHT SIZE= 1/2" K-FACTOR= 5.6 DN LINE= ⊕ SIN# TY 3131	WHITE REC. DRY PEND. SIZE= 1/2" K-FACTOR= 5.6 DN DRDP= ⊕ SIN# TY 3235	WHITE CONCEALED PEND. SIZE= 1/2" K-FACTOR= 5.6 DN DRDP= ⊕ SIN# TY 3531	WHITE REC. SIDEWALL SIZE= 1/2" K-FACTOR= 5.6 DN LINE= ⊕ SIN# TY 3331

"AS-BUILT DRAWING"

<p><b>IMPORTANT</b></p> <p>IN LOCATES SUBJECT TO FREEZING CONDITIONS, THE OWNER MUST MAINTAIN HEAT THROUGHOUT WET PIPE SPRINKLER SYSTEMS AREAS, AND IN ENCLOSURES WHERE DRY PIPE, DELUGE OR OTHER VALVES CONTROLLING WATER SUPPLIES TO SPRINKLER SYSTEMS ARE LOCATED.</p> <p>THIS DRAWING, THE INFORMATION AND DESIGN APPLICATION HEREIN CONTAINED, IS THE PROPERTY OF SIMPLEXGRINNELL LP, AND IS LOANED UPON THE CONDITION THAT THE SAME WILL BE RETURNED TO SIMPLEXGRINNELL UPON REQUEST.</p> <p>REPRODUCTION OF THIS DRAWING OR ANY PART THEREOF, REQUIRES WRITTEN CONSENT FROM SIMPLEXGRINNELL LP.</p> <p>© 2001 SIMPLEXGRINNELL LP - ALL RIGHTS RESERVED</p>	<p><b>APPROVALS</b></p> <p>OUT IN OUT IN OUT IN</p> <p><b>REVISIONS</b></p> <p>NO. DATE BY REVISION DESCRIPTION</p>	<p><b>HYDRAULIC DESIGN DATA</b></p> <p>HAZARD CLASSIFICATION: ORD GRP I HAZARD</p> <p>DENSITY: 0.15</p> <p>AREA OF HOSE ALARM: 1979 SF</p> <p>NO. OF SPRINKLERS: 20</p> <p>NO. OF RISERS: 120</p> <p>TOTAL SYSTEM REQUIREMENTS: 439.68 @ 60.86 BOR</p> <p>WATER SUPPLY INFORMATION: STATIC PRESSURE 81 PSI, RESIDUAL PRESSURE 78 PSI, MIN. 1255 GPM FLOWING</p> <p>BEST LOCATION: (SEE SITE PLAN)</p>	<p><b>CONTRACT SCOPE</b></p> <p>ITEM RESPONSIBILITY</p> <p>CITY CONNECTION BY OTHERS</p> <p>UNDERGROUND BY TYCO</p> <p>EXCAVATIONS BY OTHERS</p> <p>BACKFILL BY OTHERS</p> <p>PAINTING BY OTHERS</p>	<p><b>SPRINKLERS/NOZZLES</b></p> <table border="1"> <tr> <th>MANUF.</th> <th>MODEL</th> <th>STYLE</th> <th>NPT</th> <th>K</th> <th>ORIFICE</th> <th>TEMP(°F)</th> <th>RESPONSE</th> <th>FINISH</th> <th>ESCUTCHION</th> <th>NOTES</th> <th>SYMBOL</th> <th>QTY.</th> </tr> <tr> <td>TYCO</td> <td>TY-FRB</td> <td>PENDENT</td> <td>1/2"</td> <td>5.6</td> <td>1/2"</td> <td>155°</td> <td>Q.R.</td> <td>WHITE</td> <td>SEMI RECESSED</td> <td>ON DROP</td> <td>⊕</td> <td>111</td> </tr> <tr> <td>TYCO</td> <td>TY-FRB</td> <td>UPRIGHT</td> <td>1/2"</td> <td>5.6</td> <td>1/2"</td> <td>155°</td> <td>Q.R.</td> <td>BRASS</td> <td>NONE</td> <td>ON LINE</td> <td>⊖</td> <td>45</td> </tr> <tr> <td>TYCO</td> <td>DS-1</td> <td>PENDENT</td> <td>1/2"</td> <td>5.6</td> <td>1/2"</td> <td>155°</td> <td>Q.R.</td> <td>WHITE</td> <td>SEMI RECESSED</td> <td>ON DROP-DRY PENDENT</td> <td>⊖</td> <td>7</td> </tr> <tr> <td>TYCO</td> <td>RF II</td> <td>PENDENT</td> <td>1/2"</td> <td>5.6</td> <td>1/2"</td> <td>155°</td> <td>Q.R.</td> <td>WHITE</td> <td>CONCEALED</td> <td>ON DROP</td> <td>⊖</td> <td>2</td> </tr> <tr> <td>TYCO</td> <td>TY-FRB</td> <td>SIDEWALL</td> <td>1/2"</td> <td>5.6</td> <td>1/2"</td> <td>200°</td> <td>Q.R.</td> <td>WHITE</td> <td>SEMI RECESSED</td> <td>ON LINE</td> <td>⊖</td> <td>2</td> </tr> </table>	MANUF.	MODEL	STYLE	NPT	K	ORIFICE	TEMP(°F)	RESPONSE	FINISH	ESCUTCHION	NOTES	SYMBOL	QTY.	TYCO	TY-FRB	PENDENT	1/2"	5.6	1/2"	155°	Q.R.	WHITE	SEMI RECESSED	ON DROP	⊕	111	TYCO	TY-FRB	UPRIGHT	1/2"	5.6	1/2"	155°	Q.R.	BRASS	NONE	ON LINE	⊖	45	TYCO	DS-1	PENDENT	1/2"	5.6	1/2"	155°	Q.R.	WHITE	SEMI RECESSED	ON DROP-DRY PENDENT	⊖	7	TYCO	RF II	PENDENT	1/2"	5.6	1/2"	155°	Q.R.	WHITE	CONCEALED	ON DROP	⊖	2	TYCO	TY-FRB	SIDEWALL	1/2"	5.6	1/2"	200°	Q.R.	WHITE	SEMI RECESSED	ON LINE	⊖	2	<p><b>tyco Fire &amp; Security SimplexGrinnell</b></p> <p>EXECUTIVE OFFICES: HOUSTON, TEXAS, USA</p> <p>CONTRACT NAME: MTA ADMINISTRATION BLDG CONGRESS STREET PORTLAND, ME. 04101</p> <p>CONTRACT WITH: WRIGHT-RYAN CONSTRUCTION</p> <p>DESCRIPTION: FIRE SPRINKLER PLAN- FIRST LEVEL</p> <p>TOTAL THIS SHEET: 181</p>	<p>REQUIRED APPROVALS:</p> <ol style="list-style-type: none"> <li>1) OWNER/ARCHITECT</li> <li>2) STATE FIRE MARSHALS OFFICE</li> <li>3) PORTLAND FIRE DEPT.</li> </ol> <p>ENGINEERING DEPARTMENT: 20 THOMAS DRIVE, WESTBROOK, ME. PHONE: (207) 842-6440, FAX: (207) 482-2358</p> <p>CONTRACTOR LICENSE # 308</p> <p>CONTRACTOR RMS # 389</p> <p>SCALE: AS-NOTED</p> <p>DATE: 4/30/2009</p> <p>DRAWING NO: 93357201</p> <p>1 OF 4</p>
	MANUF.	MODEL	STYLE	NPT	K	ORIFICE	TEMP(°F)	RESPONSE	FINISH	ESCUTCHION	NOTES	SYMBOL	QTY.																																																																							
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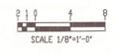


FLOOR CONTROL VALVE ASSEMBLY  
(SEE DETAIL ON PLAN 4 OF 4)

AREA #4 (2ND FL.)  
940 S.F. HYDRAULICALLY REMOTE AREA  
IN ACCORDANCE W/ NFPA 13 (2007)  
SECTION 11.2.3.2.3.1

AREA #4  
"PROOF CALC"  
HYDRAULIC DESIGN CRITERIA  
NO. OF SPRINKLERS= 6  
DENSITY= 0.10 GPM/S.F.  
AREA OF OPERATION= 940 S.F.  
LOCATION= AREA #4 (2ND FL.)  
SYSTEM DEMAND @ BASE OF RISER=123.16GPM @61.8 PSI  
HOSE DEMAND= 100 GPM  
SAFETY MARGIN= 13.2 PSI

SECOND FLOOR PLAN  
SCALE: 1/8" = 1'-0"  
TOTAL PROTECTED AREA= 17,539 SQ. FT.  
FINISH FLOOR ELEV= 113.33'



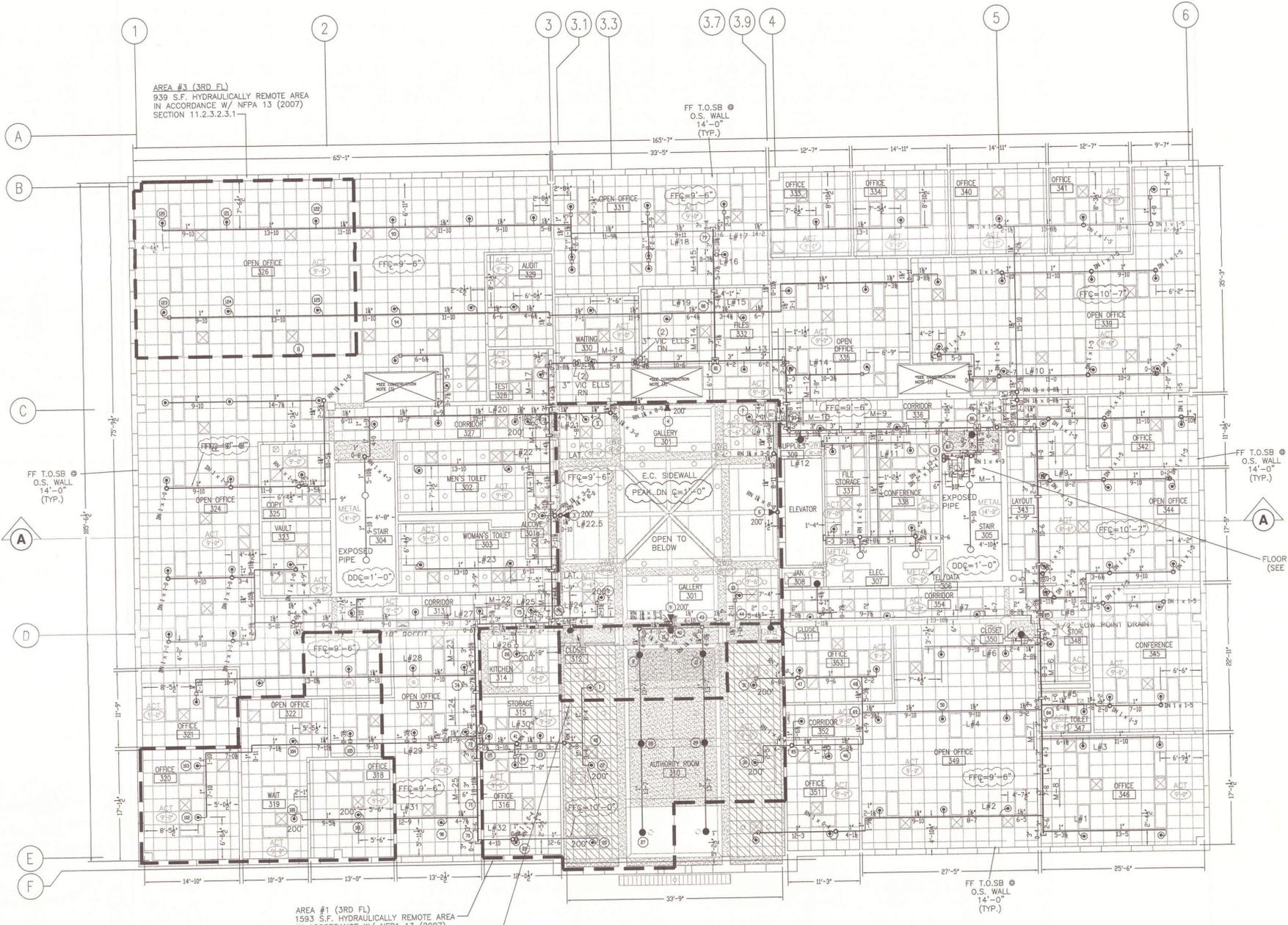
- TYCO MODEL: TY-FRB  
155"  
141  
WHITE REC. PEND.  
SIZE= 1/2"  
K-FACTOR= 5.6  
DN DROP= ●  
SIN# TY 3231  
MAX. COVERAGE= 196 SF
- TYCO MODEL: RF II  
155"  
11  
WHITE CONC. PEND.  
SIZE= 1/2"  
K-FACTOR= 5.6  
DN DROP= ●  
SIN# TY 3531  
MAX. COVERAGE= 196 SF
- TYCO MODEL: TY-FRB  
155"  
4  
BRASS UPRIGHT  
SIZE= 1/2"  
K-FACTOR= 5.6  
DN LINE= ○  
SIN# TY 3131  
MAX. COVERAGE= 196 SF

- LEGEND
- = SCREWED COUPLING
  - ▣ = VC COUPLING
  - = FLEXHEAD DROP
  - ⊕ = PLUG
  - = HEAD GUARD
  - △ = ALARM CHECK VALVE RISER (WET SYSTEM)
  - ◇ = DELUGE VALVE RISER (PRE-ACTION SYSTEM)
  - FFC = FINISH FLOOR TO CENTERLINE PIPE
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- CONSTRUCTION NOTES:
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**THIRD FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"  
 TOTAL PROTECTED AREA= 17,539 SQ. FT.  
 FINISH FLOOR ELEV= 126.67'

**AREA #1**  
 "MOST DEMANDING AREA"  
**HYDRAULIC DESIGN CRITERIA**  
 NO. OF SPRINKLERS= 16  
 DENSITY= 0.10 GPM/S.F.  
 AREA OF OPERATION= 1593 S.F.  
 LOCATION= AREA #1 (3RD FL)  
 SYSTEM DEMAND @ BASE OF RISER=345.3 GPM @62.6 PSI  
 HOSE DEMAND= 100 GPM  
 SAFETY MARGIN= 11.13 PSI

**AREA #2**  
 "PROOF CALC/SKYLIGHT HEADS"  
**HYDRAULIC DESIGN CRITERIA**  
 NO. OF SPRINKLERS= 12  
 DENSITY= 0.10 GPM/S.F.  
 AREA OF OPERATION= 1544 S.F.  
 LOCATION= AREA #1 (3RD FL)  
 SYSTEM DEMAND @ BASE OF RISER=323.5 PM @61.5 PSI  
 HOSE DEMAND= 100 GPM  
 SAFETY MARGIN= 12.4 PSI

**AREA #3**  
 "PROOF CALC"  
**HYDRAULIC DESIGN CRITERIA**  
 NO. OF SPRINKLERS= 6  
 DENSITY= 0.10 GPM/S.F.  
 AREA OF OPERATION= 939 S.F.  
 LOCATION= AREA #1 (3RD FL)  
 SYSTEM DEMAND @ BASE OF RISER=123.48GPM @63.9 PSI  
 HOSE DEMAND= 100 GPM  
 SAFETY MARGIN= 11.1 PSI

- LEGEND**
- = SCREWED COUPLING
  - = VIC COUPLING
  - ⊥ = FLEXHEAD DROP
  - ⊥ = PLUG
  - = HEAD GUARD
  - ⊕ = ALARM CHECK VALVE RISER (WET SYSTEM)
  - ⊕ = DELUGE VALVE RISER (PRE-ACTION SYSTEM)
  - ⊕ = FINISH FLOOR TO CENTERLINE PIPE
  - ⊕ = DECK DOWN TO CENTERLINE PIPE

- CONSTRUCTION NOTES:**
- 1) INSTALL SPRINKLERS CENTERED IN SUSPENDED CEILING TILES.
  - 2) ALL PENDENT SPRINKLERS SHALL BE INSTALLED USING FLEXHEAD ARM OVERS.
  - 3) NONACCESSIBLE VERTICAL SHAFTS DO NOT REQUIRE SPRINKLER PROTECTION IN ACCORDANCE WITH NFPA 13 (2007) SECTION 8.15.2.1.1
  - 4) "SMALL ROOM RULE" USED FOR SPRINKLER SPACING IN ACCORDANCE W/ NFPA 13 (2007) SECTION 8.6.3.2.4.
  - 5) SPRINKLER PROTECTION NOT REQUIRED AT TOP OF ELEVATOR SHAFT PER NFPA 13, CHAPTER 8, SECTION A.8.15.5.5

TYCO MODEL: TY-FRB 155" 139	TYCO MODEL: RF II 155" 13	TYCO MODEL: TY-FRB 155" 2	TYCO MODEL: TY-FRB 155" 4	TYCO MODEL: TY-FRB 200" 4
WHITE REC. PEND. SIZE= 1/2" K-FACTOR= 5.6 DN DROP= 0 SIN# TY 3231 MAX. COVERAGE= 196 SF	WHITE CONC. PEND. SIZE= 1/2" K-FACTOR= 5.6 DN DROP= 0 SIN# TY 3531 MAX. COVERAGE= 196 SF	BRASS UPRIGHT SIZE= 1/2" K-FACTOR= 5.6 DN DROP= 0 SIN# TY 3131 MAX. COVERAGE= 196 SF	WHITE REC. SIDEWALL SIZE= 1/2" K-FACTOR= 5.6 DN LINE= 4 SIN# TY 3331 MAX. COVERAGE= 196 SF	WHITE EC SIDEWALL SIZE= 3/4" K-FACTOR= 8.0 DN LINE= 4 SIN# TY 4332 MAX. COVERAGE= 288 SF (WIDTH=16' X THRDV=18')

"AS-BUILT DRAWING"

**IMPORTANT**

IN LOCALITIES SUBJECT TO FREEZING CONDITIONS, THE OWNER MUST MAINTAIN HEAT THROUGHOUT WET PIPE SPRINKLER SYSTEMS AREAS, AND IN ENCLOSURES WHERE DRY PIPE, DELUGE OR OTHER VALVES CONTROLLING WATER SUPPLIES TO SPRINKLER SYSTEMS ARE LOCATED.

THIS DRAWING, THE INFORMATION AND DESIGN APPLICATION HEREIN CONTAINED, IS THE PROPERTY OF SIMPLEXGRINNELL LP, AND IS LOANED UPON THE CONDITION THAT THE SAME WILL BE RETURNED TO SIMPLEXGRINNELL UPON REQUEST.

INFORMATION CONTAINED HEREIN SHALL BE TREATED AS CONFIDENTIAL. REPRODUCTION OF THIS DRAWING OR ANY PART THEREOF, REQUIRES WRITTEN CONSENT FROM SIMPLEX GRINNELL LP.

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**APPROVALS**

IN	OUT	IN	OUT
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**REVISIONS**

NO.	DATE	BY	REVISION DESCRIPTION

**HYDRAULIC DESIGN DATA**

REL. AREA NAME/NO.	HAZARD CLASSIFICATION	DENSITY GPM/SQ.FT.	AREA OF APPLIC. SQ. FT.	WET/DRY	NO. OF HEADS	TOTAL SYSTEM REQUIREMENTS GPM PSI AT
AREA#1	LIGHT HAZARD	0.1	1593SF	100	196	676.01 @ 60.93
AREA#2	LIGHT HAZARD	0.1	1544SF	100	196	676.01 @ 60.93
AREA#3	LIGHT HAZARD	0.1	939SF	100	196	676.01 @ 60.93

WATER SUPPLY INFORMATION: STATIC PRESSURE 81 PSI. RESIDUAL PRESSURE 78 PSI. WITH 1255 GPM FLOWING

TEST LOCATION: (SEE SITE PLAN) BY: PORTLAND WATER DEPT. TEST DATE: 4/18/2007

**CONTRACT SCOPE**

ITEM	RESPONSIBILITY
CITY CONNECTION	BY OTHERS
UNDERGROUND	BY OTHERS
EXCAVATIONS	BY OTHERS
BACKFILL	BY OTHERS
WIRING	BY OTHERS
PAINTING	BY OTHERS

**SPRINKLERS/NOZZLES**

MANUF.	MODEL	STYLE	NPT	K	ORIFICE	TEMP.(°F)	RESPONSE	FINISH	ESULTION	NOTES	SYMBOL	QTY.
TYCO	TY-FRB	PENDENT	1/2"	5.6	1/2"	155°	G.R.	WHITE	SEMI-RECESSED	ON DROP	⊕	139
TYCO	RF II	PENDENT	1/2"	5.6	1/2"	155°	G.R.	WHITE	CONCEALED	ON DROP	⊕	13
TYCO	TY-FRB	UPRIGHT	1/2"	5.6	1/2"	155°	G.R.	BRASS	NONE	ON LINE	⊕	2
TYCO	TY-FRB	SIDEWALL	1/2"	5.6	1/2"	155°	G.R.	WHITE	SEMI-RECESSED	ON DROP	⊕	4
TYCO	TY-FRB	SIDEWALL	1/2"	5.6	1/2"	200°	G.R.	WHITE	SEMI-RECESSED	EXTENDED COVERAGE	⊕	4

**tyco Fire & Security SimplexGrinnell**

**MTA ADMINISTRATION BLDG**  
 CONGRESS STREET  
 PORTLAND, ME. 04101

CONTRACT NAME: WRIGHT-RYAN CONSTRUCTION  
 DESCRIPTION: FIRE SPRINKLER PLAN-THIRD LEVEL

EXECUTIVE OFFICES: HOUSTON, TEXAS, USA

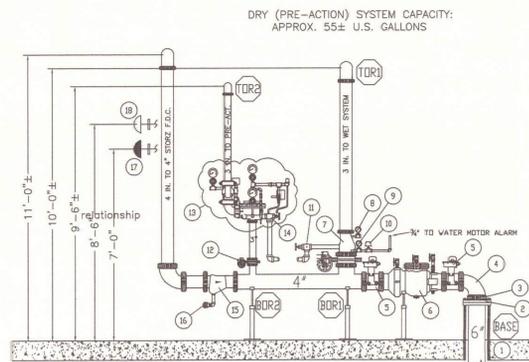
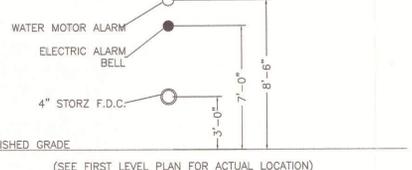
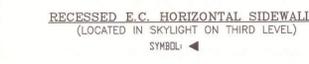
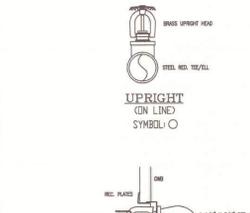
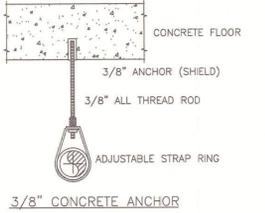
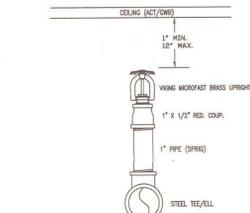
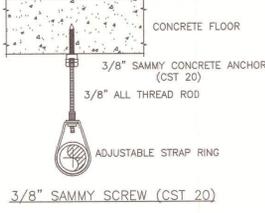
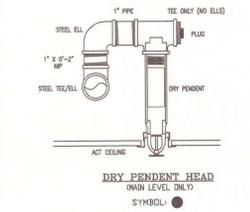
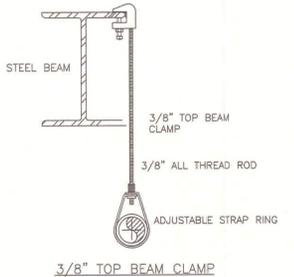
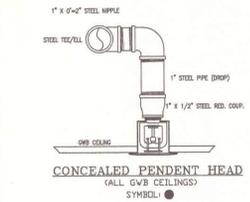
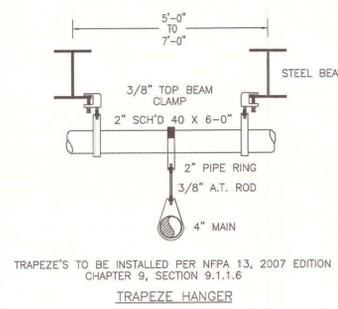
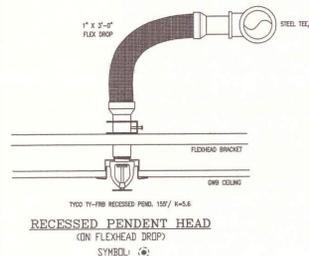
THESE PLANS PREPARED AT: DRAWN BY: T. PRAY  
 NICET III CERT.# 100854

REQUIRED APPROVALS:  
 1) OWNER/ARCHITECT  
 2) STATE FIRE MARSHALS OFFICE  
 3) PORTLAND FIRE DEPT.

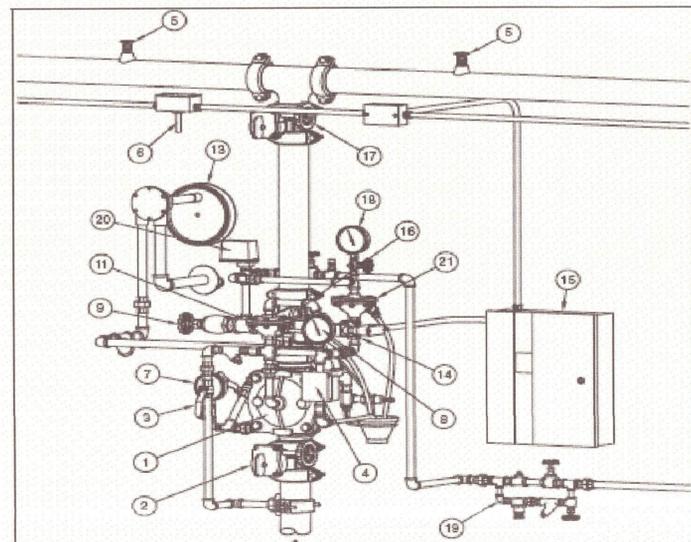
ENGINEERING DEPARTMENT  
 20 THOMAS DRIVE  
 WESTBROOK, ME  
 PHONE (207) 842-6440  
 FAX (207) 482-2358

CONTRACTOR LICENSE # 398  
 CONTRACTOR RMS # 389

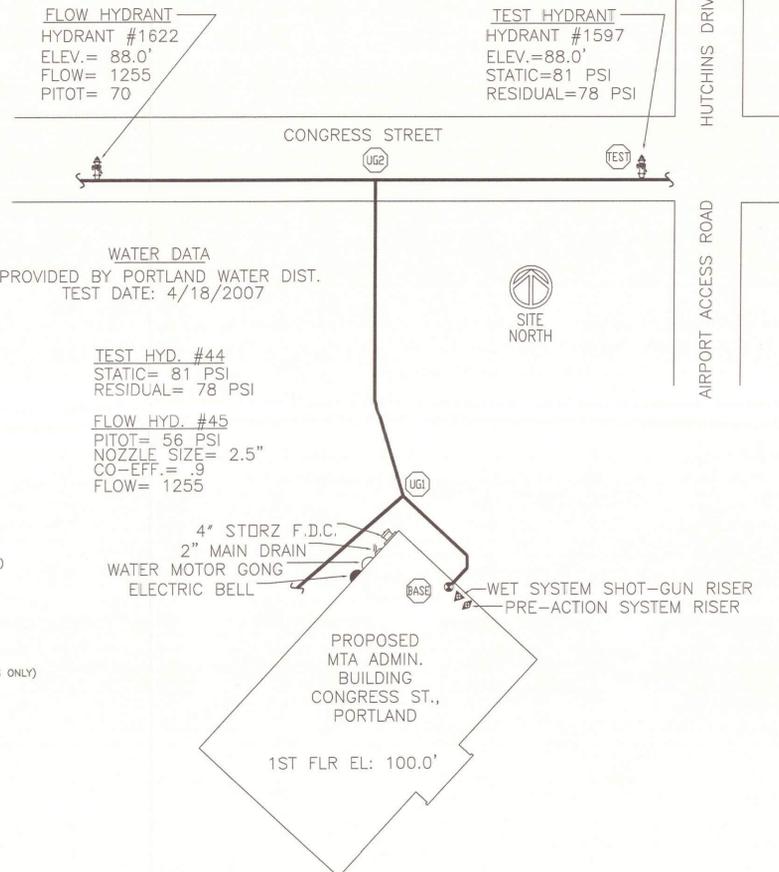
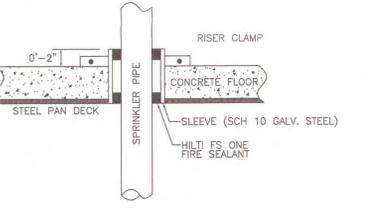
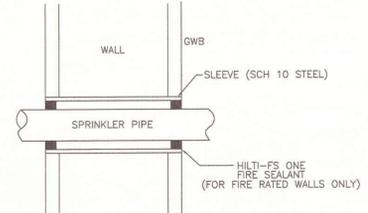
SCALE: AS-NOTED  
 DATE: 4/30/2009  
 DRAWING NO. 933357201  
 3 OF 4



- DRY (PRE-ACTION) SYSTEM CAPACITY:  
APPROX. 55± U.S. GALLONS
- 6" DICL UNDERGROUND FIRE SERVICE MAIN (BY OTHERS) (SEE SITE PLAN FOR UG LOCATION)
  - 6" GROOVED FLANGE ADAPTOR
  - 6"x4" GROOVED REDUCING COUPLING
  - 4" 90° GROOVED ELBOW
  - 4" BUTTERFLY VALVE W/ BUILT-IN TAMPER SWITCH
  - 4" WILKINS MO. 350A DOUBLE CHECK VALVE ASSEMBLY
  - 4" TYCO MO. AV-1 ALARM VALVE
  - WATER PRESSURE GAGE (SYSTEM SIDE)
  - WATER PRESSURE GAGE (SUPPLY SIDE)
  - POTTER PS-10A PRESSURE SWITCH
  - 2" ANGLE VALVE (MAIN DRAIN)
  - 3" BUTTERFLY VALVE
  - 3" TYCO PRE-ACTION VALVE (SEE VALVE DETAIL ON FP 4 OF 4)
  - 1 1/2" ANGLE VALVE (MAIN DRAIN)
  - 4" TYCO CHECK VALVE
  - TYCO 3/4" BALL DRIP VALVE
  - POTTER ELECTRIC ALARM BELL (OUTSIDE BLDG.)
  - TYCO WMA-1 WATER MOTOR ALARM (OUTSIDE BLDG.)



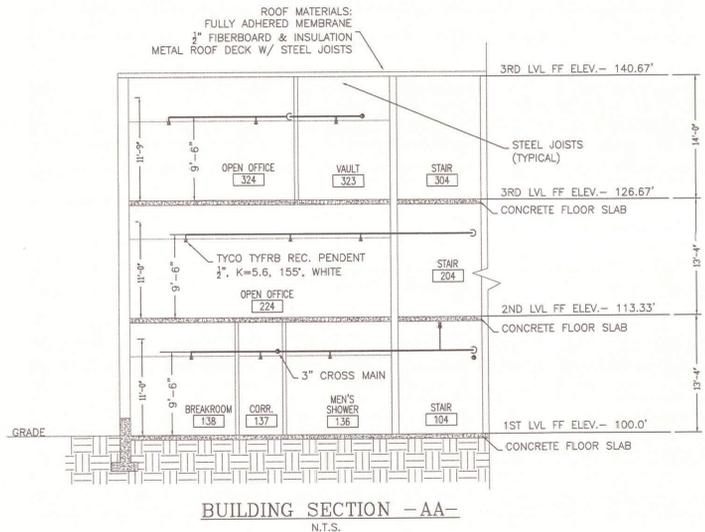
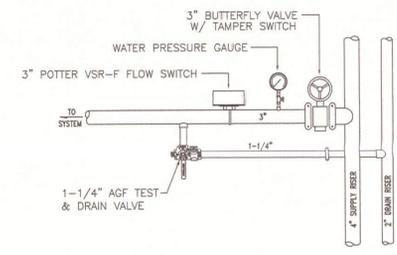
- Model O 1/4 S Deluge Valve
- Main Control Valve (N.C.)
- Diaphragm Chamber Supply Control Valve (N.O.)
- Local Manual Control Station
- Automatic Sprinklers
- Heat Detectors, Smoke Detectors, etc. (Fire Detector)
- Water Supply Pressure Gauge
- Diaphragm Chamber Pressure Gauge
- System Drain Valve (N.C.)
- Main Drain Valve (N.C.) (Shown at Rear of Valve)
- Fast-Acting Valve
- Waterflow Pressure Alarm Switch (Shown at Rear of Valve)
- Water Motor Alarm (Optional)
- Solenoid Valve
- Deluge Valve Raising Panel
- Riser Check Valve
- System Shut-Off Valve (N.C.)
- Air Pressure Gauge
- Automatic Air/Nitrogen Supply
- Low Pressure Alarm Switch
- Dry Pilot Actuator



**NOTES:**  
UNDERGROUND PIPING TO BE INSTALLED, FLUSHED & TESTED BY OTHERS IN ACCORDANCE WITH NFPA 24  
SIMPLEX GRINNELL TO START AT A 6" FLANGE, 1'-0" AFF IN THE MECHANICAL RM. IN A PLUMB LEVEL POSITION.

**GENERAL NOTES**

- ALL SPRINKLER PIPING SHALL BE "ALLIED" DOMESTIC BLACK STEEL IN ACCORDANCE WITH NFPA 13. ALL PIPING 2" & LARGER SHALL BE SCH'D 10 WITH GROOVED FITTINGS, ALL PIPING 2" & SMALLER SHALL BE SCH'D 40 WITH THREADED FITTINGS.
- SCOPE OF WORK INCLUDES COMPLETE INSTALLATION AND TESTING OF A NEW WET/PRE-ACTION FIRE SPRINKLER SYSTEM AT M.T.A. ADMIN BUILDING, CONGRESS ST. PORTLAND, ME. PROJECT SHALL BE IN ACCORDANCE WITH NFPA 13 2007, STATE, AND LOCAL REQUIREMENTS.
- SPRINKLER SYSTEM SHALL BE SUPPLIED BY A 6" DICL UNDERGROUND FIRE SERVICE MAIN TIED IN TO A 12" DICL CIRCULATING STREET MAIN. \*NOTE: SEE SITE PLAN FOR WATER MAIN LOCATIONS AND HYDRANT FLOW INFORMATION.
- HYDRAULIC CALCULATION PROCEDURES HAVE BEEN DONE IN ACCORDANCE WITH NFPA 13 (2007). (SEE PLANS FOR LOCATION OF REMOTE AREAS, HYDRAULIC REFERENCE POINTS, AND SYSTEM DEMANDS.)
- DEVICES, EQUIPMENT, AND FITTINGS FOR FIRE PROTECTION SERVICE SHALL BE U.L. LISTED OR F.M. APPROVED FOR USE IN WET PIPE SPRINKLER SYSTEMS.
- ALL DIMENSIONS ARE SHOWN AS CENTER-TO-CENTER.
- ALL ELECTRIC WORK IS TO BE DONE BY OTHERS.
- SERVER ROOM #114 TO BE PROTECTED BY A CLEAN AGENT SYSTEM INSTALLED BY OTHERS.
- ALL UNDERGROUND PIPING TO BE INSTALLED, FLUSHED & TESTED BY OTHERS IN ACCORDANCE WITH NFPA 24.
- PRE-ACTION SYSTEM PIPING AND FITTINGS SHALL BE GALVANIZED STEEL
- PRE-ACTION SYSTEM PENDENT HEADS THAT DROP INTO ACT CEILING SHALL BE "DRY" TYPE SPRINKLERS.



"AS-BUILT DRAWING"

<p><b>IMPORTANT</b></p> <p>IN LOCALITIES SUBJECT TO FREEZING CONDITIONS, THE OWNER MUST MAINTAIN HEAT THROUGHOUT MET PIPE SPRINKLER SYSTEMS AREAS, AND IN ENCLOSURES WHERE DRY PIPE, DELUGE OR OTHER VALVES CONTROLLING WATER SUPPLIES TO SPRINKLER SYSTEMS ARE LOCATED.</p> <p>THIS DRAWING, THE INFORMATION AND DESIGN APPLICATION HEREIN CONTAINED, IS THE PROPERTY OF SIMPLEX GRINNELL LP, AND IS LOANED UPON THE CONDITION THAT THE SAME WILL BE RETURNED TO SIMPLEX GRINNELL UPON REQUEST.</p> <p>INFORMATION CONTAINED HEREIN SHALL BE TREATED AS CONFIDENTIAL. REPRODUCTION OF THIS DRAWING OR ANY PART THEREOF, REQUIRES WRITTEN CONSENT FROM SIMPLEX GRINNELL LP.</p> <p>© 2001 SIMPLEX GRINNELL LP - ALL RIGHTS RESERVED</p>	<p><b>APPROVALS</b></p> <p>IN _____ IN _____ IN _____ IN _____</p> <p><b>REVISIONS</b></p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REVISION DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	BY	REVISION DESCRIPTION					<p><b>HYDRAULIC DESIGN DATA</b></p> <table border="1"> <tr> <th>RAW AREA NAME/NO.</th> <th>HAZARD CLASSIFICATION</th> <th>DESIGN Q (GPM/SGT)</th> <th>AREA OF EXPOSURE</th> <th>HOSE ALLOW.</th> <th>50 FT. AD.</th> <th>TOTAL SYSTEM REQUIREMENTS AT</th> </tr> <tr> <td> </td> </tr> </table> <p>WATER SUPPLY INFORMATION: STATIC PRESSURE _____ PSI, RESIDUAL PRESSURE _____ PSI, WITH _____ GPM FLOWING</p> <p>TEST LOCATION: _____ TEST DATE: _____</p>	RAW AREA NAME/NO.	HAZARD CLASSIFICATION	DESIGN Q (GPM/SGT)	AREA OF EXPOSURE	HOSE ALLOW.	50 FT. AD.	TOTAL SYSTEM REQUIREMENTS AT								<p><b>CONTRACT SCOPE</b></p> <table border="1"> <tr> <th>ITEM</th> <th>RESPONSIBILITY</th> </tr> <tr> <td>QTY CONNECTION</td> <td>BY OTHERS</td> </tr> <tr> <td>UNDERGROUND</td> <td>BY OTHERS</td> </tr> <tr> <td>EXCAVATIONS</td> <td>BY OTHERS</td> </tr> <tr> <td>BACKFILL</td> <td>BY OTHERS</td> </tr> <tr> <td>MINING</td> <td>BY OTHERS</td> </tr> <tr> <td>PAINTING</td> <td>BY OTHERS</td> </tr> </table>	ITEM	RESPONSIBILITY	QTY CONNECTION	BY OTHERS	UNDERGROUND	BY OTHERS	EXCAVATIONS	BY OTHERS	BACKFILL	BY OTHERS	MINING	BY OTHERS	PAINTING	BY OTHERS	<p><b>SPRINKLERS/NOZZLES</b></p> <table border="1"> <tr> <th>MANUF.</th> <th>MODEL</th> <th>STYLE</th> <th>NPT</th> <th>K</th> <th>ORIFICE</th> <th>TEMP.(°F)</th> <th>RESPONSE</th> <th>FINISH</th> <th>ES/OUT-CHON</th> <th>NOTES</th> <th>SYMBOL</th> <th>QTY.</th> </tr> <tr> <td> </td> </tr> </table>	MANUF.	MODEL	STYLE	NPT	K	ORIFICE	TEMP.(°F)	RESPONSE	FINISH	ES/OUT-CHON	NOTES	SYMBOL	QTY.														<p><b>CONTRACT NAME:</b> MTA ADMINISTRATION BLDG CONGRESS STREET PORTLAND, ME. 04101</p> <p><b>CONTRACT WITH:</b> WRIGHT-RYAN CONSTRUCTION</p> <p><b>DESCRIPTION:</b> FIRE SPRINKLER PLAN- DETAILS</p> <p><b>TOTAL SHEET:</b> 130</p>	<p><b>EXECUTIVE OFFICES:</b> HOUSTON, TEXAS, USA</p> <p><b>THESE PLANS PREPARED AT:</b> ENGINEERING DEPARTMENT 20 THOMAS DRIVE WESTBROOK, ME. PHONE: (207) 842-8440 FAX: (207) 492-2359</p> <p><b>SCALE:</b> AS-NOTED</p> <p><b>CONTRACT NO.:</b> 83357201</p> <p><b>DRAWING NO.:</b> 4 OF 4</p>
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