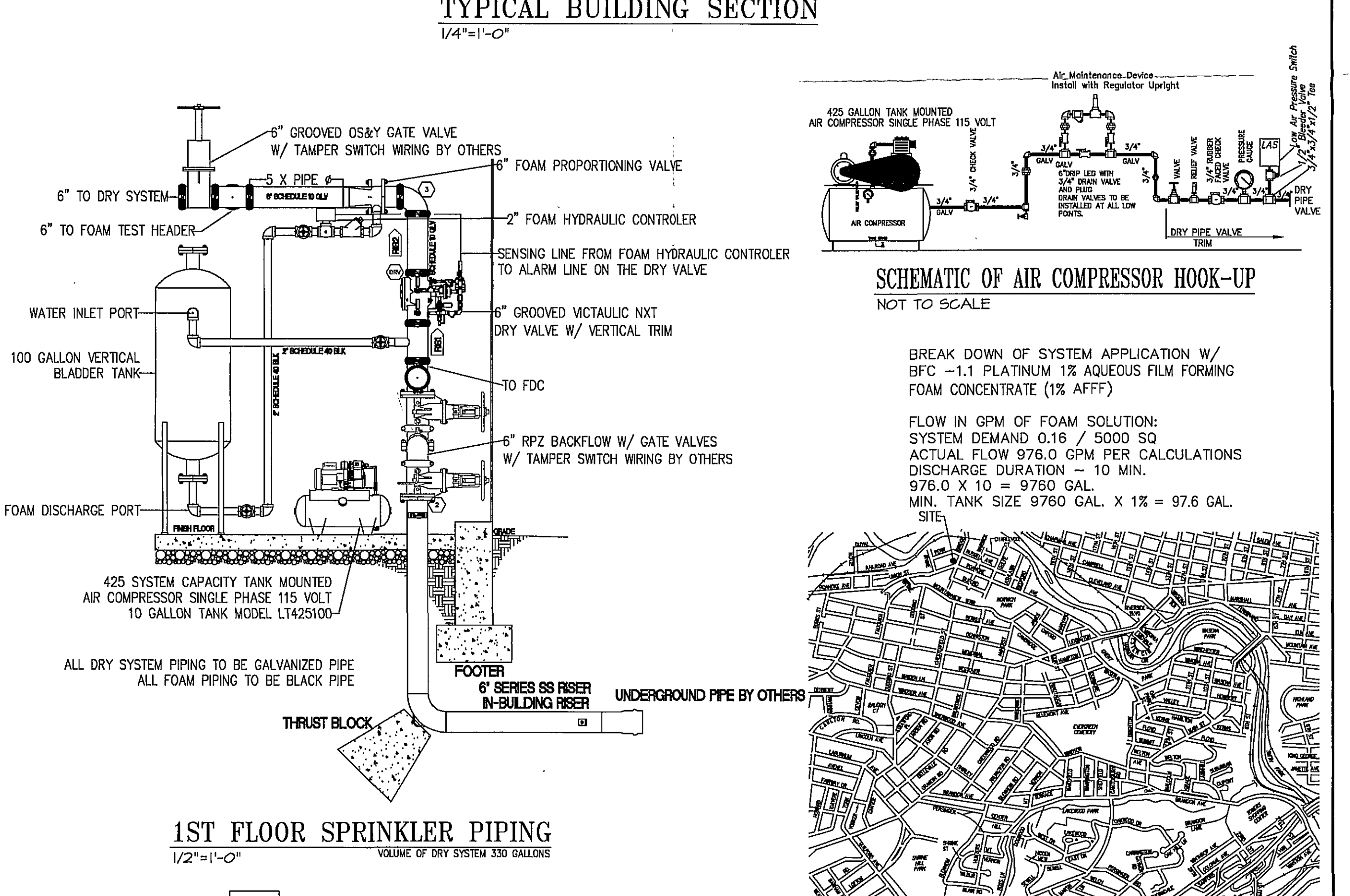
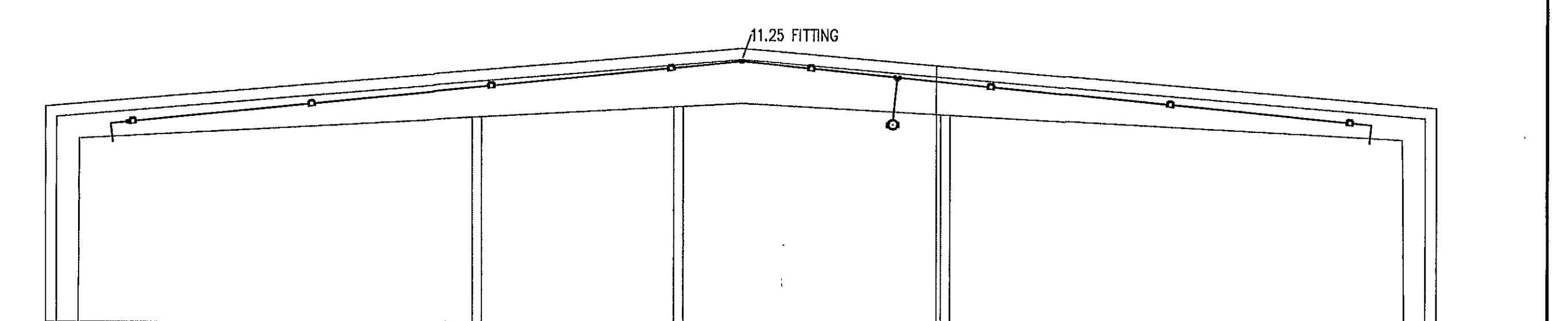
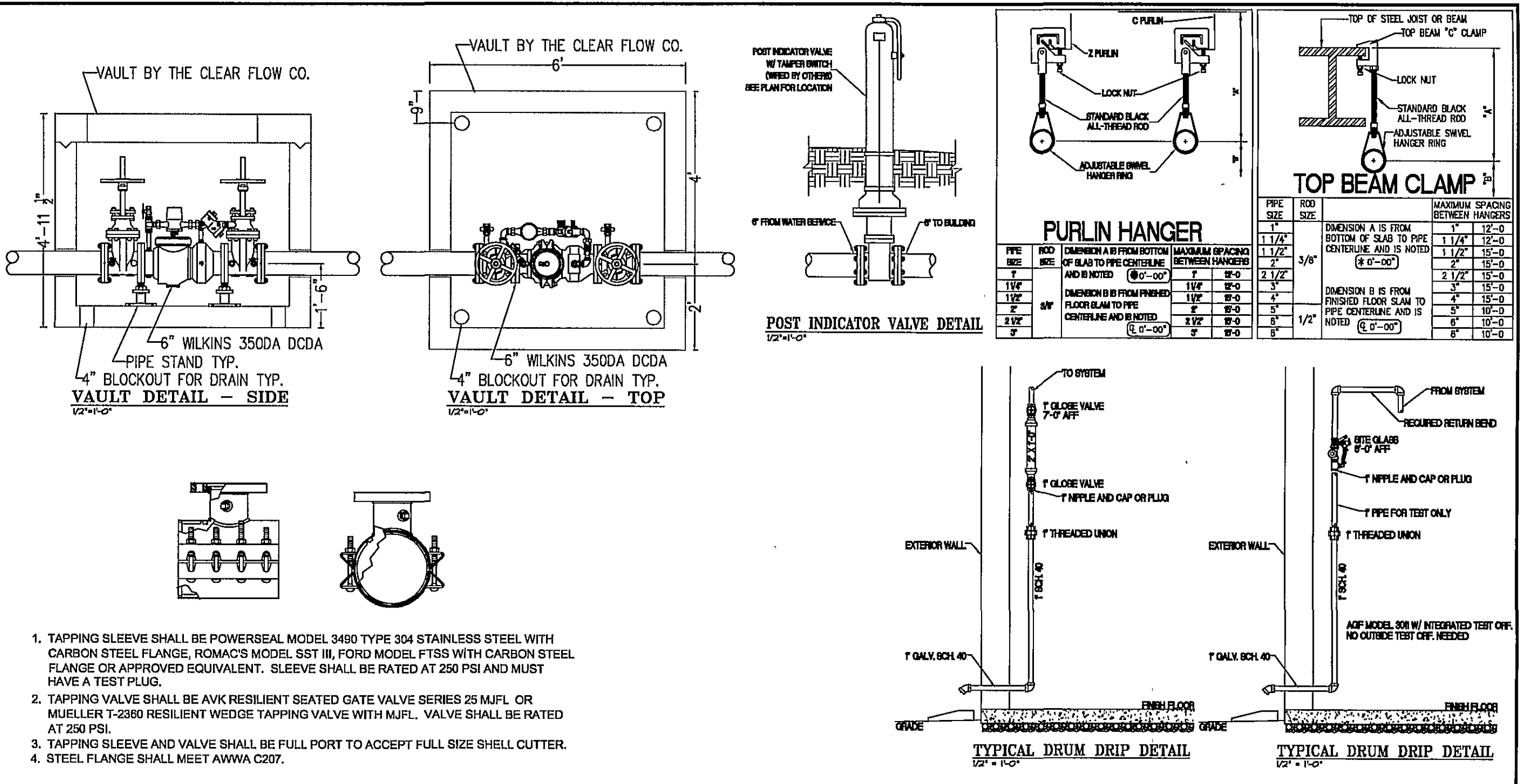
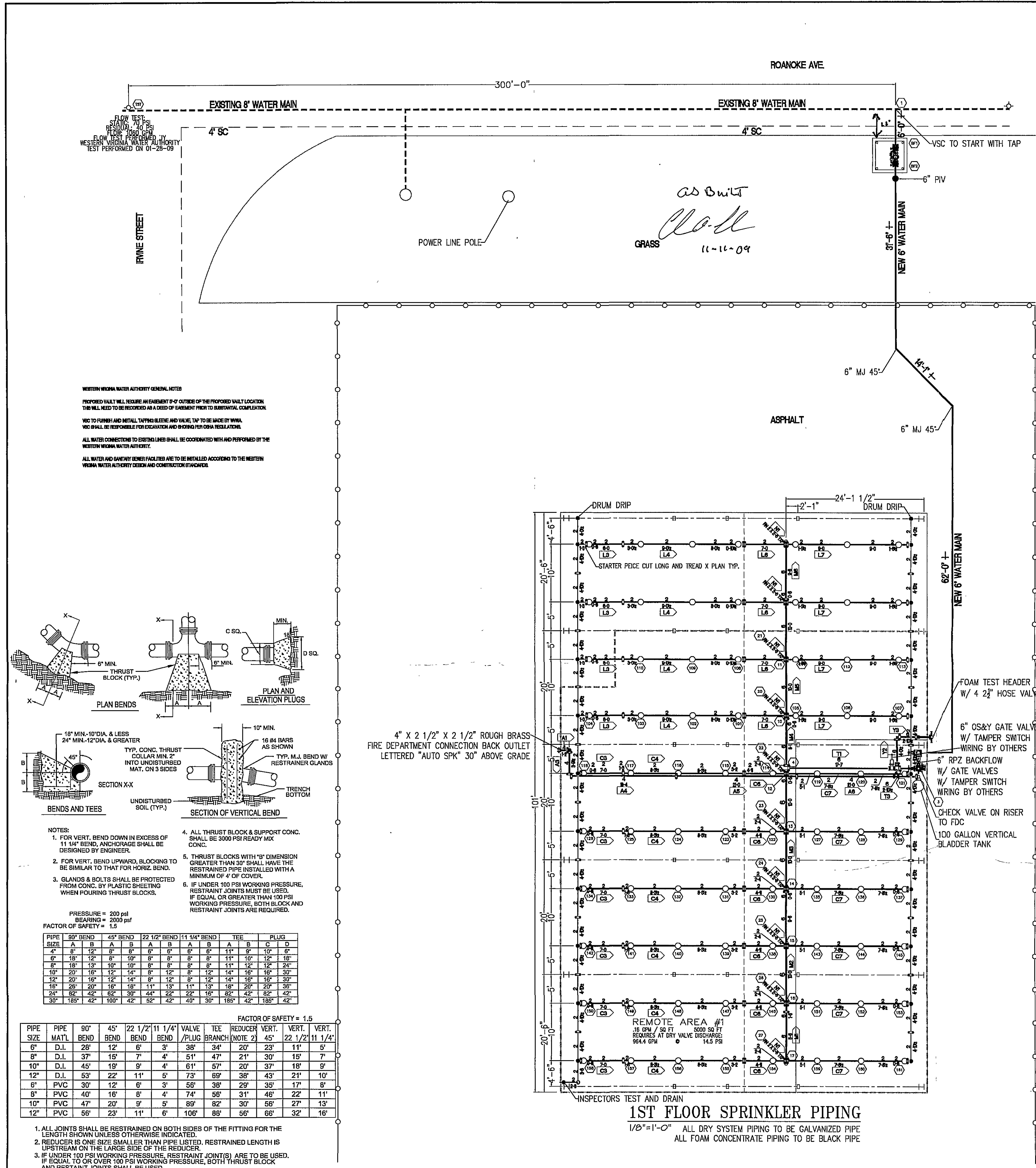




TOTAL SPRINKLERS THIS DRAWING 76										REVISIONS										CONTRACTOR/GOWNER: ROANOKE OIL DISTRIBUTION 800 WESSON AVE. #16 ROANOKE, VIRGINIA 24012 GC PROJECT MANAGER: JOE BASHAM 2515 CHERIE AVE. #100 ROANOKE, VA 24011 JOB SUPERINTENDENT: N/A JOB PHONE NUMBER: 800-368-1099										VIRGINIA SPRINKLER COMPANY, INC. COMPLETE AND APPROVED FIRE PROTECTION SYSTEMS COMPANY ROANOKE OFFICE 773 UNION STREET SALEM, VIRGINIA 24163 (540) 765-1300 FAX (540) 765-1301 RICHMOND VA. NORFOLK-VIRGINIA BEACH WASHINGTON DC BALTIMORE MD.										JOB #: JOB DATE: DRAWN BY: SCALE:										1ST FLOOR NEW SPRINKLER PIPING BASHAM OIL 2503 ROANOKE AVE, SOUTH WEST ROANOKE, VIRGINIA 24015-5522										SHEET No. 1 OF 1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
SYMBOLS										PIPE TYPES AND FITTING TYPES										HANGER TYPES										SYSTEM DESIGN CRITERIA										SPRINKLER SUMMARY										REVISIONS										CONTRACTOR/GOWNER: ROANOKE OIL DISTRIBUTION 800 WESSON AVE. #16 ROANOKE, VIRGINIA 24012 GC PROJECT MANAGER: JOE BASHAM 2515 CHERIE AVE. #100 ROANOKE, VA 24011 JOB SUPERINTENDENT: N/A JOB PHONE NUMBER: 800-368-1099										VIRGINIA SPRINKLER COMPANY, INC. COMPLETE AND APPROVED FIRE PROTECTION SYSTEMS COMPANY ROANOKE OFFICE 773 UNION STREET SALEM, VIRGINIA 24163 (540) 765-1300 FAX (540) 765-1301 RICHMOND VA. NORFOLK-VIRGINIA BEACH WASHINGTON DC BALTIMORE MD.										JOB #: JOB DATE: DRAWN BY: SCALE:										1ST FLOOR NEW SPRINKLER PIPING BASHAM OIL 2503 ROANOKE AVE, SOUTH WEST ROANOKE, VIRGINIA 24015-5522										SHEET No. 1 OF 1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
ALL PERK 2" AND SMALLER TO BE SCH40S 40 DWAYNED W/ BREAKED 20S FITTINGS UNLESS ALL TYPE 1 AND LARGER TO BE SCH40S 40 DWAYNED W/ BELL GROUND END AND WELDED OTHER END. ALL GROUNDED CONNECTIONS AND FITTINGS TO BE "FIRELOCK" W/LGO.										3/8" ATR FOR 1"-4" PIPE 1/2" ATR FOR 5"-8" PIPE										DENOTES HANGER LOCATION DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DESIGN HAZARDS: LIGHT HAZARD MAXIMUM SPACING 225 ORDINARY HAZARD CATEGORY 1 MAXIMUM SPACING 130 EXTRA HAZARD MAXIMUM SPACING 100 SYSTEM TYPES: DRY SYSTEM FOAM SYSTEM LOCAL HOSE THREADS ARE NATIONAL STANDARD SEISMIC BRACING IS NOT REQUIRED PIPE PENETRATION IS NOT REQUIRED PIPE SIZES AND FITTINGS TO BE "FIRELOCK" W/LGO.										SYM TYPE FINISH TEMP ORIF "K" NPT MANUFACTURER MODEL# ESCUTCHEON QTY. BY DESCRIPTION DATE # 0 SWABD BRASS 285 1/2" 5/8" 1/2" RELIABLE G - 76 JAC DESIGN SENT FOR APPROVAL 06-10-09 1 JAC REVISED PER ROA CITY REVIEW 07-13-09 2 JAC REVISED FOR PIPE FABRICATION 08-11-09 3 JAC NOTES ADDED PER WYWA 08-25-09 4										1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED. 2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED, RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER. 3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.										1. DENOTES HANGER LOCATION 2. DENOTES TRAPEZOID HANGER LOCATION										NPTA STANDARDS: NPTA 13 2007 NPTA 16 2007 DES									