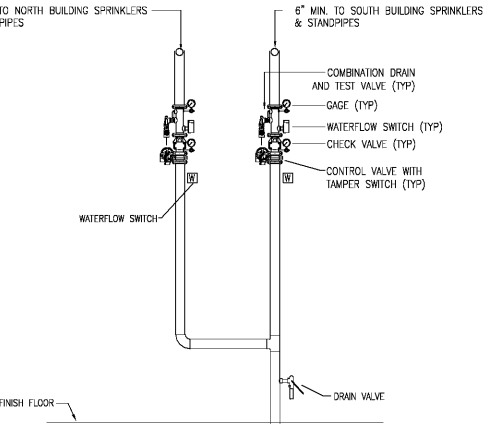
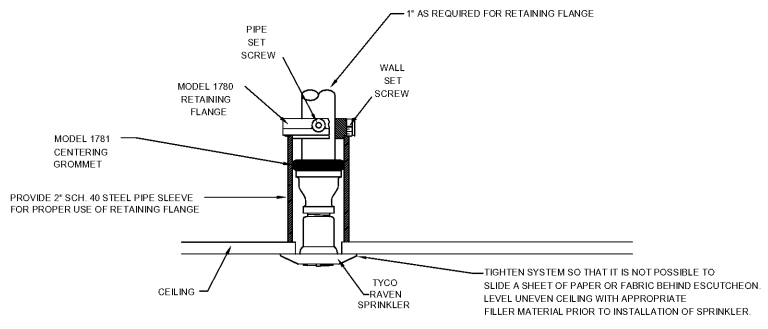
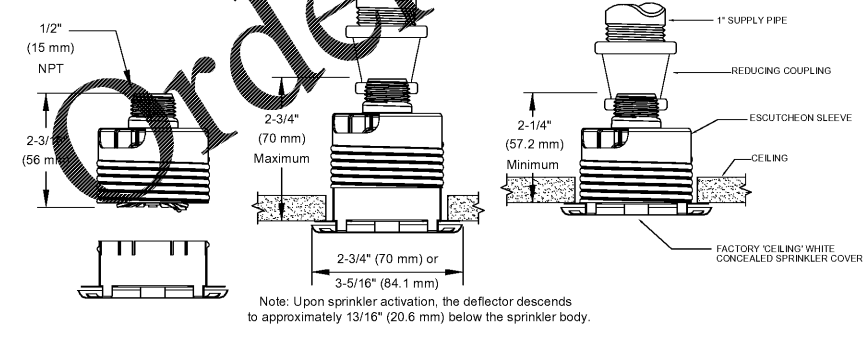
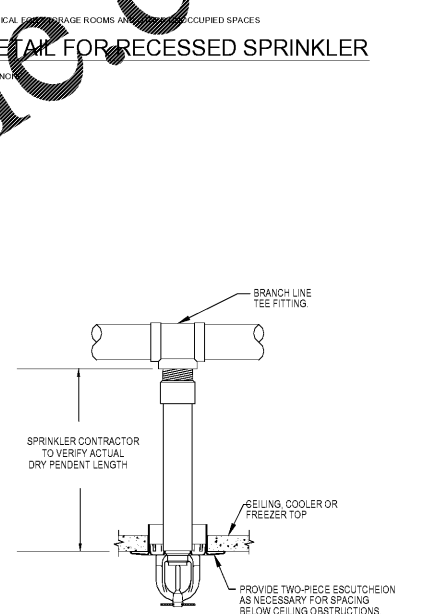
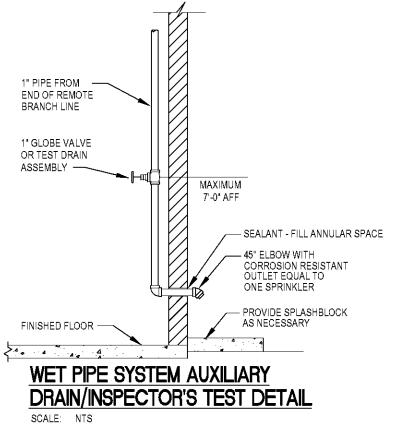
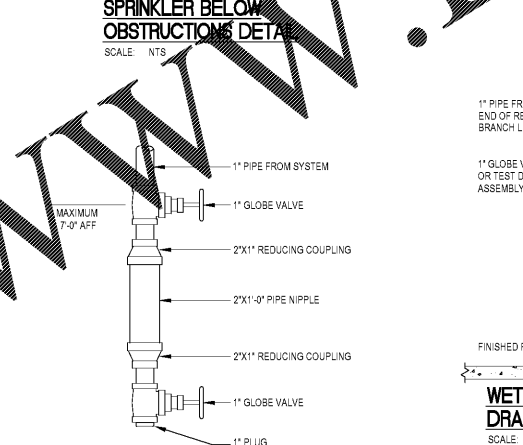
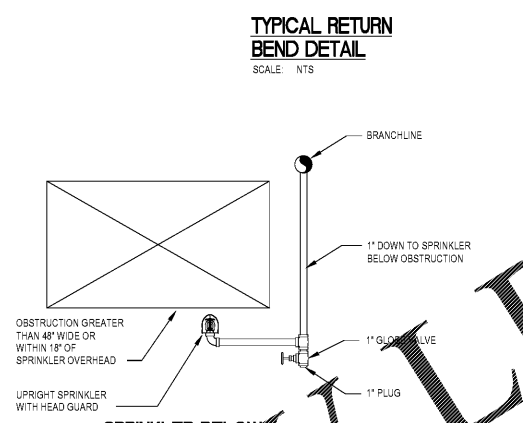
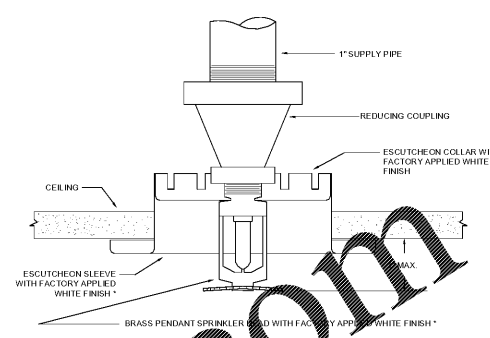
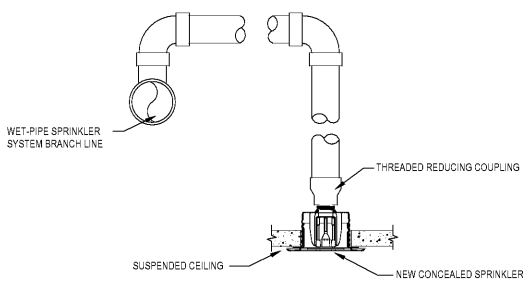


GENERAL NOTES AND SYMBOLS (ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)							
FIRE SPRINKLER SYMBOLS							
	WET-PIPE SPRINKLER/CLASS 1 STANDPIPE RISER						
	DRY-PIPE SYSTEM SPRINKLER RISER						
	2 1/2" HOSE VALVE IN RECESSED WALL CABINET						
	2 1/2" X 2 1/2" X 6" FREE-STANDING FIRE DEPARTMENT CONNECTION						
	INSPECTOR'S TEST CONNECTION/AUXILIARY DRAIN						
PIPING SYMBOLS							
	ELBOW UP						
	ELBOW DOWN						
	VALVE IN DROP						
	VALVE IN CENTER DROP						
	VALVE IN RISE						
	DIRECTION OF FLOW						
	DIRECTION OF SLOPE DOWN						
	CONCENTRIC REDUCER						
	ECCENTRIC REDUCER						
	TEE OUTLET UP						
	TEE OUTLET DOWN						
	UNION						
	STRAINER WITH BLOWDOWN VALVE						
	GATE VALVE						
	CHECK VALVE						
	PRESSURE CONTROL VALVE						
	RELIEF VALVE						
	PRESSURE GAUGE WITH GAUGE COCK						
	TEST PORT						
	FIRE PROTECTION MAIN						
	DRY MAIN						
<p>NOTE: SURGE RESTRAINERS ARE TO BE USED ONLY WITH BAND HANGERS TO RESTRAIN THE UPWARD MOVEMENT OF PIPE AS IT OCCURS DURING SPRINKLER HEAD ACTIVATION OR SEISMIC ACTIVITY. INSTALL AT ENDS OF LINES AND AT 30' INTERVALS ON BRANCH LINES.</p> <p>SURGE RESTRAINERS SCALE: NTS</p>							
FIRE SPRINKLER GENERAL NOTES							
A. PROVIDE COMPLETE WET PIPE AND DRY PIPE FIRE SPRINKLER SYSTEMS FOR THE ENTIRE BUILDING DESIGNED AND INSTALLED IN ACCORDANCE WITH CURRENT NFPA 13, NFPA 14, 2015 IFC, AND SPECIFICATIONS.							
B. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.							
C. REFER TO ARCHITECTURAL DRAWINGS FOR ROOM FINISH SCHEDULE AND ROOM USE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR THE LOCATION OF LIGHTING, HVAC SUPPLY AND HVAC RETURN. SPRINKLER CONTRACTOR TO USE ARCHITECTURAL REFLECTED CEILING PLAN AS THE BASIS TO PREPARE SPRINKLER HEAD LOCATION FOR SHOP DRAWINGS. FIELD VERIFY AND COORDINATE THE LOCATIONS OF ALL SYSTEM COMPONENTS INCLUDING PIPING, ALARMS, DRAINS, TEST POINTS, ETC. WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL EQUIPMENT WITHIN THE BUILDING.							
D. PROVIDE SLEEVES AND WALL PLATES FOR ALL PENETRATIONS THROUGH WALLS OR FLOORS THAT MIGHT INCLUDE DRILLING THROUGH CONCRETE, METAL, SHEETROCK, OR OTHER MATERIALS. FIELD VERIFY APPROXIMATE WALL AND FLOOR PENETRATIONS SHOWN ON THE PLANS. SEAL ALL PENETRATIONS IN RATED SEPARATION TO MEET THE MINIMUM FIRE RATING OF THE WALL OR FLOOR.							
E. UTILIZE CURRENT WATER FLOW TEST INFORMATION FOR HYDRAULIC CALCULATIONS. VERIFY SYSTEM DESIGN AND LAYOUT PRIOR TO FABRICATION OR INSTALLATION.							
F. THE TOTAL CALCULATED WATER DEMAND FOR EACH OCCUPANCY IS EQUAL TO THE SUM OF THE SPRINKLER SYSTEM DEMAND PLUS THE COMBINED HOSE STREAM ALLOWANCE REQUIRED PER NFPA.							
G. COORDINATE THE LOCATION OF RISERS, DRAINS, TEST CONNECTIONS, AND OTHER SPRINKLER SYSTEM COMPONENTS WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL COMPONENTS OF THE BUILDING.							
H. CONTRACTOR SHALL HAVE A FIRE PROTECTION ENGINEER HYDRAULICALLY CALCULATE THE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13R. DENSITY AND SPACING REQUIREMENTS PER NFPA. INCREASE THE DESIGN AREA OF SPRINKLER OPERATION BY 30% FOR DRY-PIPE SYSTEMS PER NFPA.							
I. PROVIDE CONCEALED SPRINKLERS WITH CUSTOM COLOR COVER PLATES FOR AREAS WITH ACOUSTICAL LAY-IN CEILING. ALL COVER PLATES FOR CONCEALED HEADS TO BE FACTORY FINISHED CEILING WHITE. CENTER SPRINKLERS IN TWO DIRECTIONS FOR CEILING TILE AND ALIGN SPRINKLERS WHERE POSSIBLE WITH LIGHT FIXTURES IN OTHER CEILING. PROVIDE QUICK RESPONSE BRASS UPRIGHT SPRINKLERS IN AREAS EXPOSED TO STRUCTURE, COLOR BY ARCHITECT. CLEAN AND PAINT ALL SPRINKLER PIPING EXPOSED TO VIEW. COLOR AS SELECTED BY ARCHITECT. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE.							
J. PROVIDE HANGERS AND SWAY BRACING FOR ALL SPRINKLER AND STANDPIPE PIPING PER NFPA 13.							
K. PROVIDE THREADED OR WELDED BLACK SCHEDULE 40 FOR 2" AND SMALLER PIPING AND GROOVED OR WELDED SCHEDULE 10 FOR 2-1/2" AND LARGER PIPING. PROVIDE GALVANIZED PIPE AND FITTINGS FOR THE DRY-PIPE SPRINKLER SYSTEM.							
L. PROVIDE AUXILIARY DRAINAGE FOR ALL TRAPPED SECTIONS OF PIPE. PITCH DRY-PIPE SPRINKLER SYSTEM PIPING PER NFPA 13 GUIDELINES.							
M. PROVIDE ACCESS DOORS AND SIGNAGE WHERE ACCESS IS REQUIRED TO CONCEALED SPRINKLER EQUIPMENT, VALVES, AND CONTROLS LOCATED IN WALLS OR ABOVE CEILING AS APPROVED BY THE OWNER.							
N. EXTREME COORDINATION SHALL BE REQUIRED WITH OTHER TRADES PRIOR TO INSTALLATION AND DURING ALL INSTALLATION OF FIRE PROTECTION SYSTEMS.							
O. PROVIDE SEISMIC BRACING PER NFPA 13 FOR ALL SPRINKLER PIPING IN THIS FACILITY.							
P. THESE DOCUMENTS DEPICT PERFORMANCE DESIGN ONLY. PROVIDE COMPLETE DOCUMENTS FOR APPROVAL FROM THE AUTHORITY HAVING JURISDICTION. INCLUDE IN THE DRAWINGS ANY ADDITIONAL EQUIPMENT NECESSARY TO COMPLETE THE INSTALLATION AND COMPLY WITH BASE STANDARDS.							
Q. SPRINKLER SYSTEM DESIGNER SHALL COORDINATE WITH STATE AND LOCAL AUTHORITY/FIRE CHIEF.							
R. PROVIDE KNOX LOCKING CAPS ON ALL FDC AND STANDPIPES.							
S. LABEL ALL PIPE PER SPECIFICATIONS.							
<p>T. FLOW DATA FOR EXISTING CITY WATER MAIN: CONTRACTOR CAUTION: WATER SUPPLY IS MINIMAL AND MAY REQUIRE REDUCED SPRINKLER SPACING AND INCREASED PIPE SIZING. CONTRACTOR TO FIELD VERIFY/PROVIDE FLOW TEST PRIOR TO FINAL DESIGN AND SHALL MAKE ALL REQUIRED ADJUSTMENTS WITH NO COST TO OWNER. FLOW HYDRANT: 510 S. Royal Street, PRESSURE: 100 PSI, FLOW: 1840 GPM.</p> <table border="1"> <tr> <td>STATIC PRESSURE:</td> <td>80 PSI</td> </tr> <tr> <td>RESIDUAL PRESSURE:</td> <td>40 PSI</td> </tr> <tr> <td>FLOW:</td> <td>1840 GPM</td> </tr> </table>		STATIC PRESSURE:	80 PSI	RESIDUAL PRESSURE:	40 PSI	FLOW:	1840 GPM
STATIC PRESSURE:	80 PSI						
RESIDUAL PRESSURE:	40 PSI						
FLOW:	1840 GPM						



NOTE: SIZES NOT SHOWN TO BE PER CONTRACTOR HYDRAULIC CALCULATIONS
NOTE: INTERCONNECT ALL RISER DRAINS AND DRIPS AND ROUTE THROUGH EXTERIOR WALL TO DISCHARGE AT 12" ABOVE FINISH GRADE. PROVIDE CONCRETE SPLASH BLOCK.

ZGOUVAS, EIRING & ASSOCIATES
CONSULTING ENGINEERS
800 S. MONROUELL STREET
MONTGOMERY, AL 36104
334.283.4408
ZEA PROJECT NUMBER 18-166

architects inc.
Montgomery, Alabama

PH&J
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UPGRADES TO THE MOBILE COUNTY METRO JAIL
For The MOBILE COUNTY COMMISSION
MOBILE, ALABAMA

Professional Engineer
No. 23368
Professional
04/02/2018
PH&J ENGINEERING

DRAWN: CW CHECK: TZ
DATE: APRIL 2, 2019 RTA
REVISED:
REVISED:

SHEET TITLE: FIRE PROTECTION DETAILS AND NOTES
JOB NO.: PH&J1801GV
SEQUENCE NO.: 99 OF 175

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