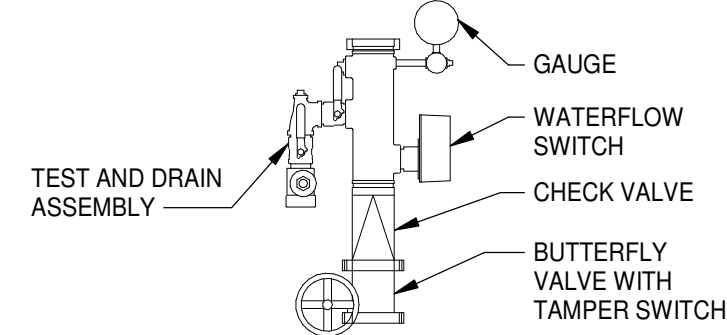


GENERAL SCOPE OF WORK	
THE FIRE PROTECTION DEMOLITION WORK SHALL INCLUDE THE FOLLOWING:	
A.	REMOVE AND REPLACE ALL SPRINKLERS THROUGHOUT THE BUILDING.
B.	REMOVE AND REPLACE THE FOLLOWING VALVES:
1.	EXISTING PIV
2.	EXISTING CONTROL VALVES WITH INTEGRAL TAMPER SWITCHES
C.	REMOVE AND REPLACE EXISTING TAMPER SWITCHES ON OS&Y VALVES.
D.	REMOVE AND REPLACE THE EXISTING FDC AND FIRE PUMP TEST HEADER.
E.	REFURBISH THE EXISTING ELECTRIC FIRE PUMP AND RESTORE TO OPERATING CONDITION. AT MINIMUM REPLACE THE IMPELLER, MOTOR AND ALL SEALS. CLEAN ALL EXISTING COMPONENTS TO REMAIN.
F.	REMOVE AND REPLACE EXISTING JOCKEY PUMP.
G.	REMOVE AND REPLACE EXISTING FIRE PUMP CONTROLLER AND JOCKEY PUMP CONTROLLER.
H.	REMOVE THE EXISTING SECOND FLOOR ZONE CONTROL ASSEMBLY, REPLACE WITH A NEW ZONE CONTROL ASSEMBLY.
I.	REMOVE THE EXISTING DRY PIPE SPRINKLER SYSTEM IN THE ATTIC COVERING THE MECHANICAL EQUIPMENT PLATFORM, PROVIDE A NEW WET PIPE SYSTEM COVERING THE ENTIRE ATTIC SPACE.

EXISTING JOCKEY PUMP DATA
THE FOLLOWING DATA SHALL BE USED FOR BID PURPOSES ONLY. CONFIRM DATA PRIOR TO PERFORMING WORK:
JOCKEY PUMP:
BALDOR INDUSTRIAL MOTOR SPEC. 35K701-186F5 3 HORSEPOWER 3 PHASE, 208-230/460 V, 60Hz

EXISTING FIRE PUMP DATA
THE FOLLOWING DATA SHALL BE USED FOR BID PURPOSES ONLY. CONFIRM DATA PRIOR TO PERFORMING WORK:
FIRE PUMP:
ITT A-C PUMP CENTRIFUGAL FIRE PUMP, HORIZONTAL SPLIT CASE TYPE 8100, 8X6X12 F RATED 750 GPM AT 50 PSI 1765 RPM, IMPELLER DIAMETER 11.60, 1 STAGE MAXIMUM BRAKE HORSEPOWER 37.2
FIRE PUMP ELECTRIC MOTOR:
U.S. ELECTRICAL MOTORS, DIVISION OF EMERSON ELECTRIC CO MODEL G203A, 40 HP, 3 PHASE, 60Hz FRAME 324T, TYPE D, ENCLOSURE DP, SERVICE FACTOR 1.15, 1775 RPM 230V, 102.4 AMPS; 460V, 51.2 AMPS

ABBREVIATIONS	
@	AT
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BLDG	BUILDING
CL	CENTERLINE
CLS	CEILING
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUATION
CORR	CORRIDOR
CR	CLASSROOM
CU	CUBIC
CU FT	CUBIC FEET
DCW	DOMESTIC COLD WATER
DEG	DEGREE(S)
DEMO	DEMOLISH OR DEMOLITION
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DN	DOWN
DP	DRY PIPE
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
E	EAST
ECGH	ELECTRIC CEILING HEATER
EF	EXHAUST FAN
EH-1	EXTRA HAZARD GROUP 1
EH-2	EXTRA HAZARD GROUP 2
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EWI	ELECTRIC WATER HEATER
EX	EXISTING
EXP	EXPANSION
F	FARENHEIT
FD	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHS	FIRE HOSE STATION
FHVC	FIRE HOSE VALVE CABINET
FLR	FLOOR
FP	FIRE PROTECTION
FT	FOOT OR FEET
FVC	FIRE VALVE CABINET
GAL	GALLONS
GPM	GALLONS PER MINUTE
GUH	GAS-FIRED UNIT HEATER
HB	HOSE BIB
HD	HEAD
HORIZ	HORIZONTAL
HP	HORSEPOWER
HW	HOT WATER
ID	INSIDE DIAMETER
IN	INCH
INSUL	INSULATE OR INSULATION
JAN	JANITOR
KIT	KITCHEN
KW	KILOWATTS
LAB	LABORATORY
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FOOT (FEET)
LH	LIGHT HAZARD
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
N	NORTH
NA	NOT APPLICABLE/AVAILABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO. OR #	NUMBER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OH-1	ORDINARY HAZARD GROUP 1
OH-2	ORDINARY HAZARD GROUP 2
P	PUMP
PC	PRECAST
PV	POST INDICATOR VALVE
POLY	POLYETHYLENE
PREFAB	PREFABRICATE(D)
PROJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
R	RISER
REF	REFERENCE
REQ	REQUIRED
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
S	SOUTH
SAN	SANITARY
SCH	SCHEDULE
SD	SMOKE DAMPER
SHT	SHEET
SH	SIMILAR
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SO	SQUARE
STD	STANDARD
STL	STEEL
STOR	STORAGE
SW	SWITCH
T	TEMPERATURE
THK	THICKNESS
TLT	TOILET
TOSL	TOP OF SLAB
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UJ	UNLESS UNDOICATED
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTS
VERT	VERTICAL
W	WEST
W	WITH
W/O	WITHOUT
WH	WATER HEATER



ZONE CONTROL ASSEMBLY
NO SCALE

GRAPHICS SYMBOLS LEGEND	
	VALVE
	GATE VALVE
	VALVE IN RISER
	CHECK VALVE
	SOLENOID VALVE
	FLOW SWITCH
	PRESSURE REDUCING VALVE
	DOUBLE CHECK BACKFLOW PREVENTER
	FIRE PROTECTION WET SPRINKLER PIPING
	FIRE PROTECTION DRY SPRINKLER PIPING
	FIRE EXTINGUISHING GAS PIPING
	FIRE PROTECTION DRY SPRINKLER PIPING
	UNION
	PRESSURE GAUGE WITH GAUGE COCK
	PIPE TURNED DOWN
	PIPE TURNED UP
	PIPE TEE UP
	PIPE TEE DOWN
	PIPE CAP
	PITCH PIPE DOWN IN DIRECTION OF ARROW AT INDICATED SLOPE
	FLOW IN DIRECTION OF ARROW
	CONCENTRIC PIPE REDUCTION
	ECCENTRIC PIPE REDUCTION
	PUMP
	FIRE DEPARTMENT CONNECTION
	PENDANT SPRINKLER HEAD
	CONCEALED PENDANT SPRINKLER HEAD
	EXTENDED COVERAGE PENDANT SPRINKLER HEAD
	CONCEALED EXTENDED COVERAGE PENDANT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD WITH GUARD
	UPRIGHT SPRINKLER HEAD
	EXTENDED COVERAGE UPRIGHT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD WITH GUARD
	SIDEWALL SPRINKLER HEAD
	EXTENDED COVERAGE SPRINKLER HEAD
	CONCEALED EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD
	EXTINGUISHING AGENT DISCHARGE NOZZLE
	COMBINATION AUDIBLE AND STROBE ALARM
	MANUAL PULL STATION
	ABORT SWITCH
	IONIZATION SMOKE DETECTOR
	PHOTOELECTRIC SMOKE DETECTOR
	POINT OF CONNECTION TO EXISTING
	LIMIT OF DEMOLITION
	KEYNOTE
	SPACE IDENTIFICATION TAG
	EQUIPMENT IDENTIFICATION TAG
	STRUCTURAL GRID LINE WITH DESIGNATION
	SECTION WHERE CUT
	ENLARGED PLAN WHERE CUT
	DETAIL TAG
	DETAIL TITLE
	SECTION TITLE

GENERAL NOTES	
A.	THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
B.	COORDINATE THE LOCATION OF ALL SPRINKLER PIPING WITH THE WORK OF OTHER TRADES. SPRINKLER PIPING SHALL NOT BE INSTALLED WHERE ITS LOCATION INHIBITS ACCESS TO EQUIPMENT ABOVE THE CEILING, FILTER ACCESS OR INFRINGES UPON CLEARANCES DICTATED BY THE NATIONAL ELECTRIC CODE.
C.	VERIFY DIMENSIONS AND ROUTING IN FIELD BEFORE FABRICATION OF PIPING AND FIXTURES.
D.	REFER TO THE LIFE SAFETY PLAN FOR LOCATIONS OF FIRE AND SMOKE SEPARATION ASSEMBLIES.
E.	REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS TO STEEL BAR JOISTS, BEAM CLAMPS SHALL NOT BE PERMITTED AS ATTACHMENTS TO BAR JOISTS. BUILDING SEISMIC DESIGN CATEGORY IS B.
F.	PROVIDE COMPLETE FIRE PROTECTION SPRINKLER SYSTEM INSTALLATION DRAWINGS PREPARED BY A PROFESSIONAL ENGINEER LICENSE TO PRACTICE IN THE STATE OF NORTH CAROLINA OR BY A NICET LEVEL III OR LEVEL IV CERTIFIED TECHNICIAN IN THE FIELD OF WATER BASED SYSTEMS LAYOUT. THE ATTIC SHALL BE FULLY SPRINKLERED WITH A HYDRAULICALLY DESIGNED WET PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE, NFPA 13 2013 EDITION, AND THE LOCAL AUTHORITY HAVING JURISDICTION.
G.	PIPE TO SPRINKLERS UNDER STAIR LANDINGS SHALL BE RUN TIGHT TO THE UNDERSIDE OF THE STAIR.
H.	PROVIDE INTERMEDIATE TEMPERATURE SPRINKLERS WHEN INSTALLED 2'-6" OR LESS TO AN HVAC SUPPLY DIFFUSER IN THE CEILING AS REQUIRED BY NFPA 13 TABLE 8.3.2.5(a) ITEM (1)(c) FOR HORIZONTAL DISCHARGE.

DESIGN FLOW DATA
THE FOLLOWING DATA SHALL BE USED FOR BID PURPOSES ONLY. CONFIRM DATA PRIOR TO CALCULATING PIPE SIZES:
LOCATION OF TEST:
STATIC PRESSURE:
RESIDUAL PRESSURE:
FLOW AT TIME OF TEST:
DATE OF TEST:

SPRINKLERS
PROVIDE THE FOLLOWING SPRINKLER TYPES UNLESS NOTED OTHERWISE ON THE DRAWINGS:
IN SUSPENDED ACoustICAL OR GYPSUM CEILINGS PROVIDE CONCEALED, QUICK RESPONSE, GLASS BULB TYPE SPRINKLERS WITH WHITE COVER PLATE.
FOR HORIZONTAL SIDEWALL APPLICATIONS, PROVIDE RECESSED, QUICK RESPONSE, GLASS BULB TYPE SPRINKLERS WITH WHITE FINISH AND MATCHING ESCUTCHEON.
IN EQUIPMENT ROOMS, STORAGE ROOMS, AND OTHER AREAS WITHOUT SUSPENDED CEILINGS PROVIDE STANDARD UPRIGHT, QUICK RESPONSE TYPE SPRINKLERS WITH BRASS FINISH.
SPECIFIC APPLICATION ATTIC SPRINKLERS, INSTALLED IN ACCORDANCE WITH NFPA 15 AND THE MANUFACTURER'S DESIGN CRITERIA, ARE PERMITTED.
SPRINKLERS UNDER STAIR LANDINGS SHALL BE UPRIGHT WITH GUARD.

PROJECT NO.	DATE
580999	MARCH 27, 2019
REVISIONS	
DATE	DESCRIPTION