









LEGEND		
TYP.	TYPICAL	----- EXISTING 2 HOUR FIRE BARRIER
U/F	UNDER FLOOR	
RPZ	REDUCED PRESSURE ZONE ASSEMBLIES	
MC	MECHANICAL CONTRACTOR	
GC	GENERAL CONTRACTOR	
CONT.	CONTINUATION	
N/A	NOT APPLICABLE	
PC	PLUMBING CONTRACTOR	
RM.	ROOM	
BLDG.	BUILDING	
KEC	KITCHEN EQUIPMENT CONTRACTOR	
HVAC	HEATING, VENTILATING, AIR CONDITIONING	
F/#	FOR/NUMBER OF HEADS	

SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE AS REQUIRED BY CODE. CONTRACTOR TO CONSULT WITH SPECIFICATIONS REGARDING EXPOSED SPRINKLER HEAD FINISH BEFORE ORDERING.

SCHEDULE OF SPRINKLER HEADS	
SYMBOL	DESCRIPTION
	Pendant Semi-recessed head with white finish and upright sprinkler head. 1/2" orifice, 155°F. <i>UL Listed</i> and FM approved. "Rooster Style"
	Pendant fully-recessed anti-corrosion head with finish cover plate. 1/2" orifice, 155°F – Steam and Sauna rooms head temperature shall be a minimum of 285°F. <i>UL Listed</i> and FM approved. Reliable Sprinkler F1FR–56 series or Viking VK302 with ENT Coating.
	Dry Pendant Semi-recessed head with white finish and upright sprinkler head. 1/2" orifice, 155°F. <i>UL Listed</i> and FM approved. "Rooster Style"
	Upright brass head. 1/2" orifice, 210°F. <i>UL Listed</i> and FM approved.
	Dry-Upright brass head. 1/2" orifice, 210°F. <i>UL Listed</i> and FM approved.
	Full-(concealed) head with white finish, 1/2" orifice, 165°F. <i>UL Listed</i> and FM approved.
	Sidewall type head with white finish, 1/2" orifice, 155°F. <i>UL Listed</i> and FM approved.
	Dry Sidewall type head with white finish and white escutchen. 1/2" orifice, 155°F. <i>UL Listed</i> and FM approved.

FIRE PROTECTION SYSTEMS SPECIFICATIONS

- The contractor shall be responsible for a complete turn key installation using Underwriter Laboratories UL listed products including design, obtaining approvals and coordination with other trades. Install to meet NFPA 13, NFPA 72, NFPA 101, and the local Authority Having Jurisdiction requirements.
- Sprinkler heads, mains, runouts, tailbacks, sprigs etc. shall be provided as follows:
 - The fire protection contractor shall provide services for this project on a design build basis. Provide all required materials and designs for a 100% complete, functional and code compliant installation. Provide piping drawings, schematics, material specifications etc. with flow calculations to the local jurisdiction having authority for review and approval prior to installation. All prospective bidders shall visit the site prior to bid submission to verify field conditions and scope of work. Coordinate main fire protection service size requirements and all locations of fire protection mains serving the building with the Civil Engineer and Architect prior to bid submission. Provide flow and tamper switches as required and coordinate terminations with the electrical contractor. Main fire protection service is existing, provide new drops to new sprinkler heads.
- Sprinkler head locations shall be used as a guide for bid. Sprinkler locations show approximate locations with full rcp and field coordination to be provided by the successful contractor. Provide all heads as required per NFPA 13. Verify locations and sizes of existing fire protection piping and heads. Verify all new piping and head requirements with hydraulic calculations. The existing 2 hour fire wall separates the building into 2 separate buildings. Since Level 3 alterations are being done that requires sprinklers in work areas per Section 804.2 of the NY State Existing Building Code. The occupancy of the space (B occupancy) does not require sprinklers by Chapter 9 of the NY State Building Code – see Architectural Code Compliance Plan. However, the existing conditions have the building partially sprinklered and that must be maintained – see floor plans. The non-sprinklered side has 2 exits (stairs) as well as the sprinklered side (stair and horizontal) for egress purposes.
- The suggested sprinkler locations are not intended to limit the contractor from providing another design that may be more economical and still meet the requirements of the local Authority Having Jurisdiction and NFPA.
- Comply with Architectural requirements for painting interior piping. Paint exposed, interior metal piping, valves, and piping specialties, except components, with factory-applied paint or protective coating. Exposed sprinkler heads shall be ordered according to color requirements below.

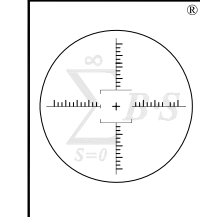
W.B. Light Industrial Coating: MPI INT 5.1B – G5. Prime Coat: Rust Inhibitive Primer. (MPI #107). Intermediate Coat: W.B. Light Industrial Coating (MPI #153). Topcoat: W.B. Light Industrial Coating (MPI #153). Color: Black.

Damage and Touchup: Repair marred and damaged factory-applied finishes with materials and by procedures to match original factory finish.
- Working plans and computerized hydraulic calculations shall be prepared by a minimum Level 3 N.I.C.E.T. Certified Sprinkler Layout Designer. Submit working plans and hydraulic calculations signed and sealed by a Professional Fire Protection Engineer registered in the state in which the project is located, to Authorities that Have Jurisdiction. Design documents are for permit purposes. The design is not intended to limit the contractor from providing another design that may be more economical and still meet the requirements of the Local Authority Having Jurisdiction. All drawings, including As-Builts, shall be submitted on disc using AUTO CAD.
- The hydraulic calculations shall include the pressure drop through all pipe, fittings and devices, including the pressure drop through the reduced pressure principle backflow preventer, from the most hydraulic remote point of the sprinkler system to the location of the test hydrant.
- Submit drawings to local fire dept. and obtain necessary approvals, permits and certificates prior to submission to the engineer for final review.
- Where required by code or directed by local authorities, contractor shall provide seismic hanging & constraints on all piping in complete accordance with the latest issue of the State Plumbing Building Code, local codes and NFPA.
- The fire protection contractor shall provide a guarantee covering all design, installation, material and workmanship for five years following date of acceptance by Owner.
 - Static pressure psi.
 - Residual pressure psi.
 - Flow gpm.
 - Flow/test hydrant locations.
 - Date of test.
 - Time of test.
 - Responsible party conducting test.
 - Hydrant outlet discharge coefficient.
- The hydraulic calculations shall be based on the flow test data listed below (this information shall be provided by the fire protection contractor at submittal of shop drawings and calculations):

- Piping shall be sloped to drain back to sprinkler riser. Auxiliary drainage in accordance with NFPA 13 shall be provided for all trapped sections of pipe.
- Pipe all drains and inspector's test to outside, or discharge to a drain approved by the owner for sprinkler discharge.
- Provide automatic sprinkler below obstructions 48 inches and wider. (platforms, ductwork, stairways, unit heater, etc).
- Refer to the architectural drawings for reflected ceiling plans and coordinate all work with all other contractors prior to installation of the sprinkler system. Up front field coordination between all contractors is required due to limited space constraints.

NOTICE

This document, the property of, prepared and issued by the architect, is submitted for the specific project namely _____ and the recipient by accepting this document assumes custody and agrees that this document will not be copied or reproduced in part or in whole, and any special features peculiar to this design shall not be incorporated in any other project, unless prior agreement has been obtained in writing. These documents will be returned immediately upon completion of the project or upon the request of the architect. This document is the exclusive property of the architect, no rights to ownership are transferable, or shall be lost by the filing of this document with any and all public authorities for the purpose of compliance with Codes and or Ordinances, i.e. Building Permit, etc.



EBS ENGINEERING, PC
ENGINEERED BUILDING SYSTEMS
MECHANICAL ELECTRICAL ENGINEERS
2508 WALDEN AVENUE
SUITE 107
CHEEKTOWAGA, NEW YORK 14225
PHONE: (716) 836-9600
FAX: (716) 836-9636
EMAIL: MAIL@EBSPE.COM
WEBSITE: WWW.EBSPE.COM
COPYRIGHT © 2020 ENGINEERED BUILDING SYSTEMS

Bryant & Stratton

110 Broadway

Buffalo, NY

ISSUE:
2020-05-01: ISSUED FOR BID

SA PROJECT TEAM: PRINCIPAL P.Silvestri
PROJ. ARCH. S.Hunt DRAFTER _____
JOB CAPT. _____ INTERIORS N.Catuzza

SEAL:

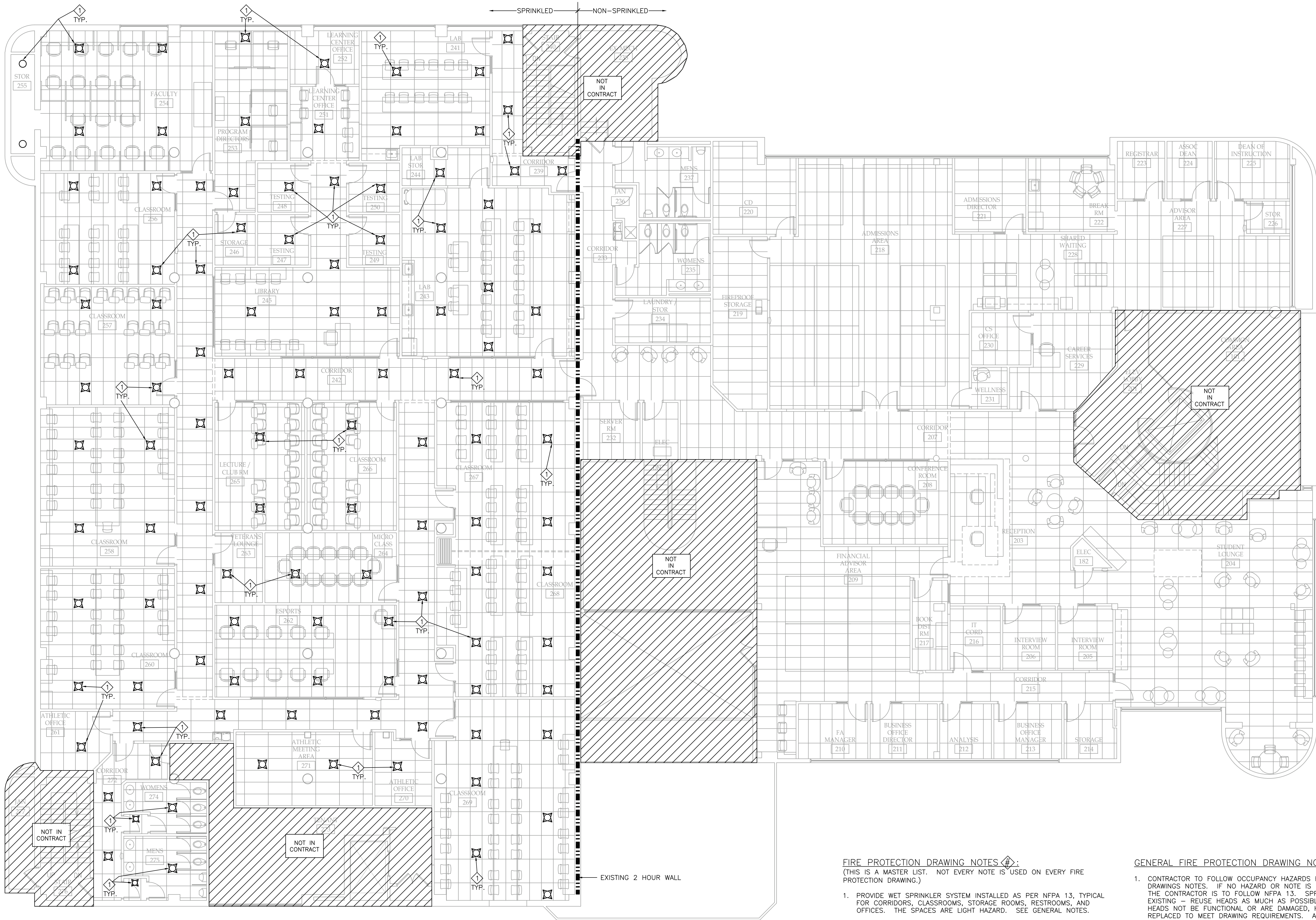
TITLE:
FIRE PROTECTION
LEGENDS,
SCHEDULES,
DETAILS, &
SPECIFICATIONS




SILVESTRI
ARCHITECTS • PC
1321 MILLERSPORT HWY PH. 716.691.0900
AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 19099.02
DATE: 4-6-2020

DRAWING #: FP-1



1 FIRE PROTECTION FLOOR PLAN
FP-2 SCALE: 1/8" = 1'-0"

FIRE PROTECTION DRAWING NOTES :
(THIS IS A MASTER LIST. NOT EVERY NOTE IS USED ON EVERY FIRE PROTECTION DRAWING.)

1. PROVIDE WET SPRINKLER SYSTEM INSTALLED AS PER NFPA 13, TYPICAL FOR CORRIDORS, CLASSROOMS, STORAGE ROOMS, RESTROOMS, AND OFFICES. THE SPACES ARE LIGHT HAZARD. SEE GENERAL NOTES.

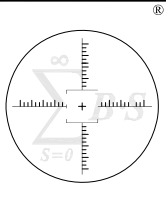
GENERAL FIRE PROTECTION DRAWING NOTES:

1. CONTRACTOR TO FOLLOW OCCUPANCY HAZARDS REFERRED TO IN DRAWINGS NOTES. IF NO HAZARD OR NOTE IS GIVEN FOR A SPACE, THE CONTRACTOR IS TO FOLLOW NFPA 13. SPRINKLER SYSTEM IS EXISTING - REUSE HEADS AS MUCH AS POSSIBLE. SHOULD EXISTING HEADS NOT BE FUNCTIONAL OR ARE DAMAGED, HEADS ARE TO BE REPLACED TO MEET DRAWING REQUIREMENTS. ALL DIRTY HEADS IN WORK AREA SHALL BE CLEANED PER NFPA 13. SPACES NOTED AS "NOT IN CONTRACT" ARE OUTSIDE THE WORK AREA. COVERAGE IN THESE AREAS SHALL NOT BE DISRUPTED. IF DISRUPTIONS CANNOT BE AVOIDED, COORDINATE WITH OWNER BEFORE BEGINNING WORK.
2. COORDINATE ALL PIPING WITH EXISTING STRUCTURE AND ALL OTHER WORK. COORDINATE WORK WITH CEILING TYPES SHOWN ON ARCHITECTURAL DRAWINGS. ALL PLACES WITH EXISTING CEILINGS - SPRINKLER HEADS SHALL REMAIN AS CURRENTLY LOCATED (UNLESS OTHERWISE NOTED). ALL SPRINKLER WORK SHOWN IS IN NEW CEILING AREAS.
3. CONTRACTOR TO COORDINATE WITH CEILING, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL CONTRACTORS IN REGARDS TO RUNNING SPRINKLER PIPING AND HEAD LOCATIONS BEFORE BEGINNING WORK. PIPING TO BE CONCEALED AS MUCH AS POSSIBLE. ANY PIPING NOT ABLE TO BE CONCEALED IS TO BE PAINTED PER SPECIFICATIONS.
4. WHERE UPRIGHT SPRINKLER HEADS ARE SHOWN, SPRINKLER PIPING IS TO RUN EXPOSED TO EACH HEAD.

NOTICE

This document, the property of, prepared and issued by the architect, is submitted for the specific project namely _____ and the recipient by accepting this document assumes custody and agrees that this document will not be copied or reproduced in part or in whole, and any special features peculiar to this design shall not be incorporated in any other project, unless prior agreement has been obtained in writing. These documents will be returned immediately upon completion of the project or upon the request of the architect.

This document is the exclusive property of the architect, no rights to ownership are transferable, or shall be lost by the filing of this document with any and all public authorities for the purpose of compliance with Codes and or Ordinances, i.e. Building Permit, etc.



ERS ENGINEERING, PC
ENGINEERED BUILDING SYSTEMS
MECHANICAL ELECTRICAL ENGINEERS
2508 WALDEN AVENUE
SUITE 107
CHEEKTOWAGA, NEW YORK 14225
PHONE: (716) 836-9600
FAX: (716) 836-9636
EMAIL: MAIL@ERSPE.COM
WEBSITE: WWW.ERSPE.COM
COPYRIGHT © 2020 ENGINEERED BUILDING SYSTEMS

Bryant & Stratton
110 Broadway
Buffalo, NY

ISSUE:
2020-05-01: ISSUED FOR BID

SA PROJECT TEAM: PRINCIPAL P.Silvestri
PROJ. ARCH. S.Hunt DRAFTER _____
JOB CAPT. _____ INTERIORS N.Catuzza

SEAL:

TITLE:
**FIRE PROTECTION
FLOOR PLAN**



SILVESTRI
ARCHITECTS • PC
1321 MILLERSPORT HWY PH. 716.691.0900
AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: **19099.02** DATE: **4-6-2020**

DRAWING #: **FP-2**