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NOTE: USED EXTENDED RANGE DRY HEAD SIDEWALL DEVICES. (TYPICAL ALL LAB COVERED AREAS)

NOTE: DUST COLLECTION SYSTEM SHALL HAVE SPARK DETECTION AND EXTINGUISHING SYSTEM. SPRINKLER CONTRACTOR SHALL CONNECT SPRINKLER SYSTEM PIPING TO DUST COLLECTION EXTINGUISHING SYSTEM. COORDINATE EXACT REQUIREMENTS WITH DUST COLLECTOR MANUFACTURER AND NFPA 13.

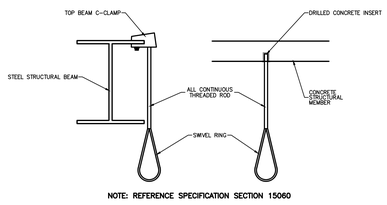
LOC OF TEST PORT DRAIN

RPDA & PIPING STUBBED UP 12" INTO SPRINKLER ROOM BY SITE UTIL CONTR.

HVAC 529
Agriculture 526
Carpentry 522
Automotive 511
Welding 514
Automotive 511
Salon B 505
Salon A 504
Office 506
Toilet 503
Reception 502
Dispensary 507
Ag Shop Classroom 527
Storage 528
Carpentry Shop Classroom 523
Tools 524
Storage 525
Welding Shop Classroom 515
Tools 516
Storage 517
Automotive Classroom 512
Storage 513
Break 508
510
Corridor 501
Storage 530
Mech. / Elect. 531
Chiller
Custodian / Storage 521
Boys 520
Staff 519
Girls 518
Cosmetology Classroom 509
Pedestrian Walkway 500

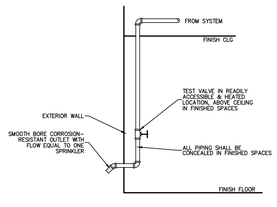
101.1 MAIN FLOOR SPRINKLER PLAN
SCALE: 1/8"=1'-0"

NORTH

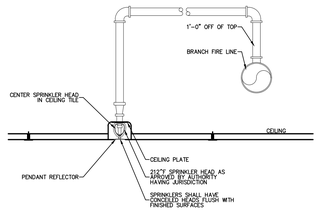


NOTE: REFERENCE SPECIFICATION SECTION 15060

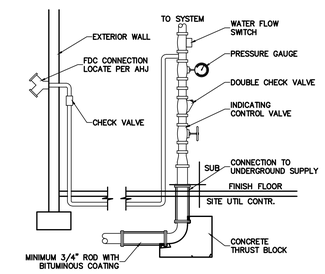
101.5 HANGER DETAILS
SCALE: none



101.4 SYSTEM TEST CONNECTION
SCALE: none



101.3 SPRINKLER HEAD DETAIL
SCALE: none



101.2 SPRINKLER SYSTEM RISER
SCALE: none

CLASSROOM DESIGN CRITERIA

SYSTEM TYPE:	WET
CLASSIFICATION:	LIGHT HAZARD: CLASSROOMS & OFFICES ORDINARY HAZARD GRP 2: SHOPS/LABS
DENSITY:	REF. SPECS. DESIGN CRITERIA
PROTECTION AREA:	27,255
MIN. FIRE FLOW PER NC FIRE CODE TABLE B105.1.2	1,000 gpm
PIPE SIZING:	HYD CALCS
REMOTE AREA:	1500 sf
HOSE:	250 gpm

FIRE FLOW DATA

MAIN SIZE:	PROPOSED 6"
ELEV:	36.00'
STATIC PRESS:	70 PSI
VOLUME:	1285.80 GPM
RESIDUAL PRESS:	39 PSI
LOCATION:	HYDRANT #1

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

NOTE:
FIRE FLOWS MUST MEET NC FIRE CODE APPENDIX B FOR TYPE IIB CONSTRUCTION AND B105.1.2 FOR REDUCED GRADE HOSE FLOW. CONTRACTOR IS RESPONSIBLE FOR ACCOMPLISHING FIRE FLOW PRIOR TO BID & PROVIDING COMMITMENT LETTER FROM WATER UTILITY WITH SHOP DRAWING SUBMITTAL TO ENGINEER & AHJ.

No.	Date	Revision
3	04/03/25	ADDENDUM # 3
2	03/20/25	ADDENDUM # 2
1	03/10/25	ADDENDUM # 1

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

NEW CTE BUILDING FOR
Bertie High School
716 US 13 North / NCDPS Unit 080 - School 312
Windsor / Bertie County / North Carolina

HITE ASSOCIATES, P.C. ARCHITECTURAL CORPORATION OF NORTH CAROLINA LICENSE NO. C-0418 REGISTERED GREENVILLE

ENGINEERING SOURCE of NC, P.A.
102-A2 Regency Blvd. Greenville, NC 27834
E-Mail Address: generalmail@engrsource.com
Voice (252) 439-0338 • Fax (252) 439-0482 • Firm #C-1873

ES Project No: ES240055

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 029 DAVID W. WILSON PEDEN 4/3/25

Project No. 22351
Date: March 2025
Drawing no. FS 101

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