

PLAN HATCHING	DESIGN CRITERIA
	- SYSTEM TYPE - PREACTION
	- HAZARD CLASSIFICATION - LIGHT
	- DESIGN DENSITY - 0.10 GPM/SQ.FT.
	- SYSTEM AREA OF OPERATION - 1500 SQ. FT.
	- MAX. COVERAGE PER SPRINKLER - 225 SQ. FT.

NOTE: SYSTEM AREA OF OPERATION SHALL BE INCREASED FOR SLOPED CEILING PER NFPA 13 11.2.3.2.4 AND FOR DRY PIPE SYSTEM PER NFPA 13 11.2.3.2.5, AS APPLICABLE.

GMK ASSOCIATES, INC.
 Design/Planning/Construction
 1201 Main Street, Suite 2100
 Columbia, S.C. 29201
 tel. 803-256-0000
 fax 803-255-7243

ALL RIGHTS RESERVED. THIS DRAWING AND THE DESIGN SHOWN THEREON ARE COPYRIGHTED AS PRESCRIBED BY THE LAWS OF THE UNITED STATES AND ARE THE PROPERTY OF GMK ASSOCIATES ARCHITECTURAL DESIGN. ANYONE DUPLICATING, REPRODUCING OR CAUSING TO BE REPRODUCED THE WHOLE OR PART OF THESE DRAWINGS OR THE DESIGN THEREON WITHOUT PERMISSION OF THE ARCHITECT WILL BE SUBJECT TO LEGAL ACTION.

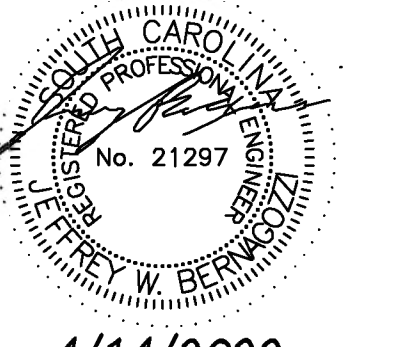
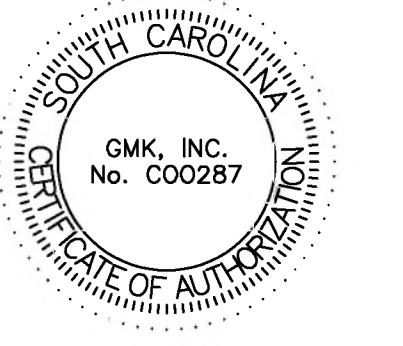
consultants



THE SOUTH CAROLINA DEPARTMENT OF ADMINISTRATION
 State Project #D50-6037-PD
 project name
COLUMBIA MILLS ROOF REPLACEMENT & ATRIUM ROOF/WINDOW REPLACEMENT

A/E project number
20058.01

seals/signature

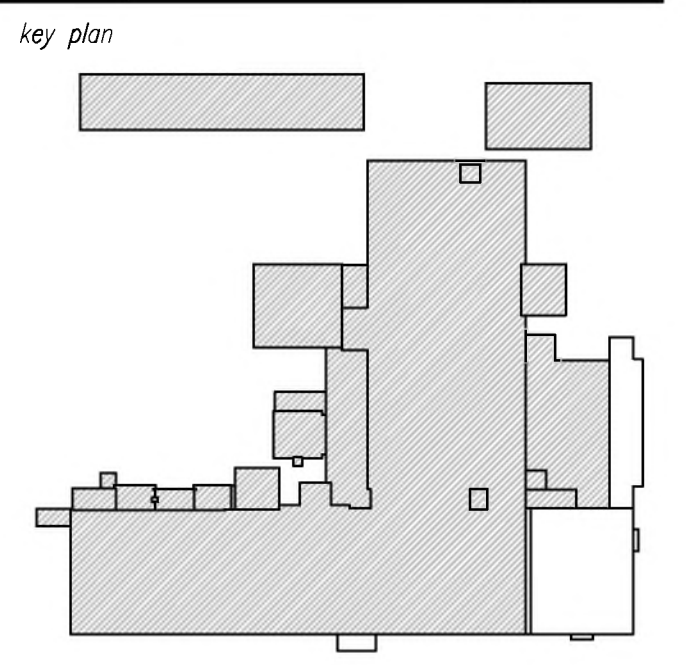


4/14/2022

issued for
CONSTRUCTION DOCUMENTS

date
APRIL 14, 2022

number	item	date



sheet title
FIRE PROTECTION ROOF PLAN

sheet number

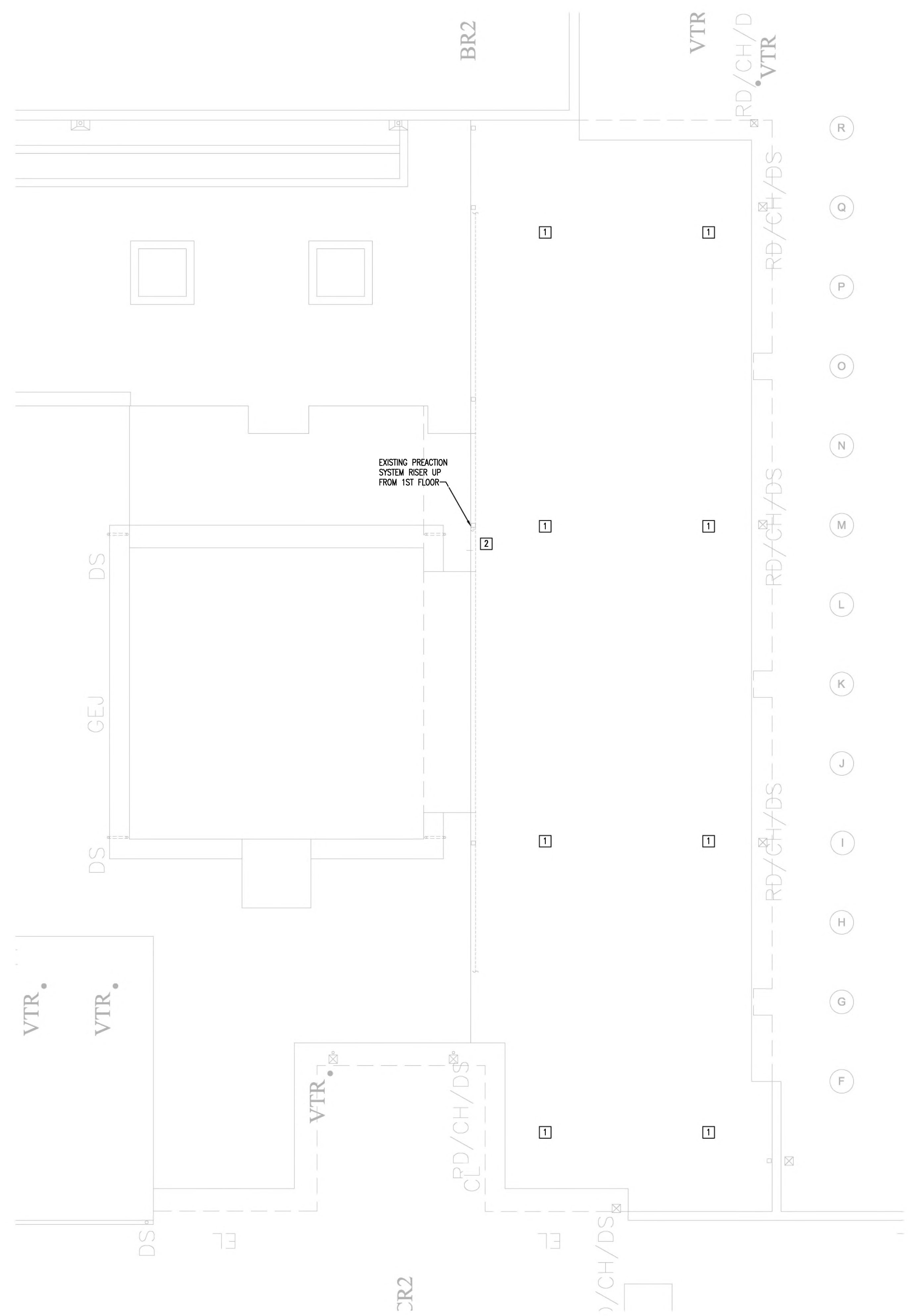
FP1.5

drawn by **JDK**
 checked by **JWB**

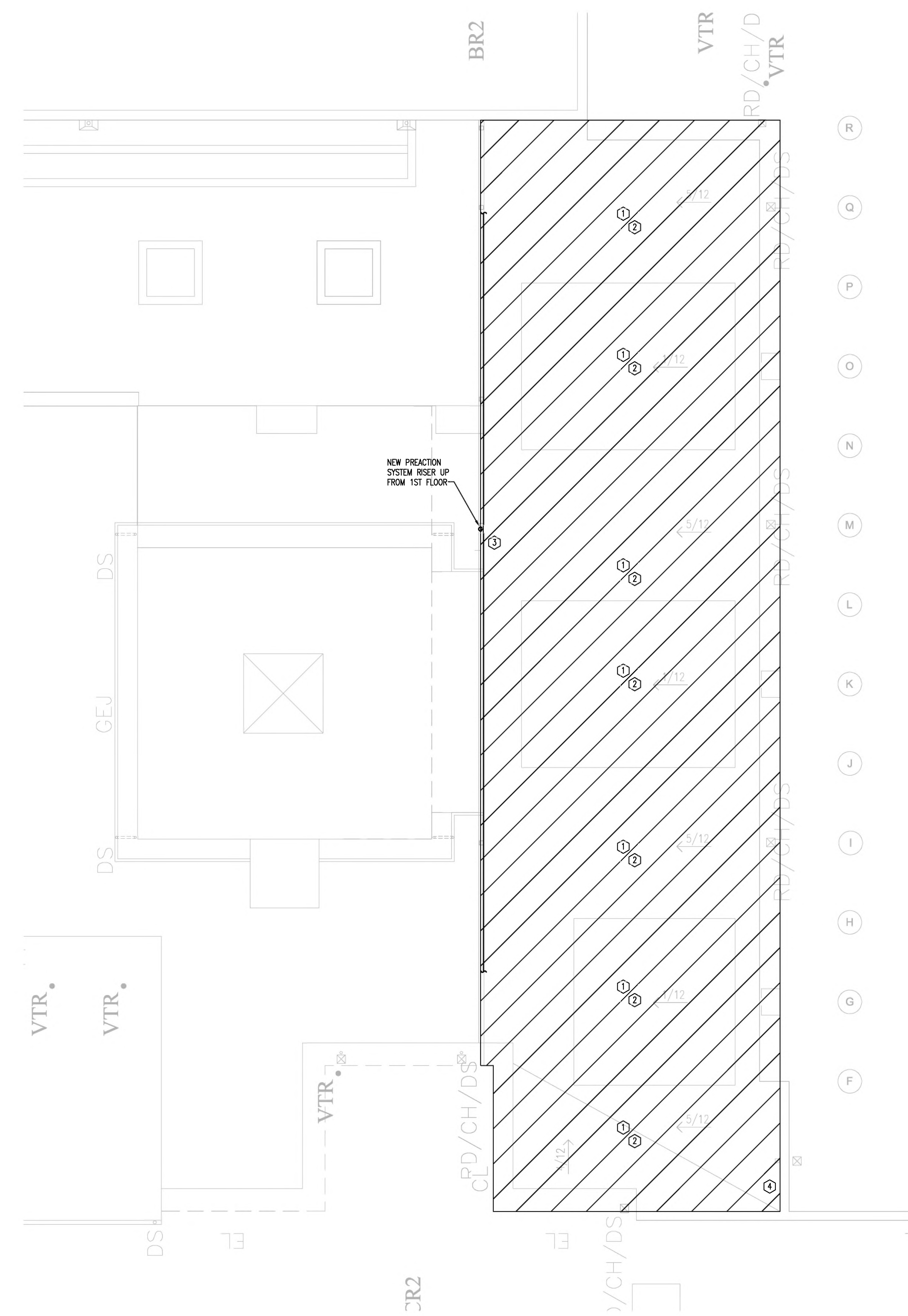
- DEMOLITION KEYNOTES:**
- DEMOLISH EXISTING PREACTION SYSTEM AT ATRIUM ROOF COMPLETE, INCLUDING ALL MAIN PIPING, LINE, PIPING, ARM-OVERS, DROPS, SPRINKLERS, SUPPORTS, HEAT DETECTORS, CONDUIT, AND WIRING BACK TO THE ZONE 4 PREACTION SYSTEM RISER AND PANEL.
 - DEMOLISH EXISTING RISER TO FIRST FLOOR MECHANICAL ROOM AND CAP AT CONNECTION TO THE EXISTING PREACTION SYSTEM RISER.

DEMOLITION AND RENOVATION PLAN LEGEND	
DEMO PIPING	
EXISTING PIPING	
NEW PIPING	
AREA OF DEMOLITION	
PIPING DOWN	c
PIPING UP	o
PIPING CONTINUES	s

- PROVIDE AND INSTALL LIGHT HAZARD SPRINKLER PROTECTION AT THE ATRIUM ROOF AS REQUIRED AND CONNECT TO THE NEW RISER. ALL SPRINKLERS SHALL BE INSTALLED AND POSITIONED UNDER THE NEW ROOF TO COMPLY WITH THE OBSTRUCTION AND SLOPED ROOF RULES IN ACCORDANCE WITH CHAPTER 8 OF NFPA 13. SPRINKLERS SHALL BE INSTALLED NO MORE THAN 12" BELOW THE NEW ROOF DECK.
- PROVIDE AND INSTALL FIXED TEMPERATURE HEAT DETECTORS FOR PREACTION SYSTEM ACTIVATION WITH OPERATION TEMPERATURES LESS THAN THAT OF THE SPRINKLERS INSTALLED IN THE SAME AREA. DETECTORS SHALL BE LOCATED TO NOT EXCEED THERE LISTED SPACING. SELECT HEAT DETECTORS THAT ARE COMPATIBLE WITH THE EXISTING PREACTION SYSTEM COMPONENTS. COORDINATE SYSTEM INTERCONNECTION WITH FIRE ALARM CONTRACTOR.
- EXTEND NEW RISER UP FROM CONNECTION TO EXISTING PREACTION SYSTEM RISER ON FIRST FLOOR.
- PROVIDE PREACTION SYSTEM TEST CONNECTION AS REQUIRED PER NFPA 13 8.17.4.3. COORDINATE ROUTING TO EXTERIOR WITH OWNER AND GC.



1 FIRE PROTECTION ROOF DEMOLITION PLAN
 SCALE: 1/8" = 1'-0"



2 FIRE PROTECTION ROOF RENOVATION PLAN
 SCALE: 1/8" = 1'-0"