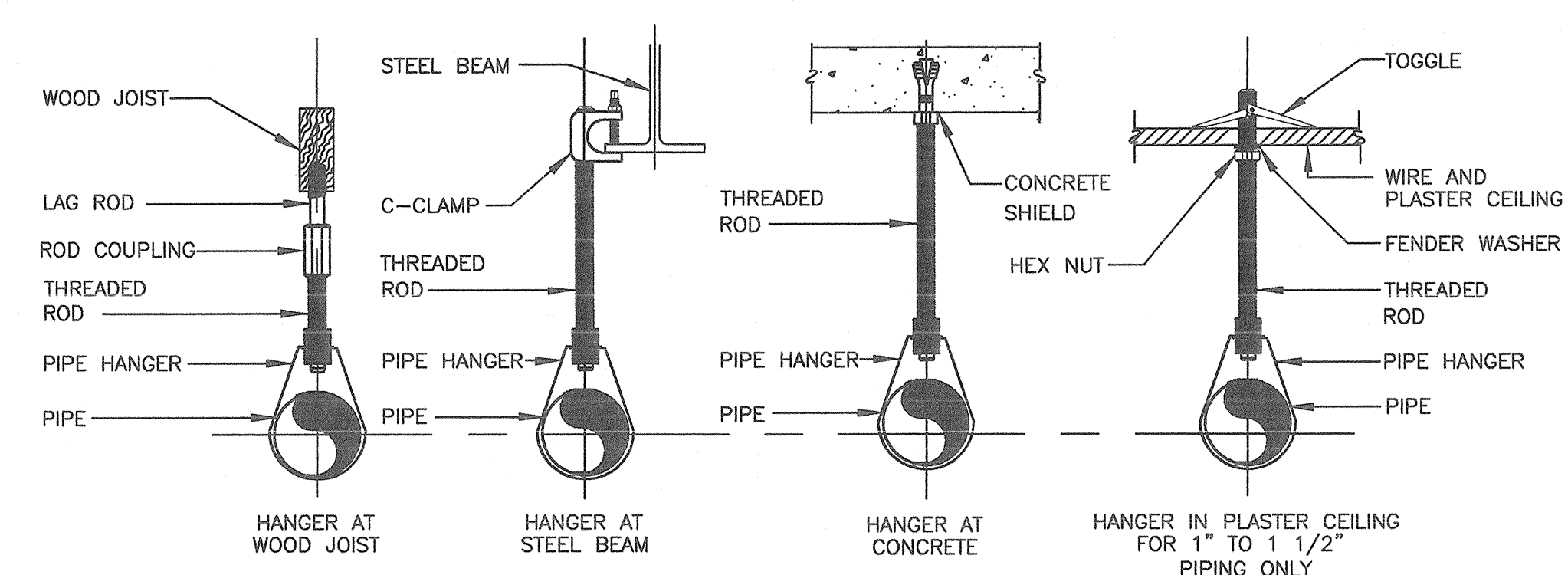


SPRINKLER SPECIFICATION

- ADHERE TO THE BASE BUILDING SPECIFICATIONS AND DRAWINGS.
- EXAMINE THE ARCHITECTURAL DRAWINGS AND THE DRAWINGS OF ALL OTHER TRADES AND FIELD VERIFY THE LOCATION OF ALL LIGHTING FIXTURES, DIFFUSERS, EXISTING SPRINKLER HEADS AND OTHER EQUIPMENT THAT AFFECTS THIS WORK.
- VISIT AND CAREFULLY EXAMINE THE EXISTING SPACE SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.
- WITHIN THE AREA OF WORK UNDER THIS CONTRACT, ALL 3/4" SPRINKLER PIPES, IF EXISTING, TO BE REMOVED AND REPLACED BY 1" PIPES. BRANCH PIPING SIZES TO BE ADJUSTED.
- BASE ALL LABOR PRICING ON REGULAR TIME (NON-PREMIUM TIME). HOWEVER, ALL CONNECTION SCHEDULING MUST BE APPROVED BY THE BUILDING'S MANAGEMENT PRIOR TO INTERRUPTION OF ANY BUILDING'S SERVICES. SUBMIT ADDITIONAL COST FOR EVALUATION TO MAKE EACH NEW CONNECTION ON PREMIUM TIME.
- PRIOR TO INSTALLING OR SUBMITTING FOR APPROVAL ANY PORTION OF THIS WORK, COORDINATE THIS WORK WITH ALL OTHER TRADES AND AFFIX INDICATION OF THIS COORDINATION TO EACH SHOP DRAWING SUBMITTED FOR APPROVAL.
- REMOVE AND RELOCATE EXISTING SPRINKLER HEADS AS INDICATED ON SPRINKLER PLANS. EXTEND EXISTING PIPING TO NEW HEAD LOCATION.
- FOR EXACT LOCATION OF SPRINKLER HEADS, REFER TO ARCHITECT'S REFLECTED CEILING PLANS.
- SPRINKLER HEADS INSTALLED IN HUNG CEILING WILL BE POSITIONED AS FOLLOWS:
 - LOCATED WITHIN A TOLERANCE OF 1/2 INCH OF THE CENTERLINE OF THE TILES.
- INSTALL SPRINKLER HEADS TIGHT TO BOTTOM OF HUNG CEILING, WITH CARE THAT THE FINISH IS NOT DAMAGED.
- CUT AND CONNECT NEW SPRINKLER HEADS TO EXISTING PIPING. ADJUST SPRINKLER PIPE SIZES WHERE REQUIRED.
- CONFORM TO THE FOLLOWING APPLICABLE CODE WHICH COVERS THE REQUIREMENTS FOR THIS PROJECTS LOCATION:
 - BOCA BASIC BUILDING CODE AND CONFORM TO THE REQUIREMENTS OF THE BUILDING STANDARDS, AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
- ALL NEW SPRINKLER BRANCH LINES TO BE 1" UNLESS OTHERWISE NOTED.
- ALL NEW SPRINKLER BRANCH LINES EXCEEDING 6 FEET IN LENGTH TO BE PROVIDED WITH HANGERS.
- ALL PIPING TO BE SCHEDULE No. 40 BLACK STEEL.
- ALL FITTINGS TO BE CAST MALLEABLE IRON THREADED OR VICTAULIC GROVED.
- ONLY SHOULDER NIPPLES WILL BE USED. CLOSE NIPPLES WILL NOT BE ACCEPTABLE. ADJUST SPRINKLER HEAD TO THE NEW CEILING HEIGHT.
- WHEN CONCEALED TYPE SPRINKLER HEADS ARE USED, THE COVER PLATES WILL BE FLUSH WITH THE CEILING PLANE TO LIMIT SHADOW EFFECT. TOLERANCE GREATER THAN ± 1/8 INCH ARE UNACCEPTABLE.
- USE LIGHT HAZARD SIZING AND SPACING.
- ARRANGE THE PERMANENT INSTALLATION OF PIPING SO THAT ALL OR ANY PART OF THE WORK CAN BE COMPLETELY DRAINED. PIPING TO BE PITCHED SO AS TO DRAIN THE MAIN DRAIN OR AUXILIARY DRAIN.
- WHEN THE INSTALLATION OF A FLOOR HAS BEEN COMPLETED, TEST IT INDEPENDENTLY OF THE REST OF THE BUILDING.
- THE SPRINKLER SYSTEM WILL BE HYDROSTATICALLY TESTED UNDER A MINIMUM PRESSURE OF 200 PSI FOR TWO HOURS.
- DURING THE TEST PERIOD, THE SPRINKLER SYSTEM WILL NOT BE CONNECTED TO THE DOMESTIC WATER SYSTEM OF THE BUILDING.
- REPLACE WORK FOUND DEFECTIVE OR REPAIR IF SO DIRECTED. AFTER REPLACEMENT OR REPAIR, TEST WORK AGAIN AS SPECIFIED. REPEAT UNTIL SATISFACTORY.
- AFTER TEST IS COMPLETED, FLUSH ALL PIPING AT THE FLOW RATE DESIGNATED IN N.F.P.A. No. 13. FLUSH PIPING USING SUFFICIENT WATER TO PRODUCE A MINIMUM WATER VELOCITY OF 2.5 FEET PER SECOND THROUGH PIPING BEING FLUSHED. CONTINUE UNTIL DISCHARGE WATER SHOWS NO DISCOLORATION. DRAIN AT LOW POINTS, AFTER FLUSHING AND CLEANING, PREPARE SYSTEM FOR SERVICE BY IMMEDIATELY FILLING PIPING.
- SUBMIT COMPLETE HYDRAULIC CALCULATIONS FOR EACH SYSTEM ON ALL FLOORS.
- TYPES OF SPRINKLER HEADS; SEE SPRINKLER APPLICATION CHART THIS DRAWING.



ROD SCHEDULE								
PIPE SIZE	ROD SIZE	SPACING	PIPE SIZE	ROD SIZE	SPACING	PIPE SIZE	ROD SIZE	SPACING
1/2"	3/8"	5'-8"	1 1/2"	3/8"	8'-10"	4"	1/2"	12'-15'
3/4"	3/8"	5'-8"	2"	3/8"	10'-12'	5"	1/2"	12'-15'
1"	3/8"	5'-8"	2 1/2"	3/8"	10'-12'	6"	1/2"	12'-15'
1 1/4"	3/8"	6'-10"	3"	3/8"	10'-12'			

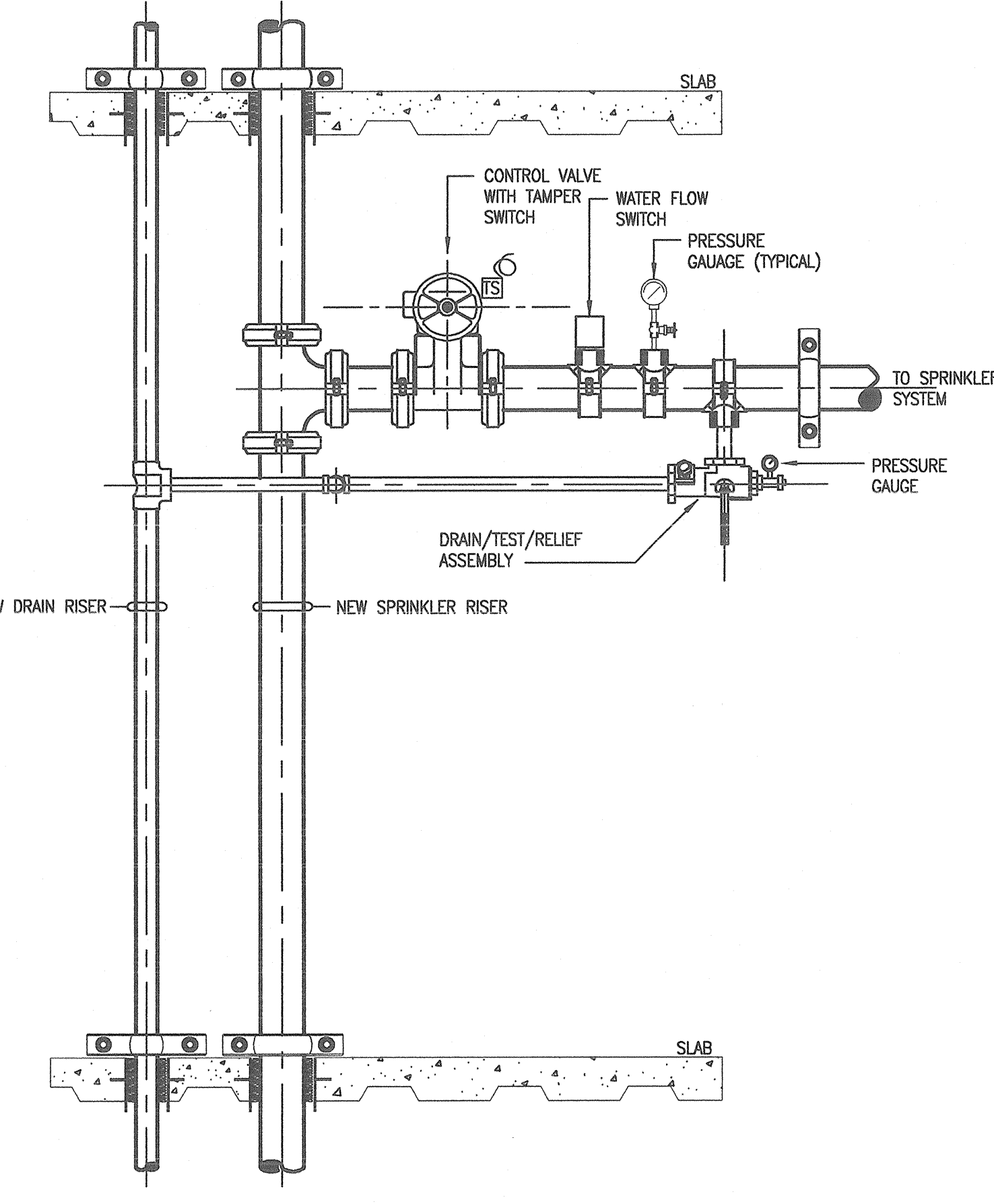
HANGER DETAIL
DATE: NONE

SPRINKLER SYSTEM CRITERIA

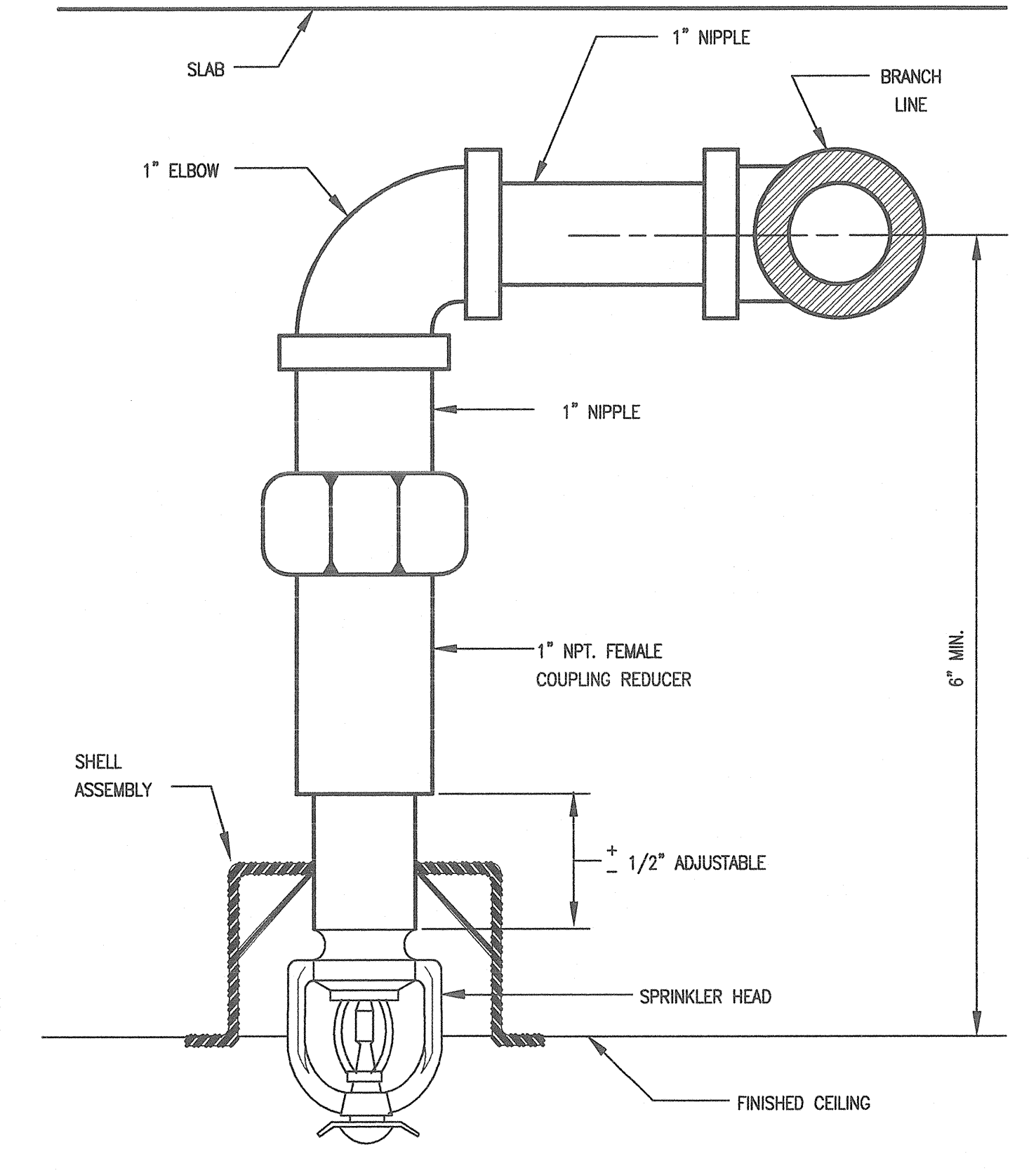
- THE DENSITY, AREA OF SPRINKLER OPERATION AND WATER SUPPLY REQUIREMENTS SHALL BE IN ACCORDANCE WITH TABLE 2.2.1B OF NFPA, VOLUME 13 FOR HYDRAULICALLY DESIGNED SPRINKLER SYSTEMS.
- DESIGN CRITERIA:
 - LIGHT HAZARD OCCUPANCIES: 0.10 GPM PER SQUARE FOOT OVER THE HYDRAULICALLY MOST REMOTE 1,500 SQUARE FEET, WITH A MAXIMUM SPRINKLER SPACING OF 225 SQUARE FEET.
 - OFFICE AREAS.
 - CLASSROOMS AND BATHROOMS
 - CORRIDORS AND PUBLIC CIRCULATION SPACES.
 - MEETING ROOMS, CONFERENCE ROOMS, E.T.C.
 - ORDINARY HAZARD GROUP 1 AREAS: 0.16 GPM PER SQUARE FOOT OVER THE HYDRAULICALLY MOST REMOTE 1,500 SQUARE FEET, WITH A MAXIMUM SPRINKLER SPACING OF 130 SQUARE FEET.
 - MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS.
 - SHOPS.
 - SERVICE ELEVATOR LOBBIES.
 - MAIN LOBBY.
 - LOUNGE SEATING AREAS.
 - ATRIUM CEILING.

SPRINKLER APPLICATION CHART

MANUF. MODEL No.	SYMBOL	TEMPERATURE RATING	FINISH	STYLE	K - FACTOR	RESP.	REMARKS (LOCATIONS)
VIKING MICROMATIC	●	165F	CHROME	SEM-RECESSED	4.0	STANDARD	BELOW SUSPENDED PANELS/HUNG CEILING
VIKING MODEL "M"	○	165F	CHROME	UPRIGHT/PENDENT	4.0	STANDARD	OPEN CEILING
VIKING MICROMATIC	◀	175F	CHROME		5.62	STANDARD	ATRIUMS



SPRINKLER SYSTEM
FLOOR CONTROL VALVE ASSEMBLY

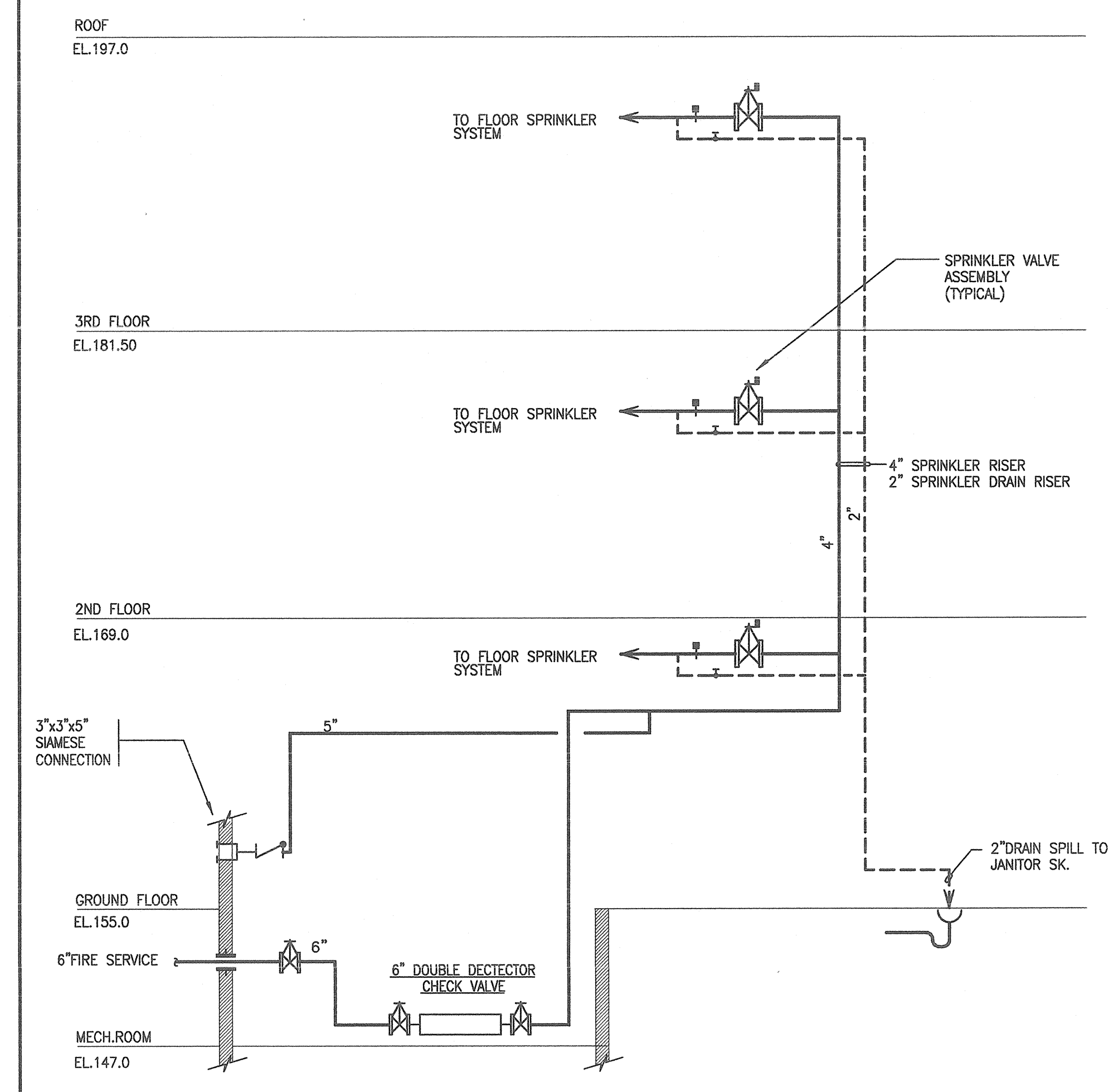


RECESSED SPRINKLER HEAD
BRANCHLINE CONNECTION

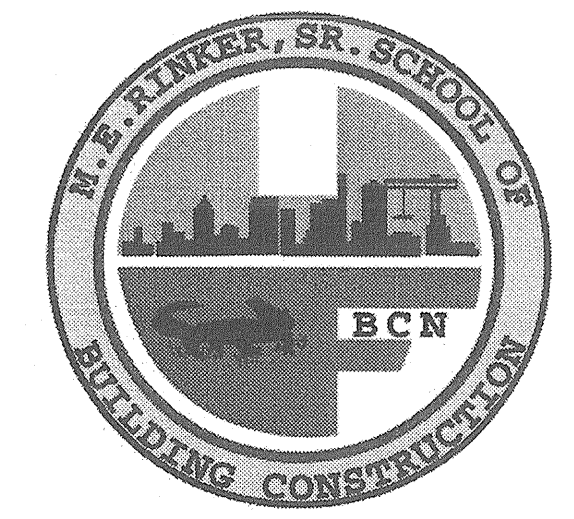
FIRE STANDPIPE AND SPRINKLER SYMBOL LIST	
	NEW SEMI-RECESSED SPRINKLER HEAD
	NEW UPRIGHT SPRINKLER HEAD ABOVE SUSPENDED CEILING
	SIDEWALL SPRINKLER HEADS
	NEW SPRINKLER PIPING
	NEW WATERFLOW SWITCH
	NEW CHECK VALVE WITH ABD
	NEW SPRINKLER FLOOR CONTROL VALVE ASSEMBLY
	SPRINKLER RISER DESIGNATION
	SHUT-OFF VALVE WITH TAMPER SWITCH
	HYDRAULIC CALCULATION NODE No. 0
T.S.	TAMPER SWITCH
W.F.D.	WATER FLOW DETECTOR

DRAWING LIST

Sheet No.	Description
F-1	SYMBOLS, NOTES & DETAILS
F-2	MECHANICAL ROOM LEVEL & FIRST FLOOR
F-3	SECOND & THIRD FLOOR PLANS



SPRINKLER RISER DIAGRAM



M.E. RINKER, Sr. HALL
SCHOOL OF BUILDING CONSTRUCTION

UNIVERSITY OF FLORIDA-GAINESVILLE
PROJECT NO. BR-191

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DRAWING NAME
FIRE PROTECTION SYMBOLS, NOTES, & DETAILS

DATE 11/21/01
SCALE NONE
DRAWN BY/DESIGNED BY PG / MS

