



**ROCKFORD BOARD OF EDUCATION
INVITATION FOR BID ON SUPPLIES, MATERIALS, EQUIPMENT OR SERVICES
FOR SCHOOL DISTRICT NO. 205
ROCKFORD, ILLINOIS**

IFB No. **23-17 Administration Building 2nd Floor Renovation**

DATE: **August 25, 2022**

RE: **ADDENDUM NO. 2**

To All Bidders:

Included are modifications, clarifications and/or corrections for the Project Manual and are hereby made a part of the contract documents. Please attach this addendum to the Project Manual(s) in your possession. Please note the receipt of this addendum on the bid form. Bidders shall review changes to all portions of this work as changes to one portion may affect the work of another.

If you plan to hand deliver your IFB submission on the due date, please note you must check in on the 1st floor prior to coming to the bid opening. Please allow time for this as late submission will not be accepted.

Refer all questions relative to the business aspect, Instructions to Bidders, Special Conditions, and questions concerning the technical aspect of the documents to the Director of Purchasing by email at purchasingdeptstaff@rps205.com.

ROCKFORD BOARD OF EDUCATION

By: Dane Youngblood
Director of Purchasing

LARSON & DARBY GROUP

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815/484-0739

ARCHITECTS-ENGINEERS-INTERIORS

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TO: ALL BIDDERS

RE: ADDENDUM #2

Changes to Bidding Documents Dated June 8, 2022

PROJECT: RPS 205 ADMINISTRATION BUILDING
2ND FLOOR RENOVATION
ROCKFORD, ILLINOIS

L&D PROJECT NO.: 31225

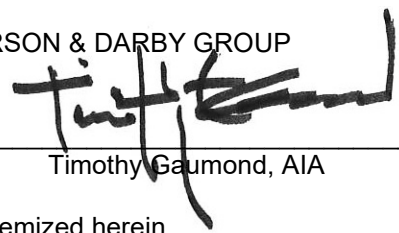
DATE: August 25, 2022

Please attach this Addendum to the Project Manual and Drawings for the referenced project. Take the changes to the Project Manual and Drawings into consideration in preparing your Bid.

Bidders shall make note in writing on Bid Form that this Addendum has been taken into consideration. Failure to do so may be sufficient cause to reject the Bid.

LARSON & DARBY GROUP

By


Timothy Gaumont, AIA

This Addendum consists of 2 pages, plus materials itemized herein.

I. GENERAL:

- A. A window may be removed to allow the removal of demolished material and the delivery of new work material. A temporary chute may be erected for removal of materials. The window shall be reinstalled, and the window and adjacent areas affected by this work shall be brought back to their existing state. Any barricades, street permits, work and all associated costs shall be the contractor's responsibility.

II. QUESTIONS:

- A. *According to the specs it says we need to calculate the whole building? This is an existing system with fire pump, is that required? I plan on us calculating the 2nd floor only, because it is around 170 heads to relocate. Please advise if no calcs are needed. We will only supply a head layout with hydra calcs, and not a complete working drawing for all the existing pipe that is up there already. Beings this is an existing system and we are not planning on relocating any mains or branch lines this shouldn't be a problem.* **CS2 Response: Only the area indicated on the second floor needs to be hydraulically calculated. Sprinkler mains are to remain in current location. Existing sprinkler heads, arm-over piping, and misc. branch piping will be removed in area of work as indicated on the drawings. Drawing FP1.1, General Notes, Drawing Notes and Design Criteria have been modified to address the questions above. Drawing FP2.0, Fire Protection – General Notes have been modified to address the questions above.**
- B. *Are the floors zoned off? If so that will help with draining the system.* **Yes, there are isolation valves in the stairwells at each floor.**

- C. *Does the modular office furniture shown in open office area 233, get any tele/data cables/drops? The panels have a cavity for data. The low voltage contractor shall pull data wire in the data cavity and terminate at 6 locations (one at each cubicle). The low voltage contractor shall provide the data cover plates for each termination. The electrical contractor shall connect building power to the furniture electrical whips at two locations.*
- D. *The print says that the fire alarm Devices "AV" are horn strobes. See item G. response below.*
- E. *The existing building has speaker strobes throughout. Is this a change the engineer/ Architect is making or are the prints not Correct? The intent is for all new fire alarm audio/visual (AV) devices to be speaker strobes compatible with the existing system.*
- F. *Please advise if the plumbing engineer has verified if the spec'd fixtures work with the existing rough-ins? If not, please advise on how we account for additional work that may need to be done to modify the existing rough-ins. The tag notes #1 & #2 on sheet P1.0 require modify existing plumbing as required to accommodate new fixtures, notes the patching of walls and finishes shall be included in the work and refers to the General Remodeling Notes. General Remodeling Note #10 , sheet P2.0, includes in the scope of work all cutting and patching, etc, associated with the plumbing work. All required modifications of existing plumbing shall be included in the work along with all removal and patching of existing conditions.*
- G. *Additionally, The wall behind the men's ADA toilet will have to be opened up to change the flush valve handle location to meet code. Wall at ADA toilets shall be opened and patched as required to accommodate new work. See tag note #1 on sheet P1.0 and General Remodeling Note #10 on sheet P2.0.*
- H. *Steel erectors are recommending that the WT6x15 beam, at the movable partition framing, be segmented into 8' length bolted connections. There isn't a cost effective method to deliver a 28' continuous length beam to the 2nd floor. The WT6x15 may be segmented with bolted connections. Any splice connections must at a support point.*

III. ADDITIONS OR CHANGES TO THE DRAWINGS

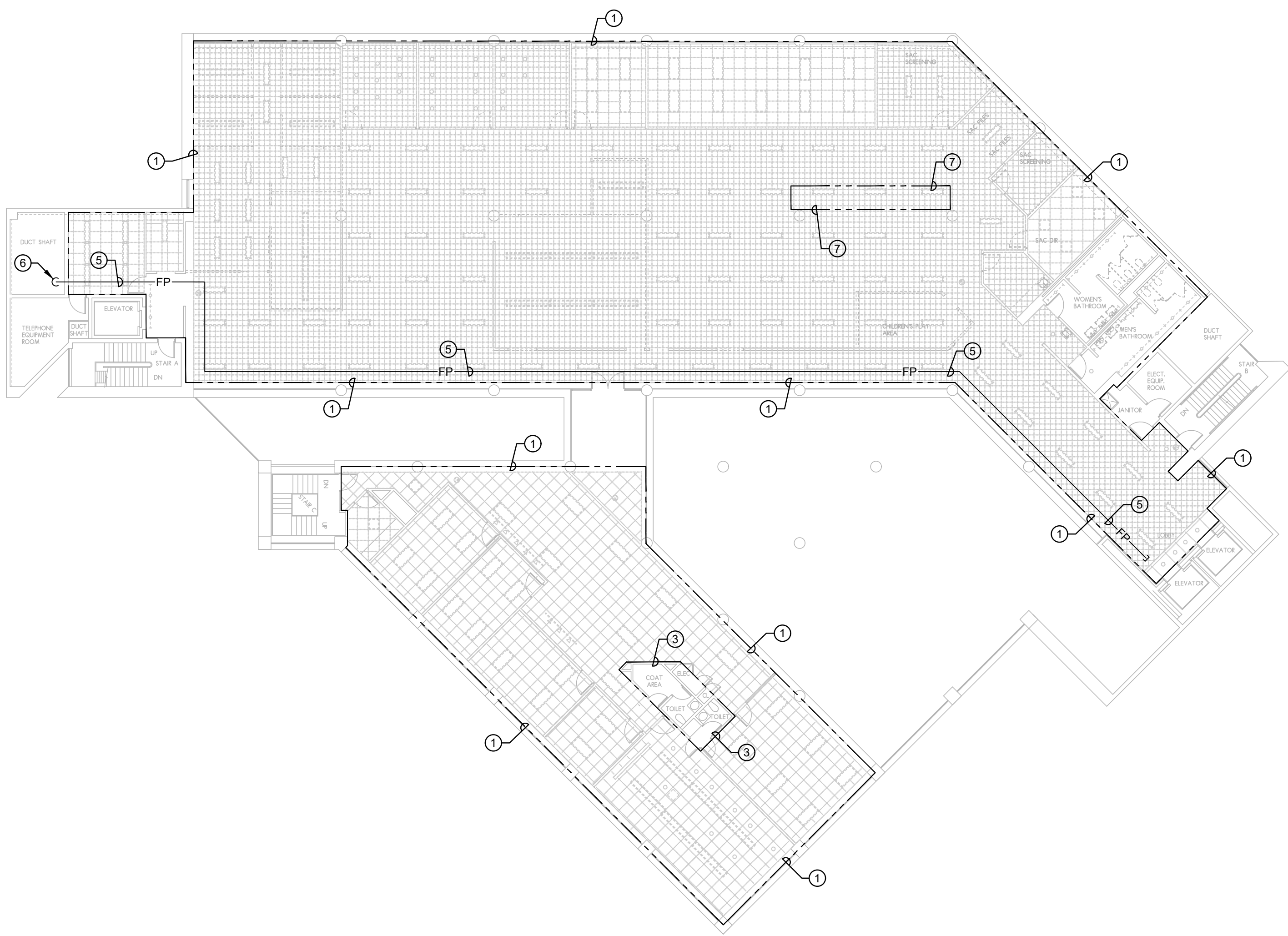
- A. Drawing FP1.1 Revised Drawing: General Notes, Drawing Notes and Design Criteria have been modified.
- B. Drawing FP2.0, Revised Notes: General Notes have been modified.

REISSUED DRAWINGS: The following revised Drawings, which replace previous issues of the Drawings, are issued herewith:

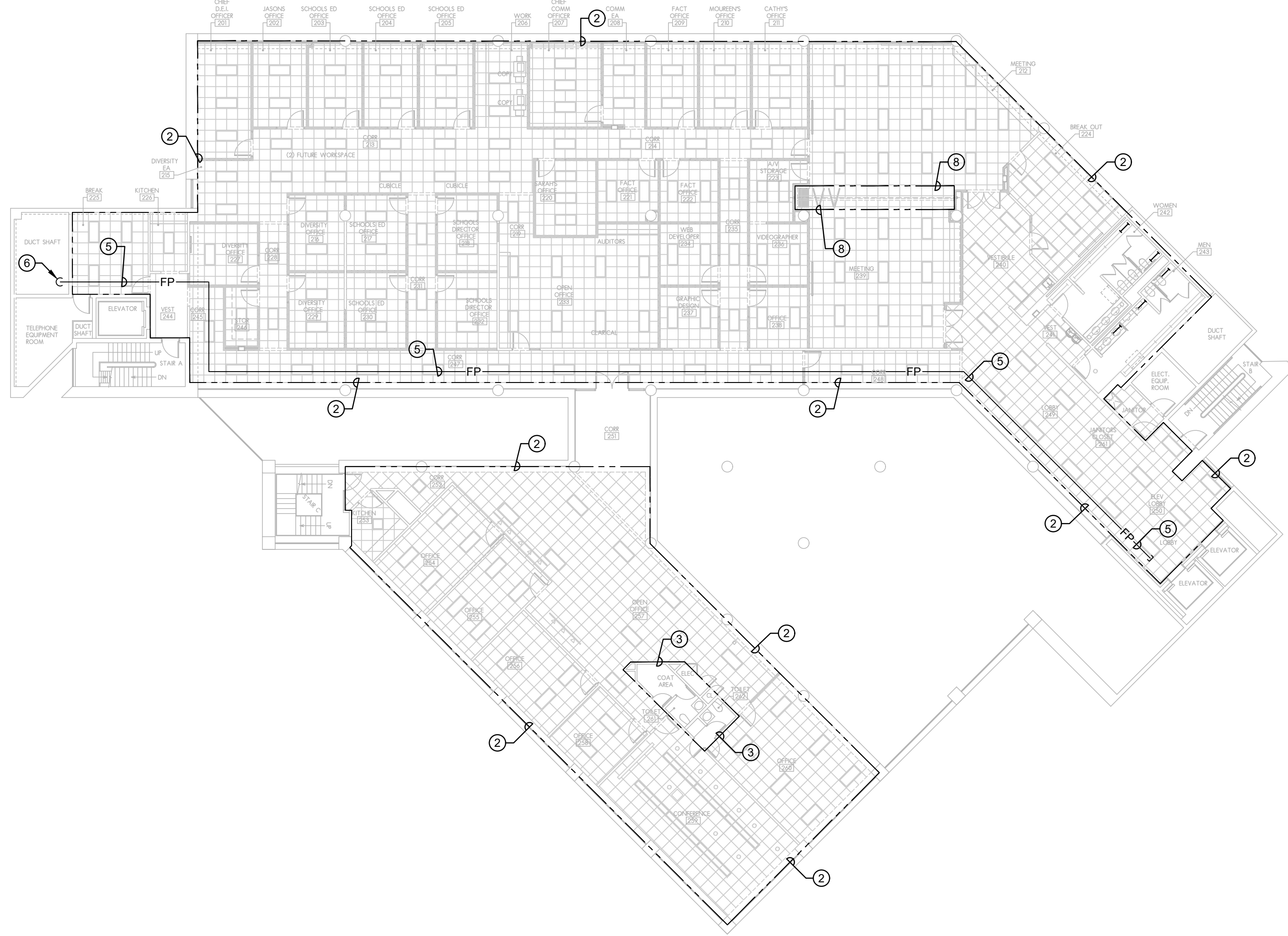
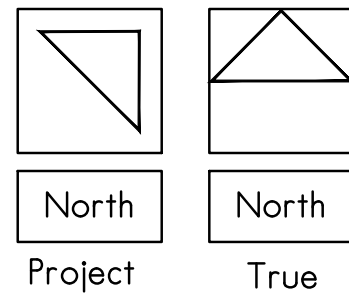
FP1.1, and FP2.0.

END OF ADDENDUM #2

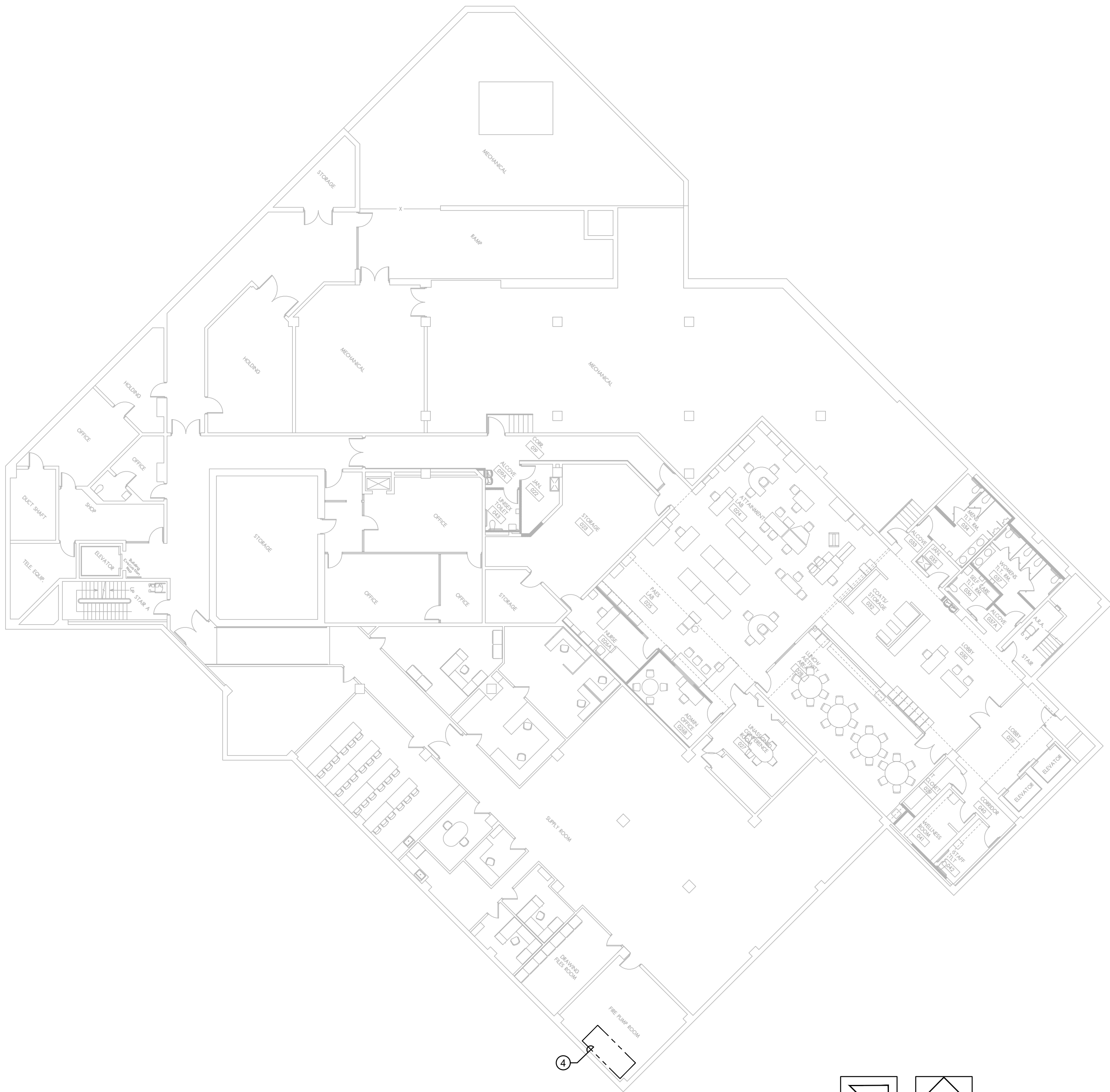
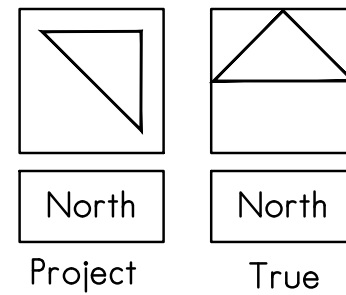
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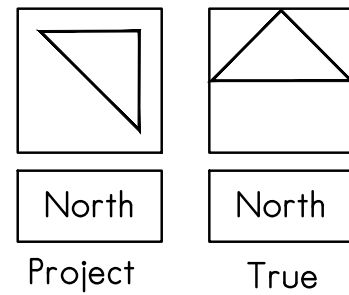
SECOND FLOOR - FIRE PROTECTION DEOM PLAN
SCALE: 1/16" = 1'-0"



SECOND FLOOR - FIRE PROTECTION PLAN
SCALE: 1/16" = 1'-0"



BASEMENT - FIRE PROTECTION PLAN
SCALE: 1/16" = 1'-0"



GENERAL NOTES:

THE EXISTING SPRINKLER SYSTEM TO BE MODIFIED IN THE AREAS AS INDICATED ON THE PLANS. CONTRACTOR SHALL FIELD VERIFY EXISTING BUILDING CONDITIONS.

THE PLAN DRAWINGS ARE CONCEPTUAL AND REPRESENT MINIMUM REQUIREMENTS AND ARE NOT INTENDED TO LIMIT THE CONTRACTOR'S RESPONSIBILITY UNDER HIS CONTRACT. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ONGOING OPERATIONS, FIELD SURVEY, AND THE CHECKING OF PIPE ROUTING TO AVOID POTENTIAL INTERFERENCES. PRIOR TO PIPE INSTALLATION AND/OR PIPE FABRICATION, ROUTING OF NEW PIPING AS SHOWN ON DRAWINGS, DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING THAT MAY BE ENCOUNTERED. CONTRACTOR SHALL COORDINATE NEW PIPE ROUTING, NEW SPRINKLER HEAD LOCATIONS, ETC. WITH THE NEW WORK OF OTHER TRADES AND NEW STRUCTURE.

CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS TO FAMILIARIZE THEMSELVES WITH THE AREAS OF WORK WITHIN THE BUILDING AND THE EXTENT OF WORK.

CONTRACTOR TO PROVIDE PROPER SPRINKLER COVERAGE PER NFPA 13 TO THE OUTLINED AREAS INDICATED ON THE DRAWINGS. COORDINATE SPRINKLER HEAD LOCATIONS WITH ARCHITECTURAL DRAWINGS, LIGHTING PLANS AND ALL OTHER TRADES.

CONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE TEMPERATURE RATED SPRINKLER HEADS PER NFPA BASED ON THE ROOM USE AND TYPES OF HEAT GENERATING EQUIPMENT WITHIN THE ROOM. REFER TO ARCHITECTURAL DRAWINGS AND OTHER TRADE DRAWINGS FOR ADDITIONAL INFORMATION ON ROOM USE AND HEAT GENERATING EQUIPMENT.

SPRINKLER PIPING SHALL NOT BE INSTALLED DIRECTLY OVER ANY ELECTRICAL EQUIPMENT PANELS. CONTRACTOR TO COORDINATE ROUTING WITH ALL EXISTING AND NEW ELECTRICAL PANELS.

ALL SPRINKLER HEADS IN MECHANICAL ROOMS, STORAGE ROOMS OR IN AREAS SUBJECTED TO MECHANICAL INJURY SHALL HAVE AN APPROVED HEAD GUARD.

COORDINATE SPRINKLER HEAD PLACEMENT IN CEILING WITH MECHANICAL SUPPLY DIFFUSERS, RADIANT CEILING PANELS, CABINET UNIT HEATERS OR ANY CEILING MOUNTED HEAT GENERATING EQUIPMENT. SPRINKLER HEADS SHALL NOT BE PLACED DIRECTLY ADJACENT TO THESE DEVICES AND HAVE THE REQUIRED SEPARATION TO PREVENT A FALSE SPRINKLER HEAD DISCHARGE.

SPRINKLER CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING INCOMING WATER SERVICE, SIZE OF FIRE PROTECTION SERVICE, ZONING OF EXISTING SERVICE, WATER PRESSURE, EXISTING FIRE PUMP CAPACITY, ETC.

REFER TO ARCHITECTURAL DRAWINGS FOR CEILING ELEVATIONS, LIGHTING LAYOUTS, ETC. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL CEILING MOUNTED DEVICES SUCH AS LIGHTS, SPEAKER, DIFFUSERS, ETC. COORDINATE NEW SPRINKLER HEAD LOCATIONS WITH OTHER TRADES.

DESIGN CRITERIA:

THESE DRAWINGS ARE FOR REFERENCE ONLY AND REPRESENTS A GENERAL SCHEMATIC DESIGN INTENT. CONTRACTOR SHALL PROVIDE A HYDRAULICALLY CALCULATED AND OPERATING SPRINKLER SYSTEM TO THE OUTLINED AREA INDICATED. SPRINKLER INSTALLATION SHALL COMPLY WITH INTERNATIONAL BUILDING CODE 2015 EDITION, INTERNATIONAL FIRE CODE 2015 EDITION AND NFPA 13 2013 EDITION.

LIGHT HAZARD
SPRINKLERS IN AREAS INCLUDING BUT NOT LIMITED TO OFFICE AREAS, CORRIDORS, TOILET ROOMS, CONFERENCE ROOMS, LOBBY, LUNCH ROOMS, BREAK ROOMS, ETC. TO BE SPACED FOR LIGHT HAZARD OCCUPANCIES.

ORDINARY HAZARD GROUP 1
SPRINKLERS IN AREAS INCLUDING BUT NOT LIMITED TO MECHANICAL AREAS, STORAGE ROOMS, JANITORS CLOSET, ETC. TO BE SPACED FOR ORDINARY HAZARD GROUP 1 OCCUPANCIES.

DRAWING NOTES:

- WITHIN OUTLINED AREA REMOVE EXISTING CHROME PLATED SEMI-RECESSED SPRINKLER HEADS, SPRINKLER HEAD ESCUTCHEONS, ARM-OVER PIPING, HANGERS, ETC. REMOVE ARM-OVER PIPING BACK TO NEAREST EXISTING BRANCH PIPING FOR NEW CONNECTION. CONTRACTOR TO FIELD VERIFY EXISTING SPRINKLER HEAD LOCATIONS, EXISTING PIPE ROUTING, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON THE EXTENT OF DEMOLITION WORK THAT WILL AFFECT THIS TRADES WORK.
- WITHIN OUTLINED AREA PROVIDE NEW SPRINKLER HEADS AND NEW ARM-OVER PIPING. NEW SPRINKLER HEADS SHALL BE WHITE SEMI-RECESSED PENDENT SPRINKLERS WITH WHITE ESCUTCHEON PLATE WITHIN LAY-IN ACOUSTICAL CEILINGS OR GYPSUM BOARD CEILINGS. NEW ARM-OVER PIPING OR NEW RETURN BEND PIPING SHALL BE ROUTED BACK TO EXISTING BRANCH PIPING FOR NEW CONNECTION TO EXISTING LOCATION ON EXISTING BRANCH PIPING. IF REQUIRED MAKE NEW CONNECTION TO ADEQUATELY SIZED BRANCH PIPING OR MAIN PIPING. SPRINKLER HEADS SHALL BE INSTALLED TO PROVIDE PROPER COVERAGE PER NFPA 13. CONTRACTOR TO PROVIDE APPROPRIATE TEMPERATURE RATED SPRINKLER HEADS PER NFPA BASED ON ROOM USE AND TYPE OF HEAT GENERATING EQUIPMENT. COORDINATE SPRINKLER HEAD LOCATIONS WITH CEILING MOUNTED DEVICES SUCH AS LIGHTS, SPEAKERS, FIRE ALARM, DIFFUSERS/REGISTERS, ETC. SPRINKLER HEADS SHALL BE INSTALLED UNDER ALL DUCTWORK OVER 48" IN WIDTH. REFER TO OTHER TRADES DRAWINGS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- NO WORK WITHIN THIS AREA.
- APPROXIMATE LOCATION OF EXISTING INCOMING WATER SERVICE, FIRE PROTECTION SERVICE, EXISTING FIRE PUMP, EXISTING SPRINKLER RISER, ETC. CONTRACTOR TO FIELD VERIFY HOW EXISTING BUILDING IS ZONED, LOCATION OF EXISTING ZONE VALVES, ETC. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.
- EXISTING 4" SPRINKLER MAIN PIPING TO REMAIN. CONTRACTOR TO FIELD VERIFY EXISTING PIPING LOCATION, SIZE AND ELEVATION ABOVE FINISHED FLOOR.
- EXISTING 4" SPRINKLER PIPING DOWN IN DUCT SHAFT TO BASEMENT TO REMAIN.
- WITHIN OUTLINED AREA REMOVE EXISTING 2 1/2" BRANCH PIPING TO ACCOMMODATE THE INSTALLATION OF NEW STRUCTURAL STEEL FOR FOLDING PARTITION. NEW CONNECTION TO BE MADE TO EXISTING SPRINKLER BRANCH PIPING JUST OUTSIDE OF OUTLINED AREA. CONTRACTOR TO FIELD VERIFY EXISTING PIPE LOCATION AND SIZES.
- WITHIN OUTLINED AREA COORDINATE NEW SPRINKLER HEAD PLACEMENT WITH NEW FOLDING PARTITION. MAKE CONNECTION TO EXISTING 2 1/2" SPRINKLER BRANCH PIPING OUTSIDE OUTLINED AREA. COORDINATE ROUTING OF NEW BRANCH PIPING WITH NEW STRUCTURAL STEEL AND NEW CEILING. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.

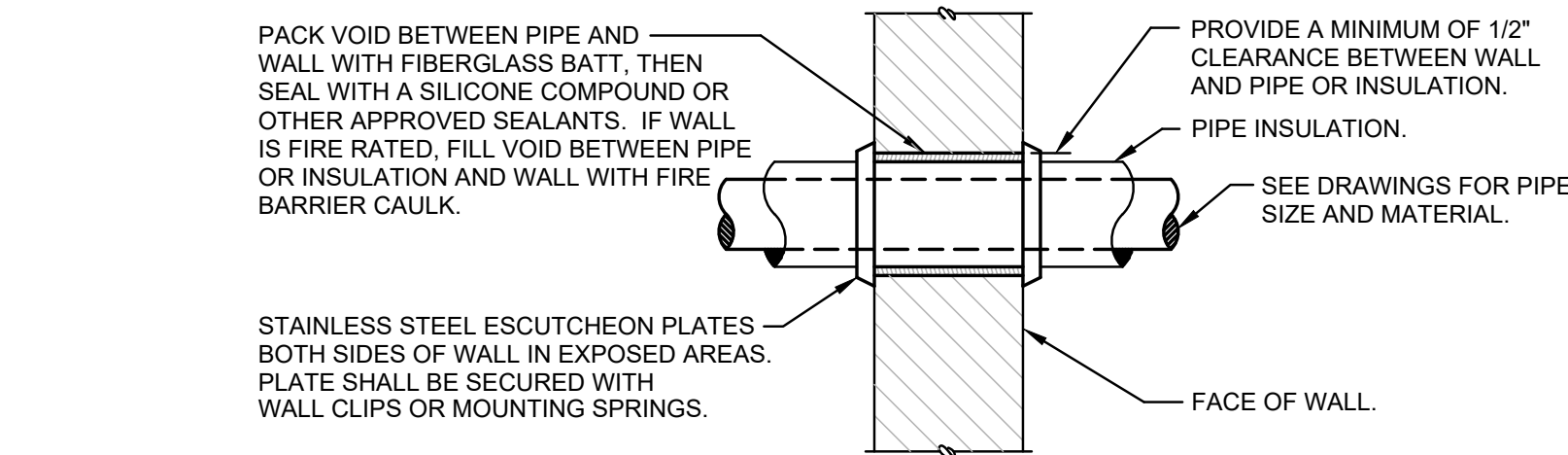
SHOP DRAWINGS/COORDINATION NOTE:

DUE TO THE AVAILABLE SPACE ABOVE THE CEILINGS THE CONTRACTORS SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR EACH TRADE OF THIS PROJECT: SHEET METAL, HVAC PIPING, GAS, PLUMBING, FIRE PROTECTION, ELECTRICAL, ETC. THE SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER AND ARCHITECT AND FULLY COORDINATED BY ALL THE CONTRACTORS PRIOR TO THE START OF CONSTRUCTION.

CEILING NOTE:

REFER TO ARCHITECTURAL DRAWINGS FOR CEILING WORK TO BE PERFORMED BY OTHERS. THIS CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE, RESTORE, CUT, PATCH, PAINT, ETC. ANY CEILING WORK NOT SHOWN ON ARCHITECTURAL DRAWINGS AS REQUIRED TO PERFORM THIS CONTRACTORS WORK. THIS INCLUDES REPLACEMENT OF ANY CEILING TRACK & TILES DAMAGED DURING CONSTRUCTION/DEMOLITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DOCUMENT ANY DAMAGED CEILING TILES OR COMPONENTS PRIOR TO CONSTRUCTION/DEMOLITION.

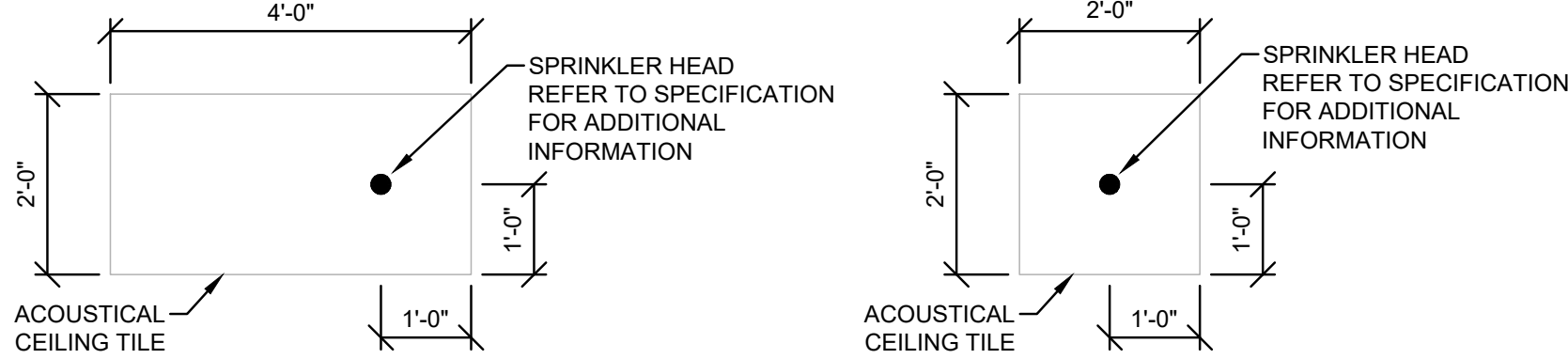
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- NOTES:
1. I.D. OF WALL OPENING TO BE A MIN. OF 1/2" LARGER THAN O.D. OF PIPE OR INSULATION PASSING THROUGH WALL.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THEIR WALL OPENING WITH OTHER TRADES AND/OR CONTRACTORS.
 3. PIPE PENETRATIONS OF SMOKE OR FIRE WALLS SHALL BE IN COMPLIANCE WITH NFPA-90A.

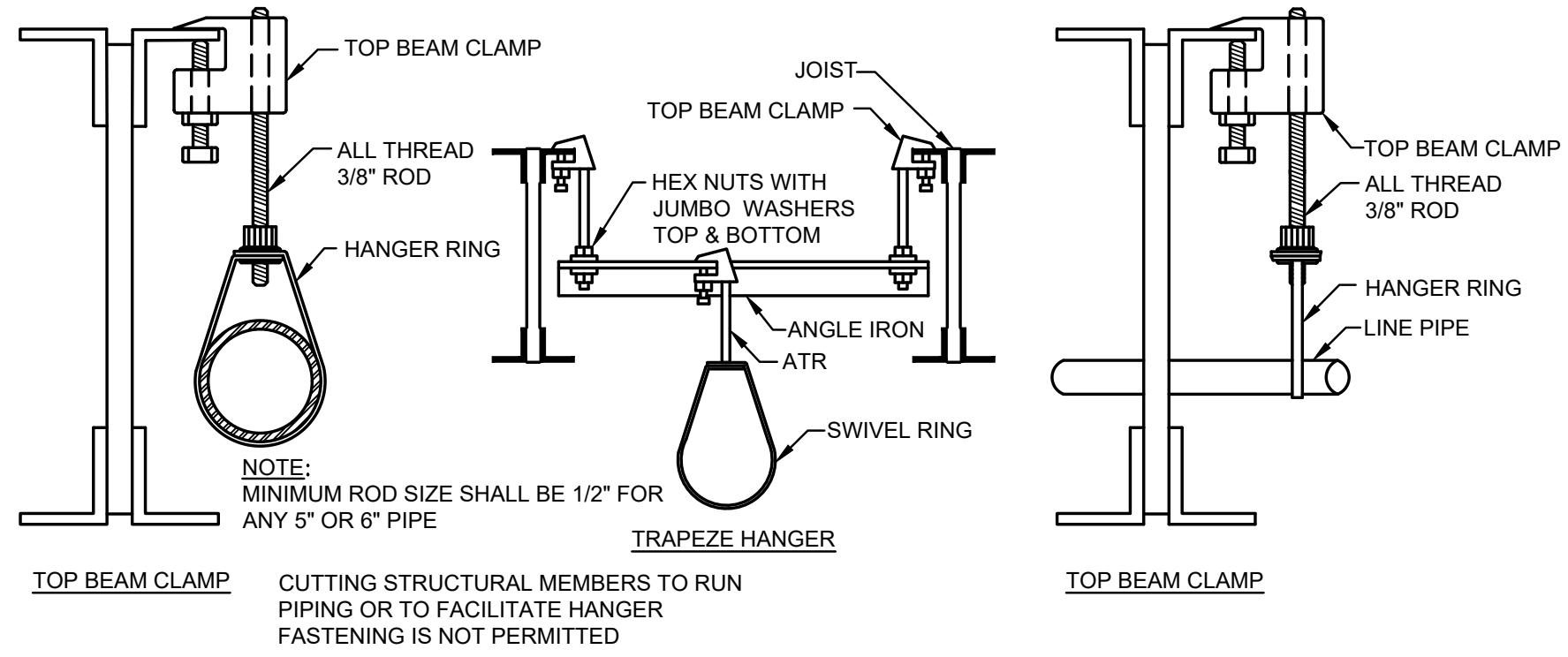
PIPE PENETRATION OF INTERIOR WALL ABOVE GRADE

NO SCALE



SPRINKLER HEAD LOCATION

NO SCALE

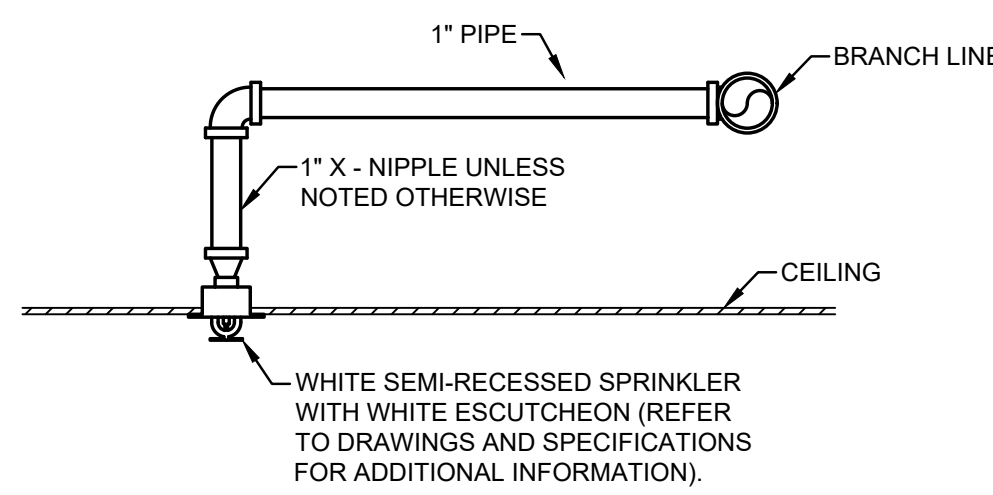


TYPICAL HANGER DETAILS

NO SCALE

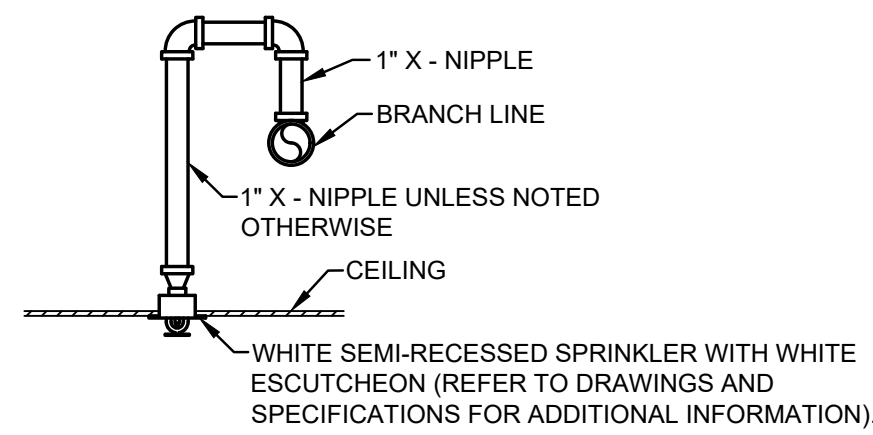
FIRE PROTECTION - GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE A HYDRAULICALLY DESIGNED FIRE PROTECTION SYSTEM TO THE OUTLINED AREA AS INDICATE ON THE DRAWING.
2. SPRINKLER SYSTEM IS TO BE DESIGNED AND INSTALLED TO NFPA 13 2013 EDITION, 2015 INTERNATIONAL FIRE CODE AND 2015 INTERNATIONAL BUILDING CODE.
3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, HYDRAULIC CALCULATIONS AND EQUIPMENT DATA FOR REVIEW PRIOR TO INSTALLING SPRINKLER SYSTEM.
4. CONTRACTOR SHALL PROVIDE WARRANTY FOR ALL MATERIAL AND GUARANTEE ALL WORKMANSHIP FOR (1) ONE YEAR FROM SUBSTANTIAL COMPLETION OF WORK.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL INSPECTIONS WITH THE AUTHORITY HAVING JURISDICTION.
6. A SIGN SHALL BE ATTACHED TO ALL DRAIN VALVES.
7. FIRE PROTECTION CONTRACTOR SHALL PROVIDE 1/8" SCALE PIPING SHOP DRAWINGS FOR COORDINATION WITH OTHER TRADES. DRAWINGS TO INDICATE DIMENSIONS, CUT LENGTHS OF PIPE AND CRITICAL ELEVATION OF PIPING, ETC.
8. ALL NEW PIPING SHALL BE HYDROSTATICALLY TESTED @ 200 PSI FOR NO LESS THAN 2 HOURS. THE FIRE DEPARTMENT SHALL BE NOTIFIED (NO LESS THAN 48 HOURS PRIOR) OF THE DATE AND TIME OF THE TEST AND MAY WITNESS IT IF SO DESIRED OR REQUIRED.
9. CONTRACTOR SHALL PROVIDE ADDITIONAL SPRINKLER HEADS ABOVE AND BELOW MECHANICAL/ELECTRICAL DUCTS AND EQUIPMENT WHICH EXCEED 48 INCHES IN WIDTH IN ACCORDANCE WITH NFPA 13.
10. ALL MATERIAL USED ON THIS PROJECT SHALL BE AS CALLED FOR IN NFPA 13 AND SHALL BE U LISTED.
11. SPRINKLER HEAD LOCATIONS AND SPRINKLER PIPING SHALL BE COORDINATED WITH ALL TRADES PRIOR TO INSTALLATION.
12. ALL APPLICABLE PORTIONS OF NFPA PAMPHLETS, WHICH ADDRESS THE INSTALLATION DETAILED ON THESE PLANS, ARE HEREBY INCORPORATED BY REFERENCE AND MADE PART AND PARCEL OF THIS PLAN.
13. ALL FIRE PROTECTION PIPING SHALL BE SUSPENDED WITH NFPA APPROVED/LISTED PIPE HANGERS.
14. AUXILIARY DRAINS SHALL BE PROVIDED AT THE LOW POINT OF EACH TRAPPED SECTION OF PIPING AND IDENTIFYING SIGNS SHALL BE ATTACHED THERETO.
15. INSTALL ALL DRAIN VALVES IN ACCESSIBLE AREAS. FIELD COORDINATE LOCATION(S) WITH ARCHITECT/OWNER PRIOR TO INSTALLATION. PIPE TO NEAREST MOP BASIN OR EXTERIOR OF BUILDING.
16. A SPARE HEAD CABINET WITH THE APPROPRIATE NUMBER OF SPARE HEADS BY TYPE USED ON THIS PROJECT AND A HEAD WRENCH SHALL BE INSTALLED ADJACENT TO THE RISER.
17. ALL SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE UNLESS OTHERWISE NOTED OR DIRECTED BY THE ARCHITECT/ENGINEER.
18. APPLICABLE INFORMATION ABOUT THE HYDRAULIC CALCULATION DATA SHALL BE POSTED IN A CONSPICUOUS PLACE NEAR THE SYSTEM RISERS.
19. ALL SPRINKLER HEADS IN MECHANICAL ROOMS, STORAGE ROOMS OR IN AREAS SUBJECTED TO MECHANICAL INJURY SHALL HAVE AN APPROVED HEAD GUARD.
20. SPRINKLER PIPING SHALL NOT BE INSTALLED DIRECTLY OVER ANY ELECTRICAL EQUIPMENT PANELS.
21. SYSTEM COMPONENTS SHOWN INCLUDING BUT NOT LIMITED TO SPRINKLER HEADS, PIPING, DRAIN VALVES, ETC. ARE MINIMUMS. CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE OPERATING SYSTEM IN ACCORDANCE WITH NFPA 13 AND AUTHORITY HAVING JURISDICTION.
22. ALL PIPING SHALL BE INSTALLED IN A RUST-FREE CONDITION.
23. THE USE OF BUSHINGS WILL NOT BE PERMITTED FOR THIS INSTALLATION.
24. FINAL HYDRAULIC CALCULATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. PIPE SIZING SHOWN ON THE DRAWINGS REFLECT SCHEMATIC DESIGN AND FOR POTENTIAL SUPPOSITION PURPOSES IN THE FIRE PROTECTION SYSTEM LAYOUT.
25. ALL PIPING AND COMPONENTS NECESSARY FOR INSTALLATION MAY BE PREFABRICATED. HOWEVER, THE CONTRACTOR MUST BE WILLING TO REWORK PREFABRICATED PIPING, FITTINGS, AND THE LIKE, AS NECESSARY TO CONSTITUTE A PROPER APPROVED INSTALLATION, SITE CONDITIONS NOTWITHSTANDING, AT NOT ADDITIONAL COST TO THE OWNER.
26. THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE DURING THE INSTALLATION AND TESTING PERIODS OF THE SPRINKLER WORK FOR ANY DAMAGE TO THE WORK OF THE OWNER OR OTHERS, AND TO THE PROPERTY AND MATERIALS OF THE OWNER AND OTHERS CAUSED BY LEAKS IN THE SPRINKLER EQUIPMENT, FITTINGS, SPRINKLER HEADS, OR BY DISCONNECTED PIPES.
27. ALL EXPOSED PIPING WHICH PASSES THROUGH A WALL OR CEILING SHALL BE EQUIPPED WITH AN ESCUTCHEON PLATE.
28. THE PLAN DRAWINGS ARE CONCEPTUAL AND REPRESENT MINIMUM REQUIREMENTS AND ARE NOT INTENDED TO LIMIT THE CONTRACTORS RESPONSIBILITY UNDER HIS CONTRACT. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ONGOING OPERATIONS, FIELD SURVEY, AND THE CHECKING OF PIPE ROUTING TO AVOID POTENTIAL INTERFERENCES, PRIOR TO PIPE INSTALLATION AND/OR PIPE FABRICATION.
29. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE TEMPERATURE RATED SPRINKLER HEADS PER NFPA BASED ON THE ROOM USE AND TYPES OF HEAT GENERATING EQUIPMENT WITHIN THE ROOM. REFER TO ARCHITECTURAL DRAWINGS AND OTHER TRADE DRAWINGS FOR ADDITIONAL INFORMATION ON ROOM USE AND HEAT GENERATING EQUIPMENT.
30. COORDINATE SPRINKLER HEAD PLACEMENT IN CEILING WITH MECHANICAL SUPPLY DIFFUSERS, RADIANT CEILING PANELS, CABINET UNIT HEATERS OR ANY CEILING MOUNTED HEAT



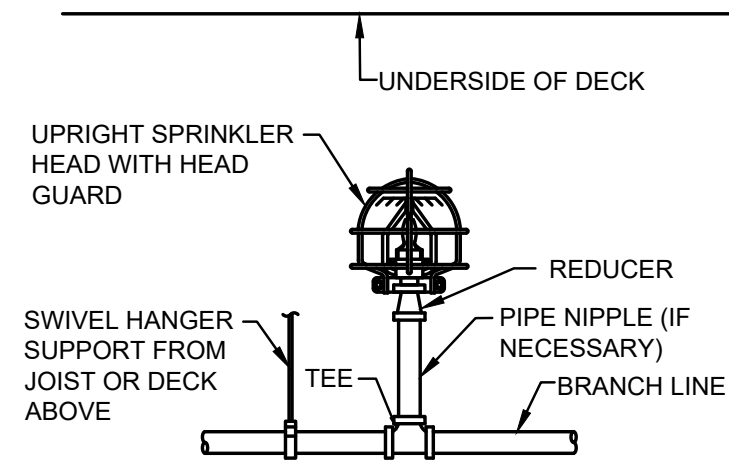
ARM OVER DETAIL

NO SCALE



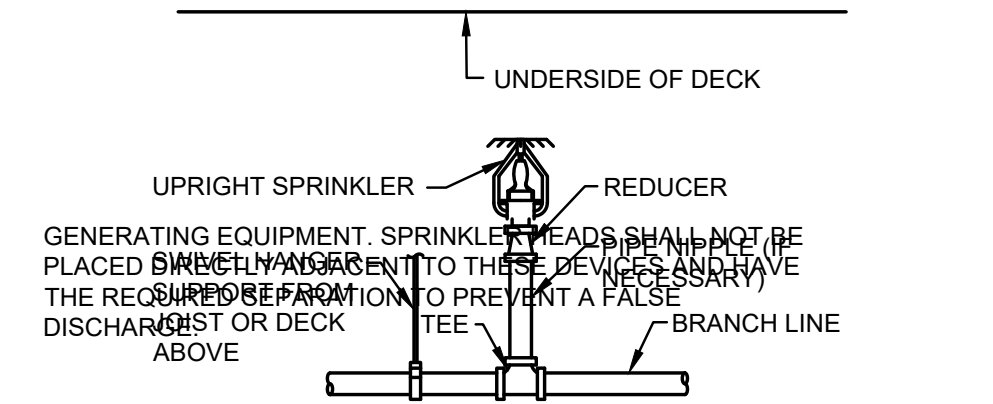
RETURN BEND DETAIL - SEMI RECESSED

NO SCALE



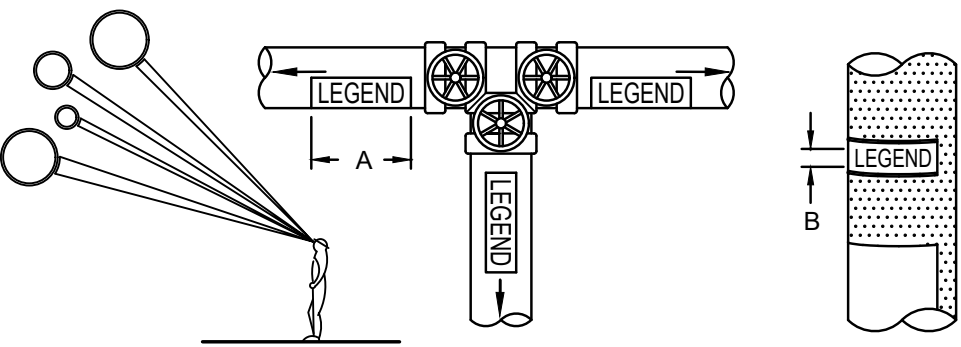
UPRIGHT SPRINKLER HEAD W/GUARD DETAIL

NO SCALE



UPRIGHT SPRINKLER HEAD DETAIL

NO SCALE



NOTE:
IDENTIFICATION MARKERS OR STRIPS TO BE PLACED ON ALL EXPOSED COVERED AND UNCOVERED PIPES AT 50'-0" INTERVALS, ADJACENT TO ALL VALVES OR BRANCHES, AND AT BOTH SIDES OF WALL/FLOOR PENETRATIONS. ARROWS OF SAME COLOR AS IDENTIFICATION MARKERS SHALL ALSO BE PLACED ON PIPES POINTING AWAY FROM MARKER INDICATING DIRECTION OF FLOW.

SIZE OF LEGEND LETTERS		
OUTSIDE DIAMETER OF PIPE OR COVERING	LENGTH OF COLOR FIELD A	SIZE OF LETTERS B
3/4" TO 1 1/4"	8"	1/2"
1 1/2" TO 2"	8"	3/4"
2" 1/2" TO 6"	12"	1 1/4"

SERVICE	BACKGROUND OR COLOR BAND	IDENTIFICATION MARKER
FIRE PROTECTION (SPRINKLER)	RED	WHITE ON RED

TYPICAL PIPE IDENTIFICATION MARKERS

NO SCALE

FIRE PROTECTION SYMBOLS

