



Revisions:	Date

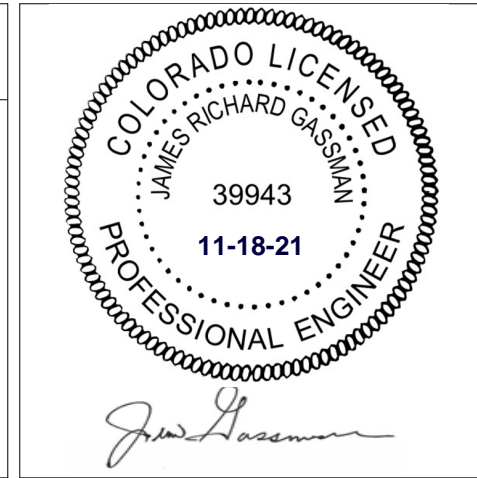
CONSULTANTS:

 CALIBRE
9090 S RIDGELINE BLVD, SUITE 105
HIGHLANDS RANCH, COLORADO 80129
PHONE (303) 730-0434

 Albertson Engineering Inc.

ALBERTSON ENGINEERING, INC.
315 NORTH MAIN AVENUE, SUITE 200
SIOUX FALLS, SOUTH DAKOTA 57104
PH: (605) 274-0880

SUMMIT FIRE CONSULTING
575 MINNEHAHA AVE WEST
ST. PAUL, MINNESOTA 55103
(612) 387-7050



ARCHITECT

 FOURFRONT
DESIGN INC.

FOURFRONT DESIGN, INC.
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Drawing Title

FIRE ALARM COVER SHEET

Approved: Project Director

FARGO VAHCS

Project Title

EXPAND BLDG. 1 FOR
PRIMARY CARE

Location

2101 ELM STREET
FARGO, ND 58102

Date

11/16/2021

Checked

NB

Drawn

CJ

Project Number

437-315

Building Number

1

Drawing Number

FA1.00

Dwg. 123 of 128

Office of
Construction
and Facilities
Management













 Department of
Veterans Affairs

CONSTRUCTION DOCUMENTS

GENERAL NOTES:

1. THIS PROJECT INCLUDES THE DESIGN OF AN EXTENSION TO THE EXISTING ADDRESSABLE FIRE ALARM SYSTEM FOR THE NEW BUILDING ADDITION SHOWN ON THESE PLANS PER NFPA 72 (2019 ed.), LOCAL BUILDING CODES, AND THE VA FIRE PROTECTION DESIGN MANUAL (SEVENTH ed.). NEW WIRING AND DEVICES WILL BE INSTALLED IN PROJECT AREAS ON ALL LEVELS.
2. FINAL DEVICE LOCATION AND CIRCUIT ROUTING IS TO BE DETERMINED BY THE FIRE ALARM CONTRACTOR AND IS SUBJECT TO APPROVAL BY THE ENGINEER OF RECORD.
3. REFER TO SPECIFICATION SECTION 28 31 00 FOR ADDITIONAL FIRE ALARM SYSTEM INFORMATION.
4. ALL DEVICES SHALL BE UL LISTED AND FM APPROVED PER THE VA FIRE PROTECTION DESIGN MANUAL. ALL NEW DEVICES SHALL BE PURCHASED FROM THE BUILDING FIRE ALARM MAINTENANCE CONTRACTOR TO ENSURE COMPATIBILITY WITH BUILDING'S FIRE ALARM SYSTEM.
5. DEVICES ARE REQUIRED TO BE PROTECTED DURING PAINTING.
6. CEILING MOUNTED DEVICES SHALL BE LOCATED IN THE CENTER POINT OF SQUARE CEILING TILES AND ALLOWED TO BE IN THE QUARTER AND/OR CENTER POINTS OF RECTANGULAR CEILING TILES.
7. NOT ALL REQUIRED DEVICES AND WIRING ARE SHOWN. CONSIDERATION OF ADDITIONAL DEVICES AND WIRING DUE TO INTERFERENCE WITH OTHER TRADES, OBSTRUCTIONS, IMPROVED AESTHETICS, OR OWNER/A/HJ REQUESTS SHALL BE MADE PRIOR TO BID BY THE FIRE ALARM CONTRACTOR.
8. FIRE ALARM CONTRACTOR TO PROVIDE ALL NECESSARY MATERIAL TO PROVIDE COMPLETE SYSTEM(S) TO COMPLY WITH NFPA 72, LOCAL BUILDING CODES, AND THE VA FIRE PROTECTION DESIGN MANUAL. ANY AND ALL CLARIFICATIONS TO BID DOCUMENTS SHALL BE MADE PRIOR TO BID.
9. THE FIRE ALARM CONTRACTOR SHALL INSPECT THE SITE PRIOR TO BID. NO ALLOWANCES FOR EXTRA DEVICES ETC. WILL BE ALLOWED AFTER AWARD OF CONTRACT DUE TO MISUNDERSTANDING OF WORK INVOLVED OR LACK OF KNOWLEDGE OF ANY PROJECT SITE CONDITIONS.
10. CONTROL PANEL AND DEVICE LOCATIONS SHOWN ON THESE PLANS IS CONCEPTUAL BUT IS TO BE CLOSELY FOLLOWED BY THE FIRE ALARM CONTRACTOR. ANY MAJOR CHANGES TO WHAT IS BEING INDICATED ON THESE PLANS SHALL FIRST BE APPROVED BY THE ARCHITECT AND ENGINEER OF RECORD.
11. ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, & ELECTRICAL FEATURES INDICATED ON THE FA SHEETS SHALL BE VERIFIED BY CONSULTING THE A/S/M&E SHEETS.
12. ALL CALCULATIONS ARE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR. ANY AND ALL CLARIFICATION TO BID DOCUMENTS SHALL BE MADE PRIOR TO BID.
13. SHOULD ANY EXISTING SYSTEM DEFICIENCIES NOT INDICATED ON THESE PLANS BE DISCOVERED AS PART OF CONDUCTING THE WORK INCLUDED IN THIS SCOPE, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY.
14. THESE PLANS SHALL BE USED AS A GENERAL GUIDE IN THE GENERATION OF THE FIRE ALARM CONTRACTOR'S BID AND ARE NOT INTENDED TO INDICATE THE ENTIRE EXTENT OF ALARM PROTECTION REQUIRED. ANY AREAS REQUIRED TO BE PROTECTED PER NFPA 72 THAT MAY OR MAY NOT BE SHOWN WITH PROTECTION ON THESE PLANS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
15. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND RE-INSTALLING OF EXISTING CEILING TILE AND WALLS NOT REMOVED BY THE GENERAL CONTRACTOR FOR THE DEMOLITION OF EXISTING FIRE ALARM DEVICES, WIRING, ETC. ANY CEILING OR WALL COMPONENTS DAMAGED SHALL BE REPLACED OR PATCHED WITH NEW BY THIS CONTRACTOR.
16. FIRE ALARM RISER DIAGRAM AND SHOP DRAWINGS, INCLUDING BATTERY CALCULATIONS AND NOTIFICATION APPLIANCE CIRCUIT VOLTAGE DROP ANALYSIS PLUS SEQUENCE OF OPERATIONS, SHALL BE PREPARED AND SUBMITTED BY THE FIRE ALARM CONTRACTOR.

FIRE ALARM DEVICE SYMBOLS

-  SPOT-TYPE SMOKE DETECTOR
-  DUCT-TYPE SMOKE DETECTOR
-  MANUAL PULL STATION
-  SPRINKLER WATER FLOW MONITOR MODULE
-  SPRINKLER TAMPER SWITCH MONITOR MODULE
-  MAGNETIC DOOR HOLD RELAY
-  SPEAKER STROBE - CEILING MOUNT
-  SPEAKER STROBE - WALL MOUNT
-  SPEAKER - CEILING MOUNT
-  ISOLATION MODULE
-  SPEAKER STROBE - WALL MOUNT WATER PROOF
-  STROBE - WALL MOUNT

FIRE ALARM CONTROL PANEL MATRIX		ANNUNCIATE ON FIRE ALARM CONTROL PANEL	SIGNAL SUPERVISING STATION	ACTIVATE AUDIBLE NOTIFICATION	ACTIVATE VISIBLE NOTIFICATION	RELEASE ASSOCIATED DOOR HOLDS	INITIATE RECALL ELEVATOR	INITIATE DOWNSTAIRS ESCAPE ROUTE	SHUTDOWN ASSOCIATED AIR HANDLER AND CLOSE ASSOCIATED FRS DAMPERS
EVENT									
MANUAL PULL STATION ACTIVATION		●	●	●	●	●			
SMOKE DETECTOR ACTIVATION		●	●	●	●	●			
DUCT SMOKE DETECTOR ACTIVATION		●	●	●	●	●		●	

1. MATRIX SHALL FOLLOW PROVISIONS OF VA FIRE PROTECTION DESIGN MANUAL FOR ZONED NOTIFICATION REQUIREMENTS.
2. THE SAME SYSTEM RESPONSE SHALL BE USED IN THE ADDITION AS WHAT IS CURRENTLY USED IN THE EXISTING FACILITY.

FIRE ALARM DEVICE SYMBOLS

- SPOT-TYPE SMOKE DETECTOR
- DUCT-TYPE SMOKE DETECTOR
- MANUAL PULL STATION
- SPRINKLER WATER FLOW MONITOR MODULE
- SPRINKLER TAMPER SWITCH MONITOR MODULE
- MAGNETIC DOOR HOLD RELAY
- SPEAKER STROBE - CEILING MOUNT
- SPEAKER STROBE - WALL MOUNT
- SPEAKER - CEILING MOUNT
- ISOLATION MODULE
- SPEAKER STROBE - WALL MOUNT WATER PROOF
- STROBE - WALL MOUNT

NEW PLAN AREA LEGEND:

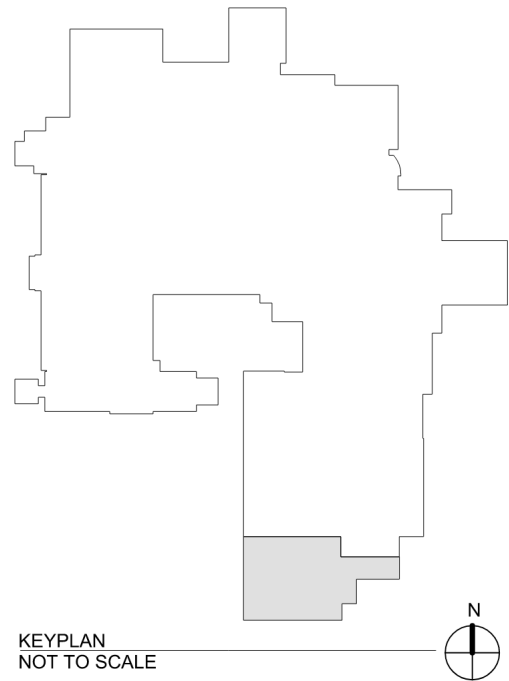
- LIMITS OF PROJECT/CONSTRUCTION UNDER THIS CONTRACT.
- EXISTING TO REMAIN.

FIRE BARRIER SYMBOLS

- 1-HOUR FIRE BARRIER
- SMOKE PARTITION
- 2-HOUR FIRE BARRIER

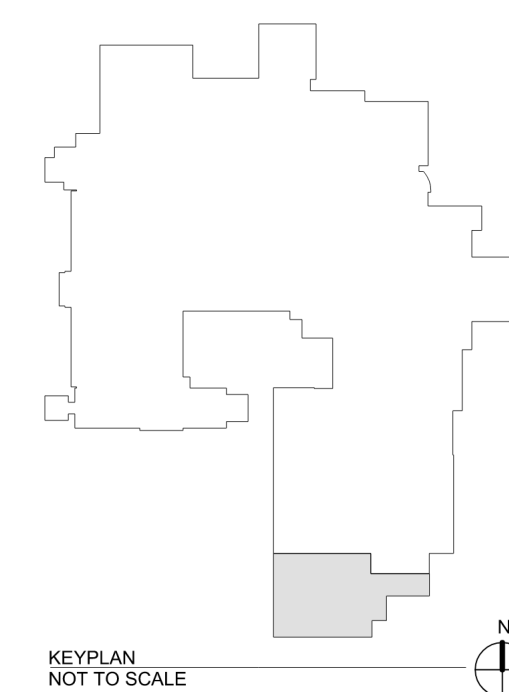
SHEET NOTES:

- ALL EXISTING DEVICES IN WORK AREA TO BE REMOVED AND REPLACED PER THIS LAYOUT.
- ALL NEW FIRE ALARM DEVICES TO TIE INTO EXISTING FIRE ALARM PANEL.
- CONFIRM NEW SMOKE ZONE BOUNDARIES WITH ARCHITECT OF RECORD.
- CONTRACTOR TO PROVIDE ALL PROGRAMMING, MESSAGE CHIPS, ETC. REQUIRED FOR CHANGE TO THE EXISTING FIRE ALARM SYSTEM.



CONSTRUCTION DOCUMENTS

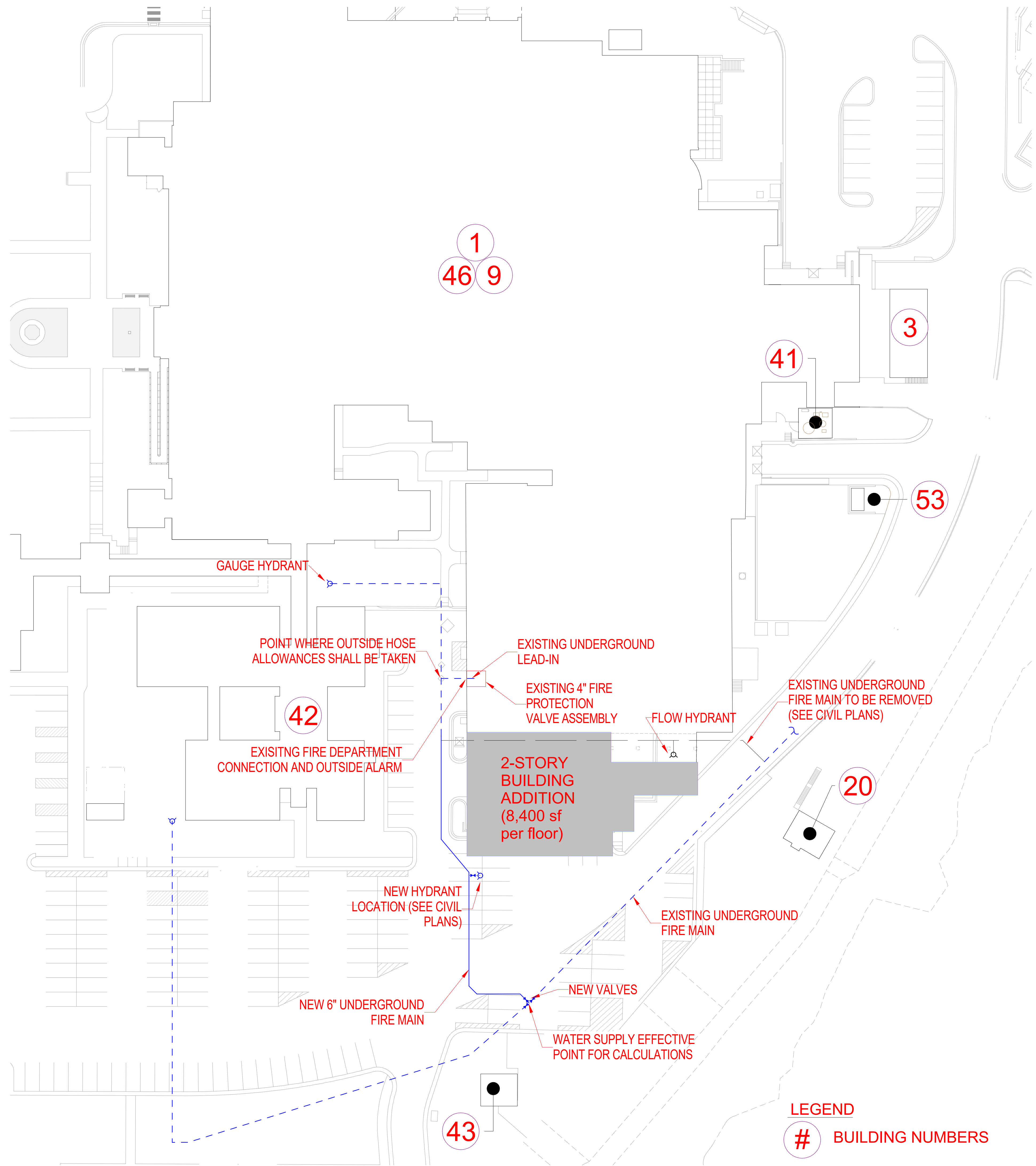
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CONSTRUCTION DOCUMENTS

GENERAL NOTES:

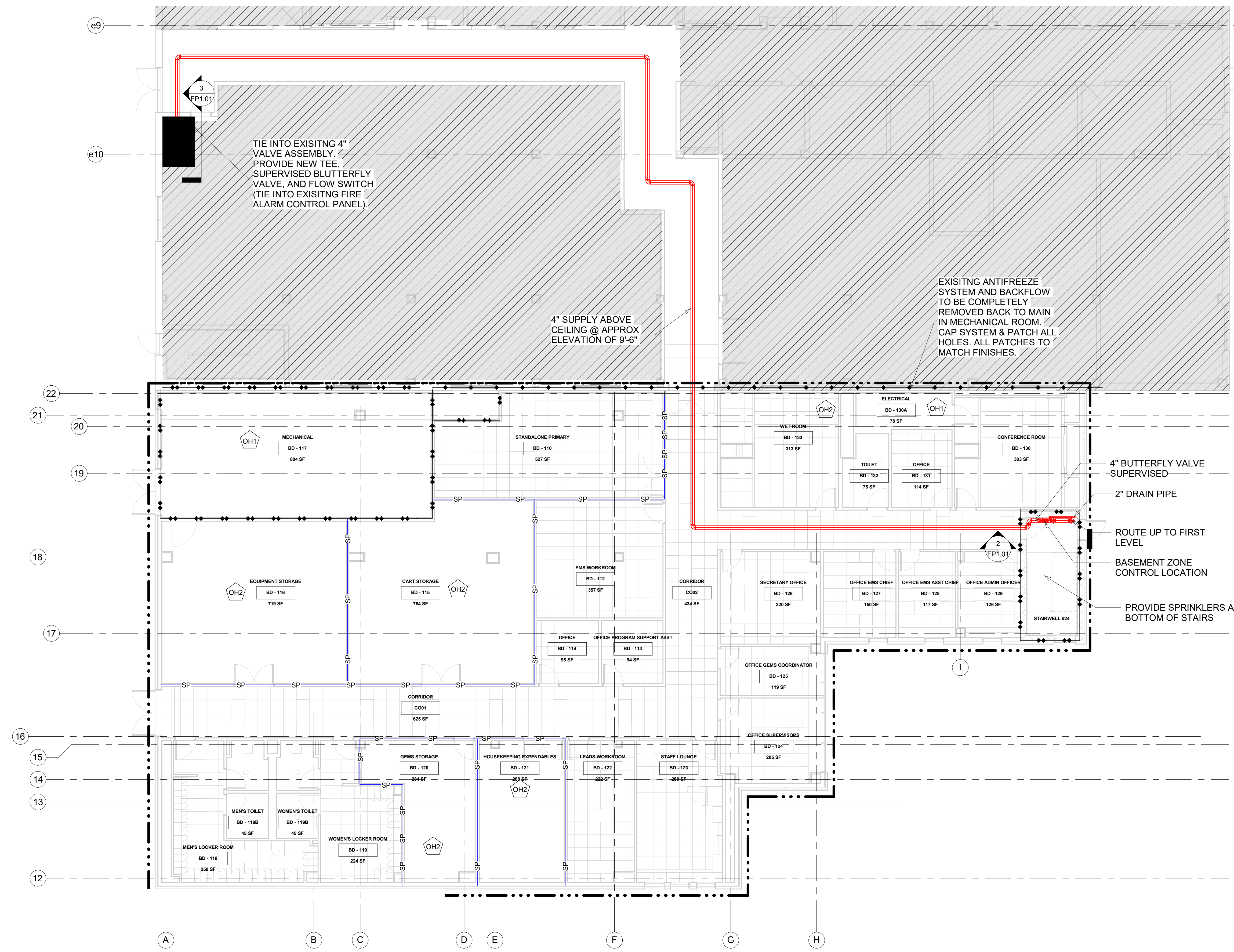
- FIRE PROTECTION CONTRACTOR'S SCOPE OF WORK INCLUDES INSTALLATION OF A STANDPIPE SYSTEM TIED INTO THE EXISTING 4" VALVE ASSEMBLY AND WET SPRINKLER PROTECTION AT BASEMENT LEVEL AND FIRST LEVEL OF THE NEW ADDITION. LIMITED REWORK WITHIN THE EXISTING BUILDING IS REQUIRED.
- NEW ADDITION SHALL HAVE ENTIRELY NEW SPRINKLER ZONE SUPPLIED WITHIN NEW STAIRWELL AS SHOWN ON DRAWINGS. THIS IS TO MAINTAIN CORRELATION OF NEW SPRINKLER ZONES TO THE NEW SMOKE ZONE OF THE ADDITION.
- ALL COMPONENTS OF THE SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH VA DESIGN GUIDELINES, NFPA 13 (2019), NFPA 14 (2019) AND NFPA 25 (2020) EDITION. REFER TO SPECIFICATION SECTIONS 21 08 00 & 21 13 13 FOR ADDITIONAL FIRE SPRINKLER SYSTEM INFORMATION.
- ALL PATIENT CARE AREAS ASSUME LIGHT HAZARD PROTECTION IN ACCORDANCE WITH NFPA 13 (2019). PARKING, MECHANICAL/ELECTRICAL ROOMS ORDINARY HAZARD GROUP 1 PROTECTION IN ACCORDANCE WITH NFPA 13 (2019). STORAGE AREAS, LAUNDRY, ORDINARY HAZARD GROUP 2 PROTECTION IN ACCORDANCE WITH NFPA 13 (2019).
- EXIT STAIRWELL TO BE PROVIDED WITH PLUGGED/CAPPED 2 1/2" OUTLETS FOR POTENTIAL FUTURE STANDPIPE SYSTEM. ZONE CONTROL VALVES WILL BE PROVIDED AT EACH LEVEL.
- CONFIRM 3" ZONE CONTROL MAINS AND 1 1/2" BRANCHLINES FOR SPRINKLER SYSTEM PIPE SIZING VIA HYDRAULIC CALCULATIONS.
- PROVIDE ALL SYSTEM COMPONENTS NECESSARY FOR A COMPLETE INSTALLATION. SYSTEM COMPONENTS SHALL INCLUDE BUT ARE NOT LIMITED TO DISTRIBUTION PIPING, SPRINKLER PIPING, SPRINKLERS, PIPE SUPPORTS, ALARMS, DRAINS, TEST CONNECTIONS, CONTROL VALVES AND CHECK VALVES.
- SEMI RECESSED SPRINKLERS REQUIRED IN AREAS WITH FINISHED CEILINGS. CONCEALED SPRINKLERS ARE NOT ALLOWED IN LIGHT HAZARD OCCUPANCIES PER VA GUIDELINES. UPRIGHTS IN EXPOSED AREAS TO BE BRASS FINISH.
- TAMPER SWITCHES AND FLOW SWITCHES ARE TO BE PROVIDED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR AND WIRED PER SPECIFICATION - DIVISION 28.
- TESTING OF SPRINKLER PIPING SHALL BE IN ACCORDANCE WITH NFPA 13 - 200 PSI FOR 2 HRS.
- SHOP DRAWINGS SHALL BE APPROVED BY THE OWNER'S DESIGNATED REPRESENTATIVE AND THE AHJ PRIOR TO FABRICATION.
- HANG ALL PIPING PER NFPA 13 - CHAPTER 9. CONTRACTOR SHALL INDICATE ALL PIPE SUPPORTS.
- STEEL PIPING IS REQUIRED IN ALL AREAS.
- UNLESS NOTED OTHERWISE ALL AREAS INCLUDE WET SPRINKLER SYSTEMS. TEMPERATURES MAINTAINED GREATER THAN OR EQUAL TO 40 DEGREES FAHRENHEIT AT ALL TIMES.
- ALL PENETRATIONS AT FIRE BARRIERS OR OTHER RATED ASSEMBLIES ARE REQUIRED TO BE SEALED IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE OR OTHER APPROVED MEANS.
- COORDINATION IS REQUIRED WITH ALL TRADES. PROVIDE SPRINKLER PROTECTION ABOVE AND BELOW ALL OBSTRUCTIONS.
- COORDINATE SHUT DOWNS AND TIE IN WORK WITH AHJ AND GENERAL CONTRACTOR AND VA FP ENGINEERING.
- FLOW TEST PROVIDED FROM SUMMIT FIRE CONSULTING (SFC)
 - A. STATIC: 48 PSI
 - B. RESIDUAL: 38 PSI
 - C. FLOW: 809 GPM
 - D. DATE: 9/1/2021
 - E. EFFECTIVE POINT: WHERE THE NEW 6" FIRE MAIN TIES INTO THE EXISTING LOOP MAIN SOUTH OF THE BUILDING.
 - F. HOSE ALLOWANCES SHALL BE TAKEN AT THE POINT OF CONNECTION TO THE EXISTING LEAD-IN MAIN TO THE EXISTING OUTSIDE MAIN JUST WEST OF THE EXISTING RISER.



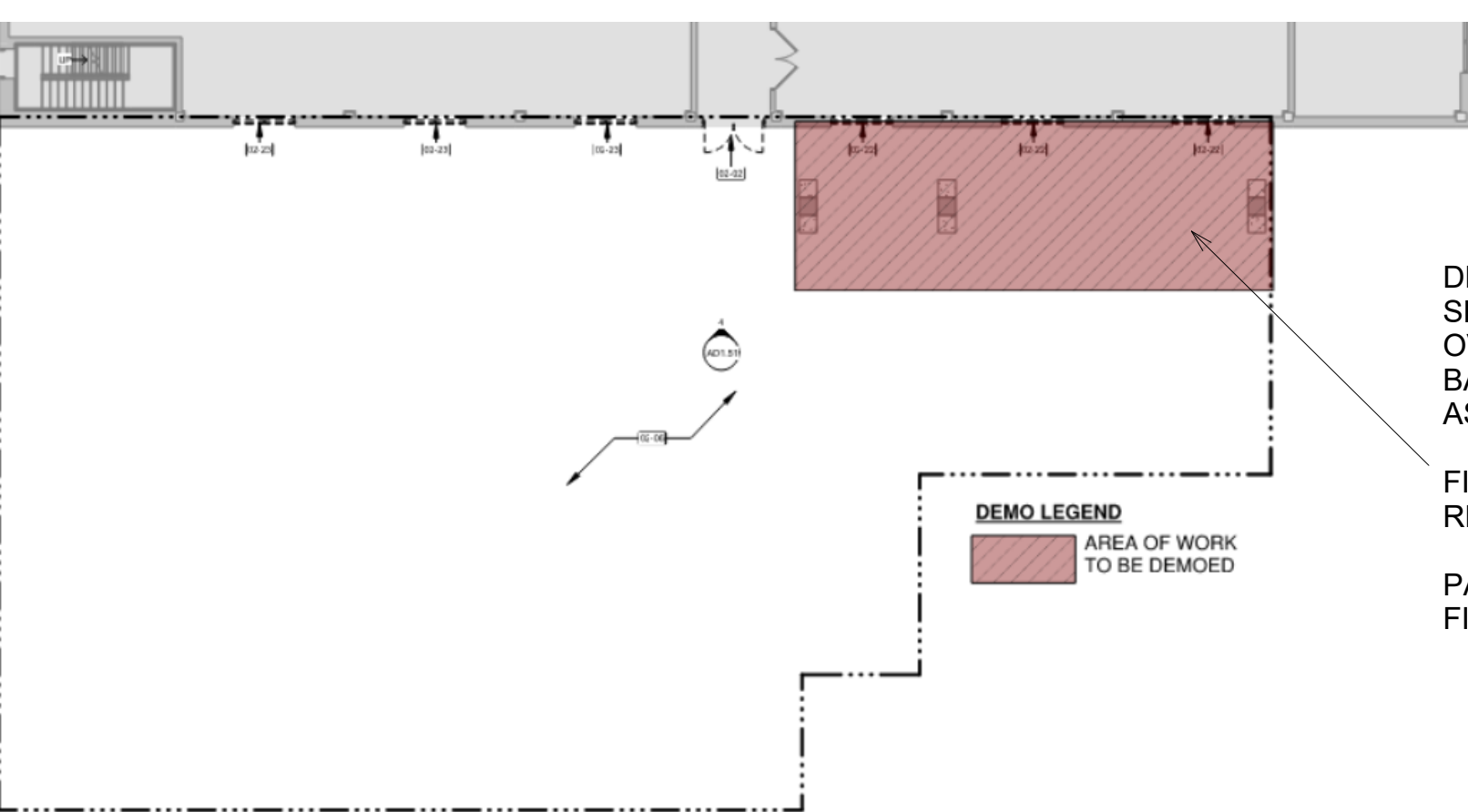
1 SITE PLAN
1/32" = 1'-0"

CONSTRUCTION DOCUMENTS

		CONSULTANTS:		ARCHITECT		Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management Department of Veterans Affairs			
		<div><div>CALIBRE</div><div>9090 S RIDGELINE BLVD, SUITE 105 HIGHLANDS RANCH, COLORADO 80129 PHONE (303) 730-0434</div></div>		<div><div>Albertson Engineering, Inc.</div><div>ALBERTSON ENGINEERING, INC. 315 NORTH MAIN AVENUE, SUITE 200 SIOUX FALLS, SOUTH DAKOTA 57104 PH: (605) 274-0880</div></div>		<div><div></div><div>FOURFRONT DESIGN, INC.</div><div>FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM</div></div>		FIRE PROTECTION COVER SHEET		EXPAND BLDG. 1 FOR PRIMARY CARE				Building Number 1	
		<div><div>SUMMIT FIRE PROTECTION</div><div>SUMMIT FIRE CONSULTING 575 MINNEHAHA AVE WEST ST. PAUL, MINNESOTA 55103 (612) 387-7050</div></div>				Approved: Project Director FARGO VAHCS		Location 2101 ELM STREET FARGO, ND 58102		Drawing Number FP1.00					
Revisions:		Date				Date 11/16/2021		Checked NB		Drawn CJ					
										Dwg. 126 of 128					



1 FIRE PROTECTION PLAN - BASEMENT
1/8" = 1'-0"



3 DEMO - GLYCOL SPRINKLER SYSTEM
SCALE: NO SCALE

HAZARD CLASSIFICATIONS (PER NFPA 13)

LIGHT HAZARD: 0.10 GPM/SF OVER 1,500SF, 100GPM HOSE STREAM

ORDINARY HAZARD GROUP 1: PARAMETERS IN ACCORDANCE WITH NFPA 13, 250GPM HOSE STREAM

ORDINARY HAZARD GROUP 2: PARAMETERS IN ACCORDANCE WITH NFPA 13, 250GPM HOSE STREAM

- SHEET NOTES:**
- PIPE ROUTING TO BE VERIFIED DURING FIELD SURVEY. ROUTE SHOWN IS SCHEMATIC.
 - COORDINATE ANY EXISTING CEILING TILE REMOVAL IN EXISTING BUILDING FOR NEW PIPE INSTALL.
 - COORDINATE WITH ALL TRADES TO AVOID CONFLICTS. SPRINKLER MAINS AND SUPPLY TO ROUTE AS TIGHT AS POSSIBLE TO BOTTOM OF STRUCTURAL BEAMS TO AVOID MECHANICAL EQUIPMENT.
 - DEMO WORK AT THIS LEVEL SHOULD INCLUDE THE REMOVAL OF THE EXISTING ANTIFREEZE SYSTEM AND BACKFLOW.

NEW PLAN AREA LEGEND:

--- LIMITS OF PROJECT/CONSTRUCTION UNDER THIS CONTRACT.

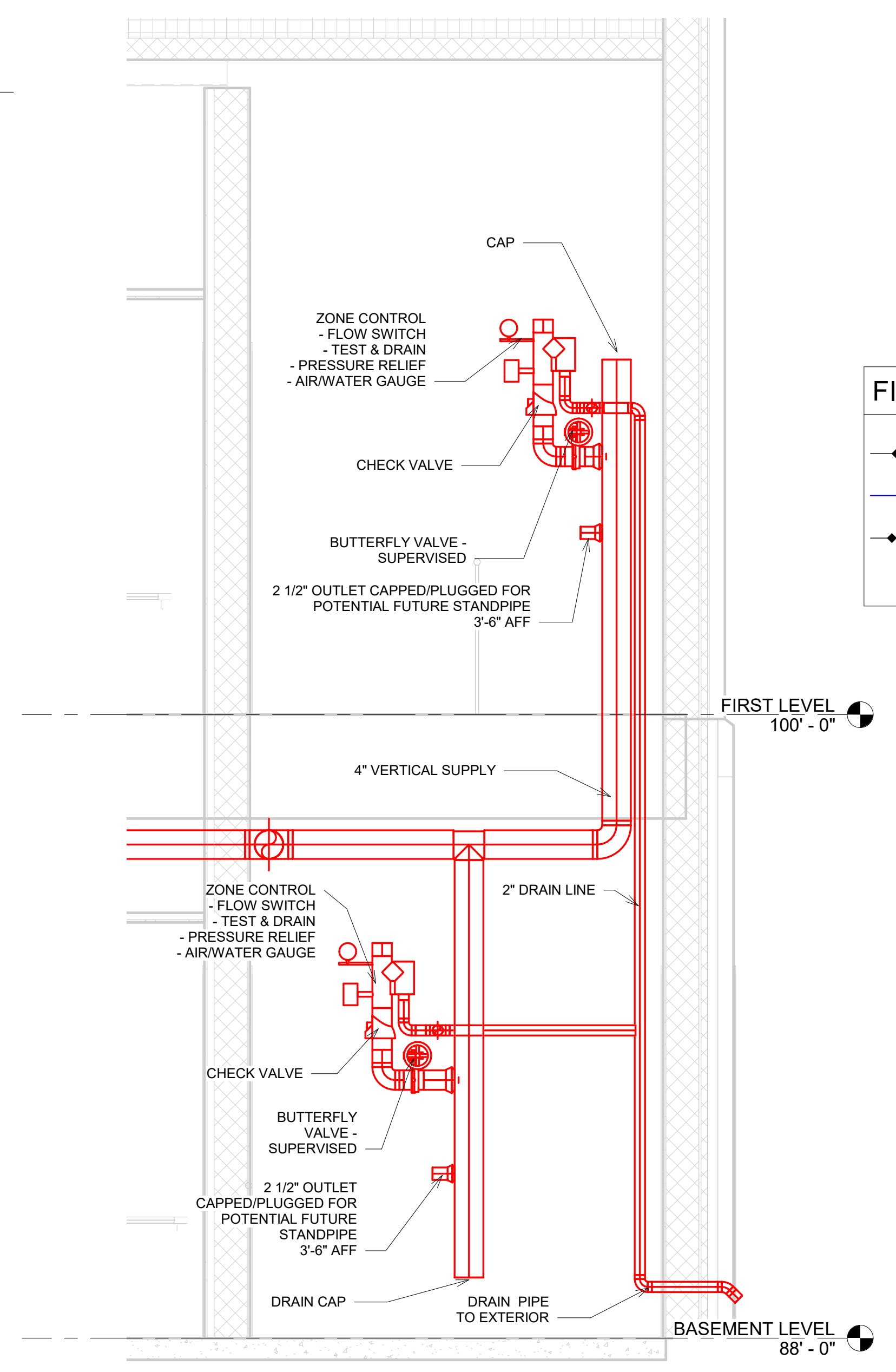
EXISTING TO REMAIN.

FIRE BARRIER SYMBOLS

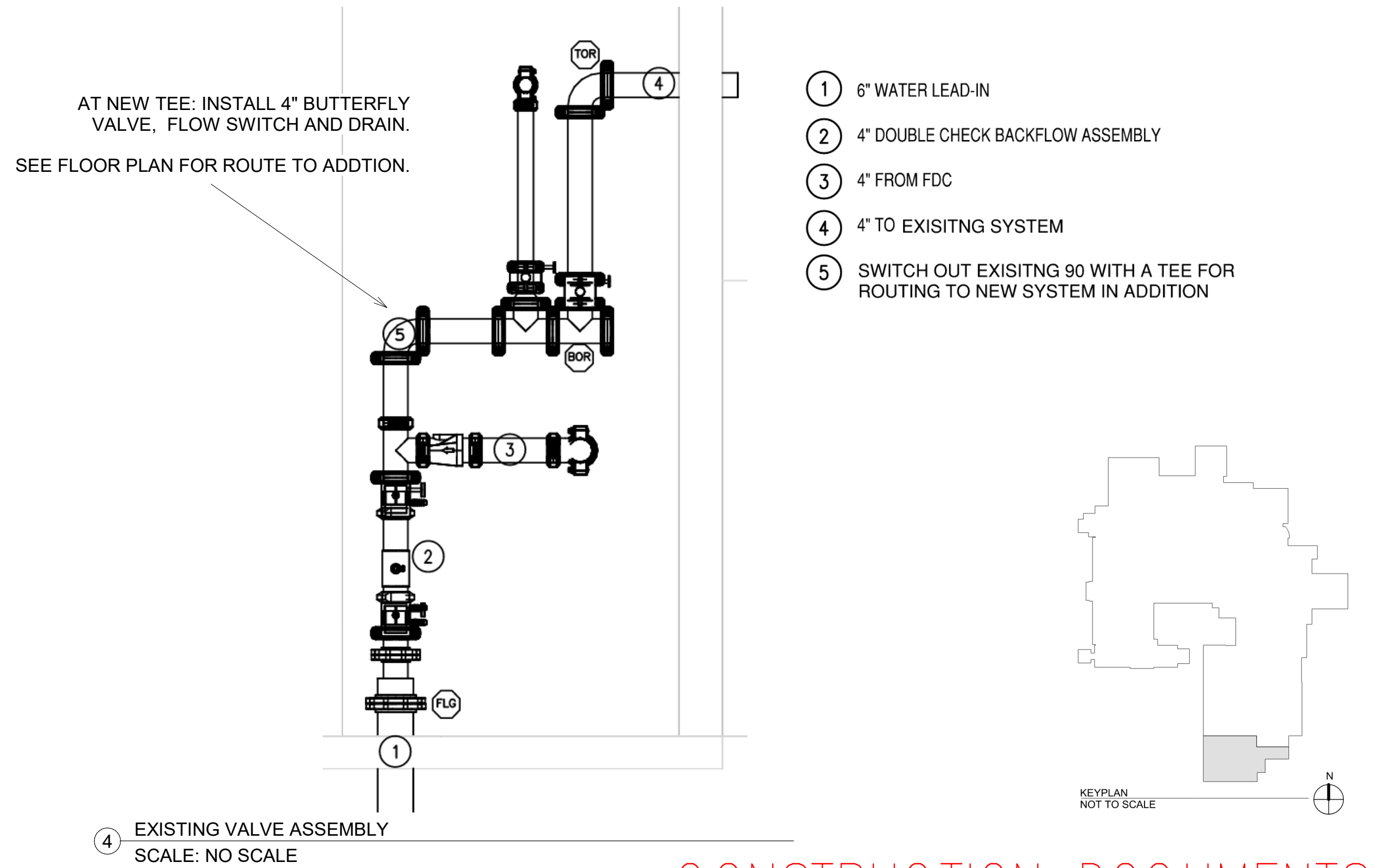
1-HOUR FIRE BARRIER

SP-SP SMOKE PARTITION

2-HOUR FIRE BARRIER



2 ZONE DETAIL
1/2" = 1'-0"

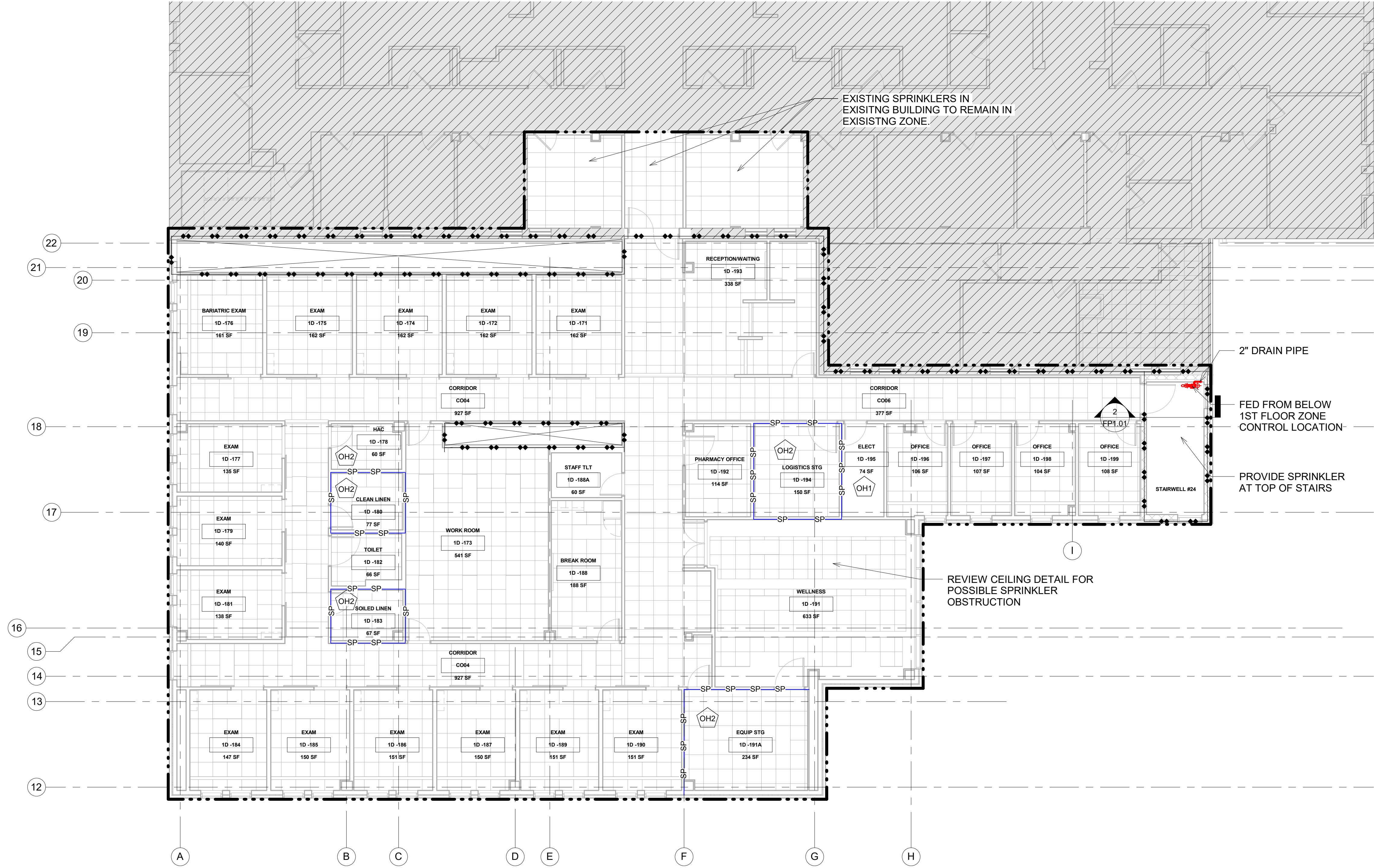


CONSTRUCTION DOCUMENTS

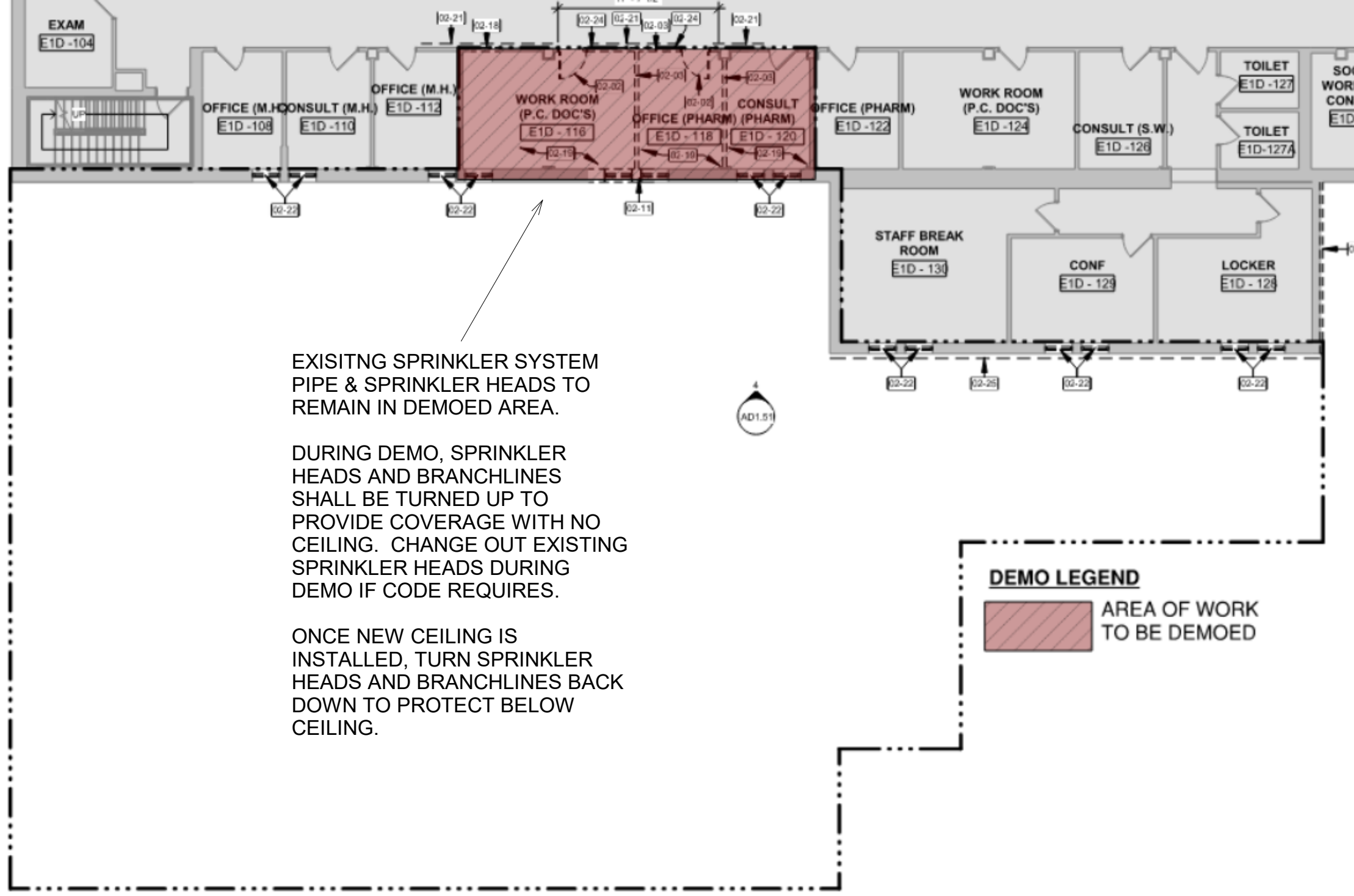
		CONSULTANTS:		 CALIBRE 9090 S RIDGELINE BLVD, SUITE 105 HIGHLANDS RANCH, COLORADO 80129 PHONE (303) 730-0434		 Albertson Engineering Inc. ALBERTSON ENGINEERING, INC. 315 NORTH MAIN AVENUE, SUITE 200 SIOUX FALLS, SOUTH DAKOTA 57104 PH: (605) 274-0880		 SUMMIT FIRE CONSULTING 575 MINNEHAHA AVE WEST ST. PAUL, MINNESOTA 55103 (612) 387-7050				ARCHITECT  FOURFRONT DESIGN INC. FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM				Drawing Title FIRE PROTECTION - BASEMENT LEVEL		Project Title EXPAND BLDG. 1 FOR PRIMARY CARE		Project Number 437-315 Building Number 1		Office of Construction and Facilities Management  Department of Veterans Affairs	
												Approved: Project Director FARGO VAHCS		Location 2101 ELM STREET FARGO, ND 58102		Drawing Number FP1.01 Dwg. 127 of 128							
Revisions:		Date												Date 11/16/2021		Checked NB		Drawn CJ					

11/17/2021 11:43:09 AM

one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot
four inches = one foot
five inches = one foot
six inches = one foot
seven inches = one foot
eight inches = one foot
nine inches = one foot
ten inches = one foot
eleven inches = one foot
twelve inches = one foot
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eighty nine inches = one foot
ninety inches = one foot
ninety one inches = one foot
ninety two inches = one foot
ninety three inches = one foot
ninety four inches = one foot
ninety five inches = one foot
ninety six inches = one foot
ninety seven inches = one foot
ninety eight inches = one foot
ninety nine inches = one foot
one hundred inches = one foot



1 FIRE PROTECTION PLAN - FIRST LEVEL
1/8" = 1'-0"



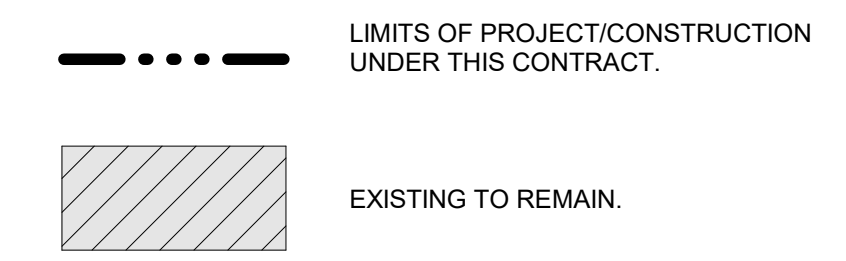
2 DEMO - EXISTING SPRINKLER SYSTEM
SCALE: NO SCALE

HAZARD CLASSIFICATIONS (PER NFPA 13)	
LIGHT HAZARD:	0.10 GPM/SF OVER 1,500SF, 100GPM HOSE STREAM
OH1	ORDINARY HAZARD GROUP 1: PARAMETERS IN ACCORDANCE WITH NFPA 13, 250GPM HOSE STREAM
OH2	ORDINARY HAZARD GROUP 2: PARAMETERS IN ACCORDANCE WITH NFPA 13, 250GPM HOSE STREAM

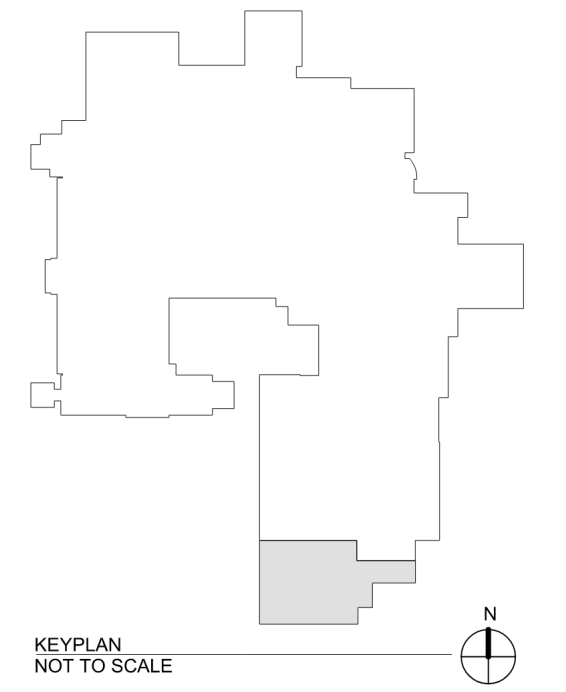
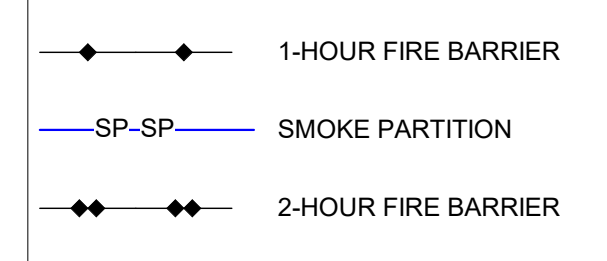
SHEET NOTES:

1. COORDINATE WITH ALL TRADES TO AVOID CONFLICTS. SPRINKLER MAINS AND SUPPLY TO ROUTE AS TIGHT AS POSSIBLE TO BOTTOM OF STRUCTURAL BEAMS TO AVOID MECHANICAL EQUIPMENT.

NEW PLAN AREA LEGEND:



FIRE BARRIER SYMBOLS



CONSTRUCTION DOCUMENTS

CONSULTANTS:  CALIBRE 9090 S RIDGELINE BLVD, SUITE 105 HIGHLANDS RANCH, COLORADO 80129 PHONE (303) 730-0434  Albertson Engineering Inc.  SUMMIT FIRE PROTECTION	ALBERTSON ENGINEERING, INC. 315 NORTH MAIN AVENUE, SUITE 200 SIOUX FALLS, SOUTH DAKOTA 57104 PH: (605) 274-0880 SUMMIT FIRE CONSULTING 575 MINNEHAHA AVE WEST ST. PAUL, MINNESOTA 55103 (612) 387-7050	  ARCHITECT FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM	Drawing Title FIRE PROTECTION - FIRST LEVEL Approved: Project Director FARGO VAHCS	Project Title EXPAND BLDG. 1 FOR PRIMARY CARE Location 2101 ELM STREET FARGO, ND 58102 Date 11/16/2021 Checked NB Drawn CJ	Project Number 437-315 Building Number 1 Drawing Number FP1.02 Dwg. 128 of 128	Office of Construction and Facilities Management  Department of Veterans Affairs
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