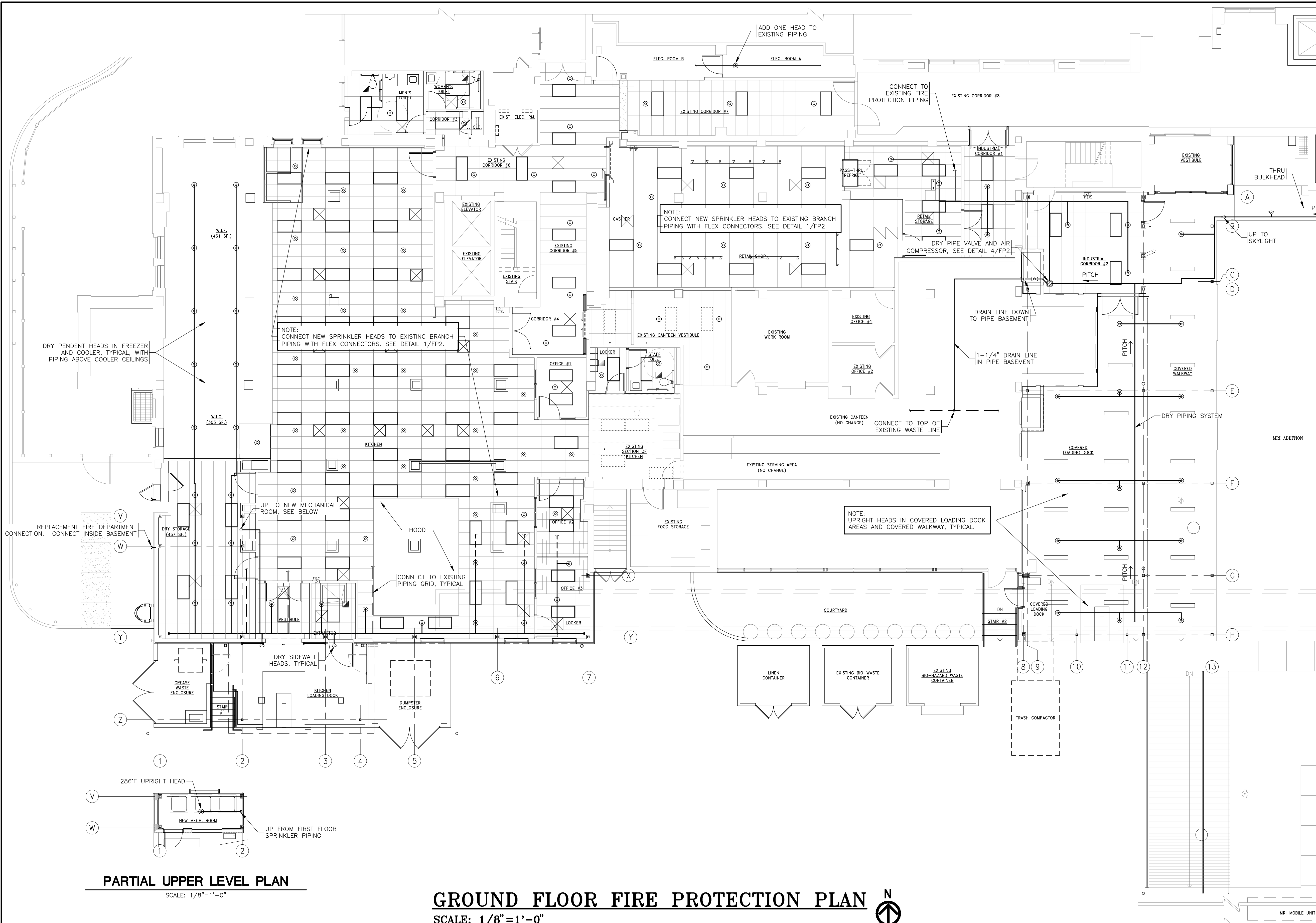


three eighths inch = one foot  
one eighth inch = one foot  
one quarter inch = one foot  
one half inch = one foot  
three quarters inch = one foot  
one inch = one foot  
one and one half inches = one foot  
two inches = one foot  
three inches = one foot  
four inches = one foot  
five inches = one 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  
thirteen inches = one foot  
fourteen inches = one foot  
fifteen inches = one foot  
sixteen inches = one foot  
seventeen inches = one foot  
eighteen inches = one foot  
nineteen inches = one foot  
twenty inches = one foot  
twenty one inches = one foot  
twenty two inches = one foot  
twenty three inches = one foot  
twenty four inches = one foot  
twenty five inches = one foot  
twenty six inches = one foot  
twenty seven inches = one foot  
twenty eight inches = one foot  
twenty nine inches = one foot  
thirty inches = one foot  
thirty one inches = one foot  
thirty two inches = one foot  
thirty three inches = one foot  
thirty four inches = one foot  
thirty five inches = one foot  
thirty six inches = one foot  
thirty seven inches = one foot  
thirty eight inches = one foot  
thirty nine inches = one foot  
forty inches = one foot  
forty one inches = one foot  
forty two inches = one foot  
forty three inches = one foot  
forty four inches = one foot  
forty five inches = one foot  
forty six inches = one foot  
forty seven inches = one foot  
forty eight inches = one foot  
forty nine inches = one foot  
fifty inches = one foot  
fifty one inches = one foot  
fifty two inches = one foot  
fifty three inches = one foot  
fifty four inches = one foot  
fifty five inches = one foot  
fifty six inches = one foot  
fifty seven inches = one foot  
fifty eight inches = one foot  
fifty nine inches = one foot  
sixty inches = one foot  
sixty one inches = one foot  
sixty two inches = one foot  
sixty three inches = one foot  
sixty four inches = one foot  
sixty five inches = one foot  
sixty six inches = one foot  
sixty seven inches = one foot  
sixty eight inches = one foot  
sixty nine inches = one foot  
seventy inches = one foot  
seventy one inches = one foot  
seventy two inches = one foot  
seventy three inches = one foot  
seventy four inches = one foot  
seventy five inches = one foot  
seventy six inches = one foot  
seventy seven inches = one foot  
seventy eight inches = one foot  
seventy nine inches = one foot  
eighty inches = one foot  
eighty one inches = one foot  
eighty two inches = one foot  
eighty three inches = one foot  
eighty four inches = one foot  
eighty five inches = one foot  
eighty six inches = one foot  
eighty seven inches = one foot  
eighty eight inches = one foot  
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



- ### GENERAL SPRINKLER NOTES
- ALL DRAWINGS ARE "PRELIMINARY" (AS DEFINED BY NFPA 13), DIAGRAMMATIC AND ARE NOT TO BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
  - THE CONTRACTOR SHALL COORDINATE WITH ALL STATE AND LOCAL BUILDING REGULATION AGENCIES AND UTILITY COMPANY(S) IN THE PROCUREMENT OF AND PAYMENT OF ALL PERMITS, LICENSES, FEES AND CHARGES REQUIRED FOR THE PERFORMANCE OF THE WORK.
  - THE CONTRACTOR IS RESPONSIBLE FOR ALL FEES AND DIRECT EXPENSES INVOLVED IN ANY INSPECTION REQUIRED FOR THE PROJECT.
  - SEE SPECIFICATION SECTION "CONTRACT CLOSE-OUT AND COMMISSIONING" FOR WORK REQUIRED TO COMPLETE THIS PROJECT.
  - SEE SPECIFICATIONS FOR REQUIREMENTS FOR PIPING, SPRINKLER HEADS, BACKFLOW PREVENTION, SUBMITTALS, ETC.
  - SEE SPECIFICATIONS AND PLAN NOTES FOR HAZARD CLASSIFICATIONS. ALL PIPING SHALL BE SIZED BY HYDRAULIC CALCULATIONS.
  - ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 13 AND APPLICABLE BUILDING CODE REQUIREMENTS FOR SPRINKLERS.
  - COORDINATE ALL HEAD AND PIPE LOCATIONS WITH THE WORK OF OTHER TRADES. VERIFY ALL CEILING CONDITIONS. COORDINATION DOES NOT MEAN "I WAS HERE FIRST".
  - THE CONTRACTOR SHALL INSTALL A COMPLETE AND OPERABLE SYSTEM TO PROTECT THE BUILDING AS INDICATED, WHETHER OR NOT EVERY ELEMENT REQUIRED IS SPECIFICALLY CALLED OUT.
  - CONTRACTOR SHALL SUBMIT SPRINKLER SYSTEM DRAWINGS IDENTIFIED AS "WORKING PLANS", PREPARED ACCORDING TO NFPA 13. SUBMIT REQUIRED NUMBER OF SETS TO AUTHORITY HAVING JURISDICTION FOR REVIEW, COMMENT AND APPROVAL. INCLUDE SYSTEM HYDRAULIC CALCULATIONS, WORKING PLANS AND HYDRAULIC CALCULATIONS SHALL BE SEALED BY A ILLINOIS REGISTERED PROFESSIONAL ENGINEER, DO NOT SUBMIT UNSEALED DRAWINGS, AS THEY WILL BE REJECTED.
  - DO NOT INSTALL THE FIRE SERVICE OR ANY SPRINKLER SYSTEM PIPING UNTIL THE SPRINKLER SHOP DRAWINGS AND HYDRAULIC CALCULATIONS ARE APPROVED, BY THE FOLLOWING:  
\* OWNER \* ENGINEER \* CODE OFFICIALS
  - INSTALL SEISMIC BRACING ON ALL NEW FIRE SPRINKLER PIPING AS REQUIRED BY NFPA 13 AND LOCAL CODES. PROJECT IS IN A ZONE OF 40-80% SEISMIC HAZARD. INCLUDE SEISMIC BRACING IN SPRINKLER SHOP DRAWING SUBMITTALS.

SPRINKLER SYSTEM DESIGN CRITERIA				
AREA OF PROJECT	DENSITY (GPM/SF)	OVER MOST REMOTE AREA (SF)	MAXIMUM AREA PER SPRINKLER (SF)	HOSE ALLOWANCE (GPM)
OFFICE AREAS RETAIL AREAS CORRIDORS	0.10	1,500 NOTE 1	225	100
STORAGE, DOCKS	0.15	1,500 NOTE 1	130	250
KITCHEN	0.15	1,500 NOTE 1	130	250

NOTES:  
1. OPERATION AREA MAY BE REDUCED BY USING QUICK-RESPONSE SPRINKLERS IN ACCORDANCE WITH NFPA 13 PROVISIONS.

SPRINKLER LEGEND	
—FS—	FIRE SERVICE (BELOW GRADE)
—FPM—	FIRE PROTECTION MAIN
—FP—	FIRE PROTECTION BRANCH PIPING
—DP—	DRY SYSTEM BRANCH PIPING
⊙	UPRIGHT OR RECESSED PENDANT SPRINKLER HEAD AS REQUIRED BY CEILING
—	SIDEWALL SPRINKLER HEAD
■	NORMALLY OPEN MANUAL BALL VALVE
⊕	SPRINKLER SYSTEM ALARM BELL
Y	SIAMESE FIRE DEPARTMENT CONNECTION

PARTIAL UPPER LEVEL PLAN  
SCALE: 1/8"=1'-0"

GROUND FLOOR FIRE PROTECTION PLAN  
SCALE: 1/8"=1'-0"

Revisions

Date

CONSULTANTS:

SGE

SMITH-GOTH ENGINEERS, INC.

EXPERIENCE. FORWARD-THINKING.

3855 S. JEFFERSON AVE.  
SPRINGFIELD, MO 65807  
P: 417-882-2200  
F: 417-882-1188  
WWW.SMITHGOTH.COM  
ILLINOIS CERTIFICATE OF AUTHORITY NO. 184.006101

REGISTERED PROFESSIONAL ENGINEER

NORMAN E. GOTH

NUMBER 062-051123

2/29/15

ARCHITECT/ENGINEERS:

MAK ARCHITECTS, INC.

ARCHITECTURE • PLANNING • INTERIOR DESIGN

8328-R Olive Boulevard., St. Louis, Missouri 63132  
mak@makarchitects.com www.makarchitects.com  
314-997-3802 314-993-3761 (Fax)

Drawing Title

BLDG. #2 - GROUND FLOOR FIRE PROTECTION PLAN

Approved Project Director

Project Title

CONSTRUCT NEW DIETETICS  
DEPARTMENT OF VETERAN AFFAIRS  
MEDICAL CENTER

Location  
2401 WEST MAIN STREET, MARION, IL 62959

Date  
12-29-2015

Checked  
D.L.S.

Drawn  
J.J.W.

Project Number  
657A5-10-101

Building Number  
Building #2

Drawing Number  
FP1  
Dwg 7 of 21

Office of Construction and Facilities Management  
Department of Veterans Affairs

CONTRACT DOCUMENTS

REPRODUCTION PROHIBITED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE DESIGN PROFESSIONAL. COPYRIGHT 2015 - DESIGNS, DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF THE DESIGN PROFESSIONAL.