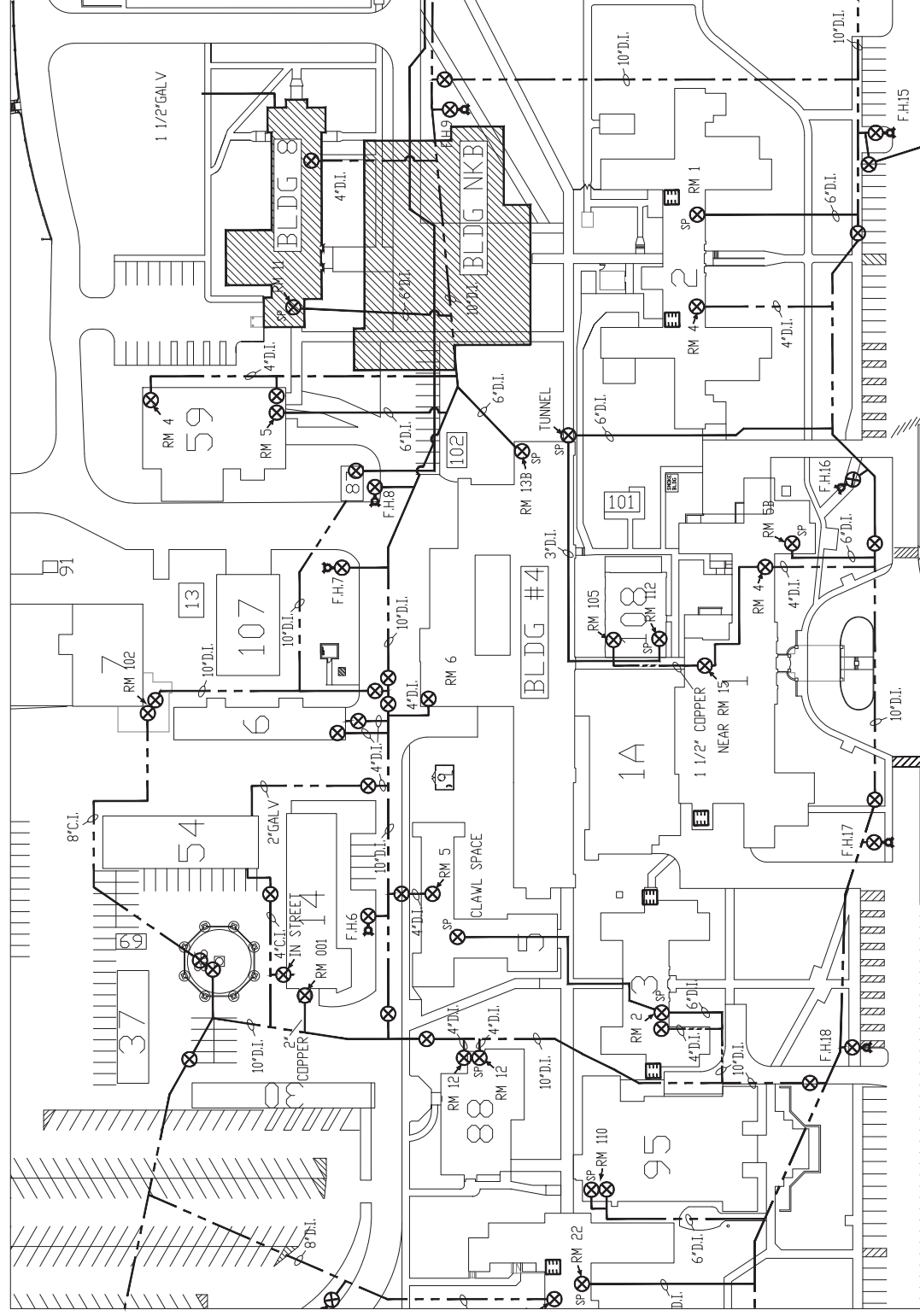
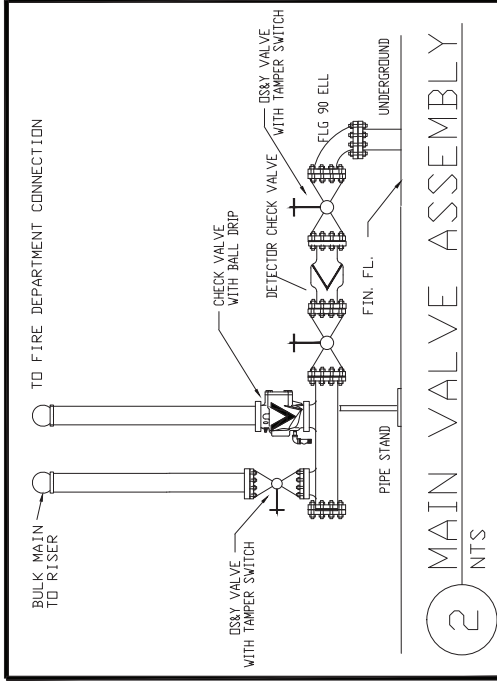
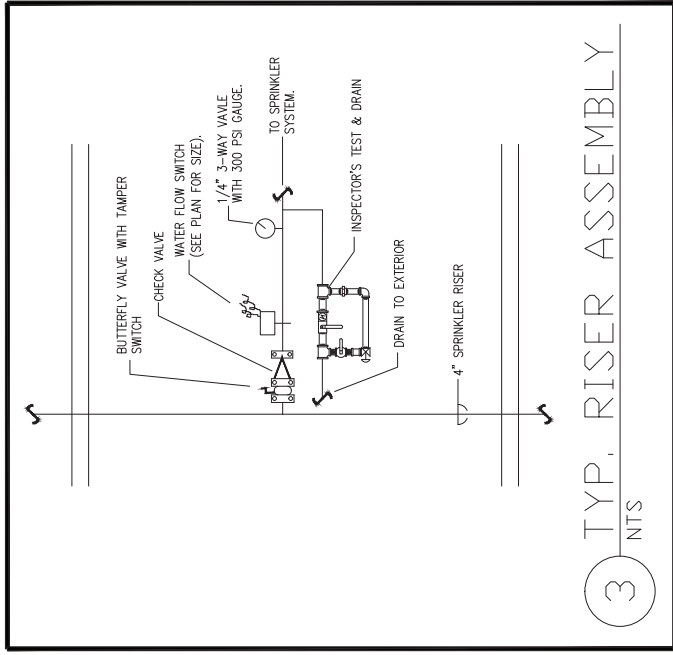
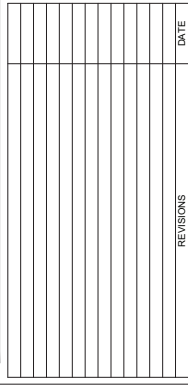


4 BUILDING NKB - NORTH/SOUTH BUILDING SECTION



1 BUILDING NKB SITE PLAN



## PROJECT TEAM

**ARCHITECTURAL**  
HDR Architecture, Inc.  
485 Plaza  
444 Clear St  
Suite 1900  
St. Paul, MN 55101  
www.hdrinc.com  
612-521-6000

**MECHANICAL/ELECTRICAL/PLUMBING**  
HDR Architecture Inc.  
8401 Union Hill Dr  
Omaha, NE 68144-0098  
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402-985-1000

**STRUCTURAL**  
HDR Architecture Inc.  
8401 Union Hill Dr  
Omaha, NE 68144-0098  
www.hdrinc.com  
402-985-1000

**CIVIL / SURVEYOR**  
Anderson Engineering of MN  
1360 S - 1st Avenue North  
Suite 100  
Plymouth, MN 55441  
<http://www.ae-mn.com>  
763-412-4000

COMMISSIONING AGENCY:  
Engineering Design Initiative  
1112 North 5th Street  
Minneapolis, MN 55411  
www.edimad.com  
612-343-5965

**ENVIRONMENTAL SERVICES:**  
ENR Incorporated  
5301 E. River Road  
Suite 114  
Minneapolis, MN 55421  
www.enr-inc.com  
763-277-3200

**FOODSERVICE DESIGN:**  
**ROBERT RIPPE & ASSOCIATES, INC.**  
 6117 BLUE OIRCLE, SUITE 100  
 Minneapolis, MN 55343-9706  
[www.rrippe.com](http://www.rrippe.com)  
 952-933-0313

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HDR  
HDR Architecture, Inc.

Approved: Projected

FIRE

## PROTECTION DETAILS

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EXP C/	Location 4801 V/	Points

AND PRIMARY ARE/RECONFIGURED SPAC

AND SPECIALTY  
RE SUPPORT  
E

000-0217 100000	<b>NKB</b>	
Building Number		Drawing number

[illegible]

# 100% CONSTRUCTION DOCUMENTS

## GENERAL NOTES

1. FIRE PROTECTION CONTRACTOR'S SCOPE OF WORK INCLUDES: BASEMENT LEVEL, FIRST LEVEL, AND THE ROOF OF THE NEW KITCHEN BUILDING AND A SELECT PORTION OF BUILDING 4 FIRST FLOOR - AS SPECIFIED BY THE ARCHITECT OF RECORD. IN ADDITION, FIRE DEPARTMENT CONNECTION RE-ROUTING IN BUILDING 4 IS INCLUDED.
2. CONFIRMATION OF THE FINAL INSTALLED DESIGN (VIA SHOP DRAWINGS, HYDRAULIC CALCULATIONS, PRODUCT SUBMITTAL, ETC.) IS THE SOLE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR.
3. PROVIDE SPRINKLER COVERAGE IN ALL AREAS IN ACCORDANCE WITH NFPA 13 (2007 EDITION), UNLESS NOTED OTHERWISE.
4. SPRINKLER COVERAGE IS LIMITED TO AREAS WITHOUT CEILINGS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
5. ALL STORAGE ROOMS ARE CONSIDERED TYPICAL STORAGE ROOMS, INCLUDING NO OTHER HAZARDS\*\* (I.E. CHEMICALS, ETC.)
6. MINIMUM 18" CLEARANCE REQUIRED BETWEEN SPRINKLER DEFLECTOR AND TOP OF STORAGE AND OBSTRUCTIONS IN ALL AREAS.
7. ALL SYSTEM COMPONENTS, UNLESS NOTED OTHERWISE SHALL BE PER PROJECT SPECIFICATIONS.
8. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL ELEMENTS AND ANY ADDITIONAL SPRINKLERS REQUIRED PER NFPA 13 (2007) TO AVOID OBSTRUCTIONS OR PROVIDE ADEQUATE COVERAGE ABOVE AND BELOW ALL OBSTRUCTIONS WHETHER INDICATED OR NOT. FIELD VERIFY ALL LOCATIONS WITH ACTUAL FIELD CONDITIONS.
9. SHOP DRAWINGS SHALL BE APPROVED BY OWNER'S DESIGNATED REPRESENTATIVE PRIOR TO FABRICATION.
10. ALL COMPONENTS OF THE SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 13 (2007), 25 (2008), 72 (2007), NFPA 101 (2009), PROJECT SPECIFICATIONS, AND THE U.S. MEDICAL CENTER REQUIREMENTS.
11. THE TYPE OF KITCHEN SPRINKLER TYPING SHALL BE IN ACCORDANCE WITH NFPA 13 (2007) PER PROJECT SPECIFICATIONS.
12. TAMPER SWITCHES AND FLOW SWITCHES ARE FURNISHED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR AND WIRED PER NFPA 13 (2007).
13. HANG ALL BRANCH LINE AND MAIN PIPING PER NFPA 13 (2007).
14. INSTALLATION SHALL BE IN ACCORDANCE WITH THE DESIGN DRAWINGS WITH SHOP DRAWING MODIFICATIONS FOR COORDINATION AND FABRICATION PURPOSES ONLY.
15. HIGH TEMPERATURE SPRINKLERS SHALL BE INSTALLED NEAR ALL HEAT PRODUCING EQUIPMENT IN ACCORDANCE WITH SECTION 8.3.2.5 OF NFPA 13 (2007).
16. SPRINKLERS ARE NOT REQUIRED IN NON-ACCESSIBLE VERTICAL MECHANICAL OR ELECTRICAL SHAFTS, PER SECTION 8.4.5.2.1.2 OF NFPA 13 (2007).
17. LOW POINTS IN THE SPRINKLER SYSTEM SHOULD BE CONNECTED WHERE PRACTICAL. THE AUXILIARY DRAIN VALVE SHALL BE ACCESSIBLE FROM THE FINISHED FLOOR AND PIPED TO FACILITY EXTERIOR. DRAINS SHALL HAVE CONCRETE SPLASH BLOCK OR SIMILAR METHOD TO CONTROL RUNOFF AND EROSION AT THE FACILITY EXTERIOR.
18. CONTRACTOR SHALL INDICATE ALL PIPE SUPPORTS AND LOCATIONS IN ACCORDANCE WITH NFPA 13 (2007) AND NFPA 25 (2008) SPRINKLER SYSTEM REQUIREMENTS. SPRINKLER SYSTEMS SHALL BE MAINTAINED AT 40 DEGREES FAHRENHEIT TEMPERATURE, MAINTAINED GREATER THAN OR EQUAL TO 40 DEGREES FAHRENHEIT AT ALL TIMES, AT THE RESPONSIBILITY OF THE OWNER.
20. APPROXIMATE SIZE:
  - a. KITCHEN BASEMENT: 19,500 FT<sup>2</sup>
  - b. KITCHEN FIRST FLOOR: 21,900 FT<sup>2</sup>
21. STEEL SPRINKLER PIPE SCHEDULE 40 FLANGED OR THREADED REQUIRED IN ALL AREAS. GROVED FITTINGS OR COUPLINGS ARE NOT ALLOWED PER VA STANDARDS.
22. COORDINATION:
  - a. COORDINATION WITH NFPA 25 (2008) NFPA 72 (2007), NFPA 101 (2009), EDITIONS AS REFERENCED BY THE 2009 EDITION OF NFPA 101.
23. ALL PENETRATIONS AT FIRE WALLS, FIRE BARRIERS AND SMOKE BARRIERS (OR OTHER RATED ASSEMBLIES) REQUIRED TO BE SEALED WITH APPROVED MEANS. SEE ARCHITECTURAL CODE PLANS FOR LOCATIONS OF ALL RATED ASSEMBLIES.
24. FIRE PROTECTION CONTRACTOR TO VERIFY THE ACCURACY OF THE BUILDING PLANS AND SPECIFICATIONS WITH THE DESIGN TEAM AND ACTUAL FIELD CONDITIONS, PRIOR TO BID. MODIFICATIONS REQUIRED TO THE BUILDING PLANS AND SPECIFICATIONS SHALL BE IDENTIFIED AND DISCUSSED WITH THE DESIGN TEAM PRIOR TO DATE. PRIOR TO THE BID DATE. REQUIRED CLARIFICATIONS SHALL BE SUBMITTED TO THE DESIGN TEAM PRIOR TO THE BID DATE.
25. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR VERIFYING IF ADDITIONAL SPRINKLER PROTECTION SHALL BE INSTALLED UNDER DUCT WORK. FIRE PROTECTION CONTRACTOR SHALL INSTALL ADDITIONAL SPRINKLER PROTECTION WHERE REQUIRED BY NFPA 13 (2002).

WATER FLOW INFO	
STATIC:	51 PSI
RESIDUAL:	47 PSI
FLOW:	1,101 GPM
DATE:	5/04/10
LOCATION:	HYDRANT #8 ADJACENT TO BUILDING #4

I hereby certify that this plan, specification, or report was prepared by me or under the direct supervision and that I am a duly Licensed Professional Engineer under the law of the State of Minnesota.

Signature: \_\_\_\_\_  
Print Name: Ryan Bierwerth  
Date: 12-09-11 License No. 43114