

- LEGEND**
- EXISTING PIPE
  - NEW PIPE
  - ◇ PIPE HANGER
  - ✕ EXISTING SPRINKLER. REPLACE HEAD WITH NEW AND ADJUST TO ACCOMMODATE CEILING AS REQUIRED.
  - NEW PENDENT SPRINKLER IN NEW LOCATION.
  - PENDENT SPRINKLER (NEW)
  - ◁ SIDEWALL SPRINKLER (NEW LOCATION, NEW HEAD)
  - ⊙ ABOVE CEILING SPRINKLER (UPRIGHT, EXISTING)
  - ⊙ HYDRAULIC NODE
  - ⊔ PIPE CAP

- KEYED SHEET NOTES**
- 1 CAP OR PLUG FITTING OR PIPE AT POINT OF DISCONNECT OR USE FOR NEW SPRINKLER TO BE CONNECTED TO BRANCH.
  - 2 MAKE NEW CONNECTION TO BRANCH AND RUN OUT TO NEW SPRINKLER.
  - 3 PIPES REPRESENTED BY DASHED LINES ARE EXISTING ON 1ST FLOOR. SURVEY PIPE ROUTING AND SIZES AND DOCUMENT IN ANTICIPATION OF SHOP DRAWING AND HYDRAULIC CALCULATION GENERATION.
  - 4 POINT OF NEW CONNECTION. ROUTE 4" PIPE TO COMMON FP PIPING SERVING SUPPLY SIDE OF SPRINKLER RISERS/FLOOR CONTROLS.
  - 5 FLOOR CONTROL ASSEMBLY. SEE DETAIL ON SHEET SP-205.02.
  - 6 NEW TEST AND DRAIN ASSEMBLY. ROUTE DISCHARGE TO COMMON DRAIN PIPE THEN OUTSIDE BUILDING TO SPILL ON GRADE THROUGH A TURNED DOWN 45° FITTING. ALL DRAIN PIPE SHALL BE GALVANIZED STEEL PER NFPA 13R 6.6.3.2.
  - 7 INSTALL COUPLING AND EXTEND SPRINKLER TAKEOFF TO NEW LOCATION AS SHOWN.
  - 8 RISER SHOWN IN THIS LOCATION FOR CLARITY. THE RISER IS IN THE COLUMN ENCLOSURE.
  - 9 EXISTING 3" BACKFLOW PREVENTER AND ALARM CHECK VALVE.
  - 10 COORDINATE WITH MECHANICAL AND ELECTRICAL EQUIPMENT IN THE ROOM AND PROVIDE 150 FOOT MAXIMUM COVERAGE AREA PER SPRINKLER.
  - 11 MAKE CONNECTION TO NEW COMMON FIRE PROTECTION MAIN SERVING SPRINKLER RISERS IN STAIRS.
  - 12 DESIGN AREA. SEE HYDRAULIC DESIGN DATA SUMMARY BOX THIS SHEET.
  - 13 USE INTERMEDIATE TEMPERATURE SPRINKLERS IN THE KITCHEN.
  - 14 FLOW SWITCH
  - 15 TAMPER SWITCH
  - 16 LIGHT DASHED LINE REPRESENTS EXISTING PIPE. (TYP.)
  - 17 DARK SOLID LINES REPRESENT NEW PIPE. (TYP.)
  - 18 MAIN DRAIN PIPE.

- GENERAL NOTES**
1. MUCH OF THE PIPE AND SPRINKLERS SHOWN ON THIS PLAN ARE EXISTING AND ARE TO BE MODIFIED BY THE FIRE PROTECTION CONTRACTOR TO MEET THE REQUIREMENTS OF THE NEW FLOOR PLAN. ADJUST THE LENGTHS OF ALL PIPE SERVING AS SPRINKLER DRIPS TO ACCOMMODATE THE ELEVATION OF THE FINISHED CEILING.
  2. ALL RUNOUTS TO INDIVIDUAL SPRINKLERS AND ANY PIPE NOT EXPLICITLY CALLED OUT OTHERWISE IS 1" SCHEDULE 40 WITH THREADED PIPE FITTINGS.

**HYDRAULIC DESIGN DATA (2) REMOTE AREA 1**

AFJ - NEW YORK CITY BUILDING DEPARTMENT PLANS EXAMINERS
DESIGN STANDARD - MFC 18-000-00-01
PIPE TYPE - MAIN - SCHEDULE 40 BLACK
PIPE TYPE - BRANCH - STEEL SCHEDULE 40 BLACK STEEL
SPRINKLER ORIFICE - 1/2" - K FACTOR 5.5
AREA LOCATION - FIRST FLOOR
NO. OF FLOWING SPRINKLERS: 12 (DINING MEETING) AND KITCHEN SPACE. DENSITY: 0.10 GPM/PER SQ. FT
REMOTE AREA: 996 SQ. FT.
DEMAND AT BASE OF RISER (BOR):
FLOW: 185.4 GPM
PRESSURE: 23.6 PSI
INSIDE HOSE STREAM: 0 GPM
DEMAND AT SOURCE CONNECTION:
FLOW: 288.4 GPM
PRESSURE: 27.4 PSI
OUTSIDE HOSE STREAM: 100 GPM

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**NOTE TO ARCHITECT OR ENGINEER**

NO.	DATE	DESCRIPTION
1	02/28/18	FOR APPROVAL

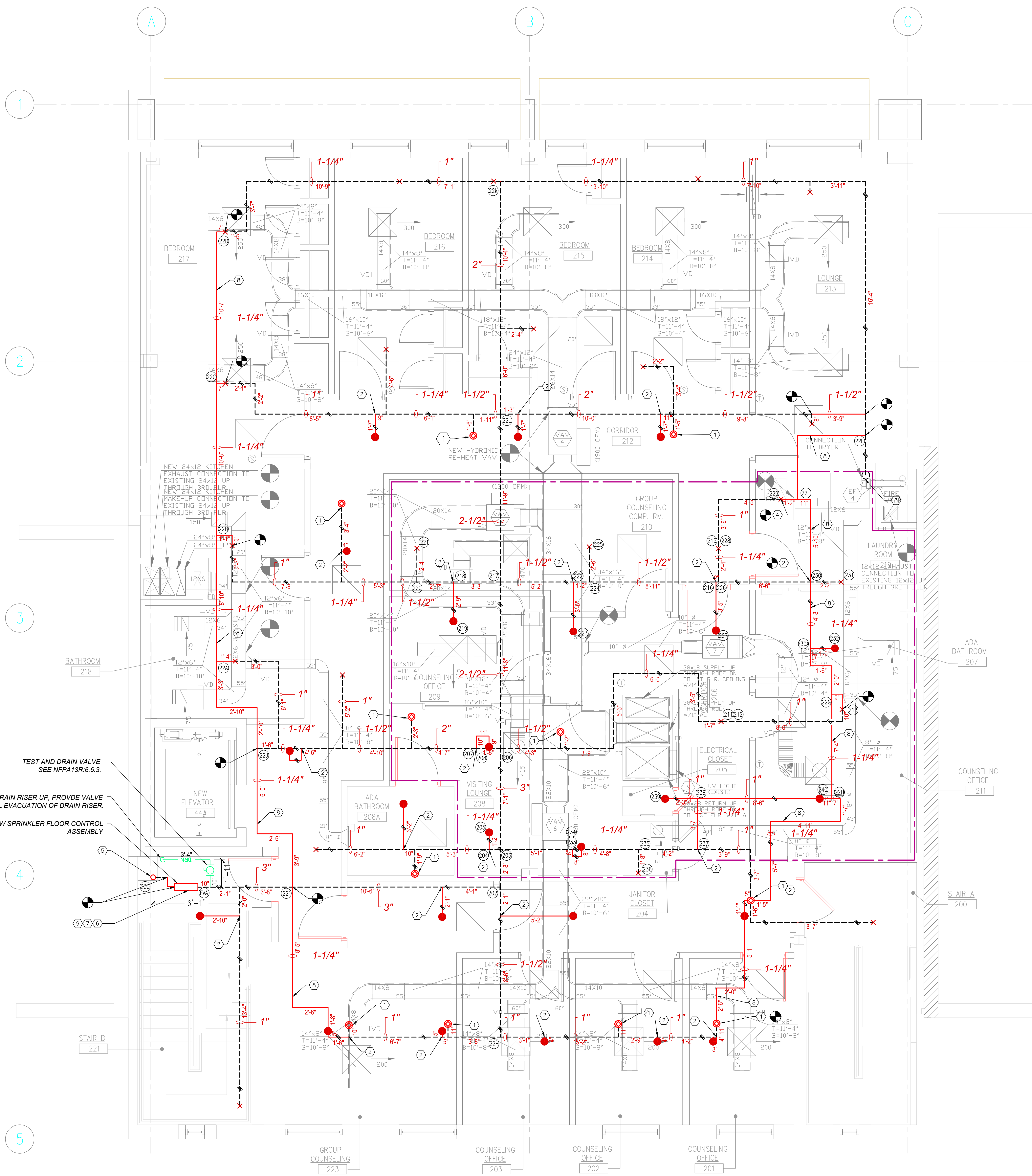
SPRINKLER CONTRACTOR:  
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DRAFTING COMPANY:  
**Professional Drafting Services**  
 Certified / Insured CAD Specialists  
 Marc W. Hoffman  
  
 167 Allen Road  
 Rockville Centre NY, 11570  
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 Email: CaddSultant@gmail.com

DRAWING NAME:  
**GROUND FLOOR  
 SPRINKLER  
 INSTALLATION PLAN**

PROJECT INFORMATION:  
**SERENDIPITY II  
 INTENSIVE RESIDENTIAL FACILITY  
 944 BEDFORD AVE  
 BROOKLYN, NY 11205**

Drawn By: CZ    Chkd By: MH  
 Scale: 3/8"=1'-0"    Date: 02/28/18    Drawing Number  
**PAGE-36x48 SP-201**



- LEGEND**
- EXISTING PIPE
  - NEW PIPE
  - ▲ PIPE HANGER
  - ✕ EXISTING SPRINKLER, REPLACE HEAD WITH NEW AND ADJUST TO ACCOMMODATE CEILING AS REQUIRED.
  - NEW PENDENT SPRINKLER IN NEW LOCATION.
  - PENDENT SPRINKLER (NEW)
  - ◁ SIDEWALL SPRINKLER (NEW LOCATION, NEW HEAD)
  - ⊙ ABOVE CEILING SPRINKLER (UPRIGHT, EXISTING)
  - ⊙ HYDRAULIC NODE.
  - ⊥ PIPE CAP.
- KEYED SHEET NOTES**
- 1 ABOVE CEILING SPRINKLERS ONLY.
  - 2 MAKE NEW CONNECTION TO BRANCH
  - 3 EXISTING INSPECTORS TEST AND DRAIN FITTING. ROUTE TO DRAIN. SEE PLUMBING DRAWING.
  - 4 SPRINKLER BELOW CEILING ONLY
  - 5 INSTALL COUPLING AND EXTEND SPRINKLER TWEEDIT TO NEW LOCATION AS SHOWN.
  - 6 NEW SPRINKLER 4" RISER FROM FIRST FLOOR. EXTEND UP TO THIRD FLOOR.
  - 7 FLOW SWITCH
  - 8 TAMPER SWITCH
  - 9 NEW 1-1/4" CROSS CONNECTION TO IMPROVE HYDRAULICS
  - 10 FLOOR CONTROL ASSEMBLY. SEE DETAIL ON SP-205.02
  - 11 POINT OF NEW CONNECTION.

- GENERAL NOTES**
1. EXISTING SPRINKLERS SHOWN ON THIS DRAWING ARE AN ARRANGEMENT OF A CONCEALED HEAD BELOW AND UPRIGHT HEAD ABOVE THE CEILING. LEAVE ALL ABOVE CEILING SPRINKLERS IN PLACE. MOVE AND ADD SPRINKLERS PROVIDING COVERAGE BELOW THE CEILING AS REQUIRED TO PROTECT THE SPACES AFTER FIT-OUT. PROVIDE ADDITIONAL HEADS ABOVE CEILING TO COMPENSATE FOR COVERAGE DEFICIENCIES FOUND IN THE FIELD WHEN THE CEILING IS REMOVED WHERE NEW PARTITIONS THAT EXTEND TO THE STRUCTURAL CEILING ARE ADDED.
  2. MUCH OF THE PIPE AND SPRINKLERS SHOWN ON THIS PLAN ARE EXISTING AND ARE TO BE MODIFIED BY THE FIRE PROTECTION CONTRACTOR TO MEET THE DEMAND AND SPACING REQUIREMENTS OF THE NEW FLOOR PLAN. EXTEND OR CUT BACK PIPE DROPS AS REQUIRED TO MEET NEW CEILING ELEVATIONS OF SURFACE MOUNTED FIXTURES ON THE CEILING. SOME SPRINKLER MODIFICATIONS ARE SHOWN ON THE PLAN. THE CONTRACTOR SHALL COORDINATE WITH THE DRAWINGS OF THE OTHER TRADES AND THE CONDITIONS ENCOUNTERED IN THE FIELD AND PROVIDE ADDITIONAL SPRINKLERS EFFECTING FULL SPRINKLER PROTECTION ABOVE AND BELOW CEILING.

- ADDITIONAL GENERAL NOTES (APPLY TO ALL SHEETS)**
1. IN GENERAL, TO COMPLY WITH NFPA 13R, SECTION 6.7.1.3, RESIDENTIAL SPRINKLERS SHALL BE SPACED BETWEEN 8'-0" MINIMUM AND 12'-0" MAXIMUM AND A MAXIMUM OF 6'-0" FROM ANY WALLS OR PARTITIONS UNLESS SPECIALLY LISTED FOR ALTERNATE SPACING BY THE MANUFACTURER. APPLIES TO ALL SHEETS, ALL RESIDENTIAL SPRINKLERS.
  2. CAP OPEN PIPE AND RETURN SYSTEM TO SERVICE AT THE END OF EACH WORKDAY. NOTIFY LOCAL FIRE DEPARTMENT OF SYSTEM IMPAIRMENT—DAILY. PROVIDE TEMPORARY SPRINKLER INSTALLATION AND COMPARTMENTATION AS REQUIRED BY NYC BUILDINGS BULLETIN 2012-009. [http://www.nyc.gov/html/2009/downloads/2009\\_0002/bulletin/bul\\_2012\\_009.pdf](http://www.nyc.gov/html/2009/downloads/2009_0002/bulletin/bul_2012_009.pdf)

**HYDRAULIC DESIGN DATA** REF: AREA 2

AWI - NEW YORK CITY BUILDING DEPARTMENT PLANS EXAMINER
DESIGN STANDARD - NFPA 13R-2002 3RD. EDITION
PIPE TYPE - MAIN - SCHEDULE 40 BLACK
PIPE TYPE - BRANCH - STEEL SCHEDULE 40 BLACK STEEL
SPRINKLER ORIFICE - 1/2" K = 5.6
AREA LOCATION: COUNSELING/ VISITING AREA SECOND FLOOR
NO. OF FLOWING SPRINKLERS: 17
DENSITY: 0.10 GPM PER SQ. FT.
REMOTE AREA: 992 SQ. FT. (SEE AREA 200-201-202)
DEMAND AT BASE OF RISER (BOR):
FLOW: 273.7 GPM
PRESSURE: 160.1 PSI
INSIDE HOSE STREAM: 0 GPM
DEMAND AT SOURCE CONNECTION:
FLOW: 375.7 GPM
PRESSURE: 43.5 PSI
OUTSIDE HOSE STREAM: 100 GPM

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**NOTE TO ARCHITECT OR ENGINEER**

NO.	DATE	DESCRIPTION
1	02/28/18	FOR APPROVAL

SPRINKLER CONTRACTOR:

**Light House Designs Inc.**

Deer Park, NY 11729  
631-392-1944  
lighousedesigns@gmail.com

DRAFTING COMPANY:

Professional Drafting Services  
Certified / Insured CAD Specialists  
Marc W. Hoffman

**CAD/SUBMITTANTS LLC**

167 Allen Road  
Rockville Centre NY, 11570  
Contact: 646.641.2512  
Email: [Caddsubmittant@gmail.com](mailto:Caddsubmittant@gmail.com)

**DRAWING NAME:**

**SECOND FLOOR  
SPRINKLER  
INSTALLATION PLAN**

**PROJECT INFORMATION:**

**SERENDIPITY II  
INTENSIVE RESIDENTIAL FACILITY  
944 BEDFORD AVE  
BROOKLYN, NY 11205**

Drawn By: CZ    Chkd By: MH  
Scale: 3/8"=1'-0"    Date: 02/28/18    Drawing Number

**PAGE-36x48    SP-202**



- LEGEND**
- NEW PIPE
  - PIPE HANGER
  - PENDENT SPRINKLER (NEW)
  - ⊗ HYDRAULIC NODE
  - ▲ PIPE CAP

- SHEET NOTES**
- 1 FLOW SWITCH
  - 2 TAMPER SWITCH
  - 3 FLOOR CONTROL ASSEMBLY; SEE DETAIL ON SHEET SP-205.02

TEST AND DRAIN VALVE  
SEE NFPA 13R.6.6.3

TEST AND DRAIN RISER  
SPRINKLER FLOOR  
CONTROL ASSEMBLY

4\"/>

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**NOTE TO ARCHITECT OR ENGINEER**

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SPRINKLER CONTRACTOR:  
**Light House Designs Inc.**  
Deer Park, NY 11729  
631-392-1944  
lighousedesigns@gmail.com

DRAFTING COMPANY:  
Professional Drafting Services  
Certified / Insured CAD Specialists  
Marc W. Hoffman  
**CAD S U L T A N T S L L C**  
167 Allen Road  
Rockville Centre NY, 11570  
Contact: 646.641.2512  
Email: Caddstulant@gmail.com

DRAWING NAME:  
**THIRD FLOOR  
SPRINKLER  
INSTALLATION PLAN**

PROJECT INFORMATION:  
**SERENDIPITY II  
INTENSIVE RESIDENTIAL FACILITY  
944 BEDFORD AVE  
BROOKLYN, NY 11205**

Drawn By: CZ    Chkd By: MH  
Scale: 3/8"=1'-0"    Date: 02/28/18    Drawing Number



- LEGEND**
- NEW PIPE
  - PIPE HANGER
  - PENDENT SPRINKLER (NEW)
  - ⊙ HYDRAULIC NODE
  - ⊠ PIPE CAP

- KEYED SHEET NOTES**
- ① FLOW SWITCH
  - ② TAMPER SWITCH
  - ③ FLOOR CONTROL ASSEMBLY. SEE DETAIL ON SHEET SP-205.02

**HYDRAULIC DESIGN DATA**

AHJ: NEW YORK CITY BUILDING DEPARTMENT PLANS EXAMINER  
 DESIGN STANDARD: NFPA 13-2012 SIGN. 8.1  
 PIPE TYPE - MAIN: SCHEDULE 40 BLACK  
 PIPE TYPE - BRANCH: STEEL SCHEDULE 40 BLACK STEEL  
 SPRINKLER ORIFICE: 7/16" K: 4.9

AREA LOCATION: BEDROOM 410  
 NO. OF FLOWING SPRINKLERS: 4  
 DENSITY PER LISTING FOR 10' BRANCH GPM PER SQ.FT. N/A  
 REMOTE AREA: 354 SQ.FT. (MINIMUM AREA = 3000 SQ. FT. + 100% INCREASE)

DEMAND AT BASE OF RISER (BOR):  
 FLOW: 20.3 GPM  
 PRESSURE: 41.7 PSI  
 INSIDE HOSE STREAM: 0 GPM

DEMAND AT SOURCE CONNECTION:  
 FLOW: 170.3 GPM  
 PRESSURE: 47.7 PSI  
 OUTSIDE HOSE STREAM: 100 GPM

TEST AND DRAIN VALVE  
SEE NFPA13R.6.6.3

TEST AND DRAIN RISER  
4" SPRINKLER RISER FROM BELOW.  
EXTEND UP TO ROOF LEVEL.

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**NOTE TO ARCHITECT OR ENGINEER**

DUCT ELEVATIONS SHOULD BE REVISED.  
PIPE ELEVATIONS SHALL BE DETERMINED THEREAFTER.

NO.	DATE	DESCRIPTION
1	02/28/18	FOR APPROVAL

SPRINKLER CONTRACTOR:

**Light House Designs Inc.**  
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 631-392-1944  
 lighousedesigns@gmail.com

DRAFTING COMPANY:

Professional Drafting Services  
 Certified / Insured CAD Specialists  
 Marc W. Hoffman

**CAD SULTANTS LLC**

167 Allen Road  
 Rockville Centre NY, 11570  
 Contact: 646.641.2512  
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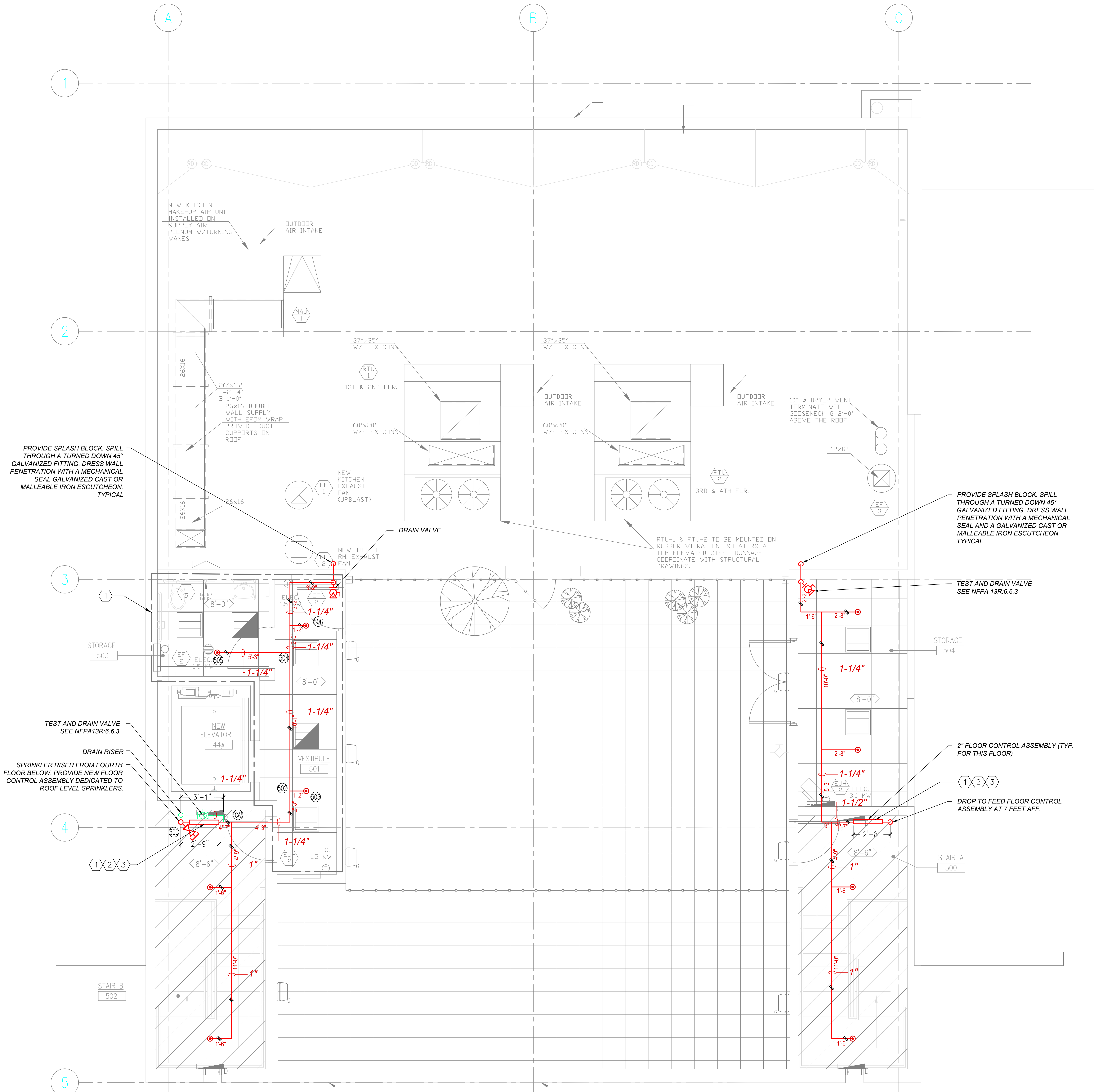
**DRAWING NAME:**

**FOURTH FLOOR  
 SPRINKLER  
 INSTALLATION PLAN**

**PROJECT INFORMATION:**

**SERENDIPITY II  
 INTENSIVE RESIDENTIAL FACILITY  
 944 BEDFORD AVE  
 BROOKLYN, NY 11205**

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PROVIDE SPLASH BLOCK. SPILL THROUGH A TURNED DOWN 45° GALVANIZED FITTING. DRESS WALL PENETRATION WITH A MECHANICAL SEAL GALVANIZED CAST OR MALLEABLE IRON ESCUTCHEON. TYPICAL

TEST AND DRAIN VALVE SEE NFPA 13R.6.6.3

DRAIN RISER SPRINKLER RISER FROM FOURTH FLOOR BELOW. PROVIDE NEW FLOOR CONTROL ASSEMBLY DEDICATED TO ROOF LEVEL SPRINKLERS.

PROVIDE SPLASH BLOCK. SPILL THROUGH A TURNED DOWN 45° GALVANIZED FITTING. DRESS WALL PENETRATION WITH A MECHANICAL SEAL AND A GALVANIZED CAST OR MALLEABLE IRON ESCUTCHEON. TYPICAL

TEST AND DRAIN VALVE SEE NFPA 13R.6.6.3

2" FLOOR CONTROL ASSEMBLY (TYP. FOR THIS FLOOR)

DROP TO FEED FLOOR CONTROL ASSEMBLY AT 7 FEET AFF.

- KEYED SHEET NOTES**
- ① FLOOR CONTROL ASSEMBLY. SEE DETAIL ON THIS SHEET
  - ② 1-1/2" FLOW SWITCH
  - ③ 1-1/2" BUTTERFLY VALVE WITH TAMPER SWITCH

**HYDRAULIC DESIGN DATA** (SEE SHEET ANEX. 4)

AWI - NEW YORK CITY BUILDING DEPARTMENT PLANS EXAMINER

DESIGN STANDARD - NFPA 13R-2012 SIB. 8.1

PIPE TYPE - MAIN - SCHEDULE 40 BLACK

PIPE TYPE - BRANCH - STEEL SCHEDULE 40 BLACK STEEL

SPRINKLER ORIFICE - 1/2" K = 5.6

AREA LOCATION: LOBBY/VESTIBULE/STAIR AREA SECOND FLOOR

NO. OF FLOWING SPRINKLERS: 3

DENSITY: 0.1 GPM/50 FT<sup>2</sup> GPM PER 50 FT<sup>2</sup> IN/A

REMOTE AREA: 150 SQ. FT. (SEE SHEET ANEX. 4)

DEMAND AT BASE OF RISER (BOR):

FLOW: 45.8 GPM

PRESSURE: 42.3 PSI

INSIDE HOSE STREAM: 0 GPM

DEMAND AT SOURCE CONNECTION:

FLOW: 145.8 GPM

PRESSURE: 43.1 PSI

OUTSIDE HOSE STREAM: 100 GPM

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**NOTE TO ARCHITECT OR ENGINEER**

DECK ELEVATION NOT PROVIDED. PIPE ELEVATIONS SHALL BE DETERMINED THEREAFTER.

NO.	DATE	DESCRIPTION
1	02/28/18	FOR APPROVAL

SPRINKLER CONTRACTOR:

**Light House Designs Inc.**

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DRAFTING COMPANY:

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**DRAWING NAME:**

**PENTHOUSE LEVEL (ROOF) SPRINKLER INSTALLATION PLAN**

**PROJECT INFORMATION:**

**SERENDIPITY II INTENSIVE RESIDENTIAL FACILITY**  
944 BEDFORD AVE  
BROOKLYN, NY 11205

Drawn By: CZ    Chkd By: MH  
Scale: 3/8"=1'-0"    Date: 02/28/18    Drawing Number