LSG Inc.

303 Jefferson Blvd, Warwick, RI 02888-3845
Phone: (401) 751-6131 – Fax: (401) 454-0059

October 26, 2011

Rhode Island Department of Administration
Attention: William Anderson, Deputy Chief
Division of Facilities Management
19 Foster Rd, PO Box 8268
Cranston, RI 02920

ph: (401) 462-3188; fax: (401) 462-3091
email: bill.anderson@doa.ri.gov

Ref: **Bulk sampling for asbestos and lead paint – fire protection upgrade project. Building 50 (Adolph Meyer), Pastore Center, Cranston, RI**

Dear Mr. Anderson:

The inspection and sampling services undertaken by **LSG** were related to the intended fire protection (FP) upgrade project for this building. We were requested to collect bulk samples from representative building materials that may be impacted by the FP project for analysis for asbestos (ASB).

No samples were collected from painted surfaces for analysis for total lead in paint (LP). It is assumed that the paint history is similar to that in the Louis Pasteur building and that the paints do contain lead.

No inspections and sampling were included for other materials such as PCB containing light fixture ballasts or caulks and Mercury in light tubes and thermostats. The only analyses included were for asbestos by **PLM**[1] – no sampling and laboratory analysis of any other materials or sample analysis by other methods, were included in the scope of work.

Inspection and sampling for suspect ASB materials were completed on October 13 and 20, 2011. We received a copy of the Wilkinson Associates Inc. fire protection drawings issued for construction FP-0.0 to FP-6.2 (17 drawings) 2010-09-21 on October 12, 2011.

INSPECTION AND SAMPLING - Asbestos

Visual inspection was conducted in representative locations of accessible project areas to identify types of materials suspected as containing asbestos.

Existing holes were identified in many areas and materials (such as walls and ceilings). Wetted samples were collected from loose materials at these locations rather than making new holes. These holes were used to evaluate the presence of suspect hidden **ACM**[2] in representative areas.

[1] **PLM** = Polarized Light Microscopy, EPA method 600/R-93/116
[2] **ACM** = Asbestos Containing Material, defined as any material containing more than one percent (>1%) asbestos.

Some hidden **ACM** materials may, however, only be discovered during renovation and demolition activities.

No spray applied fire proofing was identified on the underside of the steel and concrete ceiling slabs in representative areas inspected. It is not known if there is **ACM** spray applied fire proofing and associated fallen debris is present in other parts of the building as well as in the roof attic spaces in the building as there is in the Louis Pasteur building.

There are also known and presumed **ACM** pipe, pipe joint and tank insulation materials in many areas of the building, with some of these materials damaged and with fallen debris.

Caution must be exercised not to disturb any materials that do or may contain asbestos as disturbance is likely to create airborne fiber release. Disturbance may be caused by mechanical, air erosion, vibration, water damage, drilling, grinding, sanding or other means.

A total of **51** bulk samples were collected and submitted to the laboratory for analysis for asbestos by **PLM**. The samples were submitted to EMSL Analytical laboratory, a RI licensed analytical laboratory, for analysis for asbestos. The sample and analytical results are summarized in Table 1 below. The laboratory sample analysis results are attached. Drawings FP-2.2, 3.1, 4.1 and 4.2 were annotated with sample locations and copies are attached for reference.

Table 1 – Samples Collected for ASB

Sample #	ASB	Description	Location	DWG
1	**ND**	12”x 12” VFT[3] (beige with gray flecks)	1st floor – foyer off loading dock	FP-2.2
2	**ND**	Glue (beige) under #1 on concrete. Note – there was some black glue at the wall/floor corners under the VFT which may contain ASB but this black glue is not in the area where the concrete coring is likely to occur.	1st floor – foyer off loading dock	FP-2.2
3	**ND**	2’x 2’ SAT[4] ceiling panel (white, new, fissured pattern) - below suspended plaster ceiling	1st floor – AM-10 – corridor at room 4	FP-2.2
4	**ND**	Grout (gray) between CWT[5]	1st floor – AM-10 – corridor opp. room 4	FP-2.2
5	**ND**	Setting bed cement (dark gray) under CWT	1st floor – AM-10 – corridor opp. room 4	FP-2.2
6	**ND**	Wall plaster (light gray) under #5	1st floor – AM-10 – corridor opp. room 4	FP-2.2
7	**ND**	CMU block material (gray) – wall, under #6	1st floor – AM-10 – corridor opp. room 4	FP-2.2
8	**ND**	Ceiling - White smooth skimcoat plaster above #3	1st floor – AM-10 – corridor at room 4	FP-2.2
9	**ND**	Ceiling - plaster (light gray) above #8, with wire mesh	1st floor – AM-10 – corridor at room 4	FP-2.2
10	**ND**[6]	Ceiling – gypsum board above #9	1st floor – AM-10 – corridor at room 4	FP-2.2
11	**ND**	Ceiling/wall patch plaster (lt. gray/beige) above SAT	1st floor – AM-10 – corridor at room 4	FP-2.2
12	**ND**	Ceiling - White plaster (spawling) [ceiling is lower than corridor plaster ceiling]	1st floor – AM-10 – toilet opp. room 5	FP-2.2
13	**ND**	Ceiling - plaster (light gray) above #12 on gypsum board	1st floor – AM-10 – toilet opp. room 5	FP-2.2
14	**ND**	(Same as #3)	3rd floor – AM-12 – corridor at room 8	FP-4.2

[3] **VFT** = Vinyl Floor Tile
[4] **SAT** = Suspended Acoustical Tile ceiling panels.
[5] **CWT** = Ceramic Wall Tiles
[6] **ND** = None Detected (i.e. no asbestos detected)

Sample #	ASB	Description	Location	DWG
15	**ND**	(Same as #8)	3rd floor – AM-12 – corridor at room 8	FP-4.2
16	**ND**	(Same as #9)	3rd floor – AM-12 – corridor at room 8	FP-4.2
17	**ND**	(Same as #10)	3rd floor – AM-12 – corridor at room 8	FP-4.2
18	**ND**	(Same as #11)	3rd floor – AM-12 – corridor at room 8	FP-4.2
19	**ND**	Concrete deck above SAT and plaster ceiling	3rd floor – AM-12 – corridor at room 8	FP-4.2
20	**ND**	(Same as #4)	3rd floor – AM-12 – corridor opp. room 7	FP-4.2
21	**ND**	(Same as #5)	3rd floor – AM-12 – corridor opp. room 7	FP-4.2
22	**ND**	(Same as #6)	3rd floor – AM-12 – corridor opp. room 7	FP-4.2
23	**ND**	Wall - White smooth skimcoat plaster	3rd floor – AM-12 – corridor at room 6	FP-4.2
24	**ND**	Wall - plaster (light gray) under #23	3rd floor – AM-12 – corridor at room 6	FP-4.2
25	**ND**	Wall – gypsum board under #24	3rd floor – AM-12 – corridor at room 6	FP-4.2
26	**ND**	(Same as #12)	3rd floor – AM-12 – toilet opp. room 9	FP-4.2
27	**ND**	(Same as #13) above #26	3rd floor – AM-12 – toilet opp. room 9	FP-4.2
28	**ND**	Gypsum board above #27	3rd floor – AM-12 – toilet opp. room 9	FP-4.2
29	**ND**	2'x 2' SAT ceiling panel (smooth, white painted, gray gypsum board)	3rd floor – cafeteria	FP-4.1
30	**ND**	(Same as #29)	3rd floor – cafeteria	FP-4.1
N/A	**PACM[7]**	2'x 2' Transite cement ceiling panel (hole pattern) screwed to metal grid, above #29 & #30	3rd floor – cafeteria	FP-4.1
31	**ND**	2'x 2' SAT ceiling panel (off-white, older, fissured pattern)	3rd floor – corridor near door to wing AM-2	FP-4.1
32	**ND**	2'x 2' SAT ceiling panel (white, replacement tile, fissured pattern) between SAT panels type #31	3rd floor – corridor near door to wing AM-2	FP-4.1
33	**ND**	2'x 2' SAT ceiling panel (white, new, fissured pattern)	3rd floor – AM-5 – women's shower room	FP-4.1
34	**ND**	Ceiling – rough, gray skimcoat plaster (white painted) above type #33 SAT	3rd floor – AM-5 – women's shower room	FP-4.1
35	**ND**	Ceiling – light gray plaster above #34, on wire mesh	3rd floor – AM-5 – women's shower room	FP-4.1
36	**ND**	Wall (and ceiling) - White smooth skimcoat plaster above type #33 SAT	3rd floor – AM-5 – corridor at large dayroom near room 3-24	FP-4.1
37	**ND**	Gray plaster under #36, on wire mesh	3rd floor – AM-5 – corridor at large dayroom near room 3-24	FP-4.1
38	**ND**	(Same as #33)	3rd floor – AM-5 – room 3-20	FP-4.1
39	**ND**	(Same as #34)	3rd floor – AM-5 – room 3-20	FP-4.1
40	**ND**	(Same as #35)	3rd floor – AM-5 – room 3-20	FP-4.1
41	**ND**	Linoleum (black with white pattern)	3rd floor – northeast stairwell landing	FP-4.1
42	**ND**	Glue (yellow) under #41	3rd floor – northeast stairwell landing	FP-4.1
43	**ND**	Paint (gray) under #42	3rd floor – northeast stairwell landing	FP-4.1
44	**ND**	Concrete under #43	3rd floor – northeast stairwell landing	FP-4.1
45	**ND**	Concrete deck above #34/35 & wire mesh ceiling	3rd floor – AM-5 – women's shower room	FP-4.1
46	**ND**	(Same as #31)	3rd floor – AM-2 – large dayroom near room 3-17	FP-4.1
47	**ND**	(Same as #32)	3rd floor – AM-2 – large dayroom near room 3-17	FP-4.1
48	**ND**	(Same as #36) – ceiling above 2'x 2' SAT types #31 and #32	3rd floor – AM-2 – large dayroom near room 3-17	FP-4.1
49	**ND**	(Same as #37)	3rd floor – AM-2 – large dayroom near room 3-17	FP-4.1
50	**ND**	(Same as #44) – concrete (gray painted) - no Lino/VFT	3rd floor – northwest stairwell landing	FP-4.1
51	**ND**	2'x 4' SAT ceiling panel (off-white, older, 12"x 12" raised pattern)	2nd floor – break room 2-22	FP-3.1

[7] **PACM** = Presumed ACM

The inspection and sampling for suspect ACM undertaken were only of representative materials in representative accessible locations. This was not a comprehensive inspection of all areas and materials that may be impacted by the project. It is the fire protection general contractor's responsibility to undertake comprehensive inspection and sampling for suspect ACM (as well as other hazardous materials) prior to commencing work in the building. Additional materials will need to be sampled and analyzed for ASB to adequately characterize all the materials that may be impacted by the FP project – these include wall and ceiling plasters and paints; CMU blocks and mortars; gypsum wall materials; floor terrazzo and concrete; ceiling tiles; wall ceramic tile grouts and setting beds; vinyl floor tiles and glues, as well as residual floor glues; electrical wire insulation in the building areas and light fixtures; and other materials.

Based on the presence and quantities of ACM that are likely to be impacted by the FP project, an asbestos abatement plan will need to be prepared and submitted to RIDOH for approval prior to commencement of any work.

All work undertaken in this building related to this fire protection project must be completed in accordance with applicable federal and state regulations, including EPA, OSHA, RIDOH and RIDEM regulations relating to asbestos and lead in paint, as well as renovation, transportation and disposal regulations.

Please do not hesitate to contact me if you have any questions.

Very truly yours,

LSG Inc.

Kenneth Davis
Environmental Scientist

r111026-insprpt-bldg 50 am

Attachment – Appendix - Laboratory reports and annotated FP drawings for sample locations.

APPENDIX

- **Laboratory Sample Analysis Reports**
- **Annotated FP drawings for sample locations**

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (800) 220-3675 Fax: (856) 786-5974 Email: cinnasblab@EMSL.com

Attn: **Ken Davis**
LSG, Inc.
PO Box 40593
Providence, RI 02940-0593

Fax: Phone: (401) 751-6131

Project: **ADOLPH MEYER BLDG, PATORE CENTER CRANSTON RI**

Customer ID:	LSGI50
Customer PO:	RI STATE
Received:	10/21/11 9:15 AM
EMSL Order:	041128146
EMSL Proj:	MPA 194 RI State Contract
Analysis Date:	10/23/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos %	Fibrous	Non-Asbestos %	Non-Fibrous	Asbestos % Type
1 *041128146-0001*	1ST FLOOR FOYER OFF LOADING DOCK - 12X12 VFT BEIGE W/GREY FLECKS	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
2 *041128146-0002*	1ST FLOOR FOYER OFF LOADING DOCK - GLUE BEIGE UNDER #1 ON CONCRETE	Yellow Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
3 *041128146-0003*	1ST FLOOR AM 10 CORRIDOR AT RM 4 - 2X2 SAT CEILING PANEL WHITE NEW FISSURED PATTERN	Gray Fibrous Heterogeneous	45% 30%	Cellulose Min. Wool	25%	Non-fibrous (other)	**None Detected**
4 *041128146-0004*	1ST FLOOR AM 10 CORRIDOR AT RM 4 - GROUT GREY BETWN CWT	Gray Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

Initial report from 10/23/2011 12:08:23

Analyst(s)

Garret Vliet (20)
Johnny Yu (32)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
5 *041128146-0005*	1ST FLOOR AM 10 CORRIDOR AT RM 4 - SETTING BED CEMENT DARK GREY	Gray Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
6 *041128146-0006*	1ST FLOOR AM 10 CORRIDOR AT RM 4 - WALL PLASTER LT GREY UNDER #5	Gray Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
7 *041128146-0007*	1ST FLOOR AM 10 CORRIDOR AT RM 4 - CMN BLOCK GREY UNDER #6	Gray Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
8 *041128146-0008*	1ST FLOOR AM 10 CORRIDOR AT RM 4 - WH SMOOTH CEILING PLASTER SKIMCOAT ABOVE SAT	White Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
9 *041128146-0009*	1ST FLOOR AM 10 CORRIDOR AT RM 4 - PLASTER LT GREY ABOVE #8	Gray Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
10 *041128146-0010*	1ST FLOOR AM 10 CORRIDOR AT RM 4 - GYPSUM BOARD ABOVE #9	Gray Fibrous Heterogeneous	20%	Cellulose	80%	Non-fibrous (other)	**None Detected**
11-Skim Coat *041128146-0011*	1ST FLOOR AM 10 CORRIDOR AT RM 4 - CEILING & WALL PATCH LT GREY/BIEGE ABOVE SAT	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
11-Base Coat *041128146-0011A*	1ST FLOOR AM 10 CORRIDOR AT RM 4 - CEILING & WALL PATCH LT GREY/BIEGE ABOVE SAT	Beige Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
12 *041128146-0012*	1ST FLOOR BATHROOM OPPOSITE RM 5 - WH CEILING PLASTER SPARKLING ON CEILING THAT IS LOWER THEN OTHERS	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
13 *041128146-0013*	1ST FLOOR BATHROOM OPPOSITE RM 5 - PLASTER LT GREY ABOVE #12 ON GYP	Gray Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
14 *041128146-0014*	3RD FLR AM12 CORRIDOR AT RM 8 - 2X2 SAT CEILING PANEL WHITE NEW FISSURED PATTERN	Gray/White Fibrous Homogeneous	50% 25%	Cellulose Min. Wool	25%	Non-fibrous (other)	**None Detected**

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
15-Skim Coat *041128146-0015*	3RD FLR AM12 CORRIDOR AT RM 8 - WH SMOOTH CEILING PLASTER SKIMCOAT ABOVE SAT	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
15-Base Coat *041128146-0015A*	3RD FLR AM12 CORRIDOR AT RM 8 - WH SMOOTH CEILING PLASTER SKIMCOAT ABOVE SAT	Layer not needed (#16)					**Analysis Cancelled**
16 *041128146-0016*	3RD FLR AM12 CORRIDOR AT RM 8 - PLASTER LT GREY ABOVE #8	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
17 *041128146-0017*	3RD FLR AM12 CORRIDOR AT RM 8 - GYPSUM BOARD ABOVE #9	Tan/White Fibrous Homogeneous	12%	Cellulose	88%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
18 *041128146-0018*	3RD FLR AM12 CORRIDOR AT RM 8 - CEILING & WALL PATCH LT GREY/BIEGE ABOVE SAT	Gray/White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
19 *041128146-0019*	3RD FLR AM12 CORRIDOR AT RM 8 - CONCRETE DECK ABOVE SAT	Gray Fibrous Heterogeneous	5%	Cellulose	95%	Non-fibrous (other)	**None Detected**
20 *041128146-0020*	1ST FLR OPPOSITE RM 7 - GROUT GREY BETWN CWT	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
21 *041128146-0021*	1ST FLR OPPOSITE RM 7 - SETTING BED CEMENT DARK GREY	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**

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200 Route 130 North, Cinnaminson, NJ 08077
Phone: (800) 220-3675 Fax: (856) 786-5974 Email: cinnasblab@EMSL.com

Attn: **Ken Davis**
LSG, Inc.
PO Box 40593
Providence, RI 02940-0593

Fax: Phone: (401) 751-6131

Project: **ADOLPH MEYER BLDG, PATORE CENTER CRANSTON RI**

Customer ID:	LSGI50
Customer PO:	RI STATE
Received:	10/21/11 9:15 AM
EMSL Order:	041128146
EMSL Proj:	MPA 194 RI State Contract
Analysis Date:	10/23/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
22 *041128146-0022*	1ST FLR OPPOSITE RM 7 - WALL PLASTER LT GREY UNDER #5	Grayish Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
23 *041128146-0023*	1ST FLR OPPOSITE RM 6 - WH SMOOTH SKIMCOAT PLASTER WALL	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
24 *041128146-0024*	1ST FLR OPPOSITE RM 6 - PLASTER LT GREY UNDER #23	Gray Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
25 *041128146-0025*	1ST FLR OPPOSITE RM 6 - GYPSUM BOARD UNDER #24	Tan Fibrous Heterogeneous	15%	Cellulose	85%	Non-fibrous (other)	**None Detected**

Initial report from 10/23/2011 12:08:23

Analyst(s)

Garret Vliet (20)
Johnny Yu (32)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
26 *041128146-0026*	1ST FLR BATHROOM OPPOSITE RM 9 - WH CEILING PLASTER SPARKLING ON CEILING THAT IS LOWER THEN OTHERS	White Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
27 *041128146-0027*	1ST FLR BATHROOM OPPOSITE RM 9 - PLASTER LT GREY ABOVE #26 ON GYP	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
28 *041128146-0028*	1ST FLR BATHROOM OPPOSITE RM 9 - GYP BOARD ABOVE #27	Tan/White Fibrous Homogeneous	12%	Cellulose	88%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
29 *041128146-0029*	1ST FLR CAFETERIA - TRANSITE 2'X2' TILES ABOVE 2X2 SAT CEILING PANEL GREY CEMENT, WH PAINT	Gray Fibrous Heterogeneous	60%	Min. Wool	40%	Non-fibrous (other)	**None Detected**
30 *041128146-0030*	1ST FLR CAFETERIA - TRANSITE 2'X2' TILES ABOVE 2X2 SAT CEILING PANEL GREY CEMENT, WH PAINT	Gray Fibrous Homogeneous	70%	Min. Wool	30%	Non-fibrous (other)	**None Detected**
31 *041128146-0031*	3RD FLR CORRIDOR NEAR DOOR TO WING AM2 - 2X2 SAT OLDER OFF WH FISSURED PATN	Tan Fibrous Heterogeneous	40% 35%	Cellulose Min. Wool	25%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
32 *041128146-0032*	3RD FLR CORRIDOR NEAR DOOR TO WING AM2 - 2X2 SAT WH REPLACEMENT TILE BTWN/TYPE #33 FISSURED PATTN	Tan Fibrous Heterogeneous	40% 35%	Cellulose Min. Wool	25%	Non-fibrous (other)	**None Detected**
33 *041128146-0033*	3RD FLR AM5 WOMEN'S SHOWER RESTROOM - 2X2 SAT WH NEW FISSURED PATTN	Gray Fibrous Heterogeneous	45% 35%	Cellulose Min. Wool	20%	Non-fibrous (other)	**None Detected**
34 *041128146-0034*	3RD FLR AM5 WOMEN'S SHOWER RESTROOM - SKIMCOAT ABOVE 2X2 SAT TYPE #33 GREY ROUGH CEMENT WH PAINT CEILING PLASTER	Gray Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
35 *041128146-0035*	3RD FLR AM5 WOMEN'S SHOWER RESTROOM - LT GREY HORSEHAIR PLASTER ABOVE #34 ON WIRE MESH	Gray Fibrous Heterogeneous	2%	Hair	98%	Non-fibrous (other)	**None Detected**
36 *041128146-0036*	3RD FLR AM5 NEAR RM 3-24 CORRIDOR AT LARGE RM - WH SMOOTH SKIMCOAT PLASTER ON WALL ABOVE 2X2 SAT TYPE 33	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
37 *041128146-0037*	3RD FLR AM5 NEAR RM 3-24 CORRIDOR AT LARGE RM - GREY HORSEHAIR PLASTER UNDER #36 ON WIRE MESH	Gray Fibrous Heterogeneous	2%	Synthetic	98%	Non-fibrous (other)	**None Detected**

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Sample	Description	Appearance	Non-Asbestos %	Non-Asbestos Fibrous	Non-Asbestos %	Non-Asbestos Non-Fibrous	Asbestos % Type
38 *041128146-0038*	3RD FLR AM5 RM 3-20 - 2X2 SAT WH NEW FISSURED PATTN	Gray/White Fibrous Homogeneous	50% 25%	Cellulose Min. Wool	25%	Non-fibrous (other)	**None Detected**
39 *041128146-0039*	3RD FLR AM5 RM 3-20 - SKIMCOAT ABOVE 2X2 SAT TYPE #33 GREY ROUGH CEMENT WH PAINT CEILING PLASTER	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
40 *041128146-0040*	3RD FLR AM5 RM 3-20 - LT GREY HORSEHAIR PLASTER ABOVE #34 ON WIRE MESH	Grayish Non-Fibrous Homogeneous	1%	Hair	99%	Non-fibrous (other)	**None Detected**
41 *041128146-0041*	3RD FLR N.E. STAIRWELL LANDING - LINO BLACK W/WHITE	Black Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
42 *041128146-0042*	3RD FLR N.E. STAIRWELL LANDING - GLUE YELLOW UNDER #41	Yellow Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
43 *041128146-0043*	3RD FLR N.E. STAIRWELL LANDING - PAINT GREY UNDER #42	Gray Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
44 *041128146-0044*	3RD FLR N.E. STAIRWELL LANDING - CONCTETE UNDER #43	Gray Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**
45 *041128146-0045*	3RD FLR AM5 WOMENS SHOWER RESTROOM - CONCRETE DECK ABOVE #34/35 CEILING & WIRE MESH	Gray Non-Fibrous Heterogeneous		100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
46 *041128146-0046*	3RD FLR AM2 DAYROOM NEAR RM 3-17 - 2X2 SAT OLDER OFF WH FISSURED PATN	Gray/White Fibrous Homogeneous	50% 35%	Cellulose Min. Wool	15%	Non-fibrous (other)	**None Detected**
47 *041128146-0047*	3RD FLR AM2 DAYROOM NEAR RM 3-17 - 2X2 SAT WH REPLACEMENT TILE BTWN/TYPE #33 FISSURED PATTN	Gray/White Fibrous Homogeneous	45% 30%	Cellulose Min. Wool	25%	Non-fibrous (other)	**None Detected**
48 *041128146-0048*	3RD FLR AM2 DAYROOM NEAR RM 3-17 - WH SMOOTH SKIMCOAT PLASTER CEILING ABOVE 2X2 SAT TYPE 31 &32	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
49 *041128146-0049*	3RD FLR AM2 DAYROOM NEAR RM 3-17 - GREY HORSEHAIR PLASTER UNDER #36 ON WIRE MESH	Gray Fibrous Homogeneous	4% 1%	Cellulose Hair	95%	Non-fibrous (other)	**None Detected**
50 *041128146-0050*	3RD FLR NW STAIRWELL LANDING - CONCRETE UNDER GREY PAINT NO LINO OR VFT	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
51 *041128146-0051*	2ND FLR BREAK ROOM #2-22 - 2'X4' SAT OF WH OLDER W/12"X12" RAISED PATT	Tan Fibrous Heterogeneous	40% 40%	Cellulose Min. Wool	20%	Non-fibrous (other)	**None Detected**

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THIS IS THE LAST PAGE OF THE REPORT.

041128146

041128146

LSG, Inc.

PO Box 40593, Providence, RI 02940
Telephone: (401) 751-6131 Fax: (401) 454-0059

SAMPLE DATA SHEET

PROJECT: ADOLPH MEYER BLDG, PASTORE CENTER, CRANSTON, RI PURCHASE ORDER #: RI STATE

SAMPLED BY: K. DAVIS PROJECT NUMBER:

DATE: 10.20.11 PAGE 1 OF 2

Line	Sample #	Description	Location	Notes
1	1	12x12 VFT (BEIGE W/ GRAY FLECKS)	1ST FLR FOYER OFF LOADING DOCK	
2	2	GLUE (BEIGE) UNDER #1 ON CONCRETE	— ~~AM 10 CORRIDOR AT ROOM 4~~	
3	3	2x2 SAT CEILING PANEL (WHITE NEW, FISSURED PATN)	— AM 10 - CORRIDOR AT ROOM 4	
4	4	GROUT (GRAY) BETW/ CMU	— — —	
5	5	SETTING BED CEMENT (DARK GRAY)	— — —	
6	6	WALL PLASTER (LT. GRAY) WHITE UNDER #5	— — —	
7	7	CMU BLOCK (GRAY) — #6	— — —	
8	8	WH. SMOOTH CEILING PLASTER SKIMCOAT ABOVE SAT	— — —	
9	9	PLASTER (LT. GRAY) ABOVE #8	— — —	
10	10	GYPSUM BOARD ABOVE #9	— — —	
11	11	CEILING & WALL PATCH PLASTER (LT. GRAY/BEIGE) ABOVE SAT	— — —	
12	12	WH. CEILING PLASTER (SPARKLING) LOWER THAN OTHERS ON CEILING THAT IS	— — BATHROOM OPPOSITE ROOM 5	
13	13	PLASTER (LT. GRAY) ABOVE #12 ON ~~WIRE MESH AND~~ GYP?	— — —	
14	14	(SAME #3)	3RD FLR AM 12 - CORRIDOR AT ROOM 8	
15	15	(— #8)	— — —	
16	16	(— #9)	— — —	
17	17	(— #10)	— — —	
18	18	(— #11)	— — —	
19	19	CONCRETE DECK ABOVE SAT	— — —	
20	20	(SAME #4)	— — CORRIDOR OPP. RM 7	
21	21	(— #5)	— — —	
22	22	(— #6)	— — —	
23	23	WH. SMOOTH SKIMCOAT PLASTER - WALL	— — CORRIDOR AT RM 6	
24	24	PLASTER (LT. GRAY) UNDER #23	— — —	
25	25	GYPSUM BOARD UNDER #24	— — —	
26	26	(SAME #12)	— — BATHROOM OPP. RM 9	
27	27	(— #13) ABOVE #26	— — —	
28	28	GYP. BOARD ABOVE #27	— — —	
29	29	2x2 SAT CEILING PANEL (GRAY CEMENT, WH. PAINT) (TRANSITE 2x2 TILES HAVE TYPE)	— CAFETERIA	
30	30	(SAME #29)	— —	

COMMENTS: (1) Type of Analysis = PLM ASBESTOS
(2) TAT = 24 hours; (3) EMSL LabConnect posting only.
(4) Total number of samples submitted = 51

RELINQUISHED BY: (SIGNATURE)	DATE	RECEIVED BY: (SIGNATURE)	DATE
	10.20.11		10-21-11

51 samples

SAMPLES ACCEPTED FOR ANALYSIS BY EMSL ANALYTICAL INC. CINNAMINSON, N.J. 2011 OCT 21 A 10:21

DRAWING 2.2 4.2 4.1

SOME BLACK MASTIC FROM CB IN CH SHOT, 105

HOT 26 27 08 09

HOT 110

ALL BLUE CMU

HOT 1, 112, 113, 114

ACM 2x2 TRANSITE CEILING TILES SCREWED TO W. THE GRAY SAT (GRAY W/ WH. PAINT)

41128146

04111 28146

LSG, Inc.

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SAMPLE DATA SHEET

PROJECT: ADOLPH MEYER BLDG, PASTORE CENTER, CRANSTON, RI PURCHASE ORDER #:

SAMPLED BY: K. DAVIS PROJECT NUMBER:

DATE: 10.20.11 PAGE 2 OF 2

	Line	Sample #	Description	Location	Notes
Photo 115	1	31	2x2 SAT (OLDER, OFF-WH, FISSURED PAT^N)	3RD FLR, CORRIDOR NEAR DOOR TO WING AM2	4.1
	2	32	(WH. REPLACEMENT TILE BETW/#31 TYPE FISSURED PAT^N)		
	3	33	(WH. NEW, FISSURED PAT^N)	AM5, WOMEN'S SHOWER RESTR^M	
Photo 116	4	34	GRAY, ROUGH CEMENT (WH. PAINT) CEILING PLASTER SKIMCOAT ABOVE 2x2 SAT TYPE #33		
	5	35	LT. GRAY HORSEHAIR PLASTER ABOVE #34 ON WIRE MESH		
SAME AS ADJACENT CEILING Photo 117	6	36	WH. SMOOTH SKIMCOAT PLASTER ON WALL ABOVE 2x2 SAT TYPE #33	NEAR ROOM 3-24 CORRIDOR AT LARGE ROOM	
	7	37	GRAY HORSEHAIR PLASTER BENEATH #36 ON WIRE MESH		
	8	38	(SAME #33)	ROOM 3-20	
	9	39	(" #34)		
	10	40	(" #35)		
Photo 118	11	41	LINO (BLACK w/WHITE)	N.E. STAIRWELL LANDING	
	12	42	GLUE (YELLOW) UNDER #41		
	13	43	PAINT (GRAY) " #42		
	14	44	CONCRETE UNDER #43		
Photo 119	15	45	CONCRETE DECK ABOVE #34/35 + CEILING WIRE MESH	AM5, WOMEN'S SHOWER RESTR^M	
	16	46	(SAME AS #31)	AM2 - DAYROOM NEAR RM 3-17	
	17	47	(" #32)		
	18	48	(" #36) - CEILING ABOVE 2x2 SAT TYPE #31 & #32		
	19	49	(" #37)		
	20	50	(SAME #44) - CONCRETE UNDER GRAY PAINT - NO LINO OR VFT	N.W. STAIRWELL LANDING	
	21	51	2'x4' SAT (OFF-WH, FLAKER w/12"x12" RAISED PAT^N)	2ND FLR - BREAK ROOM #2-22	3.1
	22				
	23				
	24				
	25				
	26				
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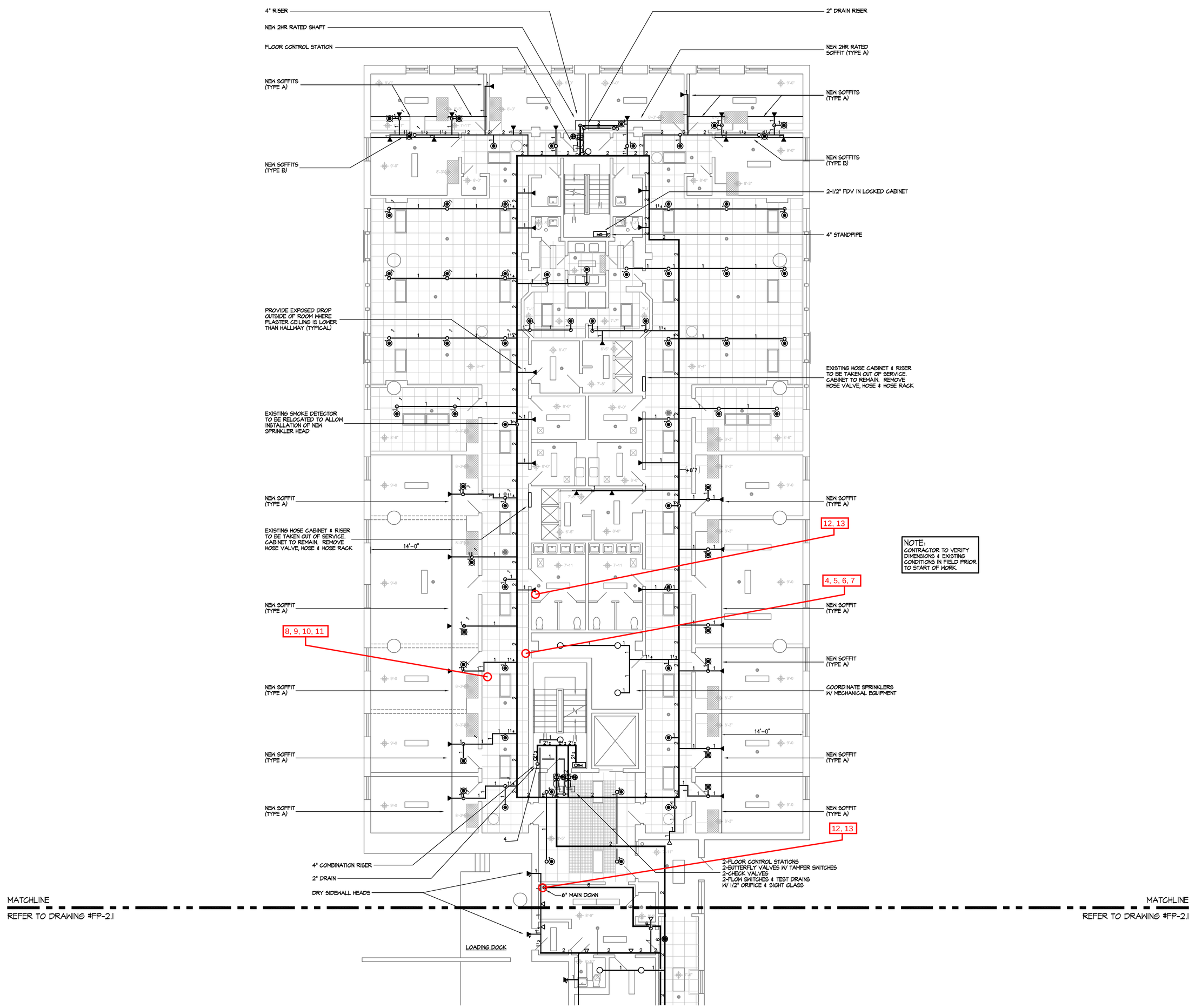
	28				
	29				
	30				

COMMENTS: (1) Type of Analysis =
SEE PAGE 1 (2) TAT = _____ hours; (3) EMSL LabConnect posting only.
(4) Total number of samples submitted =

RELINQUISHED BY: (SIGNATURE)	DATE	RECEIVED BY: (SIGNATURE)	DATE
	10/20/11		

SAMPLES ACCEPTED FOR ANALYSIS

RECEIVED EMSL CINNAMINSON, N.J. 2011 OCT 21 AM 8:



NOTE:
CONTRACTOR TO VERIFY DIMENSIONS & EXISTING CONDITIONS IN FIELD PRIOR TO START OF WORK.

1 / FP-2.2 FIRE PROTECTION: PARTIAL FIRST FLOOR PLAN - SPRINKLER SYSTEMS
SCALE: 1/8" = 1'-0"

GENERAL NOTES

The drawings are generally diagrammatic and are intended to convey the scope of work and indicate general arrangement of equipment. The locations of all indicated items that are not fixed by dimension are approximate only.

Maintain maximum space conditions at all points. Where space conditions appear inadequate, notify the Engineer before proceeding with the installation.

Coordinate the exact location of all materials with the work of other trades and with the existing conditions prior to installation.

All materials to be removed shall be removed from the project site in their entirety, including all hangers, supports and appurtenances.

Provide swing joints and piping offsets as required for installation of the sprinkler heads in the locations indicated. All new fire protection system piping shall be installed with offsets as required to be clear of mechanical ducts.

All system shut-downs shall be with prior approval of the Engineer and Owner. Interruptions to services shall be scheduled to minimize down time.

Refer to the PROJECT SPECIFICATION for additional requirements.

#	-	-
Revision Number	Date	Notes:

ROBERT S. WILKINSON
STATE OF RHODE ISLAND
No. 4589
REGISTERED PROFESSIONAL ENGINEER

WILKINSON ASSOCIATES INC
CONSULTING ENGINEERS
615 jefferson boulevard suite 7 warwick, rhode island 02886
telephone [401] 737-6382 facsimile [401] 737-6382
email: info@wilkinsonassociates.net

PROJECT
ADOLPH MEYER BUILDING
JOHN O. PASTORE CENTER
54 HOWARD AVENUE
CRANSTON, RHODE ISLAND

DRAWING
FIRE PROTECTION:
PARTIAL FIRST FLOOR PLAN;
NEW SPRINKLER SYSTEM
.

STATUS
ISSUED FOR CONSTRUCTION

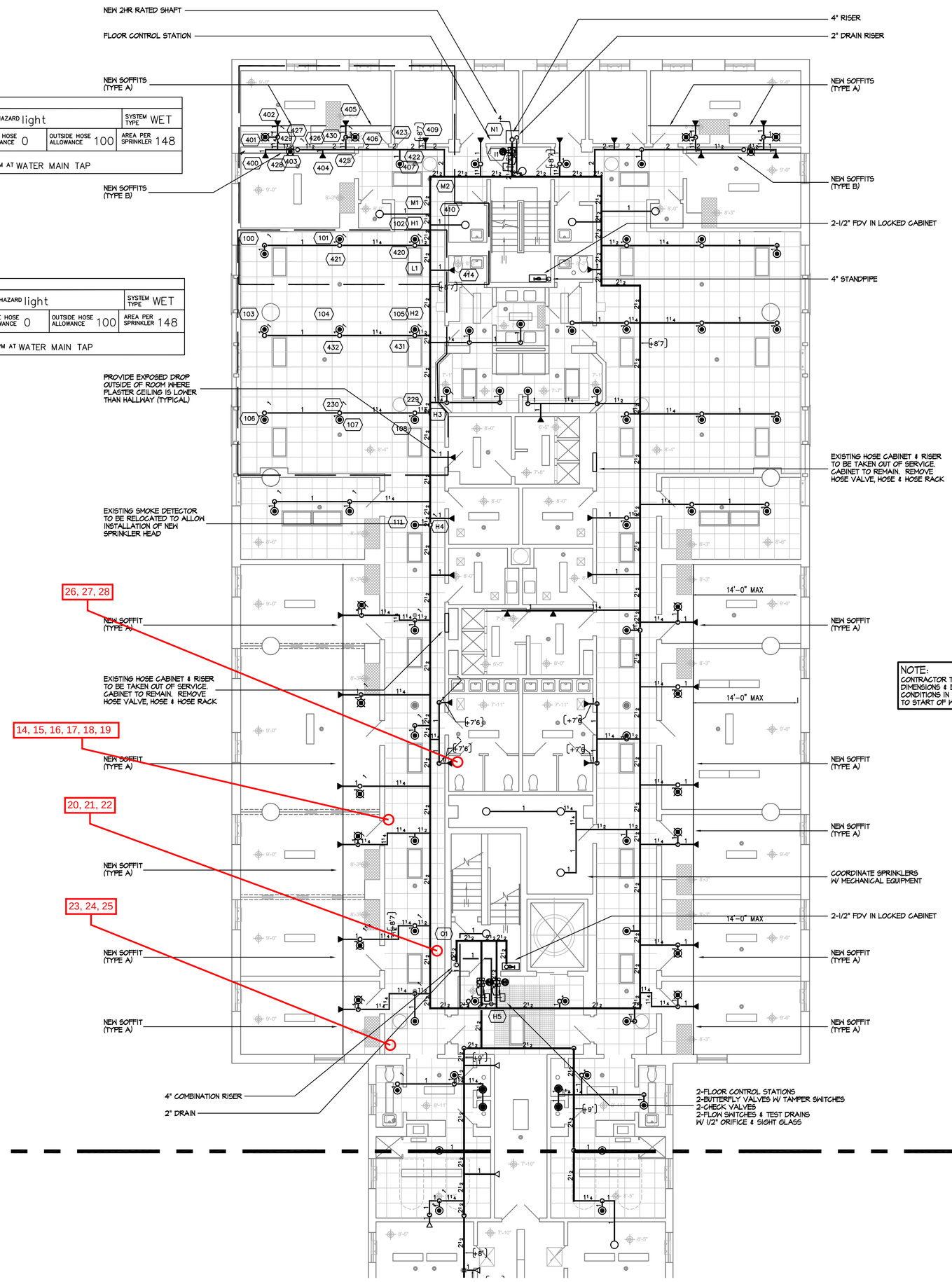
PROJECT #	10003
DRAWN BY:	MJS
CHECKED BY:	RSW
SCALE:	AS NOTED
DATE:	2010-04-21

FP-2.2

5/4/2011 4:48 PM S:\D\10003 Aldolph Meyer Building Fire Protection\10003 FP-2.1_2.2 First Floor.dwg

HYDRAULIC DESIGN INFORMATION							
AREA NUMBER 4	CODE NFPA 13		HAZARD light			SYSTEM TYPE WET	
REMOTE AREA SQ. FT. 900	DENSITY GPM/SQ. FT. .10	INSIDE HOSE ALLOWANCE 0		OUTSIDE HOSE ALLOWANCE 100		AREA PER SPRINKLER 148	
TOTAL SYSTEM REQUIREMENTS:	36.9 PSI	360.4 GPM AT WATER MAIN TAP					

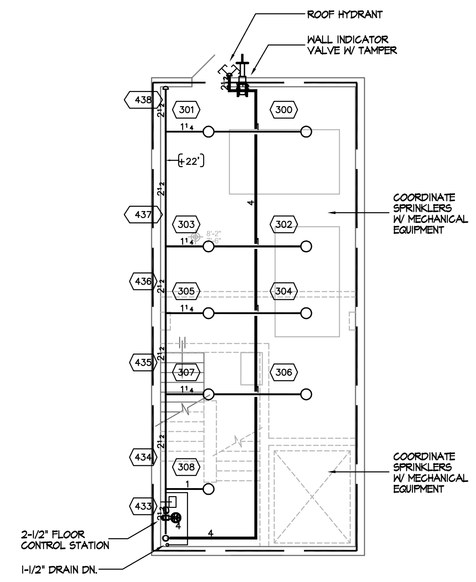
HYDRAULIC DESIGN INFORMATION							
AREA NUMBER 1	CODE NFPA 13		HAZARD light			SYSTEM TYPE WET	
REMOTE AREA SQ. FT. 900	DENSITY GPM/SQ. FT. .10	INSIDE HOSE ALLOWANCE 0		OUTSIDE HOSE ALLOWANCE 100		AREA PER SPRINKLER 148	
TOTAL SYSTEM REQUIREMENTS:	28.7 PSI	255.2 GPM AT WATER MAIN TAP					



NOTE:
CONTRACTOR TO VERIFY DIMENSIONS & EXISTING CONDITIONS IN FIELD PRIOR TO START OF WORK.

1 FP-4.2 FIRE PROTECTION: PARTIAL THIRD FLOOR PLAN – SPRINKLER SYSTEMS
SCALE: 1/8" = 1'-0"

HYDRAULIC DESIGN INFORMATION							
AREA NUMBER 3	CODE NFPA 13		HAZARD Ordinary II			SYSTEM TYPE WET	
REMOTE AREA SQ. FT. 826	DENSITY GPM/SQ. FT. .20	INSIDE HOSE ALLOWANCE 0		OUTSIDE HOSE ALLOWANCE 250		AREA PER SPRINKLER 130	
TOTAL SYSTEM REQUIREMENTS:	41.7 PSI	436.3 GPM AT WATER MAIN TAP					



2 FP-4.2 FIRE PROTECTION: PENTHOUSE PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES

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PROJECT
ADOLPH MEYER BUILDING
JOHN O. PASTORE CENTER
54 HOWARD AVENUE
CRANSTON, RHODE ISLAND

DRAWING
FIRE PROTECTION:
PARTIAL THIRD FLOOR PLAN;
NEW SPRINKLER SYSTEM
.

STATUS
ISSUED FOR CONSTRUCTION

PROJECT # 10003	FP-4.2
DRAWN BY: MJS	
CHECKED BY: RSW	
SCALE: AS NOTED	
DATE: 2010-04-21	

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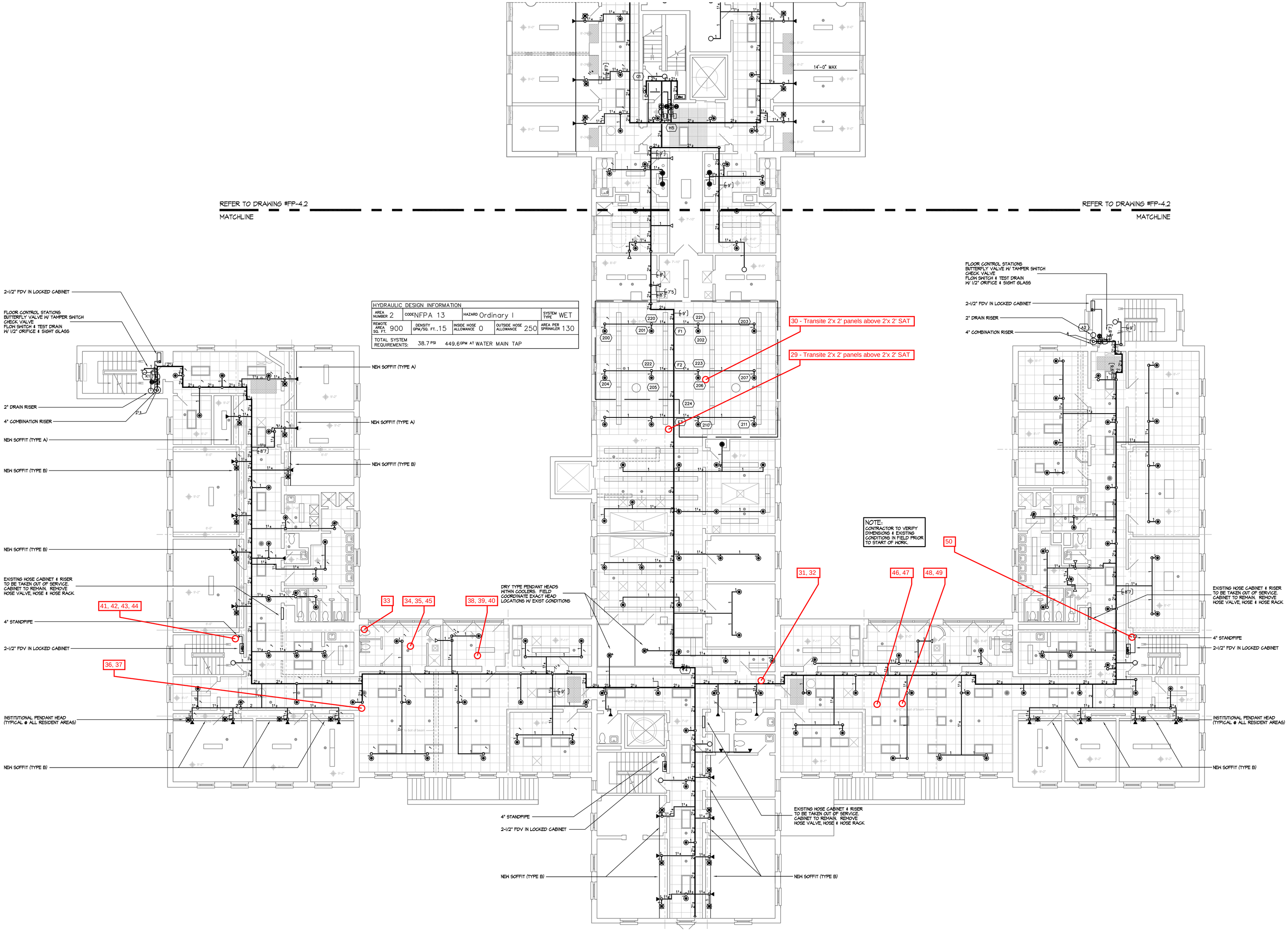

HYDRAULIC DESIGN INFORMATION							
AREA NUMBER 2	CODE NFPA 13		HAZARD Ordinary I			SYSTEM TYPE WET	
REMOTE AREA SQ. FT. 900	DENSITY GPM/SQ. FT. .15		INSIDE HOSE ALLOWANCE 0		OUTSIDE HOSE ALLOWANCE 250	AREA PER SPRINKLER 130	
TOTAL SYSTEM REQUIREMENTS:	38.7 PSI	449.6 GPM AT WATER MAIN TAP					

NOTE:
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1 FP-4.1 FIRE PROTECTION: PARTIAL THIRD FLOOR PLAN – SPRINKLER SYSTEMS
SCALE: 1/8" = 1'-0"

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Revision Number	Date	Notes:

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PROJECT
ADOLPH MEYER BUILDING
JOHN O. PASTORE CENTER
54 HOWARD AVENUE
CRANSTON, RHODE ISLAND

DRAWING
FIRE PROTECTION:
PARTIAL THIRD FLOOR PLAN;
NEW SPRINKLER SYSTEM
.

STATUS
ISSUED FOR CONSTRUCTION

PROJECT # 10003	FP-4.1
DRAWN BY: MJS	
CHECKED BY: RSW	
SCALE: AS NOTED	
DATE: 2010-04-21	

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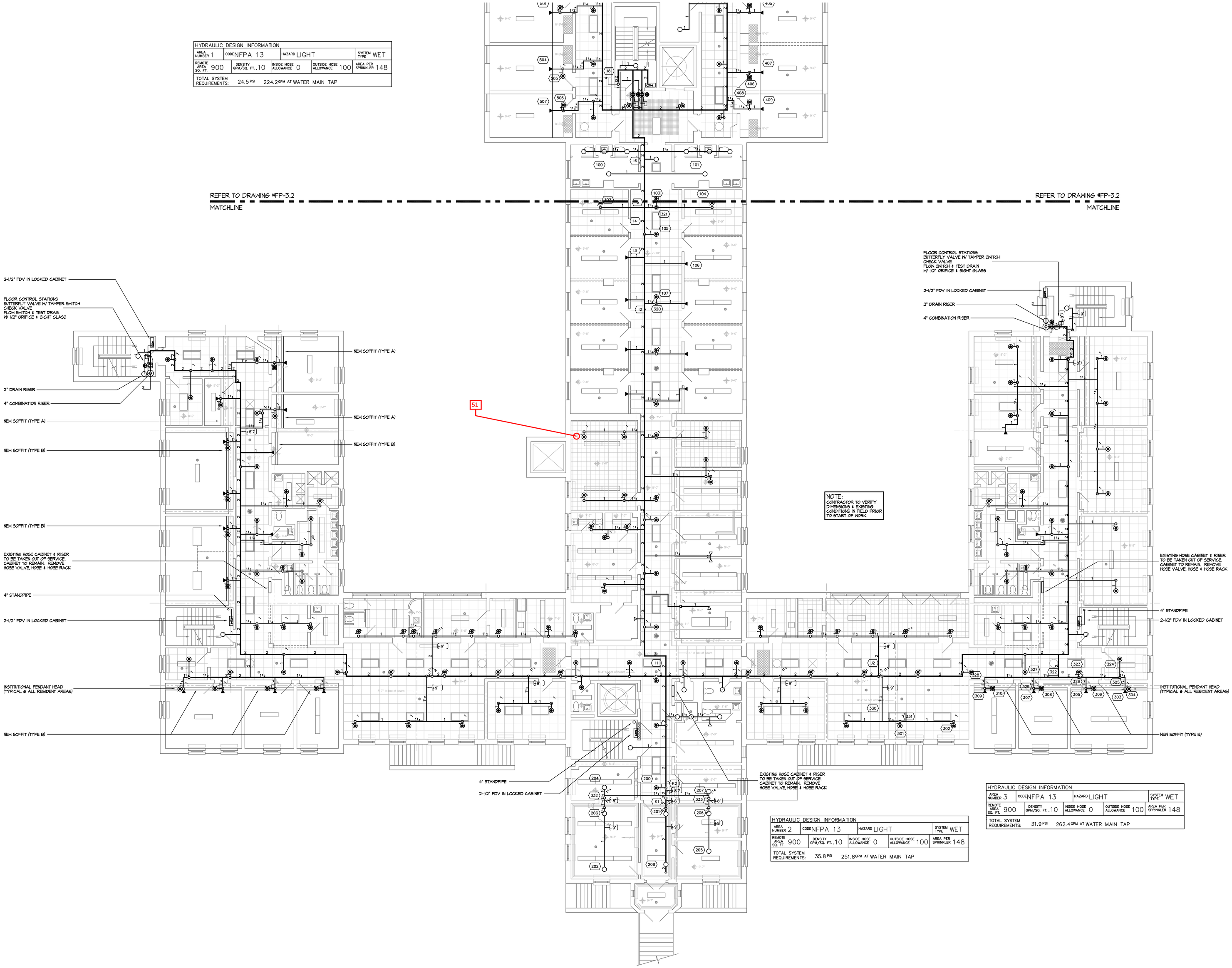
HYDRAULIC DESIGN INFORMATION									
AREA NUMBER	1	CODE	NFPA 13	HAZARD	LIGHT			SYSTEM TYPE	WET
REMOTE AREA SQ. FT.	900	DENSITY GPM/SQ. FT.	.10	INSIDE HOSE ALLOWANCE	0	OUTSIDE HOSE ALLOWANCE	100	AREA PER SPRINKLER	148
TOTAL SYSTEM REQUIREMENTS:	24.5 PSI	224.2 GPM AT WATER MAIN TAP							

REFER TO DRAWING #FP-3.2
MATCHLINE

REFER TO DRAWING #FP-3.2
MATCHLINE



NOTE:
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HYDRAULIC DESIGN INFORMATION									
AREA NUMBER	2	CODE	NFPA 13	HAZARD	LIGHT			SYSTEM TYPE	WET
REMOTE AREA SQ. FT.	900	DENSITY GPM/SQ. FT.	.10	INSIDE HOSE ALLOWANCE	0	OUTSIDE HOSE ALLOWANCE	100	AREA PER SPRINKLER	148
TOTAL SYSTEM REQUIREMENTS:	35.8 PSI	251.8 GPM AT WATER MAIN TAP							

HYDRAULIC DESIGN INFORMATION									
AREA NUMBER	3	CODE	NFPA 13	HAZARD	LIGHT			SYSTEM TYPE	WET
REMOTE AREA SQ. FT.	900	DENSITY GPM/SQ. FT.	.10	INSIDE HOSE ALLOWANCE	0	OUTSIDE HOSE ALLOWANCE	100	AREA PER SPRINKLER	148
TOTAL SYSTEM REQUIREMENTS:	31.9 PSI	262.4 GPM AT WATER MAIN TAP							

1 / FP-3.1 FIRE PROTECTION: PARTIAL SECOND FLOOR PLAN - SPRINKLER SYSTEMS

SCALE: 1/8" = 1'-0"

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PARTIAL SECOND FLOOR PLAN;
NEW SPRINKLER SYSTEM
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STATUS
ISSUED FOR CONSTRUCTION

PROJECT #	10003
DRAWN BY:	MJS
CHECKED BY:	RSW
SCALE:	AS NOTED
DATE:	2010-04-21

FP-3.1

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