

[illegible]

MARK	PICTURE	TYPE	CONCRETE	CONCRETE	SWEEP	WATER	WATER	NOTES
			CONCRETE	CONCRETE	WATER	WATER	SECTION	
PD-1		MECH ROOM	-	-	-	-	2148	2148
PD-2		GENERAL	-	-	-	-	2148	2148
PD-3		RESTAURANT	-	-	-	-	2148	2148
PD-4		RESTAURANT	-	-	-	-	2148	2148
PD-5		RESTAURANT	-	-	-	-	2148	2148
PD-6		RESTAURANT	-	-	-	-	2148	2148
PD-7		RESTAURANT	-	-	-	-	2148	2148
PD-8		RESTAURANT	-	-	-	-	2148	2148
PD-9		RESTAURANT	-	-	-	-	2148	2148
PD-10		RESTAURANT	-	-	-	-	2148	2148
PD-11		RESTAURANT	-	-	-	-	2148	2148
PD-12		RESTAURANT	-	-	-	-	2148	2148
PD-13		RESTAURANT	-	-	-	-	2148	2148
PD-14		RESTAURANT	-	-	-	-	2148	2148
PD-15		RESTAURANT	-	-	-	-	2148	2148
PD-16		RESTAURANT	-	-	-	-	2148	2148
PD-17		RESTAURANT	-	-	-	-	2148	2148
PD-18		RESTAURANT	-	-	-	-	2148	2148
PD-19		RESTAURANT	-	-	-	-	2148	2148
PD-20		RESTAURANT	-	-	-	-	2148	2148
PD-21		RESTAURANT	-	-	-	-	2148	2148
PD-22		RESTAURANT	-	-	-	-	2148	2148
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PD-132		RESTAURANT	-	-	-	-	2148	2148
PD-133		RESTAURANT	-	-	-	-	2148	2148
PD-134		RESTAURANT	-	-	-	-	2148	2148
PD-135								

 CHECK VALVE

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### FIFING & 3 TMBOL3 LEGEND

WASTE PIPING (SCHED 40)	_____
STORM PIPING (SCHED 40)	_____
VENT PIPING (SCHED 40 PW)	_____
DOME/STC CW PIPING (CC)	_____
DOME/STC HW PIPING (CC)	_____
DOME/STC HW PIPING (C)	_____
GAS PIPING (BLACK STEEL)	_____
FIRE (SPRINKLER) PIPING	_____
AIR PIPING	_____
PIPE UP	○ _____
PIPE DOWN	C _____

## GENERAL PLUMBING SYMBOLS

															
DIRECTION OF FLOW PITCH (DOWN)	ANCHOR	REDUCER OR INCREASER	EXPANDING REDUCER	TOP CONNECTION, 45 OR 90°	BOTTOM CONNECTION, 45 OR 90°	SIDE CONNECTION	90° ELBOW IN PIPE	UNION	PIPE UP	PIPE DOWN	THIS SYMBOL SHOWS THE APPROXIMATE LOCATION OF A THERMISTOR. APPROXIMATE POINT WHERE TEMPERATURE IS MEASURED	PRESSURE GAUGE	FLOW ELEMENT	CLEAN OUT	HOSE BIB

DETAIL NUMBER \_\_\_\_\_  
DRAWING NUMBER WHERE DETAIL IS SHOWN \_\_\_\_\_



MODEL	DESCRIPTION	B	
		1	2

1915	HWR PUMP 10 gpm @ 25 FT HD
1915	CWR PUMP 10 gpm @ 25 FT HD

[illegible]

1-1/4	1-1/2	2	2-1/2	3	4	5	6	8
7	9	10	11	12	14	16	17	19
7	8	8	9	10	12	13	14	16

MARK NO.	MANUFACTURER	MODEL	DESCRIPTION	ELEC
				1. NO.

NO.	BOGGER METER	M170	WATER METER	PF
WM-1				
MM-1	SYMONS	ST-5 120 COX	POINT OF LOADING VALUE	
WM-1	ORION	STYLE 7	NEUTRALIZATION PANK	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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MARK	FIRE/BLUNT RATING	IPS	SOX CHEF MODEL NO
WH4A	1-11	34"	001SERIES
WH4B	13-22	1"	001SERIES
WH4C	23-30	1"	001SERIES
WH4D	31-113	1"	001SERIES
WH4E	114-154	1"	001SERIES
WH4F	155-200	1"	001SERIES

A. ALL WORK SHALL CONFORM TO FEDERAL, STATE AND MECHANICAL AND PLUMBING CODES AND REGULATIONS.

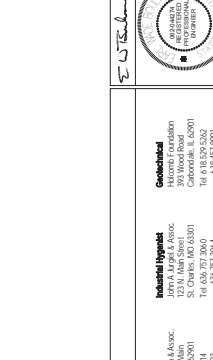
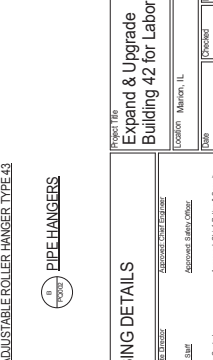
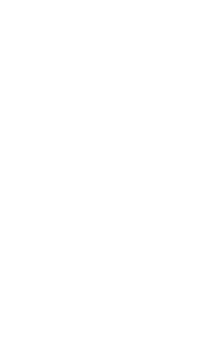
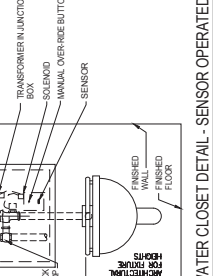
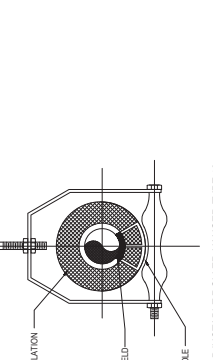
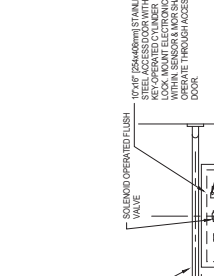
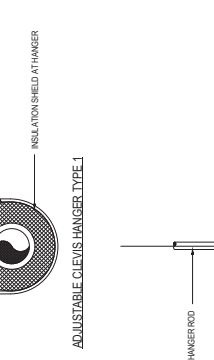
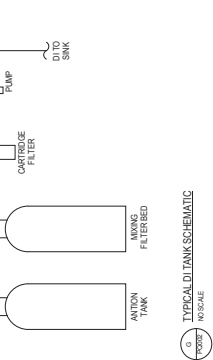
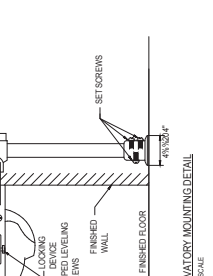
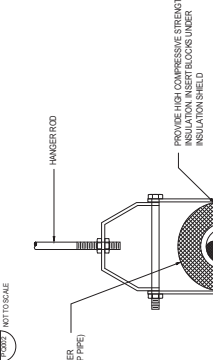
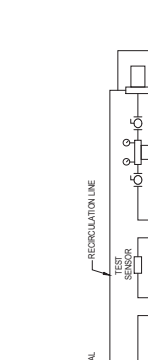
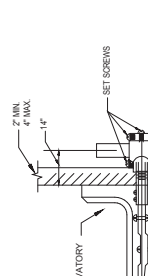
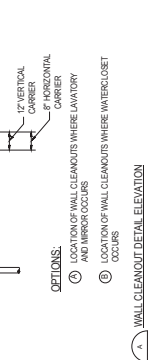
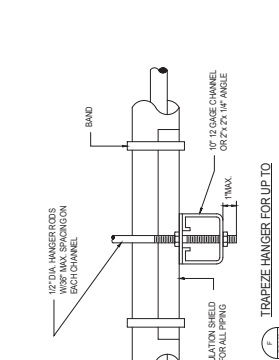
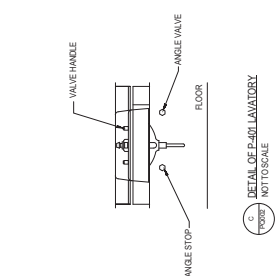
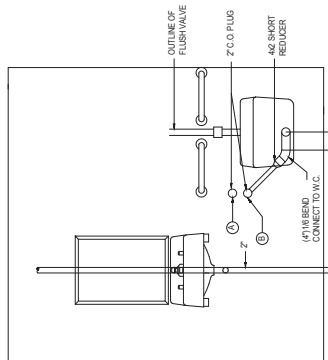
- A. ALLOW SKILL CONFORM TO FEELING, STAY IN THE BACKGROUND AND LEARN TO COPE WITH THE SITUATION.
- B. EQUIPMENT SHOULD BE COORDINATED WITH THE EQUIPMENT FURNISHED. EXISTING CONDITIONS SHOULD BE CONSIDERED. THE EQUIPMENT SHOULD BE CONSTRUCTED IN INSTALLING WORK WITHOUT INTERRUPTING THE WORK AND ALLOW THE INSTALLATION WORK AND ALL THINGS WORK.
- C. ALLOWING SKILL TO BE USED DURING CONSTRUCTION OF THE PROJECT.
- D. PROVIDE FOR THE POSSIBILITY OF PLACING ROUGH IN THE FIELD TO THE FIELD.
- E. PROVIDE FOR THE POSSIBILITY OF PLACING ROUGH IN THE FIELD TO THE FIELD.
- F. PROVIDE FOR THE POSSIBILITY OF PLACING ROUGH IN THE FIELD TO THE FIELD.
- G. UNLESS OTHERWISE NOTED, THE PILING SHALL BE CONSTRUCTED IN THE FIELD TO THE FIELD.
- H. UNLESS OTHERWISE NOTED, THE PILING SHALL BE CONSTRUCTED IN THE FIELD TO THE FIELD.
- I. UNLESS OTHERWISE NOTED, THE PILING SHALL BE CONSTRUCTED IN THE FIELD TO THE FIELD.
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- R. UNLESS OTHERWISE NOTED, THE PILING SHALL BE CONSTRUCTED IN THE FIELD TO THE FIELD.
- S. UNLESS OTHERWISE NOTED, THE PILING SHALL BE CONSTRUCTED IN THE FIELD TO THE FIELD.
- T. UNLESS OTHERWISE NOTED, THE PILING SHALL BE CONSTRUCTED IN THE FIELD TO THE FIELD.
- U. UNLESS OTHERWISE NOTED, THE PILING SHALL BE CONSTRUCTED IN THE FIELD TO THE FIELD.
- V. UNLESS OTHERWISE NOTED, THE PILING SHALL BE CONSTRUCTED IN THE FIELD TO THE FIELD.
- W. UNLESS OTHERWISE NOTED, THE PILING SHALL BE CONSTRUCTED IN THE FIELD TO THE FIELD.
- X. UNLESS OTHERWISE NOTED, THE PILING SHALL BE CONSTRUCTED IN THE FIELD TO THE FIELD.
- Y. UNLESS OTHERWISE NOTED, THE PILING SHALL BE CONSTRUCTED IN THE FIELD TO THE FIELD.
- Z. UNLESS OTHERWISE NOTED, THE PILING SHALL BE CONSTRUCTED IN THE FIELD TO THE FIELD.

## Sheet Name

LUMBER SCHEDULES & ABBREVIATIONS
LUMBER DETAILS
LUMBER DETAILS
LUMBER DETAILS
OVERLEVEL SANITARY PLAN
SANITARY PLAN LUMBER STORAGE PLAN
FIRST FLOOR SANITARY PLAN
SECOND FLOOR MECHANICAL ZONING SANITARY PLAN
LUMBER ROOF PLAN
EXTERIOR PLANS
OVERLEVEL DOMESTIC PUMP PLAN
WATER CLOSET TO COMES TO PUMP PLAN
CONDUIT FLOOR MECHANICAL DOMESTIC PUMP PLAN
PROTECTION NOTES

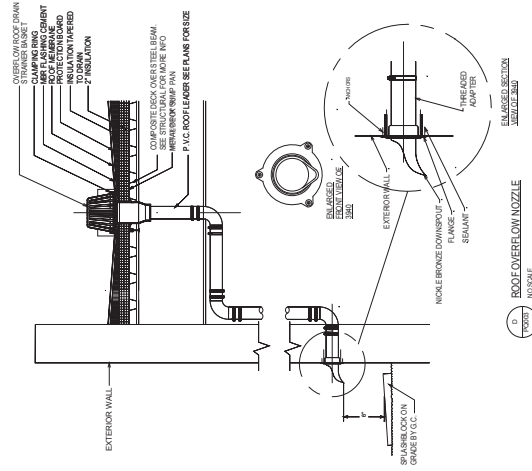
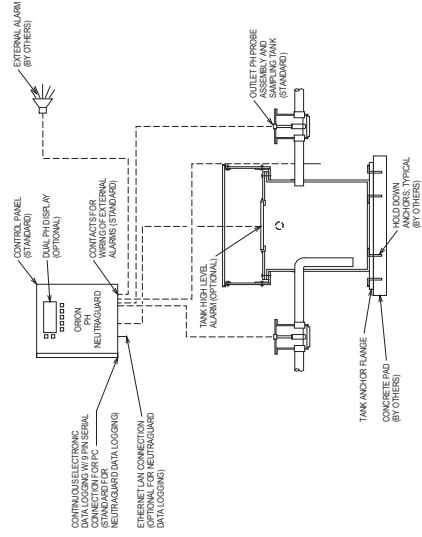
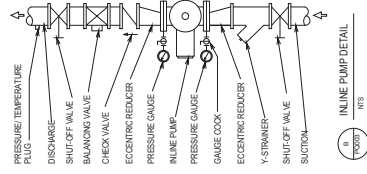
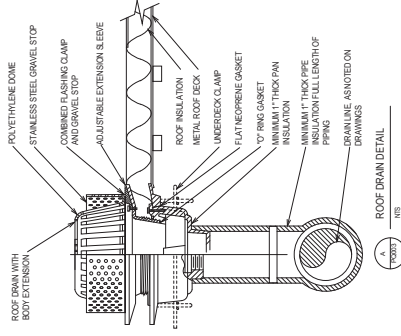
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Reference	Date	Consultants:	Architect/Engineers:	Plumbing Details	Project Info	Office of Facilities Management
		<b>Structural</b> McCormick Engineers 1400 Old Westbury Road Old Westbury, NY 11568 Tel: 516.337.5802 Fax: 516.337.5806	<b>DAE</b> Design Architecture Engineering 220 N. College Ave. Indianapolis, IN 46202 Tel: 317.444.9793 Fax: 317.444.9793	<b>Plumbing Details</b> Associate: Chief Engineer Associate: Chief Engineer Associate: Chief Engineer Associate: Chief Engineer	Project No.: 657-502 Revision: 42-Addition Drawing Number: PQ-002 Date: 12-20-17 Checked: DH Drawn: BZ	Office of Facilities Management VA U.S. Department of Veterans Affairs

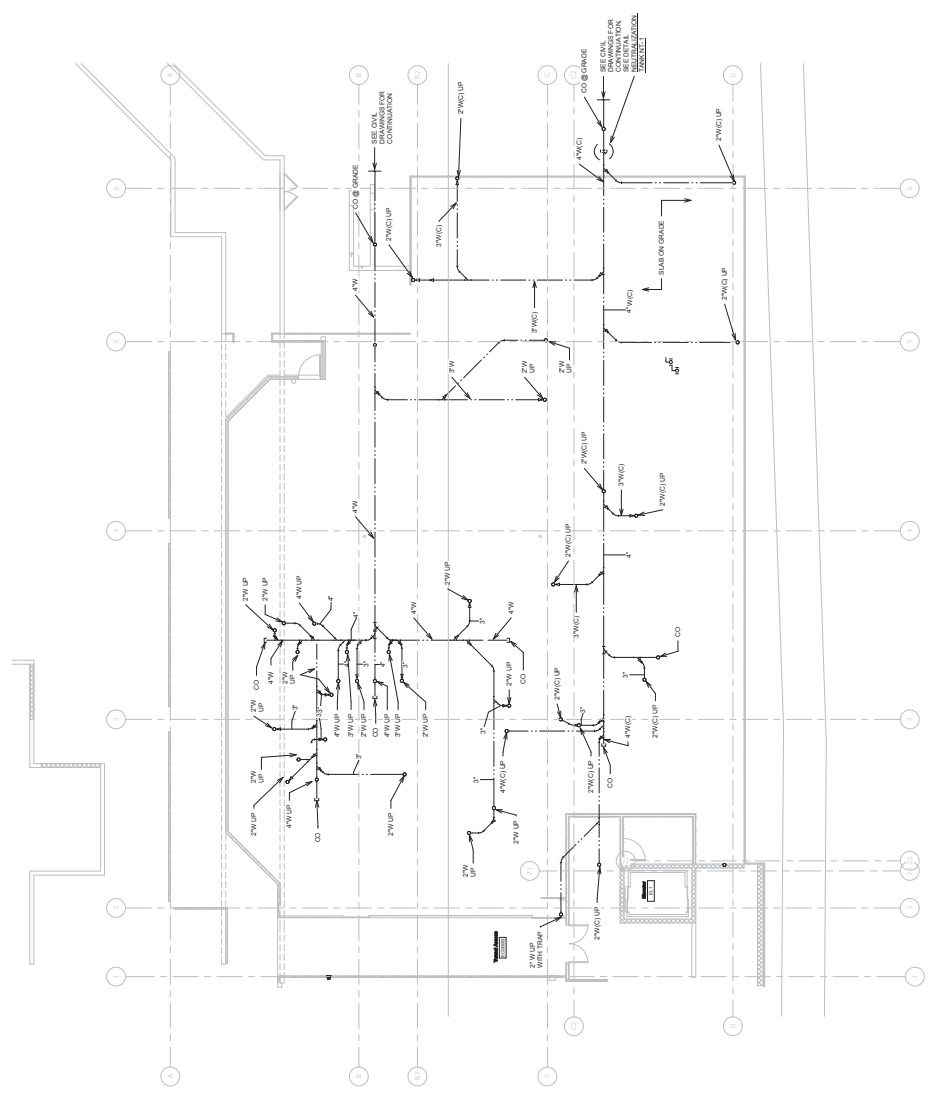


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GENERAL NOTES:  
1. ALL PIPING SHOWN IS BASED ON FINISHED FLOOR AND TYPICALLY MOUNTED AS HIGH AS POSSIBLE



Lower Level-Plumbing - Sanitary & Venting Plan  
1/8" = 1'-0"

Bid Document

CONSULTANTS:		ARCHITECT/ENGINEERS:		LOWER LEVEL - SANITARY		Expand & Upgrade Building 42 for Laboratory		PL-101		Office of Facilities Management	
Structural	Geotechnical	Industrial Hygiene	Cost/Estimate	Sanitary & Venting	Plumbing	Electrical	HVAC	Plumbing	Electrical	Plumbing	Electrical
McCombs Engineers 1000 E. 10th Street Cedar Rapids, IA 52401 Tel: 319.380.0402 Fax: 319.380.0166	Hickman Foundation 1000 E. 10th Street Cedar Rapids, IA 52401 Tel: 319.380.0402 Fax: 319.380.0166	John A. Jorgensen & Assoc. 1000 E. 10th Street Cedar Rapids, IA 52401 Tel: 319.380.0402 Fax: 319.380.0166	220 N. College Ave. Indianapolis, IN 46202 Tel: 317.444.9793 Fax: 317.444.9793	220 N. College Ave. Indianapolis, IN 46202 Tel: 317.444.9793 Fax: 317.444.9793	220 N. College Ave. Indianapolis, IN 46202 Tel: 317.444.9793 Fax: 317.444.9793	220 N. College Ave. Indianapolis, IN 46202 Tel: 317.444.9793 Fax: 317.444.9793	220 N. College Ave. Indianapolis, IN 46202 Tel: 317.444.9793 Fax: 317.444.9793	220 N. College Ave. Indianapolis, IN 46202 Tel: 317.444.9793 Fax: 317.444.9793	220 N. College Ave. Indianapolis, IN 46202 Tel: 317.444.9793 Fax: 317.444.9793	220 N. College Ave. Indianapolis, IN 46202 Tel: 317.444.9793 Fax: 317.444.9793	220 N. College Ave. Indianapolis, IN 46202 Tel: 317.444.9793 Fax: 317.444.9793

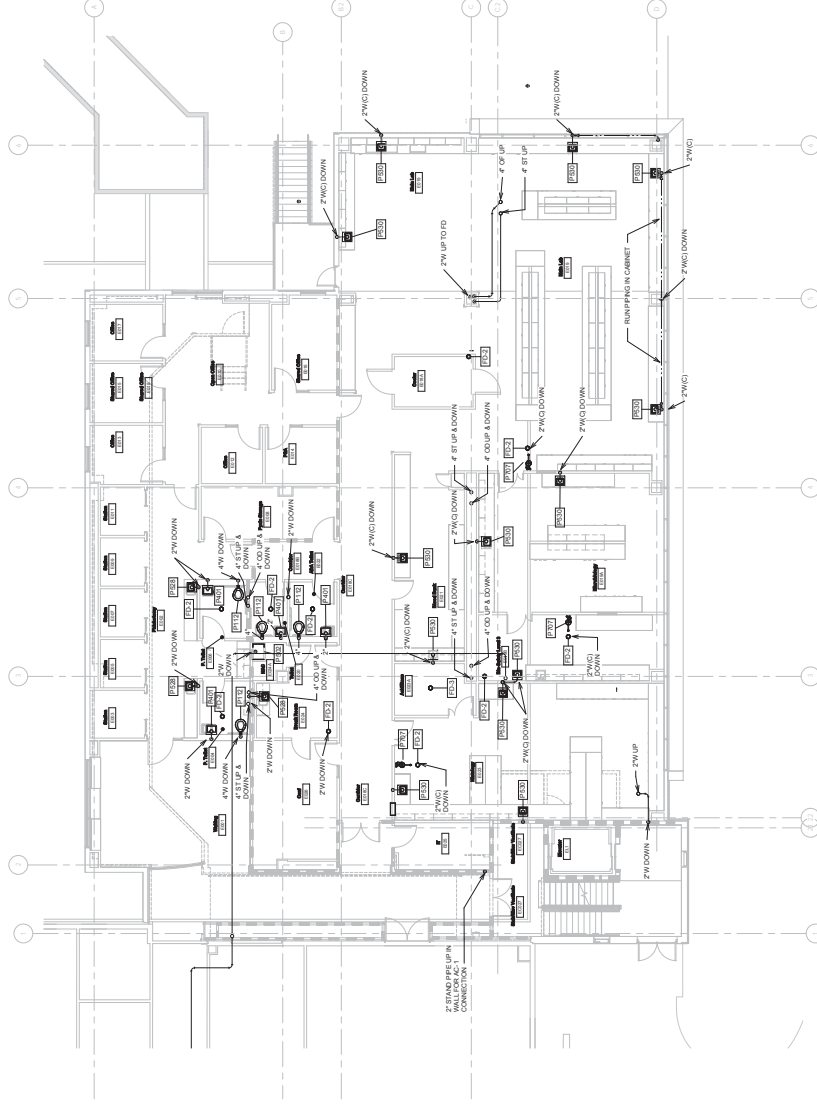


**GENERAL NOTES:**

1. ALL PIPING ABOVE SLAB/GROVE UNLESS NOTED OTHERWISE

**PLAN NOTES:**

- 1 PROVIDE CLEANOUT INTAKE BASE OF ALL RISERS
- 2 WALL CLEANOUT
- 3 CONNECT TO EXISTING 8" STORM NEAR THIS LOCATION AND DROP BELOW NEW BASEMENT SLAB



First Floor-Plumbing - Sanitary & Venting Floor Plan

First Floor-

[illegible]

CONSULTANTS:	
<b>Structural</b>	
McCombs Engineers 7771 E. 196th Street Torrance, IL 60602 Tel. 312/226-0266 Fax 312/226-0266	F&M
<b>Civil</b>	
Assaultin Eskin & Assoc. 1440 Old West (Main Campus) Carrollton, IL 60001 Tel. 618/529-7423 Fax 618/529-7423	F&M
<b>Industrial Hygiene</b>	
John A. Jung & Assoc. 123 N. Main Street St. Charles, IL 63301 Tel. 618/529-7423 Fax 618/529-7423	F&M
<b>Geotechnical</b>	
Holmsted Foundation 393 Wood Road Carrollton, IL 60001 Tel. 618/529-7423 Fax 618/529-7423	F&M

0120-04074  
REGISTERED  
PROFESSIONAL  
ENGINEER

ARCHITECT/ENGINEER  
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**FoxArchitects**  
1 Memorial Dr. STE 1800  
Saint Louis, MO 63102  
Tel 314.621.4343  
314.621.0261  
Fax

Drawing No.	<b>FIRST FLOOR - SANITARY</b>	<u>Approved Associate Architect</u>	<u>Approved Chief Engineer</u>
		<u>Approved Chief of Staff</u>	<u>Approved Safety Officer</u>
		<u>Approved Infection Control</u>	<u>Approved Chief Police &amp; Security</u>

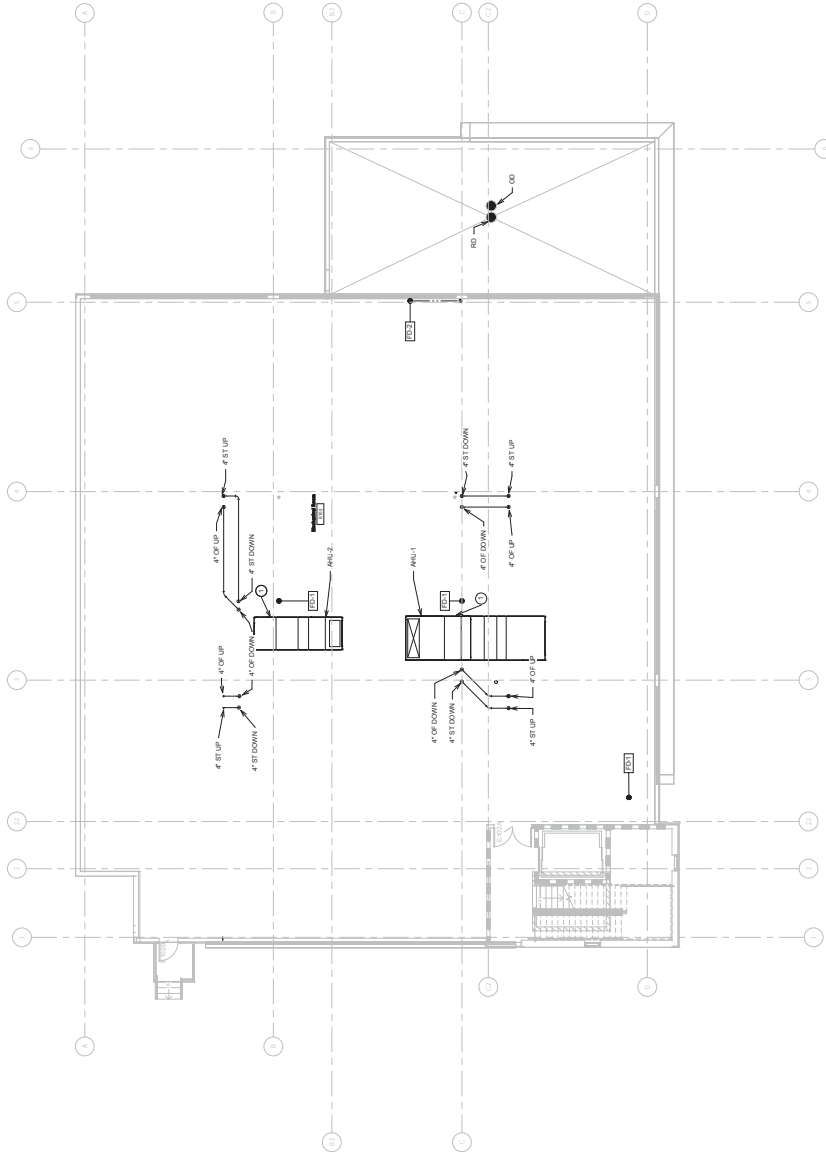
Project Title	Expand & Upgrade Building 42 for Laboratory		
	Location Marion, IL		
Date	12-20-17	Checked	Drawn
		DH	BZ

Project Number 657-502	Building Number 42-Addition	Drawing Number PL-103
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**PLAN NOTES:**

- ① PRE-Z CORPERS CONDENSATE DRAIN TO CROAK LITE FEEDER DRAIN.



Second Floor Mezzanine Plumbing - Sanitary, Storm, & Venting Floor Plan  
1/8" = 1'-0"

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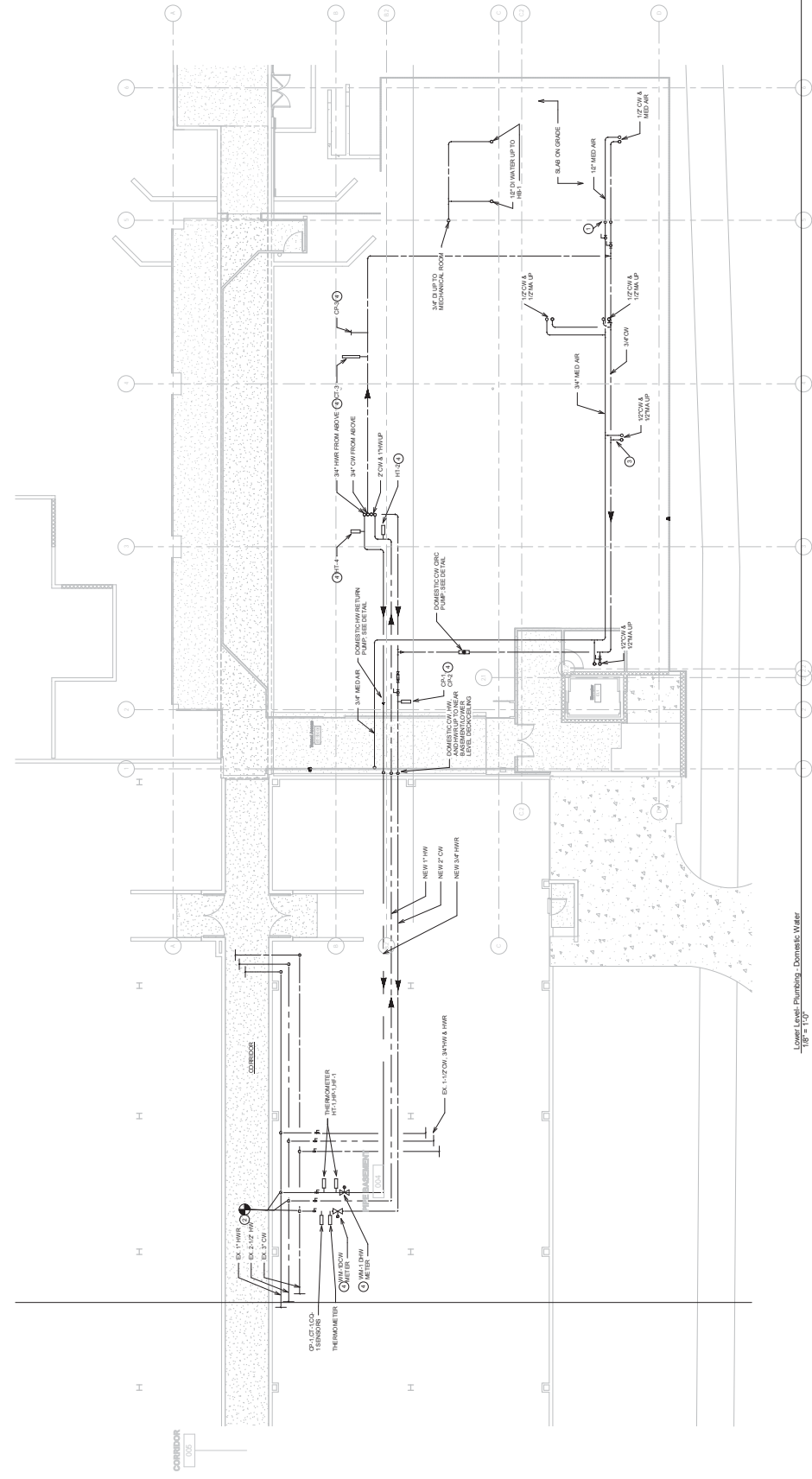
Revision	Date	Consultants:	Architect/Engineers:	Project No.	Project Name	Project Number	Office of Facilities Management
		<p><b>Structural</b> McConnell Engineers Chris E. McConnell 1400 West 11th Street Tulsa, Oklahoma 74103 Tel: 311.580.0022 Fax: 311.580.0066</p> <p><b>Civil</b> Ashliken Edson &amp; Assoc. 4400 West 11th Street Tulsa, Oklahoma 74103 Tel: 618.529.3414 Fax: 618.529.3423</p> <p><b>Industrial/General</b> John A. Wright &amp; Assoc. 3700 West 11th Street Tulsa, Oklahoma 74103 Tel: 618.529.3414 Fax: 618.529.3423</p> <p><b>Geotechnical</b> Historic Foundation 29 Wood Street Tulsa, Oklahoma 74103 Tel: 618.529.5262 Fax: 618.529.5262</p>	<p><b>ARCHITECT/ENGINEERS:</b></p> <p><b>DAE</b> 220 N. College Ave. Tulsa, Oklahoma 74103 Tel: 311.464.9793 Fax: 311.464.9793</p> <p><b>Fox Architects</b> 220 N. College Ave. Tulsa, Oklahoma 74103 Tel: 311.464.9793 Fax: 311.464.9793</p>	<p><b>SECOND FLOOR MEZZANINE - SANITARY</b> Sanitary Drainage System Associated Chief of Staff Associated Chief of Staff Associated Chief of Staff</p>	<p><b>Expand &amp; Upgrade Building 42 for Laboratory</b> Location: Marion, IL Phase: 12-20-17 Discipline: DH Discipline: BZ</p>	<p><b>PL-104</b> 42-Addition PL-104</p>	<p><b>Office of Facilities Management</b> VA U.S. Department of Veterans Affairs</p>







PIPE BASEMENT  
007



Lower Level Plumbing - Domestic Water  
1/8\"/>

- PLAN NOTES:**
- 1. SEE SHEET 006 FOR DETAILS TO BELOW S/LB
  - 2. SEE SHEET 006 FOR DETAILS TO BELOW S/LB
  - 3. CONNECT TO EXISTING NEAR THIS LOCATION
  - 4. SHUT OFF ASLE TYPICAL OF ALL BRANCHED
  - 5. SEE SHEET 006

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CONSULTANTS:		ARCHITECT/ENGINEERS:		LOWER LEVEL - PIPING PLAN		Project Title		Project Number	
Structural McCombs Engineers 1711 E. 19th Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		Generalist Hickory Foundation 220 N. College Ave. Indianapolis, IN 46202 Tel 317.444.9793 Fax 317.444.9793		Fox Architects 11 Memorial Dr., STE. 1000 Spartanburg, SC 29301 Tel 803.531.3711 Fax 803.531.3753		Expand & Upgrade Building 42 for Laboratory 42-Addition		Drawing Number	
Civil Ashten Eton & Assoc. 4400 West 11th Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		Industrial Special John A. Wright & Assoc. 375 E. 1st Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		DAE 2000 E. 1st Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		Location: Marion, IL		Drawing Number	
MEP Ashten Eton & Assoc. 4400 West 11th Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		MEP John A. Wright & Assoc. 375 E. 1st Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		Woods 11000 E. 1st Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		Account: Labor Office		Drawing Number	
Electrical Ashten Eton & Assoc. 4400 West 11th Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		Electrical John A. Wright & Assoc. 375 E. 1st Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		Woods 11000 E. 1st Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		Account: Labor Office		Drawing Number	
Plumbing Ashten Eton & Assoc. 4400 West 11th Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		Plumbing John A. Wright & Assoc. 375 E. 1st Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		Woods 11000 E. 1st Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		Account: Labor Office		Drawing Number	
HVAC Ashten Eton & Assoc. 4400 West 11th Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		HVAC John A. Wright & Assoc. 375 E. 1st Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		Woods 11000 E. 1st Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		Account: Labor Office		Drawing Number	
Fire Protection Ashten Eton & Assoc. 4400 West 11th Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		Fire Protection John A. Wright & Assoc. 375 E. 1st Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		Woods 11000 E. 1st Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		Account: Labor Office		Drawing Number	
Other Ashten Eton & Assoc. 4400 West 11th Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		Other John A. Wright & Assoc. 375 E. 1st Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		Woods 11000 E. 1st Street Cedar Rapids, IA 52401 Tel 319.380.0802 Fax 319.380.0806		Account: Labor Office		Drawing Number	
Project No.		Project No.		Project No.		Project No.		Project No.	
657-502		657-502		657-502		657-502		657-502	
42-Addition		42-Addition		42-Addition		42-Addition		42-Addition	
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BZ		BZ		BZ		BZ		BZ	
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First Floor-Plumbing - Domestic Water  
 $\frac{1}{R''} = 1.0''$

Signature	Date	<p><b>CONSULTANTS:</b></p> <p><b>Structural</b> McGraw Engineers 10000 Highway 100 Carmel, IN 46032 Tel 317.829.9922 Fax 317.829.9943</p> <p><b>Civil</b> Ashland Edison Assoc. 10000 Highway 100 Carmel, IN 46032 Tel 317.829.9922 Fax 317.829.9943</p> <p><b>Geotechnical</b> Horrodt Foundation 10000 Highway 100 Carmel, IN 46032 Tel 317.829.9922 Fax 317.829.9943</p>	<p><b>ARCHITECT/ENGINEERS:</b></p> <p><b>DAE</b> 220 S College Ave Indianapolis, IN 46202 Tel 317.464.9090 www.dae-engineers.com Fax 317.464.9393</p> <p><b>Fox Architects</b> 11000 E. 8th St. 1000 Suite 1000 Indianapolis, IN 46240 Tel 317.441.0513 Fax 317.441.0503</p>	<p><b>Project Mgr.</b> Expand &amp; Upgrade Piping Plan</p> <p><b>Project Mgr.</b> Expand &amp; Upgrade Building 42 for Laboratory</p> <p><b>Project Number</b> 42-Addition</p> <p><b>Order Number</b> PP-202</p> <p><b>Location</b> Marens, IL</p> <p><b>Title</b> 12-26-17</p> <p><b>Drawn</b> DH</p> <p><b>Checked</b> BZ</p>	<p><b>Office of Facilities Management</b></p> <p><b>VA</b> U.S. Department of Veterans Affairs</p>
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