



Diagram illustrating the components of a pump assembly:

- PIPE HANGERS - PROVIDE DOUBLE-DEFLECTION NEOPRENE (TYPE HN) FOR FIRST TWO ON EACH SIDE OF PUMP (SEE NOTE NO. 1)**
- BALANCING DEVICE**
- PRESSURE GAGE**
- 1/2" [15mm]**
- BALL OR BUTTERFLY TYP.**
- FLEXIBLE CONNECTION**
- STRAINER**

- NOTES:
1. SUPPORT PUMP FROM PIPING ONLY. DO NOT SUPPORT PUMP FROM MOTOR.
  2. SUPPLY BALANCING VALVE IF NOT SUPPLIED WITH HEAT EXCHANGER. CONSULT WITH HEAT EXCHANGER MANUFACTURER.

**PIPE SLEEVE WHERE SPECIFIED**

**PIPE**

**RISER CLAMP**

**BOLT**

**PLAN**

**FIRE-STOPPING MATERIAL**

**RISER CLAMP**

**INSULATION**

**BOLT (TYPICAL)**

**FLOOR SLAB**

**PIPE SLEEVE WHERE SPECIFIED**

**RISER CLAMP, BOTTOM CLAMP REQUIRED AT ANCHOR POINTS ONLY.**

**ELEVATION**

**NOTES:**

1. PROVIDE ANCHORS ONLY WHERE SHOWN ON DRAWINGS.
2. EXTEND SLEEVE ABOVE FLOOR WHERE SPECIFIED.

The image contains two sets of technical drawings for adjustable clevis hangers. The left set is for 'ADJUSTABLE CLEVIS HANGER TYPE 1' and the right set is for 'ADJUSTABLE CLEVIS HANGER TYPE 43'. Each set includes a top view and a side view. Labels with leader lines identify components: HANGER ROD, INSULATION (VAPOR BARRIER TYPE IS REQUIRED FOR LOW TEMPERATURE PIPE), PROVIDE HIGH COMPRESSIVE STRENGTH INSULATION (9 PSF MIN. DENSITY) UNDER INSULATION SHIELD, INSULATION SHIELD AT HANGER, WELD, and SADDLE. Dimensions are provided in both inches and millimeters. For Type 1, the insulation shield insert is 8" (200mm) min. For Type 43, the hanger rod is 1/2" (15mm) dia., the channel is 36" (900mm) with max. spacing on each channel, and the band is 1-5/8" (43mm) 12 GAUGE channel or 2"x2"x1/4" (50x50x6.4mm) ANGLE. A side view dimension shows a maximum height of 100mm.

**ADJUSTABLE CLEVIS HANGER TYPE 1** —  
SEE SPECIFICATIONS

PROVIDE INSULATION SHIELD  
INSERT FOR ALL PIPING  
(8" [200mm] MIN.)

**ADJUSTABLE CLEVIS HANGER TYPE 43** —  
SEE SPECIFICATIONS

1/2" [15mm] DIA.  
HANGER RODS WITH  
36" [900mm] MAX.  
SPACING ON EACH  
CHANNEL

1-5/8" [43mm] 12 GAUGE  
CHANNEL OR 2"x2"x1/4"  
[50x50x6.4mm] ANGLE

MAX. 100mm

NOTES:  
SEE SPECIFIER FOR DETAILED  
HANGER REQUIREMENTS

SIDE TRAPEZE HANGER FOR UP TO 1000 LB. [453KG] UNIFORM LOAD												
MAXIMUM PIPE/TUBING SUPPORT SPACING												
NOM. SIZE	IN. [mm]	THRU [in] 20	1/25	1/32	1/40	1/50	2	1 1/2	3	4	5	6
PIPE	FT. [mm]	[2100]	[2100]	[2100]	[2700]	[3000]	[3400]	[3700]	[4100]	[4900]	[5200]	[5800]
TUBING	5 FT [mm]	[1500]	[1800]	[2100]	[2400]	[2400]	[2700]	[3000]	[3700]	[4000]	[4100]	[4900]

Diagram illustrating a U-shaped pipe layout with dimensions and components:

- LONG RADIUS ELBOW (TYPICAL)**: Points to the curved sections of the pipe.
- PIPE ALIGNMENT GUIDES (TYPICAL)**: Points to the horizontal guide lines for the pipe.
- W**: Dimension indicating the width of the U-shaped section.
- H**: Dimension indicating the height of the U-shaped section.
- SUPPLY**: Label for the inlet pipe on the right.
- RETURN (NOT APPLICABLE)**: Label for the outlet pipe on the left.
- W + 25 FT. [7.6m]**: Dimension indicating the total width of the layout, including the straight sections.
- APPROXIMATE MINIMUM**: Label for the dimension W + 25 FT. [7.6m].
- PLAN**: Label for the diagram.

EXPANSION LOOP		
LOOP NO.	W	H
SL1	2'-4"	4'-8"

Diagram illustrating the Elevation view of a roof drain assembly. Key components and dimensions shown include:

- PROVIDE UNION UNLESS SAFETY VALVE HAS FLANGED OUTLET
- SAFETY VALVE
- 3" [76mm]
- OPEN DRAIN (NOTE 3)
- CONNECTION TO PRESSURE VESSEL OR PIPE
- 2 1/2" MAX. [610mm]
- VENT PIPE THROUGH ROOF SUPPORT AS INDICATED ON DWGS. (NOTES 1, 2)
- PIPE THREADED INTO ELBOW (SAME SIZE AS ELBOW)
- DRIP PAN ELBOW (SECTIONAL VIEW)
- FLEXIBLE CONNECTOR
- 3/4" [20mm] DRAIN TO FLOOR DRAIN OR OPEN SIGHT DRAIN (NOTE 4)

**ELEVATION**

NOTES:

- NOTES:**
1. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, SIZE THE VENT PIPE SO THAT STEAM IS NOT BLOWN OUT AT THE VENT PIPE ENTRANCE. UTILIZE THE CALCULATION METHOD CONTAINED IN ANSI B31.1. POWER PIPING CODE, APPENDIX II.
2. VENT PIPE SHALL TERMINATE 6' [1829mm] MIN. ABOVE FINISHED ROOF.
3. DISCHARGE OF DRAIN MUST BE DIRECTED AWAY FROM PLATFORMS OR OTHER AREAS WHICH PERSONNEL MAY OCCUPY.
4. DO NOT CONNECT ANY OTHER DRAIN TO THE DRIP PAN ELBOW DRAIN PIPE.
- OPEN SIGHT DRAIN  
(NOTE 4)

The diagram illustrates a water softener system. At the top, a cross-section of a cylindrical tank is shown, labeled 'DIAPHRAGM EXPANSION TANK'. A 'TANK SADDLE' is mounted on the side of the tank. A 'HANGER ROD SUPPORTS (TYPICAL)' are shown at the top of the tank. A 'CONNECTOR PIPE' leads from the tank saddle to a '1/2" F' fitting. The pipe is labeled 'PITCH UP 1.6% SLOPE (MIN.)'. Below the tank, a '3" CW SUPPLY TO WATER SOFTENER' line is shown. This line includes a 'UNION AS REQ'D. FOR ISOLATION' and a 'REDUCE PRESSURE TO 60 PSIG. 85 GPM PEAK FLOW 65 GPM CONTINUOUS FLOW.' section. The line then splits into two paths: one leading to a '3" CW SUPPLY TO WATER SOFTENER' and another leading to a '3" CW SUPPLY TO NEW HEAT EXCHANGER AND FUTURE EXPANSION.' line. A 'NOTE 1: REDUCED PRESSURE BACKFLOW PREVENTER' is shown on the left, connected to the 'CW FILL' line. A 'NOTE 2: WATER SOFTENER' is shown in the center, connected to the '3" CW SUPPLY TO WATER SOFTENER' line. A 'NOTE 3' is shown on the right, connected to the '3" CW SUPPLY TO NEW HEAT EXCHANGER AND FUTURE EXPANSION.' line. The 'CW FILL' line is labeled 'F-D' and 'CW FILL'. The '3" CW SUPPLY TO WATER SOFTENER' line is labeled '3" CW SUPPLY TO WATER SOFTENER'. The '3" CW SUPPLY TO NEW HEAT EXCHANGER AND FUTURE EXPANSION.' line is labeled '3" CW SUPPLY TO NEW HEAT EXCHANGER AND FUTURE EXPANSION.' and '2 1/2" CW'. The 'REDUCE PRESSURE' section is labeled 'REDUCE PRESSURE TO 60 PSIG. 85 GPM PEAK FLOW 65 GPM CONTINUOUS FLOW.'.

EXISTING  
TOWEL MACHINES

NOTE 1:  
REDUCED PRESSURE  
BACKFLOW PREVENTER

3" CW SUPPLY  
TO WATER  
SOFTENER

REDUCE PRESSURE  
TO 60 PSIG.  
85 GPM PEAK FLOW  
65 GPM CONTINUOUS FLOW.

UNION AS  
REQ'D. FOR  
ISOLATION

NOTE 2  
WATER  
SOFTENER

NOTE 3

2 1/2" CW

3" CW SUPPLY  
TO WATER SOFTENER

3" CW SUPPLY  
TO NEW  
HEAT EXCHANGER  
AND FUTURE EXPANSION.

DIAPHRAGM  
EXPANSION  
TANK

TANK SADDLE

HANGER ROD  
SUPPORTS (TYPICAL)

CONNECTOR PIPE

1/2" F

PITCH UP 1.6%  
SLOPE (MIN.)

3" CW SUPPLY  
TO WATER  
SOFTENER

3" CW SUPPLY  
TO NEW  
HEAT EXCHANGER  
AND FUTURE EXPANSION.

2 1/2" CW

NOTE 1:  
REDUCED PRESSURE  
BACKFLOW PREVENTER

NOTE 2:  
WATER  
SOFTENER

NOTE 3

REDUCE PRESSURE  
TO 60 PSIG.  
85 GPM PEAK FLOW  
65 GPM CONTINUOUS FLOW.

UNION AS  
REQ'D. FOR  
ISOLATION

3" CW SUPPLY  
TO WATER  
SOFTENER

3" CW SUPPLY  
TO NEW  
HEAT EXCHANGER  
AND FUTURE EXPANSION.

2 1/2" CW

DIAPHRAGM  
EXPANSION  
TANK

TANK SADDLE

HANGER ROD  
SUPPORTS (TYPICAL)

CONNECTOR PIPE

1/2" F

PITCH UP 1.6%  
SLOPE (MIN.)

10 x DIA.1 (MIN.)  
FROM 1ST TURN TO PRV

20 x DIA.1 (MIN.)  
FROM PRV TO 1ST TURN

10 x DIA.2 (MIN.)  
FROM LAST VALVE OR FITTING

VENT TO DAYLIGHT.  
6'-0" MIN.  
ABOVE ROOF

NOTE 1

SIPHON (TYP.)

PILOT CONTROL LINE

SPRV1

DIA.1

DIA.2

REDUCER IF REQUIRED. (TYP.)

PSV

NOTE 1

NOTE:  
FOR SPRV1  
DIAMETER 1 = 2"  
DIAMETER 2 = 2 1/2"  
FOR SPRV2  
DIAMETER 1 = 3"  
DIAMETER 2 = BY HEAT EXCHANGER MFGR.

- NOTES:**
1. SEE FLOOR PLANS FOR SUPPLY PIPE SIZE TO THE SPRV, AND FOR THE DISCHARGE SIZE FROM THE SPRV TO THE SPACE HEATING EQUIPMENT.
  2. SEE EQUIPMENT SCHEDULES FOR VALVE DATA. INSTALL VALVES PER THE MANUFACTURERS RECOMMENDATIONS.
  3. PROVIDE NECESSARY UNIONS FOR THE REMOVAL OF VALVES/SPECIALTIES WITH SCREWED CONNECTIONS.

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BID DOCUMENTS  
FOR CONSTRUCTION

		CONSULTANTS:		<div><div>19 March 2015</div><div>STATE OF KENTUCKY</div><div>BLAINE GABRIEL VAN GANSBEKE</div><div>SALES</div><div>EXPIRATION DATE 03/15/2018</div><div>LICENSEE</div><div>MONTGOMERY ENGINEERS AND CONSTRUCTORS</div></div>		ARCHITECT/ENGINEERS:		<div><div>PARADIGM</div><div>ENGINEERS AND CONSTRUCTORS</div><div>200 Envoy Circle #201, Louisville KY 40299 ~ PH: 502.339.8511 ~ <a href="http://www.paradigmusa.com">www.paradigmusa.com</a></div></div>		<div>Drawing Title</div> <div>PLUMBING DETAILS</div> <div>Approved Project Director</div> <div>Control Number</div> <div>VA256-14-C-0112</div> <div>PO Number</div> <div>C40110</div>		<div>Project Title</div> <div>RENOVATE STERILE PROCESSING SERVICES</div> <div>Location</div> <div>JACK C. MONTGOMERY VAMC</div> <div>101 HONOR HEIGHTS DRIVE, MARIETTA, OK</div> <div>Date</div> <div>3/10/2015</div> <div>Checked</div> <div>KLP</div> <div>Drawn</div> <div>JDF</div>		<div>Project Number</div> <div>623-14-103</div> <div>Building Number</div> <div>1</div> <div>Drawing Number</div> <div>PP502</div>		Office of Construction and Facilities Management	
Revisions:		Date															

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three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot

PLUMBING FIXTURE SCHEDULE											
TAG	DESCRIPTION	DRAINAGE FIXTURE UNITS	WATER SERVICE FIXTURE UNITS			WASTE PIPE SIZE IN	VENT PIPE SIZE IN	CW PIPE SIZE IN	HW PIPE SIZE IN	ELECTRIC SENSOR	REMARKS
			CW	HW	TOTAL						
FD-R1	FLOOR DRAIN	2	—	—	—	4.0	2.0	—	—	—	TYPE R — BODY COATED WITH ACID RESISTANT ENAMEL FINISH WITH SECONDARY DOME STRAINER AND WITHOUT GRATE, 8 IN. SQUARE.
FD-R2	FLOOR DRAIN	2	—	—	—	4.0	2.0	—	—	—	TYPE R — BODY COATED WITH ACID RESISTANT ENAMEL FINISH WITH SECONDARY DOME STRAINER AND WITHOUT GRATE, 8 IN. SQUARE. 2" HOLE IN GRATE.
P708	EMERGENCY EYE AND FACE WASH	—	—	—	—	1.5	1.5	0.75	0.75	—	WALL MOUNTED, CRS-STAINLESS STEEL RECEPTOR, HAND OPERATED, WITH P-TRAP, HAWS COMPANY OR EQUAL (SIMILAR TO EXISTING)

EXPANSION TANK SCHEDULE														
TAG	LOCATION	SYSTEM AND/OR SERVICE	TYPE	APPROX. SYSTEM VOLUME	SYSTEM TEMPERATURE RANGE		MIN. INITIAL FILL OR OPERATING PRESSURE	MAX. OPERATING PRESSURE	HEATER RELIEF VALVE SET POINT	MIN. VOLUME TANK	MIN. BLADDER VOLUME	PIPE SIZE TO TANK	COLD WATER FILL SIZE	NOTES
					MIN.	MAX.								
					GAL	°F								
ET1	BLDG. 24	STERILIZERS	BLADDER	65	40	135	35	135	150	10	5	---	---	1
1. FOR POTABLE WATER USE.														

STEAM PRESSURE REDUCING VALVE SCHEDULE							
TAG	LOCATION	STEAM PRESSURE PSIG		MAX FLOW WIDE OPEN VALVE LB/HR	CAPACITY LB/HR	SYSTEMS SERVED	NOTES
		INLET	OUTLET				
SPRV1	SUB-BASEMENT BUILDING 24	100	75		1,850	RELIANCE 1227 CART WASHER	1
SPRV2	SUB-BASEMENT BUILDING 24	100	15		3,300	PROCESS WATER FOR STERILIZERS	2
1. BASED ON ARMSTRONG MODEL GP-2000 2. VALVE TO BE PACKAGED WITH HEAT EXCHANGER (LESLIE OR EQUAL)							

STEAM PRESSURE RELIEF VALVE SCHEDULE						
TAG	LOCATION	SYSTEM AND/OR SERVICE	MINIMUM CAPACITY LBS/HR	TEMPERATURE °F	SET PRESSURE PSIG	NOTES
PSV1	SEE PLAN	SPRV1	NOTE 1	---	90	---
PSV2	SEE PLAN	SPRV2	NOTE 1	---	NOTE 2	---
1. CAPACITY BASED ON SPRV SELECTION FOR MAXIMUM FLOW 2. BASED ON HEAT EXCHANGER MFGRS RECOMMENDATION.						

STEAM TO WATER HEAT EXCHANGER											
TAG	LOCATION	SYSTEM/ SERVICE	TYPE	WATER CONDITIONS				STEAM PRESSURE			NOTES
				GPM	EWT	LWT	WPD	ENT PRV VALVE	ENT HEAT EX.	CAPACITY, LB/HR	
HX1	SUB-BASEMENT BUILDING 24	STERILIZERS	CONTANT TEMP	50	40	130	—	100	15	2,600	1,2,3
1. SKIDDED, CONSTANT TEMP UNIT WITH STEAM PRESSURE REDUCING VALVE, HEAT EXCHANGER, RECIRCULATION KIT. LESLIE OR EQUAL. 2. PROVIDE REDUNDANT HEATING COIL AND MIXING VALVE ASSEMBLY. LESLIE OR EQUAL. 3. UNIT TO HAVE CARBON STEEL SHELL WITH ANSI RATING OF 150 PSIG.											

PUMP SCHEDULE																		
TAG	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	TYPE	CIRCULATING FLUID								ELECTROCAL MOTOR			SPEED CONTROL	NOTES	
					FLUID	FLOW	HEAD	NPSH AVAILABLE	TEMP.	SP GR.	MIN. % EFF	NOMINAL POWER	PHASE	VOLT	MAX RPM			
						GPM	FT											FT
P1	BLDG. 24	SPS	STERILIZERS	INLINE	WATER	3.0	15.0			130°					1ø	120	---	

STEAM TRAP SCHEDULE											
TAG	LOCATION	SYSTEM AND/OR SERVICE	CAPACITY LBS/HR	SIZING SAFETY FACTOR RATIO	ACTUAL SIZING CAPACITY LBS/HR	MIN DIFFERENTIAL PRESSURE PSI	MIN INLET PRESS PSI	TRAP TYPE	TRAP SIZE IN		NOTES
ST1	SEE PLAN	DRIP TRAP	50	2:1	100	70	75	IB	3/4"		1
ST2	SEE PLAN	DRIP TRAP	50	2:1	100	70	75	IB	3/4"		1
ST3	SEE PLAN	RISER DRIP	50	2:1	100	70	75	IB	3/4"		1
ST4	SEE PLAN	CART WASHER	900	2:1	1800	70	75	FT	3/4"		2
ST5	SEE PLAN	FLASH TANK	1500	2:1	3000	0.5	0	FT	2"		3
1. BASED ON ARMSTRONG MODEL 800, #38 ORIFICE. 2. BASED ON ARMSTRONG MODEL 75-A15 3. BASED ON ARMSTRONG MODEL 15-B8											

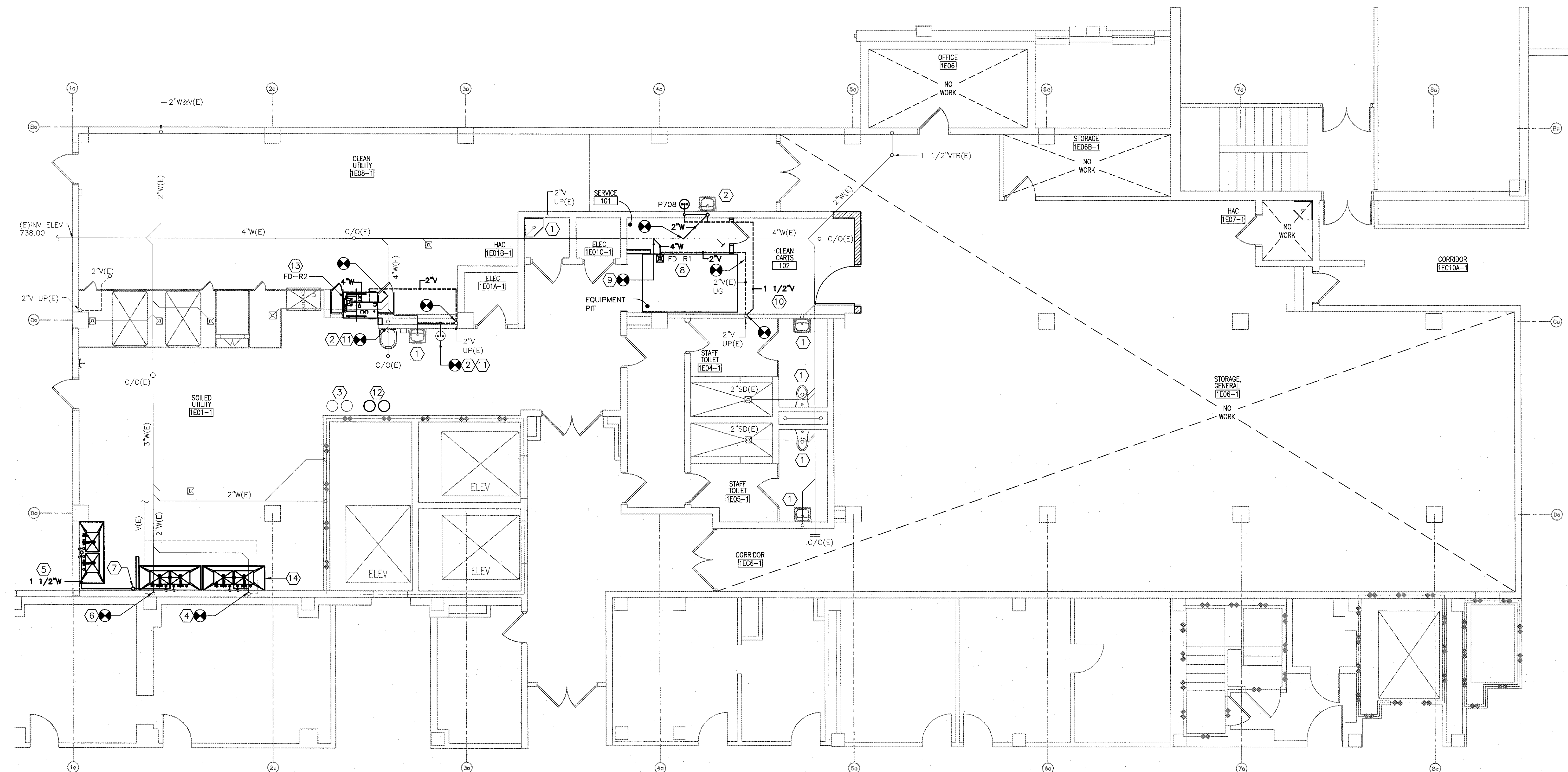
WATER SOFTENER SCHEDULE																			
TAG	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	TYPE	INCOMING WATER HARDNESS	CONTINUOUS FLOW RATE	PEAK FLOW RATE	INLET PRESSURE	BACK WASH FLOW RATE	CAPACITY/SALT DOSAGE				TANK SIZE (DIA.)	SALT CAPACITY OF BRINE TANK	POWER REQUIRED			NOTES
										SALT DOSAGE	MIN. BED (SUBFL OF SAND)	MAX. BED							
					PPM	GPM [L/s]	GPM [L/s]	PSIG [kPa]	GPM [L/s]	LBS/OUT	[LB]	[LB]	IN [mm]	LB [KG]	AMP	PHASE	VOLT		
WS1	BLDG 24	SPS	-	-	117.47	65	85	60	15	10	11	33	24	600	1	1ø	120	1	
1. UNIT SIZED FOR FUTURE EXPANSION																			

FLASH TANK SCHEDULE												
TAG	LOCATION	CONDENSATE TEMP	FLASH PRESSURE	CAPACITY	FLASH STEAM OUT	CONDENSATE OUT	PERCENT FLASH	CONFIGURATION	TANK DIA.	TANK LENGTH	VENT DIA.	NOTES
		°F	PSIG	LBM/HR	LBM/HR	LBM/HR			IN	IN	IN (NOMINAL)	
FT1	SERVICE 101	320	0	1500	170	1330	11.3	VERTICAL	6"	36"	2 1/2"	1
1. BASED ON ARMSTRONG VAF7												

<div>Revisions</div> <div>Date</div>		CONSULTANTS:		<div>STATE OF KENTUCKY BLAINE CAMEL VAN GANSBENE 24,788 LICENSED PROFESSIONAL ENGINEER</div>		ARCHITECT/ENGINEERS: <div>PARADIGM ENGINEERS AND CONSTRUCTORS 200 Envoy Circle #201, Louisville KY 40299 — PH: 502.339.8511 — www.paradigmusa.com</div>		Drawing Title PLUMBING SCHEDULES		Project Title RENOVATE STERILE PROCESSING SERVICES		Project Number 623-14-103 Building Number 1		Office of Construction and Facilities Management			
								Approved Project Director		Control Number VA256-14-C-0112		Location JACK C. MONTGOMERY VAMC 101 HONOR HEIGHTS DRIVE, MARIETTA, GA		Drawing Number PP601			
										Date 3/10/2015		Checked KLP		Drawn JDF			



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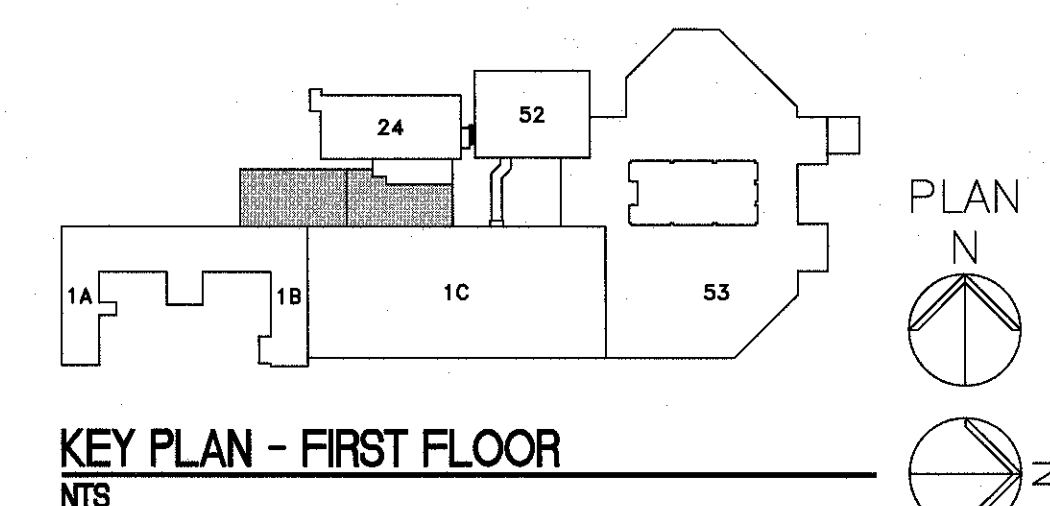
1 1ST FLOOR PLAN  
3/16" = 1'-0"

#### NOTES

- REFER TO DRAWING P-001 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES RELATED TO THIS SHEET.
- COORDINATE ALL WORK WITH DRAWINGS FROM OTHER TRADES PRIOR TO DEMOLITION. NOTIFY THE G.C./COR WITH ANY CONFLICTS.
- ALL EXISTING PIPING, DUCTWORK, SPRINKLERS, CONDUIT, LIGHTING OR OTHER CONSTRUCTION SHALL BE RELOCATED AS NECESSARY FOR ALL DEMOLITION AND INSTALLATION WORK.
- CONTRACTOR TO MINIMIZE CEILING DISTURBANCE IN ALL AREAS. GENERAL CONTRACTOR TO SUPPLY AND INSTALL 24"x24" ACCESS PANELS AS NECESSARY TO COMPLETE PLUMBING WORK. COORDINATE NEW ACCESS PANELS LOCATIONS WITH THE GC/COR. ACCESS TO CEILING AREA MAY ALSO BE AVAILABLE VIA THE EXISTING LIGHT FIXTURES. CONSULT WITH THE GC/COR.
- COORDINATE ALL WORK WITH THE VA FOR ACCESS TO MAINTAIN PLUMBING SERVICES TO CRITICAL AREAS. EXPECT MOST OF THE WORK TO OCCUR AFTER NORMAL WORKING HOURS AND SERVICES RESTORED BY THE NEXT WORK DAY.

#### KEY NOTES

- EXISTING PLUMBING FIXTURE TO REMAIN.
- NEW LOCATION FOR EXISTING PLUMBING FIXTURE. REPLACE FIXTURE TRAP AND TAILPIECE. MATCH EXISTING. SEE DRAWING PD102 FOR PREVIOUS LOCATION.
- EXISTING DEIONIZED WATER TANKS TO REAMIN.
- CONNECT WASTE PIPE FROM NEW FIXTURE TO EXISTING SANITARY PIPE THROUGH WALL.
- RUN NEW 1 1/2" SANITARY PIPE EXPOSED, ALONG WALL TO NEW FIXTURE. CONNECT SANITARY TO EXISTING SANITARY PIPE THROUGH WALL.
- CONNECT TWO (2) NEW DECONTAMINATION SINKS TO EXISTING SANITARY PIPE THROUGH WALL.
- NEW 1 1/2" VENT PIPE. CONNECT TO NEW SANITARY PIPE RUNNING ALONG WALL. RUN VENT PIPE EXPOSED, UP WALL, THROUGH CEILING, AND OVER TO EXISTING VENT PIPE. UTILIZE EXISTING ACCESS PANEL TO FACILITATE WORK. FIELD VERIFY EXACT TIE-IN LOCATION. CONTRACTOR TO MINIMIZE CEILING DISTURBANCE. CONSULT WITH THE COR.
- NEW 8"x8" BY 6" DEEP FLOOR DRAIN/SINK SERVING THE NEW STERIS RELIANCE 1227 CART WASHER. FLOOR SINK TO BE INSTALLED IN THE PIT AREA. CONSULT WITH STERIS REGARDING THE BEST LOCATION FOR THE FLOOR DRAIN/SINK.
- TIE-IN POINT FOR NEW FLOOR SINK. CONTRACTOR TO VERIFY TIE-IN POINT AND INVERT ELEVATION TO INSURE THAT THE REQUIRED PIPE SLOPE CAN BE ACHIEVED. SLOPE OF NEW PIPE TO BE 1/4" PER FOOT MINIMUM.
- NEW 1 1/2" VENT PIPE SERVING NEW HAND SINK. FIELD DETERMINE PIPE ROUTING. TIE-IN TO EXISTING VENT AS SHOWN. COORDINATE WORK. SEE MECHANICAL DRAWING MH101.
- CONNECT FIXTURE TO EXISTING WASTE AND VENT PIPE.
- NEW DE-IONIZED WATER TANKS BY OTHERS. NEW TANKS TO BE SAME SIZE/CAPACITY AS EXISTING.
- NEW 8"x8" BY 6" DEEP FLOOR DRAIN/SINK SERVING THE NEW STERIS RELIANCE VISION UTENSIL WASHER. CONSULT WITH STERIS FOR THE BEST LOCATION FOR THE FLOOR DRAIN/SINK.
- NEW DECONTAMINATION SINK SUPPLIED BY GENERAL CONTRACTOR. TYPICAL OF 3.



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<b>CONSULTANTS:</b>			<b>ARCHITECT/ENGINEERS:</b>		<b>Drawing Title</b> SANITARY AND VENT PLAN - NEW WORK FIRST FLOOR		<b>Project Title</b> RENOVATE STERILE PROCESSING SERVICES		<b>Project Number</b> 623-14-103		<b>Office of Construction and Facilities Management</b>  Department of Veterans Affairs
<b>Approved Project Director</b>			 200 Envoy Circle #201, Louisville KY 40299 - PH: 502.339.8511 - www.paradigmusa.com		<b>Control Number</b> VA256-14-C-0112		<b>Location</b> JACK C. MONTGOMERY VAMC 111 HONOR HEIGHTS DRIVE, MARIETTA, GA		<b>Building Number</b>		
<b>PO Number</b> C40110				<b>Date</b> 3/10/2015		<b>Checked</b> KLP		<b>Drawn</b> JDF		<b>Drawing Number</b> PS101	
<b>Revisions:</b>											







# REFERENCE NOTES

REFER TO SHEET ED102 FOR DEMOLITION WORK ON THIRD FLOOR  
REFER TO SHEET E-101 FOR POWER, LIGHTING AND SYSTEMS WORK IN THIS AREA.  
REFER TO SHEET E-102 FOR POWER, LIGHTING AND SYSTEMS WORK ON THIRD FLOOR.

# GENERAL ELECTRICAL POWER PLAN NOTES

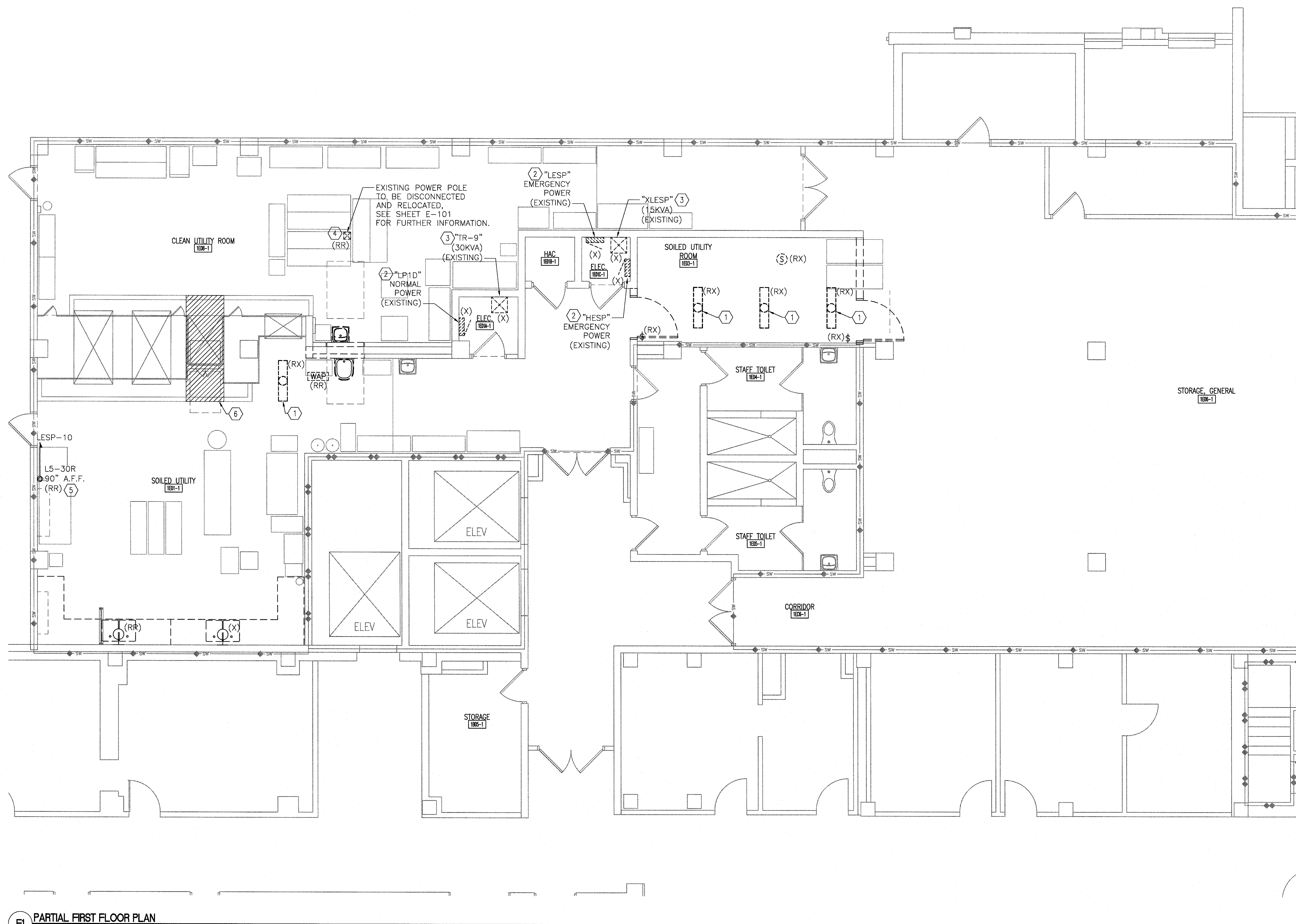
- REFER TO E-001 FOR ELECTRICAL LEGEND, GENERAL NOTES, AND ABBREVIATIONS.
- SOME WORK UNDER THIS CONTRACT WILL REQUIRE WORK DUTIES TO BE PERFORMED AFTER NORMAL WORKING HOURS. DETERMINATION OF SPECIFIC WORK DUTIES TO BE PERFORMED AFTER HOURS SHALL BE MADE BY VA STAFF AT THEIR CONVENIENCE. POSSIBLE WORK REQUIRING AFTER HOURS APPROVAL INCLUDES, BUT IS NOT LIMITED TO: POWER OUTAGES, DISRUPTION OF SERVICES, EXTREME NOISE AND / OR VIBRATION, CUTTING AND PATCHING OF CONCRETE AND DELIVERIES OF EQUIPMENT.
- REFER TO DRAWING EP101 FOR NEW WORK IN THIS AREA.
- DEVICES AND EQUIPMENT SHOWN SHALL BE REMOVED UNLESS NOTED OTHERWISE.
- SCOPE OF WORK SHALL BE LIMITED TO AREAS INDICATED ON FLOOR PLAN.

## RENOVATION NOTATIONS:

- (N) NEW DEVICE OR EQUIPMENT  
(R) LOCATION OF RELOCATED DEVICE OR EQUIPMENT  
(RR) REMOVE AND RELOCATE EXISTING DEVICE OR EQUIPMENT  
(RX) REMOVE EXISTING DEVICE OR EQUIPMENT  
(X) EXISTING DEVICE OR EQUIPMENT TO REMAIN  
(XR) EXISTING DEVICE OR EQUIPMENT TO BE REMOVED, REPLACE WITH NEW DEVICE AT SAME LOCATION

## ELECTRICAL POWER PLAN NOTES

- DISCONNECT AND REMOVE LIGHT FIXTURE, MAINTAIN CIRCUIT CONTINUITY THROUGHOUT TO REST OF LIGHTING CIRCUIT. REFER TO DRAWING E-101 FOR FURTHER INFORMATION.
- ELECTRICAL PANEL IS EXISTING TO REMAIN, REFER TO DRAWING EP101 AND EP601 FOR FURTHER INFORMATION.
- TRANSFORMER IS EXISTING TO REMAIN, SHOWN FOR REFERENCE ONLY. REFER TO DRAWING E-101 FOR FURTHER INFORMATION.
- DISCONNECT EXISTING POWER POLE AND RELOCATE, SEE DRAWING EP101 FOR LOCATION.
- DEDICATED RECEPTACLE FOR "THERMA SURE" DRYER. RELOCATE TO "CLEAN UTILITY ROOM" 1E08-1 AS INDICATED ON SHEET E-101.
- ELECTRICAL CONTRACTOR SHALL RE ROUTE ELECTRICAL CONDUITS IN THIS AREA TO ACCOMMODATE NEW MECHANICAL WORK. SEE MECHANICAL SHEET MH101 FOR FURTHER INFORMATION. COORDINATE WORK WITH MECHANICAL CONTRACTOR AND VA PRIOR TO START OF WORK.



FI PARTIAL FIRST FLOOR PLAN  
1/4" = 1'-0"

KEY PLAN - FIRST FLOOR  
NTS

<b>CONSULTANTS:</b> 		<b>ARCHITECT/ENGINEERS:</b>  200 Envoy Circle #201, Louisville KY 40299 - PH: 502.339.8511 - www.paradigmusa.com		<b>Drawing Title:</b> ELECTRICAL DEMOLITION PLAN FIRST FLOOR		<b>Project Title:</b> RENOVATE STERILE PROCESSING SERVICES		<b>Project Number:</b> 623-14-103		<b>Office of Construction and Facilities Management</b> 
<b>Revisions:</b> 		<b>Approved Project Director:</b> 		<b>Control Number:</b> VA256-14-C-0112		<b>Location:</b> JACK C. MONTGOMERY VAMC 101 HONOR HEIGHTS DRIVE, MUSKOGEE, OK 74401		<b>Building Number:</b> 1		
<b>Date:</b> 		<b>PO Number:</b> C40110		<b>Date:</b> 03/10/2015		<b>Checked:</b> WLM		<b>Drawn:</b> MMF		
								<b>Drawing Number:</b> ED101		



# REFERENCE NOTES

REFER TO SHEET ED101 FOR DEMOLITION WORK ON FIRST FLOOR.  
REFER TO SHEET E-101 FOR POWER, LIGHTING AND SYSTEMS WORK ON FIRST FLOOR.  
REFER TO SHEET E-102 FOR POWER, LIGHTING AND SYSTEMS WORK IN THIS AREA.

# GENERAL ELECTRICAL DEMOLITION PLAN NOTES

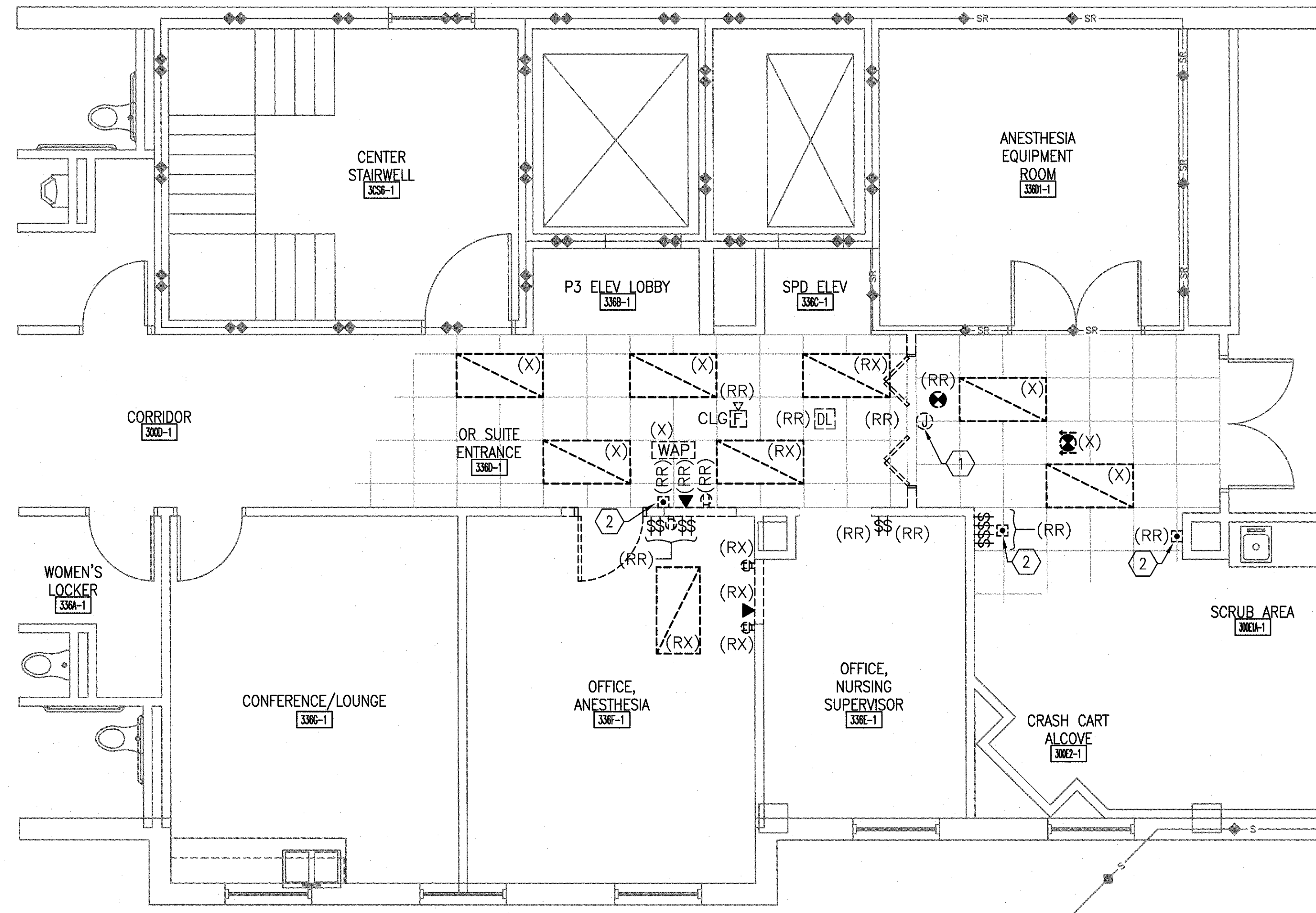
- REFER TO E-001 FOR ELECTRICAL LEGEND, GENERAL NOTES, AND ABBREVIATIONS.
- SOME WORK UNDER THIS CONTRACT WILL REQUIRE WORK DUTIES TO BE PERFORMED AFTER NORMAL WORKING HOURS. DETERMINATION OF SPECIFIC WORK DUTIES TO BE PERFORMED AFTER HOURS SHALL BE MADE BY VA STAFF AT THEIR CONVENIENCE. POSSIBLE WORK REQUIRING AFTER HOURS APPROVAL INCLUDES, BUT IS NOT LIMITED TO: POWER OUTAGES, DISRUPTION OF SERVICES, EXTREME NOISE AND / OR VIBRATION, CUTTING AND PATCHING OF CONCRETE AND DELIVERIES OF EQUIPMENT.
- REFER TO DRAWING E-102 FOR NEW WORK IN THIS AREA.
- DEVICES AND EQUIPMENT SHOWN SHALL BE REMOVED UNLESS NOTED OTHERWISE.
- SCOPE OF WORK SHALL BE LIMITED TO AREAS INDICATED ON FLOOR PLAN.

## RENOVATION NOTATIONS:

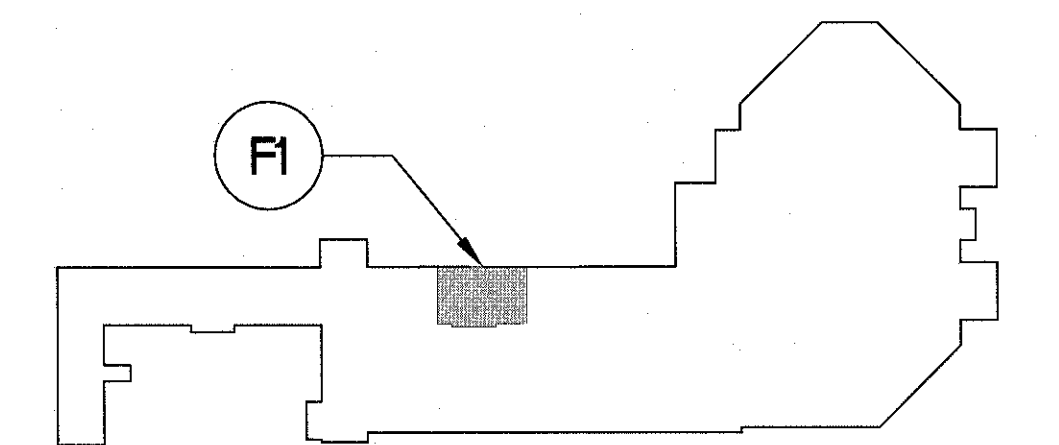
- (N) NEW DEVICE OR EQUIPMENT
- (R) LOCATION OF RELOCATED DEVICE OR EQUIPMENT
- (RR) REMOVE AND RELOCATE EXISTING DEVICE OR EQUIPMENT
- (RX) REMOVE EXISTING DEVICE OR EQUIPMENT
- (X) EXISTING DEVICE OR EQUIPMENT TO REMAIN
- (XR) EXISTING DEVICE OR EQUIPMENT TO BE REMOVED, REPLACE WITH NEW DEVICE AT SAME LOCATION

## ELECTRICAL DEMOLITION PLAN NOTES

- JUNCTION BOX ABOVE CEILING FOR AUTOMATIC DOORS. REMOVE AND RELOCATE TO LOCATION SHOWN ON DRAWING EP101. EXTEND CONDUIT AND BRANCH CIRCUIT TO NEW LOCATION.
- INFRARED DOOR ACTIVATION SENSOR. REMOVE AND RELOCATE TO LOCATION SHOWN ON DRAWING EP101. EXTEND CONDUIT AND BRANCH CIRCUIT TO NEW LOCATION.



**FI PARTIAL THIRD FLOOR PLAN**  
1/4" = 1'-0"



**KEY PLAN - THIRD FLOOR**  
NTS

FULLY SPRINKLED  
BID DOCUMENTS  
FOR CONSTRUCTION

<b>CONSULTANTS:</b> 		<b>ARCHITECT/ENGINEERS:</b>  200 Envoy Circle #201, Louisville KY 40299 - PH: 502.339.8511 - www.paradigmusa.com		<b>Drawing Title</b> ELECTRICAL DEMOLITION PLAN THIRD FLOOR		<b>Project Title</b> RENOVATE STERILE PROCESSING SERVICES		<b>Project Number</b> 623-14-103 <b>Building Number</b> 1		<b>Office of Construction and Facilities Management</b> 	
<b>Revisions</b> 				<b>Approved Project Director</b> 		<b>Control Number</b> VA256-14-C-0112 <b>PO Number</b> C40110		<b>Location</b> JACK C. MONTGOMERY VAMC 101 HONOR HEIGHTS DRIVE, MUSKOGEE, OK 74401		<b>Drawing Number</b> ED102	
Date						<b>Date</b> 03/10/2015		<b>Checked</b> WLM		<b>Drawn</b> MMF	





REFER TO SHEET ED101 FOR DEMOLITION WORK IN THIS AREA.

REFER TO SHEET ED102 FOR DEMOLITION WORK ON THIRD FLOOR

REFER TO SHEET E-102 FOR POWER, LIGHTING AND SYSTEMS WORK ON THIRD FLOOR.

INCLUDE UNDER BASE BID THE ELECTRICAL REQUIREMENTS TO PROVIDE POWER TO MOTORIZED DOORS, THE ASSOCIATED WORK SHALL BE INCLUDED AS A DEDUCT ALTERNATE.

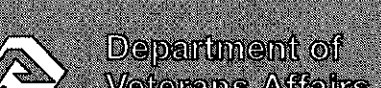
- A. REFER TO E-001 FOR ELECTRICAL LEGEND, GENERAL NOTES, AND ABBREVIATIONS.
- B. ALL RECEPTACLES IN PUBLIC AREAS SHALL BE TAMPER RESISTANT.
- C. ALL RECEPTACLES SHALL BE INSTALLED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
- D. ALL CONDUITS TO BE CONCEALED WITHIN ALL WALLS UNLESS NOTED OTHERWISE.
- E. ALL CONDUIT USED SHALL BE 3/4" MINIMUM.
- C. THE ON-SITE SECURITY CONTRACTOR SHALL PULL WIRE FROM JUNCTION BOX TO TERMINATION POINT ON THE EXISTING SECURITY SYSTEM; IN ADDITION THE SECURITY CONTRACTOR SHALL PROVIDE FISH COVER PLATES FOR THE SECURITY DEVICES. THE SECURITY CONTRACTOR SHALL MAKE ADJUSTMENTS TO THE EXISTING SECURITY SYSTEM AS REQUIRED IN ORDER TO ACCOMMODATE ADDITIONAL DEVICE BEING ADDED TO THE SECURITY SYSTEM. THE ON-SITE SECURITY CONTRACTOR SHALL HAVE LICENSED RCDD ON STAFF PROVIDE FULLY ENGINEERED SHOP DRAWINGS OF THE SECURITY SYSTEM.
- D. SOME WORK UNDER THIS CONTRACT WILL REQUIRE WORK DUTIES TO BE PERFORMED AFTER NORMAL WORKING HOURS. DETERMINATION OF SPECIFIC WORK DUTIES TO BE PERFORMED AFTER HOURS SHALL BE MADE BY VA STAFF AT THEIR CONVENIENCE. POSSIBLE WORK REQUIRING AFTER HOURS APPROVAL INCLUDES, BUT IS NOT LIMITED TO: POWER OUTAGES, DISRUPTION OF SERVICES, EXTREME NOISE AND / OR VIBRATION, CUTTING AND PATCHING OF CONCRETE AND DELIVERIES OF EQUIPMENT.
- E. SCOPE OF WORK SHALL BE LIMITED TO AREAS INDICATED ON FLOOR PLAN.
- F. REFER TO LUMINAIRE SCHEDULE ON SHEET E-501 FOR INFORMATION ON NEW LUMINAIRES.

(N) NEW DEVICE OR EQUIPMENT  
(R) LOCATION OF RELOCATED DEVICE OR EQUIPMENT  
(RR) REMOVE AND RELOCATE EXISTING DEVICE OR EQUIPMENT  
(RX) REMOVE EXISTING DEVICE OR EQUIPMENT  
(X) EXISTING DEVICE OR EQUIPMENT TO REMAIN  
(XR) EXISTING DEVICE OR EQUIPMENT TO BE REMOVED,  
REPLACE WITH NEW DEVICE AT SAME LOCATION

1. PROVIDE 30 AMP, NON-FUSED, 3-POLE NEMA 1 DISCONNECT SWITCH AT CABT WASH LOCATION. DISCONNECT SWITCH SHALL BE RATED FOR 480 VOLT, 3-PHASE.
2. PROVIDE NEW 20/3 CIRCUIT BREAKER IN EXISTING PANEL "HESP", NEW CIRCUIT BREAKER TYPE SHALL MATCH EXISTING. REFER TO PANEL BOARD SCHEDULE ON DRAWING E-501 FOR FURTHER INFORMATION.
3. PROVIDE 60 AMP, NON-FUSED, 3-POLE NEMA 1 DISCONNECT SWITCH AT INSTRUMENT WASH LOCATION. DISCONNECT SWITCH SHALL BE RATED FOR 480 VOLT, 3-PHASE.
4. EXISTING ELECTRICAL PANELS TO REMAIN. REFER TO DRAWING E-501 FOR FURTHER INFORMATION.
5. PROVIDE NEW 20/1 CIRCUIT BREAKER IN EXISTING PANEL "LP1D", REFER TO PANEL BOARD SCHEDULE ON DRAWING E-501 FOR FURTHER INFORMATION.
6. PROVIDE NEW 60/3 CIRCUIT BREAKER IN EXISTING PANEL "HESP", NEW CIRCUIT BREAKER TYPE SHALL MATCH EXISTING. REFER TO PANEL BOARD SCHEDULE ON DRAWING E-501 FOR FURTHER INFORMATION.
7. CONNECT TO NEAREST EXISTING 120 VOLT NORMAL POWER LIGHTING CIRCUIT IN ROOM.
8. EXISTING TRANSFORMER TO REMAIN, SHOWN FOR REFERENCE ONLY.
9. RELOCATED POWER POLE, VERIFY EXACT LOCATION WITH VA PRIOR TO INSTALLATION.
10. DEDICATED RECEPTACLE FOR "THERMA SURE" DRYER. RELOCATE EXISTING NEMA L5-30R RECEPTACLE AS INDICATED. RE-USE EXISTING CIRCUIT LESP-10 AND EXISTING 30A CIRCUIT BREAKER.
11. THE ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION BOX WITH 3/4" EMPTY CONDUIT ROUTED UP INTO THE ACCESSIBLE CEILING SPACE WITH BUSH CONDUIT END AND PULL STRINGS WITHIN THE EMPTY CONDUIT SYSTEM.
12. CONNECT TO NEAREST 120 VOLT NORMAL POWER CIRCUIT IN AREA.



Office of  
Construction  
and Facilities  
Management

[illegible]

**F1 PARTIAL FIRST FLOOR PLAN**  
3/16" = 1'-0"

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REFERENCE NOTES

REFER TO SHEET ED101 FOR DEMOLITION WORK ON FIRST FLOOR.  
REFER TO SHEET ED102 FOR DEMOLITION WORK IN THIS AREA.  
REFER TO SHEET E-101 FOR POWER, LIGHTING AND SYSTEMS WORK ON FIRST FLOOR.

GENERAL ELECTRICAL PLAN NOTES

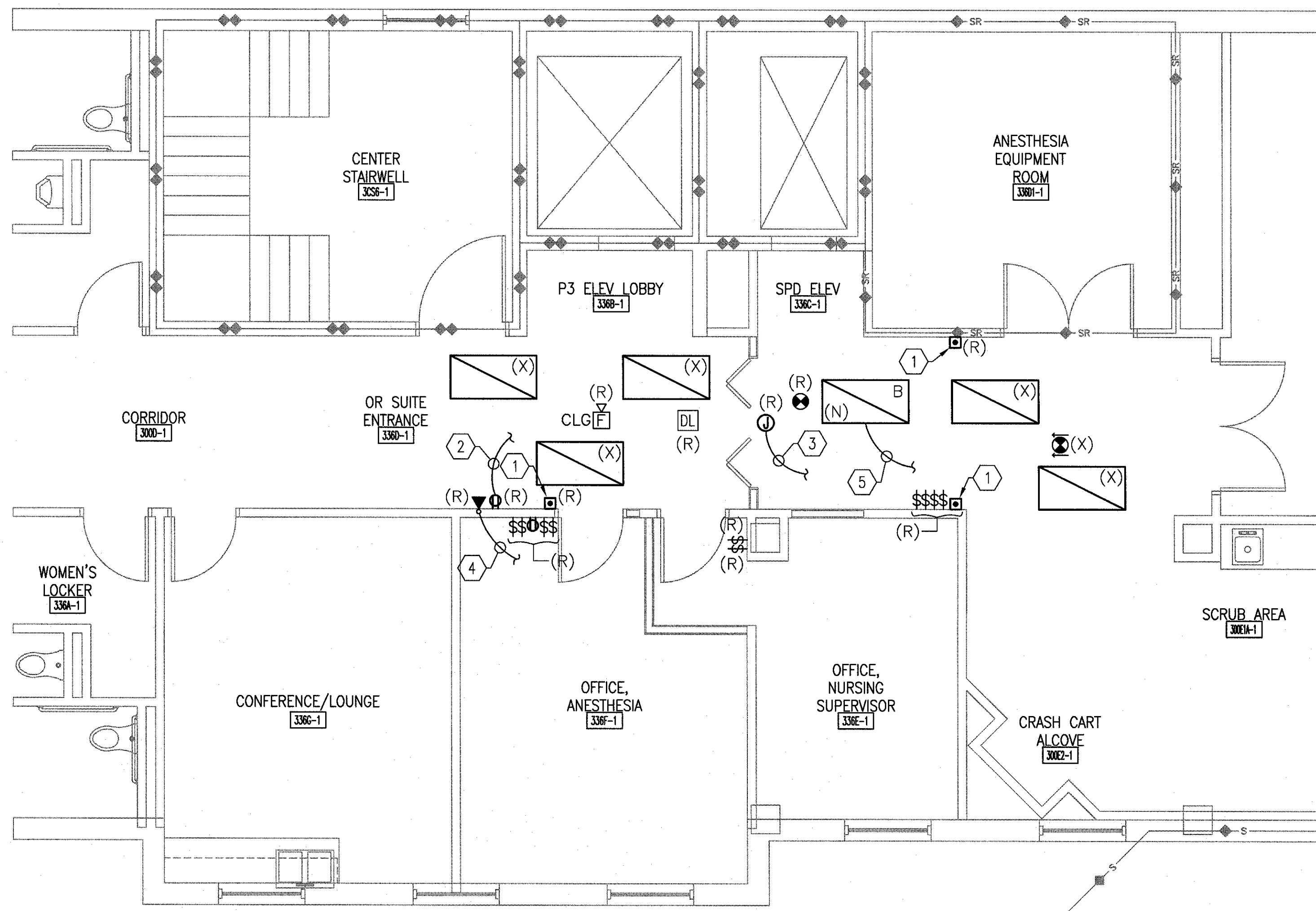
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- E. ALL CONDUIT USED SHALL BE 3/4" MINIMUM.
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- G. REFER TO SHEET ED102 FOR DEMOLITION WORK IN THIS AREA.
- H. SCOPE OF WORK SHALL BE LIMITED TO AREAS INDICATED ON FLOOR PLAN.
- I. REFER TO LUMINAIRE SCHEDULE ON SHEET E-501 FOR INFORMATION ON NEW LUMINAIRES.

RENOVATION NOTATIONS:

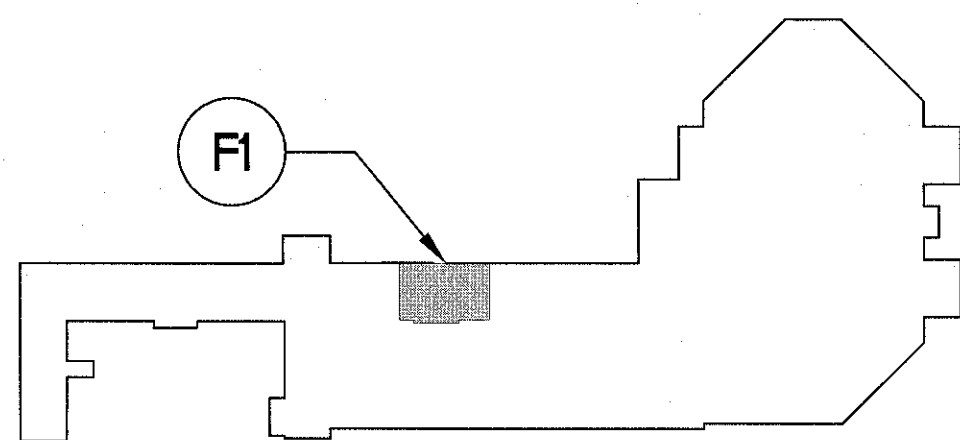
- (N) NEW DEVICE OR EQUIPMENT  
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(X) EXISTING DEVICE OR EQUIPMENT TO REMAIN  
(XR) EXISTING DEVICE OR EQUIPMENT TO BE REMOVED, REPLACE WITH NEW DEVICE AT SAME LOCATION

ELECTRICAL PLAN NOTES

1. DISCONNECT AND RELOCATE EXISTING INFRARED DOOR ACTIVATION SENSOR AS INDICATED ON THIS DRAWING, RE-CONNECT SENSOR TO EXISTING CIRCUITING. EXTEND CONDUIT AND BRANCH CIRCUIT AS REQUIRED.
2. CONNECT TO EXISTING NORMAL POWER RECEPTACLE CIRCUIT.
3. RE-CONNECT TO EXISTING DOOR ACTIVATION CIRCUIT.
4. RE-CONNECT TO EXISTING TELECOMMUNICATIONS CIRCUIT.
5. PROVIDE NEW LIGHT FIXTURE AS INDICATED, CONNECT NEW LIGHT FIXTURE TO EXISTING LIGHTING CIRCUIT IN ROOM, LIGHT FIXTURE SHALL BE CONTROLLED VIA EXISTING LIGHTING CONTROL.



FI PARTIAL THIRD FLOOR PLAN  
1/4" = 1'-0"



KEY PLAN - THIRD FLOOR  
NTS

FULLY SPRINKLED  
BID DOCUMENTS  
FOR CONSTRUCTION

<b>CONSULTANTS:</b>			<b>ARCHITECT/ENGINEERS:</b>		<b>Drawing Title</b> ELECTRICAL POWER, LIGHTING AND SYSTEMS PLAN THIRD FLOOR		<b>Project Title</b> RENOVATE STERILE PROCESSING SERVICES		<b>Project Number</b> 623-14-103		<b>Office of Construction and Facilities Management</b> 
<b>Revisions</b>			 200 Envoy Circle #201, Louisville KY 40299 - PH: 502.339.8511 - www.paradigmusa.com		<b>Approved Project Director</b>		<b>Control Number</b> VA256-14-C-0112		<b>Location</b> JACK C. MONTGOMERY VAMC 101 HONOR HEIGHTS DRIVE, MARIETTA, OK 74401		
<b>Date</b>						<b>PO Number</b> C40110		<b>Date</b> 03/10/2015	<b>Checked</b> WLM	<b>Drawn</b> MMF	<b>Drawing Number</b> E-102