

GENERAL NOTE
 AT CONTRACTOR OPTION GFCI BREAKERS CAN BE USED FOR HOMERUNS THAT HAVE MORE THAN ONE GFCI REQUIREMENT. PARALLELING GFCI BREAKERS IS NOT ALLOWED. EACH GFCI DEVICE SHOWN MUST BE DEDICATED DEVICE, OR ON GFCI PROTECTED HOMERUN.

PANEL 25.2.LLA (BASE BID)																
PANEL LOCATION ELECTRICAL 1802A		L-L VOLT: 208		PHASE: 3		MAIN LUG Y		BREAKER N		FED FROM 25.2.LLMDP						
MFR/MODEL SQUARE D NQ		L-N VOLT: 120		WIRES: 4		WIRE SIZE (4) #6 THHN + #2 CU GRND		COND. SIZE: 2-1/2" EMT		MOUNT SURFACE						
AC: 22,000		NEUTRAL 200%		NEUTRAL 200%		NEUTRAL 200%		NEUTRAL 200%		NEUTRAL 200%						
DESCRIPTION	BREAKER	TYPE	POLE	AMP	L-LOAD	R-LOAD	O-LOAD	T/S/O/M A/E/H	PHASE	T/S/O/M A/E/H	O-LOAD/R-LOAD	L-LOAD	AMP	POLE	TYPE	DESCRIPTION
South Exterior Lighting	1	20	14						1 A 2				20	1		Cabinet (Equipment 9) Recpt
120V Pass-Through Window (Equipment 8)	1	20			120				3 B 4				20	1		110V UH-1 Star Recpt
Scope/South Corridor Lighting	1	20	1770						5 C 6				180	20	1	Cabinet (Equipment 9) Recpt
SE Interstitial Lighting	1	20	1425						7 A 8				180	20	1	Cabinet (Equipment 9) Recpt
110V VAV AND VVS	1	20			520				9 B 10				285	20	1	Viva and Interstitial Space Recpts
Scope Drop Off Recpts	1	20							11 C 12				720	20	1	Cart Prep Recpts
Decon Recpts	1	20			720				13 A 14				720	20	1	Ante Room Recpts
Cabinet (Equipment 9) Recpt	1	20			180				15 B 16				720	20	1	Hac Room Recpts
SPARE	1	20							17 C 18				1080	20	1	North SPS Lighting
Scope Proc Recpts	1	20			1080				19 A 20				1080	20	1	Ante Vendor Drop Off Recpts
Armstrong Steam and Interstitial Space Recpts	1	20			720				21 B 22				540	20	1	Scope West Recpts
SPARE	1	20							23 C 24				480	20	1	Rack Return (Equipment #4)
Womens Locker Recpts	1	20			1080				25 A 26				1080	20	1	SPARE
Corridor Recpts	1	20			1080				27 B 28				1824	20	2	HWP-1
CP-1	2	20							29 C 30				1824	20	1	SPARE
SPARE	1	20							31 A 32				20	1		SPARE
SPARE	1	20							33 B 34				20	1		SPARE
Ultrasonic Cleaner (Equipment 3A)	2	20							35 C 36				1801	20	2	Ultrasonic Cleaner (Equipment 3A)
Ultrasonic Cleaner (Equipment 3A)	2	20							37 A 38				1801	20	1	SPARE
Ultrasonic Cleaner (Equipment 3A)	2	20							39 B 40				865	20	1	SPS Equipment #7
CTP-1	1	20							41 C 42				865	20	1	SPS Equipment #7
CTP-2	1	20							43 A 44				865	20	1	SPS Equipment #7
CT 1 / MOTOR HEATER & SWITCHES	1	20							45 B 46				865	20	1	SPS Equipment #7
CT 2 / MOTOR HEATER & SWITCHES	1	20							47 C 48				360	20	1	Decon Counter Recpts Equipment #1
CT HEAT TRACE	1	20							49 A 50					20	1	SPARE
SPARE	1	20							51 B 52					20	1	SPARE
SPARE	1	20							53 C 54					20	1	SPARE
Space	1	20							55 A 56					20	1	SPARE
Space	1	20							57 B 58					20	1	SPARE
Space	1	20							59 C 60					20	1	SPARE
Space	1	20							61 A 62					20	1	SPARE
Space	1	20							63 B 64					20	1	SPARE
Space	1	20							65 C 66					20	1	SPARE
Space	1	20							67 A 68					20	1	SPARE
Space	1	20							69 B 70					20	1	SPARE
Space	1	20							71 C 72					20	1	SPARE
Space	1	20							73 A 74					20	1	SPARE
Space	1	20							75 B 76					20	1	SPARE
Space	1	20							77 C 78					20	1	SPARE
Space	1	20							79 A 80					20	1	SPARE
Space	1	20							81 B 82					20	1	SPARE
Space	1	20							83 C 84					20	1	SPARE
SUMMARY CONNECTED LOADS					3209	5580			14436 M				4094 M			SUMMARY CONNECTED LOADS
									0 A				0 A			
									0 S				0 S			
									0 H				0 H			
									0 T				0 T			
									0 O				0 O			
DESCRIPTION	CONN KVA	D.F	DEM KVA	TOTAL CONNECTED LOAD	146.9 AMP	32.940 KVA							4594 AMP			
RECEPTACLES (FIRST 10KW)	3.2	1.25	4.0	TOTAL DEMAND LOAD	146.7 AMP	32.808 KVA							4592 AMP			
RECEPTACLES (REMANINDER)	2.7	0.5	1.4	DESIGN (MAX)	200 AMP	71.968 KVA							1801 AMP			
MOTORS	16.7	1.0	16.7	SPARE LOAD	53 AMP	19.130 KVA							0 AMP			
LARGEST MOTOR	1.8	1.25	2.3													
APPLIANCES	0.0	1.0	0.0	CONNECTED LOAD BALANCE SUMMARY												
SUBFEED	0.0	0.8	0.0	PHASE A	158.4 AMP	18.784 KVA							0 AMP			
EQUIPMENT	18.0	1.0	18.0	PHASE B	124.7 AMP	14.954 KVA							0 AMP			
HEATING	0.0	1.0	0.0	PHASE C	160.1 AMP	19.212 KVA							0 AMP			
TRANSFORMER	0.5	1.0	0.5	CONN=CONNECTED									20 %			
OTHER	0.0	1.0	0.0	DEM=DEMAND									28 %			
TOTAL KVA	52.9 KVA		52.8 KVA	C TO A									2 %			
TOTAL AMP	146.9 AMP		146.7 AMP	C TO B												
DESIGN (MAX)	200 AMP		200 AMP	C TO C												
SPARE	53.3 AMP		53.3 AMP													

PANEL 25.2.LLB (BASE BID)																
PANEL LOCATION ELECTRICAL 1802C		L-L VOLT: 208		PHASE: 3		MAIN LUG Y		BREAKER N		FED FROM 25.2.LLMDP						
MFR/MODEL SQUARE D NQ		L-N VOLT: 120		WIRES: 4		WIRE SIZE (4) #6 THHN + #2 CU GRND		COND. SIZE: 2-1/2" EMT		MOUNT SURFACE						
AC: 22,000		NEUTRAL 200%		NEUTRAL 200%		NEUTRAL 200%		NEUTRAL 200%		NEUTRAL 200%						
DESCRIPTION	BREAKER	TYPE	POLE	AMP	L-LOAD	R-LOAD	O-LOAD	T/S/O/M A/E/H	PHASE	T/S/O/M A/E/H	O-LOAD/R-LOAD	L-LOAD	AMP	POLE	TYPE	DESCRIPTION
West Exterior Lighting	1	20	49						1 A 2				20	1		110V UH-3
120V Pass-Through Window (Equipment 8)	1	20			120				3 B 4				20	1		Star Recpt
Scope/South Corridor Lighting	1	20			161				5 C 6				240	20	1	Amasco 400 Small Steam Sterilizer (Equipment 14)
SE Interstitial Lighting	1	20			360				7 A 8				540	20	1	Hac Room Recpts
110V VAV AND VVS	1	20			520				9 B 10				752	20	1	Combinofice Lighting
Scope Drop Off Recpts	1	20			520				11 C 12				720	20	1	Ante Room Recpts
Decon Recpts	1	20			1150				13 A 14				1725	20	1	SW Interstitial Lighting
Cabinet (Equipment 9) Recpt	1	20			900				15 B 16				1080	20	1	Cart Dry/Sterile Sig/Prep Assembly Recpts
SPARE	1	20			1400				17 C 18				360	20	1	Metaxcel Conveyors (Equipment 10)
Scope Proc Recpts	1	20			1851				19 A 20				1080	20	1	Open Office Recpts 1
Armstrong Steam and Interstitial Space Recpts	1	20			1260				21 B 22				1260	20	1	Prep Assembly/Ante Recpts
SPARE	1	20			720				23 C 24				720	20	1	SPARE
Womens Locker Recpts	1	20			900				25 A 26				1080	20	1	Interstitial Space Recpts
Corridor Recpts	1	20			720				27 B 28				720	20	1	SPARE
CP-1	2	20			1080				29 C 30				720	20	1	Computer Quad Recpts (Equipment 13)
SPARE	1	20							31 A 32				1080	20	1	Computer Quad Recpts (Equipment 13)
SPARE	1	20							33 B 34				1080	20	1	Computer Quad Recpts (Equipment 13)
Ultrasonic Cleaner (Equipment 3A)	2	20							35 C 36				800	20	1	Computer Quad Recpts (Equipment 13)
Ultrasonic Cleaner (Equipment 3A)	2	20							37 A 38				1080	20	1	Computer Quad Recpts (Equipment 13)
CTP-1	1	20							39 B 40				1000	20	1	Computer Quad Recpts (Equipment 13)
CTP-2	1	20							41 C 42				1921	20	1	Computer Quad Recpts (Equipment 13)
CT 1 / MOTOR HEATER & SWITCHES	1	20							43 A 44				1921	20	1	Computer Quad Recpts (Equipment 13)
CT 2 / MOTOR HEATER & SWITCHES	1	20							45 B 46				1921	20	1	Computer Quad Recpts (Equipment 13)
CT HEAT TRACE	1	20							47 C 48				1921	20	1	Computer Quad Recpts (Equipment 13)
SPARE	1	20							49 A 50				1921	20	1	Computer Quad Recpts (Equipment 13)
Space	1	20							51 B 52				1921	20	1	Computer Quad Recpts (Equipment 13)
Space	1	20							53 C 54				2882	20	1	Computer Quad Recpts (Equipment 13)
Space	1	20							55 A 56							

LIGHTING FIXTURE SCHEDULE														
SYMBOL	LETTER	MANUFACTURER	DESCRIPTION	FIXTURE	CATALOG NO.	LOCATION	TYPE	HEIGHT	TYPE	NO.	WATTS	LUMENS	NOTES	HYPERSLINK
	A	NEW STAR LIGHTING	2X4 RECESSED CLEANROOM TROFFER	SCR24/HA/OA-L2351C-E-UN-EL1	SCR24/HA/OA-L2351C-E-UN-EL1	CEILING	RECESSED	-	LED	-	50	6000	1	SPEC
	B	NEW STAR LIGHTING	1X4 STRIP LIGHT	VIC4N-L2351C-RW-UN-WH	VIC4N-L2351C-RW-UN-WH	CEILING	SURFACE	-	LED	-	50	5400	1	SPEC
	C	NEW STAR LIGHTING	2X4 TROFFER	AACG24-HC20-IC20/CA12-L2351C-RW	AACG24-HC20-IC20/CA12-L2351C-RW	CEILING	SURFACE	-	LED	-	50	5950	1	SPEC
	D	NEW STAR LIGHTING	2X4 TROFFER	AACG24-HC20-IC20/CA12-CL351C-RW	AACG24-HC20-IC20/CA12-CL351C-RW	CEILING	SURFACE	-	LED	-	38	4000	1	SPEC
	G	NEW STAR LIGHTING	1X4 STRIP LIGHT	VIC4N-L3351C-RW-UN-WH	VIC4N-L3351C-RW-UN-WH	CEILING	SURFACE	-	LED	-	75	7200	1	SPEC
	H	NEW STAR LIGHTING	UNDERCABINET LIGHT	MUS2-HC-L135-A-UN	MUS2-HC-L135-A-UN	UNDERCABINET	SURFACE	-	LED	-	12	1215	1	SPEC
	J	NEW STAR LIGHTING	6" DOWNLIGHT	DLM6-D-L135-_-/_-_-3-UN	DLM6-D-L135-_-/_-_-3-UN	CEILING	SURFACE	-	LED	-	11	876	1	SPEC
	K	COMPASS LIGHTING	OUTDOOR LED WALLPACK WITH HEATER	CU50 BK-H	CU50 BK-H	WALL	SURFACE	8'	LED	-	7	1600	1	A,B SPEC
	X	DUAL-LITE	EXIT SIGN	LE-_-_-G_-_-C-E-1	LE-_-_-G_-_-C-E-1	CEILING	SURFACE	7' 6"	LED	-	3.3-4.5	-	1,2,3	E SPEC

- LUMINAIRE NOTES:**
- PROVIDE ALL NECESSARY HARDWARE OR KITS FOR MOUNTING LUMINAIRE AS NOTED BY LOCATION AND TYPE.
 - CONNECT TO NEAREST UNSWITCHED CIRCUIT.
 - REFER TO PLANS FOR DIRECTIONAL ARROWS, SINGLE OR DOUBLE SIDED, AND MOUNTING TYPE WILL BE WALL MOUNTED UNLESS OTHERWISE NOTED ON PLANS.

- CONTROL NOTES:**
- ON BOARD OCCUPANCY SENSING.
 - ON BOARD PHOTO CONTROL.
 - 0-10 V DIMMING.
 - TRIAC DIMMING.
 - EMERGENCY BACKUP BATTERY ON FIXTURES WITH ADDITIONAL E TAG.

GENERAL LUMINAIRE NOTES:
1. MANUFACTURERS LISTED ARE CONSIDERED BASIS OF DESIGN PURPOSES. CONTRACTOR TO REFER TO SPECIFICATION, AND SALIENT FEATURES LISTED BOTH ON PLANS AND SPECIFICATIONS WHEN OFFERING EQUAL PRODUCTS.

LIGHTING CONTROL SCHEDULE															
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	NO.	TYPE	LOCATION	NOTES	HYPERSLINK							
	WALL SWITCH	HUBBELL	CS120	20	20	20	-	E E E	-	-	-	-	-	SPEC	
	WALL OCCUPANCY SENSOR SWITCH	LUTRON	MS-OP6M2U-DV	6	3	3	D	E E E	D	30m	D	-	-	-	SPEC
	SPDT OVERRIDE SWITCH W/ CENTER OFF	HUBBELL	4922	20	20	20	-	E E E	-	-	-	-	-	SPEC	
	CEILING OCCUPANCY SENSOR SWITCH	HUBBELL	OMNI-DT-500	.033	.033	.033	E	E E E	-	30m	-	-	-	1	SPEC

- NOTES:**
- SENSOR IS RATED FOR 24VDC INSTEAD OF LINE VOLTAGE. CONTRACTOR TO PROVIDE NECESSARY RELAYS AND WIRING COMPONENTS FOR A COMPLETE INSTALLATION.
- PROVIDE SWITCHES WITH LOW VOLTAGE POWER PACKS AS REQUIRED.

MEDICAL EQUIPMENT UTILITY CONNECTION SCHEDULE										
EQUIPMENT TAG	MANUFACTURER	MODEL/DESCRIPTION	QUANTITY	ELECTRICAL CONNECTIONS				PLUG SIZE	NOTES	
				VOLT	PHASE	MOCP	FLA			WATTS
1	AMSCO	COUNTER, CLEANUP, WITH 3 SINKS	4	120	1	15	3	-	5-20R GFCI	20 AMP HOSPITAL GRADE GFCI OUTLET
2	AMSCO	WASHER, DISINFECTOR, STM, IDO, RSD1WLL, 26X24X24 SHAM	3	480	3	30	16.5	-	N/A	REQUIRES CAT 6A DATA CONNECTION
3	INNOWAVE	INNOWAVE PFC SONIC IRRIGATOR	2	208	3	30	24	-	N/A	
3A	GETINGE	ULTRASONIC CLEANER TRITON 72	3	208	1	20	-	-	6-20R	
4	AMSCO	RACK RETURN	1	120	1	15	4	-	5-20R GFI	120V RECEPTACLE
4A, 10	AMSCO	SCS LOAD-UNLOAD	4	120	1	15	3	-	-	
5	VISION	WASHER, CART & UTENSIL, 2 DO, PIT MNTD, RSD 2 WLL	2	480	3	20	13.5	-	-	REQUIRES CAT 6A DATA CONNECTION
7	ADVANTAGE PLUS	WASHER, FIBER SCOPE, PASS-THROUGH	3	120	1	-	-	865	5-20R GFI	REQUIRES CAT 6A DATA CONNECTION
8	AMSCO	40" AUTOMATED PASS-THROUGH WINDOW	2	120	1	15	1	-	N/A	
9	ADVANTAGE PLUS	CABINET, STORAGE, HANGING SCOPES	4	120	1	15	-	75	5-20R GFI	REQUIRES CAT 6A DATA CONNECTION
12	AMSCO	LOW TEMPERATURE STERILIZER	3	208	3	20	16	-	L15-20R	REQUIRES CAT 6A DATA CONNECTION
13	AMSCO	ADJUSTABLE DELUXE WORKSTATION	8	120	1	15	-	-	5-20R QUAD	
14	AMSCO	AMSCO 400 SERIES SMALL STEAM STERILIZER	1	480/120	3/1	4/15	3/2	-	-	TWO POWER SUPPLIES REQUIRED. 480V POWER SUPPLY FOR EQUIPMENT POWER AND 120V POWER SUPPLY FOR EQUIPMENT CONTROL POWER. REQUIRES CAT 6A DATA CONNECTION
15	AMSCO	AMSCO 600 MEDIUM STEAM STERILIZER	3	480	3	20	7	-	-	REQUIRES CAT 6A DATA CONNECTION

GENERAL NOTE: ALL MEDICAL EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT BY THE GENERAL CONTRACTOR. ELECTRICAL CONTRACTORS TO PROVIDE ALL PROPER UTILITY CONNECTIONS AND ACCESSORIES PER THIS SCHEDULE AND EQUIPMENT MANUFACTURER WRITTEN INSTRUCTIONS.

SCHEDULE OF VARIABLE FREQUENCY DRIVES AND EQUIPMENT CONTROLLERS											
UNIT	DESCRIPTION	MOTOR	STARTER	CATALOG NO.	RZ	PZ	VFD	DEVICES		NOTES	
								SWT	FLOT		
CT-1, CT-2 (FANS)		14 FLA	3	480	ABB	ACS880-01	1	3	HOA	G	1,2,3
CT-1, CT-2 (PUMPS)		8 FLA	3	480	ABB	ACS880-01	0	3	HOA	G	1,2,3

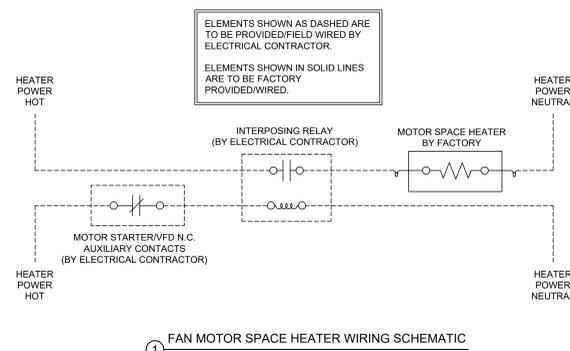
- NOTES:**
- PROVIDE NEMA 3R MINIMUM RATED ENCLOSURE FOR VFDs.
 - VFD IS REQUIRED TO HAVE FULL MECHANICAL BYPASS. ELECTRONIC BYPASS WILL NOT BE ACCEPTABLE FOR THIS PROJECT.
 - VFDs FOR COOLING TOWER EQUIPMENT ARE INCLUDED AS PART OF THE BASE BID. BID ALTERNATE #3 REMOVES THE CT-1 AND CT-2 FROM THE PROJECT ALONG WITH THE ASSOCIATED VFDs.
- * HEATERS BY VFD MANUFACTURER.

SECURITY CAMERA SCHEDULE						
SYMBOL	TYPE	MANUFACTURER	MODEL NO.	LOCATION	NOTES	HYPERSLINK
	CORNER	AXIS COMMUNICATIONS	Q9216-SLV	CORRIDOR	-	SPEC
	360	AXIS COMMUNICATIONS	M3067-P	CORRIDOR	1	SPEC
	PAN TILT ZOOM	AXIS COMMUNICATIONS	P5655-E	ACCESS DOORS	-	SPEC

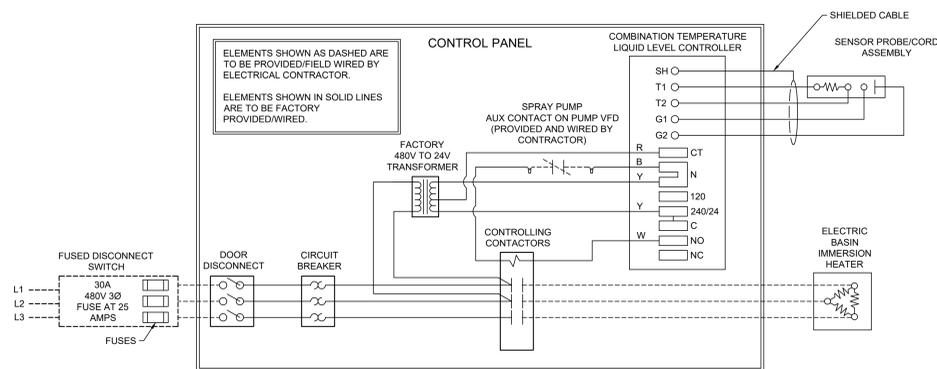
NOTES: CAMERA HAS NO VANDAL RESISTANCE RATING BUT HAS A BUILT IN VANDAL ALARM.

SCHEDULE OF EQUIPMENT DISCONNECTS														
EQUIPMENT	DISCONNECT	CONNECTED LOAD				TYPE	MFR	CATALOG NO.	FUSE	NOTES				
		HP	W	FLA	MDA									
SINGLE CHAMBER WASHER #1 (2)	SQUARE D	-	-	16.5	-	3	480	HEAVY DUTY FUSED	VH361NRB	CARTRIDGE CLASS R	30A	3	1	
SINGLE CHAMBER WASHER #2 (2)	SQUARE D	-	-	16.5	-	3	480	HEAVY DUTY FUSED	VH361NRB	CARTRIDGE CLASS R	30A	3	1	
SINGLE CHAMBER WASHER #3 (2)	SQUARE D	-	-	16.5	-	3	480	HEAVY DUTY FUSED	VH361NRB	CARTRIDGE CLASS R	30A	3	1	
MOTORIZED CONVEYORS #1 (10)	SQUARE D	-	-	1440	-	1	208	GENERAL DUTY FUSED	D321NRB	CARTRIDGE CLASS R	15A	3	1	
MOTORIZED CONVEYORS #2 (10)	SQUARE D	-	-	1440	-	1	208	GENERAL DUTY FUSED	D321NRB	CARTRIDGE CLASS R	15A	3	1	
MOTORIZED CONVEYORS #3 (10)	SQUARE D	-	-	1440	-	1	208	GENERAL DUTY FUSED	D321NRB	CARTRIDGE CLASS R	15A	3	1	
MOTORIZED CONVEYORS #1 (4A)	SQUARE D	-	-	1440	-	1	208	GENERAL DUTY FUSED	D321NRB	CARTRIDGE CLASS R	15A	3	1	
CART AND UTENSIL WASH #1 (5)	SQUARE D	-	-	865	13.5	-	3	480	HEAVY DUTY FUSED	VH361NRB	CARTRIDGE CLASS R	20A	3	1
CART AND UTENSIL WASH #2 (5)	SQUARE D	-	-	865	13.5	-	3	480	HEAVY DUTY FUSED	VH361NRB	CARTRIDGE CLASS R	20A	3	1
AMSCO 600 STEAM STERIL #1 (15)	SQUARE D	-	-	7	-	3	480	HEAVY DUTY FUSED	VH361NRB	CARTRIDGE CLASS R	20A	3	1	
AMSCO 600 STEAM STERIL #2 (15)	SQUARE D	-	-	7	-	3	480	HEAVY DUTY FUSED	VH361NRB	CARTRIDGE CLASS R	20A	3	1	
AMSCO 600 STEAM STERIL #3 (15)	SQUARE D	-	-	7	-	3	480	HEAVY DUTY FUSED	VH361NRB	CARTRIDGE CLASS R	20A	3	1	
AMSCO 400 STEAM STERIL (14)	SQUARE D	-	-	3	-	3	480	HEAVY DUTY FUSED	VH361NRB	CARTRIDGE CLASS R	20A	3	1	
AMSCO 400 STEAM STERIL CNTRL (14)	SQUARE D	-	-	2	-	1	120	GENERAL DUTY FUSED	D321NRB	CARTRIDGE CLASS R	15A	1	1	
INNOWAVE PFC IRRIGATOR #1 (3)	SQUARE D	-	-	24	-	3	208	GENERAL DUTY FUSED	D321NRB	CARTRIDGE CLASS R	30A	3	1	
INNOWAVE PFC IRRIGATOR #2 (3)	SQUARE D	-	-	24	-	3	208	GENERAL DUTY FUSED	D321NRB	CARTRIDGE CLASS R	30A	3	1	
PASS-THROUGH WINDOW #1 (8)	SQUARE D	-	-	1	-	3	208	GENERAL DUTY FUSED	D321NRB	CARTRIDGE CLASS R	15A	3	1	
PASS-THROUGH WINDOW #2 (8)	SQUARE D	-	-	1	-	3	208	GENERAL DUTY FUSED	D321NRB	CARTRIDGE CLASS R	15A	3	1	
CP-1	SQUARE D	1/2	-	-	-	1	208	GENERAL DUTY FUSED	D321NRB	CARTRIDGE CLASS R	16A	2		
CU-1, CU-2	SQUARE D	-	-	98	3	208	HEAVY DUTY FUSED	VH323NRB	CARTRIDGE CLASS R	100	3	2		
CHWP-1, CHWP-2	SQUARE D	3	-	-	-	3	480	(2) COMBO STARTER	8538CASP3	CARTRIDGE CLASS R	15A	3	6	
CHR-1, CHR-2	SQUARE D	-	-	67.8	84.8	3	480	(2) COMBO STARTER	8538SFG13V81CFFAT	CARTRIDGE CLASS R	125A	3	3	
CTP-1, CTP-2	SQUARE D	7.5	-	32	-	1	480	(2) COMBO STARTER	8538SDG63V02	CARTRIDGE CLASS R	35A	2	4	
HWP-1	SQUARE D	7.5	-	-	-	1	208	(2) COMBO STARTER	8538CASP4	CARTRIDGE CLASS R	25A	2		
UH-1,2,3,4	COOPER	1/20	-	-	-	1	120	FUSESTAT	BP/ISSU	EDISON BASE CLASS T	1.5A	1	-	
AHU-1	SQUARE D	-	-	18.5	23.13	3	480	HEAVY DUTY FUSED	H361NRB	CARTRIDGE CLASS R	40	3		
AHU-2 SUPPLY	SQUARE D	-	-	9.4	11.75	3	480	HEAVY DUTY FUSED	H361NRB	CARTRIDGE CLASS R	20	3		
AHU-2 RETURN	SQUARE D	-	-	4.2	5.25	3	480	HEAVY DUTY FUSED	H361NRB	CARTRIDGE CLASS R	15	3		
CT-1, CT-2 (FANS)	SQUARE D	7.5	-	14	-	3	480	(2) HEAVY DUTY FUSED	VH361NRB	CARTRIDGE CLASS R	25	3	1.5	
CT-1, CT-2 (PUMPS)	SQUARE D	5	-	8	-	3	480	(2) HEAVY DUTY FUSED	VH361NRB	CARTRIDGE CLASS R	15	3	1.5	
CT-1, CT-2 (HEATER/CONTROLLER)	SQUARE D	-	-	9920	-	3	480	(2) HEAVY DUTY FUSED	VH361NRB	CARTRIDGE CLASS R	15	3	1.5	
CT-1, CT-2 (120V HEATERS/SWITCHES)	SQUARE D	-	-	4	-	1	120	(2) GEN DUTY FUSED	D221NRB	CARTRIDGE CLASS R	5	1	1.5	
EF-1	SQUARE D	7-1/2	-	11	-	3	480	HEAVY DUTY FUSED	H361NRB	CARTRIDGE CLASS R	20A	3	1	
EF-2	SQUARE D	1/4	-	1.1	-	3	208	GENERAL DUTY FUSED	D321NRB	CARTRIDGE CLASS R	4A	3	1	
CU-3/EV-1	SQUARE D	-	-	-	-	25	1	208	HEAVY DUTY FUSED	H361NRB	CARTRIDGE CLASS R	35A	2	1.7
VAV-5,6,7,8,9,20,21,22,23	COOPER	-	-	40	-	1	120	FUSESTAT	BP/ISSU	EDISON BASE CLASS T	0.5A	1	-	

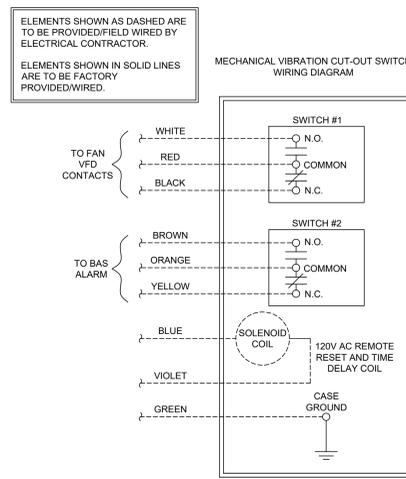
- NOTES:**
- DISCONNECT ENCLOSURE TO BE NEMA 3R MIN RATED.
 - NEW HEAVY DUTY FUSED DISCONNECTS ARE TO BE PROVIDED FOR NEW CONDENSING UNITS CU-1 AND CU-2.
 - NEW MOTOR COMBINATION STARTERS ARE TO BE PROVIDED FOR NEW CHILLERS CHR-1 AND CHR-2.
 - NEW MOTOR COMBINATION STARTERS ARE TO BE PROVIDED FOR NEW COOLING TOWER PUMPS CTP-1 AND CTP-2.
 - NEW HEAVY DUTY DISCONNECTS ARE TO BE PROVIDED FOR NEW COOLING TOWERS ACCP-1 AND ACCP-2.
 - NEW MOTOR COMBINATION STARTERS ARE TO BE PROVIDED FOR NEW CHILLED WATER PUMPS CHWP-1 AND CHWP-2.
 - POWER FOR THE INDOOR EVAPORATOR EV-1 IS PROVIDED BY OUTDOOR CONDENSING UNIT. COORDINATE POWER AND WIRING CONNECTIONS WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.



1 FAN MOTOR SPACE HEATER WIRING SCHEMATIC
SCALE: NTS



2 ELECTRIC IMMERSION HEATER WIRING DETAIL
SCALE: NTS

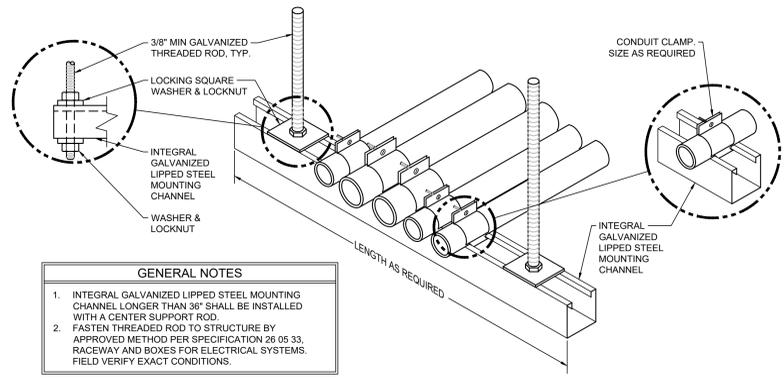


3 MECHANICAL VIBRATION CUT-OUT WIRING DETAIL
SCALE: NTS

CONSTRUCTION DOCUMENTS

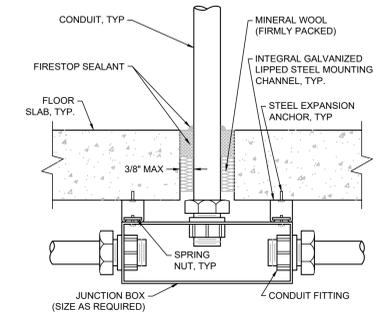
CONSULTANTS: TERRASITE DESIGN 1635 DEADWOOD AVENUE RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 791-1736 ALBERTSON ENGINEERING, INC. 315 NORTH MAIN AVENUE, SUITE 200 SIOUX FALLS, SOUTH DAKOTA 57104 PH: (605) 274-0880 FARRIS ENGINEERING 12700 WEST DODGE ROAD OMAHA, NEBRASKA 68154 PH: (402) 330-5900		ARCHITECT: FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM		Drawing Title ELECTRICAL SCHEDULES		Project Title Design/Construct Sterile Processing Service - Omaha VA Medical Center		Project Number 16.2330.A08		Office of Construction and Facilities Management	
Approved: Project Director Omaha VA Medical Center		Location 4101 Woolworth Ave #4199 Omaha, Ne 68105		Building Number 25		Drawing Number E-003		Date 11/23/2020		Checked WEW	
Date 11/23/2020		Drawn KAB		Dwg. 120 of 143							

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 three quarters inch = one foot
 one quarter inch = one foot
 three eighths inch = one foot
 one eighth inch = one foot

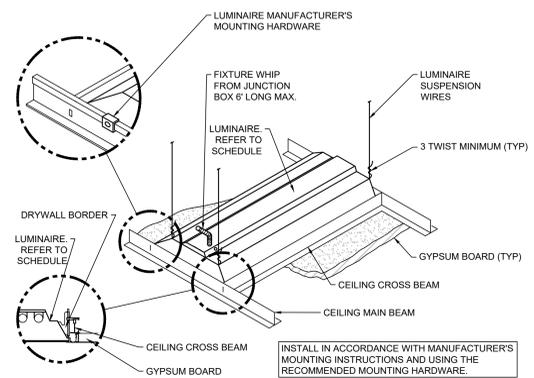


1 CONDUIT TRAPEZE MOUNTING DETAIL
SCALE: NTS

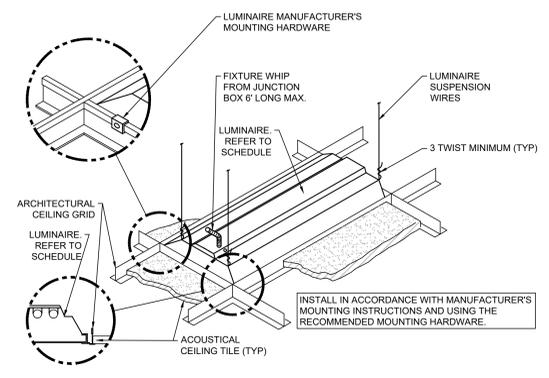
GENERAL NOTES
 1. INTEGRAL GALVANIZED LIPPED STEEL MOUNTING CHANNEL LONGER THAN 36\"/>



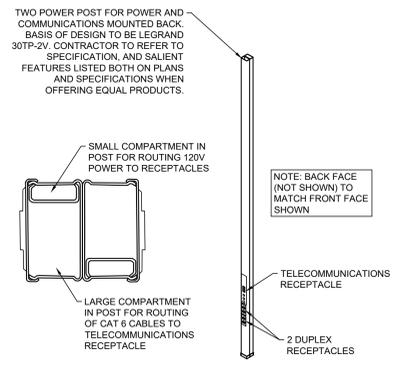
2 FLOOR SLAB PENETRATION DETAIL
SCALE: NTS



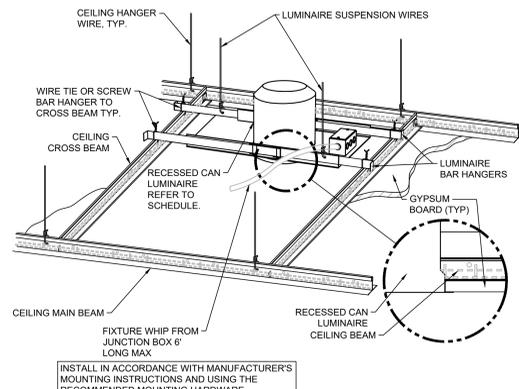
3 LUMINAIRE MOUNTING - GYPBOARD CEILING
SCALE: NTS



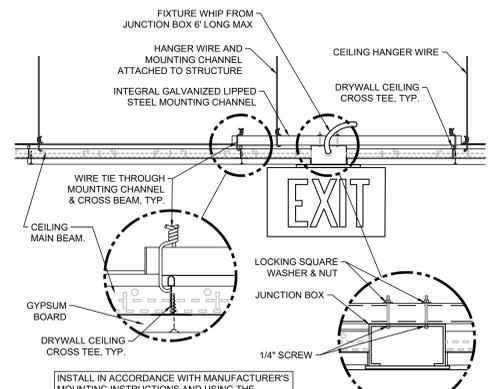
4 LUMINAIRE MOUNTING - LAY-IN CEILING
SCALE: NTS



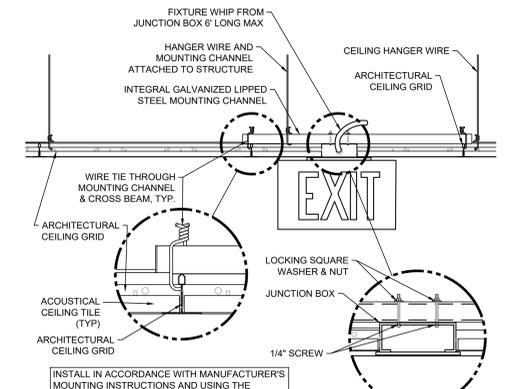
5 POWER POST DETAIL
SCALE: NTS



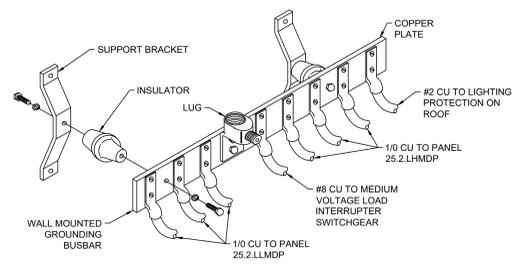
6 DOWNLIGHT MOUNTING - GYPBOARD CEILING
SCALE: NTS



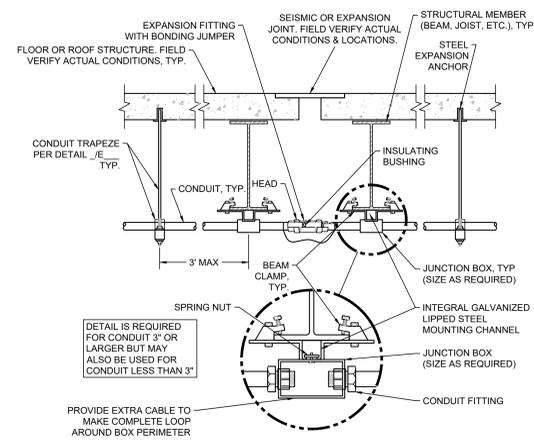
7 EXIT SIGN MOUNTING - GYPBOARD CEILING
SCALE: NTS



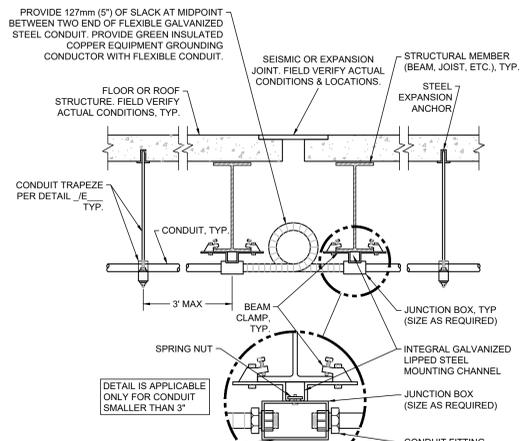
8 EXIT SIGN MOUNTING - LAY-IN CEILING
SCALE: NTS



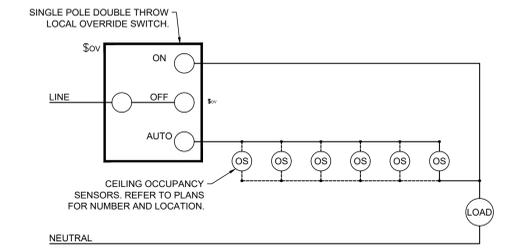
9 ELECTRICAL GROUND BUS BAR DETAIL
SCALE: NTS



10 CONDUIT EXPANSION JOINT CROSSING DETAIL - EXPANSION FITTING
SCALE: NTS



11 CONDUIT EXPANSION JOINT CROSSING DETAIL - FLEXIBLE CONDUIT
SCALE: NTS



12 OCCUPANCY SENSOR OVERRIDE SWITCH LIGHTING CONTROL DETAIL
SCALE: NTS

CONSTRUCTION DOCUMENTS

COMPLIANCY REVIEW INCLUDED	Date
Revisions:	

CONSULTANTS:

TERRASITE DESIGN
 1635 DEADWOOD AVENUE
 RAPID CITY, SOUTH DAKOTA 57702
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ARCHITECT

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 FAX: (605) 342-2377
 WWW.FOURFRONTDESIGN.COM

Drawing Title
ELECTRICAL DETAILS

Approved: Project Director
Omaha VA Medical Center

Project Title
Design/Construct Sterile Processing Service - Omaha VA Medical Center

Location **4101 Woolworth Ave #4199 Omaha, Ne 68105**

Date **11/23/2020**

Checked **WEW**

Drawn **KAB**

Project Number **16.2330.A08**

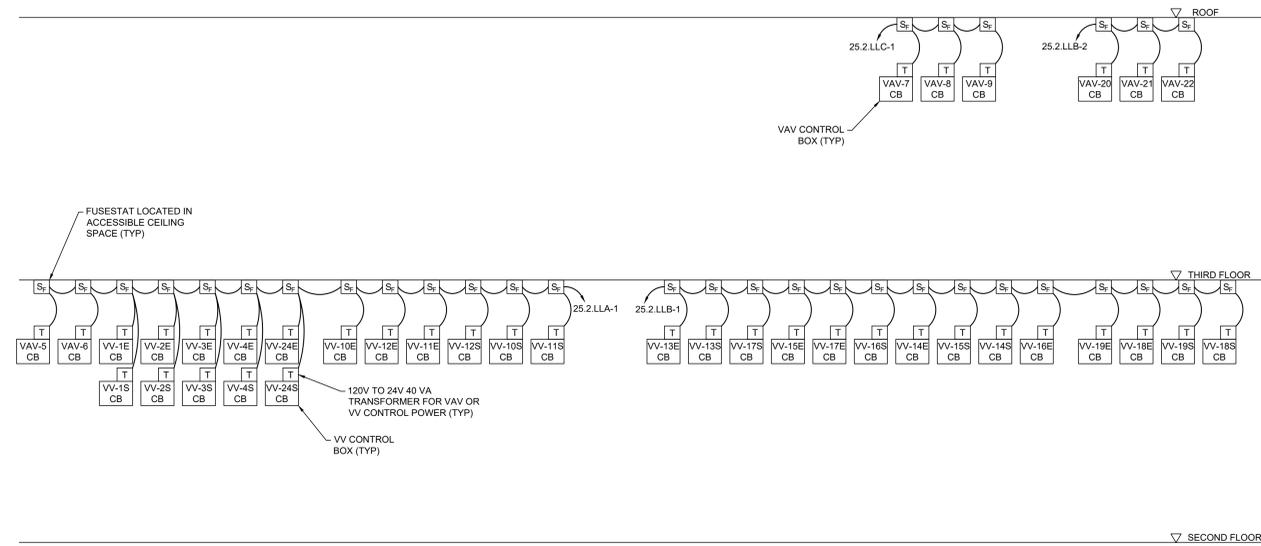
Building Number **25**

Drawing Number **E-004**

Dwg. 121 of 143

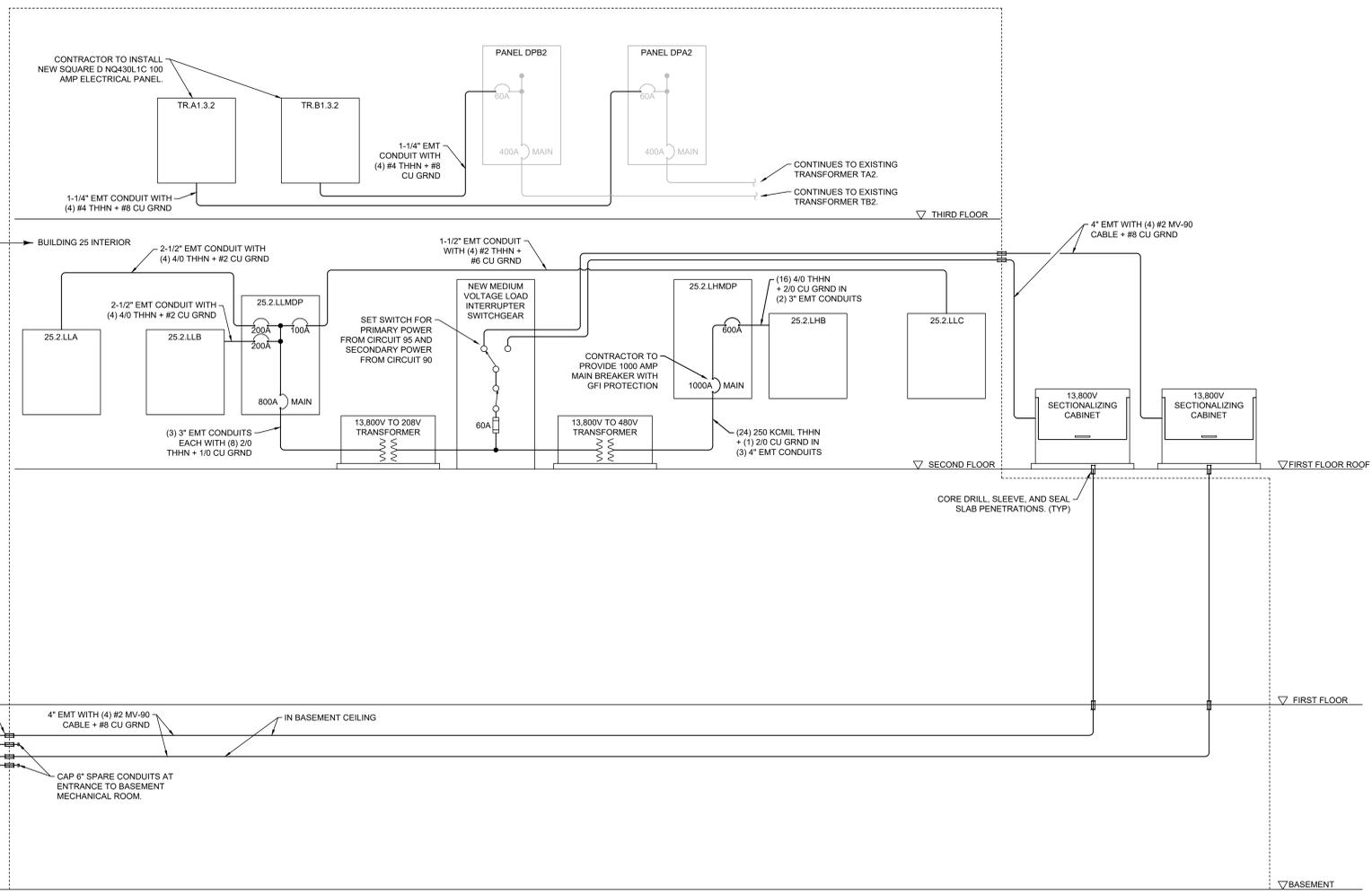
Office of Construction and Facilities Management

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 eleven inches = one foot
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ELECTRICAL SERVICE NOTE
 EXISTING CIRCUIT #95 PROVIDING POWER TO SITE IS 100% BACKED UP FROM EMERGENCY GENERATOR POWER.

1 VAV AND VV POWER DISTRIBUTION SCHEMATIC
 SCALE: NTS

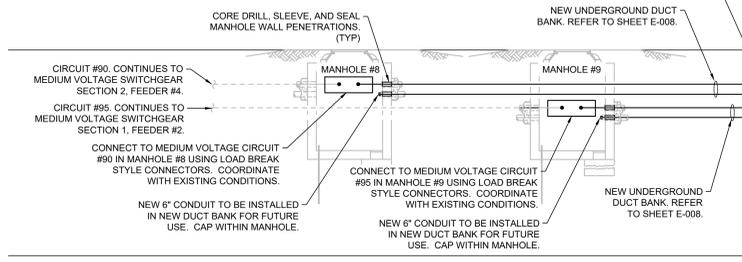


NOTE: FROM INFORMATION PROVIDED TO ENGINEER BY VA CIRCUIT 95 CURRENTLY HAS A CAPACITY OF 225 AMPS TO BUILDING 25 AND IS USING A PEAK DEMAND OF 80 AMPS.

NOTE: FROM INFORMATION PROVIDED TO THE ENGINEER BY VA CIRCUIT 95 IS 100% BACKED UP BY ONSITE GENERATOR REMOVING THE NEED FOR AN ADDITIONAL GENERATOR TO BE INSTALLED ON THIS PROJECT.

NOTE: FROM INFORMATION PROVIDED TO ENGINEER BY VA CIRCUIT 90 HAS A CAPACITY OF 225 AMPS TO BUILDING 25 AND IS USING A PEAK DEMAND OF 30 AMPS.

2 ELECTRICAL POWER DISTRIBUTION SCHEMATIC
 SCALE: NTS



CONSTRUCTION DOCUMENTS

COMPLIANCE REVIEW INCLUDED	Date
Revisions:	

CONSULTANTS:

TERRASITE DESIGN
 1635 DEADWOOD AVENUE
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 FAX: (605) 342-2377
 WWW.FOURFRONTDESIGN.COM

MONTEANA ENGINEERING & DESIGN
 PROFESSIONAL ENGINEERING

Drawing Title
ELECTRICAL SERVICE DETAILS

Approved: Project Director
Omaha VA Medical Center

Project Title
Design/Construct Sterile Processing Service - Omaha VA Medical Center

Project Number
16.2330.A08

Building Number
25

Location **4101 Woolworth Ave #4199 Omaha, Ne 68105**

Date
11/23/2020

Checked
WEW

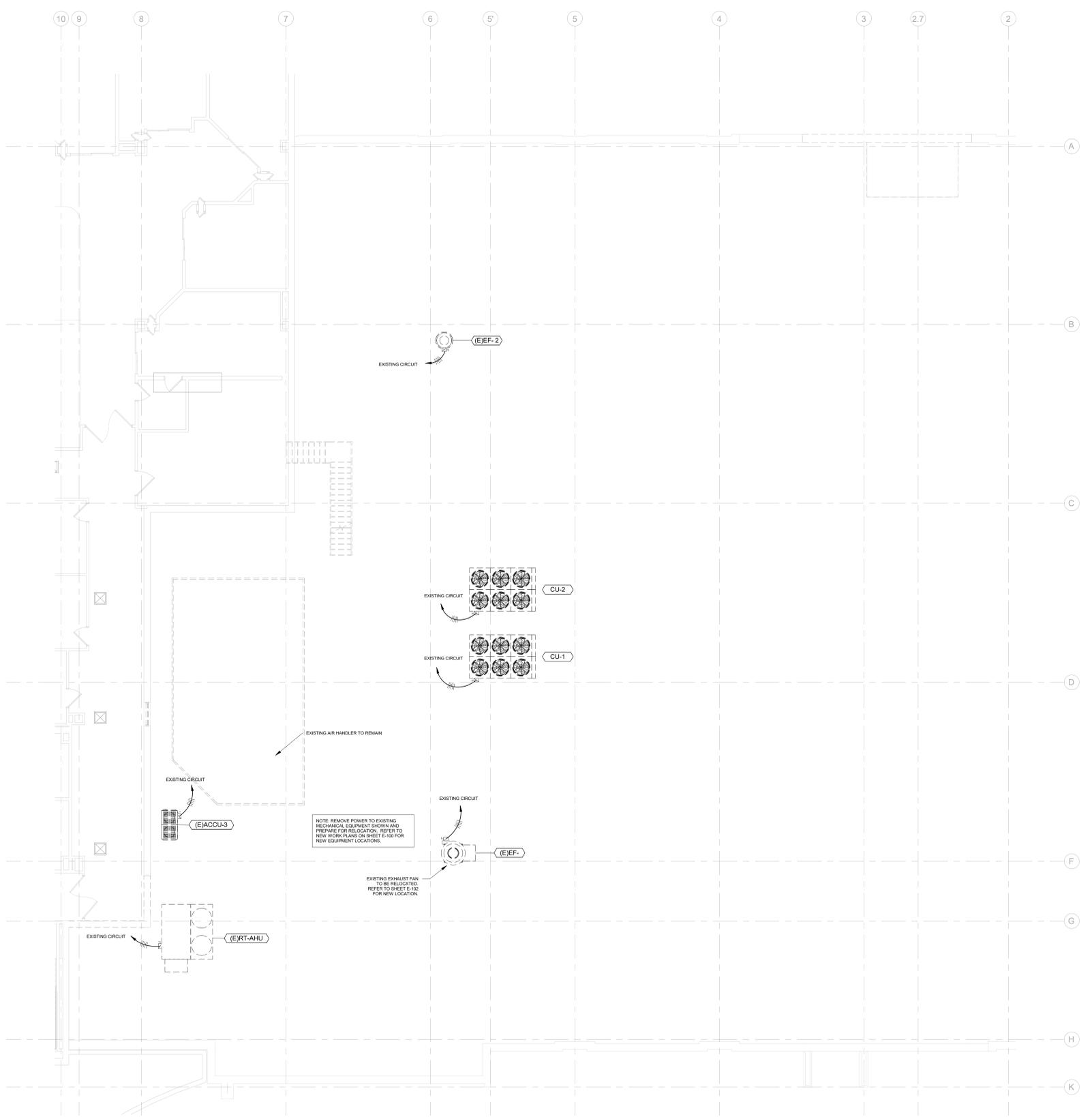
Drawn
KAB

Drawing Number
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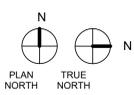
Dwg. 124 of 143

Office of Construction and Facilities Management

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



1 SECOND LEVEL POWER DEMOLITION PLAN
 1/8" = 1'-0"



CONSTRUCTION DOCUMENTS

COMPLIANCY REVIEW INCLUDED	Date
Revisions:	

CONSULTANTS:

TERRASITE DESIGN
 1635 DEADWOOD AVENUE
 RAPID CITY, SOUTH DAKOTA 57702
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Albertson Engineering Inc.

FARRIS ENGINEERING
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 OMAHA, NEBRASKA 68154
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ARCHITECT

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 WWW.FOURFRONTDESIGN.COM

Drawing Title
SECOND LEVEL ELECTRICAL DEMOLITION PLAN

Approved: Project Director
Omaha VA Medical Center

16.2330.A08

Project Title
Design/Construct Sterile Processing Service - Omaha VA Medical Center

Location
4101 Woolworth Ave #4199 Omaha, Ne 68105

Date
 11/23/2020

Checked
 WEW

Drawn
 KAB

Project Number
16.2330.A08

Building Number
25

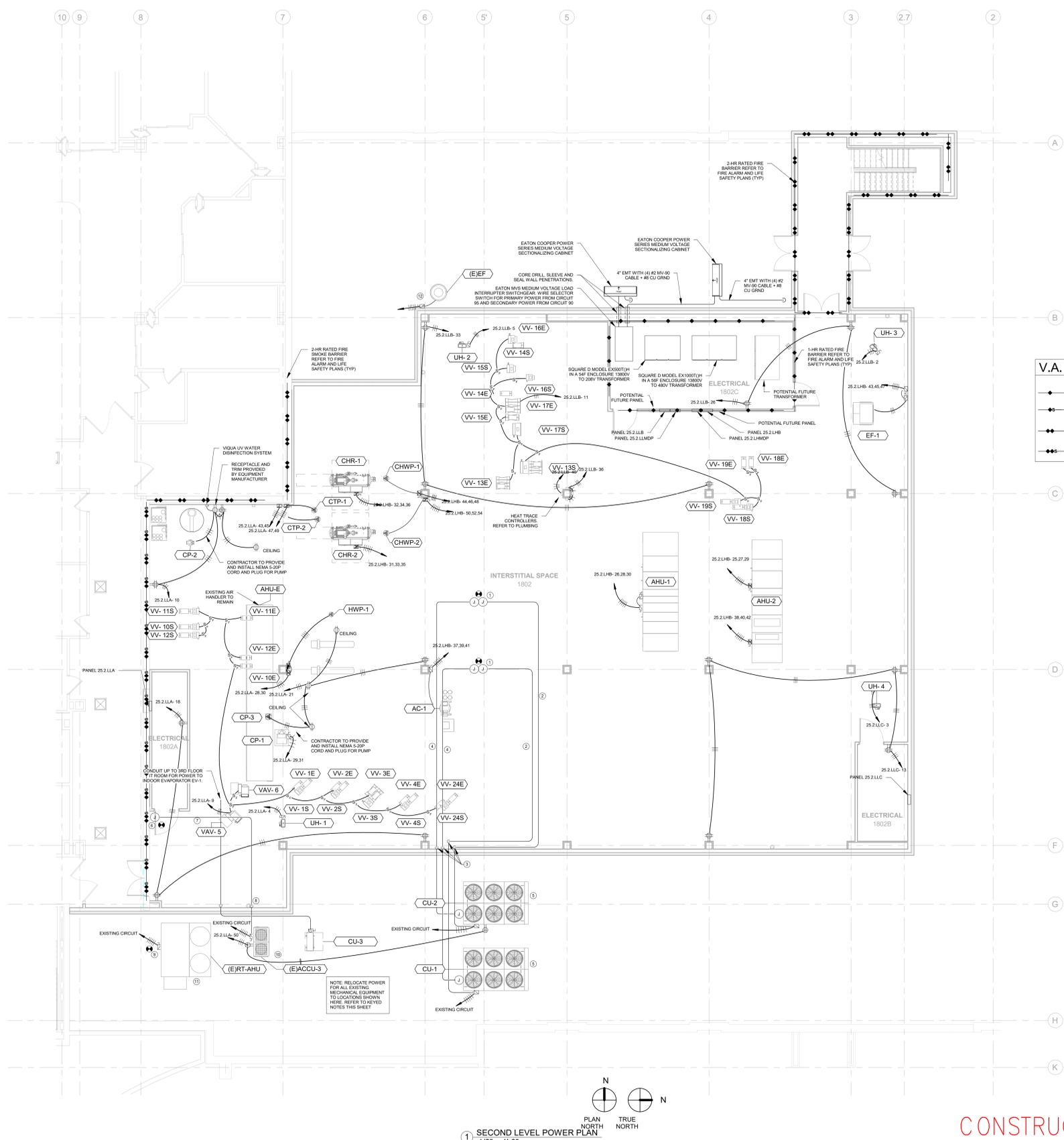
Drawing Number
ED-100

Dwg. 128 of 143

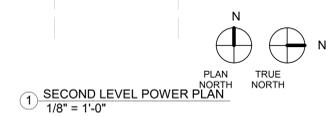
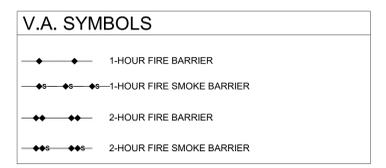
Office of Construction and Facilities Management

Department of Veterans Affairs

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- KEYED ELECTRICAL NOTES**
- NEW JUNCTION BOX AT EXISTING POWER LOCATION OF EXISTING DATA ROOM COOLING UNITS. INSTALL TO EXTEND POWER TO NEW OUTDOOR UNIT LOCATION.
 - NEW 1-1/2" EMT CONDUIT AND CONDUCTOR TO EXTEND POWER FROM EXISTING DATA ROOM OUTDOOR COOLING UNIT TO NEW LOCATION. INSTALL AT CEILING OF 2ND FLOOR.
 - CONDUIT DOWN TO ROOF LEVEL BEFORE PENETRATING NEW WALL.
 - NEW CONDUIT AND BOXES TO EXTEND EXISTING CONTROL WIRE FROM EXISTING OUTDOOR CONDENSING UNIT LOCATION TO NEW LOCATION. FOLLOW HEIGHT AND PATH OF NEW POWER SHOWN.
 - NEW OUTDOOR CONDENSING UNITS LOCATION FOR EXISTING DATA ROOM. REFER TO MECHANICAL PLANS PROVIDE NEW FUSED DISCONNECTS. FOR PHASING AND SHUT DOWN RULES.
 - ADD NEW JUNCTION BOX TO INTERCEPT EXISTING POWER AT EXISTING ACCU-3 LOCATION. ADD BOX FOR CONTROL WIRE ALSO.
 - NEW 1" EMT AND 3/4" EMT NEAR CEILING TO EXTEND POWER AND CONTROL TO NEW ACCU-3 LOCATION.
 - DROP DOWN TO ROOF HEIGHT AND PENETRATE WALL.
 - EXTEND POWER AND CONTROL TO MODIFIED LOCATION OF EXISTING RT-AHU. ADD BOXES, CONDUIT AND CONDUCTOR AS APPROPRIATE TO RELOCATE. REUSE DISCONNECT.
 - NEW ACCU-3 LOCATION. REFER TO DEMOLITION PLANS FOR EXISTING LOCATION. REUSE DISCONNECT.
 - NEW RT-AHU LOCATION. REFER TO DEMOLITION PLANS FOR EXISTING LOCATION.
 - NEW LOCATION OF EXISTING FAN. MODIFY POWER AND EXTEND TO NEW LOCATION. PROVIDE NEW FUSED DISCONNECT. REFER TO DEMOLITION PLANS FOR EXISTING LOCATION.



CONSTRUCTION DOCUMENTS

COMPLIANCE REVIEW INCLUDED	Date
Revisions:	

CONSULTANTS:

TERRASITE DESIGN
 1635 DEADWOOD AVENUE
 RAPID CITY, SOUTH DAKOTA 57702
 PH: (605) 791-1736

Albertson Engineering Inc.

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ARCHITECT

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16.2330.A08

Drawing Title
SECOND LEVEL POWER PLAN

Approved: Project Director
Omaha VA Medical Center

16.2330.A08

Project Title
Design/Construct Sterile Processing Service - Omaha VA Medical Center

Project Number
16.2330.A08

Building Number
25

Drawing Number
E-100

Date
 11/23/2020

Checked
 WEW

Drawn
 JMS

Dwg. 130 of 143

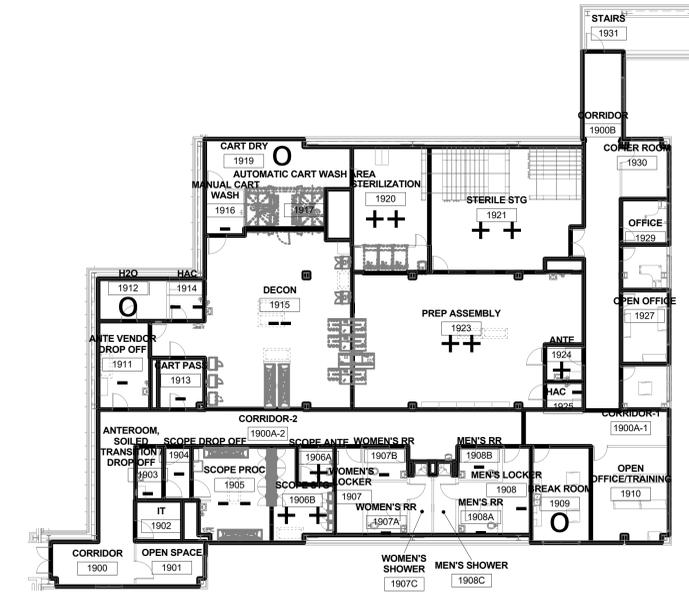
Office of Construction and Facilities Management

Department of Veterans Affairs

EQUIPMENT TAG	MANUFACTURER	MODEL/ DESCRIPTION	QUANTITY	ELECTRICAL CONNECTIONS					NOTES	
				VOLT	PHASE	MOCF	FLA	WATTS		PLUG SIZE
1	AMSCO	COUNTER, CLEANUP, WITH 3 SINKS	4	120	1	20	3	-	5-20R GFI	20 AMP HOSPITAL GRADE GFCI RECEPTACLE
2	AMSCO	WASHER, DISINFECTOR, STM, 100, RSCD1WLL, 26X24X24 SHAM	3	480	3	30	16.5	-	N/A	REQUIRES CAT 6A DATA CONNECTION
3	INNOWAVE	INNOWAVE PCF SONIC IRRIGATOR	2	208	3	30	24	-	N/A	
3A	GETINGE	ULTRASONIC CLEANER TRITON 72	3	208	3	20	-	-	6-20R	
4	AMSCO	RACK RETURN	1	120	1	20	4	-	5-20R	
4A, 10	AMSCO	SCS LOAD-UNLOAD	4	120	1	20	3	-	N/A	
5	VISION	WASHER, CART & UTENSIL, 2 DO, PIT MNTD, RSCD 2 WLL	2	480	3	20	13.5	-	N/A	REQUIRES CAT 6A DATA CONNECTION
7	ADVANTAGE PLUS	WASHER, FIBER SCOPE, PASS-THROUGH	3	120	1	-	-	865	5-20R GFI	REQUIRES CAT 6A DATA CONNECTION
8	AMSCO	40" AUTOMATED PASS-THROUGH WINDOW	2	120	1	20	1	-	N/A	
9	ADVANTAGE PLUS	CABINET, STORAGE, HANGING SCOPES	4	120	1	20	-	75	5-20R GFI	REQUIRES CAT 6A DATA CONNECTION
12	AMSCO	LOW TEMPERATURE STERILIZER	3	208	3	20	16	-	L15-20R	REQUIRES CAT 6A DATA CONNECTION
13	AMSCO	ADJUSTABLE DELUXE WORKSTATION	8	120	1	20	-	-	5-20R QUAD	REQUIRES CAT 6A DATA CONNECTION
14	AMSCO	AMSCO 400 SERIES SMALL STEAM STERILIZER	1	480/120	3/1	4/15	3/2	-	-	TWO POWER SUPPLIES REQUIRED: 480V POWER SUPPLY FOR EQUIPMENT POWER AND 120 V POWER SUPPLY FOR EQUIPMENT CONTROL POWER. REQUIRES CAT 6A DATA CONNECTION
15	AMSCO	AMSCO 600 MEDIUM STEAM STERILIZER	3	480	3	20	7	-	-	REQUIRES CAT 6A DATA CONNECTION

GENERAL NOTE: ALL MEDICAL EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT BY THE GENERAL CONTRACTOR. PLUMBING AND MECHANICAL CONTRACTORS TO PROVIDE ALL PROPER UTILITY CONNECTIONS AND ACCESSORIES PER THIS SCHEDULE AND EQUIPMENT MANUFACTURE WRITTEN INSTRUCTIONS.

- PRESSURE LEGEND**
- H2O ROOM NAME
 - 1912 ROOM NUMBER
 - ROOM PRESSURIZATION
- PRESSURIZATION SYMBOL**
- ++ MOST POSITIVE
 - + SLIGHTLY POSITIVE
 - NEUTRAL
 - SLIGHTLY NEGATIVE
 - MOST NEGATIVE



② Pressure Key Plan
1/16" = 1'-0"

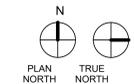
V.A. SYMBOLS

- ◆ 1-HOUR FIRE BARRIER
- ◆◆ 1-HOUR FIRE SMOKE BARRIER
- ◆◆◆ 2-HOUR FIRE BARRIER
- ◆◆◆◆ 2-HOUR FIRE SMOKE BARRIER

KEYED ELECTRICAL NOTES

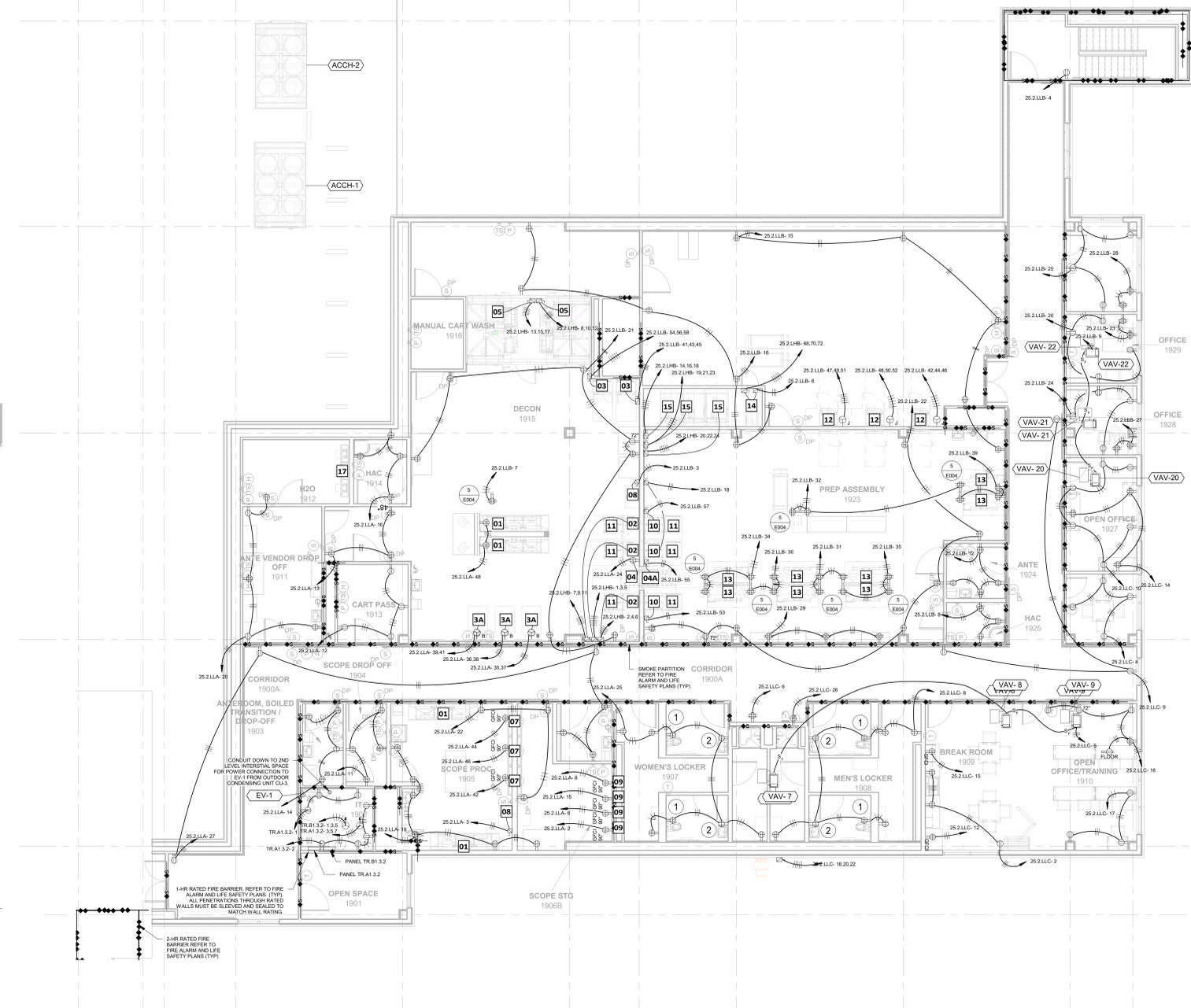
- PLUG SLOAN TRANSFORMER FOR WATER CLOSET FLUSH VALVE POWER INTO GFCI RECEPTACLE SHOWN
- PLUG SLOAN TRANSFORMER FOR LAVATORY FAUCET INTO GFCI RECEPTACLE SHOWN

① THIRD LEVEL POWER PLAN
1/8" = 1'-0"



GENERAL CONSTRUCTION NOTES

CONTRACTOR TO PROVIDE AND INSTALL GASKETED COVERPLATES ON ALL DEVICES AND DUCT SEAL ALL BOXES AND THE CONDUITS ATTACHING TO THE BOXES. APPLIES TO ALL PRESSURE CONTROLLED AREAS.

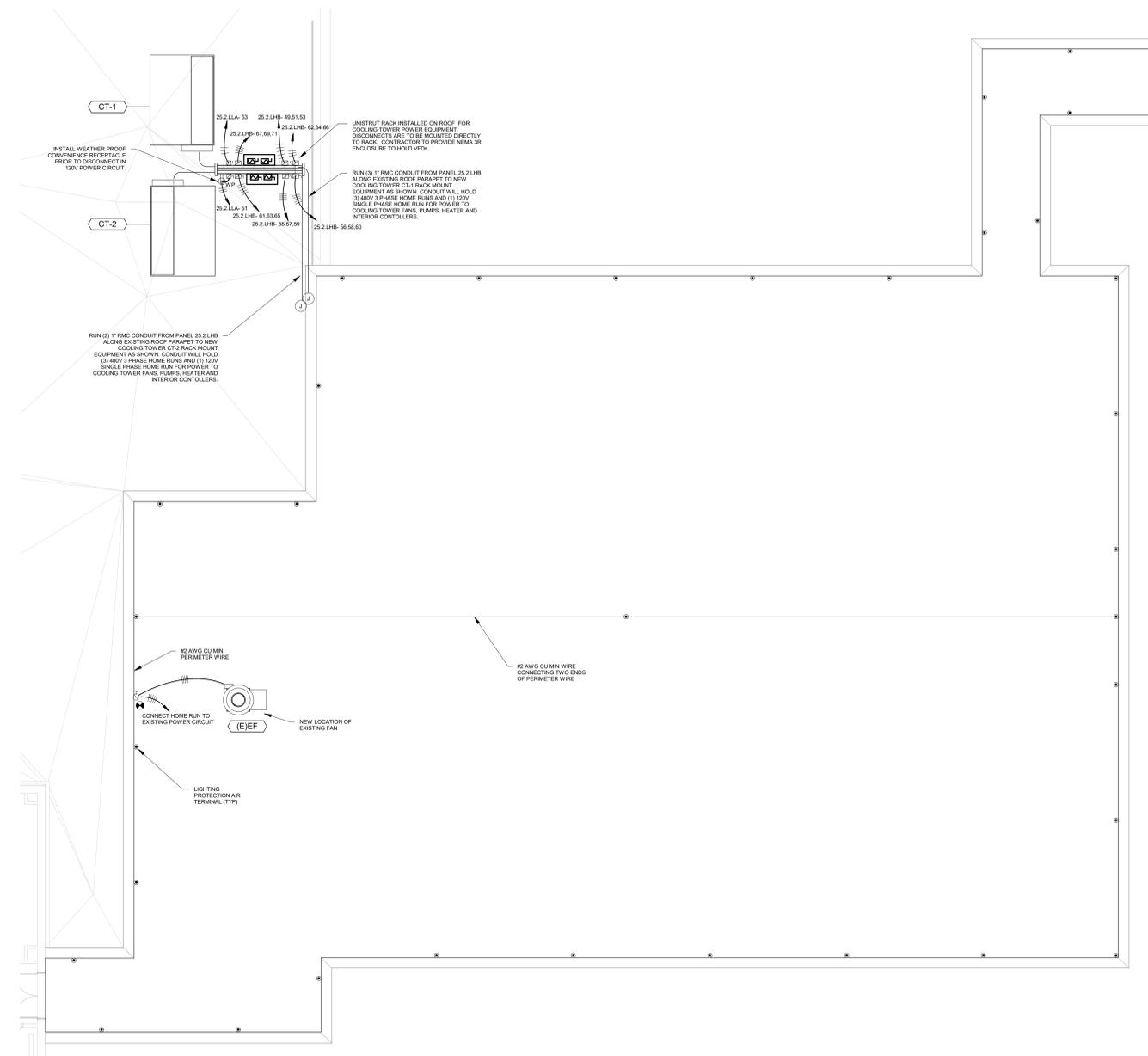
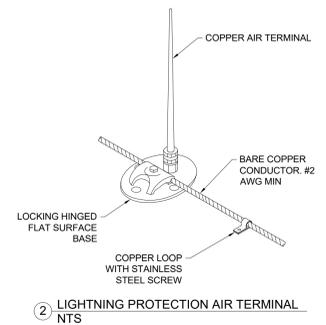


CONSTRUCTION DOCUMENTS

COMPLIANCE REVIEW INCLUDED Revisions: _____ Date: _____	CONSULTANTS: TERRASITE DESIGN 1635 DEADWOOD AVENUE RAPID CITY, SOUTH DAKOTA 57702 PH: (605) 791-1736 ALBERTSON ENGINEERING, INC. 315 NORTH MAIN AVENUE, SUITE 200 SIOUX FALLS, SOUTH DAKOTA 57104 PH: (605) 274-0880 FARRIS ENGINEERING 12700 WEST DODGE ROAD OMAHA, NEBRASKA 68154 PH: (402) 330-5900	 ARCHITECT FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM	Drawing Title THIRD LEVEL POWER PLAN Approved: Project Director Omaha VA Medical Center 16.2330.A08	Project Title Design/Construct Sterile Processing Service - Omaha VA Medical Center Location 4101 Woolworth Ave #4199 Omaha, Ne 68105 Date 11/23/2020	Project Number 16.2330.A08 Building Number 25 Drawing Number E-101 Dwg. 131 of 143	Office of Construction and Facilities Management Department of Veterans Affairs
	Checked: WEW Drawn: KAB					

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 three quarters inch = one foot
 one inch = one foot
 one and one half inches = one foot
 one and one half inches = one foot
 one and one half inches = one foot



① ROOF LEVEL ELECTRICAL PLAN
 1/8" = 1'-0"

PLAN NORTH TRUE NORTH

CONSTRUCTION DOCUMENTS

COMPLIANCE REVIEW INCLUDED	Date
Revisions:	

CONSULTANTS:

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16.2330.A08

Drawing Title
ROOF LEVEL ELECTRICAL PLAN

Approved: Project Director
Omaha VA Medical Center

Project Title
Design/Construct Sterile Processing Service - Omaha VA Medical Center

Location
4101 Woolworth Ave #4199 Omaha, Ne 68105

Date
 11/23/2020

Checked
 WEW

Drawn
 KAB

Project Number
16.2330.A08

Building Number
25

Drawing Number
E-102

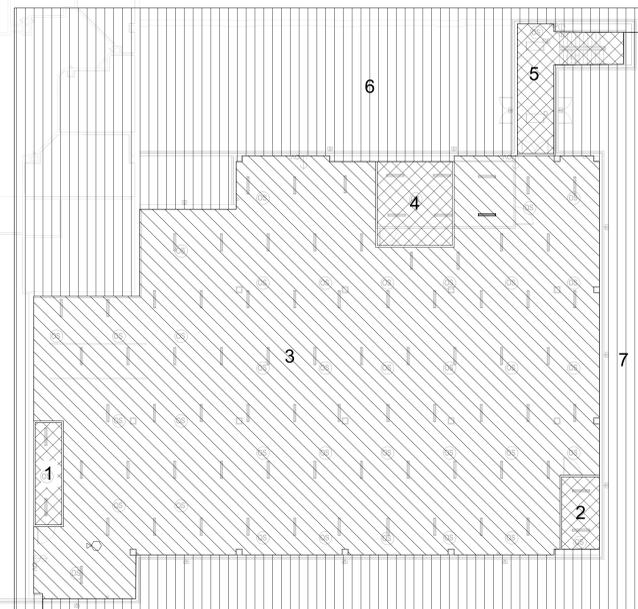
Dwg. 132 of 143

Office of Construction and Facilities Management

Department of Veterans Affairs

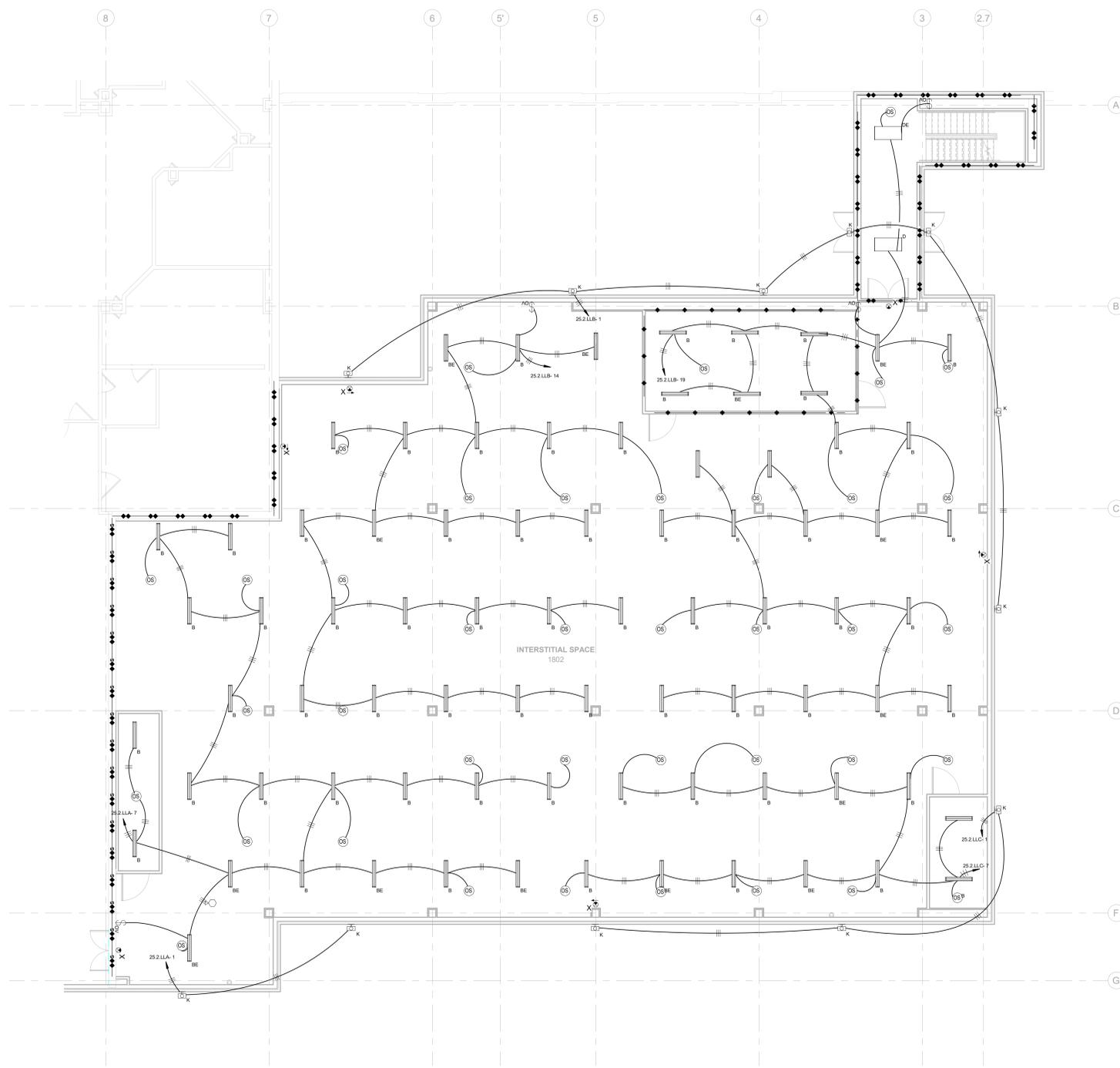
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V.A. SYMBOLS	
	1-HOUR FIRE BARRIER
	1-HOUR FIRE SMOKE BARRIER
	2-HOUR FIRE BARRIER
	2-HOUR FIRE SMOKE BARRIER

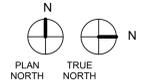


2 SECOND LEVEL LIGHTING ZONE PLAN
1/16" = 1'-0"

FLOOR 2 LIGHTING CONTROL ZONE NOTES	
1. ZONE 1	LUMINAIRE B (1X4 STRIP LIGHTS)
1.1.1.	AUTO ON (CEILING OCCUPANCY SENSORS)
1.1.2.	AUTO OFF (CEILING OCCUPANCY SENSORS)
2. ZONE 2	LUMINAIRE B (1X4 STRIP LIGHTS)
2.1.1.	AUTO ON (CEILING OCCUPANCY SENSORS)
2.1.2.	AUTO OFF (CEILING OCCUPANCY SENSORS)
3. ZONE 3	LUMINAIRE B (1X4 STRIP LIGHTS)
3.1.1.	AUTO ON (CEILING OCCUPANCY SENSORS)
3.1.2.	AUTO OFF (CEILING OCCUPANCY SENSORS)
3.1.3.	MANUAL ON (OVERRIDE SWITCHES)
3.1.4.	MANUAL OFF (OVERRIDE SWITCHES)
4. ZONE 4	LUMINAIRE B (1X4 STRIP LIGHTS)
4.1.1.	AUTO ON (CEILING OCCUPANCY SENSORS)
4.1.2.	AUTO OFF (CEILING OCCUPANCY SENSORS)
5. ZONE 5	LUMINAIRE D (2X4 TROFFERS)
5.1.1.	AUTO ON (CEILING OCCUPANCY SENSORS)
5.1.2.	AUTO OFF (CEILING OCCUPANCY SENSORS)
5.1.3.	MANUAL ON (OVERRIDE SWITCHES)
5.1.4.	MANUAL OFF (OVERRIDE SWITCHES)
6. ZONE 6	LUMINAIRE K (OUTDOOR)
6.1.1.	AUTO ON
6.1.2.	AUTO OFF
7. ZONE 7	LUMINAIRE K (OUTDOOR)
7.1.1.	AUTO ON
7.1.2.	AUTO OFF



1 SECOND LEVEL LIGHTING PLAN
1/8" = 1'-0"



CONSTRUCTION DOCUMENTS

COMPLIANCE REVIEW INCLUDED	Date
Revisions:	

CONSULTANTS:

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Drawing Title	SECOND LEVEL LIGHTING PLAN
Approved: Project Director	Omaha VA Medical Center
16.2330.A08	

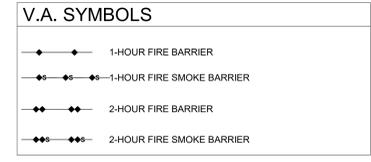
Project Title	Design/Construct Sterile Processing Service - Omaha VA Medical Center
Location	4101 Woolworth Ave #4199 Omaha, Ne 68105
Date	11/23/2020
Checked	WEW
Drawn	KAB
Project Number	16.2330.A08
Building Number	25
Drawing Number	E-200
Dwg. 133 of 143	

Office of Construction and Facilities Management

Department of Veterans Affairs

6/11/2025 4:22:19 PM

GENERAL CONSTRUCTION NOTES
 CONTRACTOR TO PROVIDE AND INSTALL GASKETTED COVERPLATES ON ALL DEVICES AND DUCT SEAL ALL BOXES AND THE CONDUITS ATTACHING TO THE BOXES. APPLIES TO ALL PRESSURE CONTROLLED AREAS.

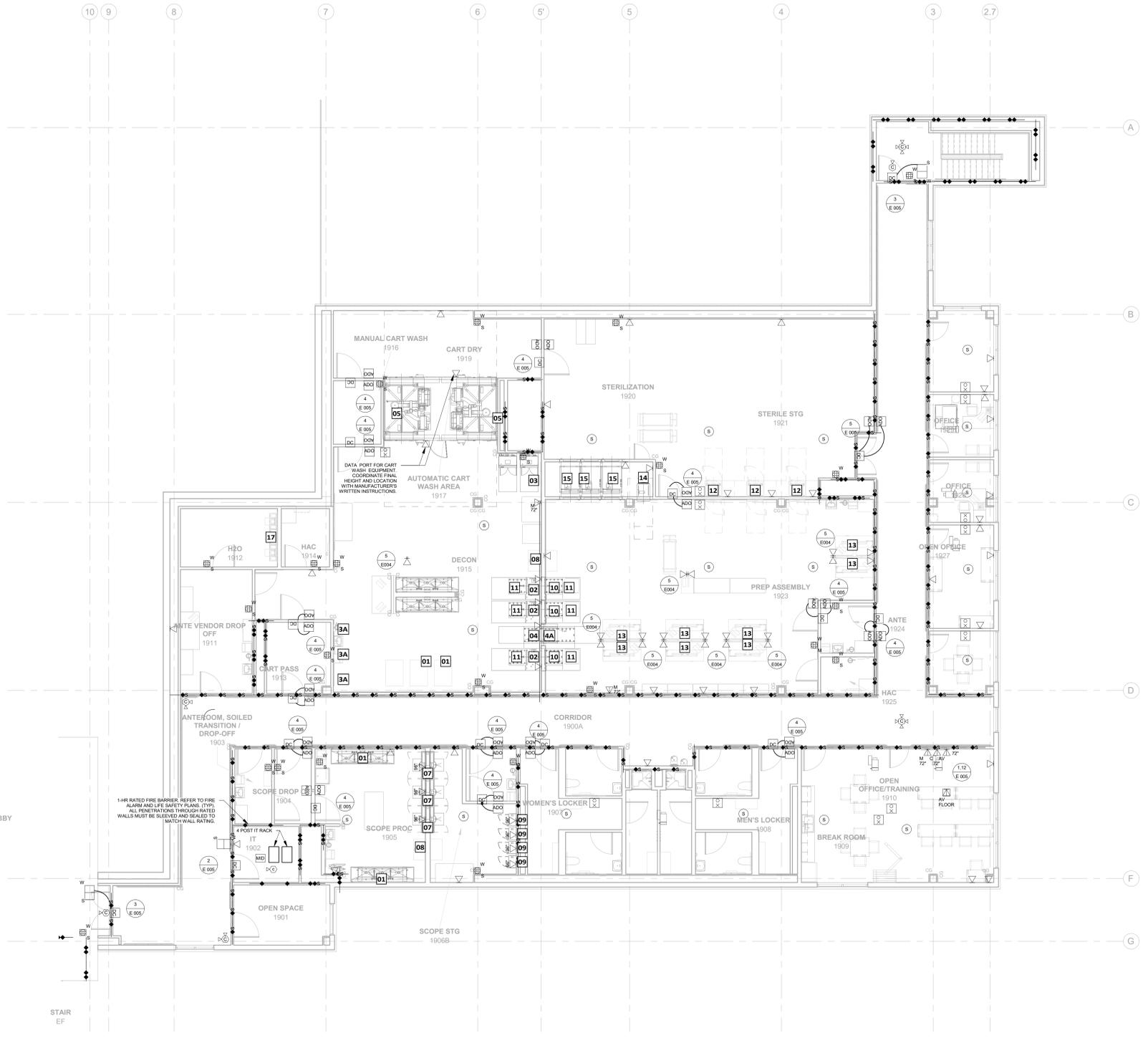


SPECIAL SYSTEMS LEGEND

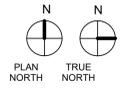
SYMBOL	DESCRIPTION
TTB	TELECOMMUNICATIONS BACKBOARD (WALL MTD)
EH	ELECTRIC POWER HINGE
DC	DOOR CONTACT
ADO	AUTOMATIC DOOR OPENER
MID	MOTION INTRUSION DETECTOR
SSTV	SECURITY SURVEILLANCE TELEVISION
C	CAMERA
C/C	360 CAMERA
M/MOUNT	CARD ACCESS READER; LETTER INDICATES AS FOLLOWS: M-MOUNT C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION P-PEDESTAL R-RACK S-SURFACE W-WALL T=TECHNOLOGY/TYPE B-BARCODE M-MAG STRIP F-ELEVATOR FLOOR CALL P-PROXIMITY H-ELEVATOR HALL CALL S-SMART CARD T-TOKEN
M/MOUNT	ELECTRONIC LOCK; LETTER INDICATES AS FOLLOWS: M-MOUNT C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION P-PEDESTAL R-RACK S-SURFACE W-WALL T=TECHNOLOGY/TYPE D-DEADBOLT H-HYBRID L-LATCH SET M-MAGNETIC S-STRIKE
M/MOUNT	INTERCOM; LETTER INDICATES AS FOLLOWS: M-MOUNT C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION P-PEDESTAL R-RACK S-SURFACE W-WALL T=TECHNOLOGY/TYPE M-MASTER S-SUBSTATION
PA	DURRESS/PANIC ALARM PUSH BUTTON
EM	ELECTROMAGNETIC TYPE DOOR HOLDER OUTLET
CFR	COMMUNICATIONS FLOOR RECEPTACLE
CWR	COMMUNICATIONS WALL RECEPTACLE
CCR	COMMUNICATIONS CEILING RECEPTACLE
TFR	TELEVISION FLOOR RECEPTACLE C = CAMERA (CCTV SYSTEM) M = MONITOR (CATV SYSTEM) AV = AUDIO VISUAL (CONFERENCE ROOM CONNECTION RECEPTABLES)
TWR	TELEVISION WALL RECEPTACLE C = CAMERA (CCTV SYSTEM) M = MONITOR (CATV SYSTEM) AV = AUDIO VISUAL (CONFERENCE ROOM CONNECTION RECEPTABLES)
TCR	TELEVISION CEILING RECEPTACLE C = CAMERA (CCTV SYSTEM) M = MONITOR (CATV SYSTEM) AV = AUDIO VISUAL (CONFERENCE ROOM CONNECTION RECEPTABLES)
PS	PAGING SPEAKER; CEILING MOUNTED
PSW	PAGING SPEAKER; WALL MOUNTED



2 PRESSURE KEY PLAN
 1/16" = 1'-0"



1 LEVEL THREE SPECIAL SYSTEMS PLAN
 1/8" = 1'-0"



PRESSURE LEGEND

H2O ROOM NAME
 1912 ROOM NUMBER
 O ROOM PRESSURIZATION

PRESSURIZATION SYMBOL

++ MOST POSITIVE
 + SLIGHTLY POSITIVE
 O NEUTRAL
 - SLIGHTLY NEGATIVE
 -- MOST NEGATIVE

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ARCHITECT

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Drawing Title
LEVEL THREE SPECIAL SYSTEMS PLAN

Approved: Project Director
Omaha VA Medical Center

Project Title
Design/Construct Sterile Processing Service - Omaha VA Medical Center

Location
4101 Woolworth Ave #4199 Omaha, Ne 68105

Project Number
16.2330.A08

Building Number
25

Drawing Number
E-301

Office of Construction and Facilities Management



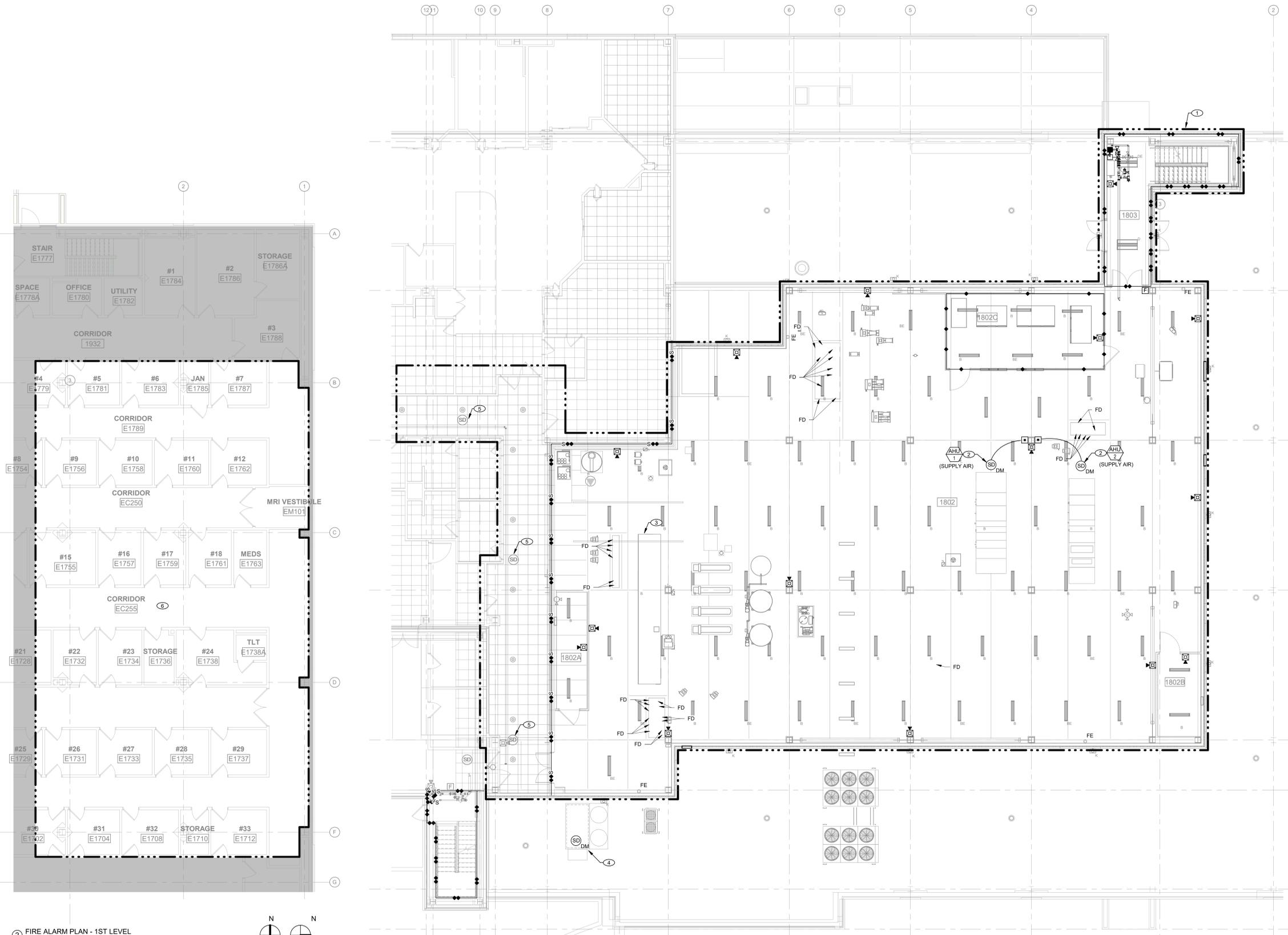
CONSTRUCTION DOCUMENTS

16.2330.A08

Dwg. 135 of 143

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one eighth inch = one foot
 one quarter inch = one foot
 three eighths inch = one foot
 one half inch = one foot
 three quarters inch = one foot
 one inch = one foot
 one and one half inches = one foot
 two inches = one foot
 three inches = one foot
 four inches = one foot
 five inches = one foot
 six inches = one foot
 seven inches = one foot
 eight inches = one foot
 nine inches = one foot
 ten inches = one foot
 eleven inches = one foot
 twelve inches = one foot



- KEYNOTES**
- 1 PROVIDE NEW FIRE ALARM DEVICES IN AREA, WITHIN DASHED OUTLINE FOR CODE REQUIRED ALARM NOTIFICATION. AUDIBLE NOTIFICATION SHALL BE PROVIDED VIA CEILING MOUNTED SPEAKERS IN AREAS WITH CEILINGS AND WALL MOUNTED SPEAKERS IN AREAS WITHOUT CEILINGS. VISUAL NOTIFICATION SHALL BE PROVIDED VIA CEILING MOUNTED VISUAL SIGNAL IN AREAS WITH CEILINGS AND WALL MOUNTED SPEAKERS IN AREAS WITHOUT CEILINGS.
 - 2 COORDINATE LOCATION OF AHUS AND CORRESPONDING SUPPLY DUCTWORK LOCATIONS WITH MECHANICAL PLANS AND CONTRACTOR.
 - 3 EXISTING AHU TO REMAIN, MAINTAIN EXISTING CORRESPONDING FIRE ALARM DEVICES SERVING UNIT. COORDINATE DUCTWORK LOCATIONS WITH MECHANICAL PLANS AND CONTRACTOR.
 - 4 EXISTING AHU TO BE RELOCATED. RELOCATE AND RECONNECT CORRESPONDING FIRE ALARM DEVICES SERVING UNIT. COORDINATE DUCTWORK LOCATIONS WITH MECHANICAL PLANS AND CONTRACTOR.
 - 5 REMOVE EXISTING CEILING MOUNTED FIRE ALARM DEVICES AS REQUIRED FOR CEILING AND ABOVE CEILING WORK IN CORRIDOR. REINSTALL AND RECONNECT DEVICES AFTER COMPLETION OF CEILING WORK.
 - 6 COORDINATE REMOVAL OF EXISTING CEILING MOUNTED FIRE ALARM DEVICES IN AREA OF FIRST FLOOR AS REQUIRED FOR CEILING AND ABOVE CEILING WORK IN AREA SHOWN. REINSTALL AND RECONNECT DEVICES AFTER COMPLETION OF CEILING WORK. COORDINATE LEVEL OF CEILING WORK WITH ARCHITECTURAL AND STRUCTURAL.

ROOM SCHEDULE SECOND LEVEL

NUMBER	NAME
1802	INTERSTITIAL SPACE
1802A	ELECTRICAL
1802B	ELECTRICAL
1802C	ELECTRICAL
1803	STAIRS

ROOM SCHEDULE FIRST LEVEL

NUMBER	NAME
E1700	CHECK IN
E1701	STAIR
E1702	#30
E1704	#31
E1705	INTAKE
E1707	SOILED
E1708	#32
E1709	#34
E1710	STORAGE
E1711	OFFICES
E1711A	TLT
E1711B	CLOSET
E1712	#33
E1713	#34
E1726	#20
E1728	#21
E1729	#25
E1731	#26
E1732	#22
E1733	#27
E1734	#23
E1735	#28
E1736	STORAGE
E1737	#29
E1738	#24
E1738A	TLT
E1750	CHECK IN
E1751	#17
E1753	#14
E1754	#8
E1755	#15
E1756	#9
E1757	#16
E1758	#10
E1759	#17
E1760	#11
E1761	#18
E1762	#12
E1763	MEDS
E1777	STAIR
E1778	SPACE
E1778A	SPACE
E1779	#4
E1780	OFFICE
E1781	#5
E1782	UTILITY
E1783	#6
E1784	#1
E1785	JAN
E1786	#2
E1786A	STORAGE
E1787	#7
E1788	#3
E1789	CORRIDOR

② FIRE ALARM PLAN - 1ST LEVEL
 1/8" = 1'-0"

③ FIRE ALARM PLAN - 2ND LEVEL
 1/8" = 1'-0"

BID DOCUMENTS

COMPLIANCY REVIEW INCLUDED

Revisions:

Date	2/23/2024
------	-----------

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Drawing Title
FIRE ALARM PLANS - 1ST LEVEL & 2ND LEVEL

Approved: Project Director
Omaha VA Medical Center

Project Title
Design/Construct Sterile Processing Service- Omaha VA Medical Center

Location
4101 Woolworth Ave #4199 Omaha, Ne 68105

Date
 11/23/2020

Checked
 EMN

Drawn
 SCT

Project Number
16.2330.A08

Building Number
25

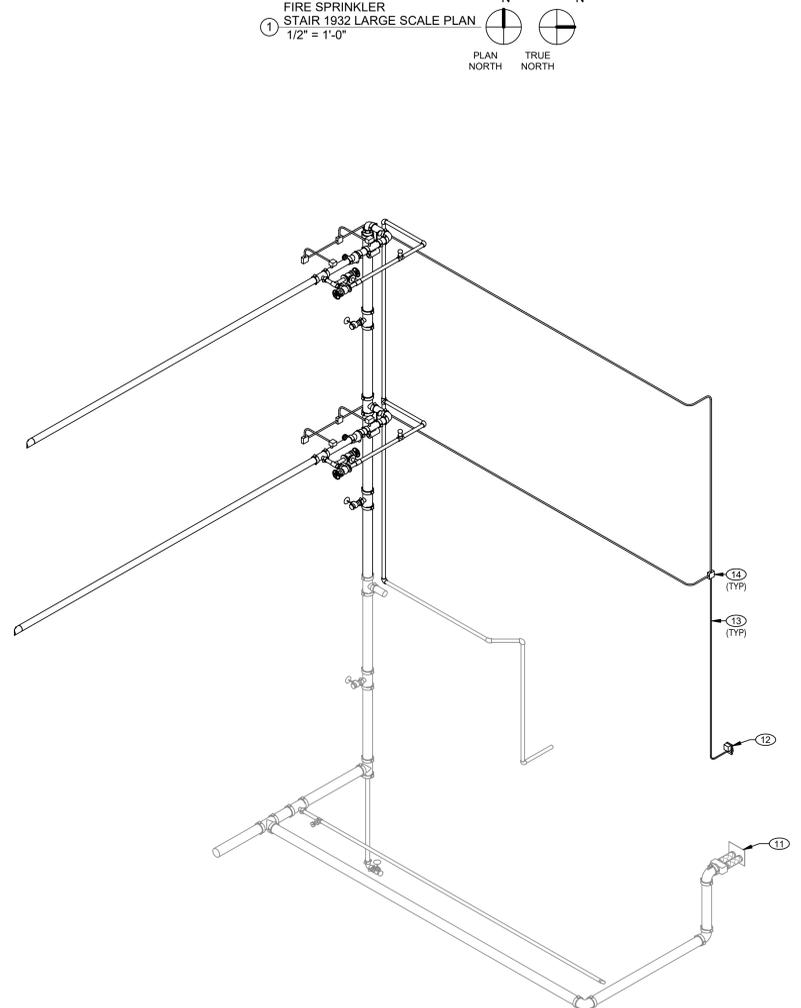
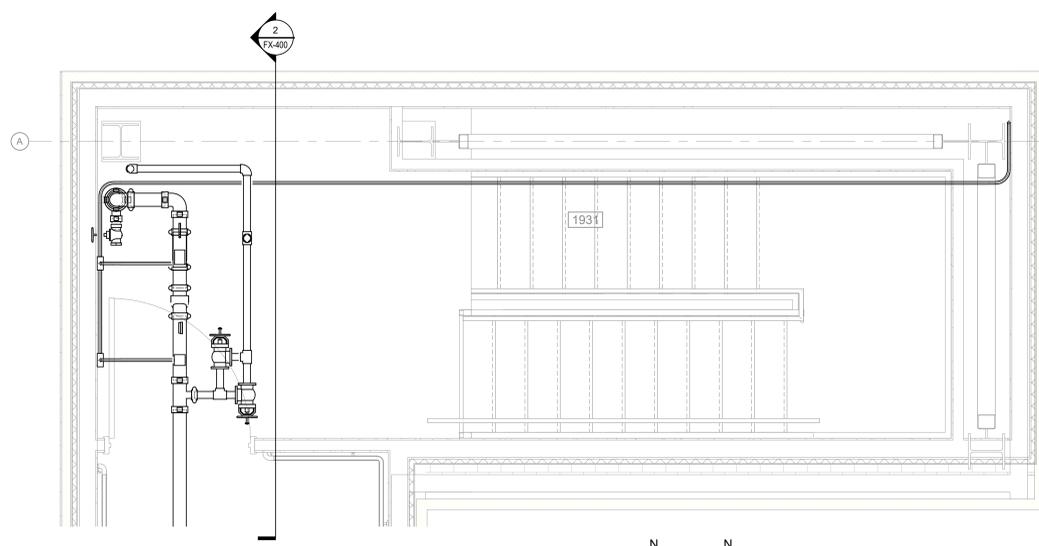
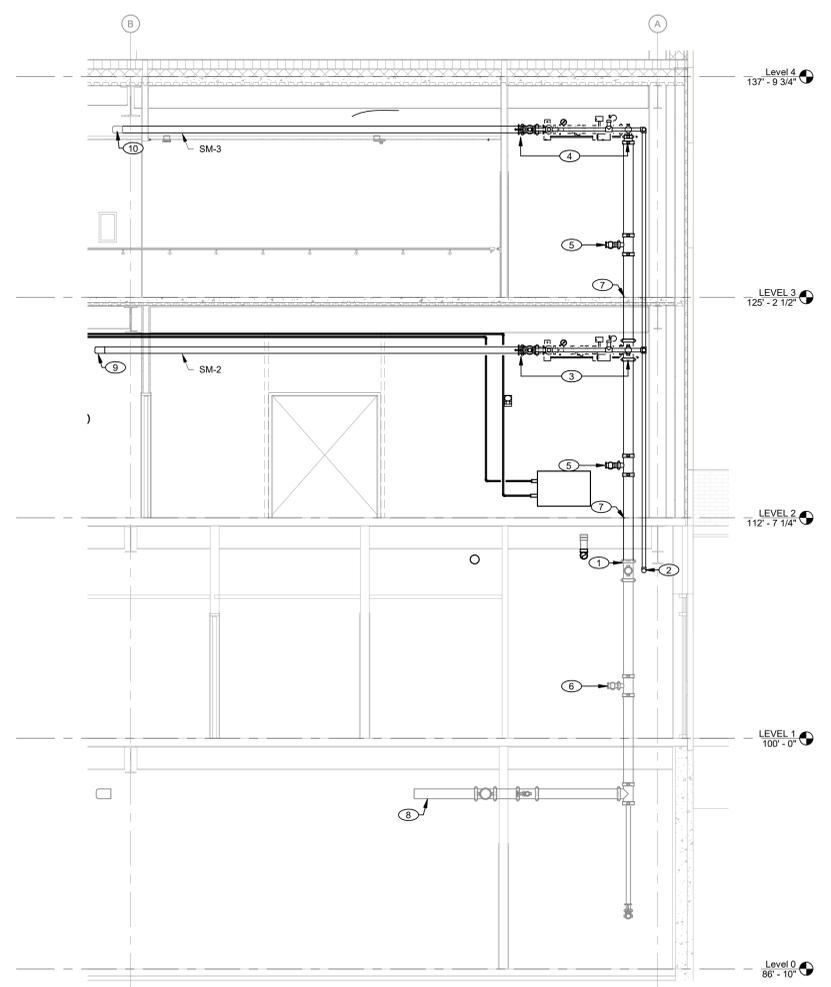
Drawing Number
FA-100

Dwg. 138 of 143

Office of Construction and Facilities Management

Department of Veterans Affairs

11/23/2020 3:26:17 PM
 one eighth inch = one foot
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 three eighths inch = one foot
 one half inch = one foot
 three quarters inch = one foot
 one inch = one foot
 one and one half inches = one foot
 two inches = one foot
 three inches = one foot
 four inches = one foot
 six inches = one foot
 one foot = one foot



KEYNOTES	
1	REMOVE EXISTING 4" CAP AT THE TOP OF THE EXISTING STANDPIPE RISER AND EXTEND TO SERVE NEW ADDITION. RISER SHALL BECOME A COMBINATION STANDPIPE AND FIRE SPRINKLER RISER.
2	EXTEND NEW DRAIN LINE TO EXISTING DRAIN ON LEVEL ONE IN THE MECHANICAL ROOM. FIELD VERIFY EXISTING CONDITIONS.
3	PROVIDE ZONE CONTROL VALVE ASSEMBLY PER DETAIL 3 ON SHEET FX-000 PRIOR TO SERVING SECOND LEVEL OF SPRINKLERS. SM-2. COORDINATE PIPE ROUTING WITH ALL OTHER DISCIPLINES. CONTRACTOR DO DETERMINE ACTUAL ZONE NUMBER FROM BUILDING MAINTENANCE PRIOR TO PROVIDING FIRE ALARM ADDRESS. ZONE SHALL SERVE ENTIRE SECOND LEVEL OF ADDITION ONLY WHICH SHALL BE A SINGLE SMOKE ZONE. PROVIDE ALL NFPA 13 REQUIRED SIGNAGE, TO INCLUDE REMOTE DESIGN AREA PLACARD, AS NOTED IN PROJECT SPECIFICATIONS.
4	PROVIDE ZONE CONTROL VALVE ASSEMBLY PER DETAIL 3 ON SHEET FX-100 PRIOR TO SERVING THIRD LEVEL OF SPRINKLERS. SM-3. COORDINATE PIPE ROUTING WITH ALL OTHER DISCIPLINES. CONTRACTOR DO DETERMINE ACTUAL ZONE NUMBER FROM BUILDING MAINTENANCE PRIOR TO PROVIDING FIRE ALARM ADDRESS. ZONE SHALL SERVE ENTIRE THIRD LEVEL OF ADDITION ONLY WHICH SHALL BE A SINGLE SMOKE ZONE. PROVIDE ALL NFPA 13 REQUIRED SIGNAGE, TO INCLUDE REMOTE DESIGN AREA PLACARD, AS NOTED IN PROJECT SPECIFICATIONS.
5	PROVIDE 2-1/2" STANDPIPE HOSE VALVE WITH THREADS MATCHING THE OMAHA FIRE DEPARTMENT REQUIREMENTS. INSTALL WITH CENTER OF PIPE LOCATED AT 3'-0" A.F.F. UNLESS DIRECTED TO PROVIDE AT A DIFFERENT ELEVATION BY THE OMAHA FIRE DEPARTMENT.
6	EXISTING STANDPIPE HOSE VALVE TO REMAIN.
7	PROVIDE PIPE FLOOR SEAL PER DETAIL 2 ON SHEET FX-000. PROVIDE RISER CLAMP AT EACH FLOOR PENETRATION. CLAMP SHALL BE IN ACCORDANCE WITH NFPA 13 GUIDELINES.
8	EXISTING 6" SPRINKLER MAIN TO REMAIN. FIELD VERIFY EXISTING CONDITIONS PRIOR TO CREATION OF SHOP DRAWING SUBMITTAL.
9	TO SM-2 ZONE OF SPRINKLERS.
10	TO SM-3 ZONE OF SPRINKLERS.
11	EXISTING FLUSH WALL MOUNTED FIRE DEPARTMENT CONNECTION (FDC) SERVES EXISTING STANDPIPE RISER TO REMAIN. CONTRACTOR SHALL PROVIDE NFPA 25 INSPECTION OF DEVICE AND REPAIR AS INSPECTION DETERMINES IS NECESSARY.
12	PROVIDE NEW COMBINATION AUDIOVISUAL SIGN LIKE SASH SERIES MANUFACTURED BY POTTER ROHMER OR APPROVED EQUAL. DEVICE SHALL BE RATED FOR OUTSIDE INSTALLATION AND SHALL BE INSTALLED CENTERED OVER EXISTING FLUSH WALL MOUNTED FDC. LOCATED 8'-10" ABOVE FINAL EXTERNAL GRADE. CONDUIT SHALL BE ROUTED IN NEW MECHANICAL ROOM ON THE FIRST LEVEL OF THE FACILITY.
13	FIRE ALARM CONDUIT SHALL BE PAINTED RED AND SHALL BE INSTALLED BY FIRE ALARM INSTALLING CONTRACTOR. COORDINATE ALL ALARM REQUIREMENTS WITH FIRE ALARM INSTALLING CONTRACTOR.
14	FIRE ALARM JUNCTION BOX SHALL HAVE RED COVER.

COMPLIANCY REVIEW INCLUDED	2/23/2024
Revisions:	Date

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11/23/2020

Drawing Title
FIRE SUPPRESSION LARGE SCALE PLAN AND SECTIONS

Approved: Project Director
Omaha VA Medical Center

16.2330.A08

Project Title
Design/Construct Sterile Processing Service- Omaha VA Medical Center

Project Number
16.2330.A08

Building Number
25

Location
4101 Woolworth Ave #4199 Omaha, Ne 68105

Date
 11/23/2020

Checked
 DGK

Drawn
 DGK

Drawing Number
FX-400

Dwg. 143 of 143

Office of Construction and Facilities Management

Department of Veterans Affairs

BID DOCUMENTS