

FORM	08-6231

VA





EQUIP TAG	MANUFACTURER & MODEL	FLUID
HX-1	ARMSTRONG DFS90DW80BS OR EQUAL	WATER
NOTES:		
1. M	ANUFACTURER IS FOR BASIS OF DESIGN	ONLY. OTHER

DY	VA NUMBER	DESCRIPTION	MANUFACTURER & MODEL OR EQUAL	TYPE	WASTE	VENT	HOT WATER	COLD WATER	N
EEW-1	P-708	EMERGENCY EYE WASH	SPEAKMAN SE-582 PROVIDE WITH LEONARD TA-350-LF MIXING VALVE AND 1/4 TURN STOPS	WALL MOUNT	-	-	1/2"	1/2"	
HB-1	P-802	HOSE BIBB	WOODFORD MODEL 122	WALL MOUNT	-	-	3/4"	3/4"	
LAV-1	P-420	LAVATORY	KOHLER K-2202-1 PROVIDE WITH CHICAGO FAUCETS 116.102.AB.1, WATTS LFMMV LEAD FREE THERMOSTATIC MIXING VALVE, TEMP GAUGE, ZURN Z8743 PO PLUG, ZURN Z8700-PC P-TRAP AND TRUEBRO 102 E-Z ADA INSULATION KIT	DROP IN	1-1/2"	1-1/2"	1/2"	1/2"	
LAV-2	P-418	LAVATORY	KOHLER K-2084 WITH WALL SUPPORT SYSTEM PROVIDE WITH CHICAGO FAUCETS 116.102.AB.1, WATTS LFMMV LEAD FREE THERMOSTATIC MIXING VALVE, TEMP GAUGE, ZURN Z8743 PO PLUG, ZURN Z8700-PC P-TRAP AND TRUEBRO 102 E-Z ADA INSULATION KIT	WALL HUNG	1-1/2"	1-1/2"	1/2"	1/2"	
S-1	P-528	SINGLE BOWL	KOHLER K-2202-1 PROVIDE WITH CHICAGO FAUCETS 116.102.AB.1, WATTS LFMMV LEAD FREE THERMOSTATIC MIXING VALVE, TEMP GAUGE, ZURN Z8743 PO PLUG, ZURN Z8700-PC P-TRAP AND TRUEBRO 102 E-Z ADA INSULATION KIT	DROP IN	1-1/2"	1-1/2"	1/2"	1/2"	
S-2	P-502	JANITOR SINK	FIAT TSB3013 PROVIDE UNIT SHALL COME COMPLETE WITH HOSE, HOSE BRACKET AND MOP HANGER. PROVIDE WITH WALL MOUNTED MANUAL FAUCET WITH INTEGRAL VACUUM BREAKER, PAIL HOOK, AND WALL SUPPORT ROD CHICAGO FAUCET MODEL 540-LD897SWXF317CP, WATTS LFMMV LEAD FREE THERMOSTATIC MIXING VALVE, AND TEMP GAUGE		1-1/2"	1-1/2"	3/4"	3/4"	
S-3	P-524	DUAL KITCHEN SINK	ELKAY LRAD332265PD PROVIDE WITH CHICAGO FAUCETS 895-317RGD2ABCP, WATTS LFMMV LEAD FREE THERMOSTATIC MIXING VALVE, TEMP GAUGE, ZURN Z8743 PO PLUG, ZURN Z8700-PC P-TRAP AND TRUEBRO 102 E-Z ADA INSULATION KIT	DROP IN	1-1/2"	1-1/2"	1/2"	1/2"	
WC-1	P-103	WATER CLOSET	AMERICAN STANDARD AFWALL 2257101.020 PROVIDE WITH SLOAN ECOS 111-1.28-HW, HARDWIRED FLUSH VALVE, BEMIS 1655SSCT OPEN FRONT SEAT LESS COVER, AND ZN1201-ND-3 FOR BACK-TO-BACK ZN1201-N_3 FOR SINGLE WALL CARRIER	WALL MOUNT	4"	2"	-	1"	
WC-2	P-114	WATER CLOSET BARIATRIC	SLOAN G2 8113-1.28 BATTERY FLUSH VALVE	WALL AND FLOOR MOUNT	4"	2"	-	1"	
WD-1	P-608	DRINKING WATER DISPENSER	ELKAY EZWS-EDFP217K	WALL MOUNT	1-1/2"	1-1/2"	-	1/2"	
WH-1	P-801	WALL HYDRANT	WOODFORD MODEL 67	WALL MOUNT	-	-	-	3/4"	

## ARCHITECT



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ROFESSION REG. NO

13179 R KOSCAK

11/16/202

	Drawing Title PLUMBING SCHEDULES	Project Title EXPAND BL PRIMARY C			Project Number 437-315 Building Number <b>1</b>	Co
	Approved: Project Director FARGO VAHCS	Location 2101 EL FARGO, Date 11/16/2021	M STREET ND 58102 Checked MK	Drawing Number P-601 Dwg. 90 of 128	Ma	
6	7		8			9

### ZURN Z8700-PC P-TRAP AND TRUEBRO 102 E-Z ADA INSULATION KIT KOHLER K-2084 WITH WALL SUPPORT SYSTEM PROVIDE WITH 1-1/2" 1-1/2" 1/2" 1/2" 1,2,3,5 WALL HUNG CHICAGO FAUCETS 116.102.AB.1, WATTS LFMMV LEAD FREE THERMOSTATIC MIXING VALVE, TEMP GAUGE, ZURN Z8743 PO PLUG, ZURN Z8700-PC P-TRAP AND TRUEBRO 102 E-Z ADA INSULATION KIT 1/2" 1/2" KOHLER K-2202-1 PROVIDE WITH DROP IN 1-1/2" 1-1/2" 1,2,3,5 CHICAGO FAUCETS 116.102.AB.1, WATTS LFMMV LEAD FREE THERMOSTATIC MIXING VALVE, TEMP GAUGE, ZURN Z8743 PO PLUG, ZURN Z8700-PC P-TRAP AND TRUEBRO 102 E-Z ADA INSULATION KIT 3/4" 3/4" 1-1/2" 1,2,3,5 FIAT TSB3013 PROVIDE UNIT SHALL COME COMPLETE WITH HOSE, HOSE BRACKET AND DROP IN 1-1/2" MOP HANGER. PROVIDE WITH WALL MOUNTED MANUAL FAUCET WITH INTEGRAL VACUUM BREAKER, PAIL HOOK, AND WALL SUPPORT ROD CHICAGO FAUCET MODEL 540-LD897SWXF317CP, WATTS LFMMV LEAD FREE THERMOSTATIC MIXING VALVE, AND TEMP GAUGE DROP IN ELKAY LRAD332265PD PROVIDE WITH 1-1/2" 1-1/2" 1/2" 1/2" 1,2,3,5 CHICAGO FAUCETS 895-317RGD2ABCP, WATTS LFMMV LEAD FREE THERMOSTATIC MIXING VALVE, TEMP GAUGE, ZURN Z8743 PO PLUG, ZURN Z8700-PC P-TRAP AND TRUEBRO 102 E-Z ADA INSULATION KIT WALL MOUNT 4" 2" AMERICAN STANDARD AFWALL 2257101.020 PROVIDE WITH -1" 1,2,3,4 SLOAN ECOS 111-1.28-HW, HARDWIRED FLUSH VALVE, BEMIS 1655SSCT OPEN FRONT SEAT LESS COVER, AND ZN1201-ND-3 FOR BACK-TO-BACK ZN1201-N\_3 FOR SINGLE WALL CARRIER AMERICAN STANDARD HURON 3312001.020 PROVIDE WITH 1,2,3,4 WALL AND 4" 1" -SLOAN G2 8113-1.28 BATTERY FLUSH VALVE FLOOR AMERICAN STANDARD 5901.100 HEAVY DUTY OPEN FRONT LESS COVER, AND MOUNT ZN1201-N-XB WALL CARRIER 1,2,3 ELKAY EZWS-EDFP217K 1-1/2" 1-1/2" 1/2" WALL MOUNT -3/4" 1,2,3 WOODFORD MODEL 67 WALL MOUNT L FIXTURES ON PROJECT UNLESS OTHERWISE NOTED. ITIONAL INFORMATION.

JFACTURER IS FOR BASIS OF DESIGN ONLY. OTHER MANUFACTURER ARE ALLOWED

58

TAG	MANUFACTURER & MODEL	TYPE	SYSTEM	FLUID	GPM	PUMP FT.HEAD	TEMP °F	VOLT/ Ph/ A	NOTES
CP-1	GRUNDFOS UPS 1535 SFC OR EQUAL	INLINE	DHW	WATER	1	2	140	110/ 1/ 0.95	1

GPM (°F) (°F) (TUBES) (LBS/HR)

140

SIZE LISTED ON SCHEDULES APPLY TO ALL FIXTURES ON PROJECT UNLESS OTHERWISE NOTED.

SEE PLUMBING SPECIFICATIONS FOR ADDITIONAL INFORMATION.

HEAT EXCHANGER SCHEDULE

45

	PLUMBING SPECIALTY SCHEDULE											
MARK	SPEC REF	DESCRIPTION	MANUFACTURER & MODEL OR EQUAL	TYPE	WASTE	VENT	HOT WATER	COLD WATER	NO			
DS-1		DOWNSPOUT LAMBS TONGUE	ZURN Z-199	ROUND	-	-	-	-	1,			
FD-1	FD-C	FLOOR DRAIN	ZURN Z415BZ OR EQUAL	ROUND	2"	2"	-	-	1,			
FD-2	FD-Z	TRENCH DRAIN	ZURN ZS880-1	LINEAR	2"	2"	-	-	1,			
FCO-1		FLOOR CLEANOUT	ZURN ZN1400-S OR EQUAL	ROUND	2"	-	-	-	1,			
FS-1	FS-S	FLOOR SINK	ZURN Z1900	12"X12"	3"	2"	-	-	1,			
HR-1		HOSE REEL SYSTEM	T&S B-2339-02	CLOSED	-	-	1/2"	1/2"	1,			

PLUMBING SPECIALTY SCHEDULE											
	SPEC		MANUFACTURER &				HOT	COLD			
MARK	REF	DESCRIPTION	MODEL OR EQUAL	TYPE	WASTE	VENT	WATER	WATER	١		
DS-1		DOWNSPOUT LAMBS	ZURN Z-199	ROUND	-	-	-	-			

WATER MONITORING SYSTEM

Cooler for hot water

THERMOWELL

PART# DESCRIPTION

GSA

PHIGENICS PWA VA MONITOR AND WME-1899 CALCIUM HARDNESS ANALYZER

MANUFACTURER &

MODEL OR EQUAL

DISINFECTION SYSTEM

MARK

WMS-1

FIXTURE	QUANTITY	WSFU	HOT WSFU	DFU	WSFU	WSFU	DFL
Eye Wash	1	0.5	0.5	1	0.5	0.5	1
Drinking Fountain	1	0.25	0	0.5	0.25	0	0.5
Floor Drain	6	0	0	2	0	0	12
Floor Sink	4	0	0	4	0	0	16
Jan sink, Hose Bibb	4	2.25	2.25	2	9	9	8
Kitchen Sink	3	3	3	2	9	9	6
Lavatory	5	1.5	1.5	1	8	8	5
Sink	15	2.25	2.25	2	34	34	30
Shower	2	3	3	3	6	6	6
Wall hydrant	3	2.25	0	0	6.75	0	0
Water Closet FV	5	10	0	6	50	0	30
			Total WSFU/ DFU	0	124	66	115
			Total GPM	0	77	58	
			Peak GPM	0	135		

WME-1175 PWA Advanced Monitoring System 2.0 with second CLX and Sample

PRESSURE MODULATING MAX. STEAM

2755

(PSIG)

15

TEMP INTEMP OUTDROPCONTROL VPRESSURE

4.35

WME-2910 WATER TEMPERATURE SENSOR WITH 4-20mA AND

## PLUMBING CALCULATIONS

COLD

VALUES PER FIXTURE

TOTAL

QUANTITY

L X W H NOTES

1,2,3,5

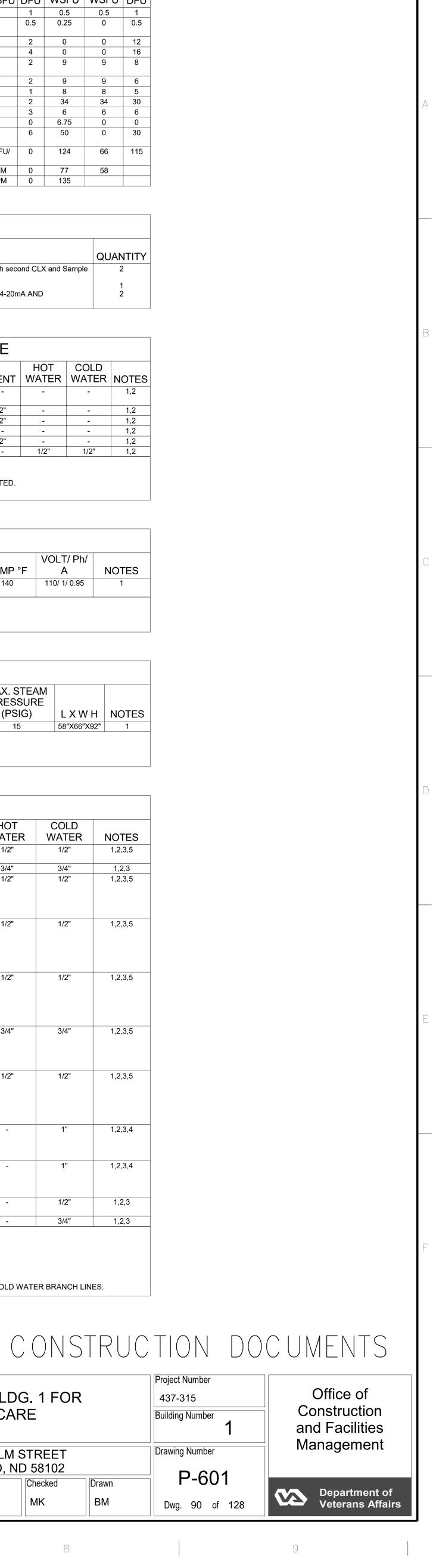
1,2,3

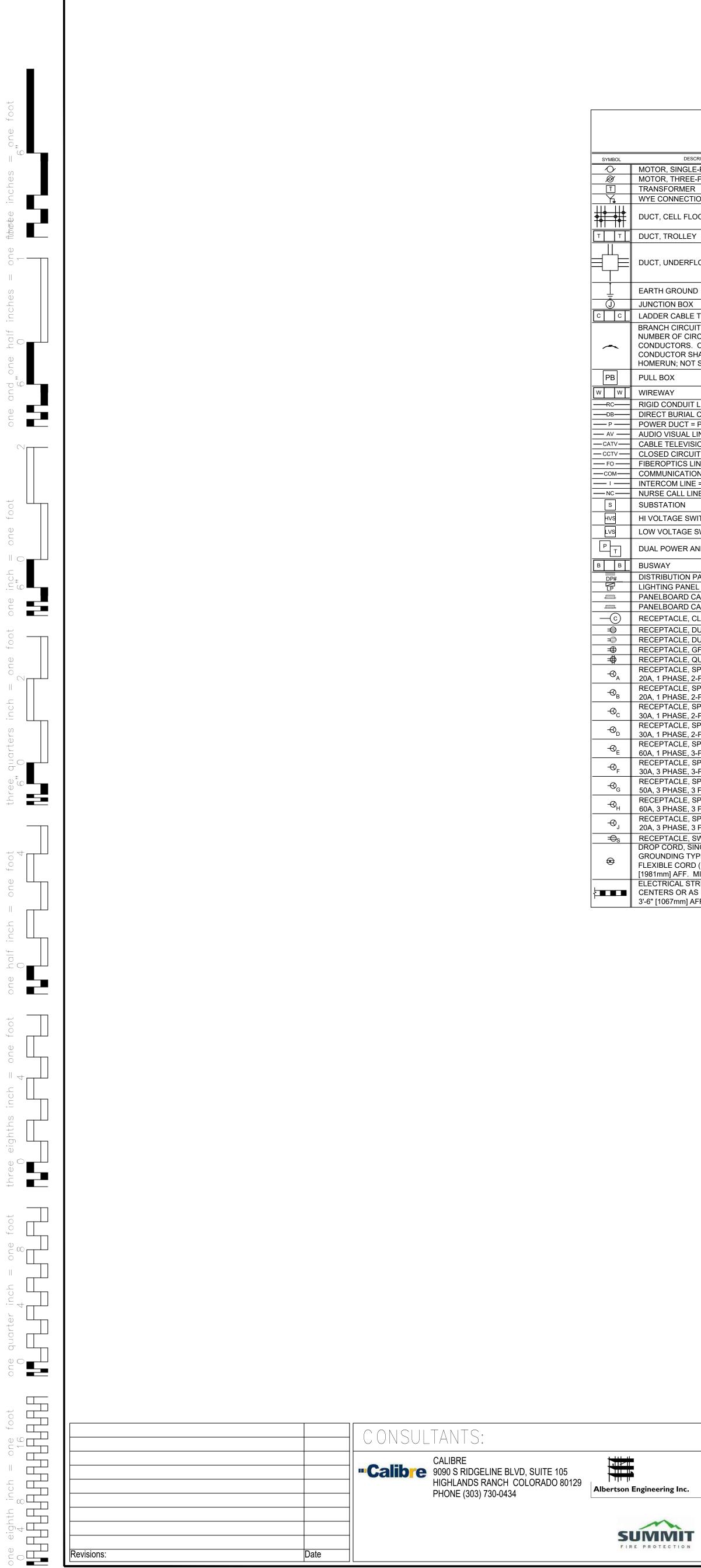
1,2,3,5

58"X66"X92" 1

WATER WATER NOTES

COLD HOT





	E	LECTRICAL LEGEND (FLOORPLAN)		
	SYMBOL	DESCRIPTION	SYMBOL	
SINGLE-PHASE THREE-PHASE	R 50	INSTANTANEOUS OVERCURRENT RELAY	Ø	NURSE CALL STATION. D = CORRIDOR DOME LIGHT MTD 6" ABOVE DOOR
DRMER	R <sub>51</sub>	AC-TIME OVERCURRENT RELAY	$^{ m O}_{ m D}$	I = AUXILIARY INTERSECTIONAL DOME LIGHT
NECTION	R 67	AC-DIRECTIONAL OVERCURRENT RELAY		TELECOMMUNICATIONS TERMINAL CABINET
	R 86	LOCKING OUT RELAY	TTB	TELECOMMUNCATIONS BACKBOARD (WALL MTD)
ELL FLOOR HEADER	Ľ	DISCONNECT SWITCH, FUSED	EH	ELECTRIC POWER HINGE
		DISCONNECT SWITCH, UNFUSED	DC	DOOR CONTACT
COLLEY	Image: Second se	STARTER, COMBINATION WITH DISCONNECT SWITCH	MID	MOTION INTRUSION DETECTOR
		STARTER OR MOTOR CONTROLLER		
NDERFLOOR JUNCTION BOX	V <sub>FD</sub> ©тс	VARIABLE FREQUENCY DRIVE	SSTV	SECURITY SURVEILLANCE TELEVISION
			Ċ	CAMERA
ROUND	$\langle R \rangle$	RECTIFIER, CATHODIC PROTECTION SANITARY	Δ	
			X	
	<u> </u>			360 CAMERA
	$\otimes -$	CONDUIT TERMINATED 6" [152mm] AFF IN STANDARD BOX FOR EXTENSION TO EQUIPMENT AS DIRECTED.		CARD ACCESS READER; LETTER INDICATES AS
CIRCUIT HOMERUN. LINES INDICATE OF CIRCUITS, NEUTRAL, AND SWITCH LEG		CONDUIT TERMINATED W/COUPLING		FOLLOWS:
TORS. ONE SEPARATE GREEN GROUNDING	0-	(FLUSH W/FINISHED FLOOR) FOR		M=MOUNT
TOR SHALL BE PROVIDED FOR EACH		EXTENSION TO EQUIPMENT AS DIRECTED.		C-CEILING D-DESK F-FLUSH H-HIDDEN
N; NOT SHOWN	\$	SWITCH, SPST		M-MULLION P-PEDESTAL R-RACK S-SURFACE W-WALL
x	\$2 \$2	SWITCH, DPST	μ <sub>T</sub>	T=TECHNOLOGY/TYPE
Y	\$3 \$3D	SWITCH, THREE WAY SWITCH, THREE WAY DIMMER		B-BARCODE M-MAG STRIP
DNDUIT LINE = RC	\$3D \$3OS	SWITCH, THREE WAY DIMINIER SWITCH, THREE WAY OCCUPANCY SENSOR		F-ELEVATOR FLOOR CALL P-PROXIMITY H-ELEVATOR HALL CALL S-SMART CARD
BURIAL CABLE = DB	\$300 \$4	SWITCH, FOUR WAY		T-TOKEN
DUCT = P	\$D	SWITCH, DIMMER		ELECTRONIC LOCK; LETTER INDICATES AS
SUAL LINE = AV	\$door	SWITCH, DOOR JAMB		FOLLOWS:
ELEVISION LINE = CATV	\$40s	SWITCH, FOUR WAY OCCUPANCY SENSOR		
CIRCUIT TELEVISION LINE = CCTV	\$г \$к	SWITCH, FUSED SWITCH, KEY OPERATED	M	C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION P-PEDESTAL R-RACK S-SURFACE
TICS LINE = FO IICATIONS LINE = COM	\$ĸ 	SWITCH, KEY OPERATED SWITCH, LOCK	ш Т	W-MOLLION P-PEDESTAL R-RACK S-SURFACE W-WALL
MCATIONS LINE = COM	\$∟м	SWITCH, LOW VOLTAGE MASTER		T=TECHNOLOGY/TYPE
ALL LINE = NC	\$м	SWITCH, MANUAL MOTOR STARTING		D-DEADBOLT H-HYBRID L-LATCH SET
ΠΟΝ	\$мс	SWITCH, MOMENTARY CONTACT		
AGE SWITCH ON CONCRETE PAD	\$мр	SWITCH, MOTOR SNAP WITH		INTERCOM; LETTER INDICATES AS FOLLOWS: M=MOUNT
	\$os	PILOT LIGHT (THERMAL TYPE) SWITCH, OCCUPANCY SENSOR	м	C-CEILING D-DESK F-FLUSH H-HIDDEN
TAGE SWITCH ON CONCRETE PAD	\$0SD	SWITCH, OCCUPANCY SENSOR SWITCH, OCCUPANCY SENSOR DIMMER	₽	M-MULLION P-PEDESTAL R-RACK S-SURFACE
WER AND TELECOMMUNICATIONS MANHOLE	\$P	SWITCH, WITH PILOT LIGHT	I	W-WALL T=TECHNOLOGY/TYPE
	\$рв	SWITCH, PUSH BUTTON		M-MASTER S-SUBSTATION
JTION PANEL	\$рн	SWITCH, PHOTOCELL	×	DURESS/PANIC ALARM PUSH BUTTON
G PANEL	\$RC		DH	ELECTROMAGNETIC TYPE DOOR HOLDER OUTLET
DARD CABINET, FLUSH MOUNTED	\$wp \$x	SWITCH, WEATHER PROOF SWITCH, EXPLOSION PROOF		
DARD CABINET, SURFACE MOUNTED	©	TELECOMMUNICATIONS MANHOLE		
ACLE, CLOCK HANGER	$\overline{\square}$	COMMUNICATIONS FLOOR RECEPTACLE		
ACLE, DUPLEX	$\nabla$	COMMUNICATIONS WALL RECEPTACLE		
ACLE, DUPLEX ON EMERGENCY POWER	$\square$	COMMUNICATIONS CEILING RECEPTACLE		
		TELEVISION FLOOR RECEPTACLE C =CAMERA (CCTV SYSTEM)		
ACLE, QUADRAPLEX ACLE, SPECIAL PURPOSE 120V,	$\mathbf{V}^{M}$	M =MONITOR (CATV SYSTEM)		
IASE, 2-POLE, 3W, NEMA 5-20R.	نگ	AV=AUDIO VISUAL (CONFERENCE ROOM		
ACLE, SPECIAL PURPOSE 208V,		CONNECTION RECEPTACLES)		
IASE, 2-POLE, 3W, NEMA 6-20R.				
ACLE, SPECIAL PURPOSE 120V, IASE, 2-POLE, 3W, NEMA 5-30R.	$\Psi^{M}$	C =CAMERA (CCTV SYSTEM) M =MONITOR (CATV SYSTEM).		
ACLE, SPECIAL PURPOSE 208V,	-	AV=AUDIO VISUAL (CONFERENCE ROOM		
ASE, 2-POLE, 3W, NEMA 6-30R.		CONNECTION RECEPTACLES)		
ACLE, SPECIAL PURPOSE 208V,				
IASE, 3-POLE, 4W, NEMA 14-60R. ACLE, SPECIAL PURPOSE 208V,	$\mathbf{V}^{M}$	C =CAMERA (CCTV SYSTEM) M =MONITOR (CATV SYSTEM).		
ACLE, SPECIAL PURPOSE 208V, IASE, 3-POLE 4W, NEMA 15-30R.	¥	AV=AUDIO VISUAL (CONFERENCE ROOM		
ACLE, SPECIAL PURPOSE 208V,		CONNECTION RECEPTACLES)		
IASE, 3 POLE, 4W, NEMA 15-50R.	S	PAGING SPEAKER, CEILING MOUNTED		
ACLE, SPECIAL PURPOSE 208V,	<u></u>	PAGING SPEAKER, WALL MOUNTED		
ACLE SPECIAL PURPOSE 208V	NCS	NURSE'S CALL MASTER STATION		
ACLE, SPECIAL PURPOSE 208V, IASE, 3 POLE, 4W, NEMA 15-20R.	NCT	NURSE CALL TERMINAL CABINET. NURSE CALL STATION.		
ACLE, SWITCHED DUPLEX		D = DUTY STATION. MTD 5' AFF		
RD, SINGLE CONVENIENCE OUTLET, 3-WIRE,		E = MTD 6' AFF FOR SHOWER LOCATION		
ING TYPE, 20A, W/#12 CONDUCTORS IN		MTD 4'-6" AFF FOR TUB LOCATION		
E CORD (CENTER LINE OF OUTLET: 6'-6" AFF. MINIMUM).	N <sub>D</sub>	MTD 3' AFF FOR TOILET LOCATION P = PSYCHIATRIC CORRIDOR STATION WITH KEY		
CAL STRIP MOLD (OUTLETS ON 2'-0" [610mm]		SWITCH		
S OR AS DESIGNATED ON DRAWINGS), MTD		S = AUDIO VISUAL STAFF STATION MTD 5' AFF		
7mm] AFF OR AS INDICATED.		U = UTILITY CALL STATION, MTD 5' AFF		

## ARCHITECT



### ELECTRICAL LEGEND

(DETAILS)	
DESCRIPTION	1PH
DELTA CONNECTION	1P
MOTOR, SINGLE-PHASE	2/C 3/C
MOTOR, THREE-PHASE TRANSFORMER	3PH 4/C 4W
	4VV AAP
WYE CONNECTION EARTH GROUND	AC
JUNCTION BOX	ACC
PULL BOX	ADO AFC
PRESSURE SWITCH-CLOSE ON INCREASE	AFF AFG
PRESSURE SWITCH-OPEN ON INCREASE	AH AHJ AIC
SWITCH, MULTIPOSITION	AMP ASC AT ATS
SWITCH, NORMALLY CLOSED FLOAT	AUTC AV
SWITCH, NORMALLY CLOSED FOOT OPERATED	BAS BFF
SWITCH, NORMALLY CLOSED LIMIT	BLDG BPIP
SWITCH, NORMALLY CLOSED TEMPERATURE ACTIVATED	BRKF
SWITCH, NORMALLY CLOSED TIME DELAY	С
SWITCH, NORMALLY OPEN FLOAT	CAB CALC CAP
SWITCH, NORMALLY OPEN LIMIT	CAT CATV
SWITCH, NORMALLY OPEN TEMPERATURE ACTIVATED	
SWITCH, NORMALLY OPEN TIME DELAY	cd CD
SWITCH, SINGLE BREAK NORMALLY CLOSED RELAY CONTACT	CF CF/CI
NORMALLY OPEN RELAY CONTACT	CF/O
MOLDED CASE CIRCUIT BREAKER	CHW CHW
HIGH-VOLTAGE OIL CIRCUIT BREAKER	CKT CKT I
HIGH-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER	CLF CLG
SWITCH AND FUSE UNIT	CMU COA>
FUSED DRAWOUT POTENTIAL TRANSFORMER	COM
INSTANTANEOUS OVERCURRENT RELAY AC-TIME OVERCURRENT RELAY	CONT CONT
AC-DIRECTIONAL OVERCURRENT RELAY	COOR
LOCKING OUT RELAY	CRI
DISCONNECT SWITCH, FUSED	CT CTV
DISCONNECT SWITCH, UNFUSED	CU CU F
	CUR
STARTER, COMBINATION WITH DISCONNECT SWITCH STARTER OR MOTOR CONTROLLER	DAS
TIME CLOCK	DB DC
GENERATOR, POWER	DCP DEG
BATTERY	DEG
CAPACITOR	DEM0 DIAG
POTHEAD STRESS CONE	DISC
LIGHTNING ARRESTOR	DIST
RECTIFIER, CATHODIC PROTECTION SANITARY	DN DPDT
METER	DPST DRSV
AMMETER	DS DWG
VOLTMETER	EC
WATTMETER	EG EL
WATT-HOUR METER	

	ELE	CTRI	CAL ABBREVIATIO	ONS	
1PH	SINGLE-PHASE	ELEC	ELECTRIC OR ELECTRICAL	MW	MEGAWATT M
1P 2/C	SINGLE POLE TWO-CONDUCTOR	ELEV EMCP	ELEVATOR EMERGENCY MONITORING CONTROL	NA	NOT APPLICA
3/C	THREE-CONDUCTOR	Linoi	PANEL	NEC	NATIONAL EL
3PH	THREE-PHASE	EMER	EMERGENCY	NEMA	NATIONAL EL
4/C 4W	FOUR-CONDUCTOR FOUR-WIRE	EMI EMT	ELECTROMAGNETIC INTERFERENCE ELECTRICAL METALLIC TUBING	NEUT OR N	MANUFACTU
4 V V	FOOR-WIRE	ENCL	ENCLOSURE	NFPA	NATIONAL FIF
AAP	ALARM ANNUNCIATOR PANEL	EPO	EMERGENCY POWER OFF		ASSOCIATION
AC	ALTERNATING CURRENT OR ARMORED	EPRF ESMT	EXPLOSION PROOF EASEMENT	NIC NL	NOT IN CONT NIGHT LIGHT
ACC	ACCESSIBLE	EWC	ELECTRIC WATER COOLER	NO	NORMALLY O
ADO	AUTOMATIC DOOR OPENER	EWH	ELECTRIC WATER HEATER	NS	NO SCALE
AFC	ABOVE FINISHED COUNTER, AUTOMATIC	EXIST	EXISTING	NTS	NOT TO SCAL
	FREQUENCY CONTROL, OR AVAILABLE FAULT CURRENT	FA	FIRE ALARM	oc	ON CENTER
AFF	ABOVE FINISHED FLOOR	FAAP	FIRE ALARM ANNUNCIATOR PANEL	OD	OUTSIDE DIA
AFG		FABL FABX	FIRE ALARM BELL FIRE ALARM BOX	OF OF/CI	OWNER FURM
AH AHJ	AMPERE HOUR AUTHORITY HAVING JURISDICTION	FABX	FIRE ALARM BOX	OF/CI	INSTALLED
AIC	AMPERE INTERRUPTING CAPACITY	FC	FOOTCANDLE	OF/OI	OWNER FURM
AMP		FIXT FLA		OL	OVERLOAD
ASC AT	AMPS SHORT CIRCUIT AMPERE TRIP	FLA FLEX	FULL LOAD AMPS FLEXIBLE METALLIC CONDUIT	OS	OCCUPANCY
ATS	AUTOMATIC TRANSFER SWITCH	FLT	FLOODLIGHT	Р	POLE
AUTO	AUTOMATIC	FLUOR	FLUORESCENT	PA	PUBLIC ADDR
AV	AUDIO VISUAL	FLUOR FIX FOUTT	FLUORESCENT FIXTURE TELEPHONE FLOOR OUTLET	PB	PANELBOARE PUSHBUTTON
BAS	BUILDING AUTOMATION SYSTEM	FP	FIRE PROTECTION	PBPU	PREFABRICA
BFF	BELOW FINISH FLOOR	FT	FEET OR FOOT	PCB	POLYCHLORI
BLDG BPIP	BUILDING BOILER PLANT INSTRUMENTATION PANEL	FU SW FVNR	FUSED SWITCH FULL VOLTAGE NON-REVERSING	PEC PED	PHOTOELECT PEDESTAL
BRKR	BREAKER	FVR	FULL VOLTAGE REVERSING	PEND	PENDANT
BYP	BY PASS			PF	POWER FACT
С	CONDUIT	G OR GND GEN	GROUND GENERATOR	PH PNL	PHASE PANEL
CAB	CABINET	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	POD	POWER OPER
CALC	CALCULATE	GTB	GROUND TERMINAL BOX	PT	POTENTIAL T
CAP CAT	CAPACITY CATALOG	HID	HIGH INTENSITY DISCHARGE	PTRV PVC	POWER TYPE POLYVINYL C
CATV	COMMUNITY ANTENNA TELEVISION	HOA	HAND-OFF-AUTOMATIC	PWR	POULIVINITE C
CCR	CONTROL CONTACTOR	HP	HORSEPOWER		
CCTV cd	CLOSED CIRCUIT TELEVISION CANDELA	HT HZ	HEIGHT HERTZ	RCP REC	REFLECTED ( RECESSED
CD	CONSTRUCTION DOCUMENTS	ПΖ	HERIZ	RECPT	RECEPTACLE
CF	CONTRACTOR FURNISHED	IESNA	ILLUMINATION ENGINEERING SOCIETY OF	RGS	RIGID GALVA
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR	IMC	NORTH AMERICA	RM RMS	ROOM ROOT MEAN S
CF/OI	CONTRACTOR FURNISHED/OWNER	INCAND	INTERMEDIATE METAL CONDUIT INCANDESCENT	REQD	REQUIRED
	INSTALLED	IR	INFRARED		
CHW	CHILLED WATER	IWH	INSTANTANEOUS WATER HEATER	SCC	SHORT CIRCU
CHWP CKT	CHILLED WATER PUMP CIRCUIT	J-BOX	JUNCTION BOX	SES SD	SERVICE ENT SMOKE DETE
CKT BRKR	CIRCUIT BREAKER			SF	SQUARE FOO
CLF	CURRENT LIMITING FUSE	kV kVA	KILOVOLT KILOVOLT AMPERE	SHT	SHEET
CLG CMU	CEILING CONCRETE MASONRY UNIT	kVA kVAH		SI SPEC	INTERNATION SPECIFICATION
COAX	COAX CABLE	kVAR	KILOVOLT AMPERE REACTIVE	SPST	SINGLE POLE
COMM	COMMUNICATION	kW	KILOWATT	SPDT	SINGLE POLE
CONC CONT	CONCRETE CONTINUE	kWH kWHM	KILOWATT HOUR KILOWATT HOUR METER	SURF SW	SURFACE SWITCH
CONTR	CONTRACTOR			SWBD	SWITCHBOAF
COORD	COORDINATE	LED		SWGR	SWITCHGEAF
CPT CRI	CONTROL POWER TRANSFORMER COLOR RENDERING INDEX	LF LM	LINEAR FEET (FOOT) LUMEN	тс	TIME CLOCK
СТ	CURRENT TRANSFORMER	LP	LIGHT POLE	TEL	TELEPHONE
CTV	CABLE TELEVISION	LPS	LOW PRESSURE SODIUM	TP	TWISTED PAI
CU CU FT	COPPER CUBIC FEET	LRA LTCP	LOCKED ROTOR AMPS LOCAL TEMPERATURE CONTROL PANEL	TPS TTB	TWISTED PAI
CUR	CURRENT	LT	LIGHT	TV	TELEVISION
		LTG	LIGHTING	TYP	TYPICAL
DAS DB	DISTRIBUTED ANTENNA SYSTEM DECIBEL	LTG PNL LTNG	LIGHTING PANEL LIGHTNING	UFD	UNDERFLOOF
DB DC	DIRECT CURRENT	LV	LOW VOLTAGE	UGND	UNDERFLOOF
DCP	DIMMER CONTROL PANEL			UL	UNDERWRITE
DEG C DEG F	DEGREES CELSIUS DEGREES FAHRENHEIT	MATV MAX	MASTER ANTENNA TELEVISION SYSTEM MAXIMUM	UON UPS	UNLESS OTHI
DEG F DEMO	DEGREES FARRENHEIT DEMOLITION	MC	METAL-CLAD	UTIL	UTILITY
DIAG	DIAGRAM	MCA			
DISC DISTR	DISCONNECT DISTRIBUTION	MCB MCC	MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER	V VA	VOLT VOLT AMPER
DISTR DISTR PNL		MDP	MAIN DISTRIBUTION PANEL	VA VAR	VOLT AMPER
DMR SW	DIMMER SWITCH	MECH	MECHANICAL	VFD	VARIABLE FR
		MG MH	MOTOR GENERATOR MANHOLE	VOLT	
DPDT DPST	DOUBLE POLE, DOUBLE THROW DOUBLE POLE, SINGLE THROW	MIN	MANHOLE MINIMUM	VS	VACANCY SE
DRSW	DOOR SWITCH	MOCP	MAXIMUM OVERCURRENT PROTECTION	W	WATT
DS	DISCONNECT SWITCH	MLO MT	MAIN LUGS ONLY	WH	
DWG	DRAWING	MTD	MOUNT MOUNTED	WP	WEATHERPR
EC	EMPTY CONDUIT	MTG	MOUNTING	XFER	TRANSFER
EG	EQUIPMENT GROUND	MTS MV/A	MANUAL TRANSFER SWITCH MEGAVOLT-AMPERE	XFMR	TRANSFORM
EL	ELEVATION	MVA			

CALIBRE 9090 S RIDGELINE BLVD, SUITE 105 HIGHLANDS RANCH COLORADO 80129		ALBERTSON ENGINEERING, INC. 315 NORTH MAIN AVENUE, SUITE 200 SIOUX FALLS, SOUTH DAKOTA 57104	ARCHITECT FOURFRONT DESIGN, INC. 517, 7TH STREET		ELECTRICAL LEGENDS AND ABBREVIATIONS		Project Title EXPAND BLDG. 1 FOR PRIMARY CARE			Project Number 437-315 Building Number		
PHONE (303) 730-0434	Albertson Engineering Inc.SUGATALLO, OCOTTADATO TOTAPH: (605) 274-0880PH: (605) 274-0880SUMMIT FIRE CONSULTING 575 MINNEHAHA AVE WEST ST. PAUL, MINNESOTA 55103 (612) 387-7050	DAWES       FOURFRONT         DESIGN       IN C.		Approved: Project Director FARGO VAHCS		Location 2101 ELM S FARGO, ND Date 11/16/2021	58102	Drawn JS	Drawing Number E-000 Dwg. 91 of			
2		3		4	E		6	7		8		

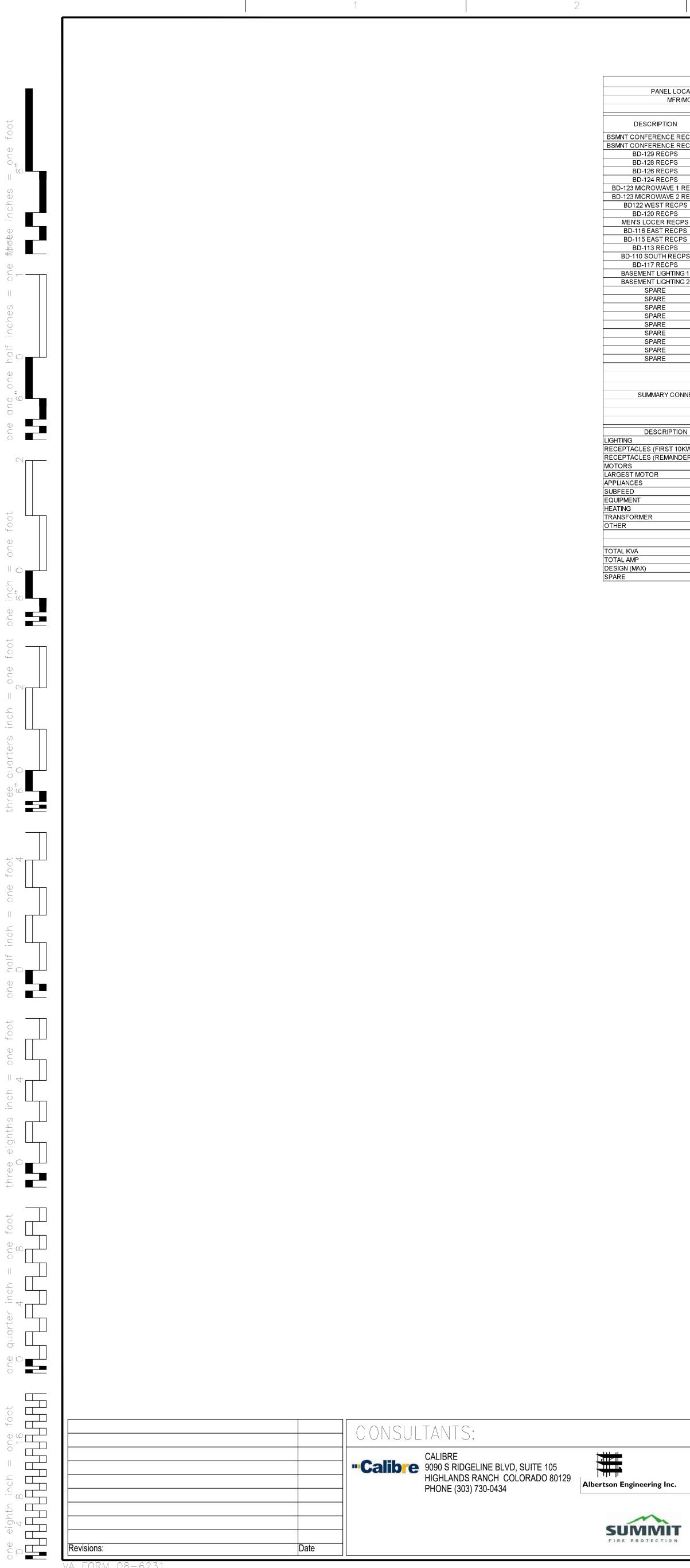
8

	MEGAWATT MICROWAVE
N	NOT APPLICABLE NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT NIGHT LIGHT NORMALLY OPEN NO SCALE NOT TO SCALE
	ON CENTER OUTSIDE DIAMETER OWNER FURNISHED OWNER FURNISHED/CONTRACTOR INSTALLED OWNER FURNISHED/OWNER INSTALLED OVERLOAD OCCUPANCY SENSOR
	POLE PUBLIC ADDRESS PANELBOARD, PULL BOX, OR PUSHBUTTON PREFABRICATED BEDSIDE PATIENT UNIT POLYCHLORINATED BIPHENYL PHOTOELECTRIC CELL PEDESTAL PENDANT POWER FACTOR PHASE PANEL POWER OPERATED DAMPER POTENTIAL TRANSFORMER POWER TYPE ROOF VENTILATION POLYVINYL CHLORIDE (PLASTIC) POWER
	REFLECTED CEILING PLAN RECESSED RECEPTACLE RIGID GALVANIZED STEEL ROOM ROOT MEAN SQUARE REQUIRED
	SHORT CIRCUIT CAPACITY SERVICE ENTRANCE SECTION SMOKE DETECTOR SQUARE FOOT (FEET) SHEET INTERNATIONAL SYSTEM OF UNITS SPECIFICATION SINGLE POLE, SINGLE THROW SINGLE POLE, DOUBLE THROW SURFACE SWITCH SWITCHBOARD SWITCHGEAR
	TIME CLOCK TELEPHONE TWISTED PAIR TWISTED PAIR SHIELDED TELEPHONE TERMINAL BOARD TELEVISION TYPICAL
	UNDERFLOOR DUCT UNDERGROUND UNDERWRITERS LABORATORY UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY UTILITY
	VOLT VOLT AMPERE VOLT AMPERE REACTIVE VARIABLE FREQUENCY DRIVE VOLTAGE VACANCY SENSOR
	WATT WATER HEATER WEATHERPROOF

WEATHERPROOF

TRANSFER TRANSFORMER

CONSTRUCTION DOCUMENTS Office of Construction and Facilities Management 000 Department of Veterans Affairs 1 of 128



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											PAN	EL"10	S5"											
PANEL LOCATION:	ELECT	RICAL	BD-13	60A				L	-L VOLT:	208	Р	HASE:	3		MAIN:		N					BREA	AKER	Y
MFR/MODEL:	SQUAF	<u>RE D N</u>	QOR	APPROV	ED EQUAL			Ŀ	-N VOLT:	120	N	(IRES:	4	WI	RE SIZE:	(8) 3/0 TH	HN + (2) 1/0	000				FED	FROM:	SWBD-1
AIC:	10,000							RAT	ED AMP:	200	NE	URAL	100%	CON	ND. SIZE:	(2) 3" EM	Т					N	IOUNT:	SURFACE
	BF	REAKE	R	B	RANCH WIR	E				T/S/O/M				T/S/O/M				E	BRANCH WIRE		В	REAKE	R	
	TYPE	POLE	AMP	SIZE	INSULATION	GND	L-LOAD	R-LOAD	O-LOAD	A/E/H		PHASE	-	/A/E/H	O-LOAD	R-LOAD	L-LOAD S		INSULATION		AMP	POLE	TYPE	DESCRIPTION
ERENCE RECPS 1		1	20	(2)#12	THHN	#12		720			1	Α	2			1080	(2)	)#12	THHN	#12	20	1		ELEC, TOILET, OFFICE RECPS
ERENCE RECPS 2		1	20	(2)#12	THHN	#12		720			3	В	4			720	(2)	)#12	THHN	#12	20	1		WET ROOM NORTH RECPS
29 RECPS		1	20	(2)#12	THHN	#12		900			5	С	6			900	(2)	)#12	THHN	#12	20	1		WET ROOM SOUTH RECPS
28 RECPS		1	20	(2)#12	THHN	#12		900			7	А	8			900	(2)	)#12	THHN	#12	20	1		BD-127 RECPS
26 RECPS		1	20	(2)#12	THHN	#12		1440			9	В	10			1080	(2)	)#12	THHN	#12	20	1		BD-125 RECPS
24 RECPS		1	20	(2)#12	THHN	#12		1080			11	С	12	А	1800		(2)	)#12	THHN	#12	20	1		BASEMENT BD-123 FRIDGE
ROWAVE 1 RECP		1	20	(2)#12	THHN	#12			1100	А	13	А	14			720	(2)	)#12	THHN	#12	20	1		BD-123 RECPS
ROWAVE 2 RECP		1	20	(2)#12	THHN	#12			1100	А	15	В	16			1080	(2)	)#12	THHN	#12	20	1		BD-122 EAST RECPS
VEST RECPS		1	20	(2)#12	THHN	#12		1080			17	С	18			1080		)#12	THHN	#12	20	1		BD-122 EAST RECPS
20 RECPS		1	20	(2)#12	THHN	#12		900			19	Α	20			900		)#12	THHN	#12	20	1		WOMENS LOCK RECPS
OCER RECPS		1	20	(2)#12	THHN	#12		720			21	В	22			720	(2)	)#12	THHN	#12	20	1		BD-116 WEST RECPS
EAST RECPS		1	20	(2)#12	THHN	#12		900			23	С	24			720		)#12	THHN	#12	20	1		BD-115 WEST RECPS
EAST RECPS		1	20	(2)#12	THHN	#12		720			25	Α	26			900		)#12	THHN	#12	20	1		BD-114 RECPS
13 RECPS		1	20	(2)#12	THHN	#12		1080			27	В	28			1080		)#12	THHN	#12	20	1		BD-112 RECPS SOUTH
OUTH RECPS		1	20	(2)#12	THHN	#12		900			29	С	30			1080		)#12	THHN	#12	20	1		BD-112 RECPS NORTH
17 RECPS		1	20	(2)#12	THHN	#12		900			31	Α	32			540		)#12	THHN	#12	20	1		BD-110 NORTH RECPS
NT LIGHTING 1		1	20	(2)#12	THHN	#12	1587				33	В	34			540	(2)	)#12	THHN	#12	20	1		CORRIDOR CO03 RECPS
NT LIGHTING 2		1	20	(2)#12	THHN	#12	1510				35	С	36								20	1		SPARE
PARE		1	20								37	A	38	S	13700									
SPARE		1	20								39	В	40	S	12600		(3	)2/0	THHN	#4	125	3		PANEL 11S5
SPARE		1	20								41	C	42	S	13648									
SPARE		1	20								43	<u>A</u>	44								20	1		SPARE
SPARE		1	20								45	B	46								20	1		SPARE
PARE		1	20								47	C	48								20	1		SPARE
SPARE		1	20								49	<u>A</u>	50								20	1		SPARE
SPARE		1	20								51	B	52								20	1		SPARE
SPARE		1	20						0		53	С	54	<b>b</b> 4							20	1		SPARE
									0	M				M	0									
									2200	A				Α	1800									
									0	S				S	39948									
MMARYCONNECTED	LOAD	S					3097	12960	0	E		LOAD		E	0	14040	0					SUMM	ARY CC	NNECTED LOADS
									0	H	(VOL1	-AMPE	RES)	<u>H</u>	0									
									0	T				T	0									
									0	0				0	0									
ESCRIPTION		CONM	I. KVA				D.F	DEM.	KVA	AMPERA	GE FE	d to f	PANEL	200	AMP								LEGEN	ID/KEY
		3					1.25	3.		TOTAL C				205.5	AMP	74.0							T=TRA	NSFORMER
S (FIRST 10KW)			).0				1.0	10		TOTAL D	EMAN	d Loai	D	161.9	AMP	58.3	KVA						S=SUB	FEED
S (REMAINDER)			7.0				0.5	8.		DESIGN (	· ,				AMP	72.1							O=OTH	
			.0				1.0	0.	-	SPARE L	OAD			38	AMP	13.7	KVA						M=MO1	
FOR			.0				1.25	0.																LIANCE
			.0				1.0	4.		CONNEC		OAD B	BALANC											JIPMENT
			9.9				0.8	32		PHASE A				199.8		23.98							H-HEA	
			.0				1.0	0.		PHASE B				203.9		24.467								CEPTACLES
_		0					1.0	0.		PHASE C	;			213.3	AMP	25.598	KVA						L=LIGH	
R		0					1.0	0.							~									=CONNECTED
		0	.0				1.0	0.		A TO B					%									
										BTOC					%								SPR=S	
		74.0	1/1/4					- E0 0				NOUL				NORO							SPC=S	PAGE
			KVA																G THE ONLY C MAY BE RUN T					
		205.5	AMP																CONDUCTO					
									,							5(B)(3)(a)			CONDUCTO					
								38.1	AMP	DENAIE	0 040		20101			νυγογ(α)							ST-SH	JNT TRIP

ALBERTSON ENGINEERING, INC. 315 NORTH MAIN AVENUE, SUITE 200 SIOUX FALLS, SOUTH DAKOTA 57104 PH: (605) 274-0880

SUMMIT FIRE CONSULTING 575 MINNEHAHA AVE WEST ST. PAUL, MINNESOTA 55103 (612) 387-7050



ARCHITECT



FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM

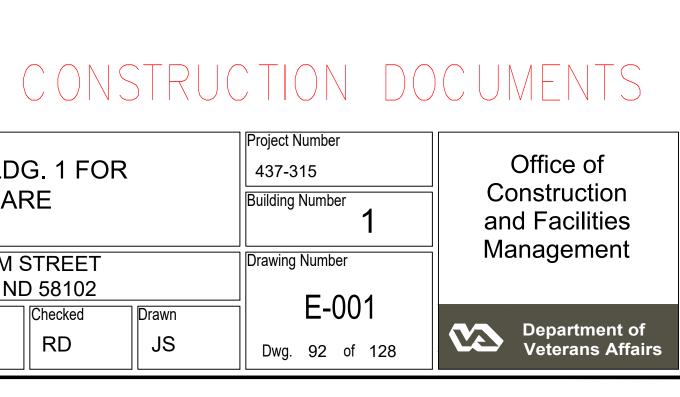
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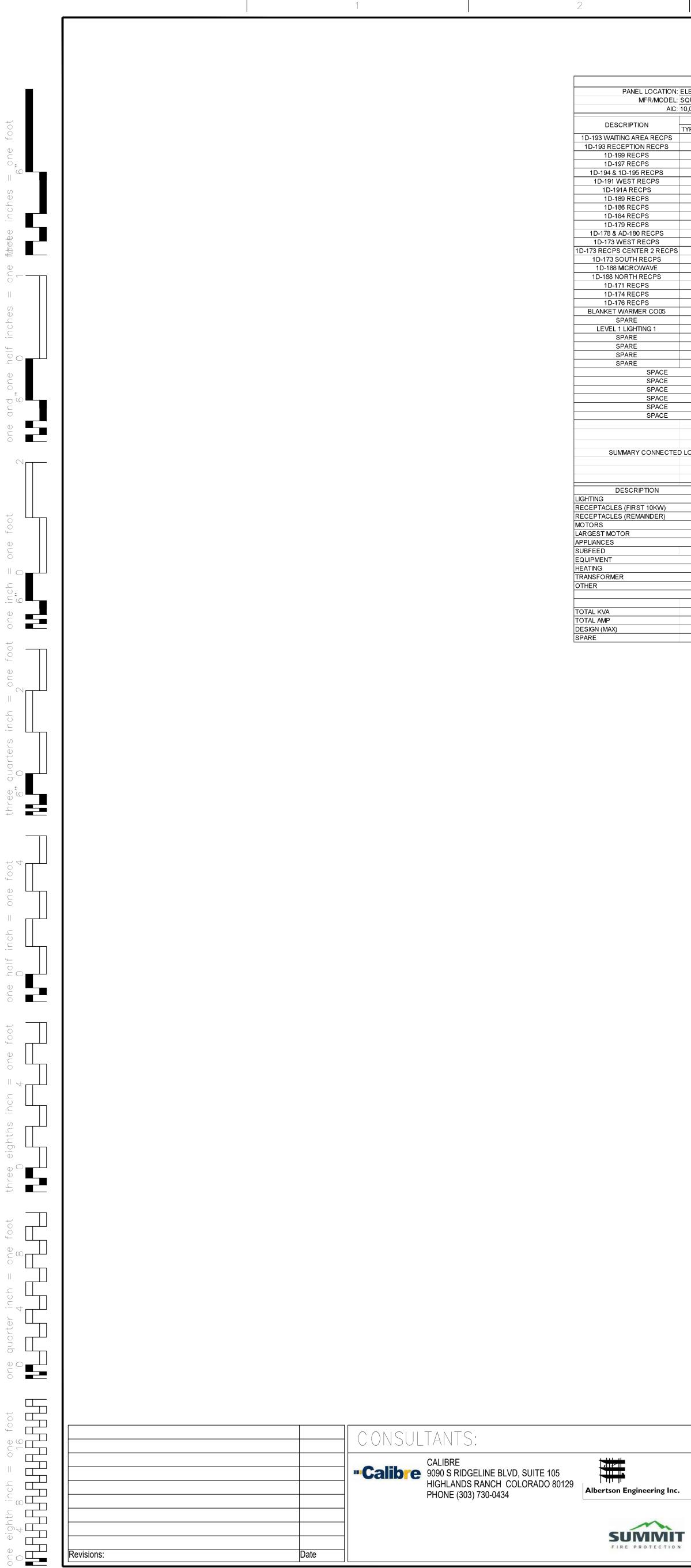
										PANE	L "ES1	LOS5"											
PANEL LOCATION	ELECTRICAL	BD-13	0A				L	-L VOLT:			HASE:			MAIN:	LUG	N					BRE	AKER	Y
	SQUARE D NO			/ED EQUAL			_	-N VOLT:			VIRES:		W			HHN + #2	CU	l					SWBD-EQ BRANCH
	10,000						_	ED AMP:		-		. 100%			2-1/2" El								SURFACE
	BREAKE	D		BRANCH WIRI	<b>C</b>				T/S/O/M				T/S/O/M					BRANCH WIR			BREAKE		
DESCRIPTION	TYPE POLE					L-LOAD	R-LOAD	O-LOAD	A/E/H		PHASE	Ξ	/A/E/H	O-LOAD	R-LOAD	L-LOAD					POLE		DESCRIPTION
NE WORK STATION EM RECPS		20	(2)#12		#12		1080			1	A	2			1080		(2)#12		#12	20	1		L CENTRAL WORK STN. 1
SE WORK STATION EM RECPS		20	(2)#12	THHN	#12		1080			3	B	4			1000		(2)#12		#12	20	1		SPARE
DOOR HOLD OPENS	1	20	(2)#12	THHN	#12		500			5	C	6								20	1		SPARE
BASEMENT LEVEL EM LIGHTING		20	(2)#12	THHN	#12	1744	000			7	A	8								20	1		SPARE
EXTERIOR EGRESS LIGHTING		20	(2)#12	THHN	#12	49				9	В	10								20	1		SPARE
SPACE		20	(2),12		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					11	c	12								20			SPACE
SPACE										13	A	14											SPACE
SPACE										15	В	16											SPACE
SPACE										17	C	18											SPACE
SPACE										19	Ā	20											SPACE
SPACE										21	B	22											SPACE
SPACE										23	c	24											SPACE
SPACE										25	Ā	26											SPACE
SPACE										27	B	28											SPACE
SPACE										29	C	30											SPACE
SPACE										31	A	32											SPACE
SPACE										33	B	34											SPACE
SPACE										35	c	36											SPACE
								2718	s	37	A	38											SPACE
PANEL ES11S5		50	#6	ТННМ	#8			2538	S	39	В	40											SPACE
								3502	S	41	C	42											SPACE
								0	М				М	0									
								0	А				А	0									
								8758	S				S	0									
SUMMARY CONNECTE						1793	2660	0	E		LOAD	1	E	0	1080	0					SUMM	ARY C	ONNECTED LOADS
							2000	0	H		T-AMPI		н	0	1000						001111		
								0	Т	(			Т	0									
								ō	0				Ö	0									
DECODIDITION								_	_				-	-									
DESCRIPTION	CONN					D.F	DEM								440	1/1/1							
	1.					1.25	2									KVA							
	3.					1.0	3					U.		AMP		KVA							BFEED
	0.					0.5	0		DESIGN							KVA						O=OT	
MOTORS	0.					1.0	0		SPAREL				64	AMP	23.0	KVA					-		
	0.					1.25	0																
	0.					1.0	0					BALAN			6 600	1/1/1							
	8.					0.8	7		PHASE A						6.622						-	H-HEA	
EQUIPMENT HEATING	0.					1.0	0		PHASE E					AMP AMP	3.667								
TRANSFORMER	0.					1.0	0			, 			33.4	AIVIP	4.002	r vA					-		HTING I.=CONNECTED
OTHER	0.					1.0 1.0	0		АТОВ				15	%									DEMAND
	0.	U				1.0	+ 0		BTOC					%									SPARE
									CTOA				-9 -65										SPARE
TOTAL KVA	143	KVA					12.0														-	370=	JFAUE
TOTAL AMP		AMP							-									MAY BE RUN 1				D E - '	
DESIGN (MAX)	39.7		-						_									CONDUCTO					GROUND FAULT CIRCUIT
SPARE							100		DERATE									0010010		-			

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											PANE	L "EB1	LOS5"										
PANEL LOCATION								L	-L VOLT:	208		HASE:					Ν					BREAKER	
MFR/MODEL	: SQUAI	REDN	IQ OR .	APPROV	ED EQUAL			Ŀ	N VOLT:	120	Ν	/IRES:	4	W	IRE SIZE:	(8) 4/0 T	HHN + (2)	) 2/0 CU				FED FROM:	SWBD-EQ BRANCH
AIC	: 10,000							RAT	ED AMP:	225	NE	EURAL	. 100%	COI	ND. SIZE:	(2) 3" EN	/IT					MOUNT:	SURFACE
	В	REAKE	R	В	RANCH WIR	F				T/S/O/M/				T/S/O/M	1				BRANCH WIF	۶F	F	BREAKER	
DESCRIPTION	TYPE				INSULATION		L-LOAD	R-LOAD	O-LOAD	A/E/H		PHASE	Ξ	/A/E/H	' O-LOAD	R-LOAD	L-LOAD	SIZE				POLE TYPE	DESCRIPTION
			,						4350	М	1	Α	2	М	2688								
AHU-1 SUPPLY		3	80	#2	THHN	#8			4350 4350	M	3 5	B	4	M	2688 2688			(4)#6	THHN	#8	50	3	M-AHU-85 RETURN
BASEMENT TERMINAL UNITS		1	20	(2)#12	THHN	#12			1100	M	7	A	8	M	734								
UH-1		1	20	(2)#12	THWN	#12			96	M	9	B	10	M	734			4)#12	THHN	#12	20	3	HWP-1
HX-1, HX-2, WMS-1		1	20	(2)#12	THWN	#12			1920	0	11	C	12	M	734			1					
CP-1		1	20	(2)#12	THWN	#12			114	M	13	A	14	M	734								
EF-B08		1	20	(2)#12	THWN	#12			792	M	15	B	16	M	734			4)#12	THHN	#12	20	3	HWP-2
MAN HOLE #10 RECPS		1	20	(2)#8	THWN	#8		180	102		17	C	18	M	734			1 1, 1, 1, 1, 2		,			
MANHOLE #11 RECPS		1	20	(2)#8	THWN	#8		180			19	A	20	M	3600			(2)#4	THWN	#8	75	1	EXT. ACCESS CONTROL GATE
NEW MANHOLE RECPS		1	20	(2)#8	THWN	#8		180			21	B	22					(_),,, 1			20	1	SPARE
SPARE		1	20	(2)				100			23	c	24								20	1	SPARE
SPARE		1	20								25	A	26								20	1	SPARE
SPARE		1	20								27	B	28								20	1	SPARE
SPARE		1	20								29	C	30								20	1	SPARE
SPARE		1	20								31	A	32								20	1	SPARE
SPARE		1	20								33	B	34								20	1	SPARE
SPARE		1	20								35	C	36								20	1	SPARE
SPARE		1	20								37	A	38	S	1568						20		3FARE
SPARE		1										B	-	-				#1	-		100		DANEL ED1105
SPARE		1	20								39	_	40	<u> </u>	1200 1200			#1	THHN	#6	100	3	PANEL EB11S5
SPARE		1	20						45450		41	С	42	<u>S</u>									
									15152	М				М	16068								
									0	A				Α	0								
									0	S				S	3968								
SUMMARY CONNECTE	D LOAD	S					0	540	0	E		LOAD		E	0	0	0					SUMMARY CO	ONNECTED LOADS
									0	н	(VOLT	T-AMPI	ERES)	Н	0								
									0	Т				Т	0								
									1920	0				0	0								
DESCRIPTION		CON	N. KVA				D.F	DEM.	KVA	AMPERAG	SE FE	р то і	PANEL	225								LEGE	ND/KEY
LIGHTING			).0				1.25	0.		TOTAL CO				104.5		37.6	KVA						ANSFORMER
RECEPTACLES (FIRST 10KW)			).5				1.0	0.	-	TOTAL DE				105.3			KVA					S=SUE	
RECEPTACLES (REMAINDER)			).0				0.5	0.		DESIGN (I					5 AMP		KVA					O=OT	
MOTORS			6.9				1.0	26		SPARE LO					AMP		KVA					M=MO	
LARGEST MOTOR			1.4				1.25	5.		0178122				.20			1.1.9.1						PLIANCE
APPLIANCES			).0				1.20	0.		CONNEC	TEDI												UIPMENT
SUBFEED			1.0 1.0				0.8	3.		PHASE A				125.6		15.068	KVA					H-HEA	
EQUIPMENT			).0				1.0	0.		PHASE B						10.774						-	CEPTACLES
HEATING			).0				1.0	0.		PHASE C					AMP	11.806						L=LIG	
TRANSFORMER			).0				1.0	0.						00.4		17.000						-	.=CONNECTED
OTHER			.9				1.0	1.		А ТО В				28	3 %					_			DEMAND
-=		'								втос				-10								-	SPARE
<u> </u>										CTOA				-28						_			SPACE
TOTAL KVA		37.6	KVA					37 0	KVA				VIRES								-		
TOTAL AMP			AMP																MAY BE RUN				EMAND FACTOR
DESIGN (MAX)		104.0						225															GROUND FAULT CIRCUIT
SPARE								119.7		DERATED											_		
		I				1	1		7 11 11							( )(-)(-)	,						

Drawing Title ELECTRICAL PANEL SCHEDULES BASEMENT LEVEL	Project Title EXPAND BLI PRIMARY CA	R	Project Number 437-315 Building Number
Approved: Project Director FARGO VAHCS	Location 2101 ELN FARGO, N Date 11/16/2021	Drawn JS	Drawing Number E-O Dwg. 92 o





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											PANEL "		1		1								
DCATION:				-				_	-L VOLT:			E: 3			LUG	-						AKER	
			Q OR	APPRO\	/ED EQUAL			-	N VOLT:			S: 4			(4) 2/0 TH	HN + #4	- CU						PANEL 10S5
AIC:	10,000							RAT	ED AMP:	250	NEUR	AL 100%	100	ND. SIZE:	2" EMT						N	10UNT:	SURFACE
-			R AMP		BRANCH WIF		L-LOAD	R-LOAD	O-LOAD	T/S/O/M/ A/E/H	PHA	SE	T/S/O/M /A/E/H	O-LOAD	R-LOAD	L-LOAD		RANCH WIRE			REAKE	ER TYPE	DESCRIPTION
RECPS		1	20	(2)#12	THHN	#12		540			1 A	2			720		(2)#12	THHN	#12	20	1		1D-193 OFFICE RECPS
ECPS		1	20	(2)#12	THHN	#12		1080			3 B				540		(2)#12	THHN	#12	20	1		CORRIDOR CO06 RECPS
		1	20	(2)#12	THHN	#12		900			5 C				1080		(2)#12	THHN	#12	20	1		1D-198 RECPS
		1	20	(2)#12	THHN	#12		900			7 A				900		(2)#12	THHN	#12	20	1		1D-196 RECPS
CPS		1	20	(2)#12	THHN	#12		1080			9 B				1080		(2)#12	THHN	#12	20	1		1D-192 RECPS
PS		1	20	(2)#12	THHN	#12		900			11 C				720		(2)#12	THHN	#12	20	1		1D-191 EAST RECPS
3		1	20	(2)#12	THHN	#12		720			13 A				1080		(2)#12	THHN	#12	20	1		1D-190 RECPS
		1	20	(2)#12	THHN	#12		1080			15 B				1080		(2)#12	THHN	#12	20	1		1D-187 RECPS
		1	20	(2)#12	THHN	#12		1080			17 C				1080		(2)#12	THHN	#12	20	1		1D-185 RECPS
		1	20	(2)#12	THHN	#12		1260			19 A				1080		(2)#12	THHN	#12	20	1		1D-181 RECPS
		1	20	(2)#12	THHN	#12		1080			21 B	22			1080		(2)#12	THHN	#12	20	1		1D-177 RECPS
CPS		1	20	(2)#12	THHN	#12		1080			23 C	24			900		(2)#12	THHN	#12	20	1		1D-182 & 1D-183 RECPS
PS		1	20	(2)#12	THHN	#12		1080			25 A	26			720		(2)#12	THHN	#12	20	1		1D-173 RECPS CENTER 1 RECPS
2 RECPS		1	20	(2)#12	THHN	#12		1080			27 B	28			900		(2)#12	THHN	#12	20	1		1D-173 NORTH RECPS
CPS		1	20	(2)#12	THHN	#12		1080			29 C	30			720		(2)#12	THHN	#12	20	1	Ċ	ORRIDOR CO05 & AD-188A RECP
VE		1	20	(2)#12	THHN	#12			1100	A	31 A	32	A	1800			(2)#12	THHN	#12	20	1		1D-188 FRIDGE
CPS		1	20	(2)#12	THHN	#12		720			33 B	34			540		(2)#12	THHN	#12	20	1		1D-188 SOUTH RECPS
		1	20	(2)#12	THHN	#12		1080			35 C	36			1080		(2)#12	THHN	#12	20	1		1D-172 RECPS
		1	20	(2)#12	THHN	#12		720			37 A	38			1080		(2)#12	THHN	#12	20	1		1D-175 RECPS
		1	20	(2)#12	THHN	#12		1080			39 B	40			180		(2)#12	THHN	#12	20	1		1D-176 PATIENT LIFT
CO05		1	20	(2)#12	THHN	#12		800			41 C	42								20	1		SPARE
		1	20								43 A	44								20	1		SPARE
51		1	20	(2)#12	THHN	#12	660				45 B	46				1288	(2)#12	THHN	#12	20	1		LEVEL 1 LIGHTING 2
		1	20								47 C	48								20	1		SPARE
		1	20								49 A	50								20	1		SPARE
		1	20								51 B	52								20	1		SPARE
		1	20								53 C	54								20	1		SPARE
PACE											55 A												SPACE
PACE											57 B												SPACE
PACE											59 C												SPACE
PACE											61 A												SPACE
PACE											63 B												SPACE
PACE									-		65 C	66		-									SPACE
									0	М			M	0									
									1100	A			A	1800									
									0	S			S	0									
NNECTED	LOAD	S					660	19340	0	Е	LOA		E	0	16560	1288					SUMN	IARY CO	ONNECTED LOADS
									0		(VOLT-AN	IPERES;		0									
									0	Т			T	0									
									0	0			0	0									
ON		CON	N. KVA				D.F	DEM.	KVA	AMPERAG	GE FED TO	D PANEL	. 125	AMP								LEGEN	ID/KEY
		1	.9				1.25	2.	4	TOTAL C	ONNECTE	D LOAD	113.1	AMP	40.7 k	<va< td=""><td></td><td></td><td></td><td></td><td></td><td>T=TRA</td><td>NSFORMER</td></va<>						T=TRA	NSFORMER
0KW)			0.0				1.0	10		TOTAL DI		DAD	78.5	AMP	28.3 k							S=SUE	
DER)			5.9				0.5	13		DESIGN (	,			AMP	45.0 k							O=OTH	
			0.0				1.0	0.		SPARE L	DAD		46	AMP	16.7 k	<va< td=""><td></td><td></td><td></td><td></td><td></td><td>M=MO</td><td></td></va<>						M=MO	
			0.0				1.25	0.															LIANCE
			2.9				1.0	2.		CONNEC		) BALAN	CESUMIV	ARY									JIPMENT
			).0				0.8	0.		PHASE A			114.2		13.7 k							H-HEA	
			0.0				1.0	0.		PHASE B			121.2		14.548 k								CEPTACLES
			).0				1.0	0.		PHASE C			104.2	AMP	12.5 k	<va< td=""><td></td><td></td><td></td><td></td><td></td><td>L=LIGH</td><td></td></va<>						L=LIGH	
			).0				1.0	0.															=CONNECTED
			).0				1.0	0.		A TO B				%									DEMAND
										BTOC			14									SPR=S	
		40-	10.0					-					-10									SPC=S	SPACE
			KVA							4													
		113.1	AMP	-														AY BE RUN T CONDUCTOR					
								125	, a	DERATE													GROUND FAULT CIRCUIT
				1		1	1	<del>_</del> +0.5							-(-/(*/(*/							51-51	

ALBERTSON ENGINEERING, INC. 315 NORTH MAIN AVENUE, SUITE 20 SIOUX FALLS, SOUTH DAKOTA 57104 PH: (605) 274-0880
 PH: (605) 274-0880

SUMMIT FIRE CONSULTING 575 MINNEHAHA AVE WEST ST. PAUL, MINNESOTA 55103 (612) 387-7050



### ARCHITECT



FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470 FAX: (605) 342-2377 WWW.FOURFRONTDESIGN.COM

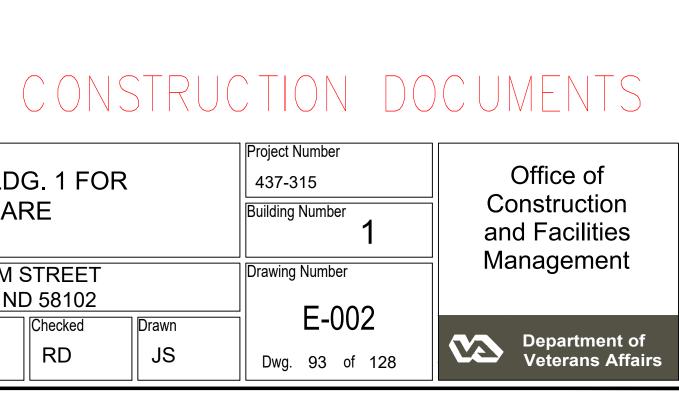
											PANE	L "ES1	1\$5"								
PANEL LOCATION:	ELECT	RICAL	1D-19	5				l	L-L VOLT			HASE:			MAIN:	LUG	Ν				Τ
MFR/MODEL:					ED EQUAL				-N VOLT			VIRES:		WI			HN +#8 (	JU			-
	10,000								TED AMP:			EURAL			D. SIZE:						
	BR	EAKE	R	F	RANCHWIR	F				T/S/O/M				T/S/O/M					BRANCH WIRE	-	Ŧ
DESCRIPTION	TYPE				INSULATION		L-LOAD	R-LOAD		A/E/H		PHASE		/A/E/H	O-LOAD	R-LOAD	L-LOAD	SIZE	INSULATION		t
WEST EXAM EM RECPS		1	20	(2)#12	THHN	#12		540			1	A	2			1080		(2)#12	THHN	#12	T
NORTH EXAM EM RECPS		1	20	(2)#12	THHN	#12		900			3	В	4			1080		(2)#12		#12	T
RECEPTION EM RECPS		1	20	(2)#12	THHN	#12		540			5	С	6			900		(2)#12	THHN	#12	Τ
PAGING SYSTEM RECP #1		1	20	(2)#12	THHN	#12		198			7	Α	8			900		(2)#12	THHN	#12	T
PAGING SYSTEM RECP #2		1	20	(2)#12	THHN	#12		198			9	В	10			360		(2)#12	THHN	#12	
LEVEL 1 EMERGENCY LIGHTING		1	20	(2)#12	THHN	#12	1562				11	С	12			500		(2)#12	THHN	#12	
SPARE		1	20								13	Α	14								
SPARE		1	20								15	В	16								
SPARE		1	20								17	С	18								
SPARE		1	20								19	Α	20								
SPARE		1	20								21	В	22								
SPACE											23	С	24								
SPACE											25	A	26								
SPACE											27	В	28								_
SPACE											29	С	30								
SPACE											31	A	32								_
SPACE											33	B	34								_
SPACE									-		35	C	36								$\downarrow$
SPACE											37	A	38								_
SPACE											39	B	40								$\downarrow$
SPACE											41	С	42								_
									0	М				M	0						_
									0	A				A	0						
									0	S				S	0						
SUMMARY CONNECTED	D LOADS	S					1562	2376	0	E		LOAD		E	0	4820	0				
									0	Н	(VOL	T-AMPE	ERES)	Н	0						
									0	Т				Т	0						_
									0	0				0	0						
DESCRIPTION		CONN	I. KVA				D.F	DEN	1. KVA	AMPERA	GE FE	D TO F	ANEL	50	AMP						Τ
LIGHTING		1.	6				1.25	2	2.0	TOTAL C	ONNE	CTED	LOAD	24.3	AMP	8.8	8 KVA				
RECEPTACLES (FIRST 10KW)		7.	2				1.0	7	'.2	TOTAL D	EMAN	D LOAI	D	25.4	AMP	9.1	KVA				
RECEPTACLES (REMAINDER)		0.	0				0.5	0	).0	DESIGN	(MAX)			50	AMP	18.0	) KVA				
MOTORS		0.	0				1.0	0	).0	SPARE L	.OAD			25	AMP	8.9	KVA				
LARGEST MOTOR		0.	0				1.25		).0												
APPLIANCES		0.					1.0		).0	CONNEC		LOAD E	BALANO	CE SUMM	ARY						
SUBFEED		0.	0				0.8	0	).0	PHASE A				22.7	AMP	2.718	8 KVA				
EQUIPMENT		0.					1.0	0	).0	PHASE B	}			21.2	AMP	2.538	8 KVA				
HEATING		0.	0				1.0	0	).0	PHASE C	;			29.2	AMP	3.502	2 KVA				
TRANSFORMER		0.					1.0		).0												
OTHER		0.	0				1.0	0	0.0	А ТО В					%						
										втос				-38							_
										С ТО А				22							
TOTAL KVA			KVA					9.1											G THE ONLY (		
TOTAL AMP		24.3	AMP					25.4		_									MAY BE RUN T		
DESIGN (MAX)								50										KAL ANE	CONDUCTO	KS ARE	-
SPARE								24.6	S AMP	DERATE	D RAS		12016	NEC TAB	LE 310.1	р(В)(З)(a	)				

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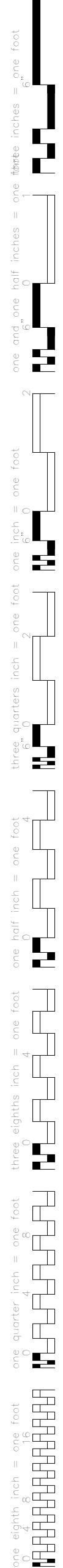
									PA	NEL "	EB1:	1S5"										
PANEL LOCATION:	ELECTRICAL	1D-195	5				L	-L VOLT:	208	PHA	SE:	3		Main: I	_UG	N					BREAKER	Υ
MFR/MODEL:		IQ OR A	PPROV	ED EQUAL			L-	N VOLT:	120	WIR	ES:	4	WI	RE SIZE: (	(4) <b>#1</b> TI	HHN + #6	CU				FED FROM:	PANEL EB10S5
AIC:	10,000						RAT	ed amp:	100	NEU	RAL	100%	CON	ND. SIZE:	2" EMT						MOUNT:	SURFACE
	BREAKE	R	B	RANCHWIRE	E				T/S/O/M/		!		T/S/O/M				E	BRANCH WIR	E	В	REAKER	
DESCRIPTION	TYPE POLE			INSULATION		L-LOAD	R-LOAD	O-LOAD	A/E/H	PH	IASE		/A/E/H	O-LOAD	R-LOAD	L-LOAD		INSULATION				DESCRIPTION
LEVEL 1 TERMINAL UNITS	1	20	(2)#12	THHN	#12			1040	E 1	1	A	2	М	528			(2)#12	THHN	#12	20	1	EF-120
SPARE	1	20								3	В	4	М	1200			(2)#12	THHN	#12	20	1	DOOR OPENER 1 - RECPT.
SPARE	1	20							Ę	5	С	6	М	1200			(2)#12	THHN	#12	20	1	DOOR OPENER 2 - RECPT.
SPARE	1	20								7	A	8								20	1	SPARE
SPARE	1	20							9	9	В	10								20	1	SPARE
SPARE	1	20							1	1	С	12								20	1	SPARE
SPARE	1	20									A	14								20	1	SPARE
SPARE	1	20									В	16								20	1	SPARE
SPACE											C	18										SPACE
SPACE											A	20										SPACE
SPACE									2		В	22										SPACE
SPACE											C	24										SPACE
	SPACE SPACE										A	26										SPACE
	SPACE								2		B	28										SPACE
SPACE											C	30										SPACE
	SPACE								3		<u>A</u>	32										SPACE
SPACE											B	34										SPACE
SPACE											<u>c</u>	36										SPACE
SPACE									3		A	38										SPACE
SPACE SPACE										-	B	40										SPACE SPACE
SPACE								0	4 	1	С	42	NA	2928								SPACE
								0	-				M									
								0	A				A	0								
						2	_	0	S				S	0	•	~						
SUMMARY CONNECTED	JLOADS					0	0	1040	E				E	0	0	0					SUMMARY C	ONNECTED LOADS
								0	H (VC	OLT-A	WPE	RES)		0								
								0	0				0	0								
								-					-	_								
DESCRIPTION		N. KVA				D.F	DEM.		AMPERAGE					AMP								ND/KEY
LIGHTING	0					1.25	0.		TOTAL CON				11.0			KVA						ANSFORMER
RECEPTACLES (FIRST 10KW)	0					1.0	0.		TOTAL DEM			נ	11.8			KVA						BFEED
RECEPTACLES (REMAINDER)	0					0.5	0.		DESIGN (MA					AMP	36.0						0=0T	
MOTORS	1					1.0	1.		SPARE LOA	ט			88	AMP	31.8	KVA					M=MO	
		.2				1.25	1.															
APPLIANCES SUBFEED	0	.0				1.0 0.8	0. 0.		CONNECTE PHASE A			ALANC			1.568	1/1/1						
EQUIPMENT						0.8	0. 1.		PHASE A PHASE B				13.1 10.0			KVA KVA					H-HEA	CEPTACLES
HEATING							0.		PHASE D				10.0			KVA					L=LIG	
TRANSFORMER								0					10.0	/-\\VII	1.2	1.1.1.1						
OTHER	0.0								А ТО В				23	%								
									BTOC					%								SPARE
					C TO A				-31									SPACE				
TOTAL KVA	40	KVA					4.3			BRANC	сни					IT SHOW		G THE ONLY				
TOTAL AMP		AMP																MAY BE RUN 1			D.F.=[	DEMAND FACTOR
DESIGN (MAX)									A SINGLE CO	DNDU	IT AS	S LONG	G AS THE	EY DO NO	SHARE	A NEUT	RAL AND	CONDUCTO	RS ARE			GROUND FAULT CIRCUIT
SPARE							88.2	AMP	DERATED B	ASED	) ON	2016 N	IEC TAB	LE 310.15	(B)(3)(a)						ST-SH	IUNT TRIP

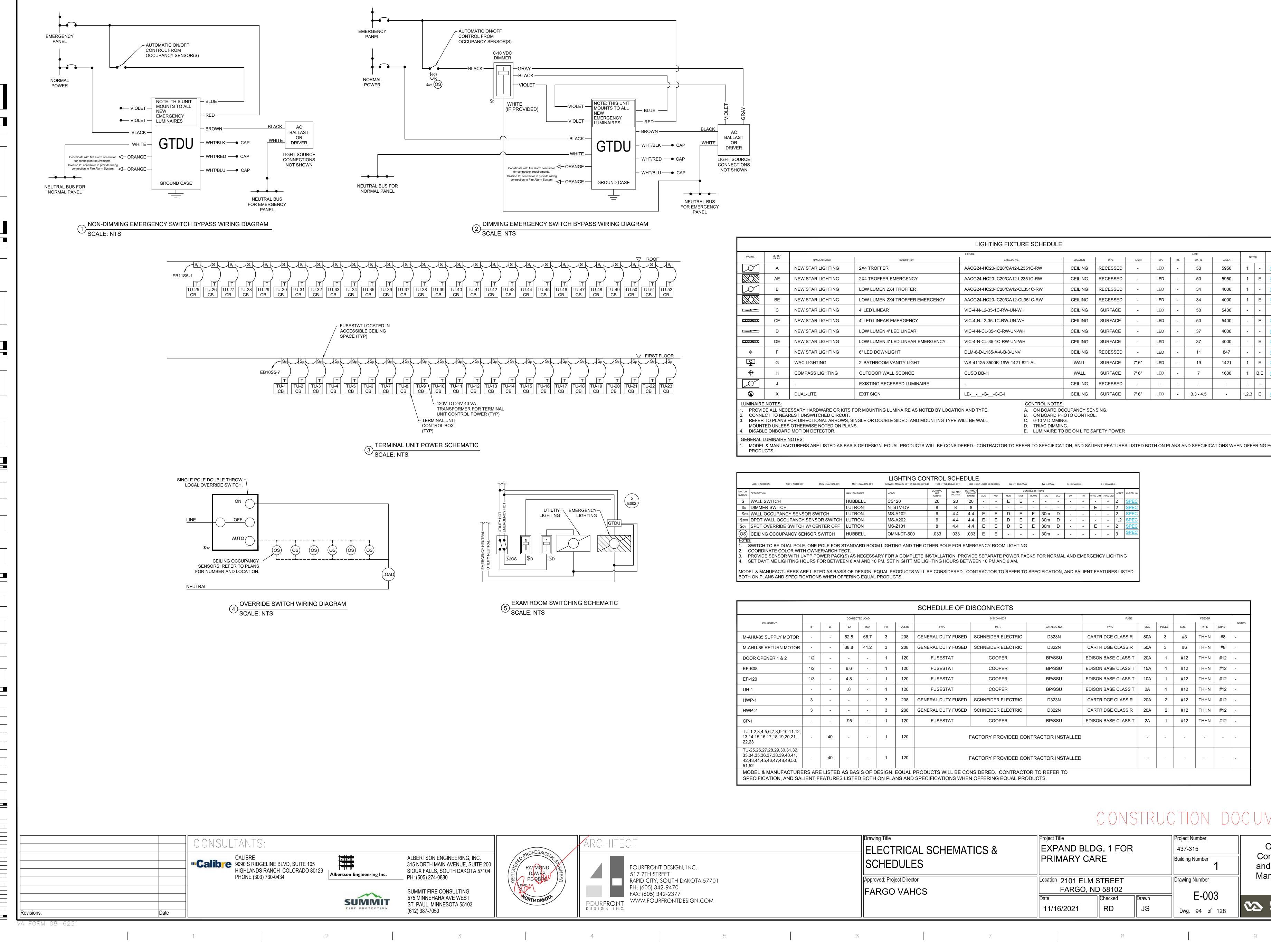
Drawing Title ELECTRICAL PANEL SCHEDULES LEVEL 1	Project Title EXPAND BL PRIMARY C		R	Project Number 437-315 Building Number
Approved: Project Director FARGO VAHCS	Location 2101 ELN FARGO.	M STREET ND 58102		Drawing Number
	Date	Checked	Drawn	E-0
	11/16/2021	RD	JS	Dwg. 93 c

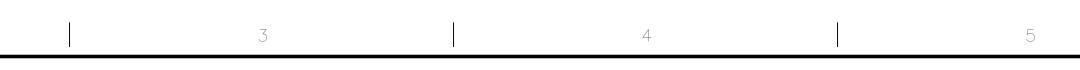
20         1         SOUTH EXAM EM RECPS           20         1         NW OFFICES EM RECPS           20         1         WORK ROOM EM RECPS 2           20         1         WORK ROOM EM RECPS 3           20         1         WORK ROOM EM RECPS 3           20         1         WORK ROOM EM RECPS 3           20         1         DOOR HOLD OPENS           20         1         SPARE           20         SPACE         SPACE           SPACE         SPACE				
MOUNT:         SURFACE           BREAKER         DESCRIPTION           20         1         SOUTH EXAMEM RECPS           20         1         NW OFFICES EM RECPS           20         1         WORK ROOM EM RECPS 1           20         1         WORK ROOM EM RECPS 2           20         1         WORK ROOM EM RECPS 3           20         1         WORK ROOM EM RECPS 3           20         1         DOOR HOLD OPENS           20         1         SPARE           20         1         SPACE           SPACE         SPACE           SPACE         SPACE           SPACE         SPACE				
BREAKE R         DESCRIPTION           MP         POLE         TYPE         DESCRIPTION           20         1         SOUTH EXAMEM RECPS           20         1         WORK ROOM EM RECPS 1           20         1         WORK ROOM EM RECPS 2           20         1         WORK ROOM EM RECPS 2           20         1         WORK ROOM EM RECPS 3           20         1         DOOR HOLD OPENS           20         1         SPARE           20         1         SPACE           SPACE         SPACE           SPACE         SPACE           SPACE         SPACE           SPACE         SPACE           SPACE         SPACE		-		
MP         POLE         TYPE         DESCRIPTION           20         1         SOUTH EXAMEM RECPS           20         1         WORK ROOM EM RECPS 1           20         1         WORK ROOM EM RECPS 2           20         1         WORK ROOM EM RECPS 3           20         1         WORK ROOM EM RECPS 3           20         1         DOOR HOLD OPENS           20         1         SPARE           20         SPACE         SPACE           SPACE         SPACE <td></td> <td>M</td> <td>OUNT:</td> <td>SURFACE</td>		M	OUNT:	SURFACE
MP         POLE         TYPE         DESCRIPTION           20         1         SOUTH EXAMEM RECPS           20         1         WORK ROOM EM RECPS 1           20         1         WORK ROOM EM RECPS 2           20         1         WORK ROOM EM RECPS 3           20         1         WORK ROOM EM RECPS 3           20         1         DOOR HOLD OPENS           20         1         SPARE           20         SPACE         SPACE           SPACE         SPACE <td>В</td> <td>REAKE</td> <td>R</td> <td></td>	В	REAKE	R	
20         1         SOUTH EXAM EM RECPS           20         1         WW OFFICES EM RECPS           20         1         WORK ROOM EM RECPS 2           20         1         WORK ROOM EM RECPS 3           20         1         WORK ROOM EM RECPS 3           20         1         DOOR HOLD OPENS           20         1         SPARE           30         SPACE         SPACE           30         SPACE         SPACE	AMP			DESCRIPTION
20         1         NW OFFICES EM RECPS           20         1         WORK ROOM EM RECPS 1           20         1         WORK ROOM EM RECPS 3           20         1         WORK ROOM EM RECPS 3           20         1         WORK ROOM EM RECPS 3           20         1         DOOR HOLD OPENS           20         1         SPARE           20         1         SPACE           SPACE         SPACE <td>20</td> <td></td> <td>· · · · <u>–</u></td> <td>SOUTH EXAMEM RECPS</td>	20		· · · · <u>–</u>	SOUTH EXAMEM RECPS
20         1         WORK ROOM EM RECPS 1           20         1         WORK ROOM EM RECPS 2           20         1         DOOR HOLD OPENS           20         1         SPARE           20         SPARE         SPARE           20         SPARE         SPARE           20         SPARE				
20         1         WORK ROOM EM RECPS 2           20         1         WORK ROOM EM RECPS 3           20         1         DOOR HOLD OPENS           20         1         SPARE           20         SPACE         SPACE           S				
20         1         WORK ROOM EM RECPS 3           20         1         DOOR HOLD OPENS           20         1         SPARE           20         1         SPACE           20         SPACE         SPACE           SPACE				
20         1         DOOR HOLD OPENS           20         1         SPARE           20         1         SPACE           20         SPACE         SPACE           SUMMARY CONNECTED LOADS				
20         1         SPARE           20         1         SPACE           SPACE         SPACE           SUMMARY CONNECTED LOADS         Setter State           SUBFEED         O=OTHER           M=MOTOR         A=APPLIANCE				
20         1         SPARE           20         1         SPARE           20         1         SPARE           20         1         SPARE           20         1         SPACE           20         SPACE         SPACE           SUMMARY CONNECTED LOADS         Setter State           SSUBFEED         O=OTHER           M=MOTOR         A=APPLANCE <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
20         1         SPARE           SPACE         SPARE           SPARE         SPARE           SPARE         SPARE           SPARE         SPARE           SUMMARY CONNECTED LOADS         SPARE           SUBFED         OOOTHER           M=MOTOR         A=APPLIANCE           E=EQUIPMENT         H           H-HEATING         R=RECEPTACLES           L=LIGHTING         CONN.=CONNECTED           DEM.=DEMAND         SPR=SPARE           SPC=SPARE         SPC=SPARE           SPC=SPARE <t< td=""><td></td><td></td><td></td><td></td></t<>				
20         1         SPARE           20         1         SPARE           20         1         SPACE           20         SPACE         SPACE           SPACE         SPACE           SPACE         SPACE           SPACE         SPACE           SPACE         SPACE           SPACE         SPACE           SUMMARY CONNECTED LOADS         SUMMARY           SUMMARY CONNECTED LOADS         SUMMARY           SUMMARY CONNECTED LOADS         SEUBEED           SUMMARY CONNECTED LOADS         SESUBFEED           SUMMARY CONNECTED LOADS         SESUBFEED           SUMMARY CONNECTED LOADS         SESUBFEED           SOUTHER         SESUBFEED           SESUBFEED         O=OTHER           M=MOTOR         A=APPLIANCE           E=EQUIPMENT         HHEATING           R=RECEPTACLES         L=LIGHTING           CONN=CONNECTED         DEM=DEMAND           SPR=SPARE         SPC=SPACE           SPC=SPACE         SPC=SPACE           R IN         D.F.=DEMAND FACTOR				
20       1       SPACE         SPACE       SPACE         SUMMARY CONNECTED LOADS       SUMMARY CONNECTED LOADS         SUMMARY CONNECTED LOADS       SUMMARY         SUMMARY CONNECTED LOADS       SUMMARY         SUMMARY CONNECTED LOADS       SPACE         SUMMARY CONNECTED LOADS       SUMMARY         SUMMARY CONNECTED LOADS       SUMMARY         SUMMARY CONNECTED       SUMMARY         SPACE       SPC=SPACE         SPC=SPACE       SPC=SPACE         SIN       D.F.=DEMAND FACTOR         GFCI=GROUND FAULT CIRCUIT       SUMMARY				
SPACE SP				
SPACE SP	20			
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T=TRANSFORMER         S=SUBFEED         O=OTHER         M=MOTOR         A=APPLIANCE         E=EQUIPMENT         H-HEATING         R=RECEPTACLES         L=LIGHTING         CONN.=CONNECTED         DEM.=DEMAND         SPR=SPARE         SPC=SPACE         RIN         D.F.=DEMAND FACTOR         GFCI=GROUND FAULT CIRCUIT				
T=TRANSFORMER         S=SUBFEED         O=OTHER         M=MOTOR         A=APPLIANCE         E=EQUIPMENT         H-HEATING         R=RECEPTACLES         L=LIGHTING         CONN.=CONNECTED         DEM.=DEMAND         SPR=SPARE         SPC=SPACE         RIN         D.F.=DEMAND FACTOR         GFCI=GROUND FAULT CIRCUIT				
T=TRANSFORMER         S=SUBFEED         O=OTHER         M=MOTOR         A=APPLIANCE         E=EQUIPMENT         H-HEATING         R=RECEPTACLES         L=LIGHTING         CONN.=CONNECTED         DEM.=DEMAND         SPR=SPARE         SPC=SPACE         RIN         D.F.=DEMAND FACTOR         GFCI=GROUND FAULT CIRCUIT				
T=TRANSFORMER         S=SUBFEED         O=OTHER         M=MOTOR         A=APPLIANCE         E=EQUIPMENT         H-HEATING         R=RECEPTACLES         L=LIGHTING         CONN.=CONNECTED         DEM.=DEMAND         SPR=SPARE         SPC=SPACE         RIN         D.F.=DEMAND FACTOR         GFCI=GROUND FAULT CIRCUIT				
S=SUBFEED         O=OTHER         M=MOTOR         A=APPLIANCE         E=EQUIPMENT         H-HEATING         R=RECEPTACLES         L=LIGHTING         CONN.=CONNECTED         DEM.=DEMAND         SPR=SPARE         SPC=SPACE         RIN       D.F.=DEMAND FACTOR         GFCI=GROUND FAULT CIRCUIT				
O=OTHER         M=MOTOR         A=APPLIANCE         E=EQUIPMENT         H-HEATING         R=RECEPTACLES         L=LIGHTING         CONN.=CONNECTED         DEM.=DEMAND         SPR=SPARE         SPC=SPACE         R IN         D.F.=DEMAND FACTOR         GFCI=GROUND FAULT CIRCUIT				
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R IN D.F.=DEMAND FACTOR GFCI=GROUND FAULT CIRCUIT				
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R IN D.F.=DEMAND FACTOR GFCI=GROUND FAULT CIRCUIT			DEM.=	DEMAND
R IN D.F.=DEMAND FACTOR GFCI=GROUND FAULT CIRCUIT			SPR=S	SPARE
GFCI=GROUND FAULT CIRCUIT			SPC=S	SPACE
GFCI=GROUND FAULT CIRCUIT				
	r in		D.F.=D	EMAND FACTOR
ST-SHUNT TRIP			GFCI=	GROUND FAULT CIRCUIT
•			ST-SH	UNT TRIP











			LIGHTING FIXTURE SCHEDULE										
7			FIXTURE						LAMP		NOTE	Ee	HYPERLINK
_	MANUFACTURER	DESCRIPTION	CATALOG NO.	LOCATION	ТҮРЕ	HEIGHT	TYPE	NO.	WATTS	LUMEN			HYPEKLINK
	NEW STAR LIGHTING	2X4 TROFFER	AACG24-HC20-IC20/CA12-L2351C-RW	CEILING	RECESSED	-	LED	-	50	5950	1	-	<u>SPEC</u>
	NEW STAR LIGHTING	2X4 TROFFER EMERGENCY	AACG24-HC20-IC20/CA12-L2351C-RW	CEILING	RECESSED	-	LED	-	50	5950	1	E	<u>SPEC</u>
	NEW STAR LIGHTING	LOW LUMEN 2X4 TROFFER	AACG24-HC20-IC20/CA12-CL351C-RW	CEILING	RECESSED	-	LED	-	34	4000	1	-	<u>SPEC</u>
	NEW STAR LIGHTING	LOW LUMEN 2X4 TROFFER EMERGENCY	AACG24-HC20-IC20/CA12-CL351C-RW	CEILING	RECESSED	-	LED	-	34	4000	1	E	<u>SPEC</u>
	NEW STAR LIGHTING	4' LED LINEAR	VIC-4-N-L2-35-1C-RW-UN-WH	CEILING	SURFACE	-	LED	-	50	5400	-	-	
	NEW STAR LIGHTING	4' LED LINEAR EMERGENCY	VIC-4-N-L2-35-1C-RW-UN-WH	CEILING	SURFACE	-	LED	-	50	5400	-	E	<u>SPEC</u>
Τ	NEW STAR LIGHTING	LOW LUMEN 4' LED LINEAR	VIC-4-N-CL-35-1C-RW-UN-WH	CEILING	SURFACE	-	LED	-	37	4000	-	-	<u>SPEC</u>
NEW STAR LIGHTING         LOW LUMEN 4' LED LINEAR EMERGENCY         VIC-4-N-CL-35-1C-RW-UN-WH					SURFACE	-	LED	-	37	4000	-	E	<u>SPEC</u>
	NEW STAR LIGHTING	6" LED DOWNLIGHT	DLM-6-D-L135-A-A-B-3-UNV	CEILING	RECESSED	-	LED	-	11	847	-	-	<u>SPEC</u>
	WAC LIGHTING	2' BATHROOM VANITY LIGHT	WS-41125-3500K-19W-1421-821-AL	WALL	SURFACE	7' 6"	LED	-	19	1421	1	E	<u>SPEC</u>
	COMPASS LIGHTING	OUTDOOR WALL SCONCE	CUSO DB-H	WALL	SURFACE	7' 6"	LED	-	7	1600	1	B,E	<u>SPEC</u>
	-	EXISTING RECESSED LUMINAIRE	-	CEILING	RECESSED	-	-	-	-	-	-	-	
	DUAL-LITE	EXIT SIGN	LEGC-E-I	CEILING	SURFACE	7' 6"	LED	-	3.3 - 4.5	-	1,2,3	E	<u>SPEC</u>
AF 6 F 6S	DORLELITE       DORLET       DORLET <thdorlet< th=""> <thdorlet< th="">       DORLET       <thdor< td=""></thdor<></thdorlet<></thdorlet<>												

MODEL & MANUFACTURERS ARE LISTED AS BASIS OF DESIGN. EQUAL PRODUCTS WILL BE CONSIDERED. CONTRACTOR TO REFER TO SPECIFICATION, AND SALIENT FEATURES LISTED BOTH ON PLANS AND SPECI

AOF = AUTO OFF MON = MANUAL ON MOF = MANUAL OFF MOWO = MANUAL OFF WHILE OCCUPIED TDO = TIME DELAY OFF DLD = DAY LIGHT DETECTION 3W = THREE WAY 4W = 4 WAY E = ENABLED D = DISABLED																		
MANUFACTURER MODEL LIGHTING AMP DATING FAN AMP						NOTES	HYPERLINK											
	MANUFACIURER	MODEL	RATING	RATING	RATING	AON	AOF	MON	MOF	MOWO	TDO	DLD	3W	4W	0-10V DIM	TRIAC DIM	NOTES	HTPERLINK
	HUBBELL	CS120	20	20	20	-	-	Е	Е	-	-	-	-	-	-	-	2	<u>SPEC</u>
Н	LUTRON	NTSTV-DV	8	8	8	-	-	-	-	-	-	-	-	-	E	-	2	<u>SPEC</u>
ICY SENSOR SWITCH	LUTRON	MS-A102	6	4.4	4.4	Е	Е	D	Е	E	30m	D	-	-	-	-	2	<u>SPEC</u>
CUPANCY SENSOR SWITCH	LUTRON	MS-A202	6	4.4	4.4	Ш	Ш	D	Е	E	30m	D	-	-	-	-	1,2	<u>SPEC</u>
E SWITCH W/ CENTER OFF	LUTRON	MS-Z101	8	4.4	4.4	Е	Е	D	Е	E	30m	D	-	-	E	-	2	<u>SPEC</u>
ANCY SENSOR SWITCH	HUBBELL	OMNI-DT-500	.033	.033	.033	Е	Е	-	-	-	30m	-	-	-	-	-	3	<u>SPEC</u>

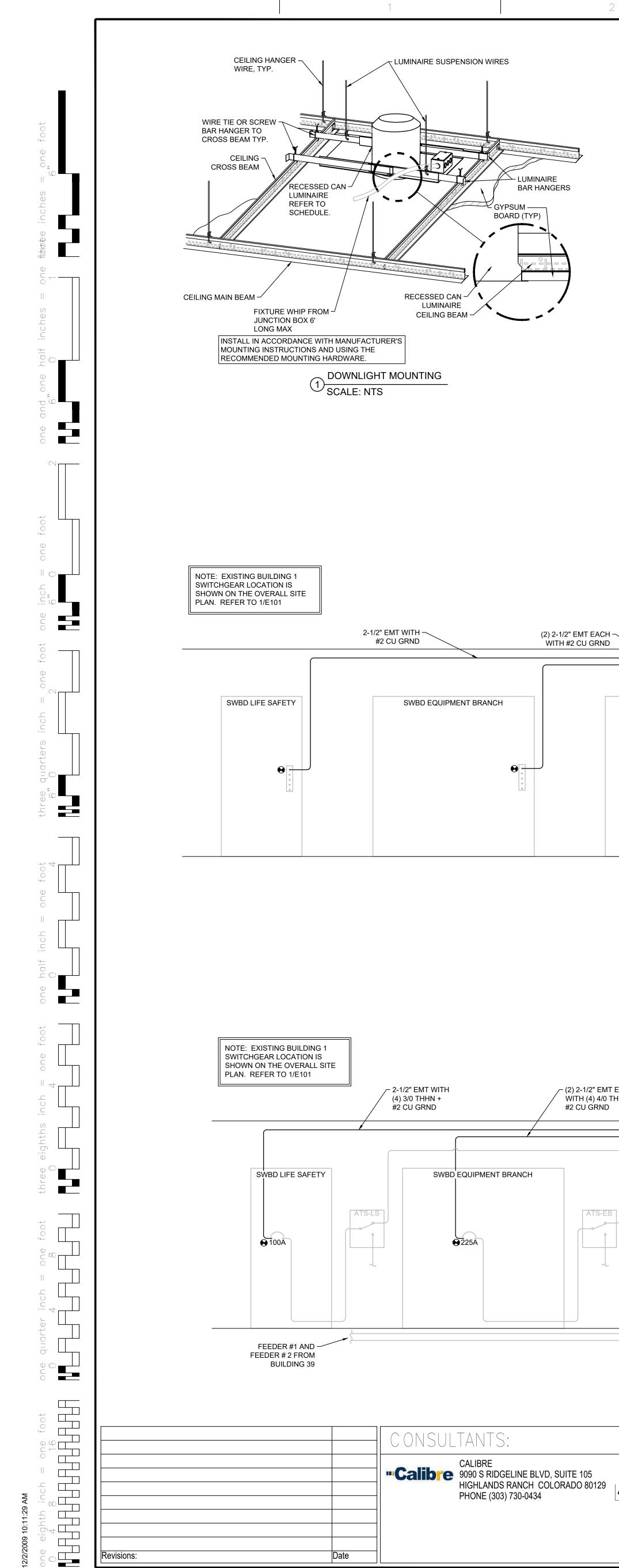
SWITCH TO BE DUAL POLE. ONE POLE FOR STANDARD ROOM LIGHTING AND THE OTHER POLE FOR EMERGENCY ROOM LIGHTING COORDINATE COLOR WITH OWNER/ARCHITECT. PROVIDE SENSOR WITH UVPP POWER PACK(S) AS NECESSARY FOR A COMPLETE INSTALLATION. PROVIDE SEPARATE POWER PACKS FOR NORMAL AND EMERGENCY LIGHTING SET DAYTIME LIGHTING HOURS FOR BETWEEN 6 AM AND 10 PM. SET NIGHTTIME LIGHTING HOURS BETWEEN 10 PM AND 6 AM.

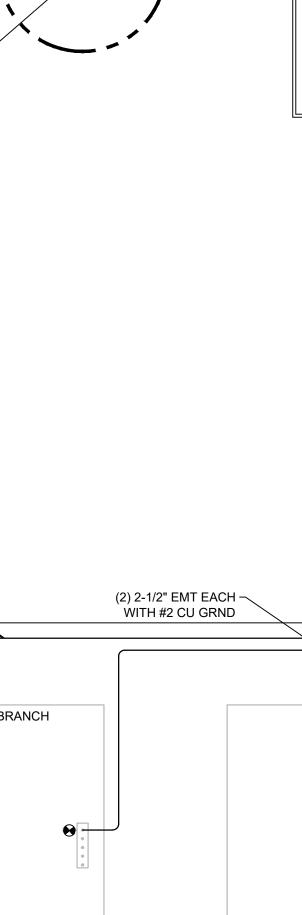
MODEL & MANUFACTURERS ARE LISTED AS BASIS OF DESIGN. EQUAL PRODUCTS WILL BE CONSIDERED. CONTRACTOR TO REFER TO SPECIFICATION, AND SALIENT FEATURES LISTED

			CONNEC	TED LOAD				DISCONNECT		FUSE				FEEDER		
	HP	w	FLA	MCA	PH	VOLTS	ТҮРЕ	MFR.	CATALOG NO.	ТҮРЕ	SIZE	POLES	SIZE	TYPE	GRND	NOTE
NOTOR	-	-	62.8	66.7	3	208	GENERAL DUTY FUSED	SCHNEIDER ELECTRIC	D323N	CARTRIDGE CLASS R	80A	3	#3	THHN	#8	-
MOTOR	-	-	38.8	41.2	3	208	GENERAL DUTY FUSED	SCHNEIDER ELECTRIC	D322N	CARTRIDGE CLASS R	50A	3	#6	THHN	#8	-
2	1/2	-	-	-	1	120	FUSESTAT	COOPER	BP/SSU	EDISON BASE CLASS T	20A	1	#12	THHN	#12	-
	1/2	-	6.6	-	1	120	FUSESTAT	COOPER	BP/SSU	EDISON BASE CLASS T	15A	1	#12	THHN	#12	-
	1/3	-	4.8	-	1	120	FUSESTAT	COOPER	BP/SSU	EDISON BASE CLASS T	10A	1	#12	THHN	#12	-
	-	-	.8	-	1	120	FUSESTAT	COOPER	BP/SSU	EDISON BASE CLASS T	2A	1	#12	THHN	#12	-
	3	-	-	-	3	208	GENERAL DUTY FUSED	SCHNEIDER ELECTRIC	D323N	CARTRIDGE CLASS R	20A	2	#12	THHN	#12	-
	3	-	-	-	3	208	GENERAL DUTY FUSED	SCHNEIDER ELECTRIC	D322N	CARTRIDGE CLASS R	20A	2	#12	THHN	#12	-
	-	-	.95	-	1	120	FUSESTAT	COOPER	BP/SSU	EDISON BASE CLASS T	2A	1	#12	THHN	#12	-
0,11,12, 20,21,	-	40	-	-	1	120	F	FACTORY PROVIDED CO	NTRACTOR INSTALL	ED	-	-	-	-	-	-
),31,32, ,40,41, ,49,50,	-	40	-	-	1	120	F	FACTORY PROVIDED CONTRACTOR INSTALLED						-	-	-

Drawing Title       Project Title       EXPAND BLDG. 1 FOR       PRIMARY CARE       B         SCHEDULES       Approved: Project Director       Exproved: Project Director       Exproved: Project Director       Exproved: Project Director       Exproved: Project Director       Expression       D         FARGO VAHCS       Expression       Expression       Expression       D	TION DO(	CUMENTS	
FARGO VAHCS FARGO, ND 58102	Project Number 437-315 Building Number 1	Office of Construction and Facilities	
Date Checked Drawn	Drawing Number E-003	Management	

CIFICATIONS WHEN OFFERING EQUAL





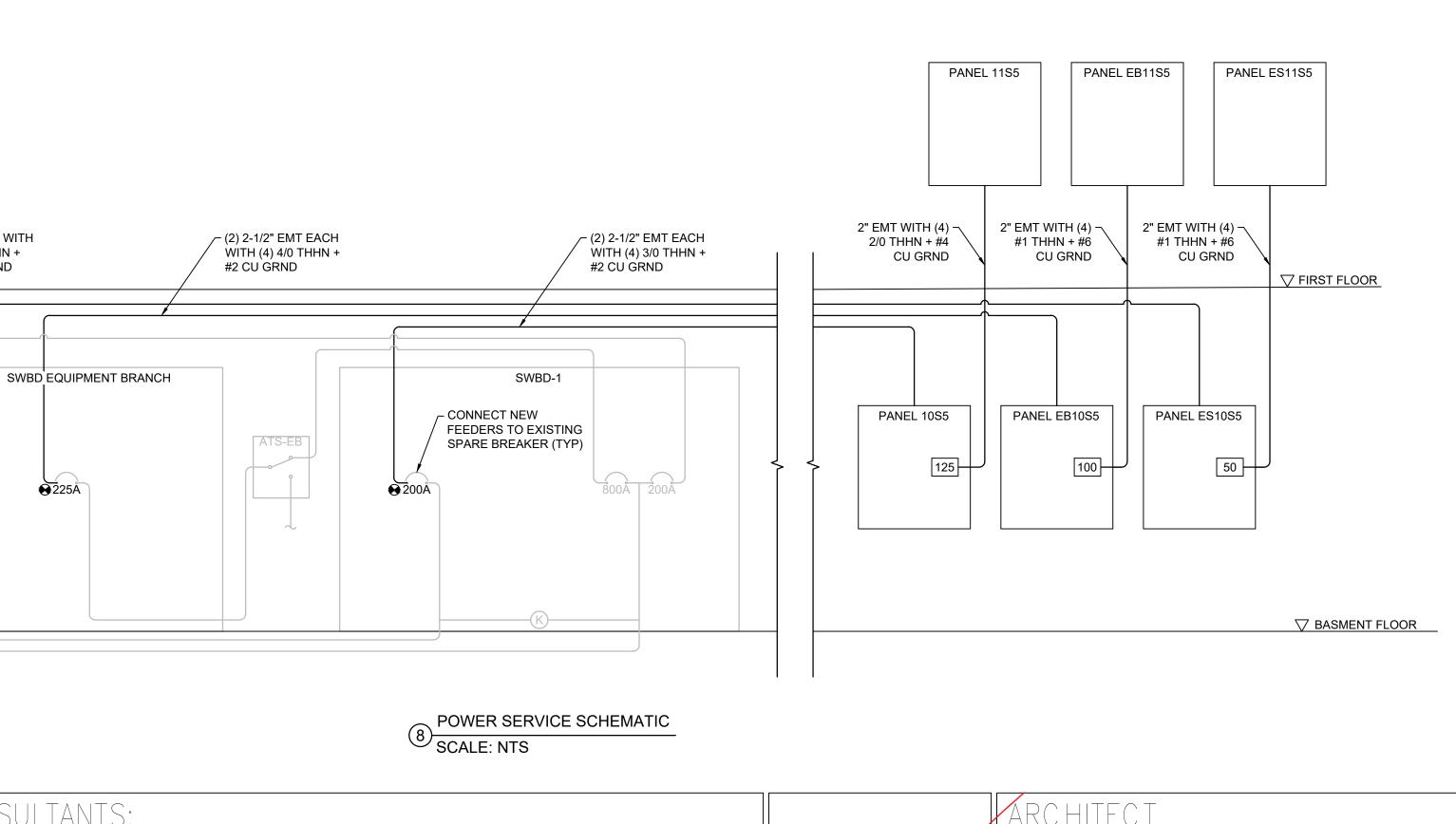
LUMINAIRE

GYPSUM ——

BOARD (TYP)

BAR HANGERS

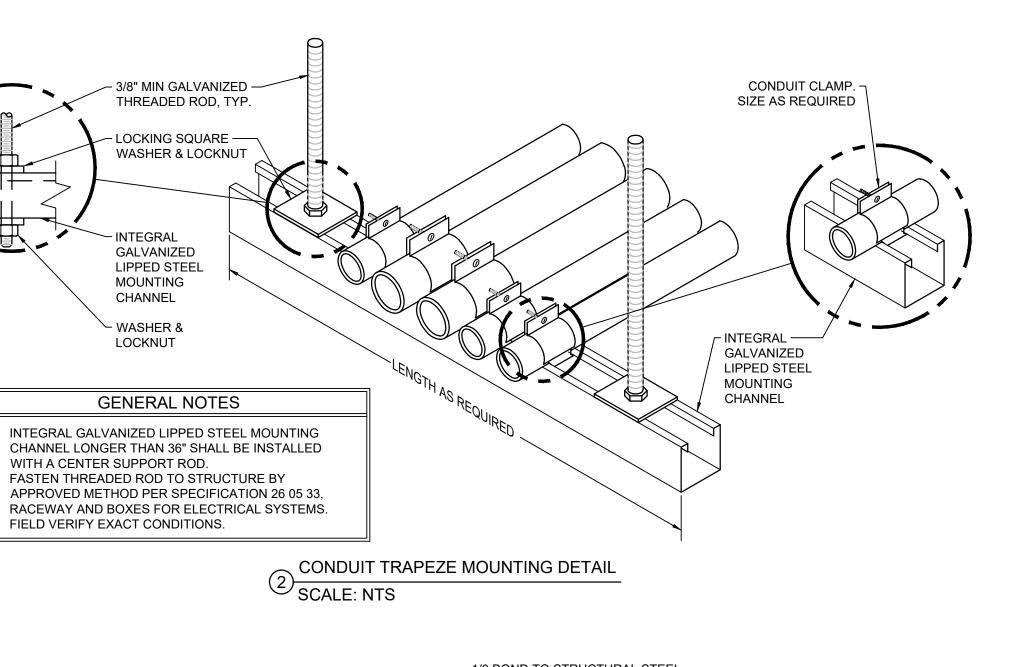
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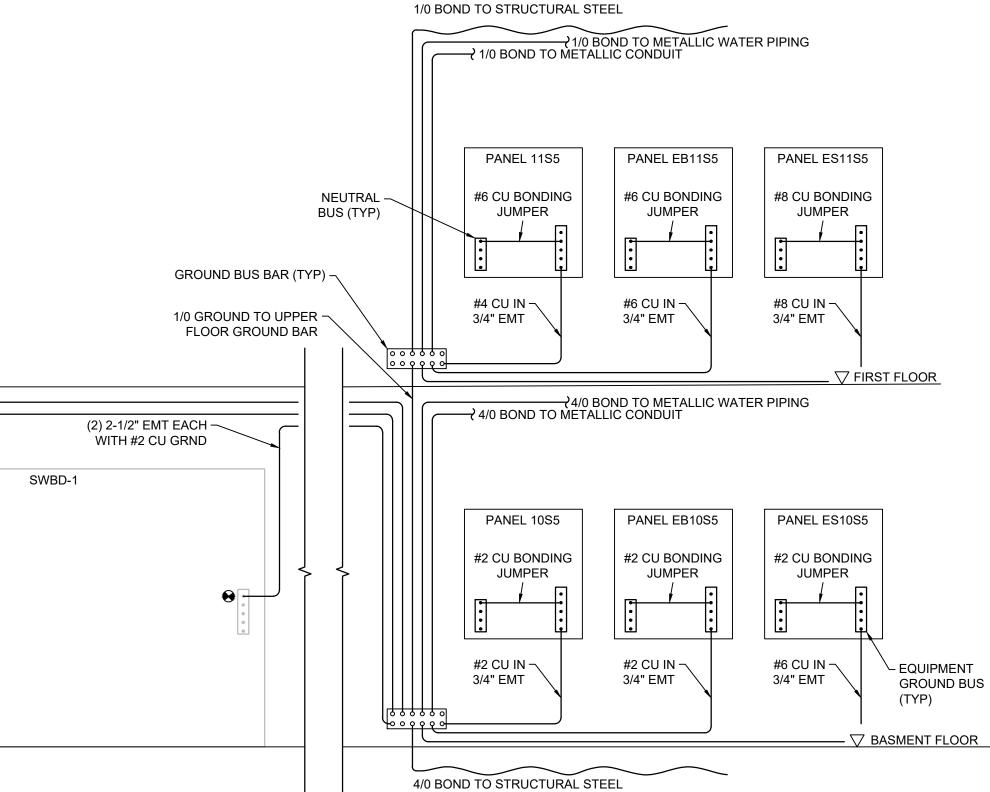


Revisions:

VA FORM 08-6231







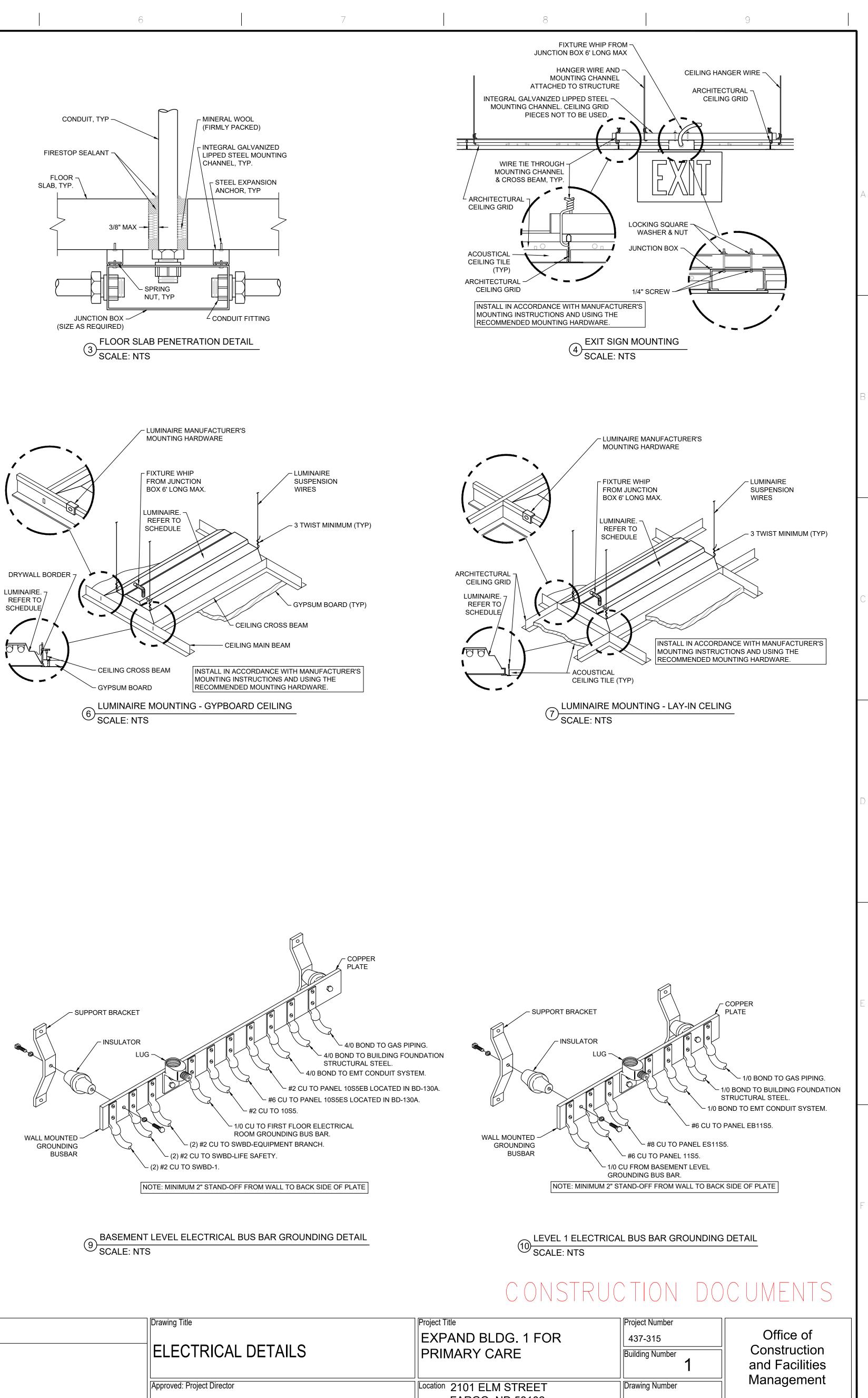
**VOWER SERVICE GROUNDING DETAIL** (5) SCALE: NTS

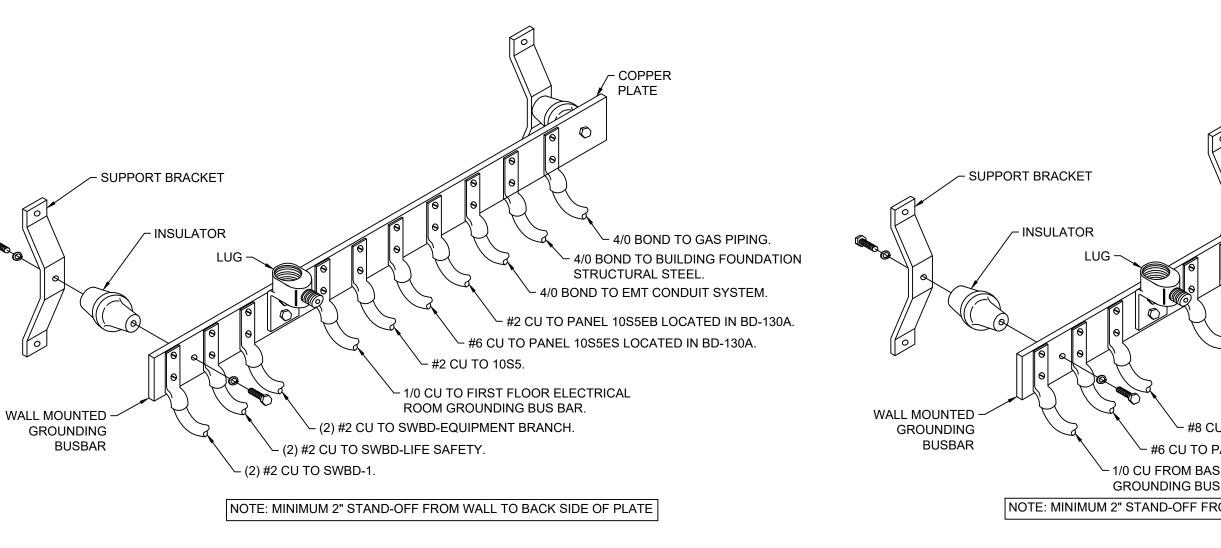
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		ARCHITECT
ALBERTSON ENGINEERING, INC. 315 NORTH MAIN AVENUE, SUITE 200 SIOUX FALLS, SOUTH DAKOTA 57104 PH: (605) 274-0880	RAYMOND SUD PROFESSION WE FIN RAYMOND DAWES PE-98400 FR	FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701
SUMMIT FIRE CONSULTING 575 MINNEHAHA AVE WEST ST. PAUL, MINNESOTA 55103 (612) 387-7050	WORTH DAKOTA	PH: (605) 342-9470         FAX: (605) 342-2377         WWW.FOURFRONTDESIGN.COM         D E S I G N I N C.

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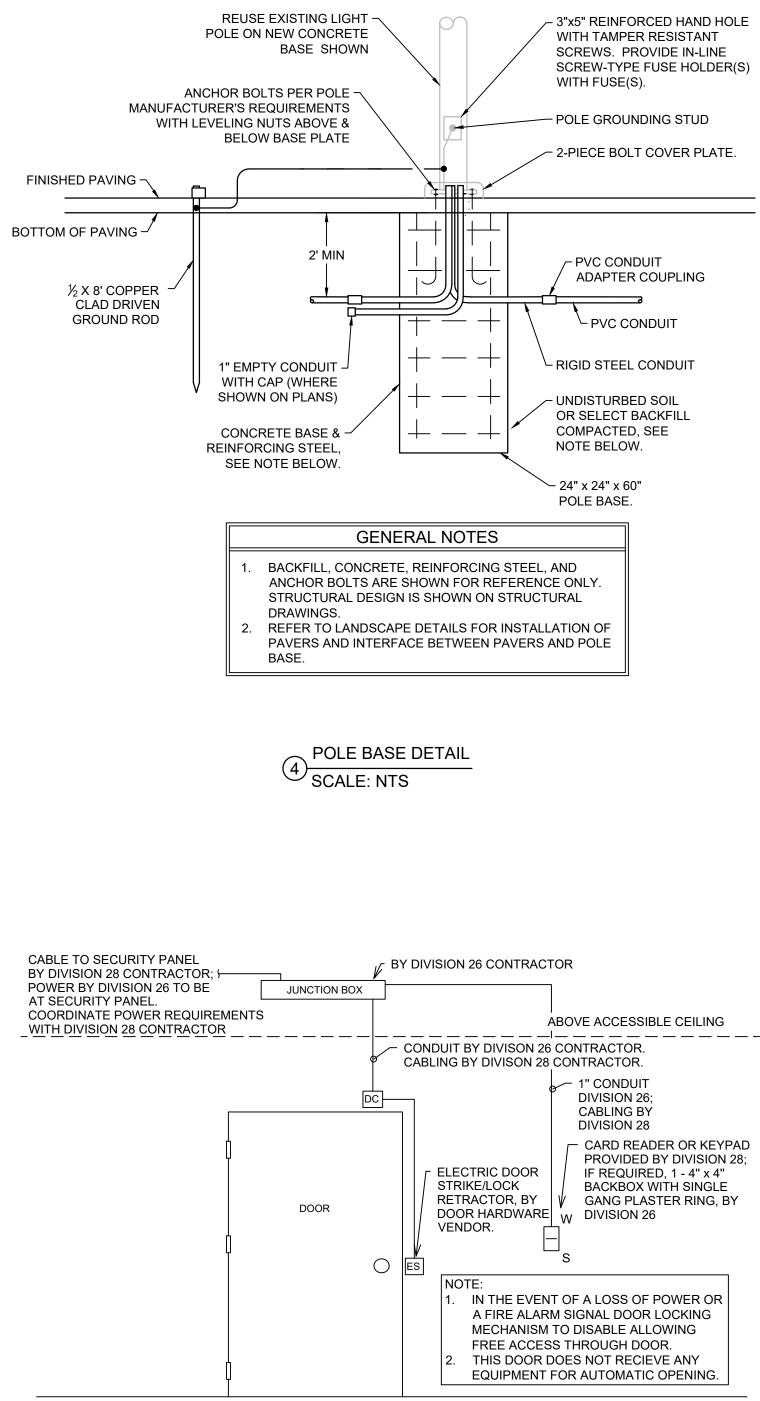
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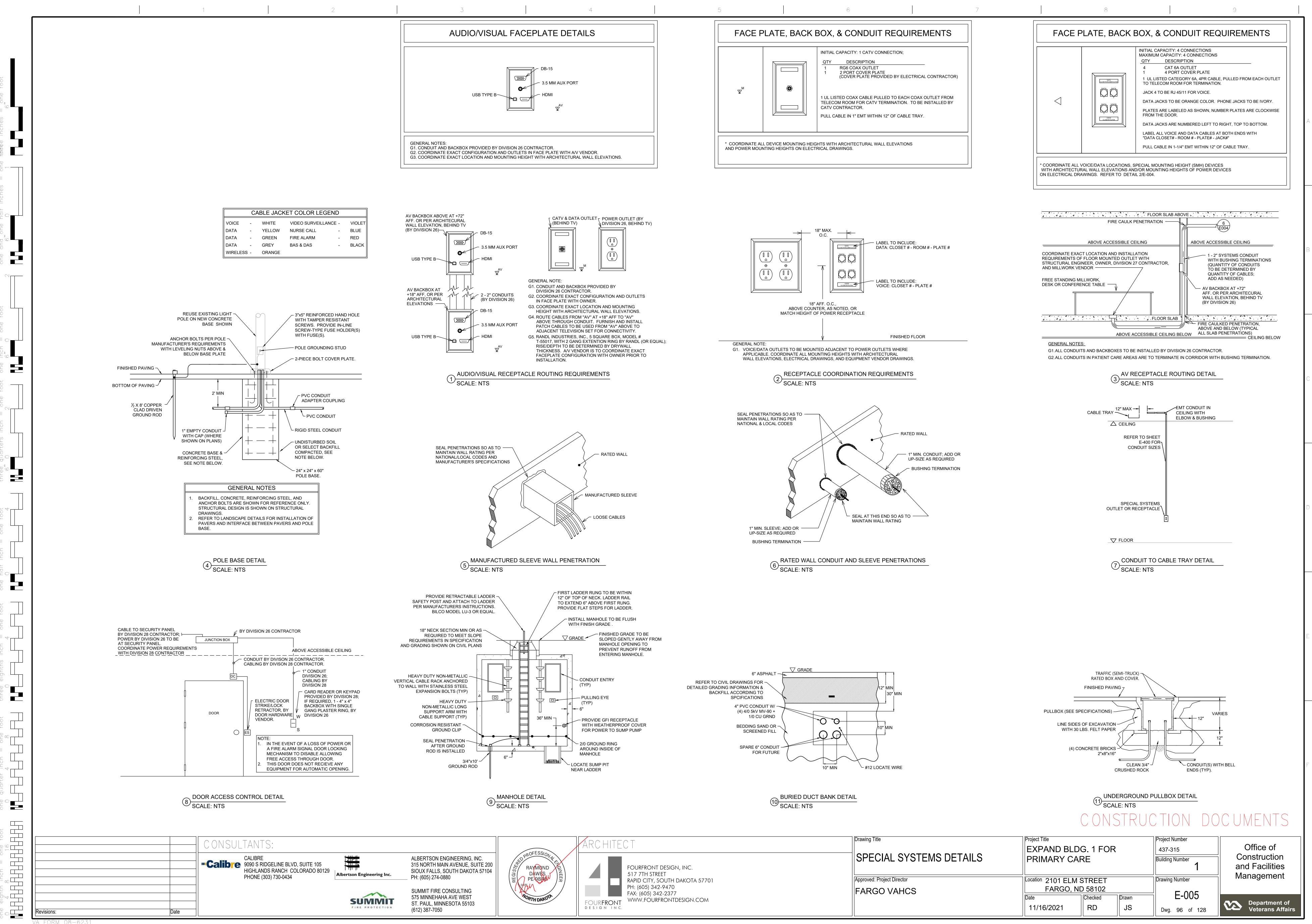
 Drawing Title	Project Title	Project Number		
	EXPAND BL	437-315		
ELECTRICAL DETAILS	PRIMARY C	ARE		Building Number
Approved: Project Director	Location 2101 ELN	<b>I STREET</b>		Drawing Number
FARGO VAHCS	FARGO,			
	Date	Checked	Drawn	E-004
	11/16/2021	RD	JS	Dwg. 95 of 128

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Department of Veterans Affairs

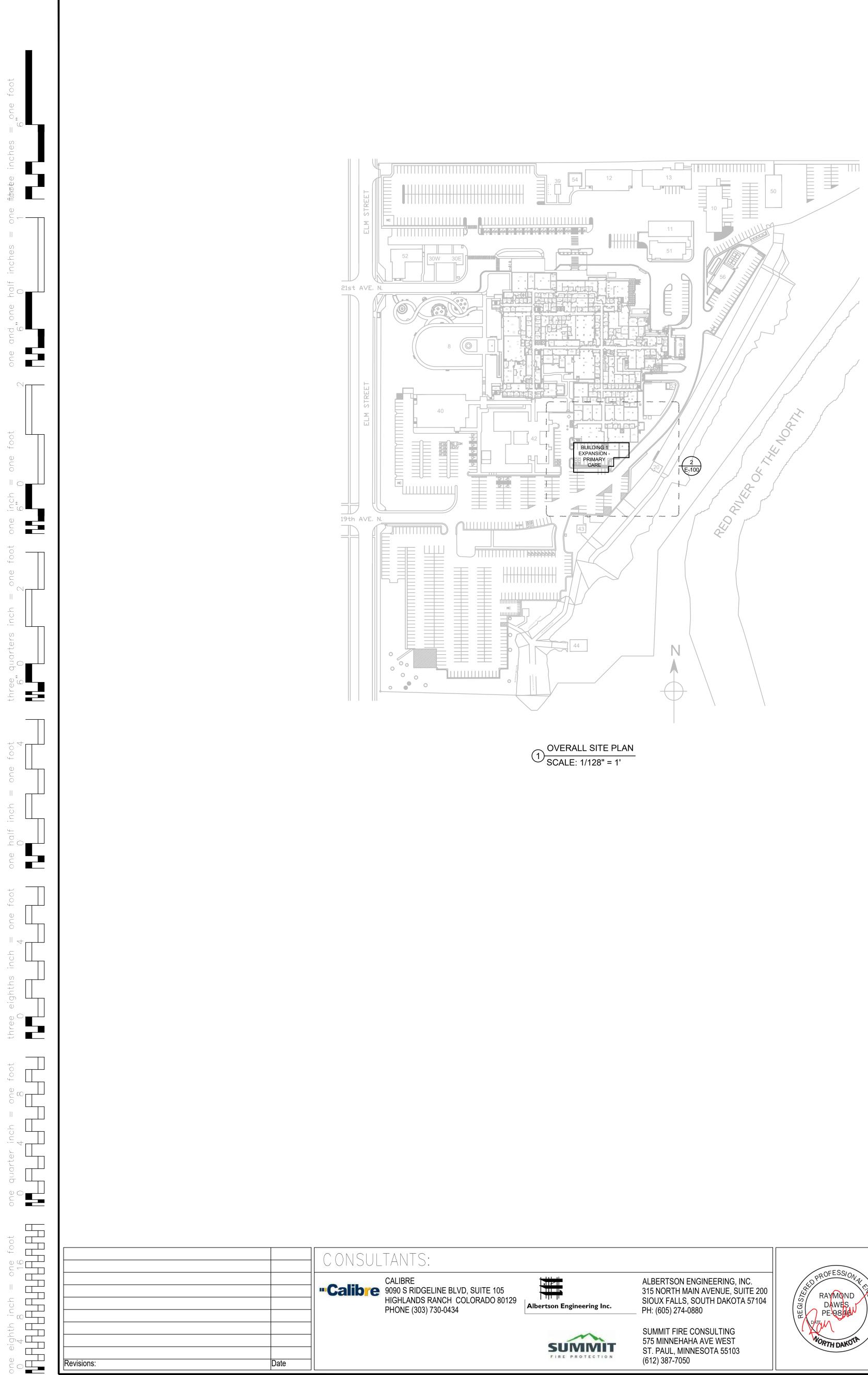
CABLE JACKET COLOR LEGEND										
VOICE	-	WHITE	VIDEO SURVEILL/	ANCE -	VIOLET					
DATA	-	YELLOW	NURSE CALL	-	BLUE					
DATA	-	GREEN	FIRE ALARM	-	RED					
DATA	-	GREY	BAS & DAS	-	BLACK					
	SS -	ORANGE								

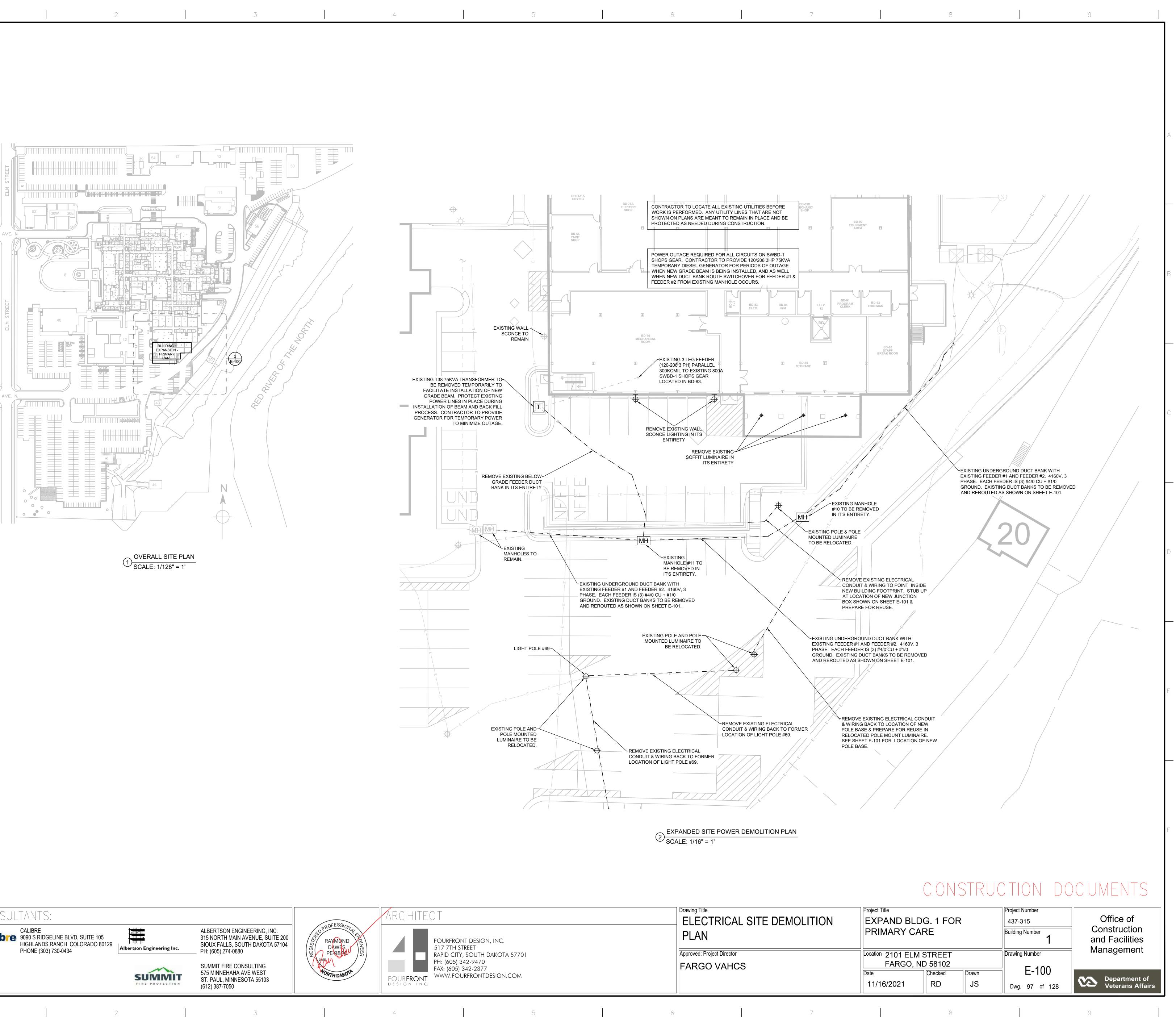






Drawing Title	Project Title			Project Number
	EXPAND BL	437-315		
SPECIAL SYSTEMS DETAILS	PRIMARY C	ARE		Building Number
Approved: Project Director	Location 2101 EL	MSTREET		Drawing Number
FARGO VAHCS		ND 58102		
	Date	Checked	Drawn	E-00
	11/16/2021	RD	JS	Dwg. 96 o

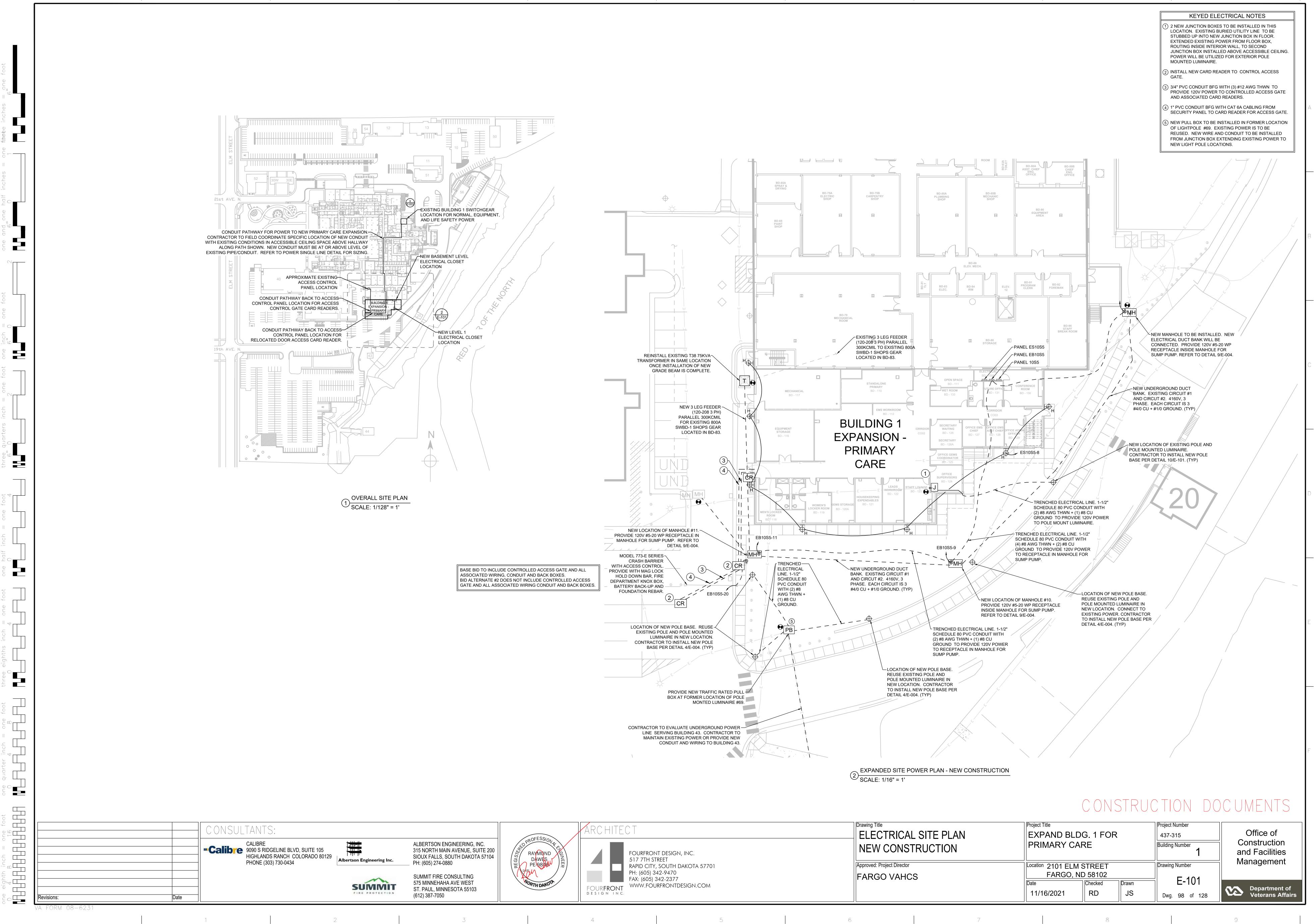


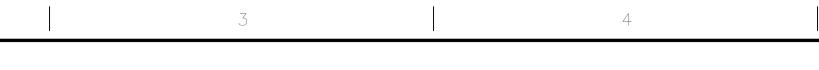






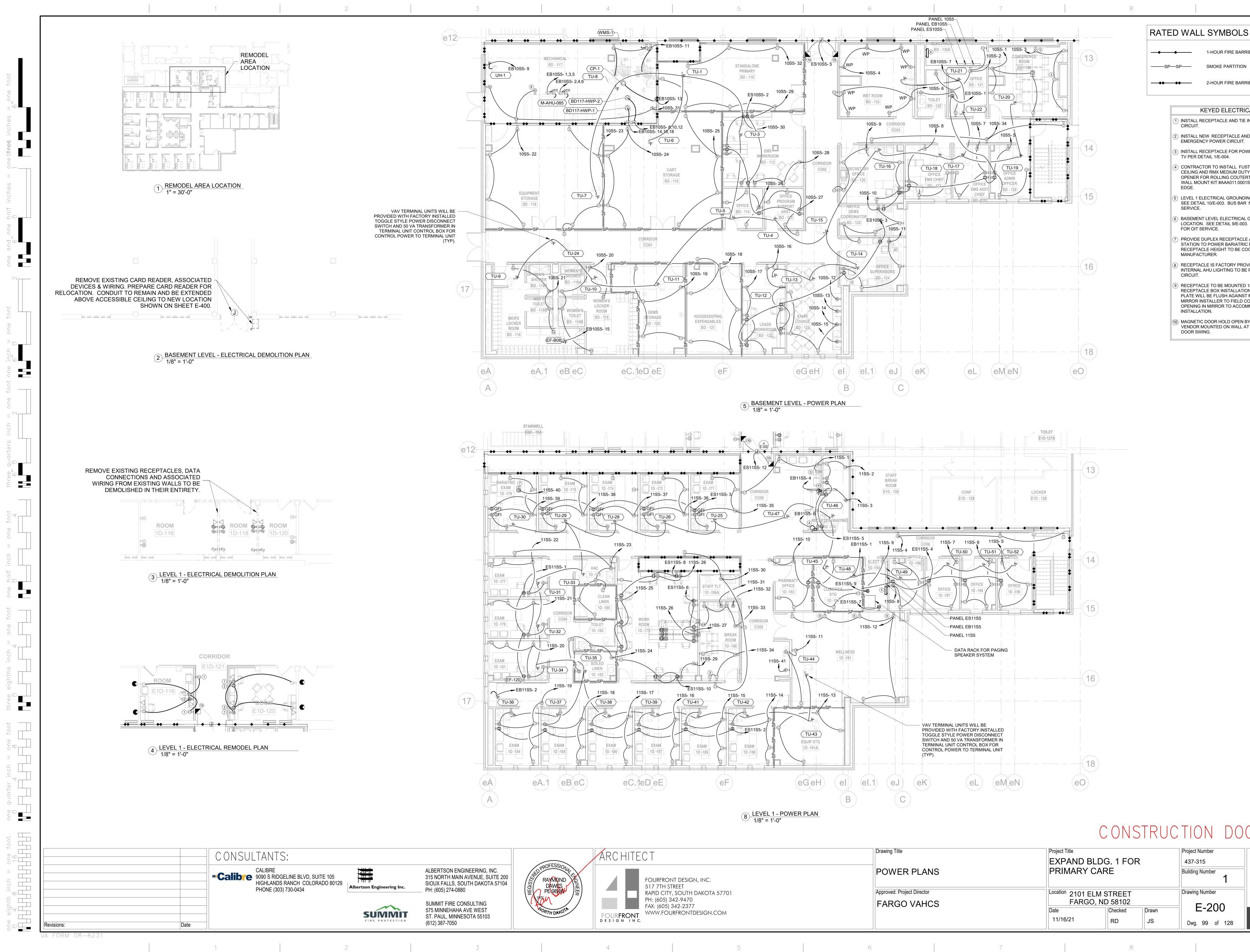
ELECTRICAL SITE DEMOLITION PLAN	Project Title EXPAND BLD PRIMARY CAI	Project Number 437-315 Building Number		
Approved: Project Director FARGO VAHCS	Location 2101 ELM FARGO, NI Date		Drawn	Drawing Number
	11/16/2021	RD	JS	Dwg. 97 c







Drawing Title ELECTRICAL SITE PLAN NEW CONSTRUCTION	Project Title EXPAND BL PRIMARY C	Project Number 437-315 Building Number		
Approved: Project Director	Location 2101 ELI	Drawing Number		
FARGO VAHCS	FARGO,	ND 58102		
	Date	Checked	Drawn	= E-1
	11/16/2021	RD	JS	Dwg. 98 0



# CONSTRUCTION DOCUMENTS

Drav	ving Title	Project Title					
		EXPAND B	LDG. 1 FO	R	437-315		
PC	OWER PLANS	PRIMARY (	CARE		Building Numb		
Арр	roved: Project Director		Location 2101 ELM STREET				
	ARGO VAHCS	FARGO, ND 58102					
		Date	Checked	Drawn	E-2		
		11/16/21	RD	JS	Dwg. 99		

1-HOUR FIRE BARRIER

SMOKE PARTITION

2-HOUR FIRE BARRIER

**KEYED ELECTRICAL NOTES** ) INSTALL RECEPTACLE AND TIE INTO EXISTING POWER

2) INSTALL NEW RECEPTACLE AND TIE INTO EXISTING

3) INSTALL RECEPTACLE FOR POWER BEHIND WALL MOUNT

(4) CONTRACTOR TO INSTALL FUSTAT ABOVE ACCESSIBLE CEILING AND RMX MEDIUM DUTY COMMERCIAL DOOR OPENER FOR ROLLING COUTERTOP GATE. PROVIDE WALL MOUNT KIT #AAA011.0001S, AND BOTTOM SENSING

(5) LEVEL 1 ELECTRICAL GROUNDING BUS BAR LOCATION. SEE DETAIL 10/E-003. BUS BAR NOT RATED FOR OIT

6) BASEMENT LEVEL ELECTRICAL GROUNDING BUS BAR LOCATION. SEE DETAIL 9/E-003. BUS BAR NOT RATED

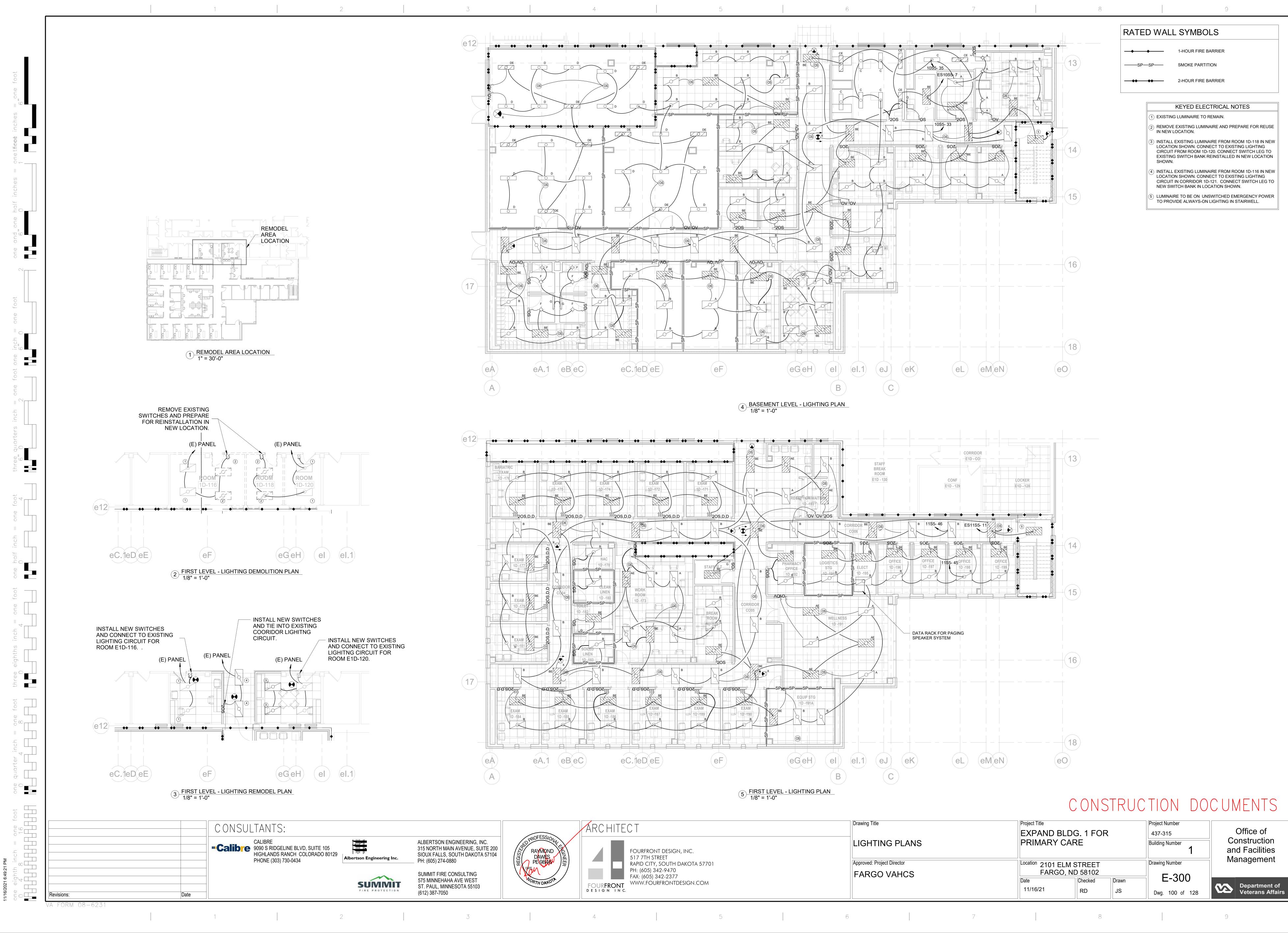
PROVIDE DUPLEX RECEPTACLE AT LIFT DOCKING STATION TO POWER BARIATRIC PATIENT LIFT. RECEPTACLE HEIGHT TO BE COORDINATED WITH LIFT

(8) RECEPTACLE IS FACTORY PROVIDED. POWER FOR INTERNAL AHU LIGHTING TO BE PROVIDED BY THIS

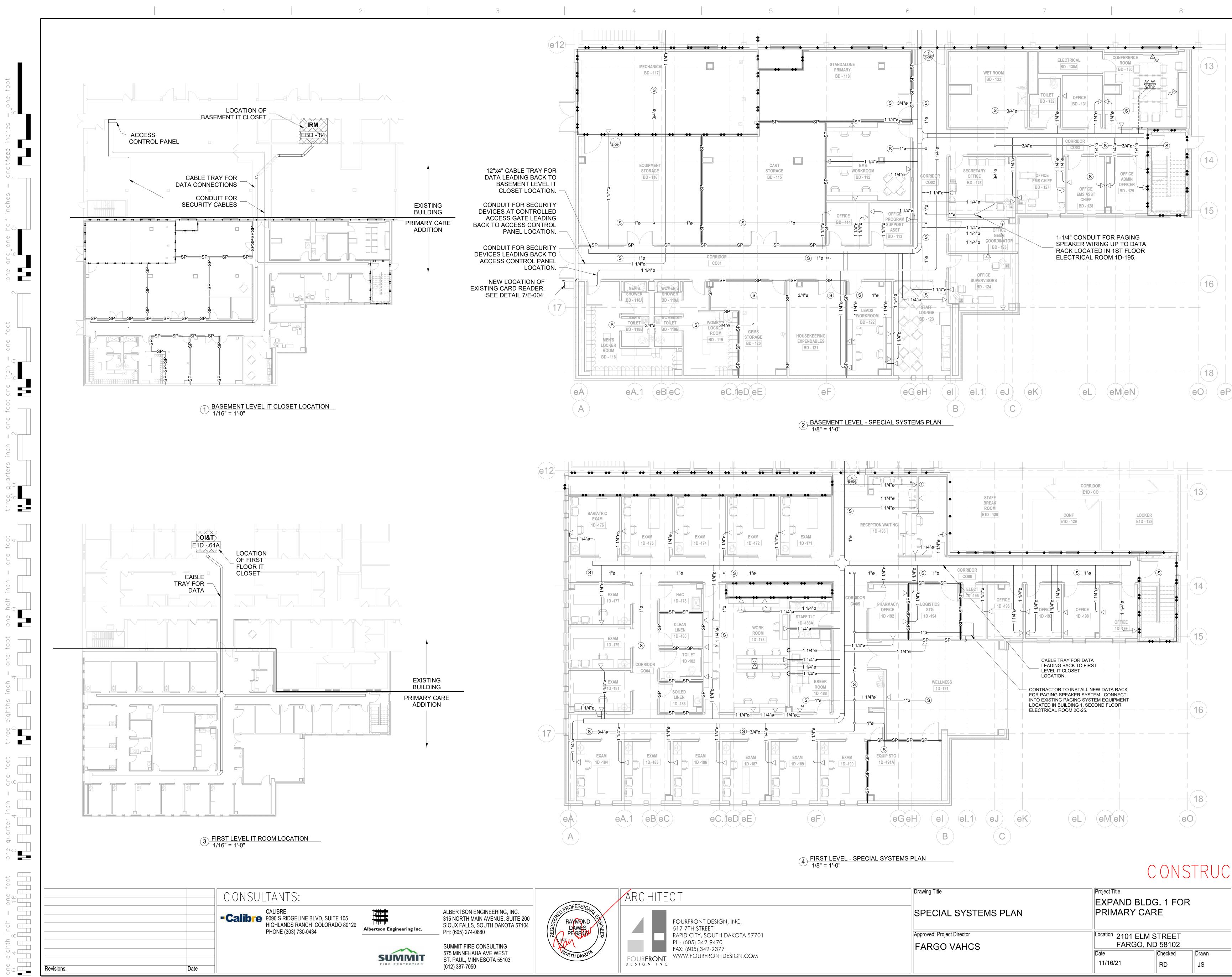
9 RECEPTACLE TO BE MOUNTED 18" AFF. COORDINATE RECEPTACLE BOX INSTALLATION DEPTH SO THAT COVER PLATE WILL BE FLUSH AGAINST MIRROR SURFACE. MIRROR INSTALLER TO FIELD COORDINATE AND PROVIDE OPENING IN MIRROR TO ACCOMMODATE RECEPTACLE

10) MAGNETIC DOOR HOLD OPEN BY DOOR HARDWARE VENDOR MOUNTED ON WALL AT LOCATION TO MEET





Drawing Title	Project Title		Project Numb
	EXPAND BL	_DG. 1 FOR	437-315
LIGHTING PLANS	PRIMARY C	Building Num	
Approved: Project Director	Location 2101 EL	Drawing Num	
FARGO VAHCS	FARGO		
	Date	Checked Drawn	— E-:
	11/16/21	RD JS	Dwg. 10



VA FORM 08-6231

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Drawing Title	Project Title		Project Numb
SPECIAL SYSTEMS PLAN	EXPAND E PRIMARY	BLDG. 1 FOR CARE	437-315 Building Num
Approved: Project Director FARGO VAHCS	Location 2101 E FARG Date	Drawing Num	
	11/16/21	RD JS	Dwg. 10 <sup>4</sup>

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# CONSTRUCTION DOCUMENTS

**KEYED ELECTRICAL NOTES** ) TELEVISION WALL RECEPTACLE. SEE FACE PLATE, BACK BOX AND CONDUIT REQUIREMENT DETAIL ON SHEET E-004.



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AC	ALTERNATING CURRENT	MECH	MECHANICAL
ADJ.	ADJUSTABLE	MFG	MANUFACTURER
AHJ	AUTHORITY HAVING JURISDICTION	MIN	MINIMUM
AHU	AIR HANDLING UNIT	MIN	MINUTE
AS	AIR SEPARATOR	mm	MILLIMETER
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	MPS	MEDIUM PRESSURE STEAM
BHP	BRAKE HORSEPOWER	MT	MOISTURE (HUMIDITY) TRANSM
BMS	BUILDING MANAGEMENT SYSTEM	MV	MANUAL VENT
CALC	CALCULATED	N.C.	NORMALLY CLOSED
CC	CHILLED WATER COOLING COIL - AHU	NC	NOISE CRITERIA LEVEL
CD	CONDENSATE DRAIN	NFPA	NATIONAL FIRE PROTECTION A
CFM	CUBIC FEET PER MINUTE	NG	NATURAL GAS
CHR	CHILLED WATER RETURN	N.O.	NORMALLY OPEN
CHS	CHILLED WATER SUPPLY	NPT	NATIONAL PIPE THREAD
CHWR	CHILLED WATER RETURN	OA	OUTSIDE AIR
COEF	CHILLED WATER SUPPLY	OAT	OUTSIDE AIR TEMPERATURE
	CENTERLINE	ORD	OVERFLOW ROOF DRAIN
	CLEANOUT	OSA	OUTSIDE AIR
	COEFFICIENT	OSHA	OCCUPATIONAL SAFETY AND H
	COMMUNICATION LINK	Pa	PASCAL
COND	CONDENSATION	PC	PUMPED CONDENSATE
CONFIG	CONFIGURED	PC	PREHEAT STEAM COIL - AHU
COR	CONTRACTING OFFICER'S REPRESENTATIVE	PD	PRESSURE DROP
CNTRL.	CONTROL	PDS	PRESSURE DIFFERENTIAL SEN
CP	CONDENSATE PUMP	PH	PHASE
CPVC	CHLORINATED POLYVINYL CHLORIDE	PHWR	PERIMETER HEAT WATER RET
CR	CONDENSATE RETURN	PHWS	PERIMETER HEAT WATER SUP
CV	CONTROL VALVE	PI	PROPORTIONAL INTEGRAL
CV	FLOW COEFFICIENT	PID	PROPORTIONAL INTEGRAL DE
DAMP.	DAMPER	PRESS.	PRESSURE
DAT	DISCHARGE AIR TEMPERATURE	PSH	HIGH PRESSURE SWITCH
DB	DRY BULB	PSIG	POUNDS PER SQUARE INCH - (
DC	DIRECT CURRENT	PSL	LOW PRESSURE SWITCH
DCW	DOMESTIC COLD WATER	QUANT.	QUANTITY
DEG	DEGREES	R	RADIUS
DHR	DOMESTIC HOT WATER RETURN	R	RETURN
DHW	DOMESTIC HOT WATER	RA	RETURN AIR
DIFF.	DIFFERENTIAL	RC	REHEAT STEAM COIL - AHU
DIST	DISTRUBUTION	RD	ROOF DRAIN
DS	DOWNSPOUT	RE	RESIDENT ENGINEER
DSP	DEHUMIDIFICATION SET POINT	REQ'D	REQUIRED
DWV	DRAIN, WASTE AND VENT	RH	RELATIVE HUMIDITY
(E)	EXISTING	RHWR	RE-HEAT WATER RETURN
EA	EXHAUST AIR	RHWS	RE-HEAT WATER SUPPLY
ECC	ENERGY CONTROL CENTER	RP	RADIANT PANEL - CEILING
ELECT.	ELECTRICAL	RPM	REVOLUTIONS PER MINUTE
ELEV	ELEVATION	S	SUPPLY
ENT	ENTERING	SA	SUPPLY AIR
ERC	ENERGY RECOVERY COIL - AHU	SAN	SANITARY
ES	END SWITCH	SD	SMOKE DAMPER
EWC	ELECTRIC WATER COOLER	SF	FAN SECTION - AHU
F	FAHRENHEIT	SF	SQUARE FEET
FD	FLOOR DRAIN	SMACNA	SHEET METAL AND AIR CONDIT
FILT.	FILTER	SP	STATIC PRESSURE
FPM	FEET PER MINUTE	SPEC	SPECIFICATION
FT	FEET	SS	
FT	FIN TUBE BASEBOARD RADIATOR	SST	
GAL	GALLONS	STM-HP	
GALV	GALVANIZED	STM-LP	
G.C.	GENERAL CONTRACTOR	STM-MP	
GPM GT H HP	GALLONS PER MINUTE GLYCOL TANK HEIGHT HUMIDIFIER - AHU HORSEPOWER	SUH SV SV T TEMP.	STEAM UNIT HEATER STEAM VALVE STEAM VENT THERMOSTAT TEMPERATURE
HPS	HIGH PRESSURE STEAM	TSP	TOTAL STATIC PRESSURE
HR	HOUR	TT	TEMPERATURE SENSOR/TRAN
HRCR	HEAT RECOVERY RETURN	TU	TERMINAL UNIT
HRCS	HEAT RECOVERY SUPPLY	TYP	TYPICAL
HRP	HEAT RECOVERY PUMP	UH	UNIT HEATER
HSP	HUMIDIFICATION SET POINT	V	VENT
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	V	VOLTS
HX	HEAT EXCHANGER	VAV	VARIABLE AIR VOLUME
Hz	HERTZ	VFD	VARIABLE FREQUENCY DRIVE
IBC	INTERNATIONAL BUILDING CODE	VSMC	VARIABLE SPEED MOTOR CON
ICVAMC	IOWA CITY VETERANS AFFAIRS MEDICAL CENTER	VTR	VENT THROUGH ROOF
IECC	INTERNAIONAL ENERGY CONSERVATION CODE	W	WIDTH
IFB	INTEGRAL FACE AND BYPASS	W/	WITH
IMC	INTERNATIONAL MECHANICAL CODE	WB	WET BULB
I/O	INPUT/OUTPUT	WG	INCHES OF WATER
IPC K.O. L LBS LPS	INTERNATIONAL PLUMBING CODE COMMANDING OFFICER LENGTH POUNDS LOW PRESSURE STEAM	ZAT ZC	ZONE AIR TEMPERATURE VALVE OR DAMPER CONTROLL
LWA MAX MBH MC MD	SOUND POWER LEVEL MAXIMUM THOUSAND BRITISH THERMAL UNITS PER HOUR MECHANICAL CONTRACTOR MOTORIZED DAMPER		

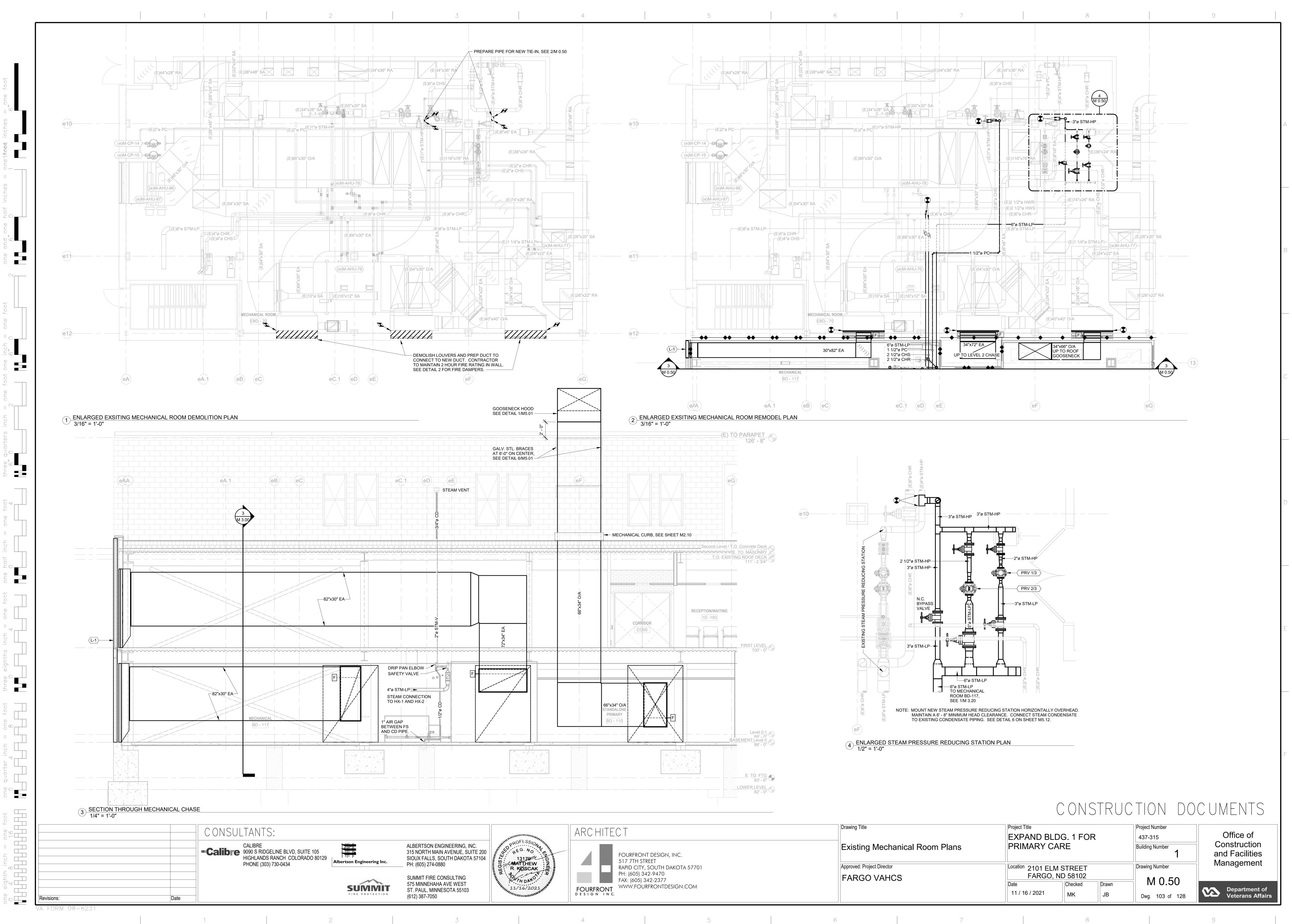
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2021 11:05:41 AM <pre>ceighth inch =     4     8     1000     100</pre>			CALIBRE 9090 S RIDGELINE BLVD, SUITE 105 HIGHLANDS RANCH COLORADO 80129 PHONE (303) 730-0434	Albertson Engineering I
11/16/2021	Revisions:	Date		PIRE PROIECTI
	VA FORM 08-6231			

3		4   5		I	6 7	8
	Z SA Z	HVAC / MECHANI SUPPLY AIR DUCT FROM AHU				MECHANICAL S
	Z S/A Z	SUPPLY AIR DUCT FROM VAV		VANED ELBOW (PROVIDE A RECTANGULAR ELBOWS W SYMBOL IS MISSING)	ILL SQUARE OR ITH VANES EVEN IF	M 0.00 SYMBOLS, LEGENDS AND AB
	↓ ↓↓ ∠ F/A ∠	FRESH AIR DUCT FROM EXTERIOR		VANED RADIUS ELBOW (SH	IORT RADIUS)	M 0.50Existing Mechanical Room PlanM 1.00Basement Hydronic Piping Plan
	$\begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix}$	RETURN AIR DUCT		RADIUS ELBOW (SHORT RA	JUUS)	M 1.01 First Floor Hydronic Piping Plan M 2.00 Basement HVAC Plan
TEAM ) TRANSMITTER				NEW DUCT (INSIDE DIMENS	SIONS: WIDTH / DEPTH)	M 2.01 First Floor HVAC Plan M 2.10 Mechanical Roof Plan M 3.00 Mechanical Sections
EL	2 <b>EA</b> 2	EXHAUST AIR DUCT		SUPPLY DUCT UP		M 3.10 HVAC Isometric Views M 3.11 Hydronic Piping Isometric Views
ECTION ASSOCIATION	HWS	HOT WATER SUPPLY	2 10/8	SUPPLY DUCT DOWN		M 3.20 Enlarged Mechanical Room Plan M 4.00 Mechanical Schedules
AD	——HWR——	HOT WATER RETURN				M 4.01Mechanical SchedulesM 5.00Mechanical Details - Building 1 -
ATURE	RHWS	REHEAT HOT WATER SUPPLY	2 10/8	RETURN/EXHAUST/RELIEF I		M 5.01 Mechanical Details - Building 1 - M 5.10 Mechanical Details - Building 1 - M 5.11 Mechanical Details - Building 1
AIN TY AND HEALTH ADMINISTRATION	——RHWR——	REHEAT HOT WATER RETURN	Z 10/8 /	RETURN/EXHAUST/RELIEF I	DUCT DOWN	M 5.11Mechanical Details - Building 1 -M 5.12Mechanical Details - Building 1 -M 6.01Piping and Instrumentation Diag
Ē	HRWS	HEAT RECOVERY WATER SUPPLY		MOTORIZED DAMPER W/ ACCESS DOOR		M 6.02 Control Diagrams M 6.03 Control Diagrams
	——HRWR——	HEAT RECOVERY WATER RETURN		FIRE DAMPER W/ ACCESS DOOR		
ITIAL SENSOR	CHS	CHILLED WATER SUPPLY		FIRE AND SMOKE DAMPER W/ ACCESS DOOR		
TER RETURN TER SUPPLY GRAL	——CHR——	CHILLED WATER RETURN		SMOKE DAMPER W/ ACCESS DOOR		
GRAL DERIVATIVE	RL	REFRIGERANT - LIQUID		BACK DRAFT DAMPER W/ ACCESS DOOR		<b>GENERAL MECHANICAL NOTES:</b>
TCH E INCH - GAUGE	——RS-———	REFRIGERANT - SUCTION		MANUAL VOLUME DAMPER		ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 IN CODE (IMC), THE VHA HVAC AND MECHANICAL DESIGN N
ГСН	STM-LP	LOW PRESSURE STEAM	-Å-	MODULATING CONTROL VA	LVE	AND GUIDELINES, AND THE AUTHORITIES HAVING JURIS
	STM-MP	MEDIUM PRESSURE STEAM	_h_	PIPE ELBOW		PRIOR TO BIDDING WORK, CONTRACTOR SHALL VISIT TI THEMSELVES WITH THE EXISTING CONDITIONS. THESE FROM PREVIOUS PROJECT RECORD DRAWINGS AND TH
- AHU	STM-HP	HIGH PRESSURE STEAM	f	PIPE DOWN		ALTHOUGH EVERY ATTEMPT HAS BEEN MADE TO INDICA LOCATION OF PROPOSED SYSTEMS, NOT ALL OFFSETS, CONNECTIONS, AND/OR CONDITIONS COULD BE VERIFIE
	CDR-L	LOW PRES. STEAM CONDENSATE RETURN	Ą	PIPE UP		COORDINATE WORK AND MAKE REQUIRED CHANGES TO AVOID CONFLICTS WITHOUT ANY INCREASED COST TO
URN			-i <del>q</del> +	PIPE TEE DOWN		CONTRACTOR IS TO VERIFY ALL DRAWING INFORMATIO MINOR CHANGES IN ROUTING ARE EXPECTED. WHERE
PLY LING	——CDR-M——	MEDIUM PRES. STEAM CONDENSATE RETURN		WALL MOUNTED EXHAUST	FAN	GREATLY FROM THE PLANS CONTRACTOR SHALL CONT OFFICER'S REPRESENTATIVE (COR) IMMEDIATELY BEFC EXTRA CONSIDERATION WILL BE GIVEN FOR IGNORANC
INUTE	——CDR-H——	HIGH PRES. STEAM CONDENSATE RETURN				CONTRACTOR IS TO COORDINATE WITH THE COR FOR E
	——-PC-——	PUMPED STEAM CONDENSATE RETURN		VARIABLE AIR VOLUME BO		ANY DEMOLISHED ITEMS OR EQUIPMENT. CONTRACTOR WHICH ITEMS OR EQUIPMENT SHALL BE TURNED OVER PROPERTY OF THE CONTRACTOR TO BE REMOVED FRC
	-8-	STEAM BUCKET TRAP		DUCT HOT WATER REHEAT		EXCEPT WHERE INDICATED, ALL EQUIPMENT, MATERIAL INCORPORATED IN THE WORK SHALL BE NEW AND OF C
R CONDITIONING CONTRACTORS ASSOCIATION	-2-	FLOAT & THERMOSTATIC TRAP		HYDRONIC RADIANT HEATII	NG PANEL	SPECIFIED. ALL WORKMANSHIP SHALL BE FIRST-CLASS BY PERSONNEL SKILLED AND REGULARLY EMPLOYED IN
	-\$-	STEAM THERMOSTATIC TRAP	S-1 575	GRILLE, REGISTER, DIFFUS	ER TAG WITH CFM	ITEMS REUSED AND/OR RELOCATED SHALL BE BROUGH PRIOR TO BEING PLACED INTO SERVICE.
URE JRE	- <del>\_+</del> -	STRAINER	AHU-6	EQUIPMENT TAG WITH NUM	BER DESIGNATION	ALL WORK SHALL BE COORDINATED WITH ALL AFFECTE STARTING WORK. REWORK REQUIRED DUE TO COORDI DONE BY THE INSTALLATION CONTRACTOR WITHOUT IN
SSURE	⊣⊢	UNION	()	THERMOSTAT		OWNER. SYSTEMS DESIGNATED TO BE PROVIDED AND INSTALLE
		BALL VALVE	TS	TEMPERATURE SENSOR		DOCUMENTS ARE INTENDED TO BE COMPLETE AND OPE EVERYTHING ESSENTIAL FOR THE COMPLETION OF THE
	N.O. N.C.	GATE VALVE	P	PRESSURE SENSOR		READY FOR NORMAL AND PROPER OPERATION. THIS IN MATERIALS NOT DIRECTLY SHOWN ON THE DRAWINGS BUT NECESSARY FOR THE PROPER OPERATION OF THE
URE OR/TRANSMITTER	-181-	GLOBE VALVE	SP	DIFFERENTIAL PRESSURE S	SENSOR	THE PROJECT IS REQUIRED TO BE PHASED AND AREAS THROUGHOUT THE PROJECT. SEE APPROPRIATE SECT
		CHECK VALVE	H	HUMIDITY SENSOR		IN GENERAL IT IS THE INTENT OF THESE DRAWINGS:
F	-Ĝ-	MODULATING CONTROL VALVE		SUPPLY DIFFUSER		ITEMS INSTALLED WHERE THE STRUCTURE IS EXPOSED POSSIBLE. ALL VALVES AND CONTROL DEVICES SHOUL POSSIBLE OR WHERE IT WILL BE MAINTAINABLE FROM A
TOR CONTROLLER	-1 <b>6</b> 1-	PRESSURE REDUCING VALVE		LINEAR SLOT SUPPLY DIFF	USER	COORDINATION WILL BE REQUIRED IN ORDER TO AVOID INSTALLATIONS SHALL NOT BE LOWER THAN EXISTING
F	-@-	MANUAL BALANCING / SHUT-OFF VALVE		RETURN GRILLE		ALL SUPPLY DUCTWORK BETWEEN AHU AND VAV'S SHA CLASS. ALL DUCT TO BE GALVANIZED STEEL.
		CONCENTRIC PIPE REDUCER		EXHAUST GRILLE		ALL NEW MECHANICAL PIPING SHALL MATCH EXISTING S BLACK IRON OR COPPER. NOTIFY COR AND ENGINEER
JRE ONTROLLER	-2-					THESE MATERIALS. ALL NEW MECHANICAL PIPING SHAI THICKNESS SHALL MATCH THE EXISTING SYSTEMS. CO REQUIRED. CONTRACTOR IS TO IDENTIFY ANY LOCATION
UNTROLLER		ECCENTRIC PIPE REDUCER	2	MECHANICAL PLAN NOTE		CORE DRILLING. ALL SQUARE THROAT DUCT ELBOWS WITH ANY DIMENS
	-+ <sup>‡</sup> +-	TEE	Ш 	DUCT FLEX CONNECTOR		HAVE TURNING VANES, WHETHER SHOWN ON THE PLAN COORDINATE WITH GC AND COR FOR WORK WITHIN SP.
	Ø H □	PRESSURE GAUGE	<b>∐</b> ++++ <b>⊠</b>	FLEX DUCT		OCCUPIED AREAS DURING CONSTRUCTION.
		TEMPERATURE GAUGE	\$	POINT OF CONNECTION		MANUFACTURERS/MODEL NUMBERS INDICATED ON DRA OTHER MANUFACTURERS/MODEL NUMBERS WILL BE AC MEET SPECIFICATIONS AND PERFORMANCE REQUIREM
		SHELL AND TUBE HEAT EXCHANGER	<b>~</b> ~~	POINT OF DISCONNECTION		DESIGN.
		STEAM CONDENSATE PUMP		TO BE DEMOLISHED		
		STEAM FLASH TANK	<b></b>	ONE HOUR FIRE BARRIER		
		EXPANSION TANK	SPSP	SMOKE PARTITION		
	→	LIQUID FLOW DIRECTION	<b></b>	TWO HOUR FIRE BARRIER		CONSTRUCTION
	_ <b>→→</b>	DIRECTION OF AIR FLOW			Drawing Title	
	ROFESSIO	ARCHITECT			Drawing Title SYMBOLS, LEGENDS AND	Project Title Project Number 437-315 PDIMAADX (OADE
	13179 C 0	FOURFRONT DESIGN, INC.			ABBREVIATIONS	PRIMARY CARE Building Number
PH: (605) 274-0880	MATTHEW Z KOSCAK	517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PH: (605) 342-9470			Approved: Project Director	Location 2101 ELM STREET FARGO, ND 58102
575 MINNEHAHA AVE WEST     575 MINNEHAHA AVE WEST       ST. PAUL, MINNESOTA 55103     1	1/16/2021	FAX: (605) 342-2377 FOURFRONT DESIGN INC.			FARGO VAHCS	Date Checked Drawn M O.O
(612) 387-7050						MK JB Dwg. 102 c

Date		(612) 387-7050					IVIN	JD	Dwg. 102 of 128	Veterans Affairs	
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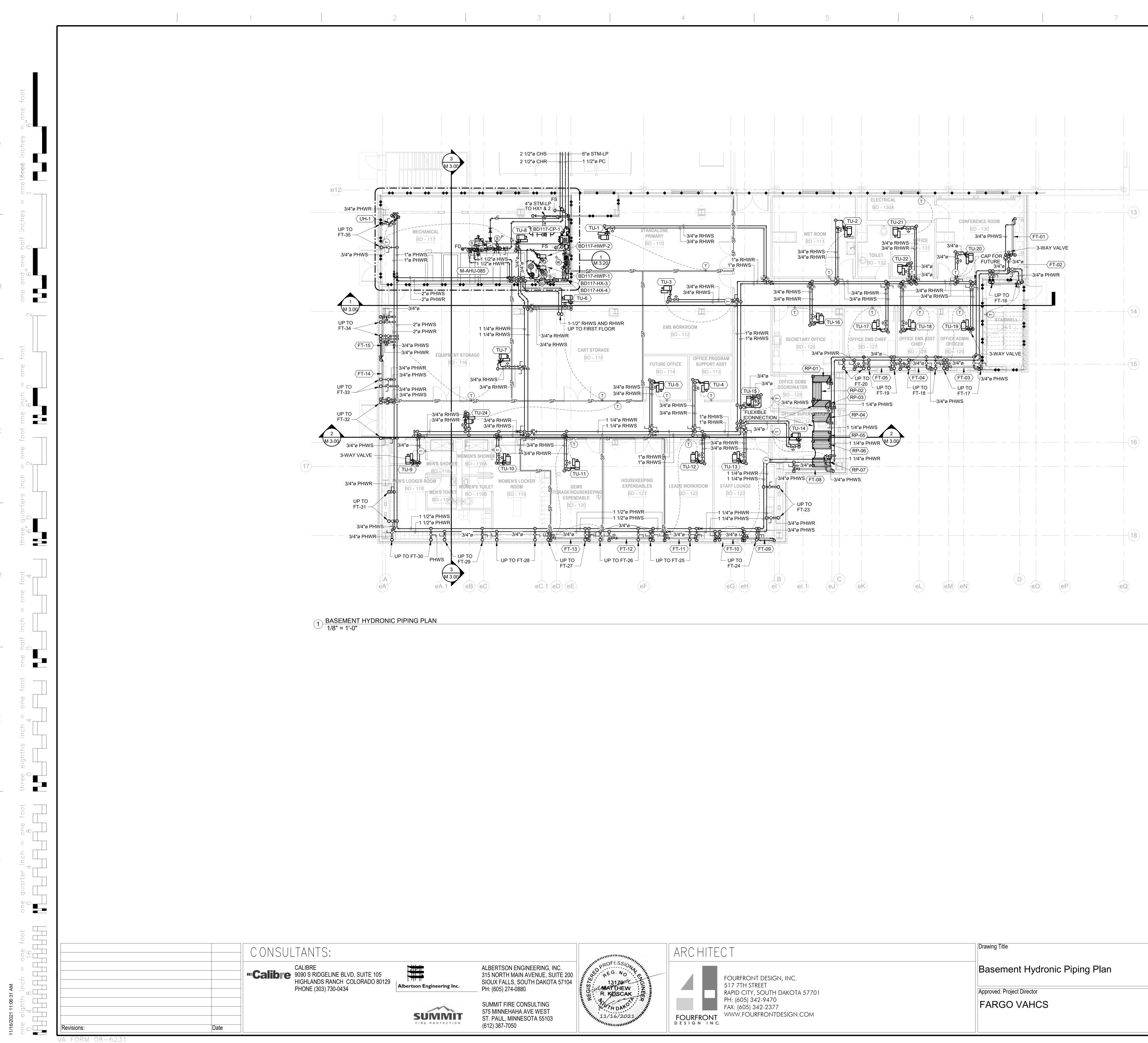
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SHEET INDEX	
ABBREVIATIONS Plans Plan Plan	
ews Plan and Sections	A
g 1 - Dry Side 1 g 1 - Dry Side 2 g 1 - Wet Side 1 g 1 - Wet Side 2 g 1 - Wet Side 3 Diagram (PID)	
	В
8 INTERNATIONAL MECHANICAL IN MANUAL 2018 SPECIFICATIONS RISDICTION (AHJ). T THE SITE AND FAMILIARIZE	
SE DRAWINGS WERE DEVELOPED THROUGH SITE INVESTIGATION. DICATE THE EXACT ROUTING AND TS, REQUIRED FITTINGS, IFIED. THE CONTRACTOR SHALL TO THE ROUTING IN ORDER TO TO THE OWNER.	
TION PRIOR TO STARTING WORK. RE EXISTING CONDITIONS VARY ONTACT THE CONTRACTING EFORE STARTING WORK. NO INCE OF EXISTING CONDITIONS. OR DIRECTION AND HANDLING OF TOR IS TO VERIFY WITH COR	С
ER TO THE VA OR SHALL BECOME ROM JOB SITE. RIALS, AND ARTICLES OF COMPARABLE QUALITY AS	
SS AND SHALL BE PERFORMED D IN THEIR RESPECTIVE TRADES. JGHT TO LIKE NEW CONDITION CTED TRADES PRIOR TO	
RDINATION ISSUES SHALL BE T INCREASED COST TO THE LLED WITHIN THESE CONTRACT	D
OPERATIONAL. PROVIDE THE WORK TO MAKE THE SYSTEM S INCLUDES ALL WORK OR GS OR IN THE SPECIFICATIONS, THE SYSTEM. AS MUST BE KEPT IN OPERATION	
SED - INSTALLED AS HIGH AS DULD BE INSTALLED AS LOW AS M A LADDER OR LIFT. CLOSE	
OID ALL CONFLICTS. NEW NG UTILITIES. SHALL BE 4" STATIC PRESSURE	
NG SYSTEMS AND BE MADE OF ER FOR ANY DEVIATION FROM HALL BE INSULATED AND CORE DRILLING WILL BE ATIONS AND IS REPONSIBLE FOR	E
ENSIONS LARGER THAN 6" SHALL LANS OR NOT. SPACES SO AS TO NOT DISRUPT	
DRAWINGS ARE BASIS OF DESIGN. ACCEPTED PROVIDING THEY EMENTS OF THE BASIS OF	
	F





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 Drawing Title	Project Title	Project Title			
	EXPAND BL	DG. 1 FOI	२	437-315	
Existing Mechanical Room Plans	PRIMARY C	Building Numbe			
Approved: Project Director	Location 2101 ELN	A STREET		Drawing Numbe	
FARGO VAHCS	FARGO, ND 58102				
	Date	Checked	Drawn	─ M 0.	
	11 / 16 / 2021	МК	JB	Dwg. 103	



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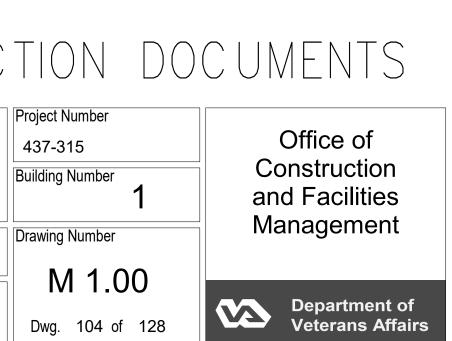
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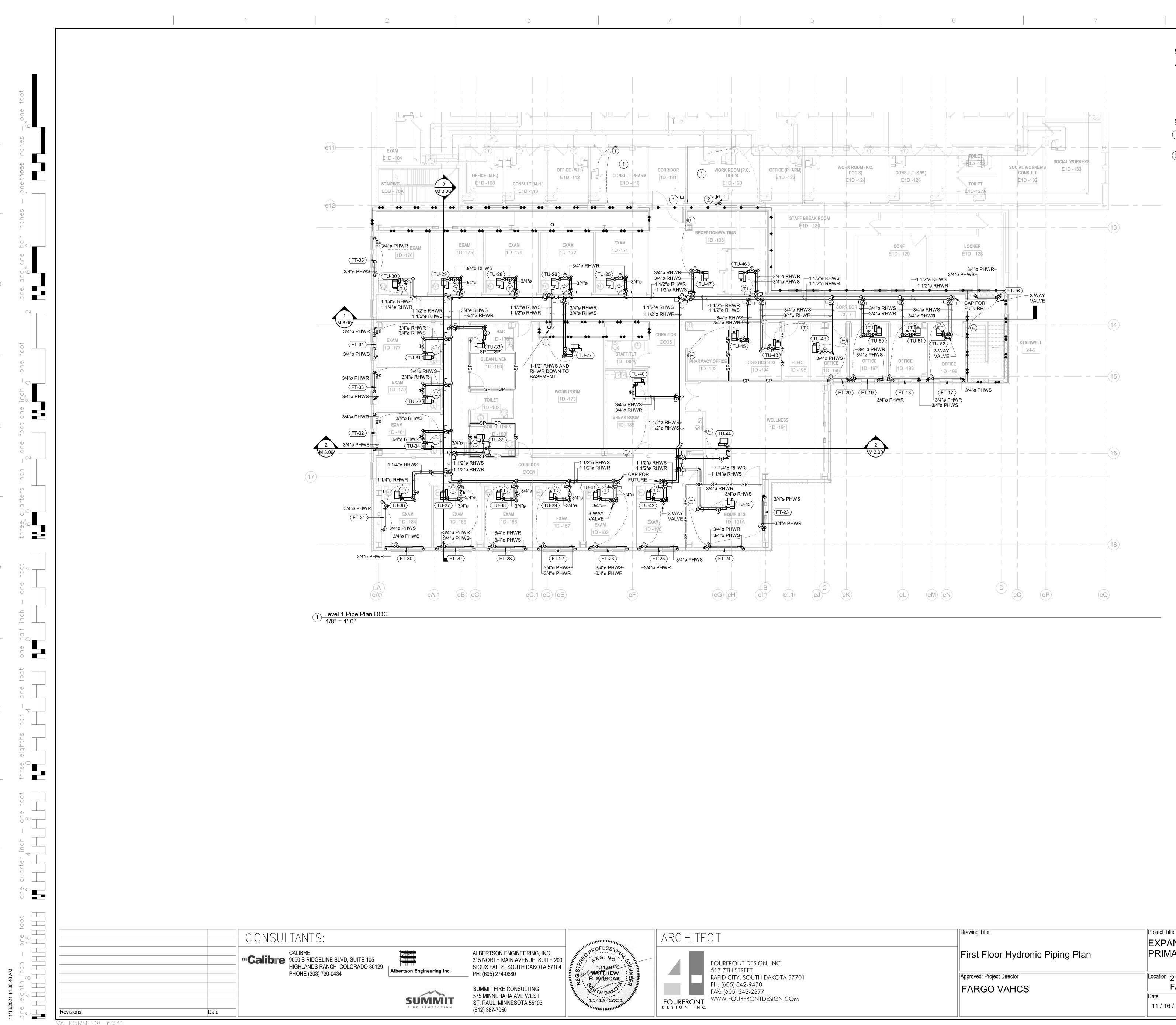
### **GENERAL NOTES**

A. ALL BRANCH PIPE SIZES TO FIN-TUBE RADIATORS, RADIANT CEILING PANELS AND TERMINAL UNITS ARE 3/4"Ø PIPE, UNLESS NOTED OTHERWISE.

# CONSTRUCTION DOCUMENTS

 Drawing Title	Project Title	Project Number		
	EXPAND BL	DG. 1 FO	R	437-315
Basement Hydronic Piping Plan	PRIMARY C	Building Numbe		
Approved: Project Director	Location 2101 ELN	Drawing Numb		
FARGO VAHCS	FARGO,			
	Date	Checked	Drawn	─  M 1.
	11 / 16 / 2021	МК	JB	Dwg. 104





VA FORM 08-6231

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### **GENERAL NOTES**

A. ALL BRANCH PIPE SIZES TO FIN-TUBE RADIATORS AND TERMINAL UNITS ARE 3/4"Ø PIPE, UNLESS NOTED OTHERWISE.

### SPECIFIC NOTES

- 1. SEE 2/M 2.01 FOR DEMOLITION OF BASEBOARD, PIPING AND THERMOSTATS FOR THIS AREA.
- (2.) REROUTE PIPES AS NEEDED TO RECONNECT EXISTING FIN-TUBE RADIATOR.

## CONSTRUCTION DOCUMENTS

 First Flags Lindragia Dising Disa	EXPAND BLDG. 1 FOR PRIMARY CARE			437-315
First Floor Hydronic Piping Plan	PRIMARY CA			Building Numbe
Approved: Project Director	Location 2101 ELM	1 STREET		Drawing Numbe
FARGO VAHCS	FARGO, ND 58102			
	Date	Checked	Drawn	— M 1.
	11 / 16 / 2021	MK	JB	Dwg. 105

Project Number Office of Construction and Facilities Management .01 **Department of** Veterans Affairs 05 of 128