

4	:	5	6

ECTION SYMBOL LIST		FIRE PROTECTION MATERIAL LIST			
LL SYMBOLS MAY APPLY.	TAG NAME	DESCRIPTION	MANF. & MODEL		
	BF-1	2" TO 12" BUTTERFLY VALVE, 175 PSI WP, LUGGED OR GROOVED TYPE, IRON BODY, ALUMINUM BRONZE OR EPDM COATED IRON DISC, STAINLESS STEEL STEM AND SCREWS, EPDM SEAT, INTEGRAL MONITOR SWITCH, RATED FOR DEAD END SERVICE, UL/FM.	2" TO 12" BUTTERFLY VALVE: GEM 8000FP, TYCO BFV, KENNEDY 01, NIBCO LD3510-8, GD-4765-8N, VICTAULIC 705-W		
		1" TO 2-1/2" SLOW CLOSE BUTTERFLY VALVE, 175 PSI WP, BRONZE BODY, TYPE 304 STAINLESS STEEL ELASTOMER COATED DISK, SLOW CLOSE MANUAL OPERATOR WITH INTEGRAL TAMPER SWITCH, GROOVED OR THREADED ENDS. UL/FM.	1" TO 2 1/2" SLOW CLOSE BUTTERFLY VALVE: MILWAUKEE BB-SCS OR APPROVED EQUAL		
N PIPE	СК-16	2-1/2" TO 12" SWING CHECK VALVE, 175 PSI WP, FLANGED OR GROOVED, IRON BODY, BRONZE MOUNTED, BRONZE SEAT RING AND RUBBER CLAPPER FACING, SWING TYPE, UL/FM.	2 1/2" TO 12": VIKING D-1/G-1, TYCO CV-2, RELIABLE D OR G, KENNEDY 126A OR 426.		
		1-1/2" TO 2" CHECK VALVE, 250 PSI WP, THREADED OR GROOVED, BRASS BODY, BRASS SEAT AND RUBBER CLAPPER FACING, SPRING LOADED IN-LINE TYPE, UL/FM.	1 1/2" TO 2": VIKING L-1/K-1.		
TH MONITOR SWITCH DRAIN VALVE	FS-1	FLOW SWITCH - VANE TYPE FOR USE ON WET PIPE SPRINKLER SYSTEM TO DETECT A MINIMUM FLOW OF 10 GPM. TWO SINGLE POLE DOUBLE THROW SWITCHES WITH PNEUMATIC RETARD-ADJUSTABLE FROM 0-90 SECONDS WITH AUTOMATIC RESET, TAMPER RESISTANT METAL HOUSING. UL/FM.	SYSTEM SENSOR WFD SERIES, POTTER ELECTRIC VSR-F		
IRNISHED WITH BALL VALVE)	IT-1	1" INSPECTOR'S TEST AND DRAIN VALVE WITH INTEGRAL SIGHT GLASS, BALL VALVE WITH INTEGRAL LABELED PLATE SHOWING OFF-TEST-DRAIN POSITIONS. FURNISHED WITH TEST ORIFICE GIVING FLOW EQUIVALENT TO ONE SPRINKLER OF A TYPE HAVING THE SMALLEST ORIFICE INSTALLED ON THE SYSTEM, UL.	RELIABLE B W/1" BALL VALVE TYCO F350 AGF MODEL 1000		

FIRE PROTECTION ABBREVIATION KEY

PERSON:

JAMES LESSARD, P.E.

ERIC HENDERSON, P.E.

DAVE LARSON, RCDD

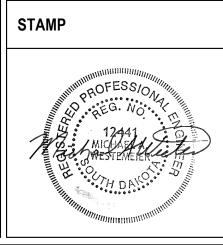
	NOTES
e f1fr, Aulic	NOTES 3, 7
e f1fr, Aulic	NOTES 3, 7, 8
e f1fr, Aulic	NOTES 3, 7
S-1,	NOTES 2, 3, 7

ARCHITECT/ENGINEER OF RECORD



4

Anderson Engineering of Minnesota, LLC 13605 1st Avenue North Suite 100 Plymouth, MN 55441 763-412-4000 (o) 763-412-4090 (f) www.ae-mn.com





MECHANICAL RENOVATION NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- 1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND
- REPORT ANY CONFLICTS BEFORE PROCEEDING. 2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN, VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
- 3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
- 4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS AREA OF WORK. 5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF
- ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING. 6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF
- CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING. 7. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH
- NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK. 8. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING
- CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE. 9. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY
- REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED. 10. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
- 11. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

MECHANICAL PHASING NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- 1. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO ARCHITECT'S INSTRUCTIONS FOR MORE DETAILS, PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF
- THE PHASING CRITERIA. 2. REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC.
- WITH AFFECTED ADJACENT AREAS. 3. PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE
- ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT 4. INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP
- ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT 5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

FIRE PROTECTION GENERAL

- 1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIE CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MAT FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT. 2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, B THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFA
- DESIGN. 3. FIRE PROTECTION PIPE ROUTING IS SHOWN FOR GENERAL LAYO NUMBER OF SPRINKLERS, PIPE SIZING, AND PIPE ROUTING.
- 4. CENTER SPRINKLERS IN CEILING TILES IN BOTH DIRECTIONS IN . 2'X4' CEILING TILES CENTERING USING A 2'X2' CEILING PATTERN
- 5. NEW SPRINKLERS SHALL BE QUICK RESPONSE TYPE, UNLESS O CONTRACTOR SHALL NOT MIX STANDARD RESPONSE SPRINKLE
- SPRINKLERS IN UNPARTITIONED SPACES. 6. PROVIDE COVERAGE ABOVE AND BELOW ALL DUCTWORK GREA 7. PROVIDE COVERAGE ABOVE AND BELOW FLOATING CEILINGS,

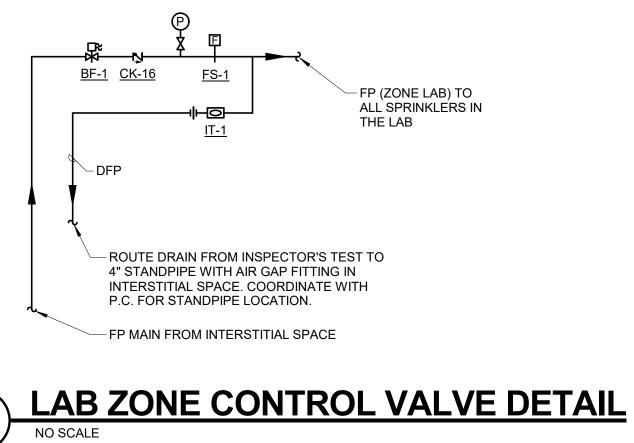
PLANS.

MECHANICAL GENERAL N

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, IN TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPI

- 1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALL DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED F
- INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSE CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT. 2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEA
- ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPE PHYSICALLY AT SITE, REVIEW ALL DRAWINGS, INCLUDING THOSE 3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO IN CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRI VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES.
- OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEE WITH FABRICATION OR EQUIPMENT ORDERS. 4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR
- REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING ACCESS. 5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RE COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT
- EXPENSE TO OTHERS. 6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIAT
- CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFER DESIGN. 7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRI AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LO
- MOUNTED DEVICES, OTHER THAN SPRINKLERS. 8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND
- 9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
- 10. SEAL ALL FLOOR, WALL AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE 11. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL,
- PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS. 12. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED
- OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT. 13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS,
- PIPING, DUCTWORK, ETC. 14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES. 15. MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR
- STARTERS, SWITCHES, AND DISCONNECTS. 16. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
- 17. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

SHEET INDEX - FIRE PROTECTION SHEET NO. SHEET TITLE FIRE PROTECTION COVER SHEET GROUND FLOOR PLAN - FIRE PROTECTION 1ST FLOOR PLAN - FIRE PROTECTION 2ND FLOOR PLAN - FIRE PROTECTION



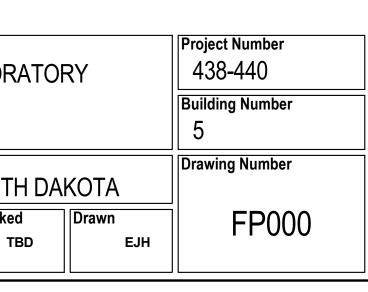
e of uction cilities	Drawing Title FIRE PROTECTION COVER SHEET	Phase CONSTRUCT DOCUMENTS		Project Title CONSTRUCT L/ ADDITION	ABOR/
Department terans	Approved:	FULLY SPRIN	IKLERED	Location SIOUX FALLS, S Issue Date 01/11/2019	SOUTH Checkec TE
	7	8		9	

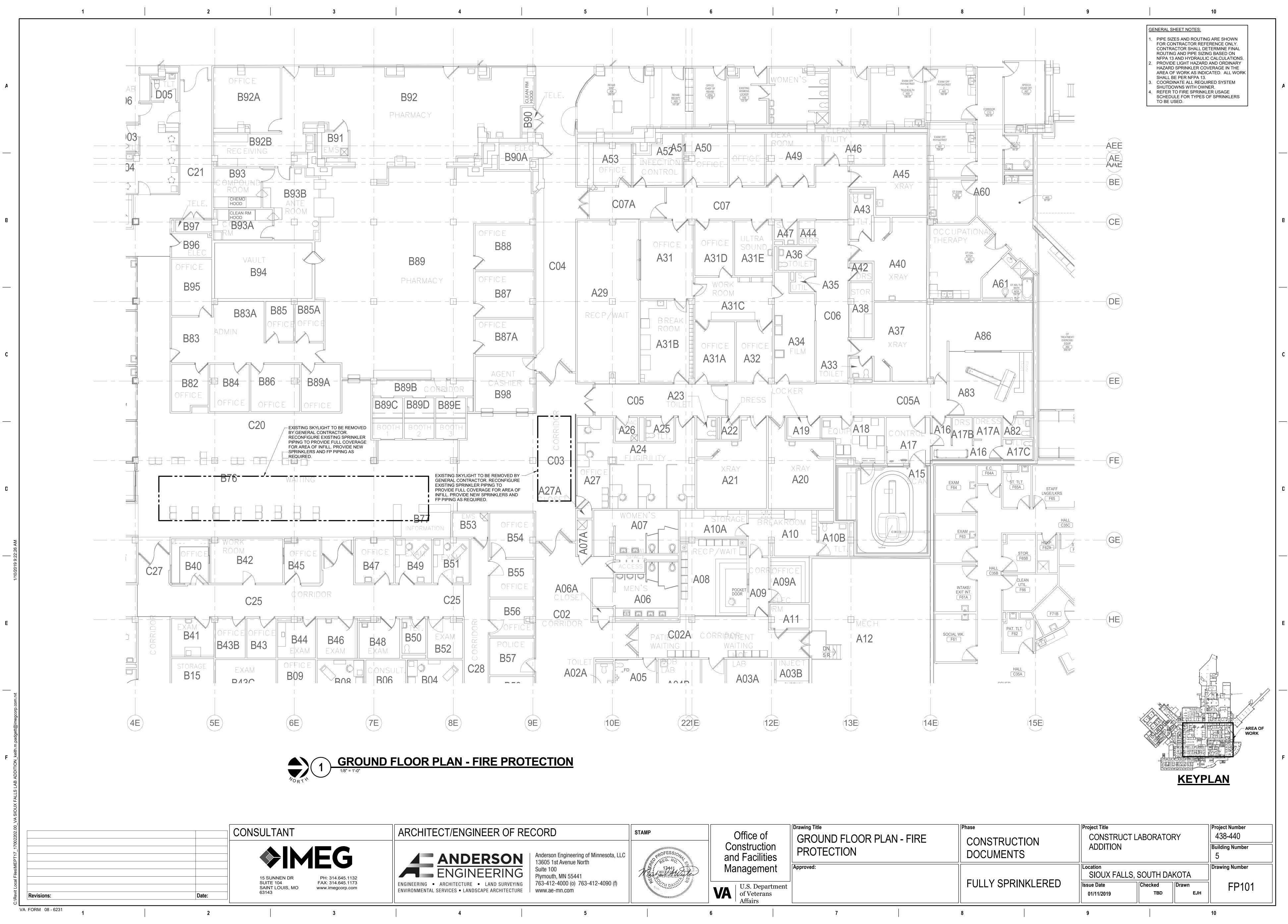
L NOTES:
ENCE OF THE CONTRACTOF ATERIALS REQUIRED FOR
BUT ARE GIVEN AS AN AID TO CONTRACTOR IS IN THESE DRAWINGS AND IN OF THE MATERIAL TAKES FACTURER IS THE BASIS OF
OUT. DETERMINE EXACT
ALL AREAS. IN AREAS WITH N IS ACCEPTABLE. OTHERWISE NOTED. ERS WITH QUICK RESPONSE
ATER THAN 48" WIDE. REFER TO ARCHITECTURAL
IOTES:
NCLUDING BUT NOT LIMITED PERATURE CONTROL.
, PIPING, ETC. ARE LLATION CONDITIONS. RK, PIPING, EQUIPMENT, ETC FOR COMPLETE ELY AS ACTUAL BUILDING
ARANCES FROM ROPRIATE DRAWINGS OR SE OF OTHER TRADES. NSTALLATION TO PROVIDE DE COMPLIANCE, AND TO RICATE PRIOR TO BRING ANY INTERFERENCE EER BEFORE PROCEEDING
SUBSTITUTED AND MAKE G TO PROVIDE PROPER
RESULT FROM A FAILURE TO ADDITIONAL COST OR
ATED WITH ELECTRICAL RS FROM THE BASIS OF
RICAL, TECHNOLOGY DCATIONS OF ALL CEILING

SD ISSUE	DD ISSUE	CD ISSUE

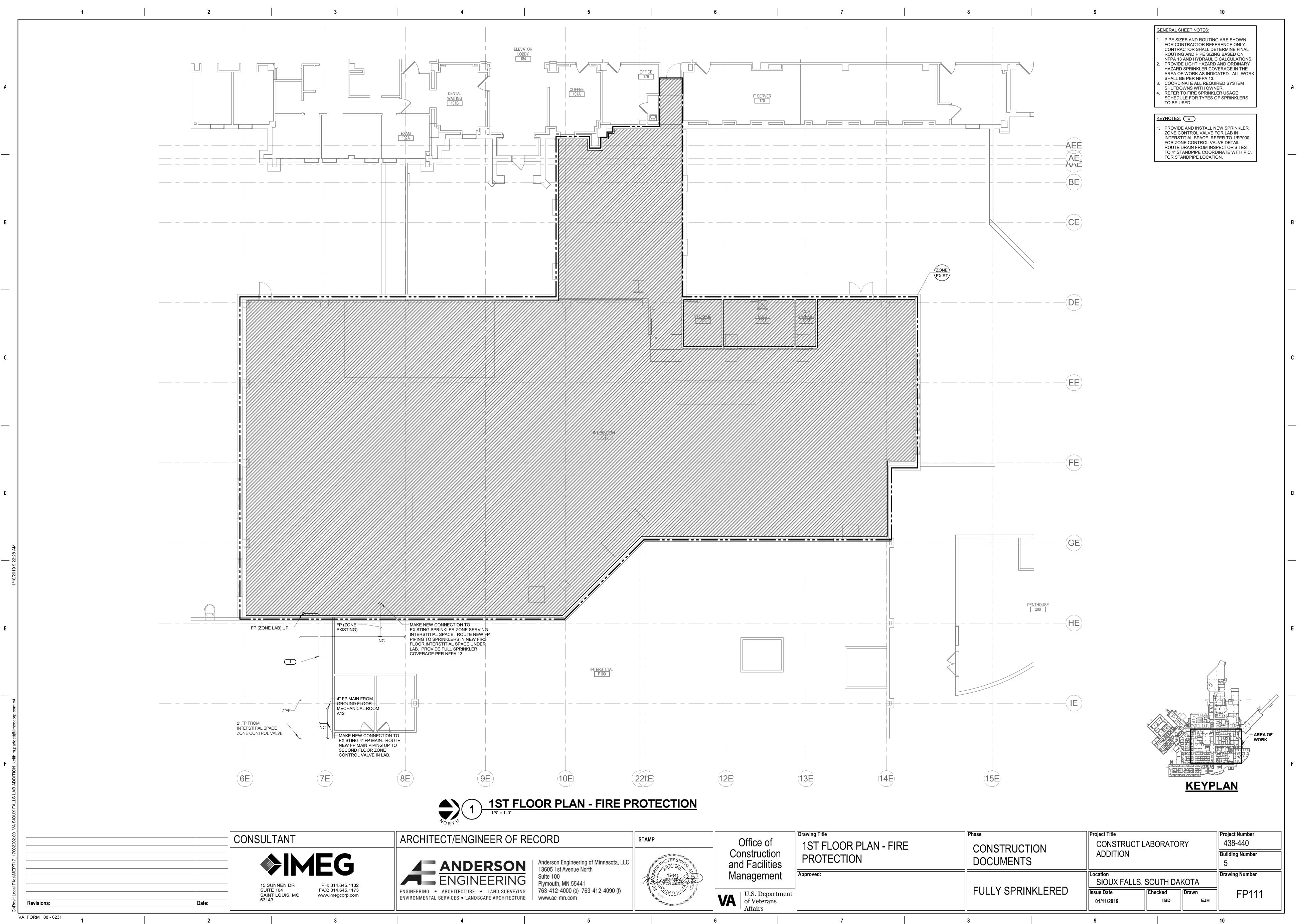
D

Е

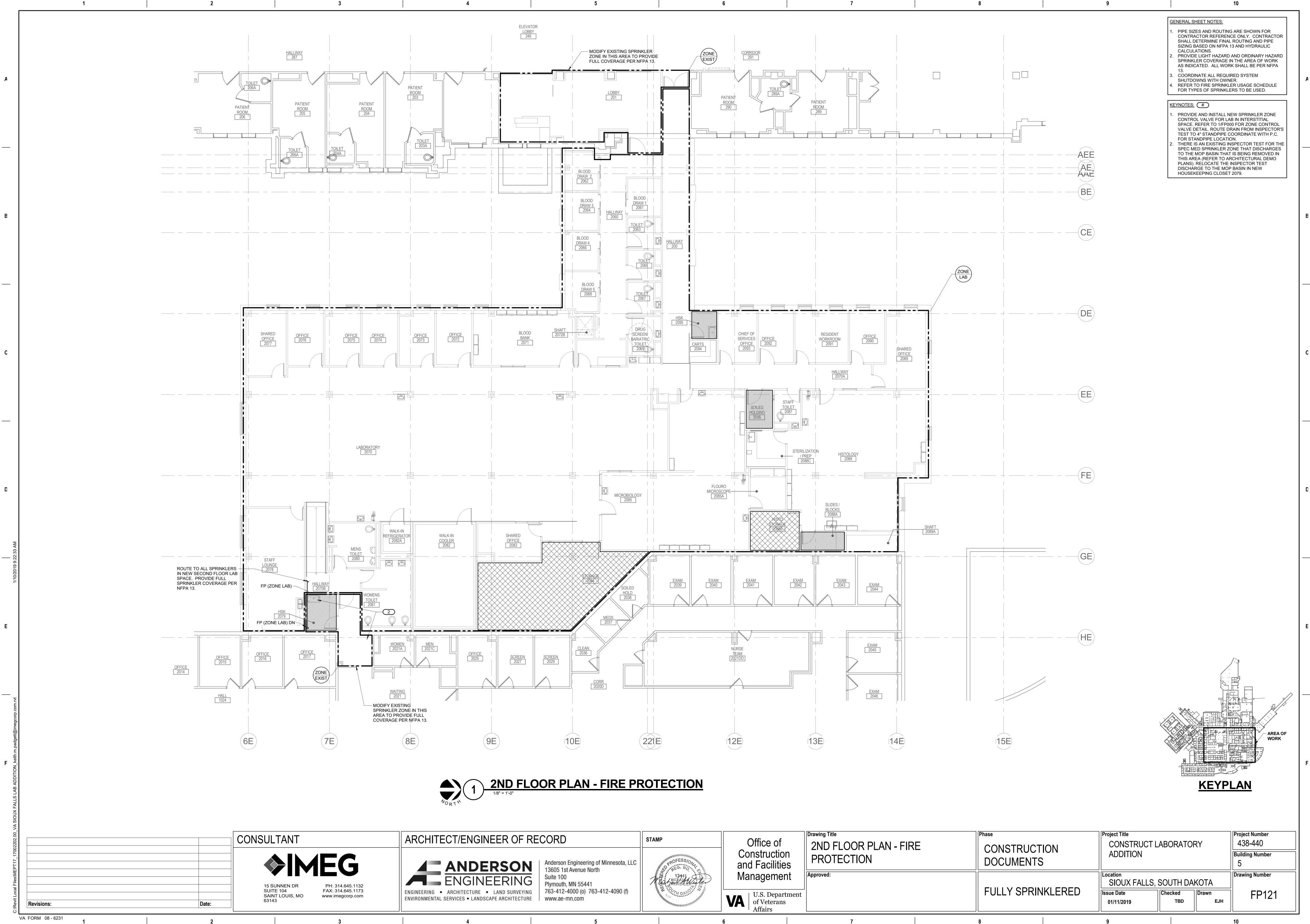




e of iction cilities	Drawing Title GROUND FLOOR PLAN PROTECTION		CONSTRUCTI DOCUMENTS	ON	Project Title CONSTRUCT L/ ADDITION	ABORA
Pepartment Terans	Approved:		FULLY SPRIN		Location SIOUX FALLS, S Issue Date 01/11/2019	SOUTH Checked тві
	7	8			9	



of ction ilities	Drawing Title 1ST FLOOR PLAN - FIRE PROTECTION	Phase CONSTRUCTION DOCUMENTS	Project Title CONSTRUCT L ADDITION	_ABORA
ment Department erans	Approved:	FULLY SPRINKLERED	Location SIOUX FALLS, Issue Date 01/11/2019	SOUTH
	7	8	9	



of ction ilities	Drawing Title 2ND FLOOR PLAN - FIRE PROTECTION	Phase CONSTRUCTION DOCUMENTS	Project Title CONSTRUCT LA ADDITION	\BORA
ment Pepartment erans	Approved:		Location SIOUX FALLS, S Issue Date 01/11/2019	SOUTH Checked твD
	7	8	9	

(DAF — — NEW (DAF — NEW (LIG — — EXIS (DAF	1 1/8" = 1'- SIM 1 1/8" = 1'- SIM 1 1/8" = 1'- NUM NUMERIAL SIM 1 1 NUMERIAL NUMER	ADDITIONAL INFOI WORK REQUIRED SHEET AND/OR DE INDICATES DIRECTION OF TRU PLAN OR DETAIL NUMBER PLAN OR DETAIL NAME WNAME O" PLAN OR DETAIL NAME O" PLAN OR DETAIL SCALE O" PLAN OR DETAIL SCALE O DETAIL REFERRED TO BY SEC SHEET DETAIL IS LOCATED ON INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOO DETAIL REFERRED TO BY ELEN SHEET DETAIL IS LOCATED ON SHEET DETAIL IS LOCATED ON ONTRACTOR	, SPECIFIC TO THE ETAIL IE NORTH CATIONS TION CUT I CATIONS VATION	SYMBOL: AV AW CO2 CW D HW HWC PW RO SAN STS TW V -STS TW O O O FD	NOT ALL DESCRIPTION: ACID VENT ACID WASTE CARBON DIOXIDE COLD WATER - POTABLE DRAIN HOT WATER - POTABLE HOT WATER - POTABLE HOT WATER CIRCULATING PURE WATER REVERSE OSMOSIS WATE SANITARY DRAINAGE STORM DRAINAGE (ROOF STORM DRAINAGE (SECO TEMPERED WATER VENT PIPE CONTINUATION PIPE CAP PIPE DOWN PIPE UP OR UP/DOWN PIPE SERVING FIXTURE O
<u>'PE KEY:</u>	VIE 1/8" = 1'- 1/8" = 1'- 1	INDICATES DIRECTION OF TRU PLAN OR DETAIL NUMBER PLAN OR DETAIL NAME PLAN OR DETAIL NAME PLAN OR DETAIL SCALE PLAN OR DETAIL SCALE INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOW DETAIL REFERRED TO BY SEC SHEET DETAIL IS LOCATED ON INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOW DETAIL REFERRED TO BY ELEW SHEET DETAIL IS LOCATED ON NTRACTOR OR OR UNDERGROUND BY THIS CON INDICATES CON	IE NORTH CATIONS TION CUT I CATIONS VATION	AV AW CO2 CW D HW HWC PW RO SAN SAN STS TW V V O O	ACID VENT ACID WASTE CARBON DIOXIDE COLD WATER - POTABLE DRAIN HOT WATER - POTABLE HOT WATER CIRCULATING PURE WATER REVERSE OSMOSIS WATE SANITARY DRAINAGE STORM DRAINAGE (ROOF STORM DRAINAGE (ROOF STORM DRAINAGE (SECO TEMPERED WATER VENT PIPE CONTINUATION PIPE CAP PIPE DOWN PIPE UP OR UP/DOWN
<u>'PE KEY:</u>	1 1/8" = 1'- SIM 1 1/8" = 1'- SIM 1 1/8" = 1'- SIM 1 1 SIM 1 1 SIM 1 V V V V V V V V V V V V V	PLAN OR DETAIL NUMBER PLAN OR DETAIL NAME PLAN OR DETAIL NAME PLAN OR DETAIL SCALE PLAN OR DETAIL SCALE PLAN OR DETAIL SCALE INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOW DETAIL REFERRED TO BY SEC SHEET DETAIL IS LOCATED ON INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOW DETAIL REFERRED TO BY ELEW SHEET DETAIL IS LOCATED ON NTRACTOR OR OR UNDERGROUND BY THIS CON INDICATES ON UNDERGROUND BY THIS CON INDICATES ON UNDERGROUND BY THIS CON INDICATES ON UNDERGROUND BY THIS CON	CATIONS TION CUT CATIONS VATION	AW CO2 CW D HW HWC PW RO SAN SAN ST(1,000) STS TW V V O O	ACID WASTE CARBON DIOXIDE COLD WATER - POTABLE DRAIN HOT WATER - POTABLE HOT WATER CIRCULATING PURE WATER REVERSE OSMOSIS WATE SANITARY DRAINAGE STORM DRAINAGE (ROOF STORM DRAINAGE (ROOF STORM DRAINAGE (SECO TEMPERED WATER VENT PIPE CONTINUATION PIPE CAP PIPE DOWN PIPE UP OR UP/DOWN
<u>'PE KEY:</u>	1 1/8" = 1'- SIM 1 1/8" = 1'- SIM 1 1/8" = 1'- SIM 1 1 SIM 1 1 SIM 1 V V V V V V V V V V V V V	O" PLAN OR DETAIL SCALE O" PLAN OR DETAIL SCALE INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOW DETAIL REFERRED TO BY SEC SHEET DETAIL IS LOCATED ON INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOW DETAIL REFERRED TO BY ELEV DETAIL REFERRED TO BY ELEV SHEET DETAIL IS LOCATED ON SHEET DETAIL IS LOCATED ON ONTRACTOR OR OR UNDERGROUND BY THIS CON	TION CUT I CATIONS VATION	CW D HWC PW RO SAN ST(1,000) STS TW V 7 3 3 0	COLD WATER - POTABLE DRAIN HOT WATER - POTABLE HOT WATER - POTABLE HOT WATER CIRCULATING PURE WATER REVERSE OSMOSIS WATE SANITARY DRAINAGE STORM DRAINAGE (ROOF STORM DRAINAGE (ROOF STORM DRAINAGE (SECO TEMPERED WATER VENT PIPE CONTINUATION PIPE CAP PIPE DOWN PIPE UP OR UP/DOWN
<u>'PE KEY:</u>	1 1/8" = 1'- SIM 1 1/8" = 1'- SIM 1 1/8" = 1'- SIM 1 1 SIM 1 1 SIM 1 V V V V V V V V V V V V V	O" PLAN OR DETAIL SCALE INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LO DETAIL REFERRED TO BY SEC SHEET DETAIL IS LOCATED ON INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LO DETAIL REFERRED TO BY ELEV SHEET DETAIL IS LOCATED ON NTRACTOR OR OR UNDERGROUND BY THIS CON INE)	TION CUT I CATIONS VATION		HOT WATER - POTABLE HOT WATER CIRCULATING PURE WATER REVERSE OSMOSIS WATE SANITARY DRAINAGE STORM DRAINAGE (ROOF STORM DRAINAGE (SECO TEMPERED WATER VENT PIPE CONTINUATION PIPE CAP PIPE DOWN PIPE UP OR UP/DOWN
<u>'PE KEY:</u>	SIM SIM SIM SIM SIM SIM SIM SIM	PLAN OR DETAIL SCALE INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOG DETAIL REFERRED TO BY SEC SHEET DETAIL IS LOCATED ON INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOG DETAIL REFERRED TO BY ELEN SHEET DETAIL IS LOCATED ON NTRACTOR OR OR UNDERGROUND BY THIS CON INE)	TION CUT I CATIONS VATION		HOT WATER CIRCULATING PURE WATER REVERSE OSMOSIS WATE SANITARY DRAINAGE STORM DRAINAGE (ROOF STORM DRAINAGE (SECO TEMPERED WATER VENT PIPE CONTINUATION PIPE CAP PIPE DOWN PIPE UP OR UP/DOWN
<u>'PE KEY:</u>	V WORK BY THIS CO RK SOLID LINE) WORK UNDERFLOU WORK UNDERFLOU RK LONG DASHED LI WORK BY OTHERS HT SOLID LINE)	REFERENCED IN MULTIPLE LOG DETAIL REFERRED TO BY SEC SHEET DETAIL IS LOCATED ON INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOG DETAIL REFERRED TO BY ELEN SHEET DETAIL IS LOCATED ON ONTRACTOR	TION CUT I CATIONS VATION		PURE WATER REVERSE OSMOSIS WATE SANITARY DRAINAGE STORM DRAINAGE (ROOF STORM DRAINAGE (SECO TEMPERED WATER VENT PIPE CONTINUATION PIPE CAP PIPE DOWN PIPE UP OR UP/DOWN
NEW (DAF — — NEW (DAF — NEW (LIG - — — EXIS (DAF	V WORK BY THIS CO RK SOLID LINE) WORK UNDERFLOU WORK UNDERFLOU RK LONG DASHED LI WORK BY OTHERS HT SOLID LINE)	REFERENCED IN MULTIPLE LOG DETAIL REFERRED TO BY SEC SHEET DETAIL IS LOCATED ON INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOG DETAIL REFERRED TO BY ELEN SHEET DETAIL IS LOCATED ON ONTRACTOR	TION CUT I CATIONS VATION		SANITARY DRAINAGE STORM DRAINAGE (ROOF STORM DRAINAGE (SECO TEMPERED WATER VENT PIPE CONTINUATION PIPE CAP PIPE DOWN PIPE UP OR UP/DOWN
NEW (DAF — — NEW (DAF — NEW (LIG - — — EXIS (DAF	SIM 4 4 2 T101 V WORK BY THIS CO RK SOLID LINE) V WORK UNDERFLOO RK LONG DASHED LI V WORK BY OTHERS HT SOLID LINE) STING TO BE REMOV	SHEET DETAIL IS LOCATED ON INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOU DETAIL REFERRED TO BY ELEN SHEET DETAIL IS LOCATED ON ONTRACTOR OR OR UNDERGROUND BY THIS CON INE)	I CATIONS VATION	STS	STORM DRAINAGE (SECO TEMPERED WATER VENT PIPE CONTINUATION PIPE CAP PIPE DOWN PIPE UP OR UP/DOWN
NEW (DAF — — NEW (DAF — NEW (LIG - — — EXIS (DAF	SIM 4 4 2 T101 V WORK BY THIS CO RK SOLID LINE) V WORK UNDERFLOO RK LONG DASHED LI V WORK BY OTHERS HT SOLID LINE) STING TO BE REMOV	INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LO DETAIL REFERRED TO BY ELEN SHEET DETAIL IS LOCATED ON ONTRACTOR OR OR UNDERGROUND BY THIS CON INE)	CATIONS /ATION	TW 	TEMPERED WATER VENT PIPE CONTINUATION PIPE CAP PIPE DOWN PIPE UP OR UP/DOWN
NEW (DAF — — NEW (DAF — NEW (LIG - — — EXIS (DAF	V WORK BY THIS CO RK SOLID LINE) W WORK UNDERFLOO RK LONG DASHED LI W WORK BY OTHERS HT SOLID LINE)	REFERENCED IN MULTIPLE LO DETAIL REFERRED TO BY ELEN SHEET DETAIL IS LOCATED ON ONTRACTOR OR OR UNDERGROUND BY THIS CON INE)	VATION	o	PIPE CONTINUATION PIPE CAP PIPE DOWN PIPE UP OR UP/DOWN
NEW (DAF — — NEW (DAF — NEW (LIG - — — EXIS (DAF	V WORK BY THIS CO RK SOLID LINE) W WORK UNDERFLOO RK LONG DASHED LI W WORK BY OTHERS HT SOLID LINE)	SHEET DETAIL IS LOCATED ON ONTRACTOR OR OR UNDERGROUND BY THIS CON INE)	I	o	PIPE CAP PIPE DOWN PIPE UP OR UP/DOWN
NEW (DAF — — NEW (DAF — NEW (LIG - — — EXIS (DAF	V WORK BY THIS CO RK SOLID LINE) V WORK UNDERFLOG RK LONG DASHED LI V WORK BY OTHERS HT SOLID LINE) STING TO BE REMOV	ONTRACTOR OR OR UNDERGROUND BY THIS CON INE)		o	PIPE DOWN PIPE UP OR UP/DOWN
NEW (DAF — — NEW (DAF — NEW (LIG - — — EXIS (DAF	RK SOLID LINE) V WORK UNDERFLOG RK LONG DASHED LI V WORK BY OTHERS HT SOLID LINE) STING TO BE REMOV	OR OR UNDERGROUND BY THIS CON	ITRACTOR	o	
NEW (DAF (LIG EXIS (DAF	W WORK UNDERFLOOR RK LONG DASHED LI W WORK BY OTHERS HT SOLID LINE)	INE)	ITRACTOR	o _{FD}	PIPE SERVING FIXTURE O
(DAF NEW (LIG ————EXIS (DAF	RK LONG DASHED LI V WORK BY OTHERS HT SOLID LINE) STING TO BE REMOV	INE)	NTRACTOR		(EXAMPLE: FD = FLOOR D
(LIG EXIS (DAF	HT SOLID LINE) STING TO BE REMOV	SAND/OR EXISTING TO REMAIN			PITCH PIPE IN DIRECTION
CONTRACTOR					DIRECTION OF FLOW IN P
CONTRACTOR	KK SHORT DASHED	/ED BY THIS CONTRACTOR		I <u>RD-1</u> (7/(4000)	ROOF DRAIN PROPERTIES
			J	6"(1000) ——————————————————————————————————	NEW CONNECTION
	<u>APPLIC</u>	CABLE CODES			UNION/FLANGE
G CODE:		H APPLICABLE CODES AND LOCAL A	MENDMENTS.		SHUTOFF VALVE NORMAL
		IBC 2015 EDITION			BALANCING VALVE (NUME
DDE:		IFC 2015 EDITION			CHECK VALVE
NG CODE:		UPC 2015			SOLENOID VALVE
				(SV)	SOLENOID VALVE WALL S
EICAL CODE:		NFPA 70 (NEC) 2017 EDITION			SAFETY/RELIEF VALVE
	ON CODE:	IECC 2009			
		CURRENT EDITION			PRESSURE GAUGE (FURN
	Ξ:	CURRENT EDITION		—¥—	
					REDUCER - REFERENCE S
		ABBREVIATION K			PRESSURE REDUCING VA
					PLUMBING A
C. ELEC	TRICAL CONTRACTO	OR			
C. MECH	IANICAL CONTRACT	OR		AFF AGF	ABOVE FINISHED FLOOR AIR GAP FITTING
				BFP	BACKFLOW PREVENTER
C. TECH	NOLOGY CONTRAC	TOR		CO E	CLEANOUT EXISTING
.C. NURS		OR		ESE	EMERGENCY SHOWER/EN
				FCO	
	CONTAC	T PERSONS:]	FD FM	FLOOR DRAIN FLOW METER
RIDTION				FS	
				I.E. LAV	INVERT ELEVATION (FOR LAVATORY
				МВ	MOP BASIN
				MV NC	MIXING VALVE
	ER [DAVE LARSON, RCDD		NIC	NOT IN CONTRACT
				NT	
				RD SK	ROOF DRAIN SINK
				TP	TRAP PRIMER
				TYP	
				UR VTR	URINAL VENT THROUGH ROOF
				wc	WATER CLOSET
				WCO	WALL CLEANOUT UTILITY BOX
				UNO	UNLESS NOTED OTHERW
	AFETY CODE: Y CONSERVATION H DEPARTMENT BUILDING CODE	AFETY CODE: Y CONSERVATION CODE: H DEPARTMENT CODE: BUILDING CODE: CONTRACTOR CONTRACTOR ASBESTOS ABATEMENT (CONTRACTING OFFICER' C. ASBESTOS ABATEMENT (CONTRACTING OFFICER' C. ELECTRICAL CONTRACTOR C. FIRE PROTECTION CONT C. GENERAL CONTRACTOR C. HECHANICAL CONTRACTOR C. PLUMBING CONTRACTOR C. PLUMBING CONTRACTOR C. TECHNOLOGY CONTRACTOR C. NURSE CALL CONTRACTOR C. MANAGER ANICAL ENGINEER	AFETY CODE: NFPA 101 2012 EDITION Y CONSERVATION CODE: IECC 2009 I DEPARTMENT CODE: CURRENT EDITION BUILDING CODE: CURRENT EDITION BUILDING CODE: CURRENT EDITION SUBSCRIPTION: CONTRACTOR ABBREVIATION K BESCRIPTION: C. ASBESTOS ABATEMENT CONTRACTOR D.R. CONTRACTING OFFICER'S REPRESENTATIVE C. ELECTRICAL CONTRACTOR C. FIRE PROTECTION CONTRACTOR C. FIRE PROTECTION CONTRACTOR C. GENERAL CONTRACTOR C. MEDICAL EQUIPMENT CONTRACTOR C. MEDICAL EQUIPMENT CONTRACTOR C. PLUMBING CONTRACTOR C. NURSE CALL CONTRACTOR </th <th>FETY CODE: NFPA 101 2012 EDITION Y CONSERVATION CODE: IECC 2009 H DEPARTMENT CODE: CURRENT EDITION BUILDING CODE: CURRENT EDITION BUILDING CODE: CURRENT EDITION SR: DESCRIPTION: C. ASBESTOS ABATEMENT CONTRACTOR DR. CONTRACTING OFFICER'S REPRESENTATIVE C. ASBESTOS ABATEMENT CONTRACTOR DR. CONTRACTOR OFFICER'S REPRESENTATIVE C. ELECTRICAL CONTRACTOR C. FIRE PROTECTION CONTRACTOR C. GENERAL CONTRACTOR C. GENERAL CONTRACTOR C. MEDICAL EQUIPMENT CONTRACTOR C. PLUMBING CONTRACTOR C. NURSE CALL CONTRACTOR C.</th> <th>FFTV CODE: NPPA 101 2012 EDITION Y CONSERVATION CODE: IECC 2009 10EPARTMENT CODE: CURRENT EDITION BUILDING CODE: CURRENT EDITION IDESCRIPTION: CURRENT EDITION C ASBESTOS ABATEMENT CONTRACTOR C. ASBESTOS ABATEMENT CONTRACTOR C. ASBESTOS ABATEMENT CONTRACTOR C. ELECTRICAL CONTRACTOR C. ELECTRICAL CONTRACTOR C. GENERAL CONTRACTOR C. MECHANICAL CONTRACTOR C. MEDICAL EOUIPRENT CONTRACTOR C. MEDICAL EOUIPRENT CONTRACTOR C. NURSE CALL CONTRACTOR C. NURSE CALL CONTRACTOR C. MEDICAL EOUIPRENT MICAL ENGINEER JAMES LESSARD, P.E. NICAL ENGINEER JAVE LARSON, RCDD NC</th>	FETY CODE: NFPA 101 2012 EDITION Y CONSERVATION CODE: IECC 2009 H DEPARTMENT CODE: CURRENT EDITION BUILDING CODE: CURRENT EDITION BUILDING CODE: CURRENT EDITION SR: DESCRIPTION: C. ASBESTOS ABATEMENT CONTRACTOR DR. CONTRACTING OFFICER'S REPRESENTATIVE C. ASBESTOS ABATEMENT CONTRACTOR DR. CONTRACTOR OFFICER'S REPRESENTATIVE C. ELECTRICAL CONTRACTOR C. FIRE PROTECTION CONTRACTOR C. GENERAL CONTRACTOR C. GENERAL CONTRACTOR C. MEDICAL EQUIPMENT CONTRACTOR C. PLUMBING CONTRACTOR C. NURSE CALL CONTRACTOR C.	FFTV CODE: NPPA 101 2012 EDITION Y CONSERVATION CODE: IECC 2009 10EPARTMENT CODE: CURRENT EDITION BUILDING CODE: CURRENT EDITION IDESCRIPTION: CURRENT EDITION C ASBESTOS ABATEMENT CONTRACTOR C. ASBESTOS ABATEMENT CONTRACTOR C. ASBESTOS ABATEMENT CONTRACTOR C. ELECTRICAL CONTRACTOR C. ELECTRICAL CONTRACTOR C. GENERAL CONTRACTOR C. MECHANICAL CONTRACTOR C. MEDICAL EOUIPRENT CONTRACTOR C. MEDICAL EOUIPRENT CONTRACTOR C. NURSE CALL CONTRACTOR C. NURSE CALL CONTRACTOR C. MEDICAL EOUIPRENT MICAL ENGINEER JAMES LESSARD, P.E. NICAL ENGINEER JAVE LARSON, RCDD NC

2

1

2

4	

UMBING SYMBOL LIST	7
NOT ALL SYMBOLS MAY APPLY.	MECHANICAL GE
	THESE NOTES APPLY TO ALL MECHANICAL SHEET TO, FIRE PROTECTION, PLUMBING, VENTILATION, I
	1. DRAWINGS SHOWING LOCATIONS OF EQUIPM DIAGRAMMATIC AND MAY NOT ALWAYS REFLE DRAWINGS SHOW THE GENERAL ARRANGEME AND MAY NOT INCLUDE ALL OFFSETS AND FIT
XIDE R - POTABLE	INSTALLATION. THE DRAWINGS SHALL BE FOL CONSTRUCTION AND THE WORK OF OTHERS 2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMEN ARCHITECTURAL, STRUCTURAL, SUBMITTALS,
- POTABLE CIRCULATING - POTABLE	PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, 3. COORDINATE ALL WORK WITH ALL OTHER TRA CLEARANCES REQUIRED FOR OPERATION, MA VERIFY NON-INTERFERENCE WITH OTHER WO
RAINAGE	VERIFICATION OF NECESSARY CLEARANCES F OR CONFLICTS TO THE ATTENTION OF THE AF WITH FABRICATION OR EQUIPMENT ORDERS. 4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT
NAGE (ROOF SQUARE FOOTAGE) NAGE (SECONDARY)	REASONABLE ACCOMMODATIONS IN LAYOUT ACCESS. 5. ANY CHANGES REQUIRED TO ELIMINATE CONI COORDINATE SHALL BE MADE BY THE CONTR
VATER	 EXPENSE TO OTHERS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES REQUIRED FOR EQUIPMENT PROPO DESIGN.
UATION	 REFER TO ARCHITECTURAL REFLECTED CEILI AUDIO/VISUAL, AND OTHER MECHANICAL PLAN MOUNTED DEVICES, OTHER THAN SPRINKLER EACH CONTRACTOR IS RESPONSIBLE FOR DA
JP/DOWN G FIXTURE ON FLOOR ABOVE D = FLOOR DRAIN)	FLOORS, CEILINGS, AND ROOFS. THE CONTRA RESPONSIBLE FOR PATCHING TO MATCH ORIG FINISH. 9. IN AREAS WITH DRYWALL CEILINGS COORDIN/ 00.5500 A005500 TO MALVED, DUOTMODIA
N DIRECTION OF FLOW IN PIPE RAIN	GC FOR ACCESS TO VALVES, DUCTWORK ACC PANEL TYPE AND COLOR WITH ARCHITECT. NO PANELS PRIOR TO BIDDING. 10. SEAL ALL FLOOR, WALL AND ROOF PENETRAT AND DUCTS PENETRATE. PENETRATIONS THR
PROPERTIES <u>SYMBOL</u> SIZE (ROOF SQ. FT.) CTION	SEALED AIRTIGHT WITH WATERPROOFING MA FOR OUTDOOR USE. 11. CAULK ALL PIPE AND DUCT PENETRATIONS OF PARTITION, FLOOR, AND ROOF ASSEMBLIES. T TRANSMISSION FROM ONE ROOM TO ANOTHE
GE LVE NORMALLY OPEN	WITHIN ROOMS. 12. WHERE PIPES AND DUCTS ARE SHOWN TO PE OPENINGS WITH THE TOP EDGE RAISED ABOV RELEVANT SPEC SECTIONS. SEAL SLEEVE PEI
LVE NORMALLY CLOSED /ALVE (NUMBER INDICATES GPM) E	13. EQUIPMENT SIZES AND SERVICE CLEARANCE MANUFACTURERS. CONSULT APPROVED SHO REQUIRED SERVICE CLEARANCES. COORDINA PIPING, DUCTWORK, ETC.
ALVE ALVE WALL SWITCH	 DO NOT BLOCK TUBE PULL OR EQUIPMENT SE MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRON STARTERS, SWITCHES, AND DISCONNECTS. PROVIDE CONCRETE EQUIPMENT PAD FOR AI
EF VALVE EAKER	EXTEND MINIMUM 6" BEYOND ALL SIDES OF EC 17. DO NOT SUPPORT EQUIPMENT, PIPING, OR DU NON-STRUCTURAL BUILDING ELEMENTS. ANC CRACKED CONCRETE APPROVED IN ACCORD
GAUGE (FURNISHED WITH BALL VALVE)	
ER WITH WELL (DIAL TYPE)	MECHANICAL REN THESE NOTES APPLY TO ALL MECHANICAL SHEET
REFERENCE SPECIFICATION	TO, FIRE PROTECTION, PLUMBING, VENTILATION, I
NTRIC/ECCENTRIC AND FOT/FOB REDUCING VALVE (LIQUID/GAS)	1. EXISTING CONDITIONS ARE SHOWN BASED ON SURVEYS, EXISTING BUILDING DOCUMENTS, A REPORT ANY CONFLICTS BEFORE PROCEEDIN
	 NOT ALL EXISTING DUCTWORK AND PIPING IS BEFORE STARTING WORK. NOTIFY ENGINEER FIELD VERIFY THE AVAILABLE CLEARANCES FOR FABRICATION. RISES AND DROPS MAY BE NED
BING ABBREVIATION KEY	CONDITIONS. 4. EACH CONTRACTOR SHALL FIELD VERIFY ACC SHALL NOTIFY THE GENERAL CONTRACTOR P
TION:	REQUIRED TO BE REMOVED OR RELOCATED 1 5. THE GENERAL CONTRACTOR IS RESPONSIBLE
HED FLOOR	ROOFS, WALLS, AND FLOORS ASSOCIATED WI CONTRACTORS SHALL NOTIFY THE GC OF AFF
ING PREVENTER	6. THE GENERAL CONTRACTOR IS RESPONSIBLE CEILINGS, CEILING TILES, AND CEILING GRIDS CONTRACTORS. NOTIFY THE GENERAL CONTF BIDDING.
ŚHOWER/EYEWASH	7. WHERE EXISTING MECHANICAL SYSTEMS ARE NEW EQUIPMENT, PIPING, OR DUCTWORK TO EITHER ARRANGE NEW EQUIPMENT, PIPING, O DOES NOT CONFLICT WITH EXISTING SYSTEM
NOUT	SYSTEMS TO ALLOW FOR INSTALLATION OF N 8. PROVIDE TEMPORARY CONNECTIONS TO MAIL
N R	CONSTRUCTION. MAINTAIN ACCESS TO EXISTI REMAIN ACTIVE.
	9. OBTAIN PERMISSION FROM OWNER BEFORE S REASON. MAINTAIN SERVICE TO ALL COMPON SYSTEMS ARE INSTALLED.
ATION (FOR REFERENCE ONLY)	10. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL TIE IN AND SWITCHOVER. DRAIN SYSTEM ONL CONNECTIONS. OBTAIN PERMISSION FROM ON DRAINING SYSTEM. MAKE CHANGEOVER TO N 11. DISCONNECT AND REMOVE MECHANICAL DEV
E CTION	THAT HAS BEEN REMOVED.
RACT TION TANK	MECHANICAL PH
TION TANK	THESE NOTES APPLY TO ALL MECHANICAL SHEET TO, FIRE PROTECTION, PLUMBING, VENTILATION, I
R NGH ROOF	1. REFER TO ARCHITECTURAL DRAWINGS FOR G ARCHITECT'S INSTRUCTIONS FOR MORE DETA CONCURRENT WORK. MECHANICAL, ELECTRI THE INTENT OF THE FINAL DESIGN. THE MECH DRAWINGS DO NOT DEPICT THE MEANS AND M THE PHASING CRITERIA.
GET OUT	 2. REVIEW PROJECT PHASING PLANS TO COORE WITH AFFECTED ADJACENT AREAS. 3. PROVIDE TEMPORARY DUCTWORK, PIPING, SF ALARMS, ETC., AS NEEDED TO MAINTAIN SERV.

UT

D OTHERWISE

ENERAL NOTES:

ETS AND TRADES, INCLUDING BUT NOT LIMITED , PIPING AND TEMPERATURE CONTROL.

- PMENT, DUCTWORK, PIPING, ETC. ARE LECT EXACT INSTALLATION CONDITIONS. MENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., ITTINGS REQUIRED FOR COMPLETE FOLLOWED AS CLOSELY AS ACTUAL BUILDING RS WILL PERMIT.
- IENSIONS AND CLEARANCES FROM LS, AND OTHER APPROPRIATE DRAWINGS OR GS, INCLUDING THOSE OF OTHER TRADES. TRADES PRIOR TO INSTALLATION TO PROVIDE
- MAINTENANCE, CODE COMPLIANCE, AND TO NORK. DO NOT FABRICATE PRIOR TO S FOR ALL TRADES. BRING ANY INTERFERENCES ARCHITECT/ENGINEER BEFORE PROCEEDING
- IENT SPECIFIED OR SUBSTITUTED AND MAKE IT AND POSITIONING TO PROVIDE PROPER ONFLICTS OR THAT RESULT FROM A FAILURE TO
- FRACTOR WITHOUT ADDITIONAL COST OR ALL COSTS ASSOCIATED WITH ELECTRICAL
- POSED THAT DIFFERS FROM THE BASIS OF
- ILING PLAN, ELECTRICAL, TECHNOLOGY LANS FOR EXACT LOCATIONS OF ALL CEILING DAMAGE CAUSED BY THEIR ACTIONS TO WALLS,
- RACTOR WHOSE WORK CAUSES DAMAGE IS RIGINAL CONSTRUCTION, FIRE RATING, AND INATE LOCATIONS OF ACCESS PANELS WITH THE CCESSORIES, DAMPERS, ETC. COORDINATE
- NOTIFY THE GC OF THE REQUIRED ACCESS ATIONS AIRTIGHT WHERE CONDUITS, PIPING, HROUGH EXTERIOR WALLS AND ROOF SHALL BE
- MATERIALS RECOMMENDED BY MANUFACTURER OF FULL HEIGHT NON-FIRE RATED WALL, . THIS IS ESSENTIAL TO PREVENT NOISE
- HER AND TO PROVIDE THE DESIRED NC LEVELS PENETRATE FLOORS, PROVIDE SLEEVED OVE FLOOR SURFACE IN ACCORDANCE WITH ALL
- PERIMETER TO BE WATERTIGHT. E REQUIREMENTS VARY AMONG DIFFERENT HOP DRAWINGS FOR EQUIPMENT SIZES AND INATE WITH LAYOUT OF EQUIPMENT PADS,
- SERVICE CLEARANCES.
- ONT OF ALL ELECTRICAL PANELS, MOTOR RALL FLOOR MOUNTED EQUIPMENT. PAD SHALL
- EQUIPMENT. DUCTWORK FROM METAL DECKING OR OTHER NCHORS EMBEDDED IN CONCRETE SHALL BE ADANCE WITH SPECIFICATIONS.

NOVATION NOTES:

ETS AND TRADES, INCLUDING BUT NOT LIMITED N, PIPING AND TEMPERATURE CONTROL.

- ON INFORMATION OBTAINED FROM FIELD S, AND STAFF. VERIFY EXISTING CONDITIONS AND
- DING. IS SHOWN. VERIFY EXISTING CONDITIONS ER OF ANY CONFLICTS WITH NEW WORK.
- FOR DUCTWORK AND PIPING BEFORE ECESSARY BECAUSE OF EXISTING FIELD
- CCESSIBILITY TO THE AREA OF HIS WORK AND R PRIOR TO BIDDING IF OTHER UTILITIES ARE D TO ALLOW ACCESS TO HIS AREA OF WORK. BLE FOR CUTTING, REMOVAL AND PATCHING OF
- WITH WORK BY ALL CONTRACTORS. AFFECTED AREAS PRIOR TO BIDDING. BLE FOR REMOVAL AND REPLACEMENT OF S ASSOCIATED WITH AREAS OF WORK BY ALL
- NTRACTOR OF AFFECTED AREAS PRIOR TO RE LOCATED IN AREAS THAT CONFLICT WITH TO BE INSTALLED, EACH CONTRACTOR SHALL G, OR DUCTWORK IN SUCH A FASHION THAT IT
- EMS, OR REWORK EXISTING MECHANICAL NEW EQUIPMENT, PIPING, OR DUCTWORK. IAINTAIN EXISTING SYSTEMS IN SERVICE DURING STING MECHANICAL INSTALLATIONS THAT
- E SHUTTING DOWN ANY SYSTEM FOR ANY
- ONENTS THAT ARE TO REMAIN UNTIL NEW ITIL NEW SYSTEM IS COMPLETE AND READY FOR
- NLY TO MAKE SWITCHOVERS AND OWNER BEFORE PARTIALLY OR COMPLETELY NEW SYSTEMS WITH MINIMUM OUTAGE. EVICES AND EQUIPMENT SERVING EQUIPMENT

HASING NOTES:

ETS AND TRADES, INCLUDING BUT NOT LIMITED N, PIPING AND TEMPERATURE CONTROL.

- R GENERAL DESCRIPTION OF PHASES. REFER TO ETAILS, PHASING SCHEDULES AND FOR
- TRICAL AND TECHNOLOGY DRAWINGS DEPICT CHANICAL, ELECTRICAL, AND TECHNOLOGY D METHODS TO MEET THE REQUIREMENTS OF
- RDINATE DEMOLITION WORK, OUTAGES, ETC.
- 3. PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF
- PROJECT. 4. INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT

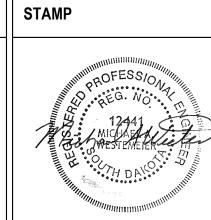
5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

ARCHITECT/ENGINEER OF RECORD



4

Suite 100 Plymouth, MN 55441 763-412-4000 (o) 763-412-4090 (f)





VA U.S. Depart of Veterans Affairs

5

	Drawing Title	Phase	Project Title	
of ion ties	PLUMBING COVER SHEET	CONSTRUCTION DOCUMENTS	CONSTRUCT L ADDITION	ABORA
ent	Approved:		Location SIOUX FALLS,	SOUTH
artment ans		FULLY SPRINKLERED	Issue Date 01/11/2019	Checked PETER

	PLUMBING GENERAL NOTES:
1.	THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR.

- CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT. 2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN
- THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
- 3. CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
- 4. ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874 5. INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY ALL ELEVATIONS BEFORE BEGINNING WORK.
- 6. VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
- 7. REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES. 8. FOR CLARITY, NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE SHUTOFF VALVES IN
- DOMESTIC WATER PIPING SERVING EACH ROOM WITH FIXTURES. ANGLE STOPS SHALL NOT BE CONSIDERED SHUTOFF VALVES.
- 9. EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED. REFER TO SPECIFICATION SECTION 22 05 05 FOR
- ADDITIONAL DEMOLITION INFORMATION. 10. G.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK
- UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL INFORMATION. 11. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SPECIFICATION SECTION 220511.1.4. CONSTRUCTION WORK SHALL NOT START ON ANY SYSTEM UNTIL THE LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE COR.

	SHEET INDEX - PLUMBING			
SHEET NO.	SHEET TITLE	SD ISSUE	DD ISSUE	CD ISSUE
P000	PLUMBING COVER SHEET			
P101	GROUND FLOOR PLAN - PLUMBING			
P111	1ST FLOOR PLAN - PLUMBING			
P121	2ND FLOOR PLAN - PLUMBING			
P150	ROOF PLAN - PLUMBING			
P300	PLUMBING DETAILS			
P400	ENLARGED PLANS - PLUMBING			
P401	PLUMBING ISOMETRIC VIEWS			
P500	PLUMBING SCHEDULES			

Δ

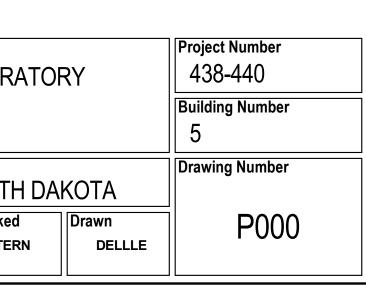
В

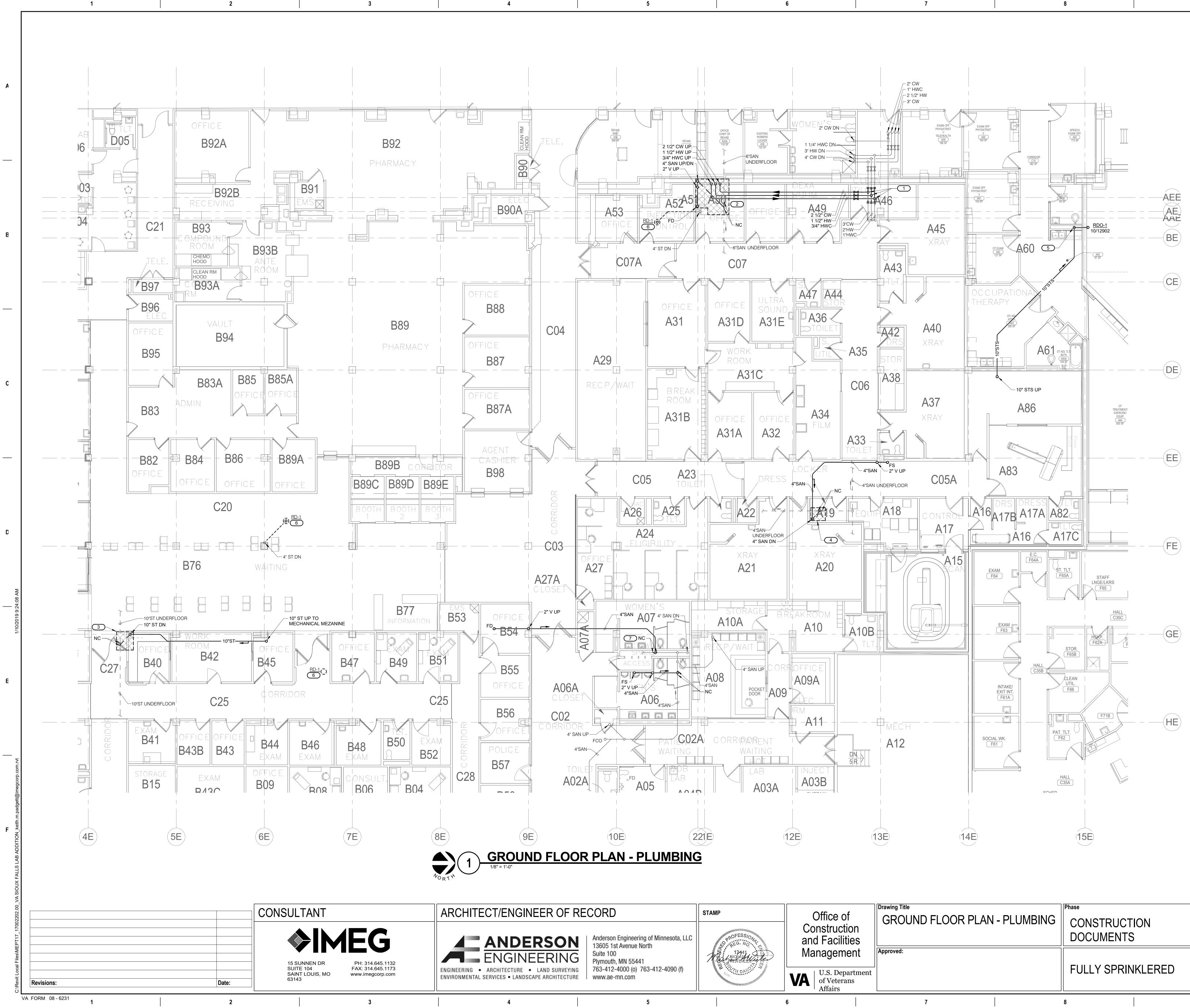
С

D

Е

F



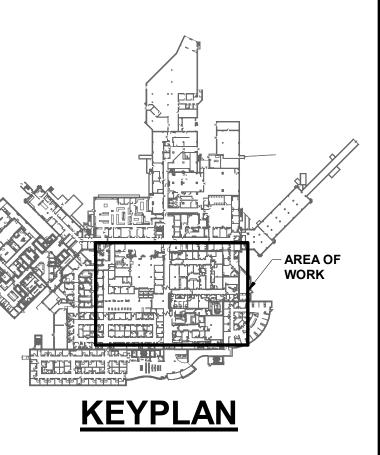


e of uction cilities	GROUND FLOOR PLAN	Phase CONSTRU DOCUMEN		Project Title CONSTRUCT L ADDITION	ABORATOR	Ϋ́
ement	Approved:			Location SIOUX FALLS, SOUTH DAKOTA		KOTA
Department terans 's		FULLY SPI	RINKLERED	Issue Date 01/11/2019	Checked PETERN	Drawn DELLL
	7	8		9		

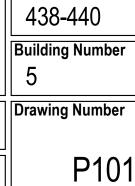
REFER TO P000 - PLUMBING COVERSHEET

GENERAL NOTES :

1. 2. 3. 4.	REFER TO POOD - PLUMBING COVERSHEET - FOR PLUMBING SYMBOLS LIST, ABBREVIATION KEY, AND GENERAL NOTES. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEDING. G.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW WORK. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL INFORMATION. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SPECIFICATION SECTION 22 05 11. CONSTRUCTION WORK SHALL NOT BEGIN UNTIL SYSTEM LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE COR. CONTRACTOR SHALL MINIMIZE DOWNTIME OF EXISTING SYSTEMS BY INSTALLING NEW SYSTEMS PRIOR TO TYING INTO EXISTING. NOTIFY COR A MINIMUM OF 24 HOURS PRIOR TO SYSTEM SHUTDOWN.	A
<u>КЕ</u> 1.	YNOTES: # MAKE NEW CONNECTIONS TO EXISTING CW.	
1.	HW, AND HWC MAINS. ROUTE NEW RISERS UP TO FIRST FLOOR INTERSTITIAL SPACE TO	
2.	SERVE NEW LAB ADDITION. SAW CUT EXISTING FLOOR IN OFFICE A50 AS REQUIRED AND CONNECT NEW 4" SANITARY TO EXISTING 6" SANITARY PIPE UNDER OFFICE	
3.	A50. SAW CUT EXISTING FLOOR IN OFFICE B40 AND C27 AS REQUIRED AND CONNECT NEW 10" STORM PIPE TO EXISTING 10" STORM LINE	
4.	UNDER CORRIDOR C27. SAW CUT EXISTING FLOOR IN A19 LOCKER AS REQUIRED AND CONNECT 4" SANITARY TO	В
5.	EXISTING 4" SANITARY PIPE UNDERFLOOR. ROUTE 10" STS DN IN EXISTING CHASE.	
	TERMINATE STS THROUGH RDO-1 AT EXTERIOR WALL OF CHASE. COORDINATE STS RISER AND RDO-1 WITH EXISTING PLUMBING	
	PIPING SERVING RESTROOM GROUP. RECONFIGURE EXISTING SANITARY AND VENT	
	SYSTEMS AS NECESSARY. GC SHALL DEMO CHASE WALL AS REQUIRED AND PATCH WALL TO MATCH EXISTING FOLLOWING COMPLETION	
6.	OF WORK. REMOVE EXISTING ROOF DRAIN. DEMOLISH	
	STORM PIPING BACK TO MAIN OR VERTICAL DROP AND CAP ABOVE CEILING. DO NOT DEMOLISH ANY BELOW GRADE STORM PIPING.	
7.	DEMOLISH EXISTING CHASE WALL AS NECESSARY FOR CONNECTING NEW SANITARY	
	PIPE INTO EXISTING SANITARY MAIN. GC SHALL PERFORM ANY REQUIRED DEMOLITION AND PATCH WALL TO MATCH EXISTING FOLLOWING	
	COMPLETION OF THIS WORK.	
		C



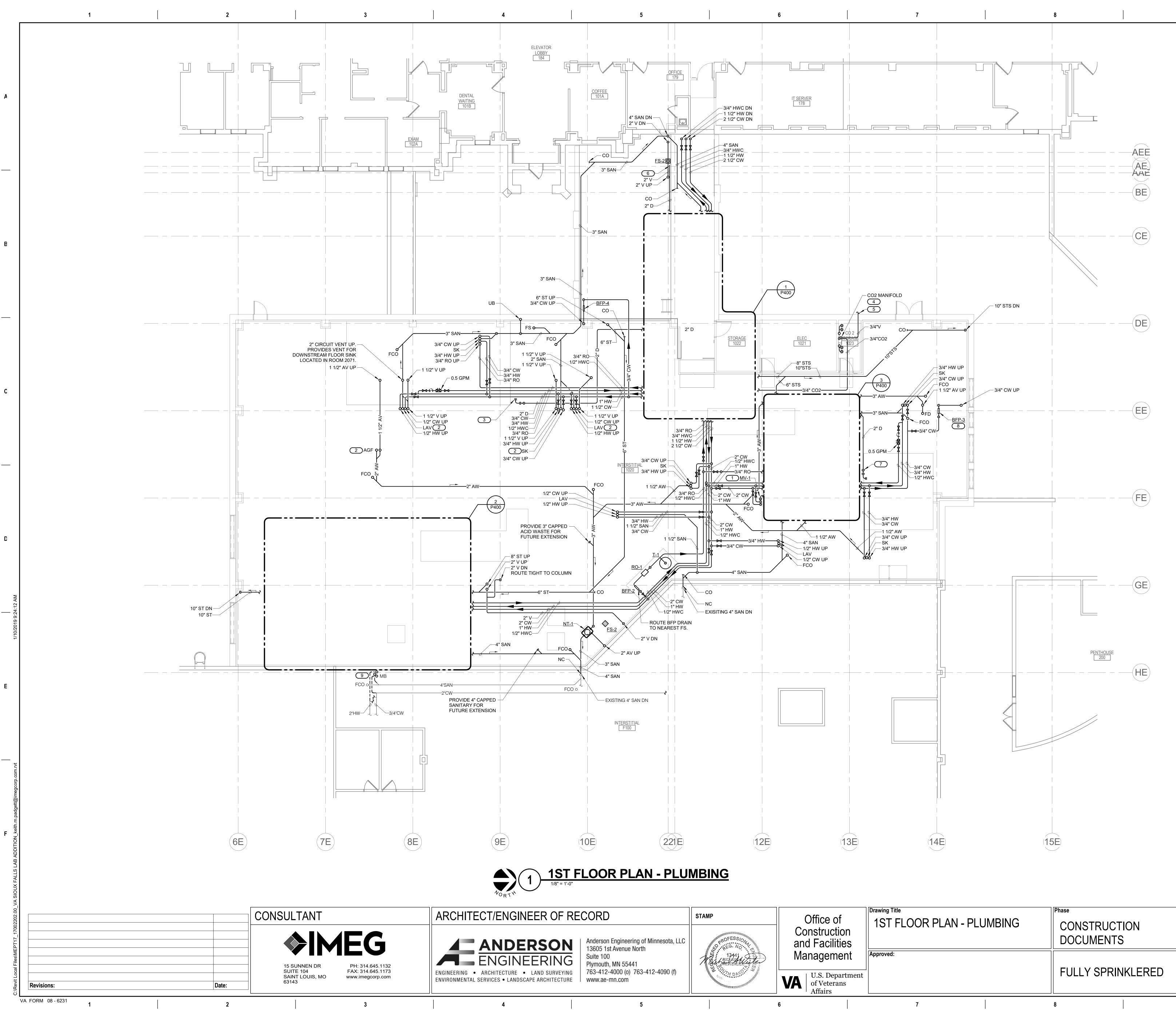




Project Number

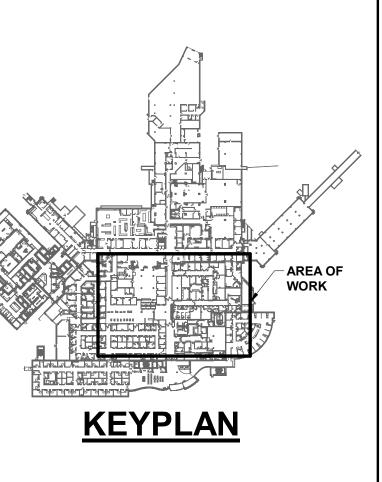


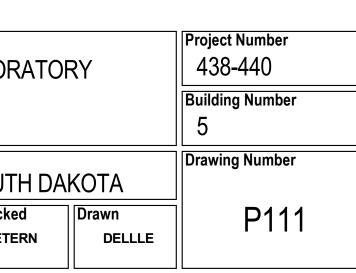
DELLLE

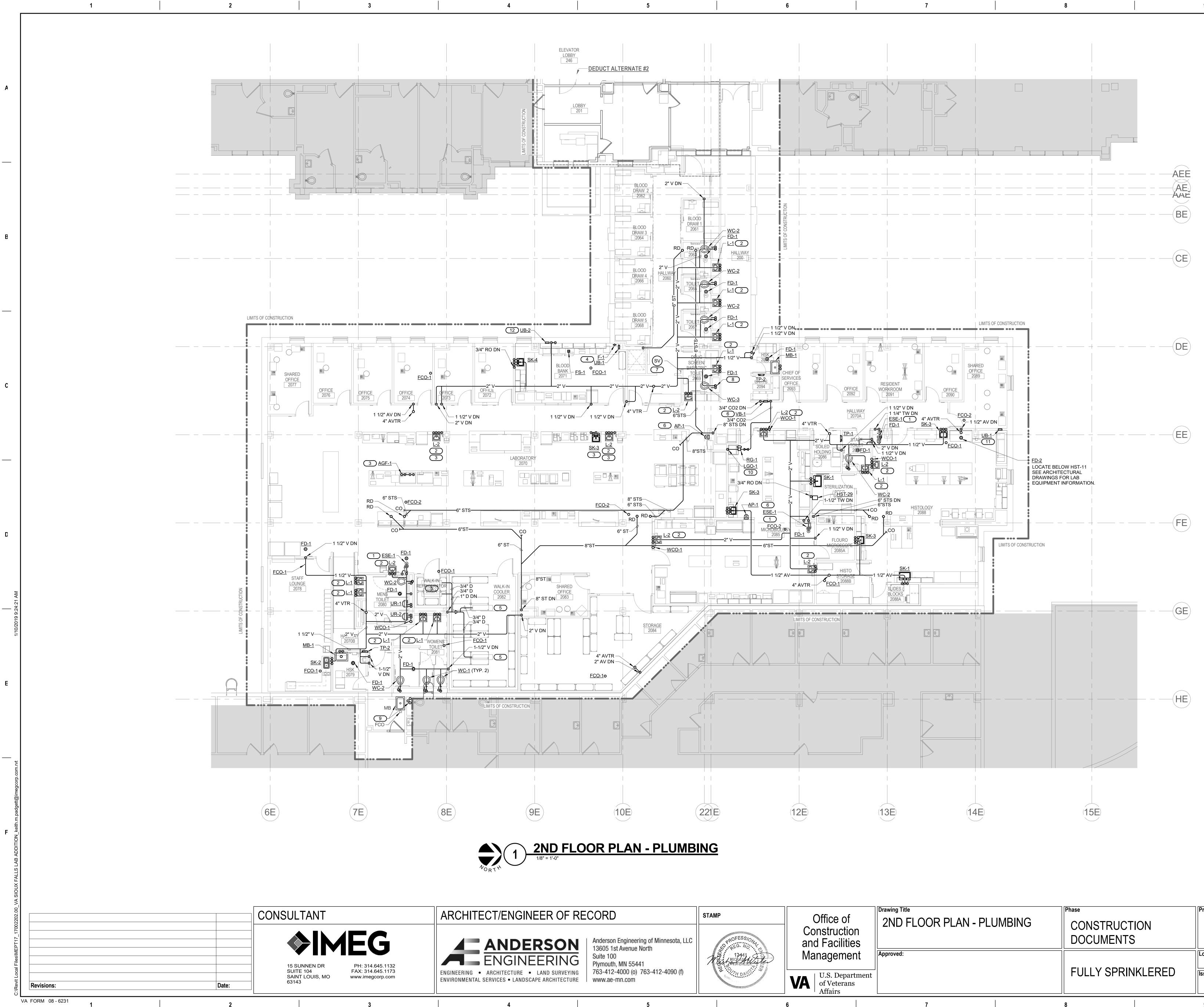


e of iction cilities	Drawing Title 1ST FLOOR PLAN - PLU	Phase CONSTRUCT DOCUMENTS		Project Title CONSTRUCT L/ ADDITION	ABOR/
Department terans	Approved:	FULLY SPRIN	NKLERED	Location SIOUX FALLS, S Issue Date 01/11/2019	SOUTH Checked PETER
	7	8		9	

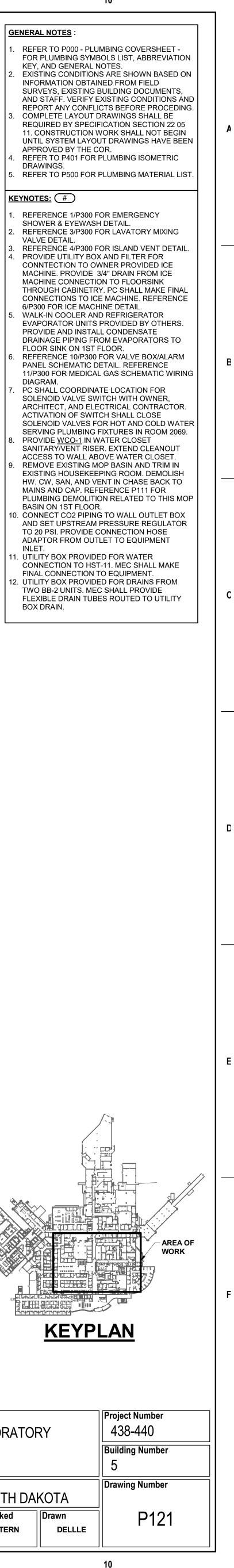
 GENERAL NOTES : REFER TO P000 - PLUMBING COVERSHEET - FOR PLUMBING SYMBOLS LIST, ABBREVIATION KEY, AND GENERAL NOTES. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEDING. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SPECIFICATION SECTION 22 05 11. CONSTRUCTION WORK SHALL NOT BEGIN UNTIL SYSTEM LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE COR. REFERENCE P401 FOR PLUMBING ISOMETRIC DRAWINGS. REFERENCE 8/P300 FOR WATER HAMMER ARRESTER LOCATION DETAIL. REFERENCE 500 FOR PLUMBING MATERIAL LIST. KEYNOTES: # MV-1 PROVIDED FOR EMERGENCY SHOWER/EYEWASH ON FLOOR ABOVE. MOUNT MIXING VALVE CABINET SECURELY TO STRUCTURAL COLUMN OR FABRICATED ANGLE IRON RACK. REFERENCE 1/P300 FOR EMERGENCY SHOWER & EYEWASH DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. REFER TO 4/P300 FOR SIAND VENT DETAIL. REFERENCE 5/P300 FOR CONDENSATE TRAPS FOR CONNECTION TO AHU-1 COOLING COIL DRAIN PAN AND HUMIDIFIER DRAIN PAN. TRAPS CAN DISCHARGE INTO COMMON 2" DRAIN PIPE AND BE ROUTED TO FLOOR SINK AS SHOWN. REFERENCE 5/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FICTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COLL DRAIN PAN. ROUTE 1" DRAIN TO FLOOR SINK AS SHOWN. ROUTE TIGHT TO AHU-2 COLL DRAIN PAN. ROUTE 1" DRAIN TO FLOOR SINK AS SHOWN. ROUTE TIGHT TO AHU-2 COLL DRAIN PAN. ROUTE 1" DRAIN TO FLOOR SINK AS SHOWN. ROUTE TIGHT TO AHU-2 COLL DRAIN PAN. ROUTE 1" DRAIN TO FLOOR SINK AS SHOWN. ROUTE TIGHT TO AHU-2 COLL DRAIN PAN.	 REFER TO P000 - PLUMBING COVERSHEET - FOR PLUMBING SYMBOLS LIST, ABBREVIATION KEY, AND GENERAL NOTES. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEDING. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SPECIFICATION SECTION 22 05 11. CONSTRUCTION WORK SHALL NOT BEGIN UNTIL SYSTEM LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE COR. REFERENCE P401 FOR PLUMBING ISOMETRIC DRAWINGS. REFERENCE 8/P300 FOR WATER HAMMER ARRESTER LOCATION DETAIL. REFERENCE 9500 FOR PLUMBING MATERIAL LIST. MV-1 PROVIDED FOR EMERGENCY SHOWER/EYEWASH ON FLOOR ABOVE. MOUNT MIXING VALVE CABINET SECURELY TO STRUCTURAL COLUMN OR FABRICATED ANGLE IRON RACK. REFERENCE 1/P300 FOR EMERGENCY SHOWER & EYEWASH DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. PC SHALL PROVIDE CONDENSATE TRAPS FOR CONNECTION TO AHU-1 COOLING COIL DRAIN PAN AND HUMIDIFIER DRAIN PAN. TRAPS CAN DISCHARGE INTO COMMON 2" DRAIN PIPE AND BE ROUTED TO FLOOR SINK AS SHOWN. REFERENCE 5/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. REFERENCE 5/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. REFERENCE 5/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FICTING. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FICTING. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FICTING. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FICTING. 		10
 REFER TO PO00 - PLUMBING COVERSHEET - FOR PLUMBING SYMBOLS LIST, ABBREVIATION KEY, AND GENERAL NOTES. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEDING. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SPECIFICATION SECTION 22 05 11. CONSTRUCTION WORK SHALL NOT BEGIN UNTIL SYSTEM LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE COR. REFERENCE P401 FOR PLUMBING ISOMETRIC DRAWINGS. REFERENCE 8/P300 FOR WATER HAMMER ARRESTER LOCATION DETAIL. REFERENCE 9500 FOR PLUMBING MATERIAL LIST. MV-1 PROVIDED FOR EMERGENCY SHOWER/EYEWASH ON FLOOR ABOVE. MOUNT MIXING VALVE CABINET SECURELY TO STRUCTURAL COLUMN OR FABRICATED ANGLE IRON RACK. REFERENCE 1/P300 FOR EMERGENCY SHOWER & EYEWASH DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. REFER TO 4/P300 FOR SLAND VENT DETAIL. REFER TO 4/P300 FOR SLAND VENT DETAIL. REFER TO 4/P300 FOR SLAND VENT DETAIL. REFER TO 4/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. REFERENCE 9/P300 FOR CONDENSATE TRAPS FOR CONNECTION TO AHU-1 COOLING COLL DRAIN PAN AND HUMIDIFIER DRAIN PAN. TRAPS CAN DISCHARGE INTO COMMON 2" DRAIN PIPE AND BE ROUTED TO FLOOR SINK AS SHOWN. REFERENCE 9/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. REFERENCE 9/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. REFERENCE 9/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE TIGHT TO AHU TO REDUCE TRIPPING 	 REFER TO P000 - PLUMBING COVERSHEET - FOR PLUMBING SYMBOLS LIST, ABBREVIATION KEY, AND GENERAL NOTES. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEDING. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SPECIFICATION SECTION 22 05 11. CONSTRUCTION WORK SHALL NOT BEGIN UNTIL SYSTEM LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE COR. REFERENCE P401 FOR PLUMBING ISOMETRIC DRAWINGS. REFERENCE B/P300 FOR WATER HAMMER ARRESTER LOCATION DETAIL. REFERENCE B/P300 FOR WATER HAMMER ARRESTER LOCATION DETAIL. REFERENCE P500 FOR PLUMBING MATERIAL LIST. MV-1 PROVIDED FOR EMERGENCY SHOWER/EYEWASH ON FLOOR ABOVE. MOUNT MIXING VALVE CABINET SECURELY TO STRUCTURAL COLUMN OR FABRICATED ANGLE IRON RACK. REFERENCE 1/P300 FOR EMERGENCY SHOWER & EYEWASH DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. PC SHALL PROVIDE CONDENSATE TRAPS FOR CONNECTION TO AHU-1 COOLING COIL DRAIN PAN AND HUMIDIFIER DRAIN PAN. TRAPS CAN DISCHARGE INTO COMMON 2" DRAIN PIPE AND BE ROUTED TO FLOOR SINK AS SHOWN. REFERENCE 5/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK AS SHOWN. ROUTE TIGHT TO AHU-2 COLL DRAIN PAN. ROUTE TIGHT. TO AHU-2 COLL DRAIN PAN. ROUTE TIGHT TO AHU-2 COLL TRIPPING HAZARD. REFERENCE 5/P300 FOR CONDENSATE TRAP DETAIL. MOUNT BACKFLOW PREVENTER ON STRUCTURAL COLUMN	GE	NERAL NOTES :
 KEY, AND GENERAL NOTES. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEDING. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SPECIFICATION SECTION 22 05 11. CONSTRUCTION WORK SHALL NOT BEGIN UNTIL SYSTEM LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE COR. REFERENCE P401 FOR PLUMBING ISOMETRIC DRAWINGS. REFERENCE 8/P300 FOR WATER HAMMER ARRESTER LOCATION DETAIL. REFERENCE P500 FOR PLUMBING MATERIAL LIST. KEYNOTES: # MV-1 PROVIDED FOR EMERGENCY SHOWER/EYEWASH ON FLOOR ABOVE. MOUNT MIXING VALVE CABINET SECURELY TO STRUCTURAL COLUMN OR FABRICATED ANGLE IRON RACK. REFERENCE 1/P300 FOR EMERGENCY SHOWER & EYEWASH DETAIL. REFERENCE JO FOR ISLAND VENT DETAIL. REFERENCE JON FOR ISLAND VENT DETAIL. REFERENCE JON FOR ISLAND VENT DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. REFER TO 4/P300 FOR SILAND VENT DETAIL. REFERENCE 5/P300 FOR CONDENSATE TRAPS CAN DISCHARGE INTO COMMON 2" DRAIN PIPE AND BE ROUTED TO FLOOR SINK AS SHOWN. REFERENCE 5/P300 FOR CONDENSATE TRAPS CAN DISCHARGE INTO COMMON 2" DRAIN PIPE AND BE ROUTED TO FLOOR SINK AS SHOWN. REFERENCE 5/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. C SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE 1" DRAIN TO FLOOR SINK AS SHOWN. ROUTE TIGHT TO AHU TO REDUCE TRIPPING 	 KEY, AND GENERAL NOTES. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEDING. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SPECIFICATION SECTION 22 05 11. CONSTRUCTION WORK SHALL NOT BEGIN UNTIL SYSTEM LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE COR. REFERENCE P401 FOR PLUMBING ISOMETRIC DRAWINGS. REFERENCE 8/P300 FOR WATER HAMMER ARRESTER LOCATION DETAIL. REFERENCE 8/P300 FOR PLUMBING MATERIAL LIST. KEYNOTES: # MV-1 PROVIDED FOR EMERGENCY SHOWER/EYEWASH ON FLOOR ABOVE. MOUNT MIXING VALVE CABINET SECURELY TO STRUCTURAL COLUMN OR FABRICATED ANGLE IRON RACK. REFERENCE 1/P300 FOR EMERGENCY SHOWER & EYEWASH DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. PC SHALL PROVIDE CONDENSATE TRAPS FOR CONNECTION TO AHU-1 COOLING COIL DRAIN PAN AND HUMIDIFIER DRAIN PAN. TRAPS CAN DISCHARGE INTO COMMON 2" DRAIN PIPE AND BE ROUTED TO FLOOR SINK AS SHOWN. REFERENCE 9/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FICTING. PC SHALL PROVIDE CONDENSATE TRAP DETAIL. REFERENCE 9/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FICTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE 1''DRAIN TO FLOOR SINK AS SHOWN. ROUTE TIGHT TO AHU TO REDUCE TRIPPING HAZARD. REFERENCE 5/P300 FOR CONDENSATE TRAP DETAIL. BOMOLISH HW, CW, AND SANITARY PIPING RELATED TO MOP BASIN ON FLOOR ABOVE. CAP PIPING AT MAINS TO PREVENTER ON STRUCTURAL COLUMN AT ACC		REFER TO P000 - PLUMBING COVERSHEET -
 REPORT ANY CONFLICTS BEFORE PROCEDING. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SPECIFICATION SECTION 22 05 11. CONSTRUCTION WORK SHALL NOT BEGIN UNTIL SYSTEM LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE COR. REFERENCE P401 FOR PLUMBING ISOMETRIC DRAWINGS. REFERENCE 8/P300 FOR WATER HAMMER ARRESTER LOCATION DETAIL. REFERENCE 500 FOR PLUMBING MATERIAL LIST. MV-1 PROVIDED FOR EMERGENCY SHOWER/EYEWASH ON FLOOR ABOVE. MOUNT MIXING VALVE CABINET SECURELY TO STRUCTURAL COLUMN OR FABRICATED ANGLE IRON RACK. REFERENCE 1/P300 FOR EMERGENCY SHOWER & EYEWASH DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. PC SHALL PROVIDE CONDENSATE TRAPS FOR CONNECTION TO AHU-1 COOLING COIL DRAIN PAN AND HUMIDIFIER DRAIN PAN. TRAPS CAN DISCHARGE INTO COMMON 2" DRAIN PIPE AND BE ROUTED TO FLOOR SINK AS SHOWN. REFERENCE 5/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITING. PC SHALL PROVIDE CONDENSATE TRAP DETAIL. REFERENCE 9/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE 1" DRAIN TO FLOOR SINK AS SHOWN. ROUTE TIGHT TO AHU 70 REDUCE TRIPPING 	 REPORT ANY CONFLICTS BEFORE PROCEDING. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SPECIFICATION SECTION 22 05 11. CONSTRUCTION WORK SHALL NOT BEGIN UNTIL SYSTEM LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE COR. REFERENCE P401 FOR PLUMBING ISOMETRIC DRAWINGS. REFERENCE 8/P300 FOR WATER HAMMER ARRESTER LOCATION DETAIL. REFERENCE 9500 FOR PLUMBING MATERIAL LIST. KEYNOTES: (#) MV-1 PROVIDED FOR EMERGENCY SHOWER/EYEWASH ON FLOOR ABOVE. MOUNT MIXING VALVE CABINET SECURELY TO STRUCTURAL COLUMN OR FABRICATED ANGLE IRON RACK. REFERENCE 1/P300 FOR EMERGENCY SHOWER & EYEWASH DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. PC SHALL PROVIDE CONDENSATE TRAPS FOR CONNECTION TO AHU-1 COOLING COIL DRAIN PAN AND HUMIDIFIER DRAIN PAN. TRAPS CAN DISCHARGE INTO COMMON 2" DRAIN PIPE AND BE ROUTED TO FLOOR SINK AS SHOWN. REFERENCE 5/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. REFERENCE 5/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONDENSATE TRAP DETAIL. MOUNT BACKFLOW PREVENTER ON STRUCTURAL COLUMN AT ACCESSIBLE HEIGHT. DEMOLISH HW, CW, AND SANITARY PIPING RELATED TO MOP BASIN ON FLOOR ABOVE. CAP PIPING AT MAINS TO PREVEN	2.	KEY, AND GENERAL NOTES. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS,
 APPROVED BY THE COR. REFERENCE P401 FOR PLUMBING ISOMETRIC DRAWINGS. REFERENCE 8/P300 FOR WATER HAMMER ARRESTER LOCATION DETAIL. REFERENCE P500 FOR PLUMBING MATERIAL LIST. KEYNOTES: # MV-1 PROVIDED FOR EMERGENCY SHOWER/EYEWASH ON FLOOR ABOVE. MOUNT MIXING VALVE CABINET SECURELY TO STRUCTURAL COLUMN OR FABRICATED ANGLE IRON RACK. REFERENCE 1/P300 FOR EMERGENCY SHOWER & EYEWASH DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. PC SHALL PROVIDE CONDENSATE TRAPS FOR CONNECTION TO AHU-1 COOLING COIL DRAIN PAN AND HUMIDIFIER DRAIN PAN. TRAPS CAN DISCHARGE INTO COMMON 2" DRAIN PIPE AND BE ROUTED TO FLOOR SINK AS SHOWN. REFERENCE 5/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. REFERENCE 9/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE 1" DRAIN TO FLOOR SINK AS SHOWN. ROUTE 1" DRAIN TO FLOOR SINK AS SHOWN. 	 APPROVED BY THE COR. REFERENCE P401 FOR PLUMBING ISOMETRIC DRAWINGS. REFERENCE 8/P300 FOR WATER HAMMER ARRESTER LOCATION DETAIL. REFERENCE P500 FOR PLUMBING MATERIAL LIST. MV-1 PROVIDED FOR EMERGENCY SHOWER/EYEWASH ON FLOOR ABOVE. MOUNT MIXING VALVE CABINET SECURELY TO STRUCTURAL COLUMN OR FABRICATED ANGLE IRON RACK. REFERENCE 1/P300 FOR EMERGENCY SHOWER & EYEWASH DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. PC SHALL PROVIDE CONDENSATE TRAPS FOR CONNECTION TO AHU-1 COOLING COIL DRAIN PAN AND HUMIDIFIER DRAIN PAN. TRAPS CAN DISCHARGE INTO COMMON 2" DRAIN PIPE AND BE ROUTED TO FLOOR SINK AS SHOWN. REFERENCE 5/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. REFERENCE 9/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. REFERENCE 9/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. REFERENCE 5/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. REFERENCE 5/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE TIGHT TO AHU TO REDUCE TRIPPING HAZARD. REFERENCE 5/P300 FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE TIGHT TO AHU TO REDUCE TRIPPING HAZARD. REFERENCE 5/P300 FOR CONDENSATE TRAP DETAIL. MOUNT BACKFLOW PREVENTER ON STRUCTURAL COLUMN AT ACCESSIBLE HEIGHT. DEMOLISH HW, CW, AND SANITARY PIPING RELATED TO MOP BASIN ON FLOOR ABOVE. CAP PIPING AT MAINS TO PREVENT DEAD LEGS. REFERENCE P121 FOR ADDITIONAL 	3.	REPORT ANY CONFLICTS BEFORE PROCEDING. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SPECIFICATION SECTION 22 05 11. CONSTRUCTION WORK SHALL NOT BEGIN
 ARRESTER LOCATION DETAIL. REFERENCE P500 FOR PLUMBING MATERIAL LIST. MV-1 PROVIDED FOR EMERGENCY SHOWER/EYEWASH ON FLOOR ABOVE. MOUNT MIXING VALVE CABINET SECURELY TO STRUCTURAL COLUMN OR FABRICATED ANGLE IRON RACK. REFERENCE 1/P300 FOR EMERGENCY SHOWER & EYEWASH DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. REFERENCE 5/P300 FOR ISLAND VENT DETAIL. REFERENCE 5/P300 FOR CONDENSATE TRAPS FOR CONNECTION TO AHU-1 COOLING COIL DRAIN PAN AND HUMIDIFIER DRAIN PAN. TRAPS CAN DISCHARGE INTO COMMON 2" DRAIN PIPE AND BE ROUTED TO FLOOR SINK AS SHOWN. REFERENCE 5/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE 1" DRAIN TO FLOOR SINK AS SHOWN. ROUTE TIGHT TO AHU TO REDUCE TRIPPING 	 ARRESTER LOCATION DETAIL. REFERENCE P500 FOR PLUMBING MATERIAL LIST. MV-1 PROVIDED FOR EMERGENCY SHOWER/EYEWASH ON FLOOR ABOVE. MOUNT MIXING VALVE CABINET SECURELY TO STRUCTURAL COLUMN OR FABRICATED ANGLE IRON RACK. REFERENCE 1/P300 FOR EMERGENCY SHOWER & EYEWASH DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. REFERENCE 5/P300 FOR SILAND VENT DETAIL. REFERENCE 5/P300 FOR CONDENSATE TRAPS FOR CONNECTION TO AHU-1 COOLING COIL DRAIN PAN AND HUMIDIFIER DRAIN PAN. TRAPS CAN DISCHARGE INTO COMMON 2" DRAIN PIPE AND BE ROUTED TO FLOOR SINK AS SHOWN. REFERENCE 5/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE 1 DRAIN TO FLOOR SINK AS SHOWN. ROUTE TIGHT TO AHU TO REDUCE TRIPPING HAZARD. REFERENCE 5/P300 FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE 1 TO AHU TO REDUCE TRIPPING HAZARD. REFERENCE 5/P300 FOR CONDENSATE TRAP DETAIL. MOUNT BACKFLOW PREVENTER ON STRUCTURAL COLUMN AT ACCESSIBLE HEIGHT. DEMOLISH HW, CW, AND SANITARY PIPING RELATED TO MOP BASIN ON FLOOR ABOVE. CAP PIPING AT MAINS TO PREVENT DEAD LEGS. REFERENCE P121 FOR ADDITIONAL 		APPROVED BY THE COR. REFERENCE P401 FOR PLUMBING ISOMETRIC DRAWINGS.
 MV-1 PROVIDED FOR EMERGENCY SHOWER/EYEWASH ON FLOOR ABOVE. MOUNT MIXING VALVE CABINET SECURELY TO STRUCTURAL COLUMN OR FABRICATED ANGLE IRON RACK. REFERENCE 1/P300 FOR EMERGENCY SHOWER & EYEWASH DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. PC SHALL PROVIDE CONDENSATE TRAPS FOR CONNECTION TO AHU-1 COOLING COIL DRAIN PAN AND HUMIDIFIER DRAIN PAN. TRAPS CAN DISCHARGE INTO COMMON 2" DRAIN PIPE AND BE ROUTED TO FLOOR SINK AS SHOWN. REFERENCE 5/P300 FOR CONDENSATE TRAP DETAIL. REFERENCE 9/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE 1" DRAIN TO FLOOR SINK AS SHOWN. ROUTE TIGHT TO AHU TO REDUCE TRIPPING 	 MV-1 PROVIDED FOR EMERGENCY SHOWER/EYEWASH ON FLOOR ABOVE. MOUNT MIXING VALVE CABINET SECURELY TO STRUCTURAL COLUMN OR FABRICATED ANGLE IRON RACK. REFERENCE 1/P300 FOR EMERGENCY SHOWER & EYEWASH DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. PC SHALL PROVIDE CONDENSATE TRAPS FOR CONNECTION TO AHU-1 COOLING COIL DRAIN PAN AND HUMIDIFIER DRAIN PAN. TRAPS CAN DISCHARGE INTO COMMON 2" DRAIN PIPE AND BE ROUTED TO FLOOR SINK AS SHOWN. REFERENCE 5/P300 FOR CONDENSATE TRAP DETAIL. REFERENCE 9/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE 1" DRAIN TO FLOOR SINK AS SHOWN. ROUTE TIGHT TO AHU TO REDUCE TRIPPING HAZARD. REFERENCE 5/P300 FOR CONDENSATE TRAP DETAIL. MOUNT BACKFLOW PREVENTER ON STRUCTURAL COLUMN AT ACCESSIBLE HEIGHT. DEMOLISH HW, CW, AND SANITARY PIPING RELATED TO MOP BASIN ON FLOOR ABOVE. CAP PIPING AT MAINS TO PREVENT DEAD LEGS. REFERENCE P121 FOR ADDITIONAL 		ARRESTER LOCATION DETAIL. REFERENCE P500 FOR PLUMBING MATERIAL
 SHOWER/EYEWASH ON FLOOR ABOVE. MOUNT MIXING VALVE CABINET SECURELY TO STRUCTURAL COLUMN OR FABRICATED ANGLE IRON RACK. REFERENCE 1/P300 FOR EMERGENCY SHOWER & EYEWASH DETAIL. 2. REFER TO 4/P300 FOR ISLAND VENT DETAIL. 3. PC SHALL PROVIDE CONDENSATE TRAPS FOR CONNECTION TO AHU-1 COOLING COIL DRAIN PAN AND HUMIDIFIER DRAIN PAN. TRAPS CAN DISCHARGE INTO COMMON 2" DRAIN PIPE AND BE ROUTED TO FLOOR SINK AS SHOWN. REFERENCE 5/P300 FOR CONDENSATE TRAP DETAIL. 4. REFERENCE 9/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. 5. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. 6. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. 7. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE 1" DRAIN TO FLOOR SINK AS SHOWN. 	 SHOWER/EYEWASH ON FLOOR ABOVE. MOUNT MIXING VALVE CABINET SECURELY TO STRUCTURAL COLUMN OR FABRICATED ANGLE IRON RACK. REFERENCE 1/P300 FOR EMERGENCY SHOWER & EYEWASH DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. PC SHALL PROVIDE CONDENSATE TRAPS FOR CONNECTION TO AHU-1 COOLING COIL DRAIN PAN AND HUMIDIFIER DRAIN PAN. TRAPS CAN DISCHARGE INTO COMMON 2" DRAIN PIPE AND BE ROUTED TO FLOOR SINK AS SHOWN. REFERENCE 5/P300 FOR CONDENSATE TRAP DETAIL. REFERENCE 9/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE 1" DRAIN TO FLOOR SINK AS SHOWN. ROUTE TIGHT TO AHU TO REDUCE TRIPPING HAZARD. REFERENCE 5/P300 FOR CONDENSATE TRAP DETAIL. MOUNT BACKFLOW PREVENTER ON STRUCTURAL COLUMN AT ACCESSIBLE HEIGHT. DEMOLISH HW, CW, AND SANITARY PIPING RELATED TO MOP BASIN ON FLOOR ABOVE. CAP PIPING AT MAINS TO PREVENT DEAD LEGS. REFERENCE P121 FOR ADDITIONAL 	KE	YNOTES: (#)
 REFERENCE 5/P300 FOR CONDENSATE TRAP DETAIL. REFERENCE 9/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE 1" DRAIN TO FLOOR SINK AS SHOWN. ROUTE TIGHT TO AHU TO REDUCE TRIPPING 	 REFERENCE 5/P300 FOR CONDENSATE TRAP DETAIL. REFERENCE 9/P300 FOR MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM DETAIL. SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE 1" DRAIN TO FLOOR SINK AS SHOWN. ROUTE TIGHT TO AHU TO REDUCE TRIPPING HAZARD. REFERENCE 5/P300 FOR CONDENSATE TRAP DETAIL. MOUNT BACKFLOW PREVENTER ON STRUCTURAL COLUMN AT ACCESSIBLE HEIGHT. DEMOLISH HW, CW, AND SANITARY PIPING RELATED TO MOP BASIN ON FLOOR ABOVE. CAP PIPING AT MAINS TO PREVENT DEAD LEGS. REFERENCE P121 FOR ADDITIONAL 	2.	SHOWER/EYEWASH ON FLOOR ABOVE. MOUNT MIXING VALVE CABINET SECURELY TO STRUCTURAL COLUMN OR FABRICATED ANGLE IRON RACK. REFERENCE 1/P300 FOR EMERGENCY SHOWER & EYEWASH DETAIL. REFER TO 4/P300 FOR ISLAND VENT DETAIL. PC SHALL PROVIDE CONDENSATE TRAPS FOR CONNECTION TO AHU-1 COOLING COIL DRAIN PAN AND HUMIDIFIER DRAIN PAN. TRAPS CAN DISCHARGE INTO COMMON 2" DRAIN PIPE AND
 SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE 1" DRAIN TO FLOOR SINK AS SHOWN. ROUTE TIGHT TO AHU TO REDUCE TRIPPING 	 SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH BIRD SCREEN. DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE 1" DRAIN TO FLOOR SINK AS SHOWN. ROUTE TIGHT TO AHU TO REDUCE TRIPPING HAZARD. REFERENCE 5/P300 FOR CONDENSATE TRAP DETAIL. MOUNT BACKFLOW PREVENTER ON STRUCTURAL COLUMN AT ACCESSIBLE HEIGHT. DEMOLISH HW, CW, AND SANITARY PIPING RELATED TO MOP BASIN ON FLOOR ABOVE. CAP PIPING AT MAINS TO PREVENT DEAD LEGS. REFERENCE P121 FOR ADDITIONAL 	4.	REFERENCE 5/P300 FOR CONDENSATE TRAP DETAIL. REFERENCE 9/P300 FOR MEDICAL GAS
 DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE 1" DRAIN TO FLOOR SINK AS SHOWN. ROUTE TIGHT TO AHU TO REDUCE TRIPPING 	 DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN. ROUTE 1" DRAIN TO FLOOR SINK AS SHOWN. ROUTE TIGHT TO AHU TO REDUCE TRIPPING HAZARD. REFERENCE 5/P300 FOR CONDENSATE TRAP DETAIL. MOUNT BACKFLOW PREVENTER ON STRUCTURAL COLUMN AT ACCESSIBLE HEIGHT. DEMOLISH HW, CW, AND SANITARY PIPING RELATED TO MOP BASIN ON FLOOR ABOVE. CAP PIPING AT MAINS TO PREVENT DEAD LEGS. REFERENCE P121 FOR ADDITIONAL 	5.	SEAL CO2 MANIFOLD VENT WALL TERMINATION WEATHER TIGHT. TERMINATE VENT THROUGH 90° LONG RADIUS ELBOW FACING DOWN WITH
ROUTE TIGHT TO AHU TO REDUCE TRIPPING	 ROUTE TIGHT TO AHU TO REDUCE TRIPPING HAZARD. REFERENCE 5/P300 FOR CONDENSATE TRAP DETAIL. MOUNT BACKFLOW PREVENTER ON STRUCTURAL COLUMN AT ACCESSIBLE HEIGHT. DEMOLISH HW, CW, AND SANITARY PIPING RELATED TO MOP BASIN ON FLOOR ABOVE. CAP PIPING AT MAINS TO PREVENT DEAD LEGS. REFERENCE P121 FOR ADDITIONAL 	-	DISCHARGE 2" DRAIN INTO FLOOR SINK THROUGH 45° ELBOW FITTING. PC SHALL PROVIDE CONDENSATE TRAP FOR CONNECTION TO AHU-2 COIL DRAIN PAN.
CONDENSATE TRAP DETAIL. 8. MOUNT BACKFLOW PREVENTER ON	9. DEMOLISH HW, CW, AND SANITARY PIPING RELATED TO MOP BASIN ON FLOOR ABOVE. CAP PIPING AT MAINS TO PREVENT DEAD LEGS. REFERENCE P121 FOR ADDITIONAL	8.	ROUTE TIGHT TO AHU TO REDUCE TRIPPING HAZARD. REFERENCE 5/P300 FOR CONDENSATE TRAP DETAIL. MOUNT BACKFLOW PREVENTER ON
9. DEMOLISH HW, CW, AND SANITARY PIPING RELATED TO MOP BASIN ON FLOOR ABOVE. CAP PIPING AT MAINS TO PREVENT DEAD		9.	DEMOLISH HW, CW, AND SANITARY PIPING RELATED TO MOP BASIN ON FLOOR ABOVE. CAP PIPING AT MAINS TO PREVENT DEAD

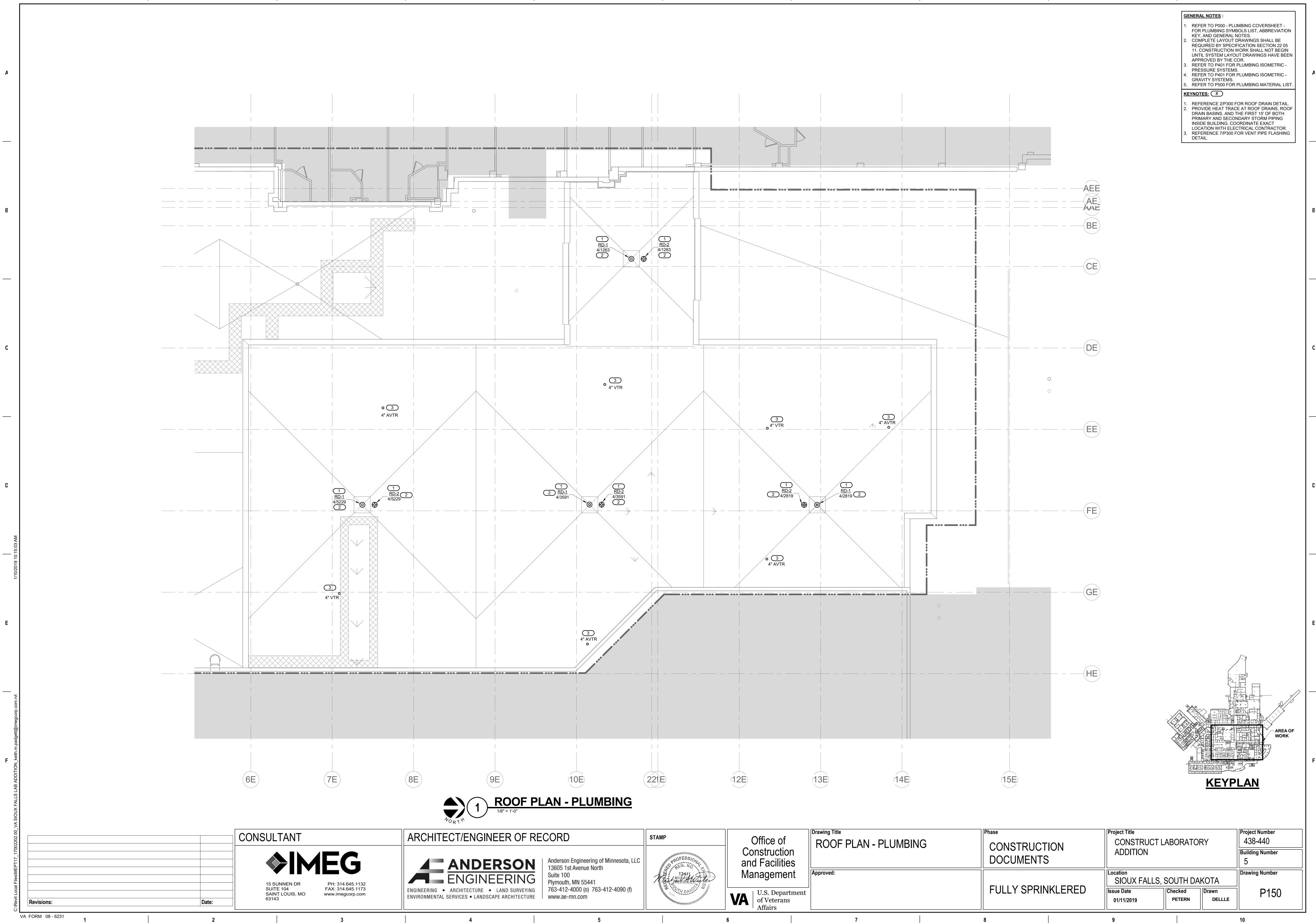




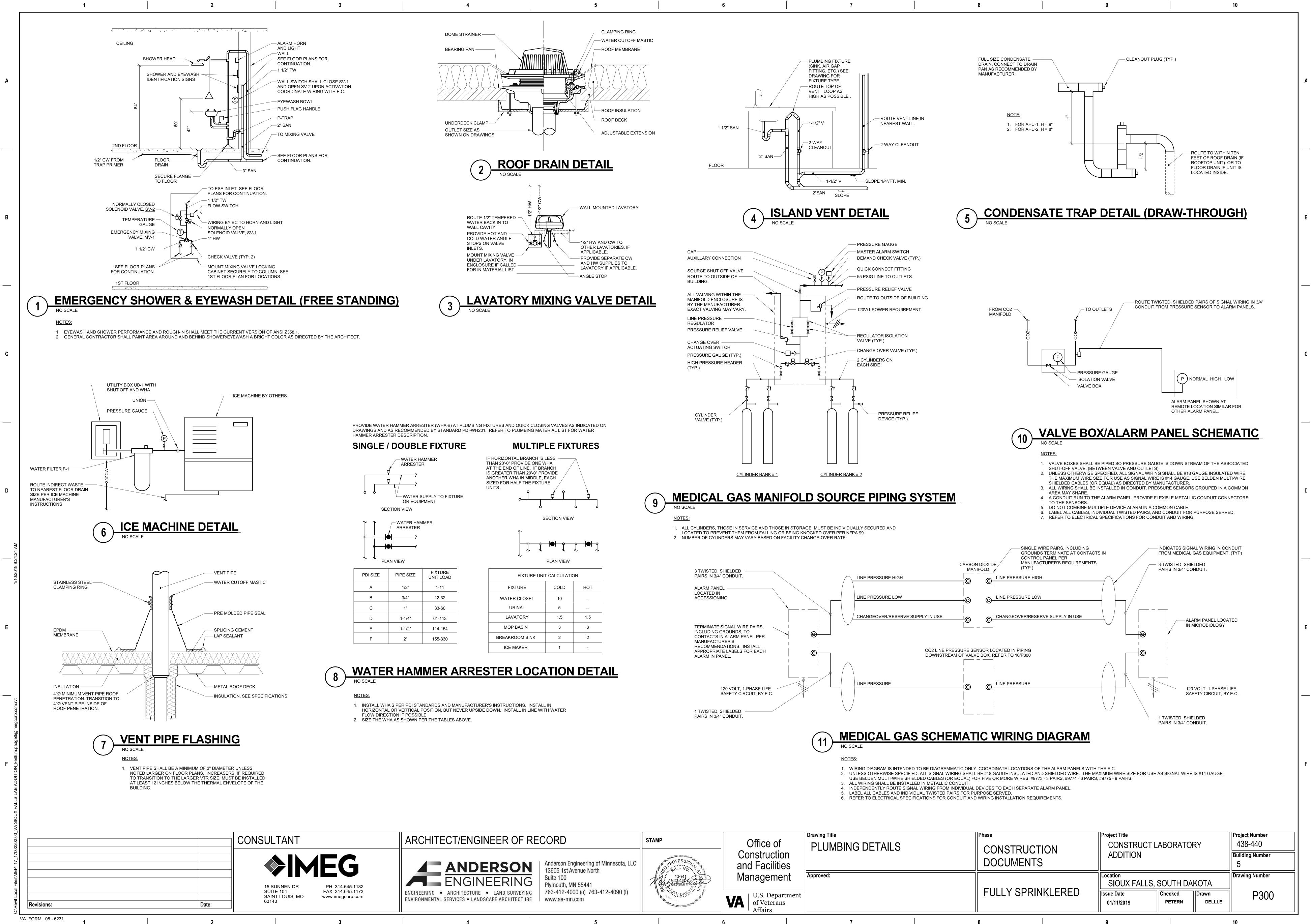


e of uction cilities	Drawing Title 2ND FLOOR PLAN - F	PLUMBING		TRUCTION MENTS	Project Title CONSTRUC ADDITION	T LABORA
Department terans	Approved:		FULLY	FULLY SPRINKLERED		S, SOUTH
	7		8		9	





e of ction ilities	Drawing Title ROOF PLAN - PLUMBING	Phase CONSTRUCTION DOCUMENTS	Project Title CONSTRUCT LA ADDITION	4BORA
ment	Approved:	FULLY SPRINKLERED	Location SIOUX FALLS, S Issue Date	SOUTH Checked
Department erans s			01/11/2019	PETERN
	7	8	9	



		CARBON DIOXIDE MANIFOLD	— SINGLE WIRE PAIRS, INCLUDING GROUNDS TERMINATE AT CONTACT CONTROL PANEL PER MANUFACTURER'S REQUIREMENTS. (TYP.)	TS IN FR(DICAT OM M WIST
			RESSURE HIGH		
	LINE PRESSURE LOW		RESSURE LOW		
	CHANGEOVER/RESERVE SUPPLY IN USE		EOVER/RESERVE SUPPLY IN USE		
		SSURE SENSOR LOCATED I			
	LINE PRESSURE	 LINE PR	RESSURE		
					WIST
\frown					

of ction lities	Drawing Title PLUMBING DETAILS		Phase CONSTRUCTION DOCUMENTS		Project Title CONSTRUCT LABOR ADDITION	
	Approved:		FULLY SPRI	NKLERED	Location SIOUX FALLS Issue Date 01/11/2019	, SOUT Checke PETE
	7		8		9	