

GM/SPEC DWN CHKDSUPV APVD BY

REVISIONS

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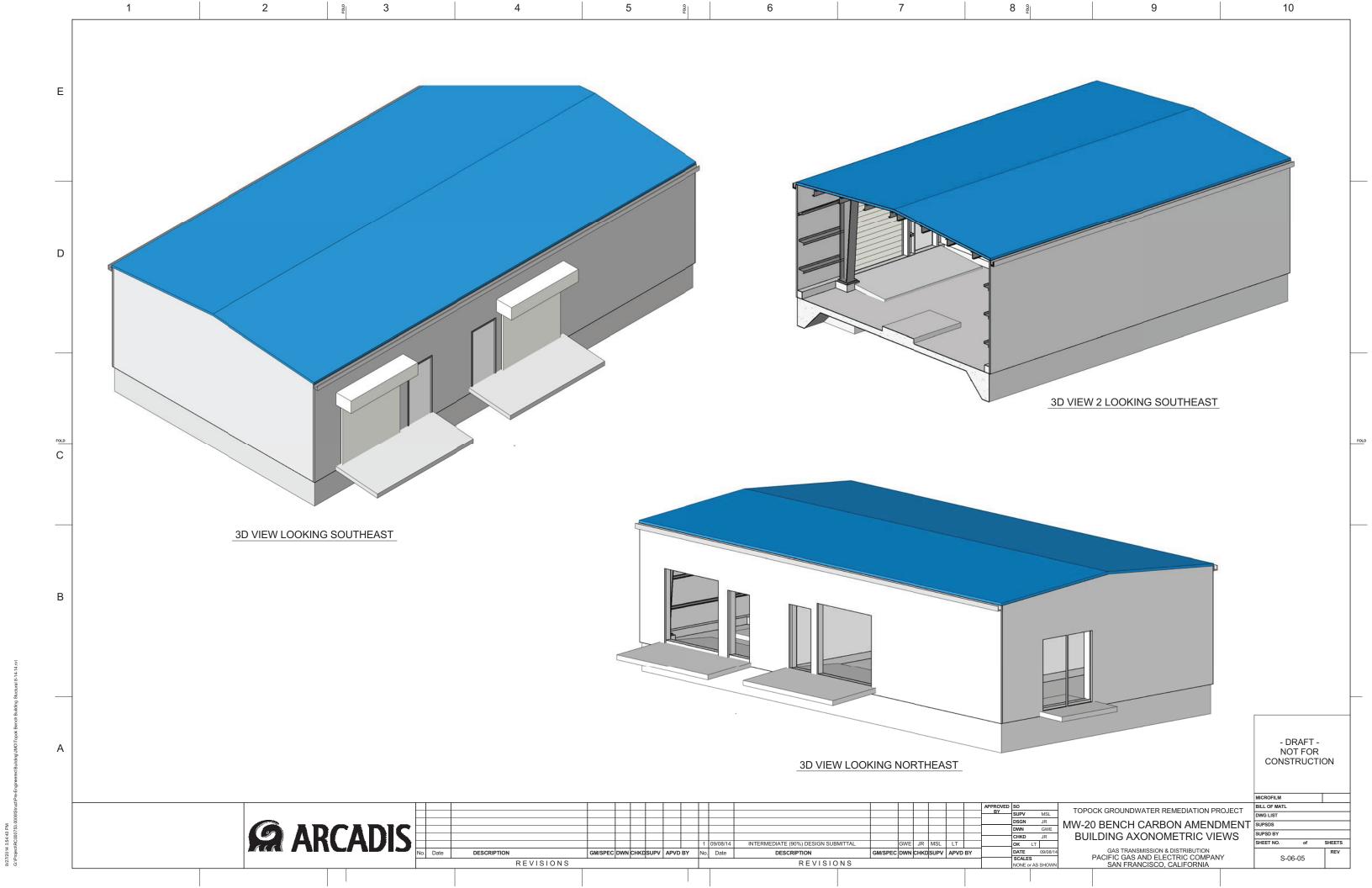
PACIFIC GAS AND ELECTRIC COMPANY SAN FRANCISCO, CALIFORNIA

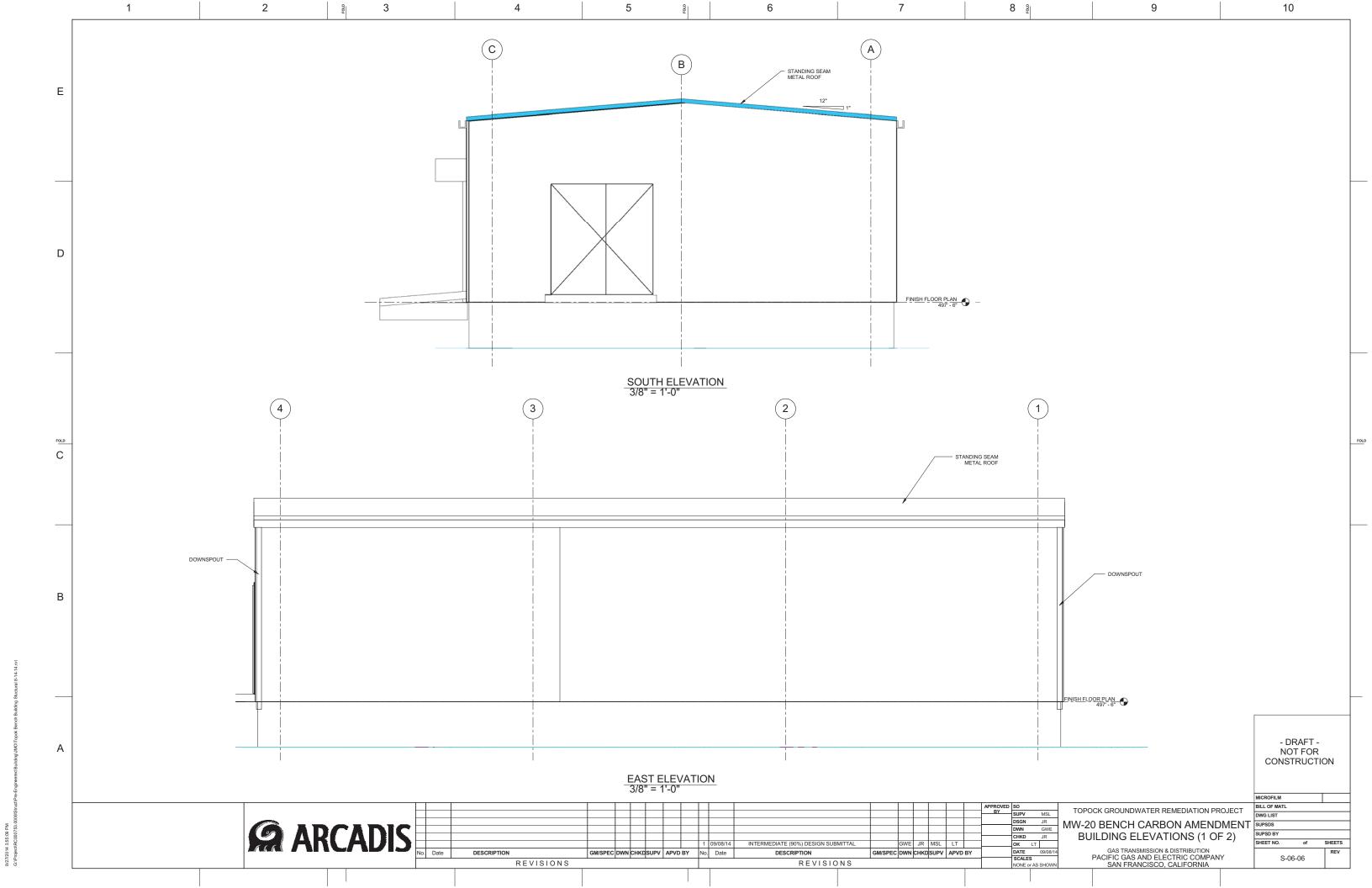
GM/SPEC DWN CHKD SUPV APVD BY

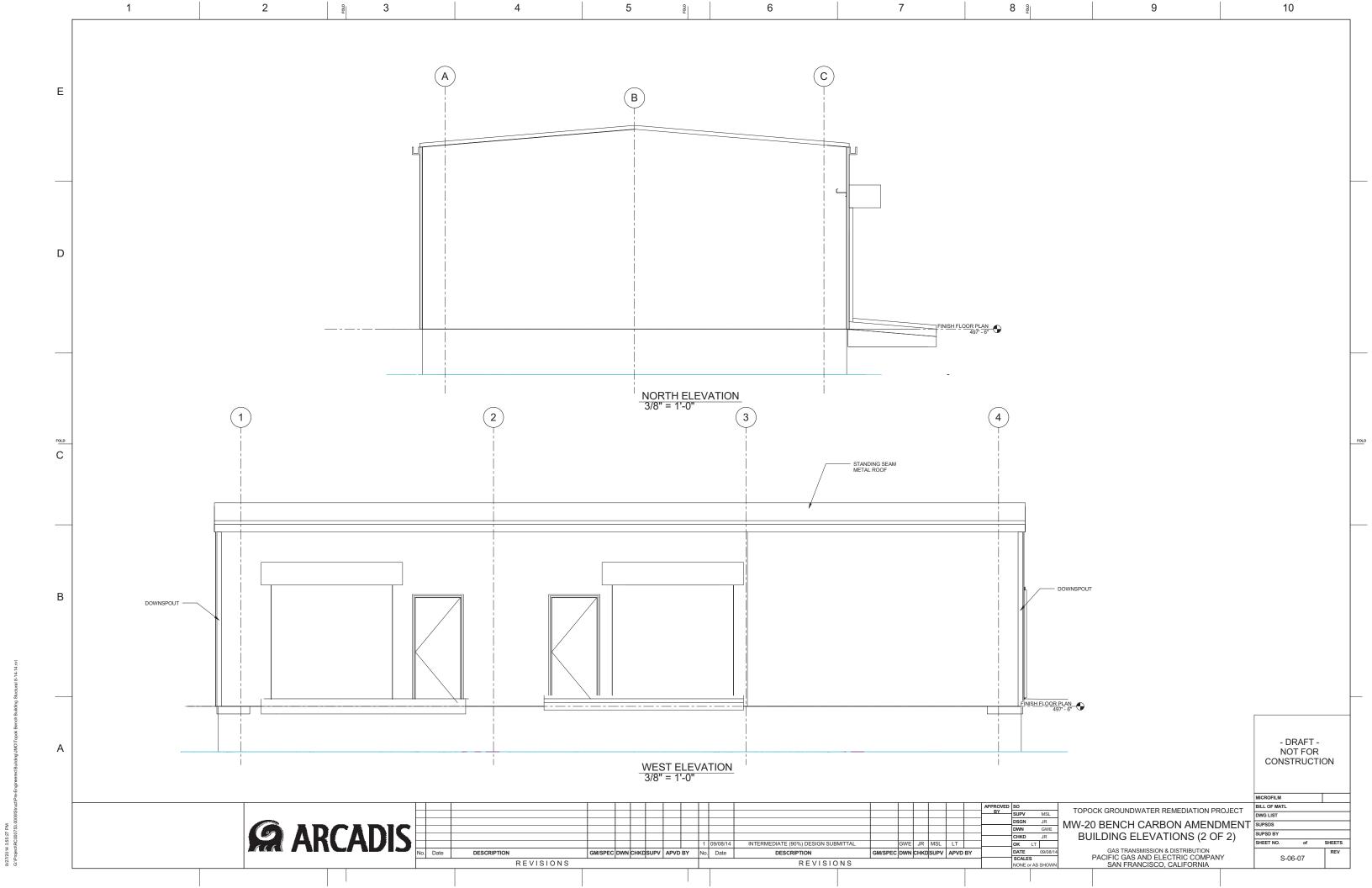
REVISIONS

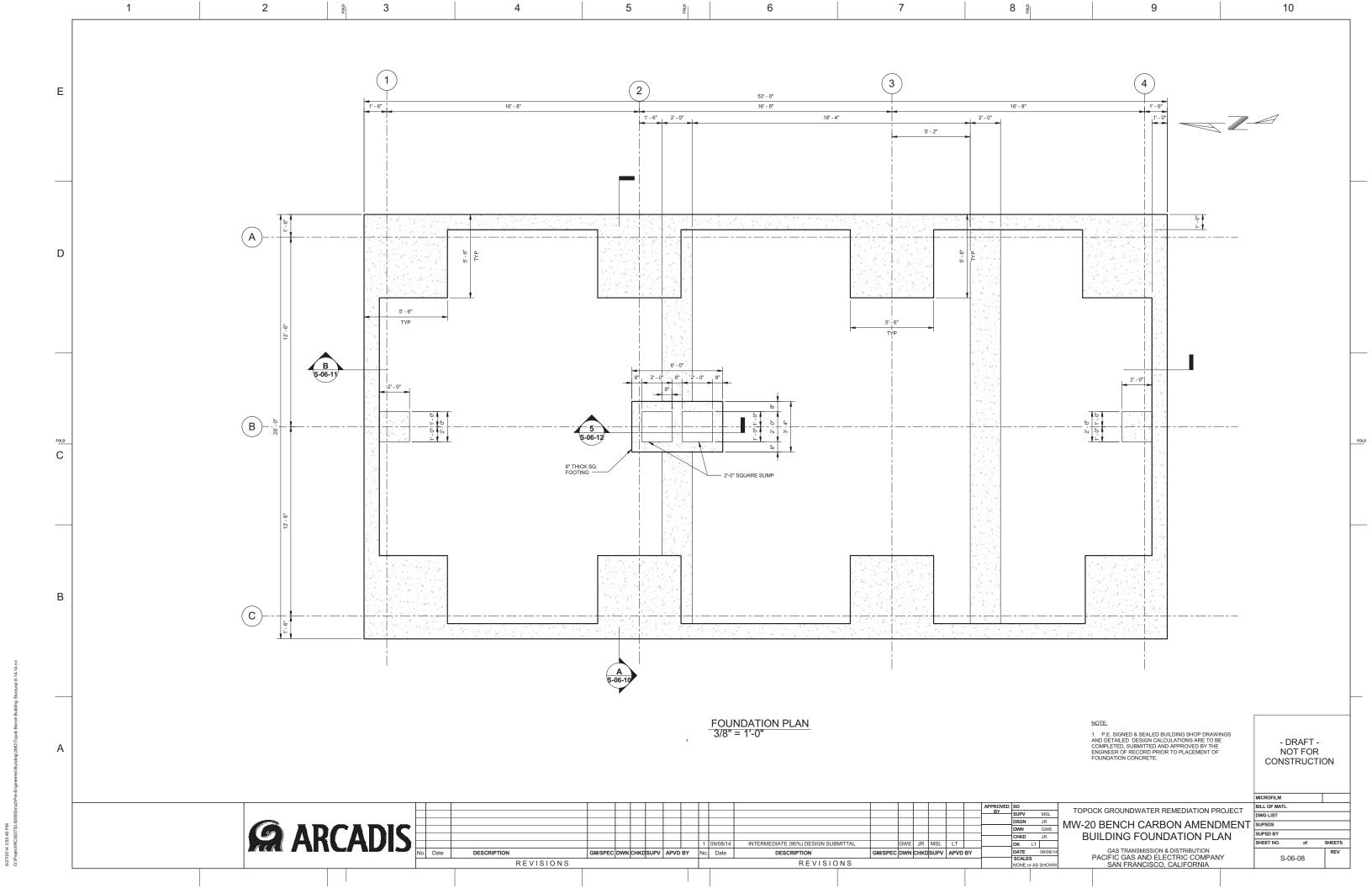
SCALES

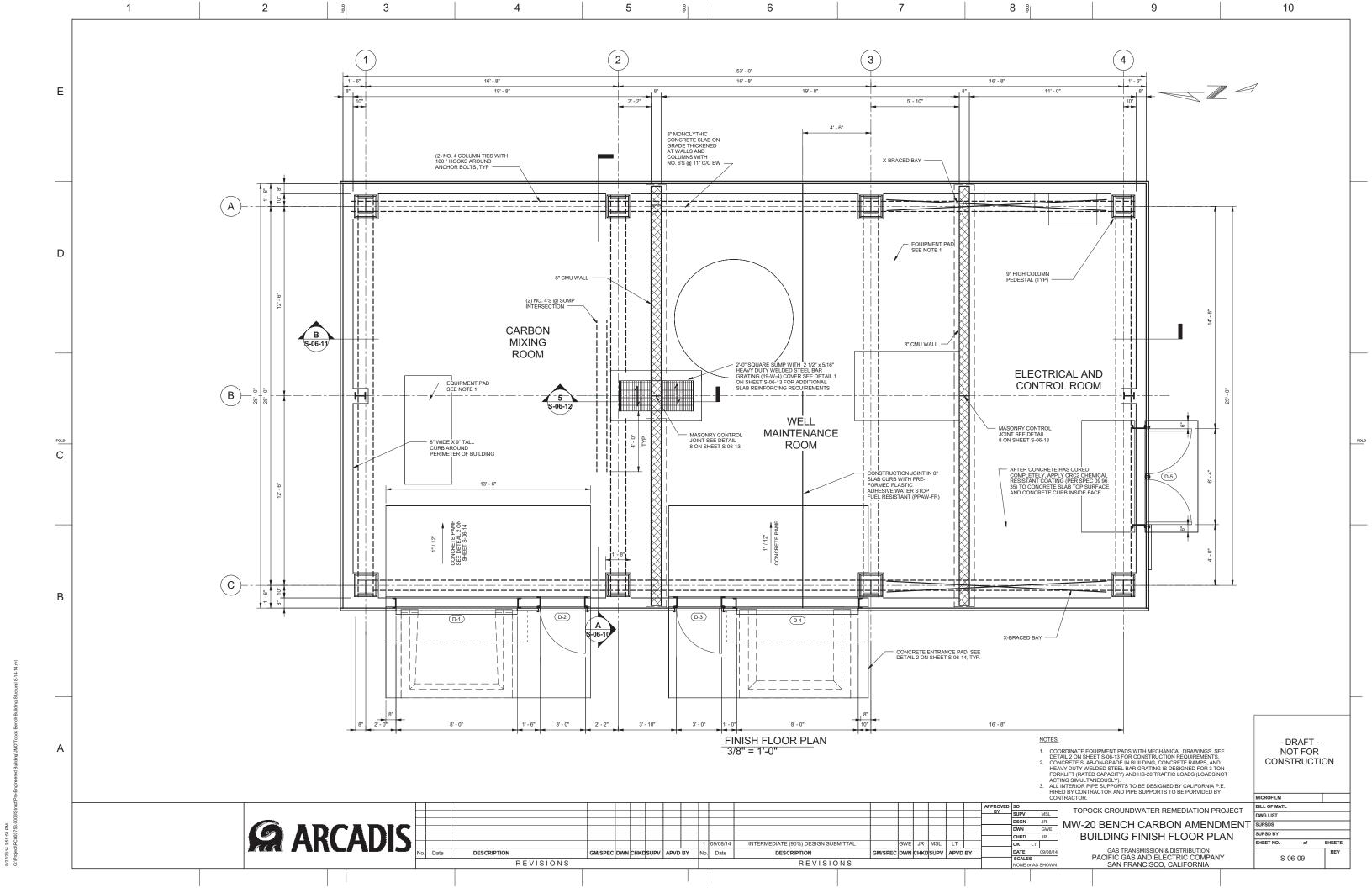
SHEETS S-06-04

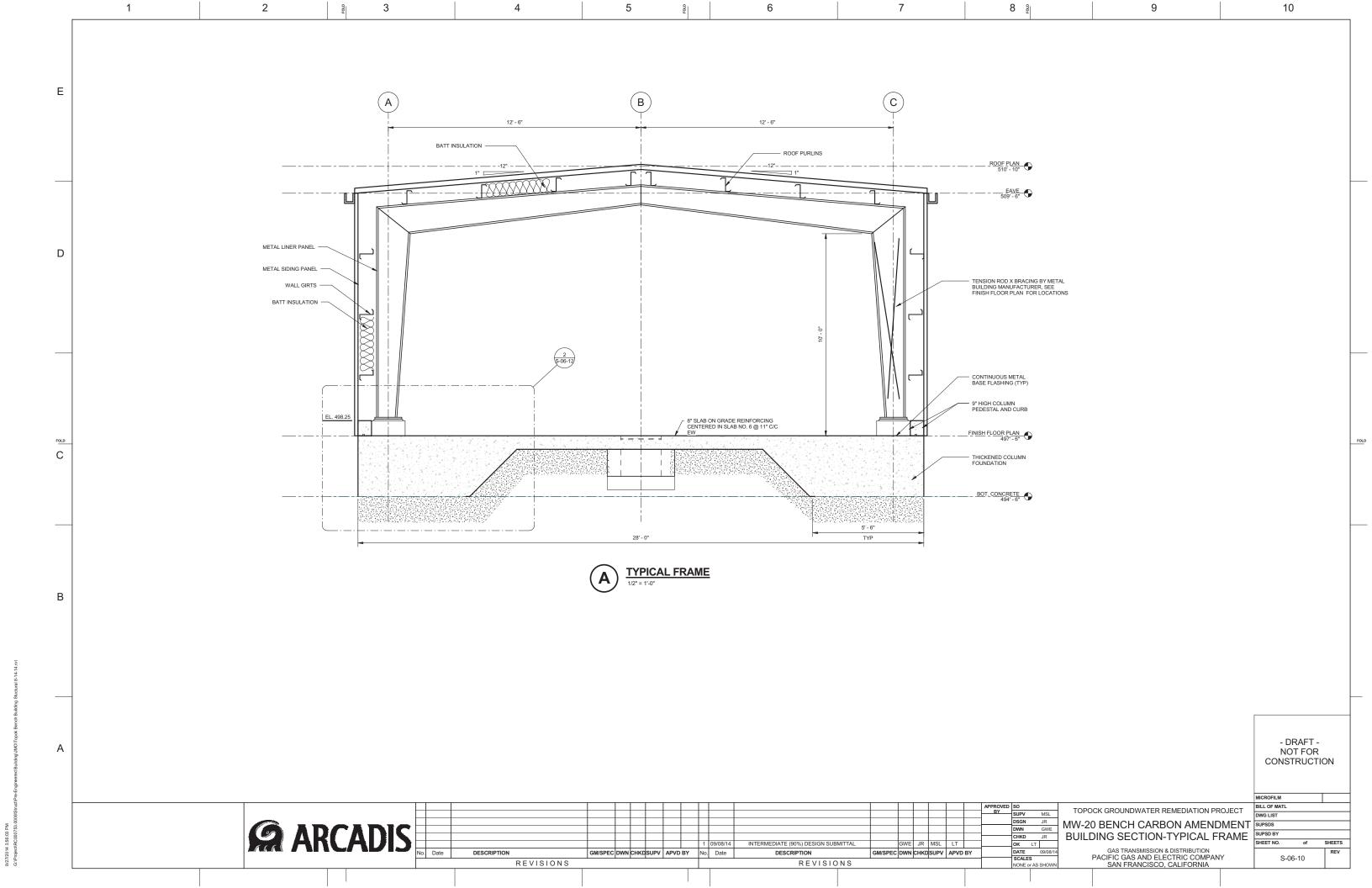


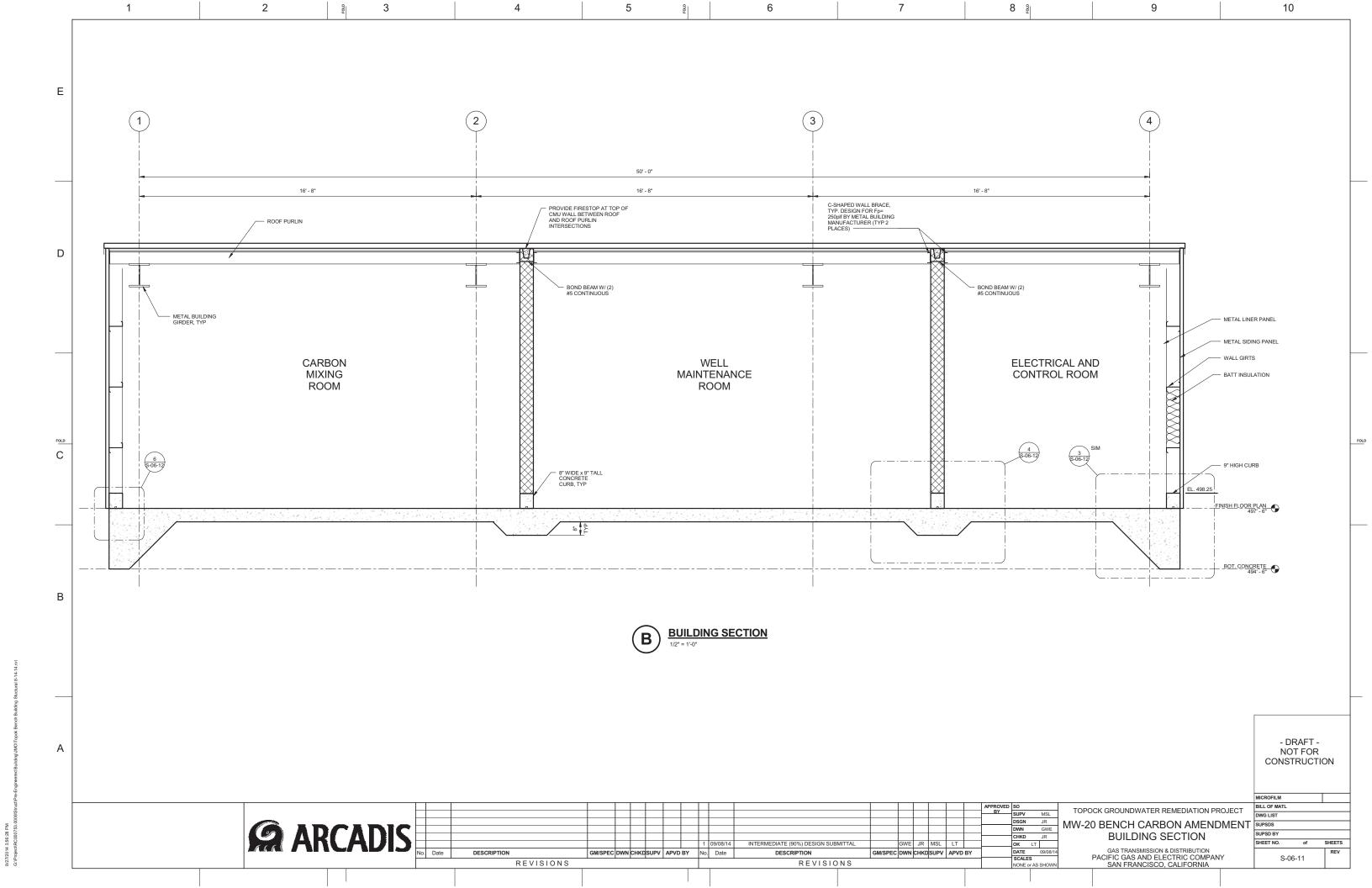


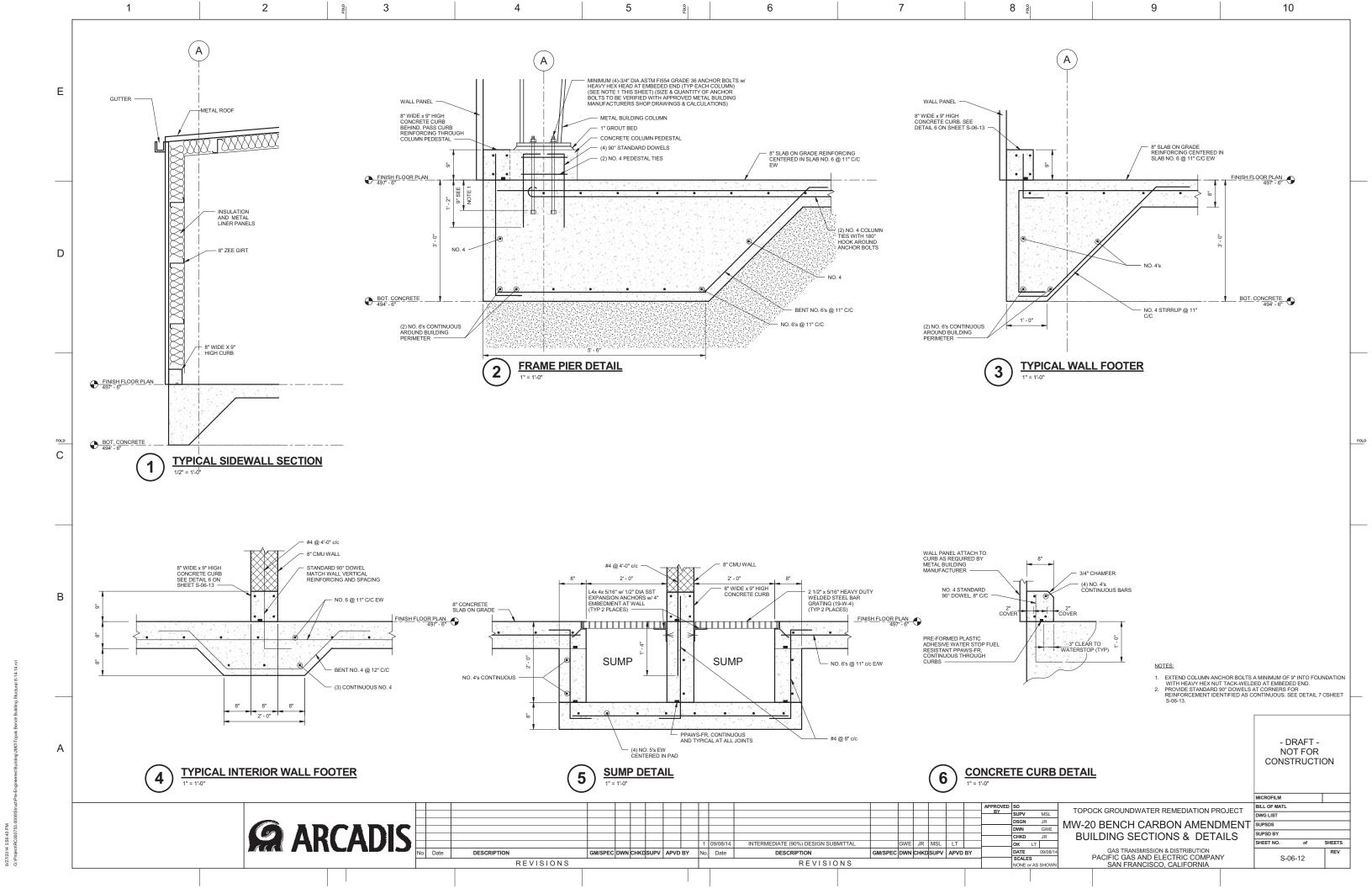


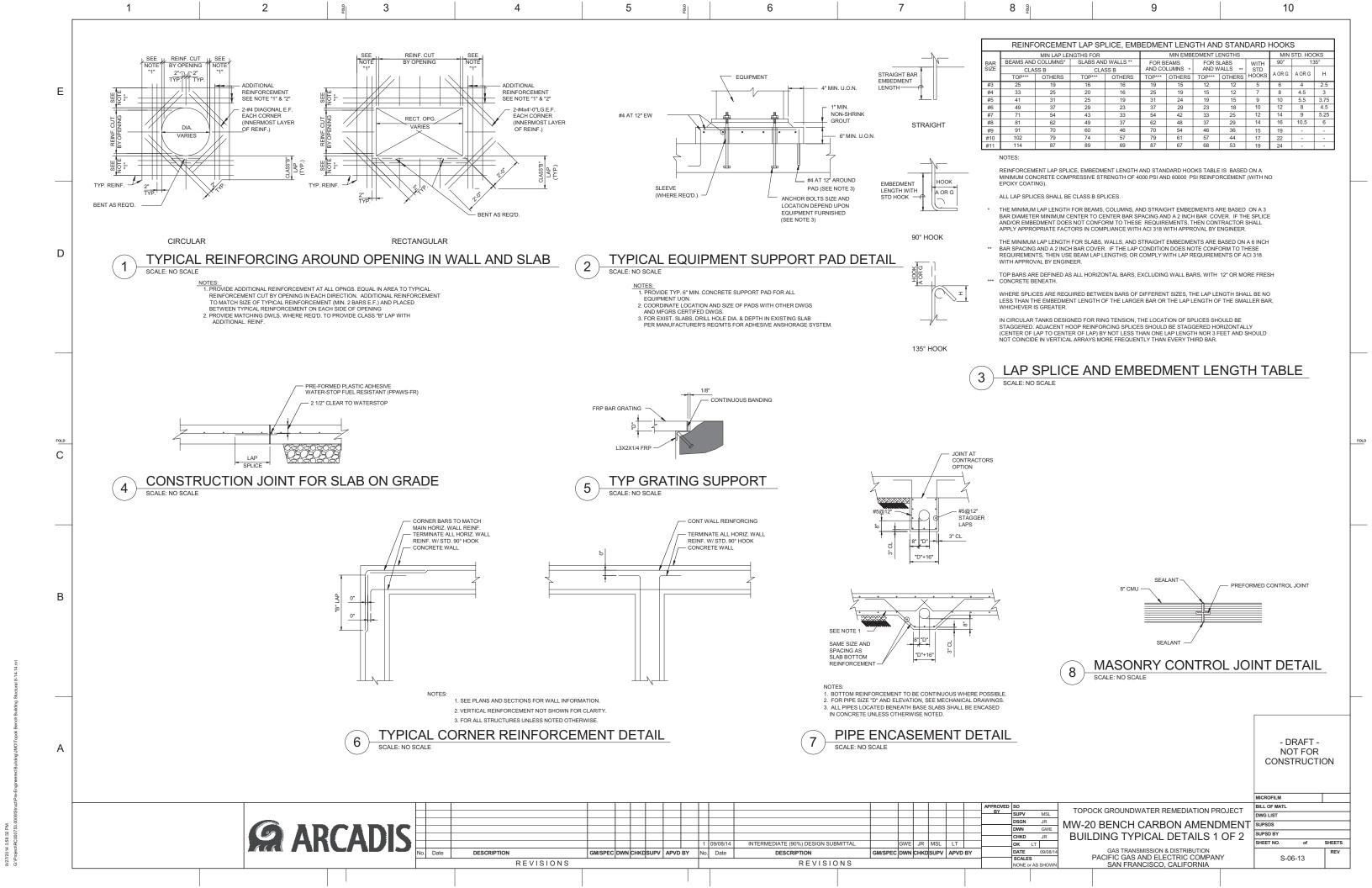


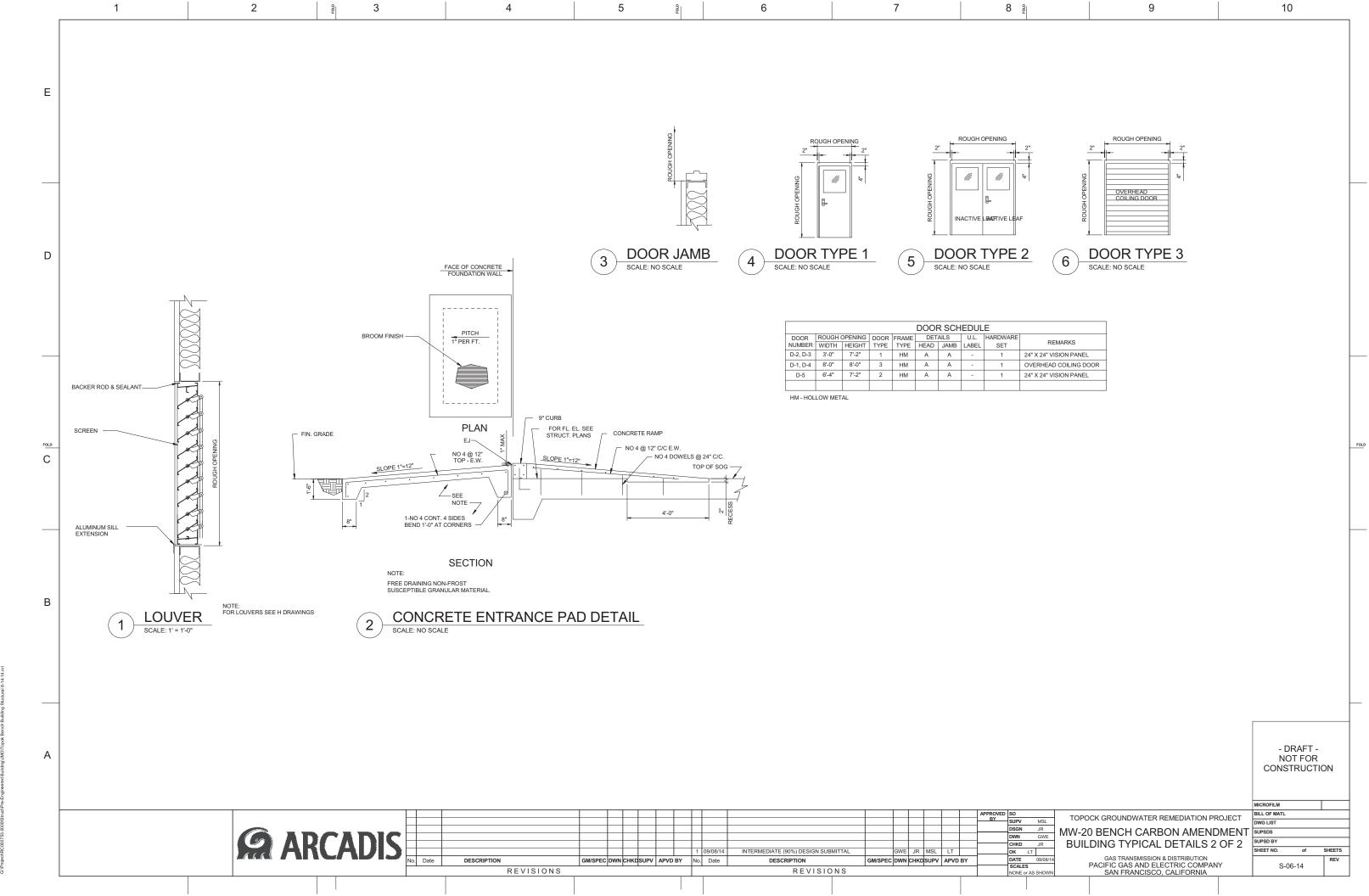




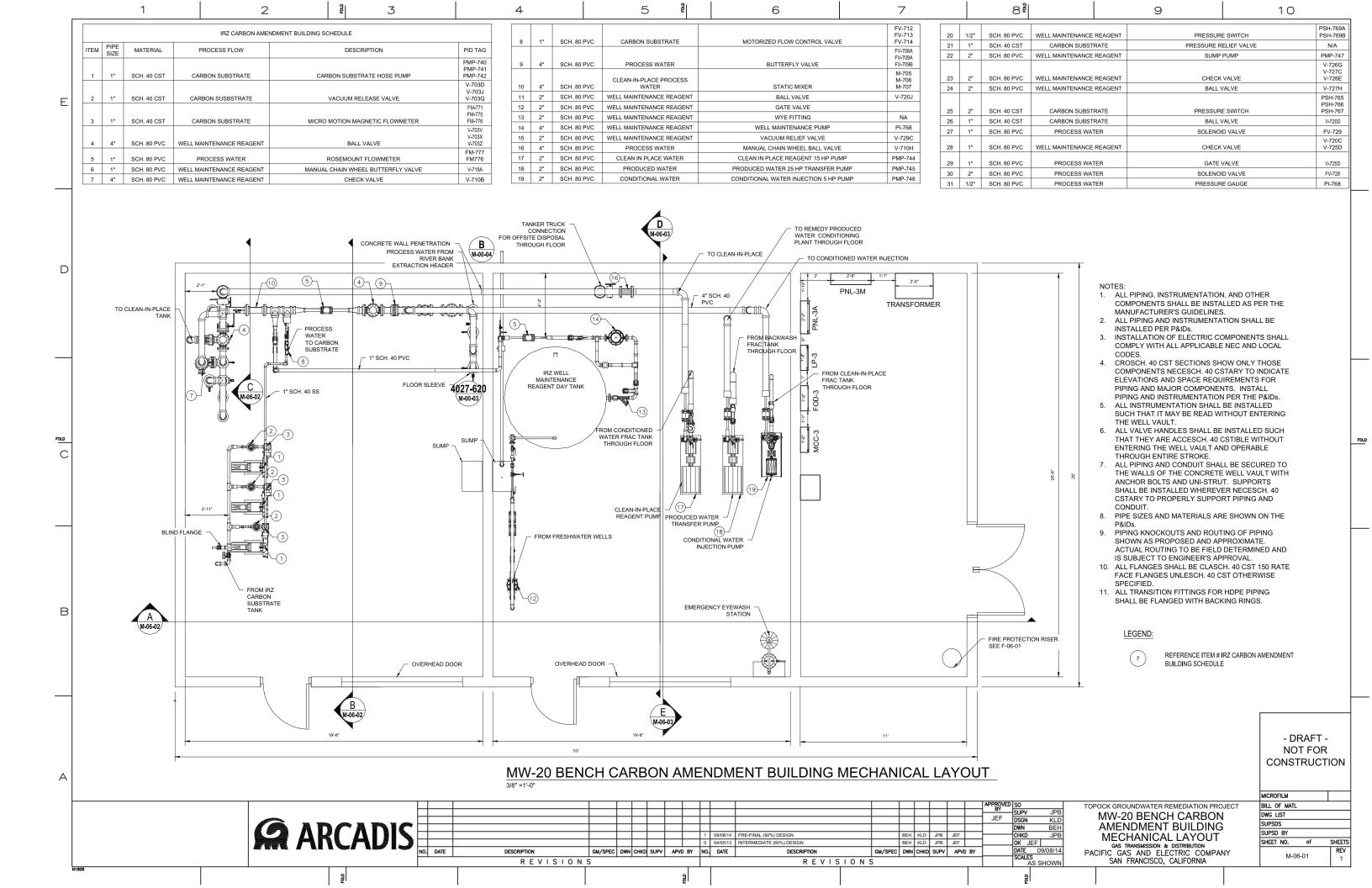


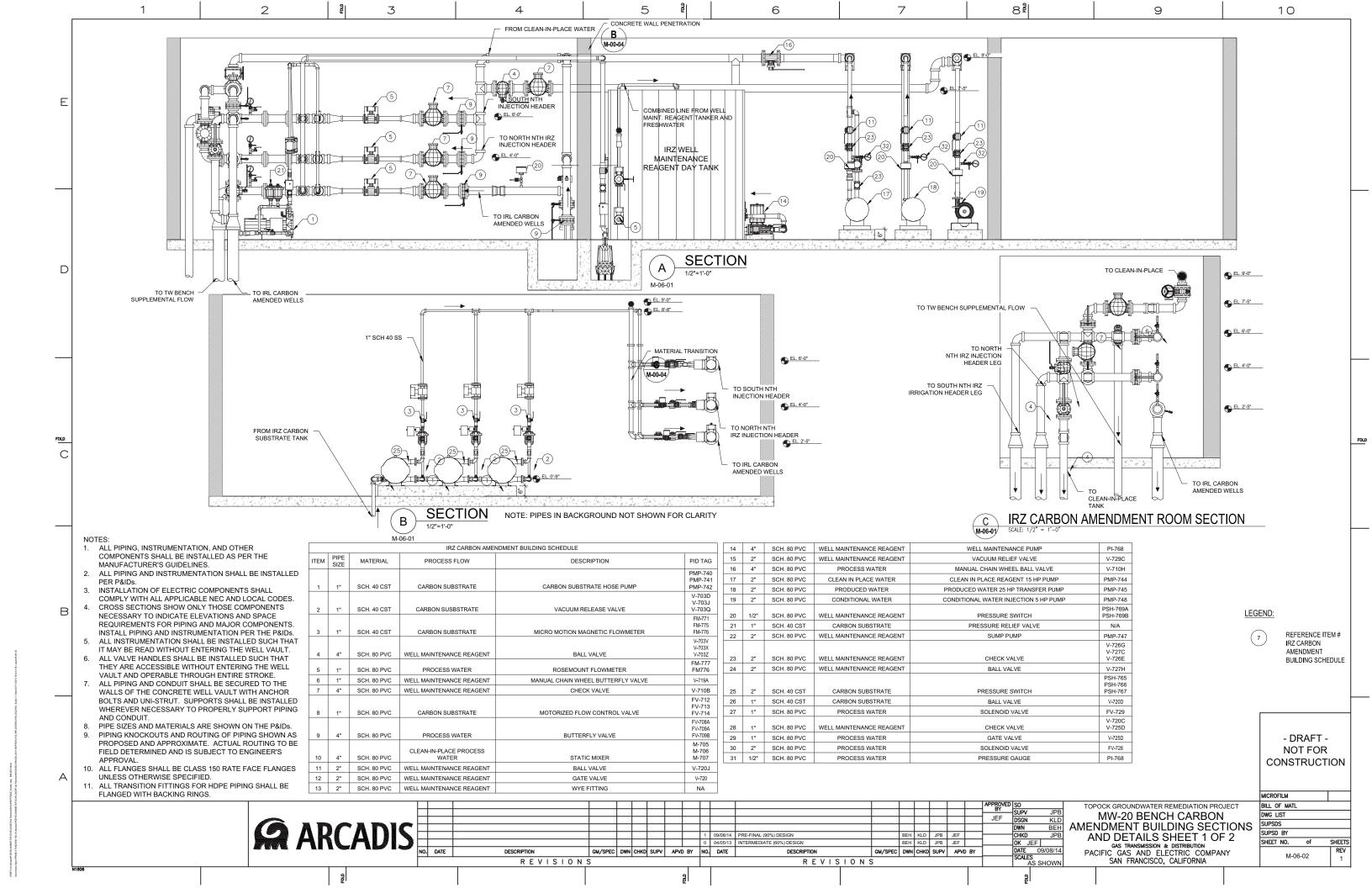






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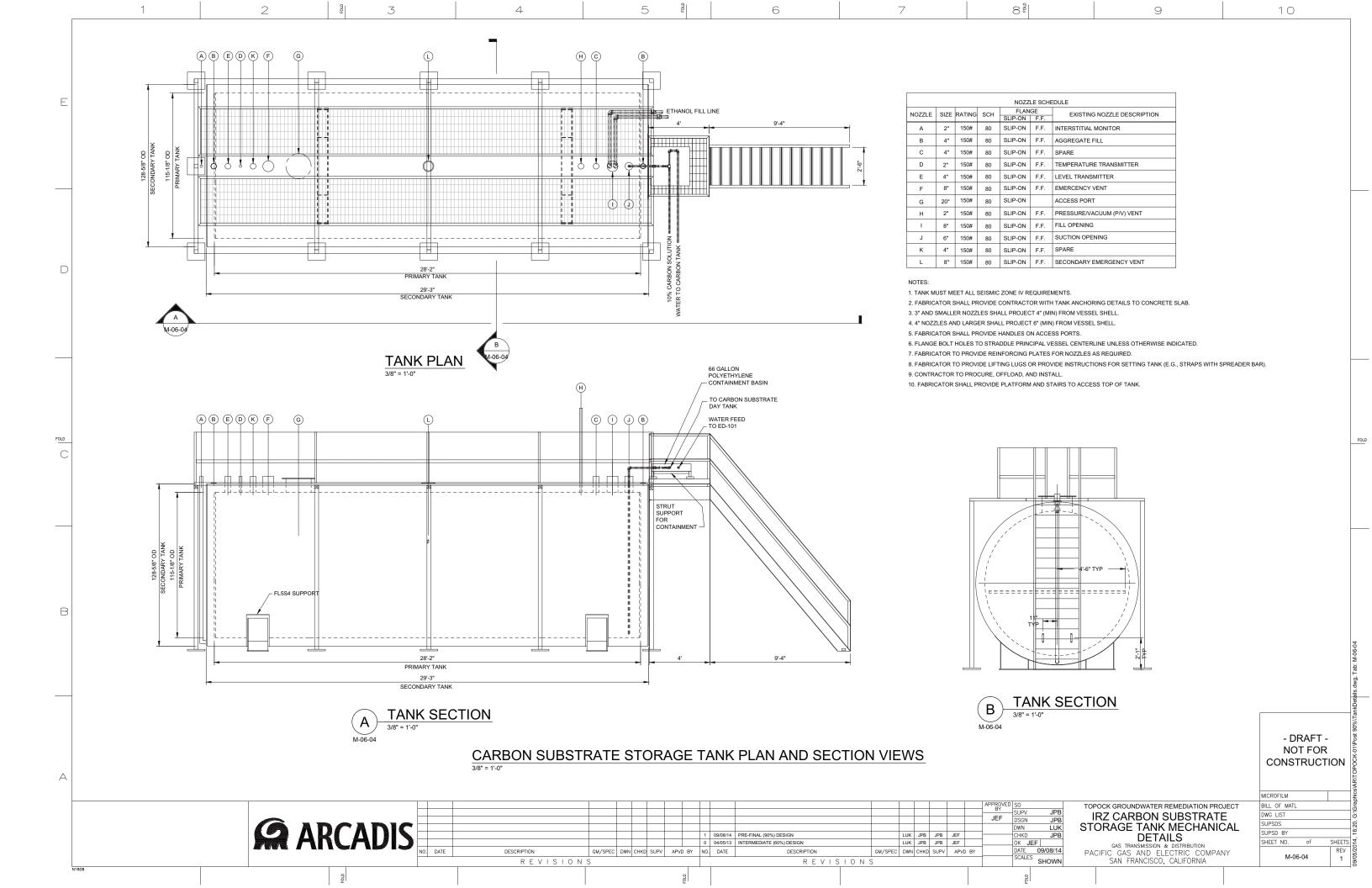
	1	2		FOLD	3		4	5	F0LD		6		7		82	9		10	
2. ALL 3. INST APP 4. CRC INDI MAJ P&III 5. ALL WIT 6. ALL CON SUP SUP 8. PIPE 9. PIPI APP SUB 10. ALL OTH	TALLED AS PE PIPING AND II TALLATION OF TALLATION OF LICABLE NEC OSS SECTIONS CATE ELEVAT OR COMPONE OS. INSTRUMENT HOUT ENTER! VALVE HANDI CESSIBLE WITH COUGH ENTIRE PIPING AND OF VERTE WELL PORTS SHALL PORT PIPING E SIZES AND M NG KNOCKOU ROXIMATE. A JJECT TO ENG FLANGES SHA IERWISE SPEC	RUMENTATION, AND OTHEIR R THE MANUFACTURER'S ON STRUMENTATION SHALL IS ELECTRIC COMPONENTS AND LOCAL CODES. S SHOW ONLY THOSE COM TIONS AND SPACE REQUIRIENTS. INSTALL PIPING AND THE WELL VAULT. LES SHALL BE INSTALLED SHOUT ENTERING THE WELL ES TROKE. CONDUIT SHALL BE SECUR VAULT WITH ANCHOR BOLL BE INSTALLED WHEREVE AND CONDUIT. AND CONTENDED THE WELL ITS AND ROUTING OF PIPING COTUAL ROUTING TO BE FIE INDER'S APPROVAL. ALL BE CLASS 150 RATE FA	R COMPONENTS GUIDELINES. BE INSTALLED P SHALL COMPLY IPONENTS NECE EMENTS FOR PIF D INSTRUMENTA ED SUCH THAT IT SUCH THAT THE L VAULT AND OP EED TO THE WALL LTS AND UNI-STF ER NECESSARY T N THE P&IDS. NG SHOWN AS PIF ELD DETERMINE	PER P&IDS WITH AL ESSARY T PING AND TION PEF T MAY BE EY ARE PERABLE LS OF TH RUT. TO PROPI ROPOSEI ED AND IS NLESS	EES. LOO RTHE READ EESTLY DAND		4	5	€ EL.3	(12)	ATER —	/ \	20 28 29 PROCESS WATER FROM WELL MAINTENANCE REAGENT TANKER	IRZ WELL MAINTE DAY	TO CL	EAN-IN-PLACE	WATER REINJECT	ION	
		IRZ CARBON AM	MENDMENT BUILDING	G SCHEDUL	E				⊕ EL. 1	1'-0"									
ITEM PIPE SIZE	MATERIAL	PROCESS FLOW		D	ESCRIPTION	PID TAG				***		5)—/ (1.					44		
1 1"	SCH. 40 CST	CARBON SUBSTRATE	C	CARBON SL	BSTRATE HOSE PUMP	PMP-740 PMP-741 PMP-742 V-703D		14			2"x1"	REDUCER			(15) (14)		*8.5		
2 1"	SCH. 40 CST	CARBON SUSBSTRATE		VACUU	M RELEASE VALVE	V-703J V-703Q													
						FM-771 FM-775							(22)						
3 1"	SCH. 40 CST	CARBON SUBSTRATE	MIC	RO MOTION	I MAGNETIC FLOWMETER	FM-776 V-703V V-703X							SECTION						
4 4"	SCH. 80 PVC	WELL MAINTENANCE REAGENT	г	ı	BALL VALVE	V-703Z V-703Z FM-777						(   )	1/2"=1'-0"						
5 1"	SCH. 80 PVC	PROCESS WATER			OUNT FLOWMETER	FM776						M-06-01							
6 1" 7 4"	SCH. 80 PVC SCH. 80 PVC	WELL MAINTENANCE REAGENT WELL MAINTENANCE REAGENT			WHEEL BUTTERFLY VALVE HECK VALVE	V-719A V-710B													
7 4	3CH. 60 FVC	WELL MAINTENANCE REAGENT	!		HECK VALVE	FV-712													FOLD
8 1"	SCH. 80 PVC	CARBON SUBSTRATE	M	IOTORIZED	FLOW CONTROL VALVE	FV-713 FV-714		TO CLEAN-IN-PLACE											
9 4"	SCH. 80 PVC	PROCESS WATER		BUT	TERFLY VALVE	FV-708A FV-709A FV-709B		⊕ EL. 9'-0"	-		5	<b>m</b>			EYEWASH AND SHOWER —				
		CLEAN-IN-PLACE PROCESS				M-705 M-706									Z.Z.Mo.M.Dollowski				
10 4"	SCH. 80 PVC	WATER	-		TATIC MIXER	M-707		El 7' 6"											
11 2" 12 2"	SCH. 80 PVC SCH. 80 PVC	WELL MAINTENANCE REAGENT WELL MAINTENANCE REAGENT	_		BALL VALVE BATE VALVE	V-720J		EL.7'-6"	7							#			
13 2"	SCH. 80 PVC	WELL MAINTENANCE REAGENT			VYE FITTING	NA				_									-
14 4"	SCH. 80 PVC	WELL MAINTENANCE REAGENT	г	WELL M	AINTENANCE PUMP	PI-768	TO CC	NDITIONED WATER REINJECTION		TO REMEDY PRODUC	CED WATER								
15 2"	SCH. 80 PVC	WELL MAINTENANCE REAGENT			JM RELIEF VALVE	V-729C				CONDITIONING PLAN	NI								
16 4" 17 2"	SCH. 80 PVC SCH. 80 PVC	PROCESS WATER  CLEAN IN PLACE WATER			AIN WHEEL BALL VALVE CE REAGENT 15 HP PUMP	V-710H PMP-744			1			24							
18 2"	SCH. 80 PVC	PRODUCED WATER			ER 25 HP TRANSFER PUMP	PMP-745					(21)-								
19 2"	SCH. 80 PVC	CONDITIONAL WATER			ATER INJECTION 5 HP PUMP	PMP-748					-								
20 1/2"	SCH. 80 PVC	WELL MAINTENANCE REAGENT	г	PRE	SSURE SWITCH	PSH-769A PSH-769B					(24)-			CLEAN-IN-PLACE REAGE	NT PUMP				
21 1"	SCH. 40 CST	CARBON SUBSTRATE		PRESSI	JRE RELIEF VALVE	N/A					31)—								
22 2"	SCH. 80 PVC	WELL MAINTENANCE REAGENT	г	;	SUMP PUMP	PMP-747							-17						
						V-726G V-727C					H							LEGEND:	
23 2"	SCH. 80 PVC	WELL MAINTENANCE REAGENT			HECK VALVE	V-726E						(40.10.4)						DEEEDENCE ITEM # ID7	
24 2"	SCH. 80 PVC	WELL MAINTENANCE REAGENT	· ·		BALL VALVE	V-727H PSH-765			100000								 	7 REFERENCE ITEM # IRZ CARBON AMENDMENT	
25 2"	SCH. 40 CST	CARBON SUBSTRATE		PRE	SSURE SWITCH	PSH-766 PSH-767					FROM CONDI	ITIONED WATER FRAC T.	ANK					BUILDING SCHEDULE	
26 1"	SCH. 40 CST	CARBON SUBSTRATE			BALL VALVE	V-720D			W										
27 1"	SCH. 80 PVC	PROCESS WATER		SO	ENOID VALVE	FV-729							ECTION						
28 1"	SCH. 80 PVC	WELL MAINTENANCE REAGENT	г	С	HECK VALVE	V-720C V-725D						1/2	"=1'-0"						$\dashv$
29 1"	SCH. 80 PVC	PROCESS WATER			SATE VALVE	V-725D						M-06-01							
30 2"	SCH. 80 PVC	PROCESS WATER			LENOID VALVE	FV-728												- DRAFT -	
31 1/2"	SCH. 80 PVC	PROCESS WATER		PRE	SSURE GAUGE	PI-768												NOT FOR	.
																		CONSTRUCTION	1
																		MICROFILM	$\dashv$
								1 1 1 1						APPROVE	SO TO	OPOCK GROUNDWATER REME		ECT BILL OF MATL	コ
			<b>-</b> -											JEF	SUPV JPB DSGN KLD	MW-20 BENCH (	ARBON	DWG LIST SUPSDS	$\dashv$
		[ [	$\mathbf{A} \wedge \mathbf{D}$		ADIS			+ + -	1	1 09/08/14 PRE-FI	INAL (90%) DESIGN		BEH KLD JPB		DEU VIVIE	ENDMENT BUILDIN AND DETAILS SHE	ET 2 OF	2 SUPSD BY	╛
			$\pi$ $\wedge$	W	マレリン	_		au fanci	0	0 04/05/13 INTER	MEDIATE (60%) DESIGN		BEH KLD JPB	JEF		GAS TRANSMISSION & DIST GAS AND ELECTF	RIBUTION	SHEET NO. of SHEET	
			-		NO. DATE	DES	REVISION	GM/SPEC DWN CHKD SUF	PV APVD BY N	IU. DATE	DESCRIPTION R F	VISION:	GM/SPEC DWN CHKD SUPV	APVU BY	DATE 09/08/14 SCALES AS SHOWN	ACIFIC GAS AND ELECTF SAN FRANCISCO, CAL	IC COMPAN FORNIA	Y M-06-03 REV	.'
N1808								1			IV E		-	<del>-   '</del>	AS SHOWIN			1	_
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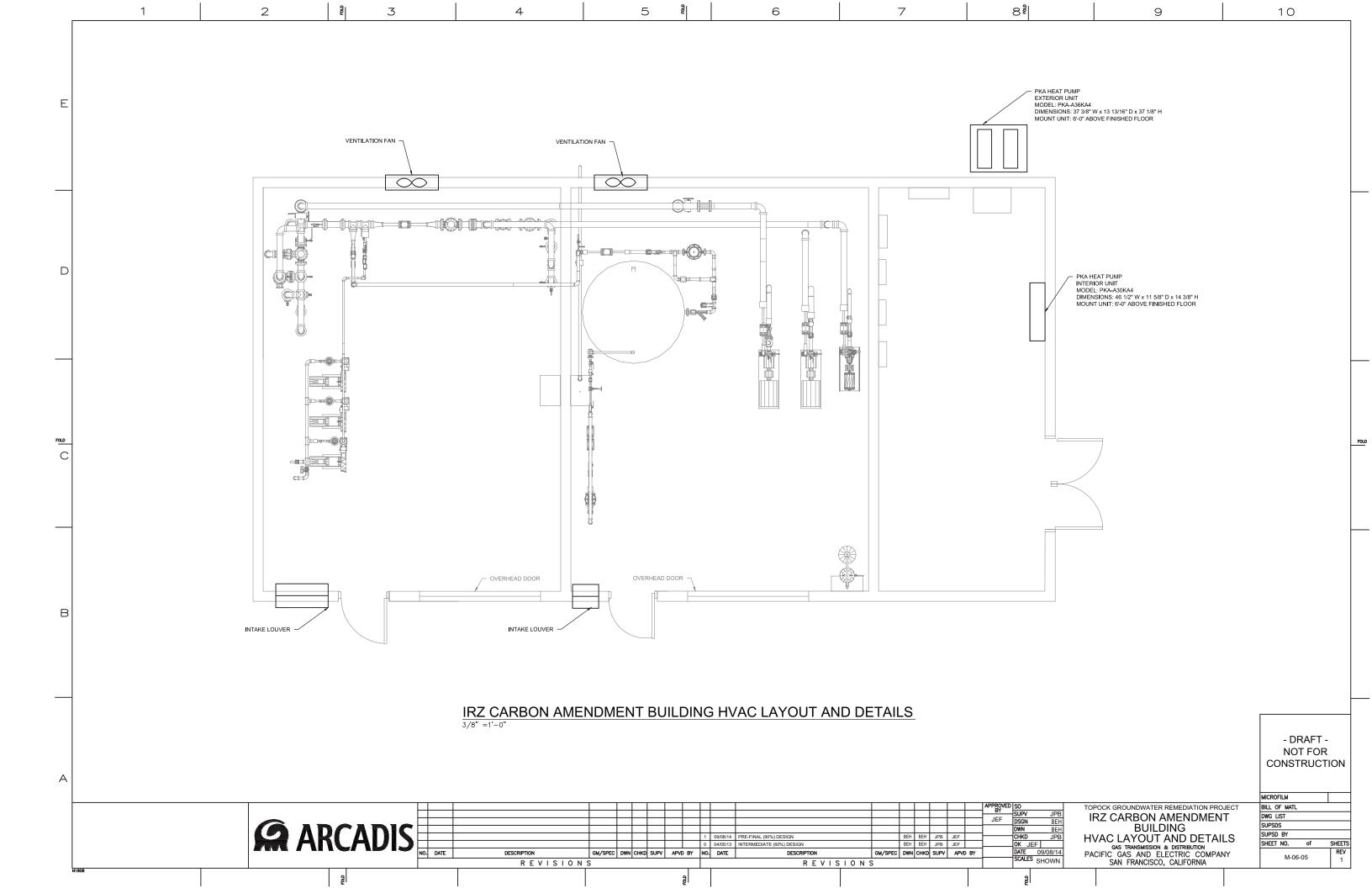
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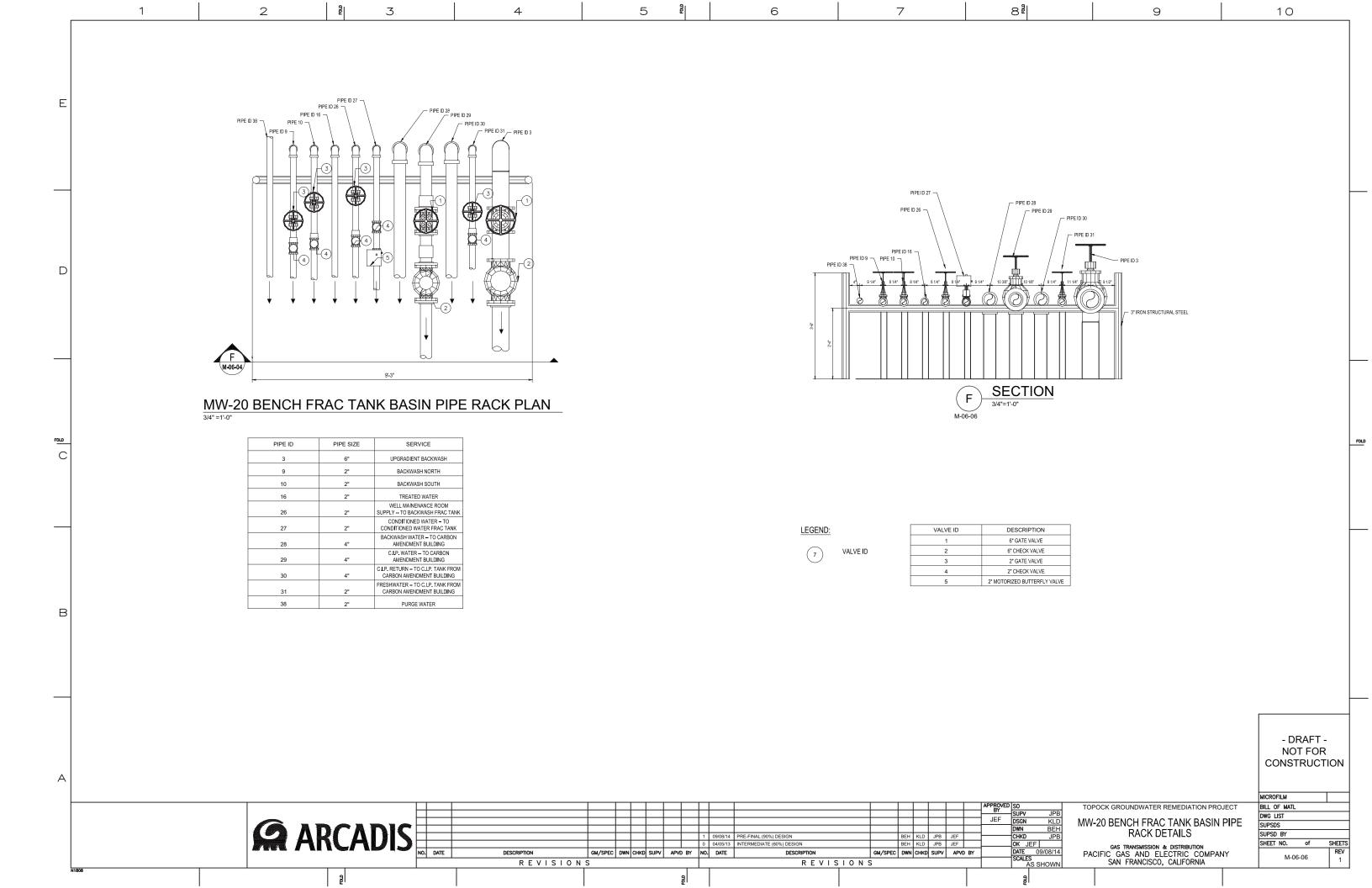
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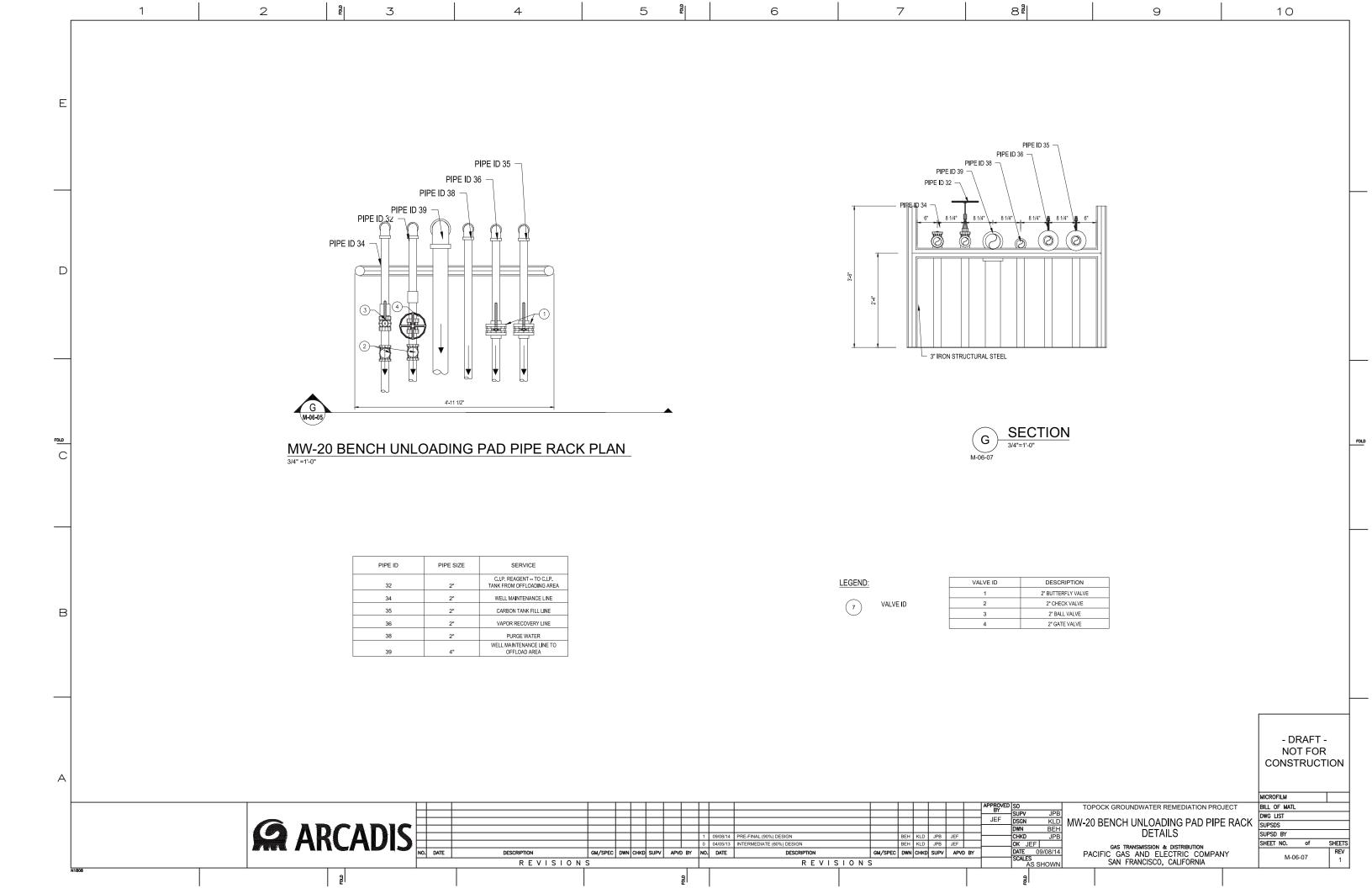
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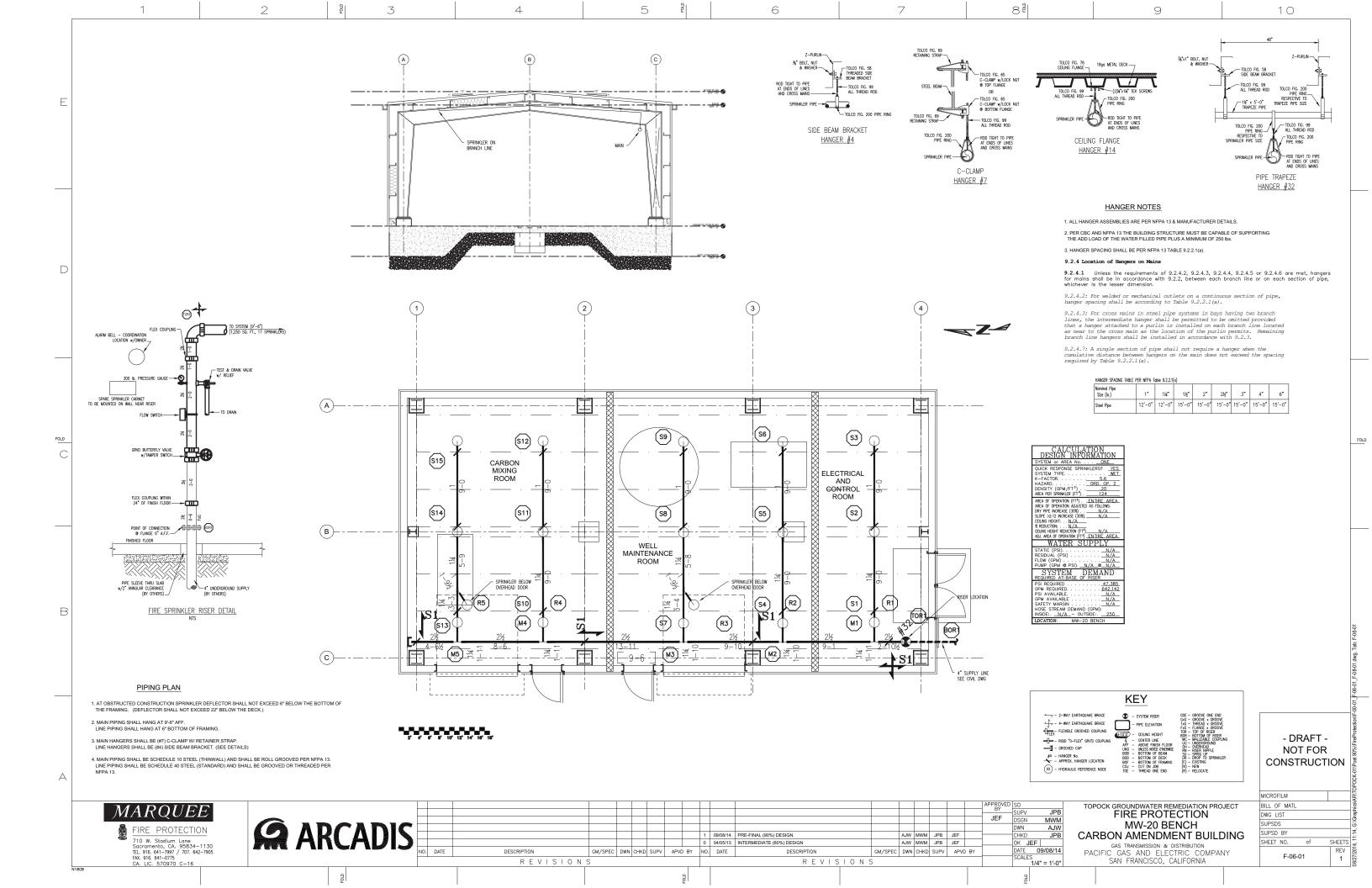
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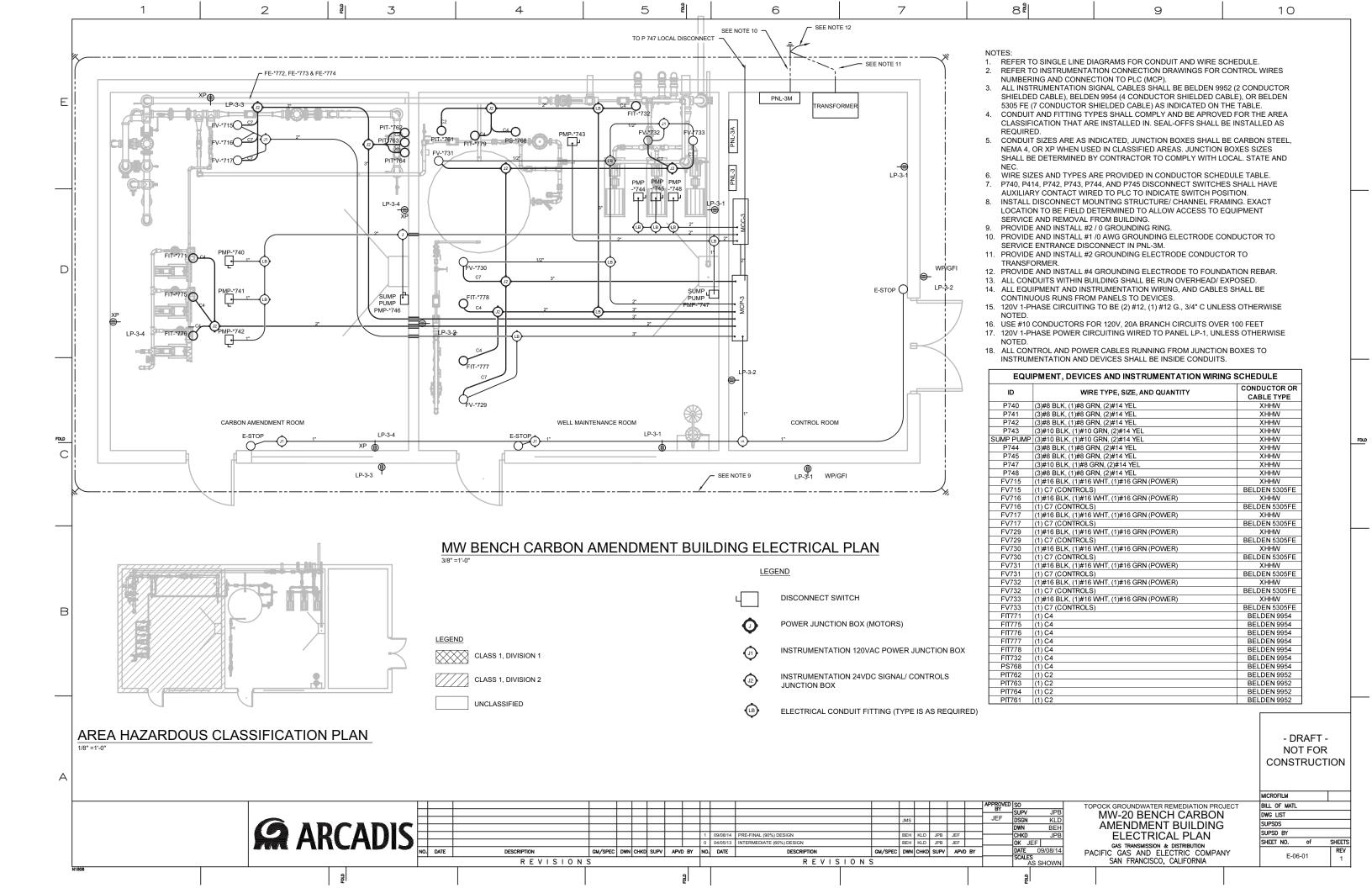


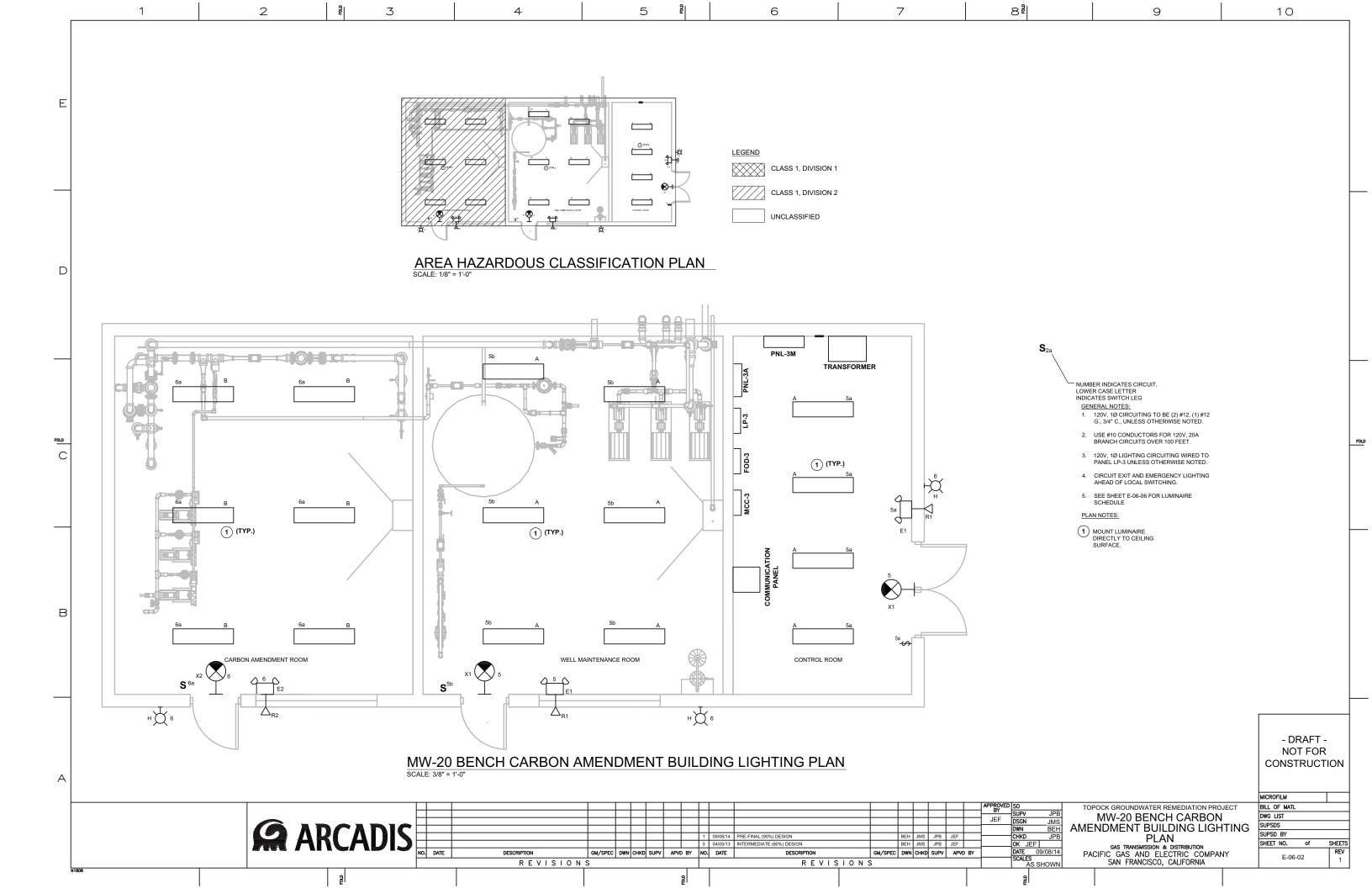












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E															
			LAMPS CONNECT	ı	LUMINAIRE SCHEDU	JLE									
		A Qu	LAMPS CONNECT JANTITY TYPE WATTS  2 F32T8 64	S ENCLOSED AND GASKETED FLUORESCENT LUMINAIRE		THONIA CAT NO. DMW232-120-GEB10IS, DAY-BRI	RITE. OR EQUAL.	MOUNT DIRECTL	TO CEILING SURFACE						
		В	2 F32T8 64	ENCLOSED INDUSTRIAL FLUORESCENT LUMINAIRE, WITH AND TEMPERED GLASS LENS, UL LISTED FOR CLASS 1, DIV	MOLDED COMPOSITE BODY	DAY-BRITE CAT NO. HAZ232-120-E10I, LITHONIA		MOUNT DIRECTL	TO CEILING SURFACE						
$\dashv$		E1 44	2 25W SBT 20	D LOCATIONS.  SELF-CONTAINED EMERGENCY LIGHTING UNIT WITH 120V BATTERY, AND CAPABILITY FOR THE ADDITION		DUAL-LITE CAT NO. LM112-12V-D-I, EMERGI-LITE CAPACITY FOR SRHSW1225 REMOTE H	TE, OR EQUAL HEAD	MOUNT AT 8' ABOV	E FINISHED FLOOR, UON						$\vdash$
		E2 4_A	2 12W SBT 20	SELE-CONTAINED EMERGENCY LIGHTING LINIT WITH 12	20V CHARGER, 12V SEALED DI ION OF REMOTE HEADS, UL	UAL-LITE CAT NO, C1D2-12V72-12W, EMERGI-LIT CAPACITY FOR C1D2R-12V12W REMOTE		MOUNT AT 8' ABOV	E FINISHED FLOOR, UON						
		н НД	1 50W MH 50M	METAL HALIDE WALL PACK, WITH CUTOFF DISTRIBUTION DIE-CAST ALUMINUM HOUSING, AND PHOTOCELL, UL LI	IN, CORROSION-RESISTANT, STED FOR WET LOCATIONS	IMINAIRE: LITHONIA CAT NO, TWAC-50M-120-PE	E-LPI, OR EQUAL	MOUNT AT 8' ABOVE GRADE TO	O CENTERLINE OF LUMINAIRE, UON						
		R1 d	1 25W SBT 20	REMOTE INCANDESCENT OUTDOOR HEAD FOR EMERGE	NCY LIGHTING UNIT E1 ABOVE.	DUAL-LITE CAT NO. SRHSW1225, EMERGI-LITE	E, OR EQUAL	EXTERIOR MOUNT AT 8' AE LUMII	OVE GRADE TO CENTERLINE OF IAIRE, UON						
		R2 <b>4</b>	1 12W SBT 20	REMOTE INCANDESCENT OUTDOOR HEAD FOR EMERGEN. LISTED FOR CLASS 1, DIVISION 2, GROUPS B, C	CY LIGHTING UNIT E2 ABOVE, UL , AND D LOCATIONS.	DUAL-LITE CAT NO, C1D2R-12V12W, EMERGI-LIT	TE, OR EQUAL	EXTERIOR MOUNT AT 8' AE LUMII	OVE GRADE TO CENTERLINE OF LAIRE, UON						
		x1 <b>—</b>	6 RED LED 4	RED LED EXIT SIGN, WITH THERMOPLASTIC HOUSING, NIC SELF-TESTING ELECTRONIC RED LED EXIT SIGN, WITH DIE CAST ALUMINUM HOUSING A	is	DUAL LITE LXURWE-I, EMERGILITE OR E	EQUAL	WALL OR PENDAN	F MOUNT FROM CEILING						
		x2 <b>⊢⊗</b>	6 RED LED 3	WITH SELF-TESTING ELECTRONICS, UL LISTED FOR CLASS AND D LOCATIONS	S 1, DIVISION 2, GROUPS A, B, C,	CROUSE HINDS CCH-UX70RSDHAZ, EMERGI-LIT	ITE OR EQUAL	WALL OR PENDAN	F MOUNT FROM CEILING						
		MW	/-20 BEN	ICH CARBON AME	ENDMENT BU	JILDING ELEC	CTRICAI	L SCHEE	ULES						-
			DANEL IL DO		ADDOM A MENDMENT DUM DINO			10 JOURS 405							
			PANEL: LP-3 VOLTS: 208Y FEED: BOT	(/120V PHASE: 3 WIRE TOM, 175A MAIN C/B NEUTRAL:   100'		E: NEMA TYPE 1		NG: SURFACE NG: 10 KAIC							-
			RECEPTACLES-ME	CH, REAGENT ROOM, EXT. 0.8	BREAKER   CKT   PH   CKT	20 1 0.6	RECEPTACLES-	OAD SERVED							
l			LIGHTIN	ARBON ROOM, EXTERIOR 0.4  NG-INTERIOR 0.7  ELL COMM PANEL 3 0.5	20 1 3 B 4 20 1 5 C 6 20 1 7 A 8	20 1 0.6 20 1		CARBON ROOM, EX ARBON ROOM, EXTER SPARE							
				SPARE SPARE SPARE	20 1 9 B 10 20 1 11 C 12 20 1 13 A 14	20 1 20 1		SPARE SPARE SPARE							
				SPARE SPARE	20 1 15 B 16 20 1 17 C 18	20 1 20 1		SPARE SPARE							+
				SPARE SPACE SPACE	20 1 19 A 20 21 B 22 23 C 24	20 1		SPACE SPACE							
			\$	SPACE SPACE	25 A 26 27 B 28			SPACE SPACE							
				SPACE SPACE SPACE	29 C 30 31 A 32			SPACE SPACE SPACE							
				SPACE SPACE	33 B 34 35 C 36 37 A 38			SPACE SPACE							
				SPACE SPACE	39 B 40 41 C 42			SPACE SPACE 1.9							
			SUE	3-TOTAL CONNECTED KVA: 0.4 0.7	7	0.6 0.4 0.6 TOTAL CONNECTED KVA		1.9 0.8 1.3 4.0							
				l		TO THE GOINGEOIED KVA	**1	7.0							
														- DRAFT -	
														NOT FOR CONSTRUCTIO	<sub>N</sub>
												APPROVED SO BY SUPV JPB	TOPOCK GROUNDWATER REMEDIATION PROJEC	MICROFILM T BILL OF MATL	
			AD	CADIC								JEF DSGN JMS DWN BEH	MW-20 BENCH CARBON AMENDMENT BUILDING ELECTRICAL SCHEDULES	DWG LIST SUPSDS	
			<b>€</b> AK	CADIS	DESCRIPTION	GM/SPEC	DWN CHKD SUPV		14 PRE-FINAL (90%) DESIGN 13 INTERMEDIATE (60%) DESIG DESCI	N RIPTION	BEH         JMS         JPB         JEF           BEH         JMS         JPB         JEF           GM/SPEC         DWN         CHKD         SUPV         APV	CHKD JPB OK JEF DATE 09/08/14	GAS TRANSMISSION & DISTRIBUTION PACIFIC GAS AND FLECTRIC COMPANY	SHEET NO. of SHE	ETS EV
N1808				-	R E	VISIONS		_		REVISION		SCALES AS SHOWN	SAN FRANCISCO, CALIFORNIA	E-06-04	1
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