





BWGW: CAGW: CIPR: ETOH: EXGW: GPD: GPM: IRL: IRZ: Ibs/day mg/L: NTH: TOC: TW: WMR:	BACKWASH GROUNDWATER CARBON AMENDED GROUNDWATER CLEAN IN PLACE REAGENT ETHANOL EXTRACTED GROUNDWATER FRESH WATER GALLONS PER DAY GALLONS PER MINUTE INNER RECIRCULATION LOOP IN-SITU REACTIVE ZONE POUNDS PER DAY MILLIGRAMS PER LITER NATIONAL TRAIL HIGHWAY TOTAL ORGANIC CARBON TREATED WATER WELL MAINTENANCE REAGENT
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	MICROGRAMS PER LITER



	5. A V 6. S 7. A (I J 8. P	LI PIPE PENETRATIONS SHALL BE LINK SEALE VITH SPECIFICATIONS. IEE MECHANICAL DRAWINGS FOR ALL PIPE PE ICCESS HATCH, SOLID LID, AND FRAME TO BE HS20-44) AND MANUFACTURED BY NEENAH FC ORDAN IRON WORKS. ROVIDE 90° HOOK AT ENDS OF TOP AND BOTT IETER VAULT TOP SLAB WITHIN 1-0" OF LIFTIN	ED IN ACCORI INETRATIONS HIGHWAY RA DUNDRY OR E TOM RESTEEL IG INSERTS.	DANCE TED AST		
				- DF NO CONST	RAFT T FOR RUCT	ION
				MICROFILM		
D SO	TOF	OCK GROUNDWATER REMEDIATION PRO	JECT	BILL OF MATL		
-SUPV JPB	TC		<b>=</b> 1.1	DWG LIST		
DWN GWF	10			SUPSDS		
СНКО ЈРВ		VAULTS - TYPE 2 - PLAN		SUPSD BY		
OK JEF		GAS TRANSMISSION & DISTRIBUTION		SHEET NO.	of	SHEETS
DATE 09/08/14 SCALES AS SHOWN	PAG	CIFIC GAS AND ELECTRIC COMPAN SAN FRANCISCO, CALIFORNIA	١Y	S-03-	-01	1 REV
FOLD						

NOTES:

- DAYS. REINFORCING STEEL SHALL BE ASTM A-615.

3. ALL PIPING AND CONDUIT SHALL BE SECURED TO THE WALLS OR BASE SLAB OF THE CONCRETE VAULTS WITH ANCHOR BOLTS, UNISTRUT, OR CONCRETE PIPE SUPPORTS. CONTRACTOR SHALL INSTALL SUPPORTS WHEREVER NECESSARY TO PROPERLY

SUPPORT PIPING AND CONDUIT PER SPECIFICATION 40 05 15. 4. CONTRACTOR RESPONSIBLE FOR LOCATING AND VERIFYING

LOCATION OF ALL UTILITIES LOCATED WITHIN AREAS TO BE

- PRECAST CONCRETE VAULT COMPONENTS SHALL BE DESIGNED WITH LOADING IN ACCORDANCE WITH AASHTO HS20-44.
   CONCRETE SHALL BE 5,000 P.S.I. COMPRESSIVE STRENGTH @ 28

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		3. ALL BAS UNIX INST SUP 4. CON LOC AFF 5. ALL	PIPING AND CONDUIT E SLAB OF THE CONC STRUT, OR CONCRETE TALL SUPPORTS WHEI 'PORT PIPING AND CO VITRACTOR RESPONSI 'ATION OF ALL UTILITII 'ECTED BY CONSTRUC .PIPE PENETRATIONS	SHALL BE SECURED T RETE VAULTS WITH AN E PIPE SUPPORTS. CON REVER NECESSARY TC INDUIT PER SPECIFICA BLE FOR LOCATING AN ES LOCATED WITHIN AI CTION. SHALL BE LINK SEALEI	O THE WALLS I CO THE WALLS I ICHOR BOLTS, VIRACTOR SHA PROPERLY TION 40 05 15. ID VERIFYING REAS TO BE D IN ACCORDA	OR ALL NCE		
		6. SEE	MECHANICAL DRAWI	NGS FOR ALL PIPE PEN	IETRATIONS.	- DF NO CONST	RAFT T FOF RUC	
,	SO SUPV JPB DSGN MSL DWN GWE CHKO JPB OK JEF DATE 09/08/14 SCALES AS SHOWN	TOF TC VA PA	POCK GROUNDWAT S LOOP EX AULTS - FOU GAS TRANSMISSI CIFIC GAS AND SAN FRANCIS	ER REMEDIATION PR TRACTION W JNDATION PI ON & DISTRIBUTION ELECTRIC COMP/ CO, CALIFORNIA	ROJECT /ELL LAN ANY	MICROFILM BILL OF MATL DWG LIST SUPSDS SUPSD BY SHEET NO. S-03	of -02	SHEETS REV 1
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- PRECAST CONCRETE VAULT COMPONENTS SHALL BE DESIGNED WITH LOADING IN ACCORDANCE WITH AASHTO HS20-44.
   CONCRETE SHALL BE 5,000 P.S.I. COMPRESSIVE STRENGTH @ 28 DOMORPHIC TO A DEVICE OF THE OWNER OWNER OF THE OWNER OWNER
- NOTES:





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-	SUPV	JPB				DWG LIST			
_	DSGN	MSL		CS LOOP INJECTION WEL	L	SUPSDS			
		IDD		VALUES - TYPE 1 - PLAN	1	SUPSD BY			
		EF				SHEET NO.	of	SHEETS	
	DATE	09/08/14		CIFIC GAS AND FLECTRIC COMPAN	ΙY			REV	
	SCALE	S S SHOWN		SAN FRANCISCO, CALIFORNIA	••	S-03	-04	1	
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- SEE MECHANICAL DRAWINGS FOR ALL PIPE PENETRATIONS.
- AFFECTED BY CONSTRUCTION. 5. ALL PIPE PENETRATIONS SHALL BE LINK SEALED IN ACCORDANCE WITH SPECIFICATIONS.
- INSTALL SUPPORTS WHEREVER NECESSARY TO PROPERLY SUPPORT PIPING AND CONDUIT PER SPECIFICATION 40 05 15. 4. CONTRACTOR RESPONSIBLE FOR LOCATING AND VERIFYING LOCATION OF ALL UTILITIES LOCATED WITHIN AREAS TO BE
- DAYS. REINFORCING STEEL SHALL BE ASTM A-615. 3. ALL PIPING AND CONDUIT SHALL BE SECURED TO THE WALLS OR BASE SLAB OF THE CONCRETE VAULTS WITH ANCHOR BOLTS, UNISTRUT, OR CONCRETE PIPE SUPPORTS. CONTRACTOR SHALL INSTALL SUPPORTS WHEREVER NECESSARY TO PROPERLY SUPPORT DIPINE, AND CONDUCT DEP SPECIFICATION 40.65 15
- WITH LOADING IN ACCORDANCE WITH AASHTO HS20-44. 2. CONCRETE SHALL BE 5,000 P.S.I. COMPRESSIVE STRENGTH @ 28 DAYS. REINFORCING STEEL SHALL BE ASTM A-615.
- NO LES: 1. PRECAST CONCRETE VAULT COMPONENTS SHALL BE DESIGNED WITH I OADING IN ACCORDANCE WITH AASHTO HS20.44

NOTES:

5'-0" X 4'-0" ALUMINUM DRAINAGE VAULT ACCESS DOOR (SEE SCHEDULE ON SHEET S-00-05 FOR VAULT ACCESS LOAD RATING REQUIRED)

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- DRAFT -



5. 6. 7. 8.	ALL PIPE PENETRATIONS SHALL BE LINK SEALE WITH SPECIFICATIONS. SEE MECHANICAL DRAWINGS FOR ALL PIPE PEN ACCESS HATCH, SOLID LID, AND FRAME TO BE H (HS20-44) AND MANUFACTURED BY NEENAH FOI JORDAN IRON WORKS. PROVIDE 90° HOOK AT ENDS OF TOP AND BOTT METER VAULT TOP SLAB WITHIN 1-0° OF LIFTING	D IN ACCORE NETRATIONS HIGHWAY RA UNDRY OR E. OM RESTEEL G INSERTS.	DANCE TED AST IN WELL	
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СНКД ЈРВ	VAULTS - TYPE 2 - PLAN		SUPSD BY	
	GAS TRANSMISSION & DISTRIBUTION		SHEET NO. of	SHEETS
SCALES AS SHOWN	ACIFIC GAS AND ELECTRIC COMPAN SAN FRANCISCO, CALIFORNIA	Y	S-03-05	1
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NOTES:

SUPPORT PIPING AND CONDUIT PER SPECIFICATION 40 05 15. 4. CONTRACTOR RESPONSIBLE FOR LOCATING AND VERIFYING

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- 4'-0" SQUARE ACCESS HATCH (WITH SOLID COVER)



	<ul> <li>DAYS. REINFORCING STEEL SHALL BE ASTM A-615.</li> <li>ALL PIPING AND CONDUIT SHALL BE SECURED TO THE WALL BASE SLAB OF THE CONCRETE VAULTS WITH ANCHOR BOLT UNISTRUT, OR CONCRETE PIPE SUPPORTS. CONTRACTOR S INSTALL SUPPORTS WHEREVER NECESSARY TO PROPERLY SUPPORT PIPING AND CONDUIT PER SPECIFICATION 40 05 1</li> <li>CONTRACTOR RESPONSIBLE FOR LOCATING AND VERIFYING LOCATION OF ALL UTILITIES LOCATED WITHIN AREAS TO BE AFFECTED BY CONSTRUCTION.</li> <li>ALL PIPE PENETRATIONS SHALL BE LINK SEALED IN ACCORD WITH SPECIFICATIONS.</li> <li>SEE MECHANICAL DRAWINGS FOR ALL PIPE PENETRATIONS</li> </ul>	S OR S, HALL 5. 3 DANCE	
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D SO	TOPOCK GROUNDWATER REMEDIATION PROJECT	BILL OF MATL	
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	GAS TRANSMISSION & DISTRIBUTION	SHEEL NO. OF SHEELS	
SCALES	SAN FRANCISCO, CALIFORNIA	S-03-06 1	

- PRECAST CONCRETE VAULT COMPONENTS SHALL BE DESIGNED WITH LOADING IN ACCORDANCE WITH AASHTO HS20-44.
   CONCRETE SHALL BE 5,000 P.S.I. COMPRESSIVE STRENGTH @ 28 DAVE DEIVEODENC STEEL VALUE DE ASTAL 6 216
- NOTES:







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		MICROFILM	
SO	TOPOCK GROUNDWATER REMEDIATION PROJECT	BILL OF MATL	1
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DSGN JPE	TCS LOOP EXTRACTION WELL	SUPSDS	
	CONSTRUCTION DETAILS	SUPSD BY	
OK JEF		SHEET NO. of	SHEETS
DATE 09/08/14 SCALES AS NOTED	PACIFIC GAS AND ELECTRIC COMPANY SAN FRANCISCO, CALIFORNIA	M-03-01	REV 1

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GROUT
IZE TBD)
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1	$1-\frac{1}{2}$ " PVC DROP PIPE (MATERIALS TBD)
2	CUSTOM TAPPED WELL FLANGE
3	1/4" DIAMETER HOSE FROM PACKER TO FILL ASSEMBLY
4	PNEUMATIC WELL PACKER
5	WELL CASING (MATERIALS TBD)
6	1" PVC TUBING (STILLING WELL WITH PRESSURE TRANSDUCER)
7	ANNULAR SPACE, 100% NEAT CEMENT GROUT
8	ANNULAR SPACE, TRANSITION SAND (SIZE TBD)
9	ANNULAR SPACE, FILTER PACK (TYPE TBD)
10	WELL SCREEN (MATERIALS TBD)
11	SPRING CHECK VALVE (TYPE AND MATERIALS TBD)
12	SUMP
13	3/4" PACKER PRESSURE RELIEF SAFETY VALVE
14	3" BACKWASH PIPING
15	BACKWASH PUMP

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	EXTRACTION WELL VAULT SCHEDULE								
ITEM	PIPE SIZE	MATERIAL	ID TAG						
1	2"	HDPE	HDPE EXTRACTED GROUNDWATER EXTRACTED WATER CONVEYANCE LINE						
2	2"	PVC	EXTRACTED GROUNDWATER	ISOLATION BALL VALVE - EQUIPPED WITH STEM EXTENSION TO ALLOW FOR OPERATION FROM OUTSIDE THE VAULT	V-*401D				
3	2"	PVC	EXTRACTED GROUNDWATER	BALL VALVE	V-*401A				
4	1"	TEFLON	EXTRACTED GROUNDWATER	MAGNETIC FLOWMETER	FM-*470A				
5	2"	PVC	EXTRACTED GROUNDWATER	CHECK VALVE	V-*401C				
6	2"	PVC	EXTRACTED GROUNDWATER	GLOBE VALVE	V-*401B				
7	1/2"	TBD	EXTRACTED GROUNDWATER	PRESSURE GAUGE ASSEMBLY	PIT-*460A, V-*460A				
8	1/4"	TBD	EXTRACTED GROUNDWATER	SAMPLE PORT	V-*460B				

NOTES:

ALL PIPING, INSTRUMENTATION, AND OTHER COMPONENTS SHALL BE INSTALLED AS PER THE MANUFACTURER'S GUIDELINES.

ALL PIPING AND INSTRUMENTATION SHALL BE INSTALLED PER P&IDS. INSTALLATION OF ELECTRIC COMPONENTS SHALL COMPLY WITH ALL APPLICABLE NEC AND LOCAL CODES. 2

CROSS SECTIONS SHOW ONLY THOSE COMPONENTS NECESSARY TO INDICATE ELEVATIONS AND SPACE REQUIREMENTS FOR PIPING AND MAJOR COMPONENTS. INSTALL PIPING AND INSTRUMENTATION PER THE P&IDs.

ALL INSTAUDED AND INSTAULED SUCH THAT IT MAY BE READ WITHOUT ENTERING THE WELL VAULT. ALL VALVE HANDLES SHALL BE INSTALLED SUCH THAT IT MAY BE READ WITHOUT ENTERING THE WELL VAULT. ALL VALVE HANDLES SHALL BE INSTALLED SUCH THAT THEY ARE ACCESSIBLE WITHOUT ENTERING THE WELL VAULT AND OPERABLE THROUGH ENTIRE STROKE. ALL PIPING AND CONDUIT SHALL BE SECURED TO THE WALLS OF THE CONCRETE WELL VAULT WITH ANCHOR BOLTS AND UNI-STRUT. SUPPORTS SHALL BE

INSTALLED WHEREVER NECESSARY TO PROPERLY SUPPORT PIPING AND CONDUIT. PIPE SIZES AND MATERIALS ARE SHOWN ON THE P&IDs.

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PIPING KNOCKOUTS AND ROUTING OF PIPING SHOWN AS PROPOSED AND APPROXIMATE. ACTUAL ROUTING TO BE FIELD DETERMINED AND IS SUBJECT TO 9. ENGINEER'S APPROVAL.

ALL FLANGES SHALL BE CLASS 150 RATE FACE FLANGES UNLESS OTHERWISE SPECIFIED.
 ALL TRANSITION FITTINGS FOR HDPE PIPING SHALL BE FLANGED WITH BACKING RINGS.









DESCRIPTION

REVISIONS

IPB IFF LUK KLD JPB JEF

GM/SPEC DWN CHKD SUPV APVD BY

PRE-FINAL (90%) DESIGN

DESCRIPTION

REVISIONS

0 04/05/13 INTERMEDIATE (60%) DESIG

GM/SPEC DWN CHKD SUPV APVD BY NO. DATE

80 PVC /ASH LINES		
		_ FOLD
	ID TAG	
DNVEYANCE LINE	-	
	V-*403A	
	F-*403	
=	EV-*407 EV-*408	
 R	EM-*472A EM-*472B	
	V-*403B V-*404G	
RI V	V-*403E V-*403C V-*404H V-*404I	
	V-*462A PL*462A V-*462E PL*462E	
	V *462B V *462E	
	V= 402D, V= 4021	
	-	
SION TO ALLOW FOR OPERATION	V-*405B	
IBLY	V-*462G, PI-*462B	
	V-*462H	
	V-*405C	- DRAFT -
	V-*405A	CONSTRUCTION
SO TOPOCK GROUN	DWATER REMEDIATION PROJECT	MICROFILM BILL OF MATL DWG LIST
	ON WELL VAULTS	SUPSD BY
		SHEET NO. of SHEETS
SCALES 1" = 1'-0" PACIFIC GAS	AND ELECTRIC COMPANY ANCISCO, CALIFORNIA	M-03-04
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					MICROFILM		
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JPV	JPB		TCS LOOP EAST RAVINE	-	DWG LIST		
	KLD		EXTRACTION WELL	-	SUPSDS		
	JPB				SUPSD BY		
<u>(</u> J	EF				SHEET NO.	of	SHEETS
CALE	09/08/14 S 1" = 1'-0"	PA	CIFIC GAS AND ELECTRIC COMPAN SAN FRANCISCO, CALIFORNIA	IY	E-03	3-01	<b>REV</b> 1
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	— SEE NOTE 3 <u>P-20</u> (PMP *441)					
11 3 *						
	OR SCHEDULE CONDUCTOR OR CABLE TYPE	CONDUIT SIZE (INCHES)				FOLD
DIAG	XHHW XHHW XHHW XHHW XHHW XHHW XHHW BELDEN 9952 BELDEN 9954 BELDEN 9305FE XHHW RAMS. SOME OF THE	1 1 3/4" 1 1 1 2 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 5YMBOLS MAY				
D JPV SGN KD JEF VN KJEF CALES	JPB         TOPOC           KLD         TCS           LUK         BE           09/08/14         PACIF           1" = 1'-0"         PACIF	IK GROUNDWATER I S LOOP TRA NCH EXTRA ELECTRIC GAS TRANSMISSION & IC GAS AND ELI SAN FRANCISCO,	REMEDIATION PROJA NSWESTER CTION WEL CAL PLAN © DISTRIBUTION ECTRIC COMPANY CALIFORNIA	ect RN LL Y	- DRAFT - NOT FOR CONSTRUCTION BILL OF MATL DWG LIST SUPSD BY SHEET NO. OF SHEETS E-03-02 REV 1	



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E, SIZE, AND QTY.	CABLE TYPE	(INCHES)		
E DIAGRAM.	1	· · · · ·		
N (7)#14YEL (1)#14WHT	XHHW	1	_	
T, (1)#12GRN, (7)#14YEL,	XHHW	1	-	
RN, (14)#14YEL, (2)#14WHT	XHHW	2	-	
RN	XHHW	3/4"		
I,(1)#12RED, (1)#12WHT	XHHW	1		
RN, (7)#14YEL, (1)#14WHT	XHHW	1		
T, (1)#12GRN, (4)14YEL,	XHHW	1	_	
PTIC		2	-	
R SHIELDED CABLE	BELDEN 9952	3/4"		
R SHIELDED CABLE	BELDEN 9954	3/4"		
R SHIELDED CABLE	BELDEN 5305FE	3/4"		
.K, (1)#16WHT, (1)#16GRN	XHHW	3/4"		
LIES TO ALL VAULT RISER D	IAGRAMS. SOME OF THE	SYMBOLS MAY		
S DRAWING.				
			- DRAF NOT FC CONSTRUC	T - DR CTIO
			MICROFILM	
			BILL OF MATI	
JPB TOFOCK GK		IN FROJECT	DWC LIST	
KLD			SUBSUS	
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GAS	TRANSMISSION & DISTRIBUTIO	N	SHEET NO. OI	
1" = 1'-0" PACIFIC G/	AS AND ELECTRIC C FRANCISCO, CALIFORN		E-03-03	



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	NOTES 1. TAG NUMBER "*" IS A PI	LACEHOLDER I	FOR THE STATION	
	SCADA ID. THE LOCATI ERXX-". EXCHANGE "ER INSTRUMENT REFEREN	ON ID FOR THE XXX-" FOR "*" TO ICE. REFER TO	E EAST RAVINE IS " O COMPLETE TAG OR O SHEET I-00-03 FOR A	
	2. SEE SHEET I-00-03 FOR 3. CONTRACTOR TO PLAC AND AIR RELIEF VALVE	S. INTERLOCK TA CE CLEANOUTS	ABLE. 3, LOW POINT DRAINS N SHOWN ON CIVIL	
	SHEETS. 4. SIMILAR FOR EACH INT	ERVAL.		
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D SO SUPV_JPB		PROJECT	MICROFILM BILL OF MATL DWG LIST	aphics\AR\
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СНКО ЈРВ ОК ЈЕГ DATE 09/08/14	GAS TRANSMISSION & DISTRIBUTION	MPANY	SHEET NO. of SHEETS	/2014, 10:
SCALES NONE	SAN FRANCISCO, CALIFORNIA		I-U3-U1 1	08/27
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	2	TO COMPLETE TAG SHEET I-00-03 FOR	OR INSTRUMENT A TABLE OF LOCA	REFERENCE. REFER TO	
	3	CONTRACTOR TO P AND AIR RELIEF VA	LVES AT LOCATIO	S, LOW POINT DRAINS ON SHOWN ON CIVIL	
	4	SHEETS. SIMILAR FOR EACH	INTERVAL.		
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				- DRAFT - NOT FOR	t 90%\ -034
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SUPV JPB DSGN MWM			ESTERN	DWG LIST SUPSDS	G:\Graphic
OK JEF		WELLS P&ID		SUPSD BY SHEET NO. of SHEE	14, 10:59, 0
SCALES NONE		AS AND ELECTRIC		I-03-02	08/27/20

