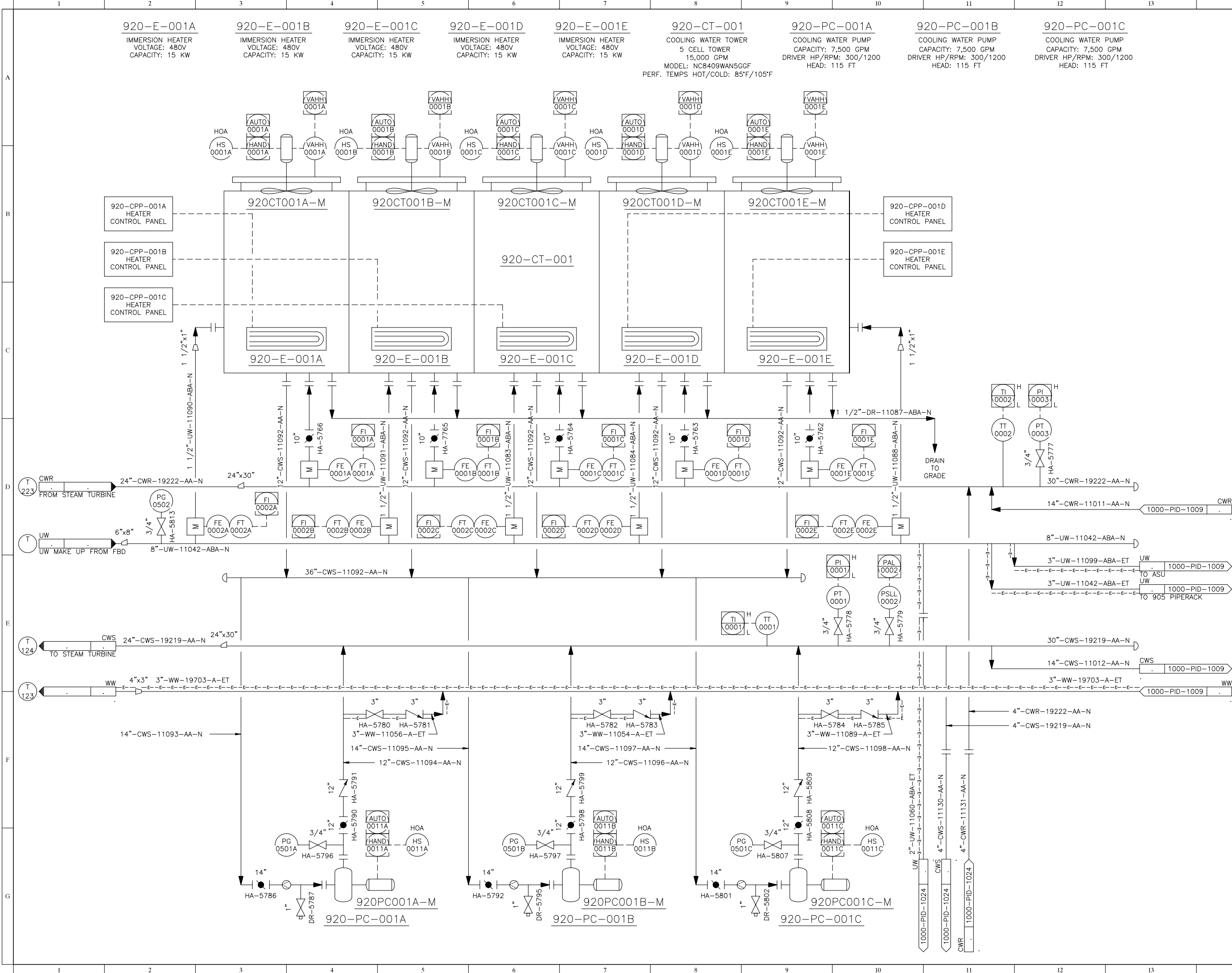




NOTES

1037	1010	1038	1039
1034	1009	1035	1036
	1008	1030	1031
	1007	1026	1027
	1006	1021	1022
1023	1005	1019	1020
1024	1004	1017	1018
1015	1003	1017	1018
1016	1002	1011	1012
	1001	1013	1014

PIPERACK KEY PLAN

REV	DESCRIPTION	DATE	REVD	APVD
-	-	-/-	-	-
-	-	-/-	-	-
-	-	-/-	-	-
-	-	-/-	-	-
B.5.0	ADDED TO SET	09/16/20	RB	Rnk

PLANT PROCESS

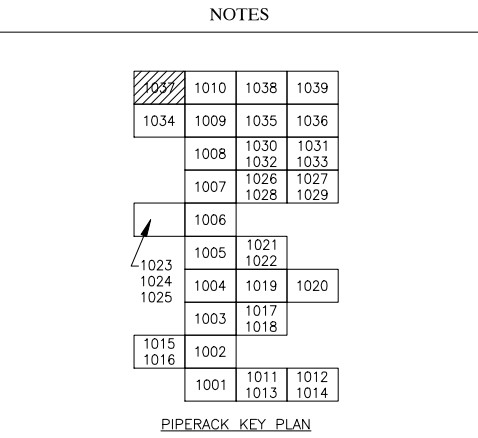
2525 SOUTH SHORE BLVD, SUITE 410, LEAGUE CITY TEXAS, 77573, U.S.A. PHONE: 281-333-7700

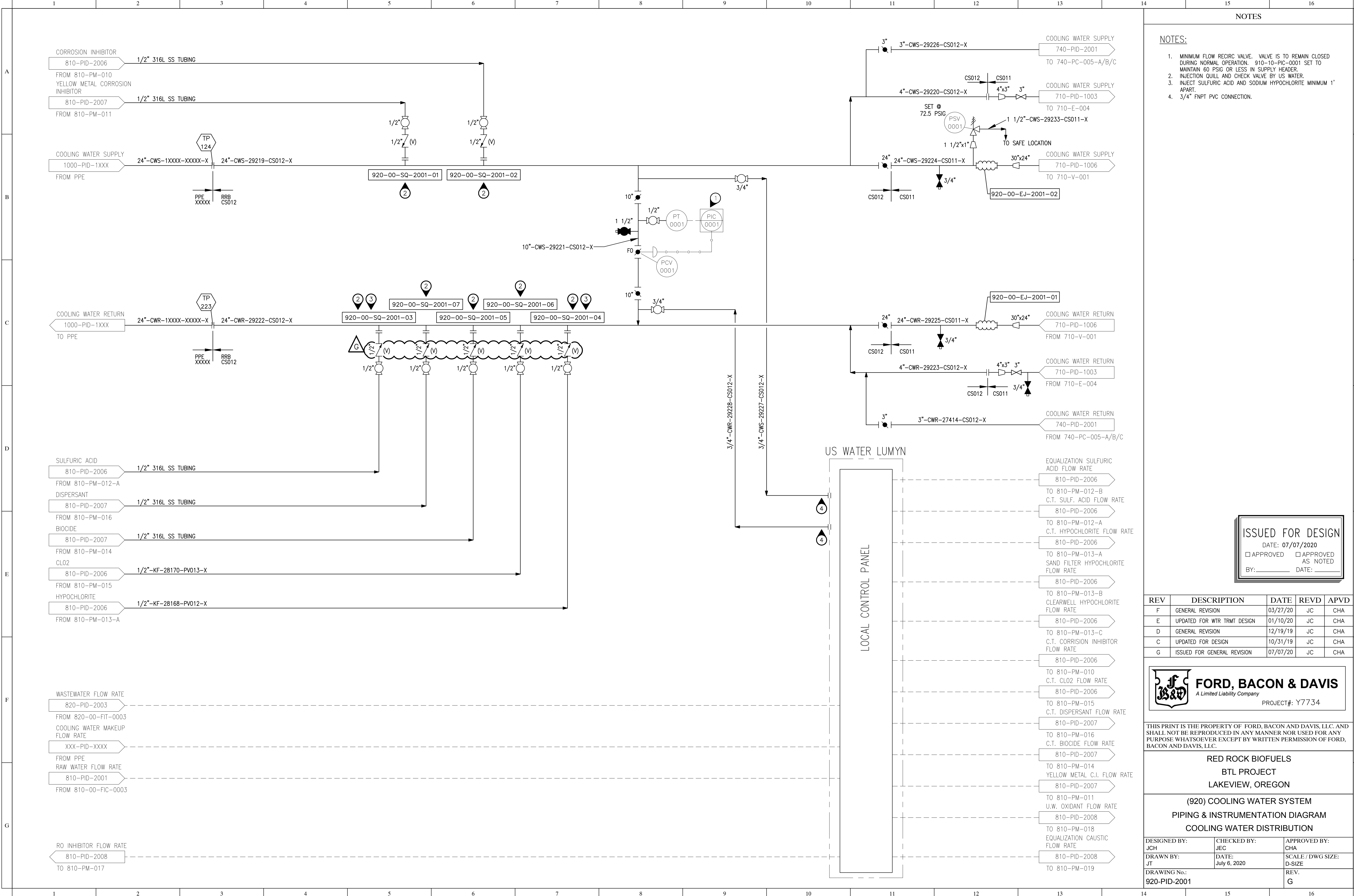
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Red Rock Biofuels, LLC
Biomass Project
Lakeview, Oregon, USA

PIPING & INSTRUMENTATION DIAGRAM
AREA 9 - BALANCE OF PLANT
UNIT 920 - COOLING WATER SYSTEM AT PIPERACK

DESIGNED BY: SA	CHECKED BY: RB	APPROVED BY: JB
DRAWN BY: SA	DATE: August 20, 2020	SCALE / DWG SIZE: D-SIZE
DRAWING No.: 920-PID-1034		ISSUE STATE: B
		REVISION: 5





- NOTES:
1. MINIMUM FLOW RECIRC. VALVE. VALVE IS TO REMAIN CLOSED DURING NORMAL OPERATION. 910-10-PIC-0001 SET TO MAINTAIN 60 PSIG OR LESS IN SUPPLY HEADER.
 2. INJECTION QUILL AND CHECK VALVE BY US WATER.
 3. INJECT SULFURIC ACID AND SODIUM HYPOCHLORITE MINIMUM 1' APART.
 4. 3/4" FNPT PVC CONNECTION.

ISSUED FOR DESIGN

DATE: 07/07/2020

☐ APPROVED ☐ APPROVED

☐ AS NOTED

BY: _____ DATE: _____

REV	DESCRIPTION	DATE	REV D	APVD
F	GENERAL REVISION	03/27/20	JC	CHA
E	UPDATED FOR WTR TRMT DESIGN	01/10/20	JC	CHA
D	GENERAL REVISION	12/19/19	JC	CHA
C	UPDATED FOR DESIGN	10/31/19	JC	CHA
G	ISSUED FOR GENERAL REVISION	07/07/20	JC	CHA

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A Limited Liability Company

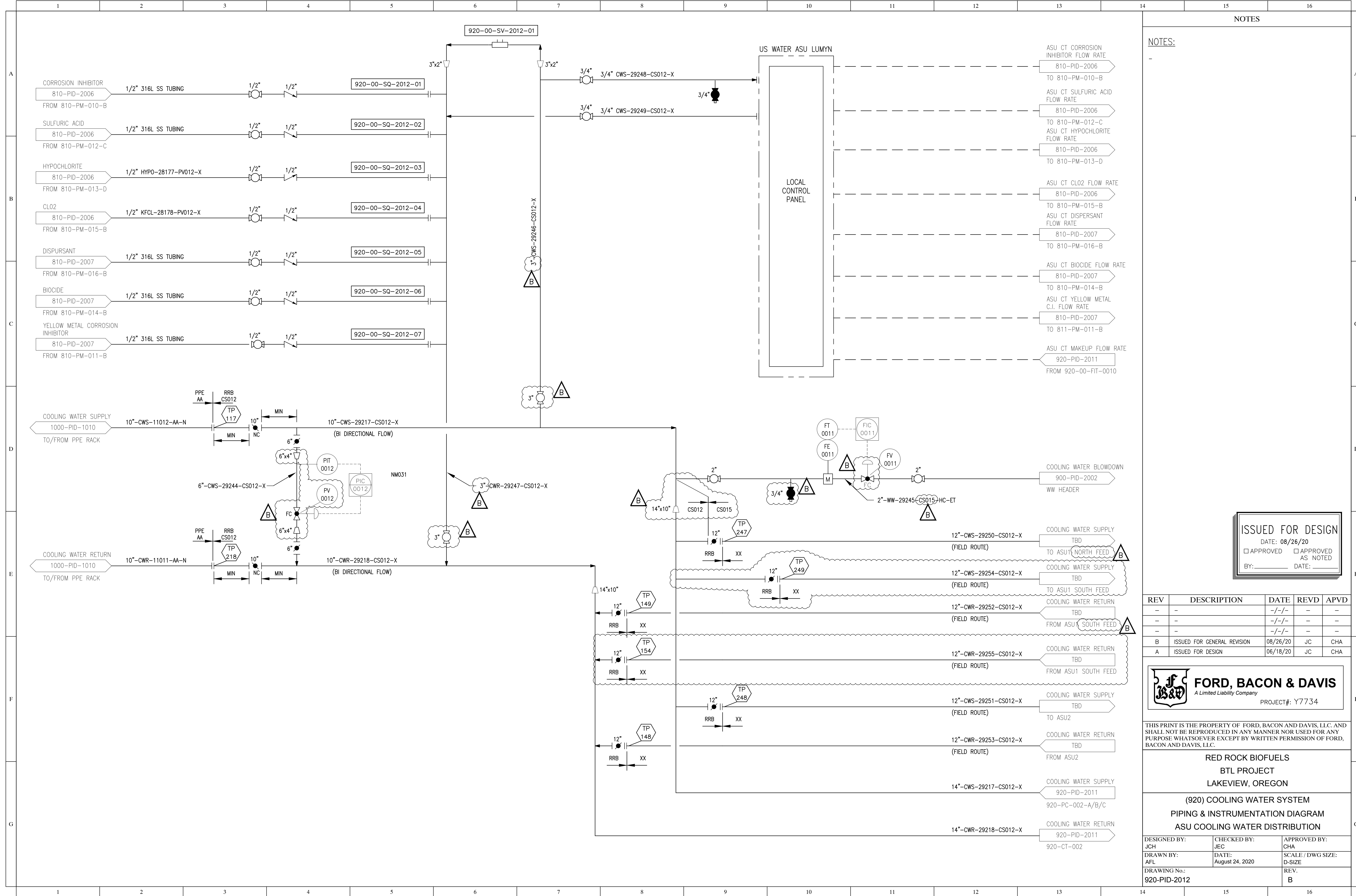
PROJECT#: Y7734

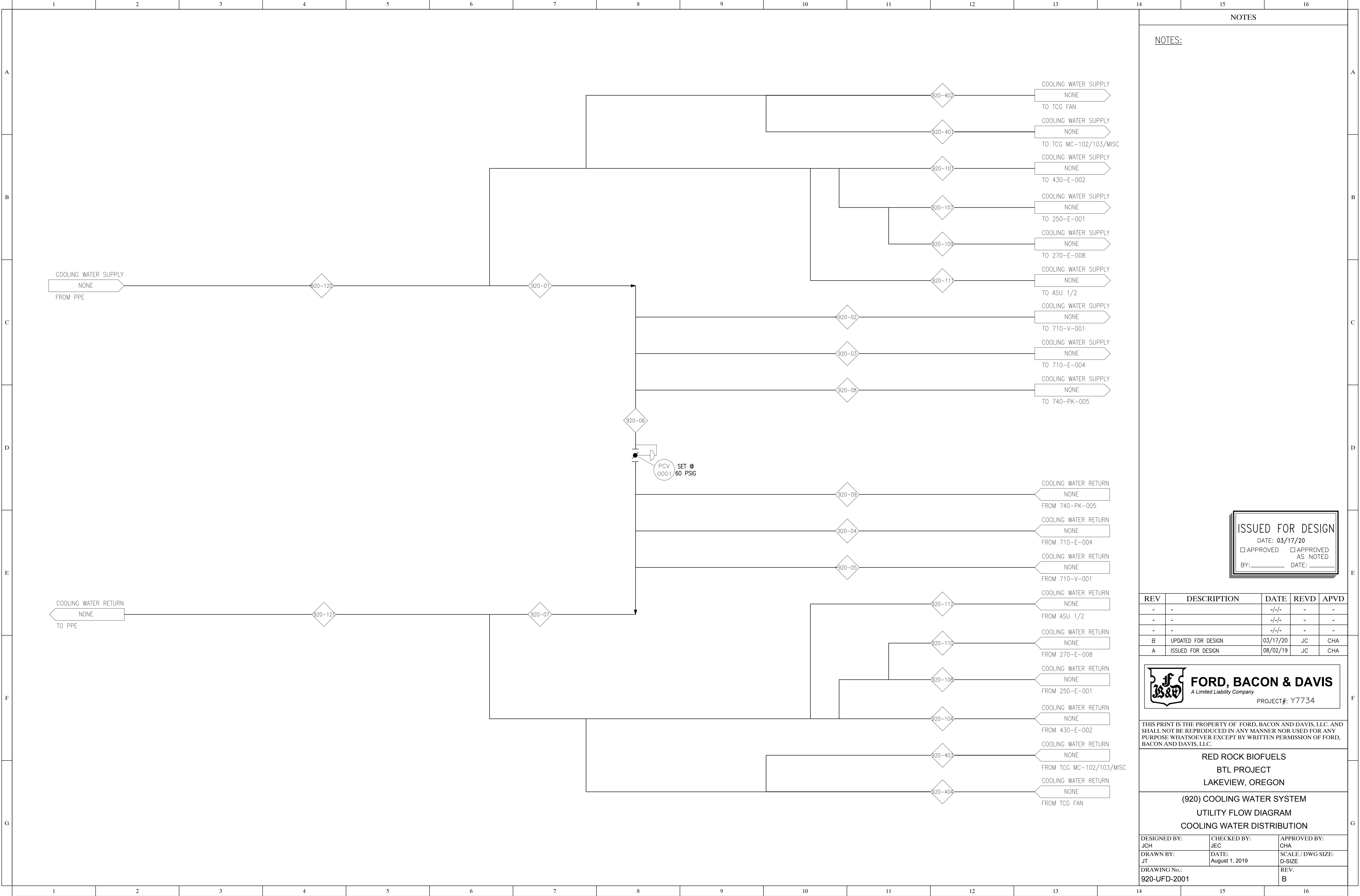
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RED ROCK BIOFUELS
BTL PROJECT
LAKEVIEW, OREGON

(920) COOLING WATER SYSTEM
PIPING & INSTRUMENTATION DIAGRAM
COOLING WATER DISTRIBUTION

DESIGNED BY: JCH	CHECKED BY: JEC	APPROVED BY: CHA
DRAWN BY: JT	DATE: July 6, 2020	SCALE / DWG SIZE: D-SIZE
DRAWING No.: 920-PID-2001		REV. G





NOTES:

ISSUED FOR DESIGN
DATE: 03/17/20
APPROVED AS NOTED
BY: DATE:

REV	DESCRIPTION	DATE	REVD	APVD
-	-	-/-	-	-
-	-	-/-	-	-
-	-	-/-	-	-
B	UPDATED FOR DESIGN	03/17/20	JC	CHA
A	ISSUED FOR DESIGN	08/02/19	JC	CHA



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PROJECT#: Y7734

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RED ROCK BIOFUELS
BTL PROJECT
LAKEVIEW, OREGON

(920) COOLING WATER SYSTEM
UTILITY FLOW DIAGRAM
COOLING WATER DISTRIBUTION

DESIGNED BY: JCH	CHECKED BY: JEC	APPROVED BY: CHA
DRAWN BY: JT	DATE: August 1, 2019	SCALE / DWG SIZE: D-SIZE
DRAWING No.: 920-UFD-2001		REV. B