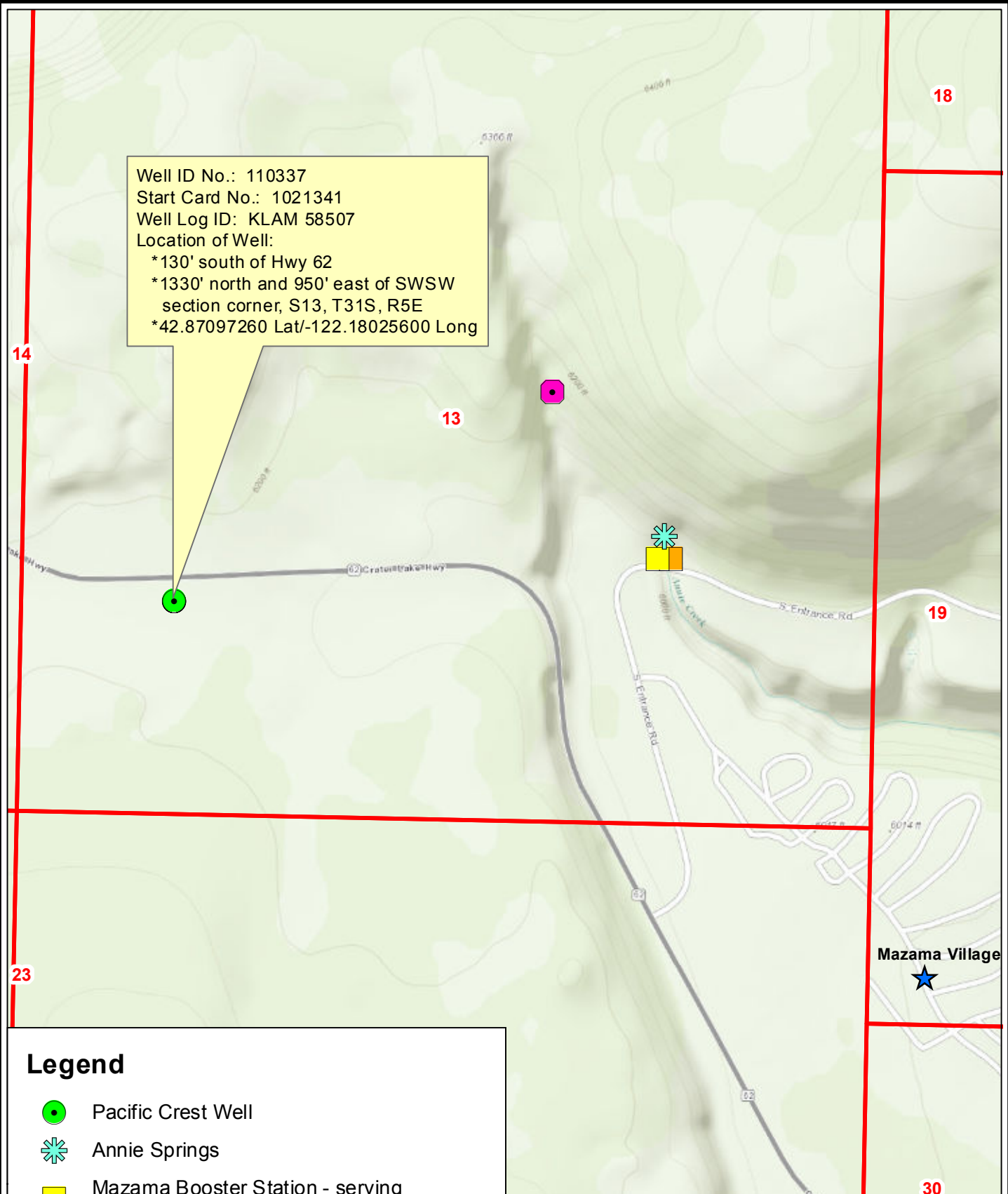







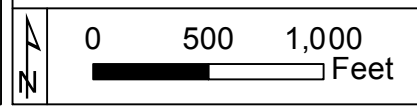
Well ID No.: 110337  
 Start Card No.: 1021341  
 Well Log ID: KLAM 58507  
 Location of Well:  
 \*130' south of Hwy 62  
 \*1330' north and 950' east of SWSW  
 section corner, S13, T31S, R5E  
 \*42.87097260 Lat/-122.18025600 Long

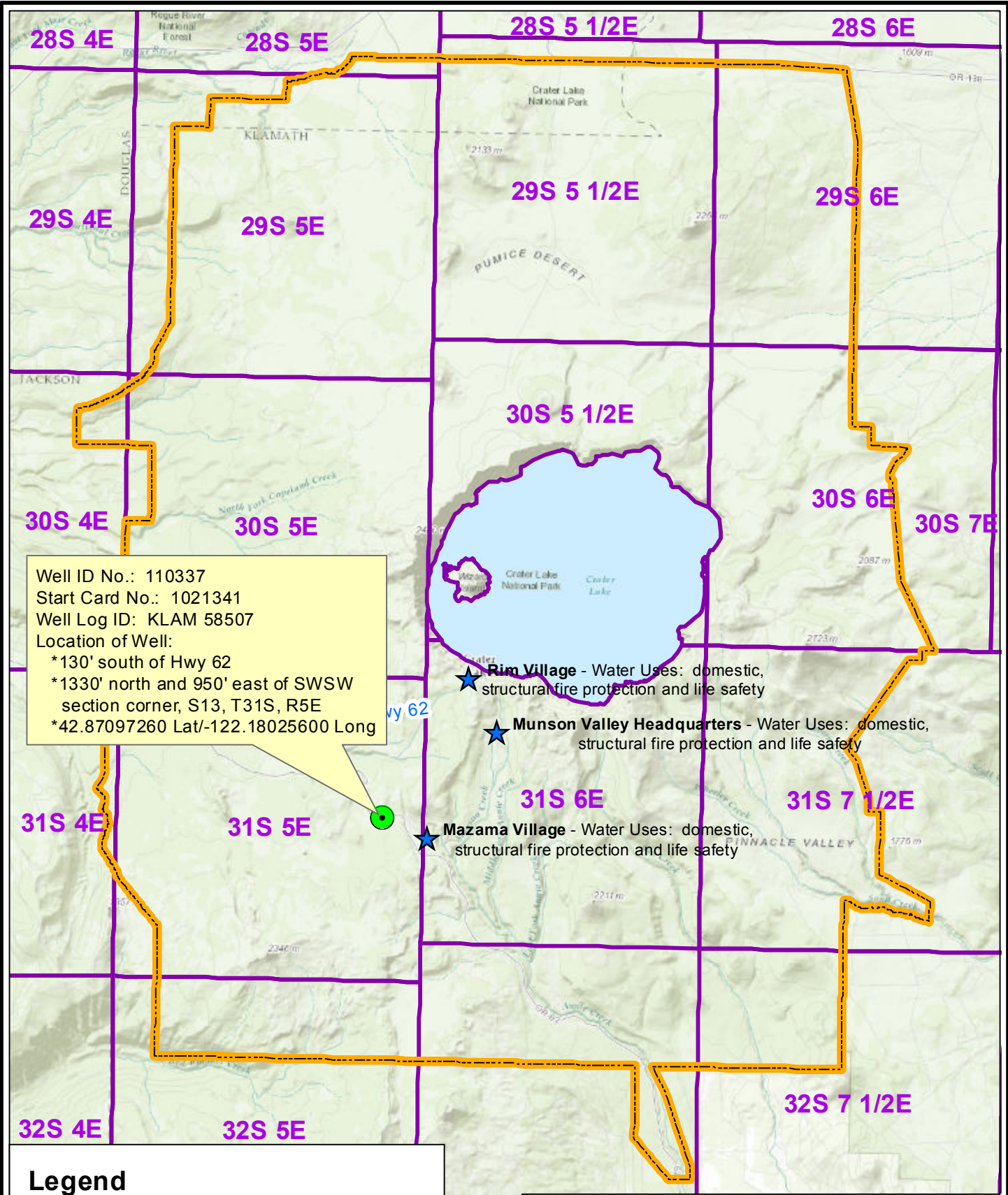


**Legend**

-  Pacific Crest Well
-  Annie Springs
-  Mazama Booster Station - serving Mazama Village
-  Annie Spring Booster Station - serving Rim Village & Munson Valley HQ
-  Mazama Tanks

**Permit Application Map**





Well ID No.: 110337  
 Start Card No.: 1021341  
 Well Log ID: KLAM 58507  
 Location of Well:  
 \* 130' south of Hwy 62  
 \* 1330' north and 950' east of SWSW section corner, S13, T31S, R5E  
 \* 42.87097260 Lat/-122.18025600 Long

- ★ **Rim Village** - Water Uses: domestic, structural fire protection and life safety
- ★ **Munson Valley Headquarters** - Water Uses: domestic, structural fire protection and life safety
- ★ **Mazama Village** - Water Uses: domestic, structural fire protection and life safety

**Legend**

- Pacific Crest Well
- Areas to be Served by Well
- Crater Lake National Park Boundary

**Permit Application - Area Map**

0 1.5 3 Miles

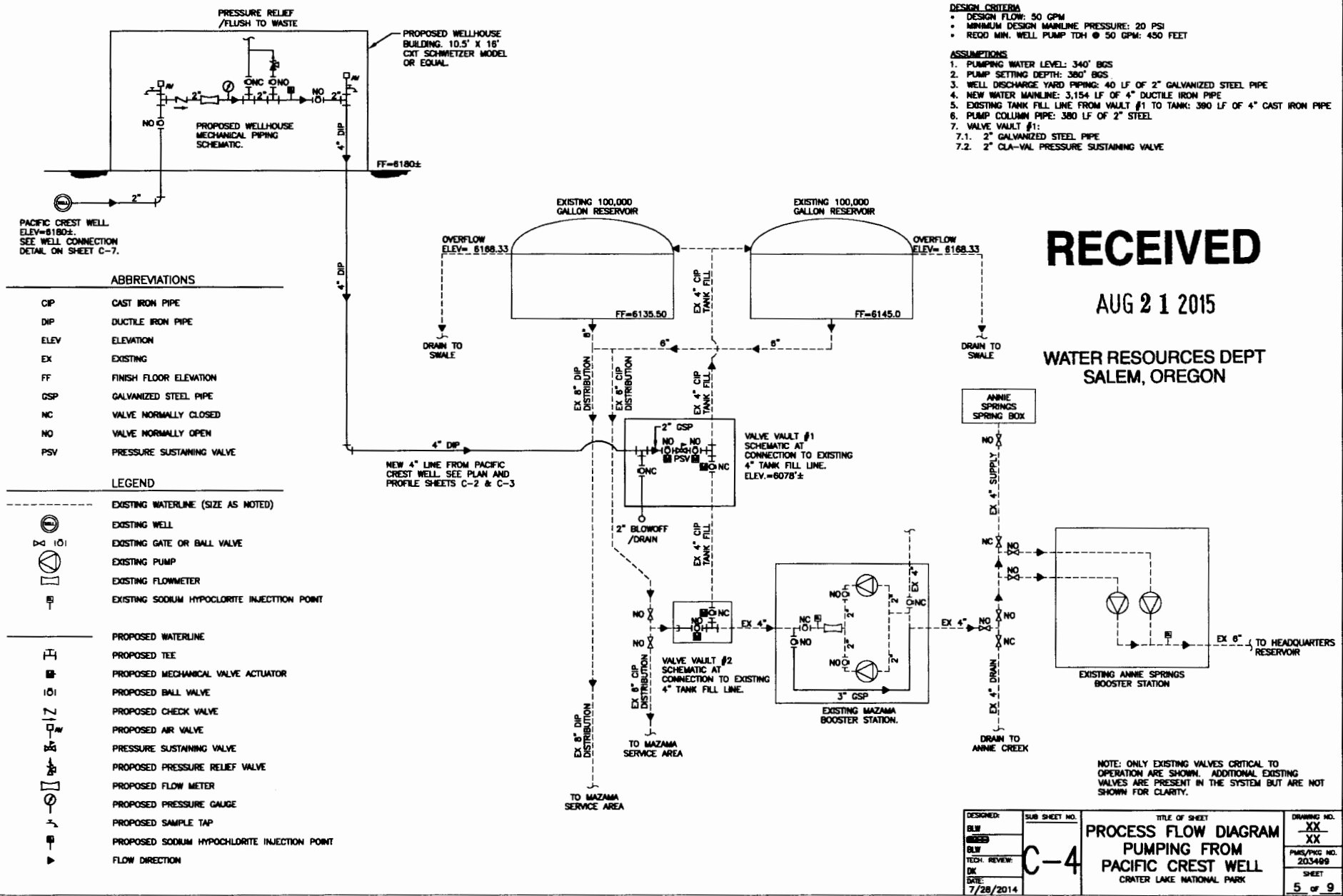
P:\Projects\2013\08\01\CRATER LAKE NATIONAL PARK\Process Flow Schematic\Process Flow Schematic.dwg Plot Date: Sep 22, 2014 11:02:33am CAD User: mwhitman  
 P:\Projects\2013\08\01\CRATER LAKE NATIONAL PARK\Process Flow Schematic\Process Flow Schematic.dwg Plot Date: Sep 22, 2014 11:02:33am CAD User: mwhitman

- DESIGN CRITERIA**
- DESIGN FLOW: 50 GPM
  - MINIMUM DESIGN MAINLINE PRESSURE: 20 PSI
  - REQD MIN. WELL PUMP TDH @ 50 GPM: 450 FEET
- ASSUMPTIONS**
1. PUMPING WATER LEVEL: 340' BGS
  2. PUMP SETTING DEPTH: 380' BGS
  3. WELL DISCHARGE YARD PIPING: 40 LF OF 2" GALVANIZED STEEL PIPE
  4. NEW WATER MAINLINE: 3,154 LF OF 4" DUCTILE IRON PIPE
  5. EXISTING TANK FILL LINE FROM VAULT #1 TO TANK: 380 LF OF 4" CAST IRON PIPE
  6. PUMP COLUMN PIPE: 380 LF OF 2" STEEL
  7. VALVE VAULT #1:
    - 7.1. 2" GALVANIZED STEEL PIPE
    - 7.2. 2" CLA-VAL PRESSURE SUSTAINING VALVE

RECEIVED

AUG 21 2015

WATER RESOURCES DEPT  
SALEM, OREGON



**ABBREVIATIONS**

CIP	CAST IRON PIPE
DIP	DUCTILE IRON PIPE
ELEV	ELEVATION
EX	EXISTING
FF	FINISH FLOOR ELEVATION
GSP	GALVANIZED STEEL PIPE
NC	VALVE NORMALLY CLOSED
NO	VALVE NORMALLY OPEN
PSV	PRESSURE SUSTAINING VALVE

**LEGEND**

(Symbol)	EXISTING WATERLINE (SIZE AS NOTED)
(Symbol)	EXISTING WELL
(Symbol)	EXISTING GATE OR BALL VALVE
(Symbol)	EXISTING PUMP
(Symbol)	EXISTING FLOWMETER
(Symbol)	EXISTING SODIUM HYPOCHLORITE INJECTION POINT
(Symbol)	PROPOSED WATERLINE
(Symbol)	PROPOSED TEE
(Symbol)	PROPOSED MECHANICAL VALVE ACTUATOR
(Symbol)	PROPOSED BALL VALVE
(Symbol)	PROPOSED CHECK VALVE
(Symbol)	PROPOSED AIR VALVE
(Symbol)	PRESSURE SUSTAINING VALVE
(Symbol)	PROPOSED PRESSURE RELIEF VALVE
(Symbol)	PROPOSED FLOW METER
(Symbol)	PROPOSED PRESSURE GAUGE
(Symbol)	PROPOSED SAMPLE TAP
(Symbol)	PROPOSED SODIUM HYPOCHLORITE INJECTION POINT
(Symbol)	FLOW DIRECTION

DESIGNED: BLW	SUB SHEET NO. C-4	TITLE OF SHEET <b>PROCESS FLOW DIAGRAM PUMPING FROM PACIFIC CREST WELL</b> CRATER LAKE NATIONAL PARK	DRAWING NO. XX
CHECKED: BLW			PMS/PMC NO. 203489
DATE: 7/28/2014			SHEET 5 of 9

NOTE: ONLY EXISTING VALVES CRITICAL TO OPERATION ARE SHOWN. ADDITIONAL EXISTING VALVES ARE PRESENT IN THE SYSTEM BUT ARE NOT SHOWN FOR CLARITY.