

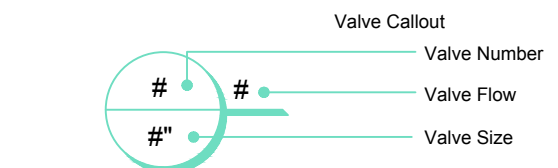
IRRIGATION NOTES

- GENERAL
- PLAN IS SCHEMATIC - COMMON TRENCH IF POSSIBLE.
 - ALL PIPE AND EQUIPMENT (EXCEPT COPPER PIPE, CONTROLLERS, WIRE SLEEVES, AND PIPES SHOWN IN SLEEVES, SHALL BE INSTALLED IN PLANTER AREAS. SOME SHOWN IN PAVED AREAS ON PLAN FOR GRAPHIC CLARITY.
 - PIPE SIZES NOTED ON PLAN
 - SLEEVE UNDER ALL PAVED SURFACES. SLEEVES TO BE TWICE DIAMETER OF LINE. SCH 40 PVC (4-IN MIN.)
 - COORDINATE PIPE SLEEVING, WIRE-PULLS AND PAVEMENT CROSS-OVERS WITH GENERAL CONTRACTOR PRIOR TO ROUGH GRADING. GENERAL CONTRACTOR SHALL STUB UP AND CAP SLEEVES 12"-18" INSIDE PLANTERS.
 - BRAND & ID APPURTENANCES
 - ALL EQUIPMENT SHALL BE SUPPLIED AND INSTALLED AS DESCRIBED IN THE SPECIFICATIONS, OR AS SHOWN IN THE DETAILS.
- CONTROLLER
- EXACT LOCATION FOR IRRIGATION CONTROLLER SHALL BE DETERMINED ON SITE BY OWNER'S REPRESENTATIVE & GENERAL CONTRACTOR. COORDINATE POWER SUPPLY AND WIRE SLEEVING WITH GENERAL CONTRACTOR.
 - CONTROLLER IS PLANNED TO BE IN THE MECHANICAL ROOM
 - PROGRAM CONTROLLER TO IRRIGATE ZONES IN NUMERIC ORDER SHOWN ON PLAN TO ALLOW INFILTRATION OF APPLIED WATER, AND REDUCE RUNOFF.
- VALVES
- LOCATE IRRIGATION CONTROL VALVES (1 PER BOX) IN SHRUB BEDS, APPROXIMATELY 12"-18" FROM PAVEMENTS, WALKS, ETC.. VALVES SHALL NOT BE LOCATED IN LAWN AREAS UNLESS SHOWN AWAY FROM SHRUB BEDS
 - SOLENOID VALVE ADJUSTMENT: CLOSE FLOW CONTROL UNTIL SPRINKLER RADIUS IS AFFECTED THEN OPEN 1/2 TURN FOR OPTIMUM DIAPHRAGM LIFE
- SPRINKLERS AND DRIP
- ADJUST RADIUS OF SPRINKLER FOR OVERTHROW

- TRENCHING & SITE PROTECTION
- EXISTING TREES TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION.
 - TRENCHING BENEATH THE THE DRIPLINE OF EXISTING TREES SHALL BE AVOIDED,AND SHALL BE PERFORMED MANUALLY WHEN NECESSARY.
- NON-IRRIGATED AREAS
- NON-IRRIGATED AREAS SHALL BE WATERED AND MAINTAINED AS DESCRIBED IN THE "TURF AND GRASSES" SPECIFICATIONS. AS STATED THEREIN:
 - CONTRACTOR IS RESPONSIBLE FOR IRRIGATION AND MAINTENANCE OF TURF AS FOLLOWS:
 - SEEDING TURF: 60 DAYS FROM DATE OF PLANTING COMPLETION
 - SODDED TURF: 30 DAYS FROM DATE OF PLANTING COMPLETION
 - WHEN INITIAL MAINTENANCE PERIOD HAS NOT ELAPSED BEFORE END OF PLANTING SEASON, OR IF TURF IS NOT FULLY ESTABLISHED, CONTINUE MAINTENANCE DURING NEXT PLANTING SEASON.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
75	RAIN BIRD 3504-PC-SAM 0.75 TURF ROTOR, 4IN. POP-UP, ADJUSTABLE AND FULL CIRCLE. WITH SEAL-A-MATIC CHECK VALVE.	2	25
10	RAIN BIRD 3504-PC-SAM 1.0 TURF ROTOR, 4IN. POP-UP, ADJUSTABLE AND FULL CIRCLE. WITH SEAL-A-MATIC CHECK VALVE.	2	25
10	RAIN BIRD 5004-PC-RLA 1.0 TURF ROTOR, 4IN. POP-UP, PLASTIC RISER, ADJUSTABLE TO FULL CIRCLE. LOW ANGLE NOZZLE. PRESSURE REGULATING.	6	35
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
■	RAIN BIRD XCZ-100-PRB-COM 1" WIDE FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1IN. BALL VALVE WITH 1IN. PESB VALVE AND 1IN. PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. 5 GPM-20 GPM.	3	
⦿	RAIN BIRD OPERIND DRIP SYSTEM OPERATION INDICATOR, STEM RISES 6IN. FOR CLEAR VISIBILITY WHEN DRIP SYSTEM IS CHARGED TO A MINIMUM OF 20PSI. INCLUDES 16IN. OF 1/4IN. DISTRIBUTION TUBING WITH CONNECTION FITTING PRE-INSTALLED.	7	
○	RAIN BIRD XFCV-06-18 DRIP RING	33	20
■	AREA TO RECEIVE DRIP EMITTERS		
■	RAIN BIRD XB-PC SINGLE OUTLET, PRESSURE COMPENSATING DRIP EMITTERS. FLOW RATES OF 05PC 0.5 GPH=BLUE, 10PC 1.0 GPH=BLACK, AND 20PC 2.0 GPH=RED. COMES WITH A SELF-PIERCING BARB INLET X BARB OUTLET.	14,577 SF	20
■	Emitter Notes: 05PC emitters (1 assigned to each 1 gal. plant)	232	
■	05PC emitters (2 assigned to each 3 gal. plant)	150	
■	05PC emitters (1 assigned to each 4" plant)	67	
■	05PC emitters (2 assigned to each 5 gal. plant)	26	
■	10PC emitters (3 assigned to each 1.5" Cal., Min. plant)	18	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
●	RAIN BIRD PEB 1" 1IN., 1-1/2IN., 2IN. PLASTIC INDUSTRIAL REMOTE CONTROL VALVE. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	1	
■	RAIN BIRD 33-DRC 3/4" 3/4IN. BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, THERMOPLASTIC RUBBER COVER, DOUBLE TRACK KEY LUG, AND 2-PIECE BODY.	4	
■	RAIN BIRD ESP4ME3 WITH (1) ESP-SM3 7 STATION, HYBRID MODULAR OUTDOOR CONTROLLER. FOR RESIDENTIAL OR LIGHT COMMERCIAL USE. LINK WIFI MODULE AND FLOW SENSOR READY.	1	
RF	RAIN BIRD WR2-RFC WIRELESS RAIN AND FREEZE SENSOR COMBO, INCLUDES 1 RECEIVER AND 1 RAIN/FREEZE SENSOR TRANSMITTER.	1	
POC	POINT OF CONNECTION 1 1/2" STUB-OUT FROM BASEMENT MECHANICAL ROOM - COORDINATE WITH PLUMBING DRAWINGS.	1	
POC1	POINT OF CONNECTION 1 1/2" STUB-OUT FROM BASEMENT MECHANICAL ROOM - COORDINATE WITH PLUMBING DRAWINGS.	1	
---	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1"	3,075 LF	
---	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 1"	486.5 LF	
---	PIPE SLEEVE: PVC SCHEDULE 40	511.5 LF	

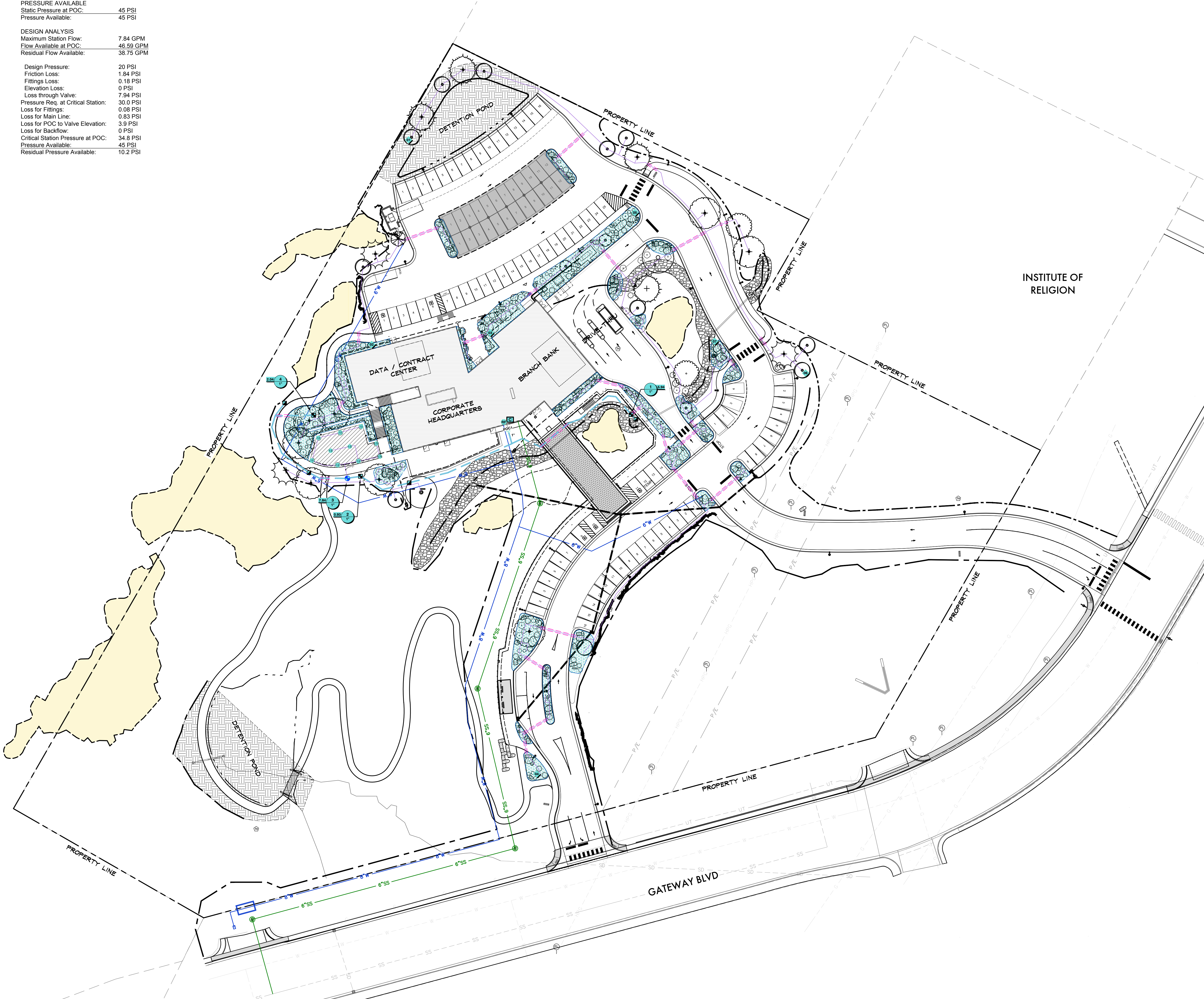


VALVE SCHEDULE

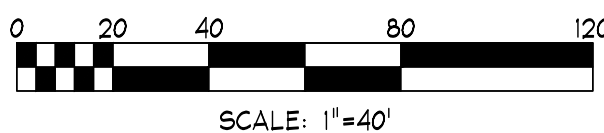
NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
Unknown	RAIN BIRD XCZ-100-PRB-COM	1"	DRIP RING	0.93	27.0	27.9	0.02 in/h	
Unknown	RAIN BIRD PEB	1"	TURF ROTOR	7.84	27.3	29.9	0.54 in/h	
Unknown	RAIN BIRD XCZ-100-PRB-COM	1"	DRIP RING	2.04	27.1	31.2	0.06 in/h	
Unknown	RAIN BIRD XCZ-100-PRB-COM	1"	AREA FOR DRIP EMITTERS	5.94	30.0	34.8	0.1 in/h	

CRITICAL ANALYSIS

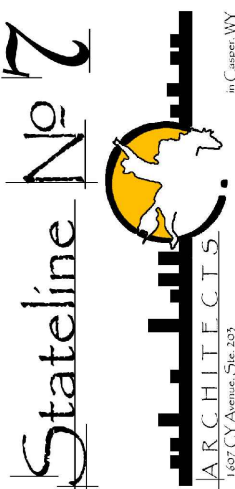
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P.O.C. NUMBER: 01	
Water Source Information:	Stub-out from Basement Mechanical Room - Coordinate with Plumbing Drawings.
FLOW AVAILABLE	
Point of Connection Size:	1 1/2"
Flow Available:	46.59 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	45 PSI
Pressure Available:	45 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	7.84 GPM
Flow Available at POC:	46.59 GPM
Residual Flow Available:	38.75 GPM
Design Pressure:	20 PSI
Friction Loss:	1.84 PSI
Fittings Loss:	0.18 PSI
Elevation Loss:	0 PSI
Loss through Valve:	7.94 PSI
Pressure Req. at Critical Station:	30.0 PSI
Loss for Fittings:	0.08 PSI
Loss for Main Line:	0.83 PSI
Loss for POC to Valve Elevation:	3.9 PSI
Loss for Backflow:	0 PSI
Critical Station Pressure at POC:	34.8 PSI
Pressure Available:	45 PSI
Residual Pressure Available:	10.2 PSI



OVERALL IRRIGATION PLAN



TRONA VALLEY FEDERAL CREDIT UNION
1700 GATEWAY BLVD
ROCK SPRINGS, WYOMING 82901



PROJECT NUMBER
23-018

DATE
09-27-2025

DRAWN BY
MATT FRIDELL

DISK ID.

SHEET TITLE
OVERALL
IRRIGATION
PLAN

SHEET NUMBER

L300