Slow Sand Filter Improvements Using General Contractor/Construction Manager (GC/CM) Alternative Contracting Procedure

Project Review Committee Presentation

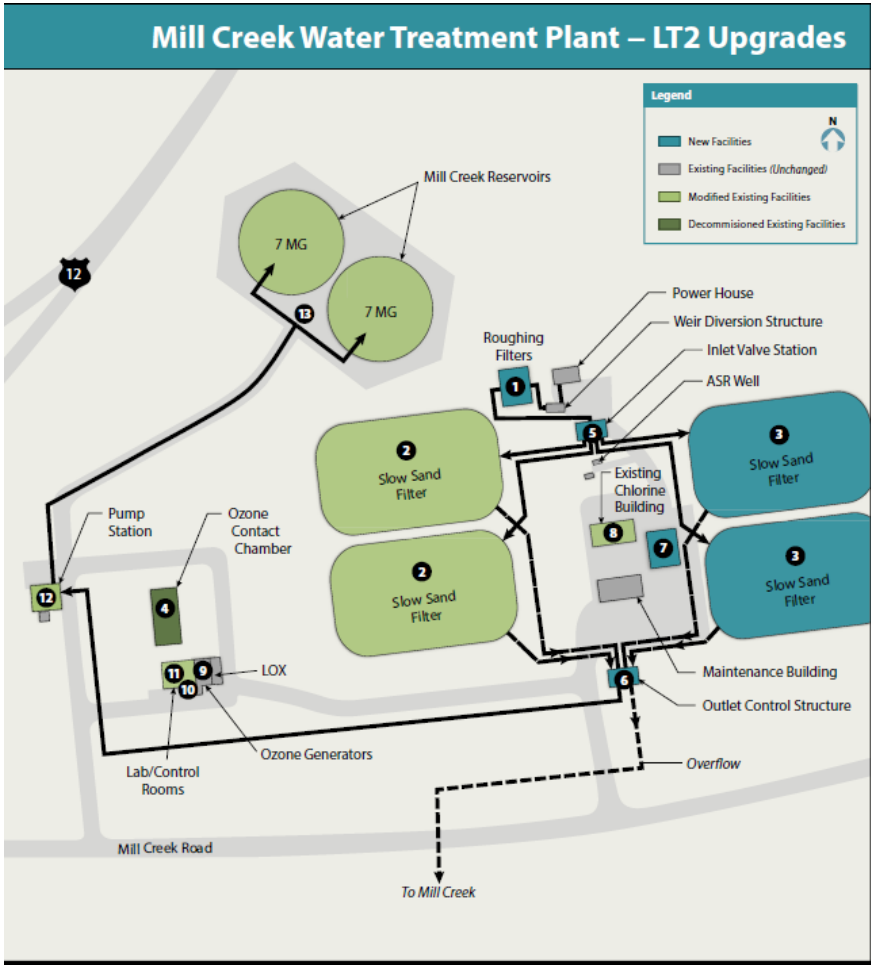
July 24 2014

Presentation Overview

City of Walla Walla Introduction	Ki Bealey
Project Description / Schedule	Frank Nicholson / Pierre Kwan
City Reasons for GC/CM Delivery	Frank Nicholson
GC/CM Team Qualifications and Experience	Frank Nicholson / Pat Tangora
RCW 39.10 Requirements	Pat Tangora
Address PRC Questions	Team

Project Features

- Addition of slow sand filters
- Telemetry and controls upgrades
- Modifications to existing ozone contact facility
- Upgrades to High Service Pump Station



Schedule

Award GC/CM Contract	October 2014
Start Design	May 2014
Complete 30% Design Documents	September/October 2014
Award GC/CM Preconstruction Services Contract / Initiate Independent Review and Estimate of 30% Design	October 2014
Complete 60% Design Documents	April 2015
Complete 90% Design Documents	October 2015
Negotiate MACC	April 2016
Complete Construction Documents	August 2016
Begin Telemetry Construction Package	May 2015
Begin WTP Construction Package	April 2016
Complete Construction	July 2018

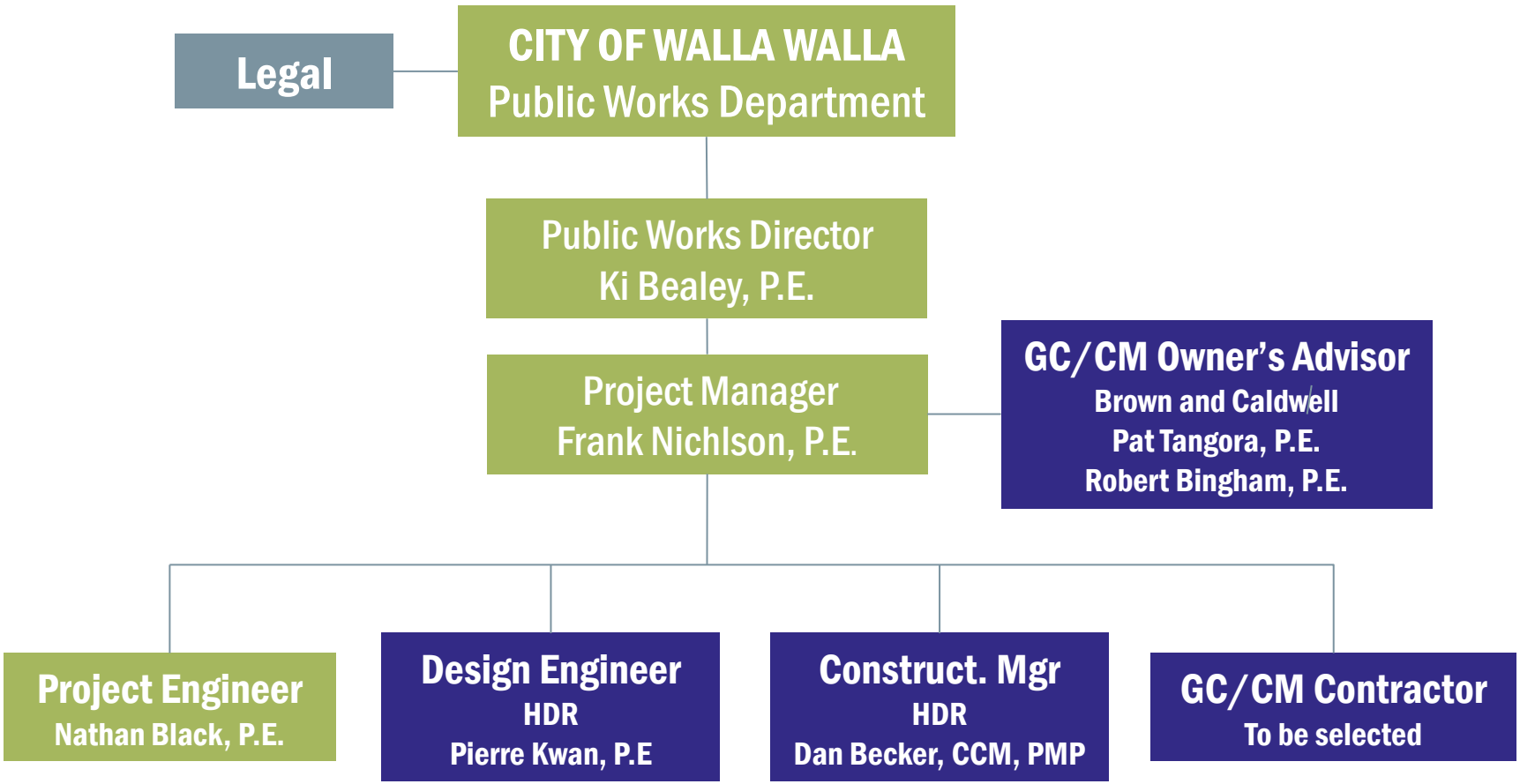
Why the City Selected GC/CM

Early construction contractor involvement results in more collaboration and less risk in addressing the following project challenges:

- Complex scheduling, phasing, and coordination
- Construction at an existing facility that must continue to operate during construction
- Replacement of existing treatment, instrumentation and controls and telemetry equipment while maintaining operational control of facilities

GC/CM Team Experience

GC/CM Team


Legal
CITY OF WALLA WALLA
Public Works Department
Public Works Director
Ki Bealey, P.E.
Project Manager
Frank Nichlson, P.E.
GC/CM Owner's Advisor
Brown and Caldwell
Pat Tangora, P.E.
Robert Bingham, P.E.
Project Engineer
Nathan Black, P.E.
Design Engineer
HDR
Pierre Kwan, P.E
Construct. Mgr
HDR
Dan Becker, CCM, PMP
GC/CM Contractor
To be selected

City Construction Experience

PROJECT	Construction Cost ($MM)	Year
Myra Road Project	3.0	2013
Pleasant/Home/Fern/Statesman Road Project	1.7	2013
Rose Street TBD - 13th Avenue to Carey Court	1.8	2013
Edith/Carrie Road Replacement Project	1.5	2012
New Walla Walla Police Station	6.9	2010-2012
Bonsella-Estrella-Figueroa IRRP	1.1	2011
Whitman Street IRRP	0.8	2011
Landfill Close Area 6	1.6	2010
Replace Palouse Street Bridge	0.9	2009-2010
ARRA 13th Street	2.0	2009-2011
Wastewater Plant expansion (Class A reclaimed water)	30.0	1999-2008
Water Plant Upgrade (ozone, pumps, pipes and tanks)	14.0	1998-1999

Consultant Team GM/CM Experience

		HDR		BROWN AND CALDWELL	
PROJECT	**TYPE**	Pierre Kwan, PE	Dan Becker, CCM, PMP	Pat Tangora, PE	Robert Bingham, PE
Everett WPCF Phases A and C Expansion	GC/CM			✓	✓
SPU Landsburg Diversion	GC/CM			✓	✓
SPU Windermere, Genesee and North Henderson Combined Sewer Control Projects	GC/CM			✓	✓
Salt River Pima Maricopa Indian Community Groundwater Treatment	CMAR	✓			
Pierce County Chambers Creek WWTP	GC/CM			✓	✓
Sunshine Coast Regional District South Pender Harbour Water Treatment Plant	CMAR	✓			
King County Brightwater WWTP	GC/CM & DBB			✓	✓
LOTT – Bud Inlet WWTP	GC/CM		✓		
Newport WTP	CM/GC		✓		
Newberg WWTP	CM/GC		✓		
Bellingham Post Point WWTP	GC/CM				✓
Tacoma Green River WTP	GC/CM				✓
North Las Vegas Water Reclamation Facility	CMAR			✓	

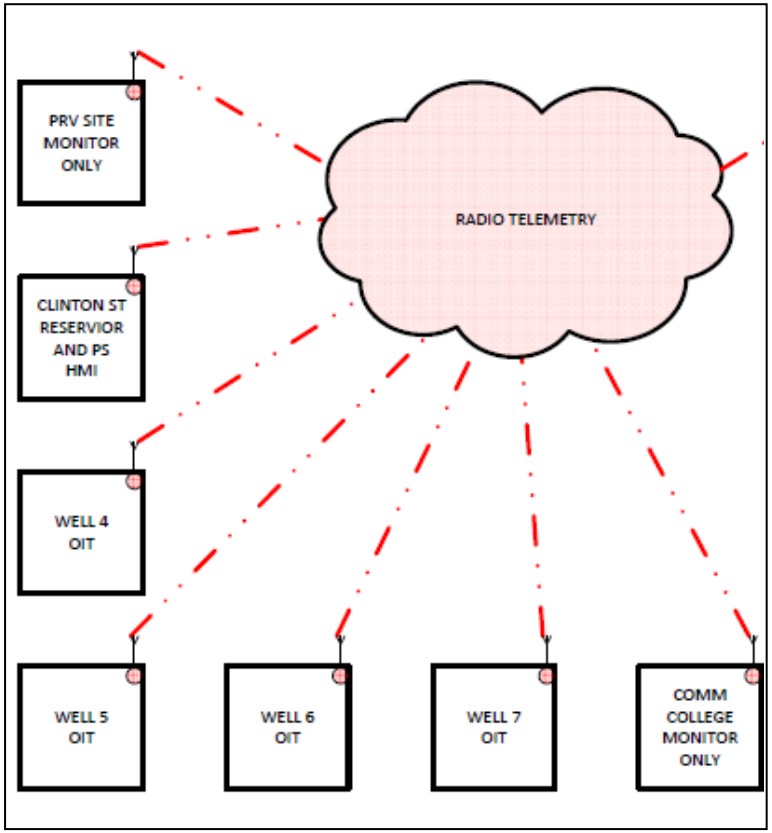
Project Meets RCW 39.10 ✓

Satisfies more than one RCW 39.10.340 criteria

1) Implementation involves complex scheduling, phasing, or coordination
2) Involves construction at an occupied facility that must continue to operate during construction
3) GC/CM involvement during design is critical to project success
4) Project encompasses a complex or technical work environment

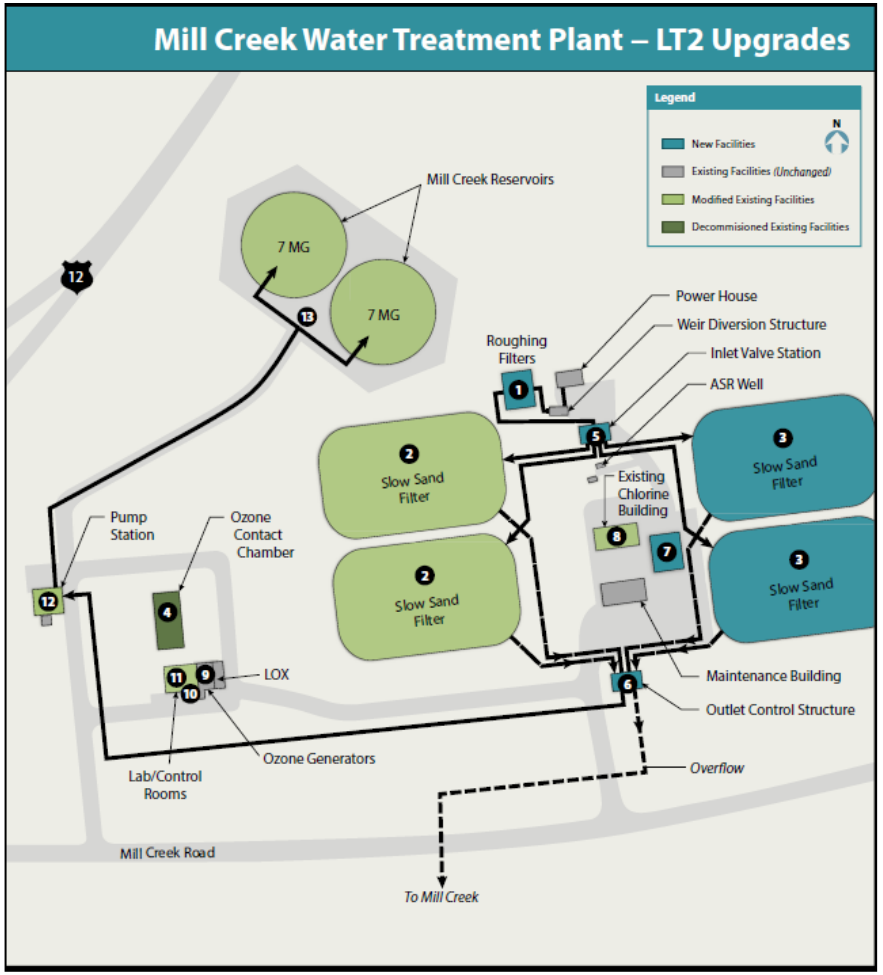
Complex scheduling, phasing and coordination

- Replace all existing telemetry without disrupting operation
- Construct new sand filters in existing sedimentation basins
- Coordinate purchase, delivery and installation of filter construction materials
- Replace existing ozone contact chamber with ozone contact pipeline



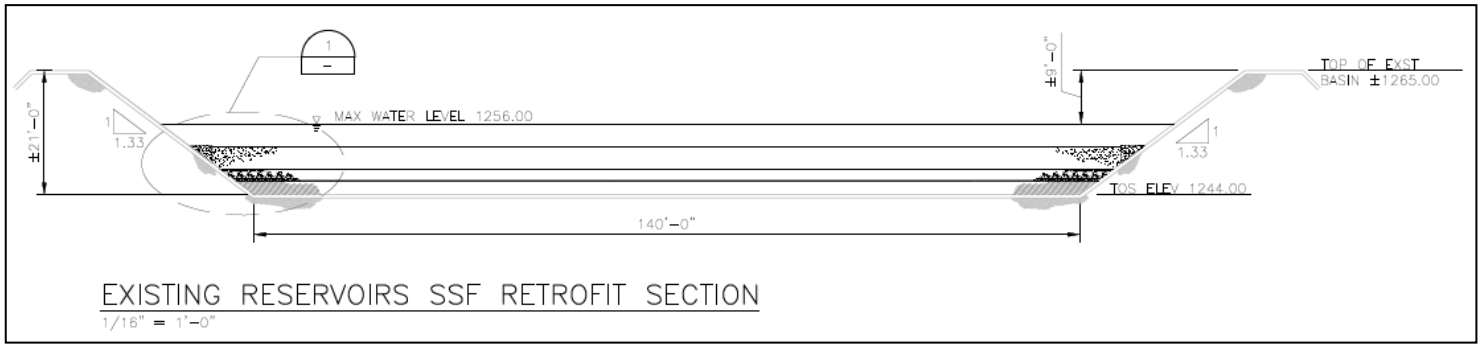
Construction at an occupied facility that must continue to operate during construction

- Keeping WTP online and in compliance with drinking water regulations
- Retrofitting existing sedimentation basins while maintaining continuous operation
- Maintaining site access throughout the construction period



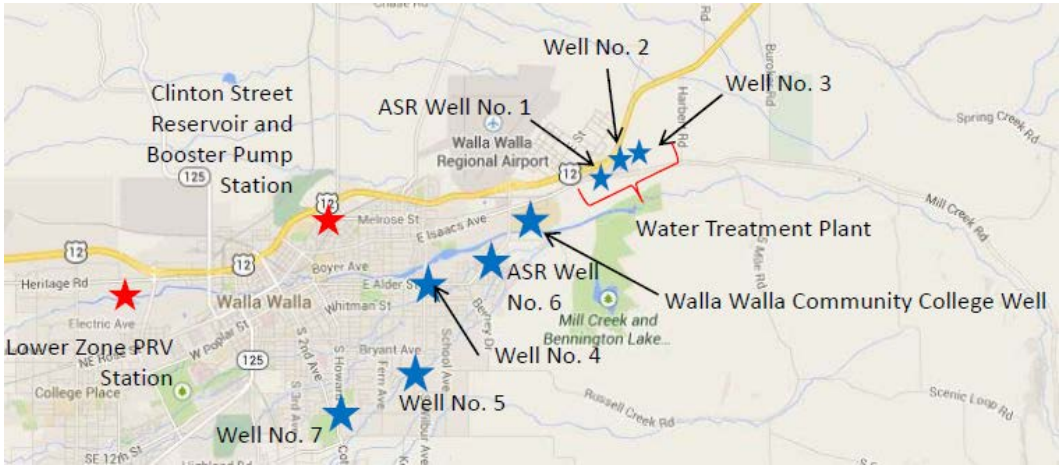
GC/CM involvement during design is critical to project success

- Input on alternative phasing scenarios
- Input on temporary shutdowns, rerouting of plant flows that do not jeopardize plant operations
- Participation in construction scheduling, cost estimating, cost control, constructability and value engineering



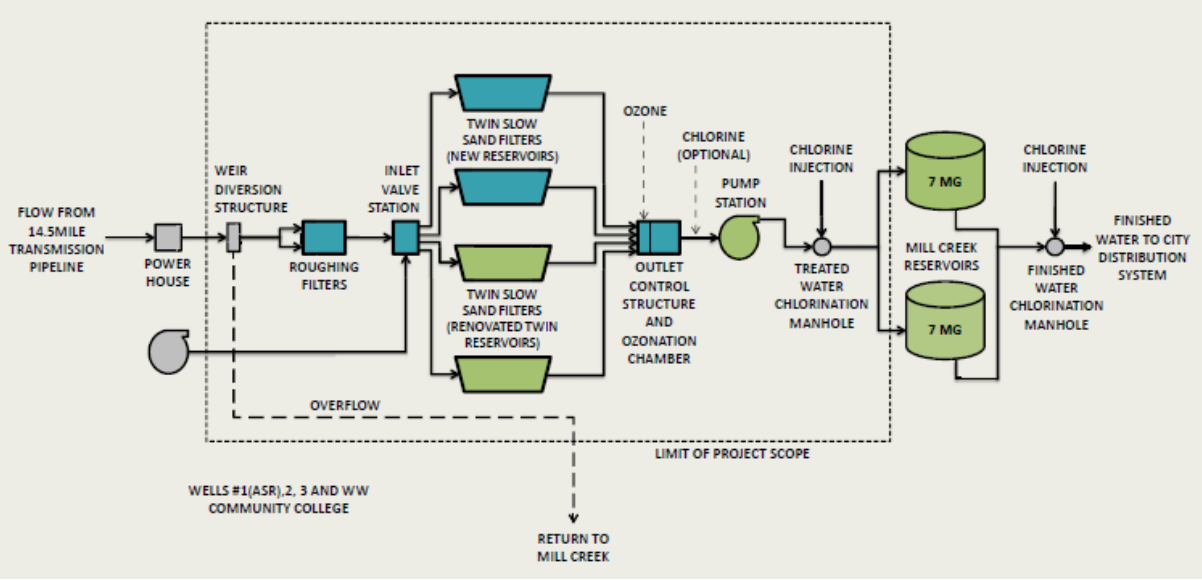
Complex and Technical Work Environment

- Essential public facility with critical public health requirements
- Complex telemetry and monitoring systems
- Seasonal fluctuations in raw water quality
- Interface of WTP with other parts of the water supply system



Summary – Why GC/CM?

- Meets requirements of RCW 39.10
- Best option to meet Walla Walla's needs
- Qualified project team experienced in public works construction and GC/CM



Further Questions?