



Revision/Revision	Description/Description	Date/Date
3	REVISED ISSUED FOR TENDER	2016/08/13
2	95% COMPLETE - ISSUED FOR REVIEW	2016/05/03
1	65% COMPLETE - ISSUED FOR REVIEW	2016/01/22

Client/Client: PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Project Title/Titre du projet: GLACIER NATIONAL PARK WATER SOURCE CONVERSION

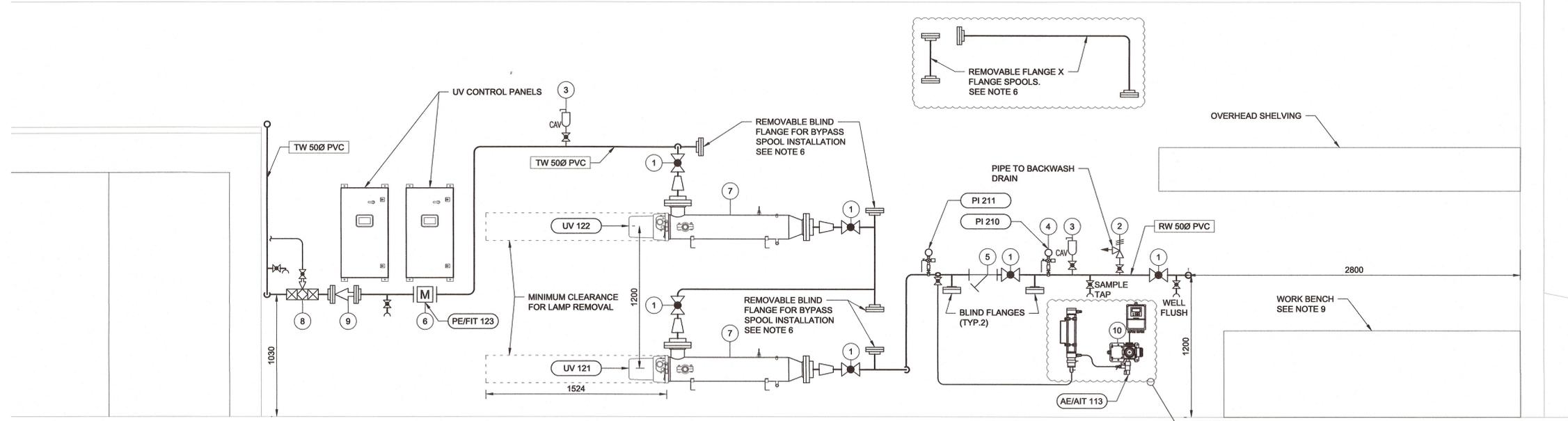
Consultant Signature Only: OPUS CONSULTANTS LTD.  
Designed by/Concept par:

Drawn by/Dessiné par:

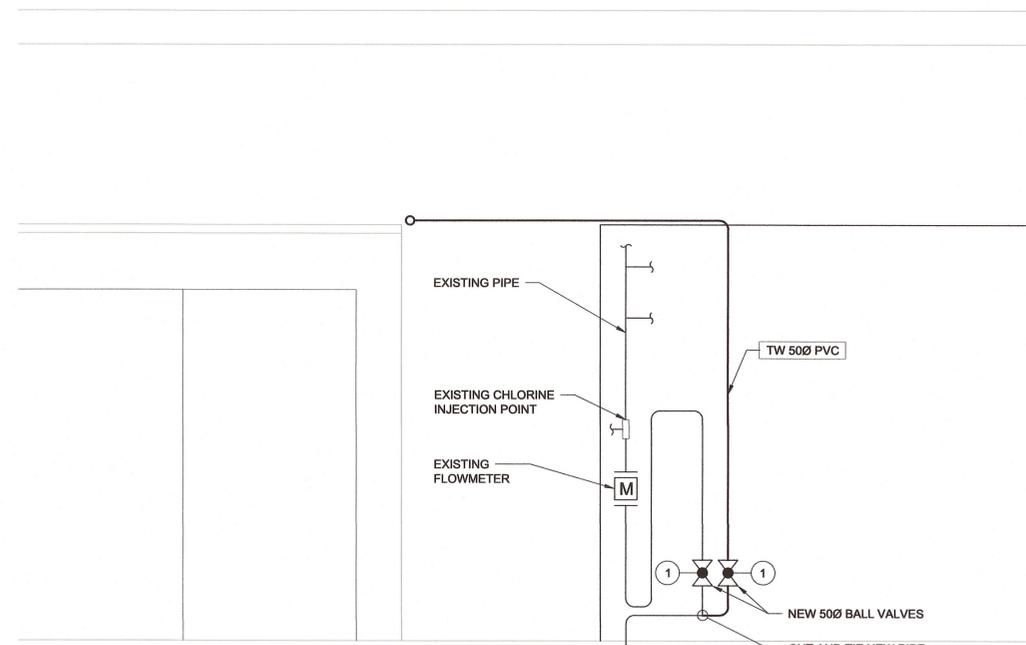
PWGSC Project Manager/Administrateur de Projets: TOM DUNPHY  
Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architectural et de génie: TPSC PREETIPAL PAUL

Drawing Title/Titre du dessin: NEW WATER TREATMENT SYSTEM MECHANICAL SECTION

Project No./No. du projet: R.076550.001	Sheet/Fauille: M101	Revision no./La Révision no.: 3
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SECTION 1  
Scale: 1:20



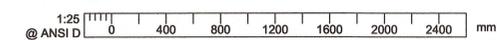
SECTION 2  
Scale: NTS

- NOTES:**
- ALL COMBINATION AIR VALVES AND PRESSURE RELIEF VALVE DRAINS TO BE PIPED TO BACKWASH DRAIN. ROUTE PIPING TO GO UNDER PIPE RAMP.
  - PIPE ANALYZER DRAIN TO BACKWASH DRAIN. ROUTE PIPING TO GO UNDER PIPE RAMP.
  - ISOLATION VALVES UPSTREAM OF UV REACTORS ARE TO BE THROTTLED TO PROVIDE BACKPRESSURE FOR TURBIDITY ANALYZER OPERATION.
  - NEW WATER SUPPLY LINE TO BE INSULATED AND HEAT TRACED TO INSIDE BUILDING LIMIT.
  - REFER TO SPECIFICATIONS FOR EQUIPMENT SUPPORT AND SEISMIC RESTRAINT REQUIREMENTS.
  - REMOVABLE FLANGE X FLANGE SPOOLS ARE TO BYPASS THE UV UNITS WHEN THEY ARE OUT OF SERVICE. SPOOLS ARE TO HAVE BLIND FLANGES FOR PROTECTION.
  - MINIMUM CLEARANCES ARE DETERMINED BY UV SYSTEM REQUIREMENTS.
  - ANALYZER ASSEMBLY TO BE INSTALLED AS PER MANUFACTURERS INSTRUCTIONS. MAY BE DIFFERENT THEN SHOWN ON DRAWING.
  - ADJUST WORKBENCH LENGTH AS REQUIRED TO PROVIDE SPACE FOR ELECTRICAL EQUIPMENT. SEE ELECTRICAL DRAWINGS. PAINT CUT ENDS OF WORK BENCH TO MATCH EXISTING.
  - NEW PRESSURE GAUGES TO BE INSTALLED IN THE SAME MANNER WITH THE SAME FITTINGS AND VALVES AS EXISTING PRESSURE GAUGES.

BILL OF MATERIALS		
ITEM	DESCRIPTION	QUANTITY
1	500 BALL VALVE	9
2	250 PRESSURE RELIEF VALVE	1
3	COMBINATION AIR VALVE	3
4	PRESSURE GAUGE ASSEMBLY	2
5	500 Y-TYPE STRAINER	1
6	500 MAGNETIC FLOWMETER	1
7	UV's	2

BILL OF MATERIALS		
ITEM	DESCRIPTION	QUANTITY
8	500 STATIC MIXER	1
9	500 WAFER CHECK VALVE	1
10	TURBIDITY ANALYZER	1
11	SODIUM HYPOCHLORITE DOSING PUMPS	1
12	CHLORINE EXHAUST FAN	1
13	EMERGENCY SHOWER	1
14	300x300mm LOUVRE	1

BILL OF MATERIALS		
ITEM	DESCRIPTION	QUANTITY
15	500 SHD 80 GROOVED x SOCKET COUPLING	1
16	HOT WATER TANK	2



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