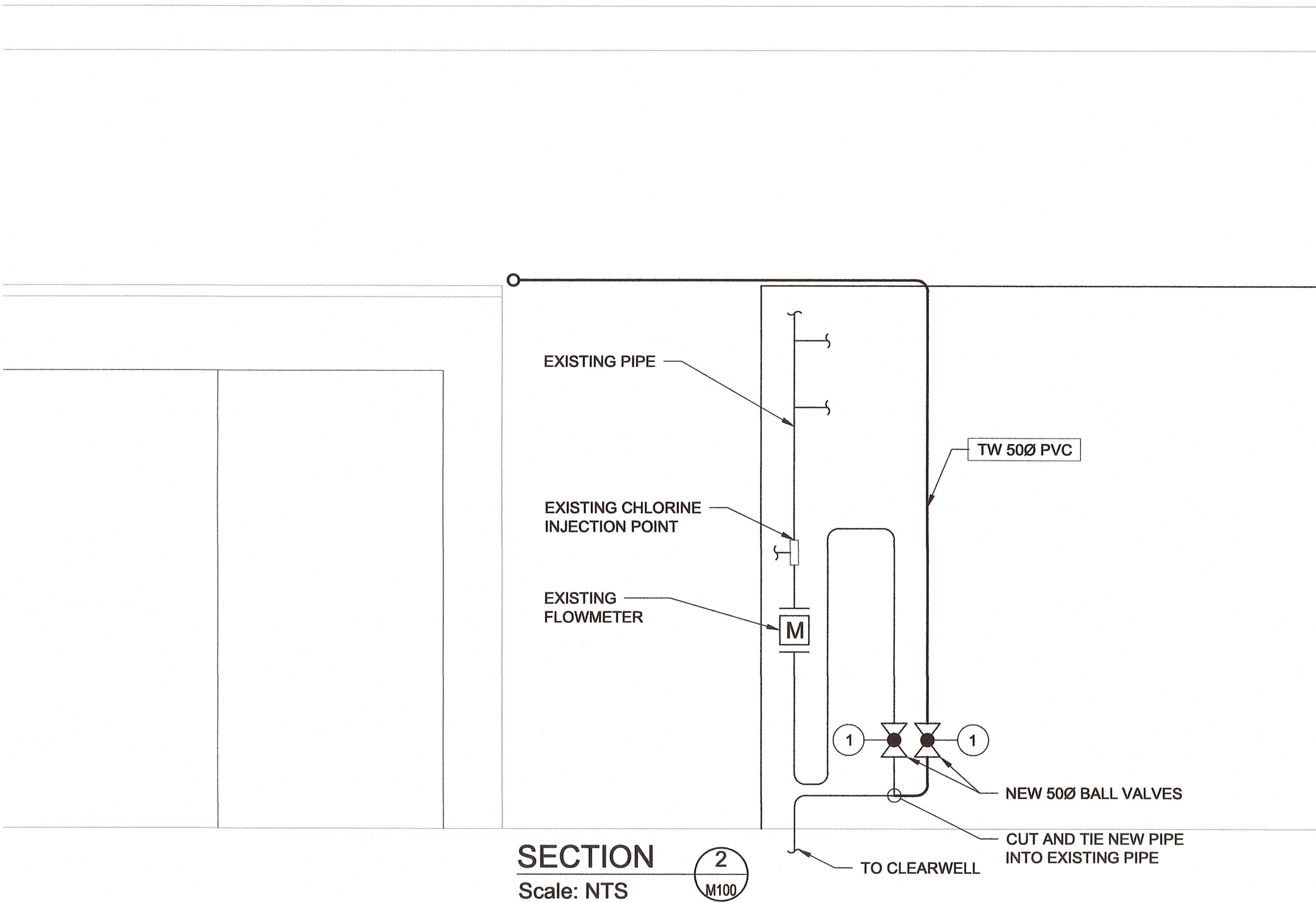
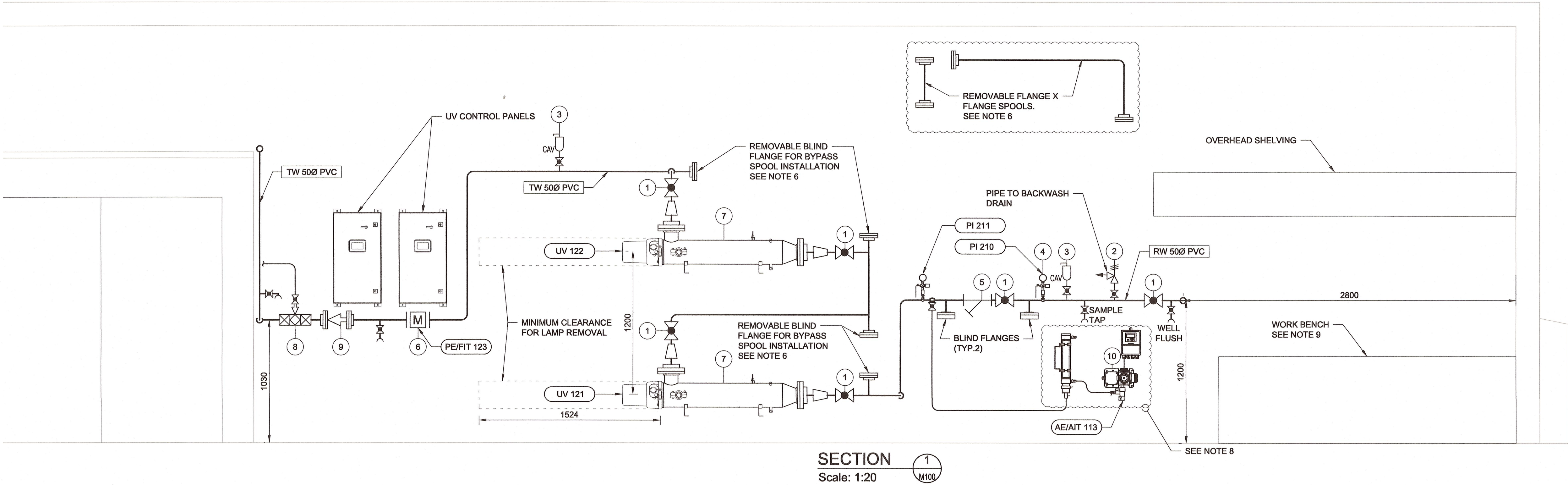


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NOTES:

1. ALL COMBINATION AIR VALVES AND PRESSURE RELIEF VALVE DRAINS TO BE PIPED TO BACKWASH DRAIN. ROUTE PIPING TO GO UNDER PIPE RAMP.
2. PIPE ANALYZER DRAIN TO BACKWASH DRAIN. ROUTE PIPING TO GO UNDER PIPE RAMP.
3. ISOLATION VALVES UPSTREAM OF UV REACTORS ARE TO BE THROTTLED TO PROVIDE BACKPRESSURE FOR TURBIDITY ANALYZER OPERATION.
4. NEW WATER SUPPLY LINE TO BE INSULATED AND HEAT TRACED TO INSIDE BUILDING LIMIT.
5. REFER TO SPECIFICATIONS FOR EQUIPMENT SUPPORT AND SEISMIC RESTRAINT REQUIREMENTS.
6. 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.
7. MINIMUM CLEARANCES ARE DETERMINED BY UV SYSTEM REQUIREMENTS.
8. ANALYZER ASSEMBLY TO BE INSTALLED AS PER MANUFACTURES INSTRUCTIONS. MAY BE DIFFERENT THEN SHOWN ON DRAWING.
9. ADJUST WORKBENCH LENGTH AS REQUIRED TO PROVIDE SPACE FOR ELECTRICAL EQUIPMENT. SEE ELECTRICAL DRAWINGS. PAINT CUT ENDS OF WORK BENCH TO MATCH EXISTING.
10. 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

1:25
@ ANSI D
0 400 800 1200 1600 2000 2400 mm

0 10 20 30 40 50 60 70 80 90 100mm

Revision/	Description/Description	Date/Date
3	REVISED ISSUED FOR TENDER	2016/06/13
2	95% COMPLETE - ISSUED FOR REVIEW	2016/05/03
1	65% COMPLETE - ISSUED FOR REVIEW	2016/01/22

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/Dessine par

PWGSC Project Manager/Administrateur de Projets TPWSC

TOM DUNPHY

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPWSC
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