CITY OF IQALUIT
WATER TREATMENT PLANT

DRAWING LIST

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UPDATED SKETCHES

wsp

1600 BUFFALO PLACE
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CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
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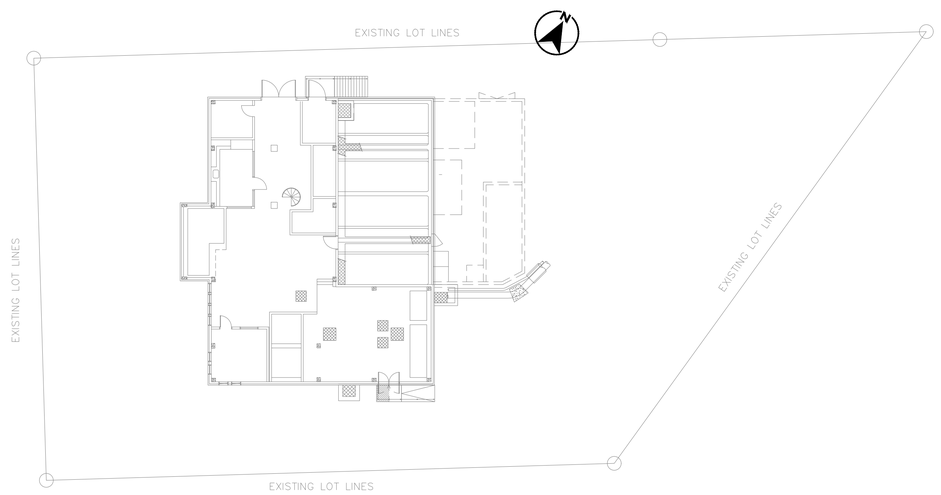
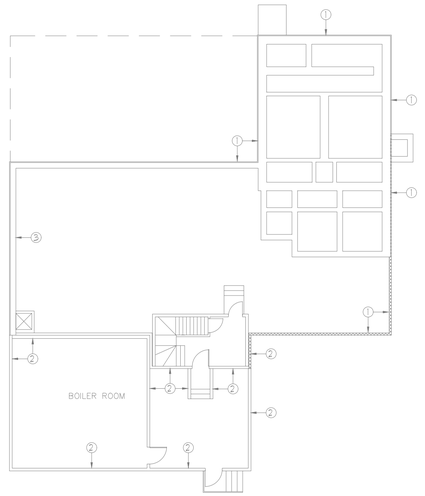
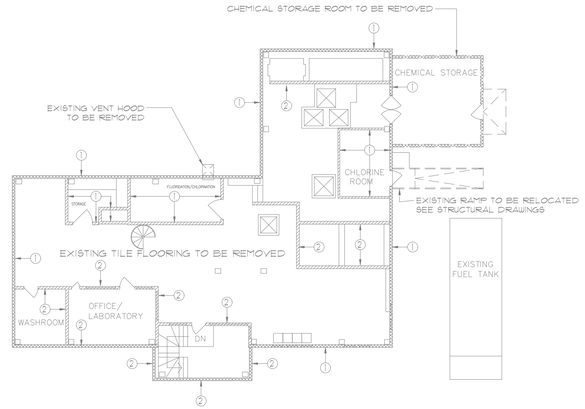
MAY 20, 2022
WSP NO. 211-12497-00



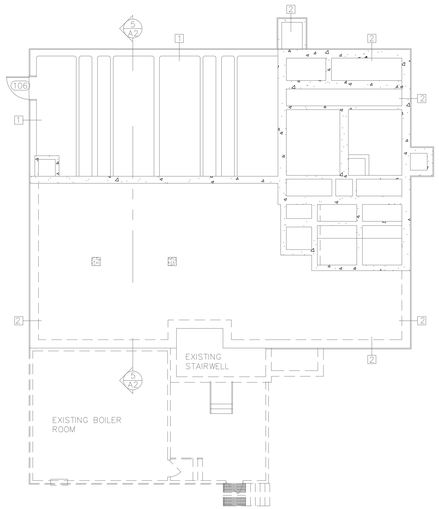
1 A-101 **SITEPLAN** 1:2000



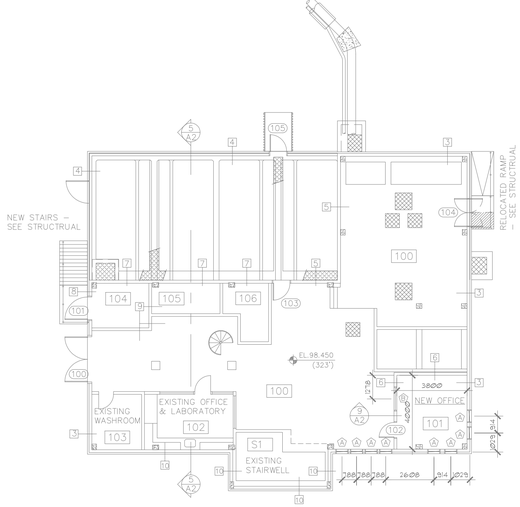


NOTES:
1. EXISTING CONSTRUCTION TO BE REMOVED.
2. EXISTING CONSTRUCTION TO REMAIN.
3. REMOVE EXTERIOR WALL CONSTRUCTION TO OUTSIDE FACE OF CONCRETE WALL. EXISTING CONCRETE WALL TO REMAIN.

2 A-101 **2003/2004 WTP UPDGRADES PROJECT - DEMOLITION PLANS** 1:150



3 A-101 **FLOOR PLAN - PUMPS LEVEL** 1:150



4 A-101 **FLOOR PLAN - FILTER LEVEL** 1:150

WALL TYPES

1 15.9mm EXTERIOR GRADE PLYWOOD (PAINTED)(EXTEND TO FINIHSED GRADE)
38mm RIGID INSULATION B/T 38mm HORZ. WOOD STRAPPING 400mm O.C. (EXTEND TO FINISHED GRADE)
NEW CONCRETE WALL – SEE STRUCTURAL

2 15.9mm EXTERIOR GRADE PLYWOOD (PAINTED)(EXTEND TO FINISHED GRADE)
38mm RIGID INSULATION B/T 38mm HORZ. WOOD STRAPPING 400mm O.C.(EXTEND TO FINISHED GRADE)
EXISTING CONCRETE WALL

3 PREFINISHED VERT. METAL SIDING
WEATHER BARRIER
38x64mm HORZ. WOOD STRAPPING @ 609mm O.C. W/ 38mm RIGID INSULATION IN BETWEEN
12.7mm PLYWOOD SHEATHING
38x140mm WOOD STUDS @ 600mm O.C. FILL STUD CAVITY W/ BATT INSULATION
9.5mm PLYWOOD SHEATHING
0.25mm POLY VAPOUR BARRIER
12.7mm GWB (PAINTED)

4 PREFINISHED VERT. METAL SIDING
WEATHER BARRIER
38x64mm HORZ. WOOD STRAPPING @ 609mm O.C. W/ 38mm RIGID INSULATION IN BETWEEN
12.7mm PLYWOOD SHEATHING
38x140mm WOOD STUDS @ 600mm O.C. FILL STUD CAVITY W/ BATT INSULATION
9.5mm PLYWOOD SHEATHING
0.25mm POLY VAPOUR BARRIER
12.7mm MOISTURE RESISTANT GWB (PAINTED)

5 12.7mm MOISTURE RESISTANT GWB (FILTER SIDE)
38x140mm WOOD STUDS @ 610mm O.C.
12.7mm GWB

6 12.7mm GWB
38x89mm WOOD STUDS @ 610mm O.C.
12.7mm GWB

7 12.7mm MOISTURE RESISTANT GWB (FILTER ROOM SIDE)
38x140mm WOOD STUDS @ 610mm O.C.
12.7mm PLYWOOD (PAINTED)

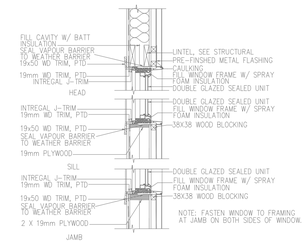
8 PREFINISHED VERT. METAL SIDING
WEATHER BARRIER
38x64mm HORZ. WOOD STRAPPING @ 609mm O.C. W/ 38mm RIGID INSULATION IN BETWEEN
12.7mm PLYWOOD SHEATHING
38x140mm WOOD STUDS @ 600mm O.C.
9.5mm PLYWOOD SHEATHING
0.25mm POLY VAPOUR BARRIER
12.7mm PLYWOOD (PAINTED)

9 12.7mm MOISTURE RESISTANT GWB (PTD)
0.25mm SEALED POLY VAPOUR BARRIER
9.5mm PLYWOOD BACKING
38x89 WOOD STUDS @ 609mm O.C.
9.5mm PLYWOOD SIDING
0.25mm SEALED POLY VAPOUR BARRIER
12.7mm MOISTURE RESISTANT GWB (PTD)

10 EXISTING WALL CONSTRUCTION
38x64 HORZ. WOOD STRAPPING @ 609mm O.C. W/ 38mm RIGID INSULATION BETWEEN
WEATHER BARRIER
NEW PREFINISHED VERTICAL METAL SIDING

NOTES:
PAINT ALL EXISTING INTERIOR WALLS, CEILINGS, DOORS AND FRAMES AND CONCRETE FLOORS.

NOTE:
VAPOUR BARRIER MUST BE CAULKED AT ALL SEAMS AND JOINTS AS WELL AS AT EACH STAPLE INTO THE PLYWOOD BACKING TO MAKE WATER TIGHT.



5 A-101 **WINDOW DETAILS** 1:20

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: Iqaluit — CITY OF IQALUIT
CLIENT REF. #:

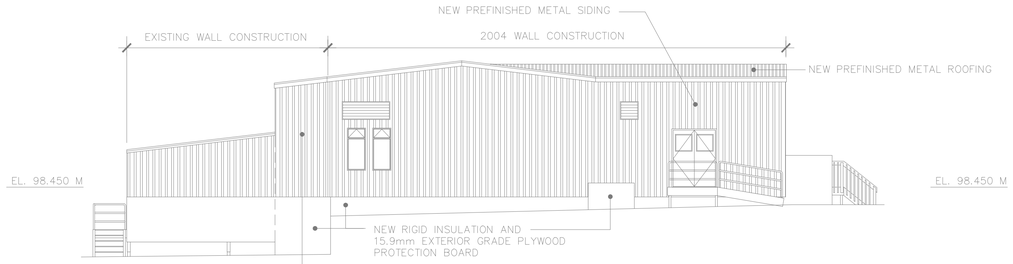
PROJECT: IQALUIT WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
WWW.WSP.COM

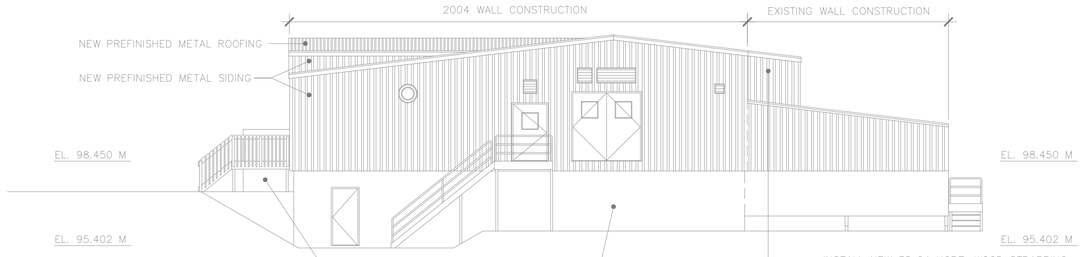
ORIGINAL SCALE: AS NOTED

TITLE: SITE PLAN & FLOOR PLANS
SHEET NUMBER: A-101

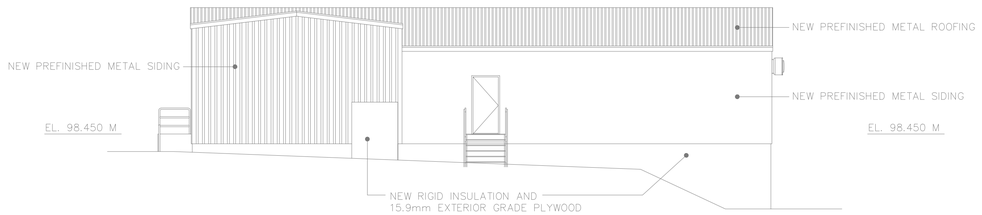
DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: ARCHITECTURAL
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



1 A-301 RIGHT ELEVATION
1:100

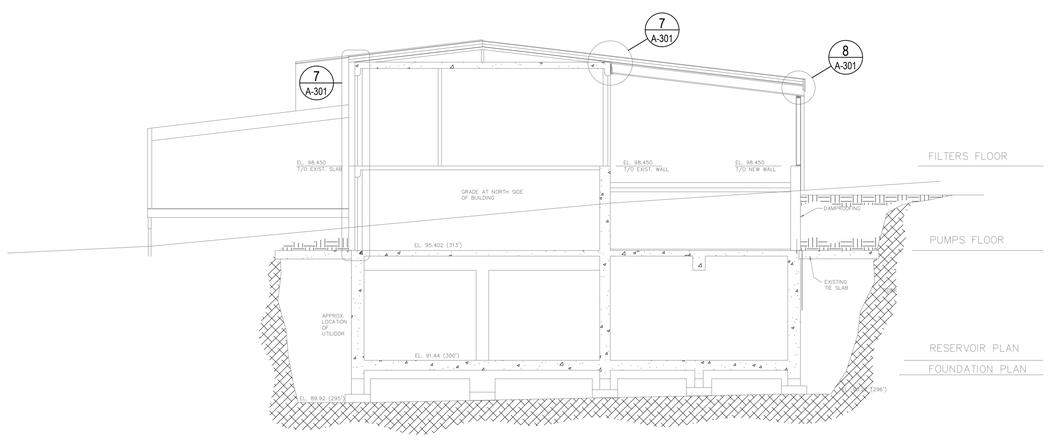


2 A-301 LEFT ELEVATION
1:100

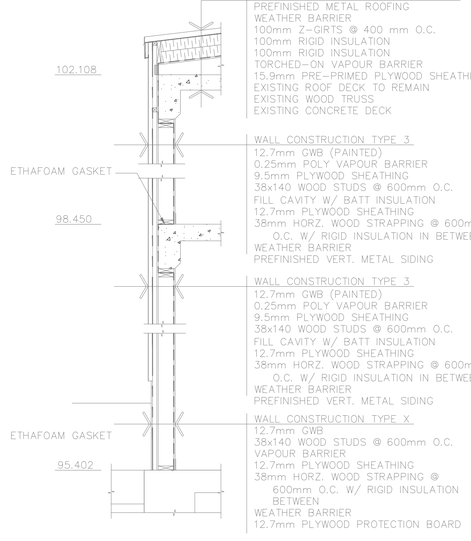


3 A-301 REAR ELEVATION
1:100

4 A-301 FRONT ELEVATION
1:100

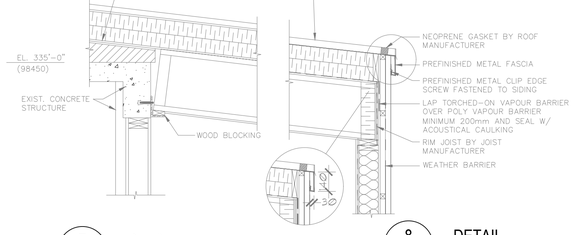


5 A-301 BUILDING SECTION
1:100



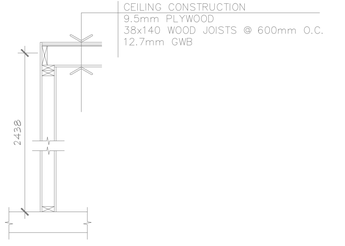
6 A-301 WALL SECTION
1:25

NOTE:
ENSURE ALL JOINTS AND SEAMS
OF VAPOR BARRIER ARE CAULKED
TO ENSURE WATER TIGHTNESS.
ALL PENETRATIONS OF VAPOR BARRIER
INCLUDING HOLES CAUSED BY STAPLES
SHOULD ALSO BE CAULKED.



7 A-301 DETAIL
1:20

8 A-301 DETAIL
1:20



9 A-301 DETAIL
1:20

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

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CLIENT: ᐃᖃᓗᐃᑦ Iqaluit CITY OF IQALUIT
CLIENT REF. #:

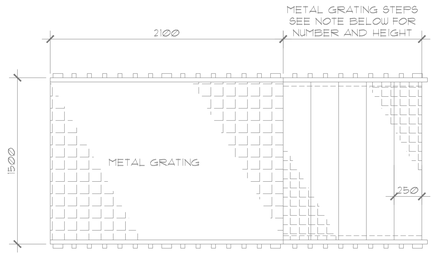
PROJECT: IQALUIT WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

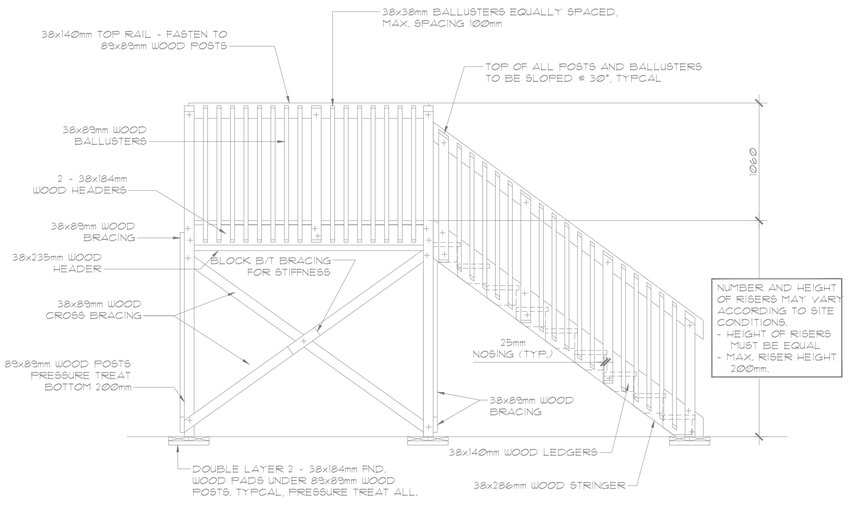
wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX: 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

TITLE: SECTION AND DETAILS
SHEET NUMBER: A-301

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: ARCHITECTURAL
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -





1 / A-501 EXTERIOR WOOD STAIRS
1:25

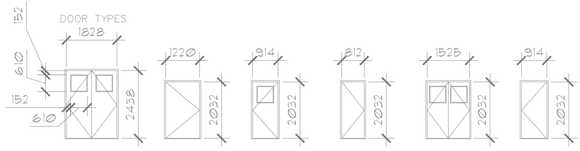
ROOM FINISH SCHEDULE

		FLOOR	BASE	WALLS		CEILING			REMARKS
ROOM NAME	RM.NO.	MATERIAL	MATERIAL	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
OPEN FLOOR AREA	100	NSRF	VINYL COVE	GYPSUM	PTD	EXISTING	–	EXISTING	PAINT EXISTING WALLS & CEILING TO MATCH NEW
NEW OFFICE	101	RF	VINYL COVE	GYPSUM	PTD	GYPSUM	PTD	2438	
EXISTING OFFICE & LAB.	102	NSRF	VINYL COVE	GYPSUM	PTD	EXISTING	–	EXISTING	PAINT EXISTING WALLS & CEILING TO MATCH NEW
EXISTING WASHROOM	103	NSRF	VINYL COVE	GYPSUM	PTD	EXISTING	–	EXISTING	PAINT EXISTING WALLS & CEILING TO MATCH NEW
NEW CHLORINE ROOM	104	NSRF	VINYL COVE	PLYWOOD/CONCRETE	PTD	EXISTING	–	EXISTING	PAINT EXISTING WALLS & CEILING TO MATCH NEW
NEW CHEMICAL ROOM	105	RF	VINYL COVE	PLYWOOD	PTD	EXISTING	–	EXISTING	PAINT EXISTING WALLS & CEILING TO MATCH NEW
NEW CHEMICAL ROOM	106	RF	VINYL COVE	PLYWOOD	PTD	EXISTING	–	EXISTING	PAINT EXISTING WALLS & CEILING TO MATCH NEW
NEW FILTER AREA	107	CONC. PTD	VINYL COVE	MRGWB	PTD	MRGWB	PTD	VARIES	
EXISTING PUMP FLOOR AREA	108	SEE NOTE 1	VINYL COVE	SEE NOTE 1	PTD	EXISTING	PTD	EXISTING	PAINT EXISTING WALLS & CEILING TO MATCH NEW

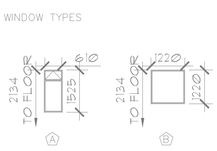
DOOR SCHEDULE

DOOR			DOOR SIZE							FRAME			FIRE RAT'S		HARD WARE
ROOM NAME	RM.NO.	MARK	WIDTH	HEIGHT	LITE	CONST.	FACE MAT.	FINISH	TYPE NUMBER	GLASS	MAT.	FINISH	TYPE NUMBER	LABLE	REMARKS	GROUP
EXTERIOR/OPEN FLOOR AREA	–––	100	2440	2438	2	HMI	M	PTD	1	GWG	HMI	PTD	1		6mm TEMPERED GLASS	
EXTERIOR/CHLORINE ROOM	–––	101	1220	2032	1	HMI	M	PTD	2	GWG	HMI	PTD	2			
NEW OFFICE	101	102	812	2032	1	SCW	M	S&V	3		HM	PTD	3		6mm TEMPERED GLASS	
OPEN FLOOR AREA/FILTER AREA	100	103	914	2032	1	HM	M	PTD	4	GWG	HM	PTD	4			
EXTERIOR/OPEN FLOOR AREA	–––	104	1525	2032	2	HMI	M	PTD	5	GWG	HMI	PTD	5		6mm TEMPERED GLASS	
EXTERIOR	–––	105	914	2032	1	HMI	M	PTD	6	–	HMI	PTD	6			
EXTERIOR	–––	106	914	2032	1	HMI	M	PTD	6	–	HMI	PTD	6			

NOTES:
1. PATCH AND REPAIR FLOOR TO RECEIVE EPOXY PAINT. PATCH AND REPAIR CONCRETE WALLS TO RECEIVE PAINT.



WINDOW IS TYPICAL FOR
EACH DOOR TYPE



LIST OF FINISHES:

STEEL DOORS AND FRAMES: TO MATCH SICO 4145–63

WALLS AND CEILINGS: TO MATCH SICO 4151–11

EXTERIOR GRADE PLYWOOD: TO MATCH SICO 4151–11

FLOORING:

RESLIENT FLOORING: FORBO MARMOLEUM REAL 3160

NON–SLIP RESILIENT FLOORING: ALTRO DESIGNER SERIES DESERT D25522

RESILEINT BASE: JOHNSONITE #85 BURGENDY

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: ᐃᖃᓗᐃᑦ Iqaluit CITY OF IQALUIT
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CANADA R3T 6B8
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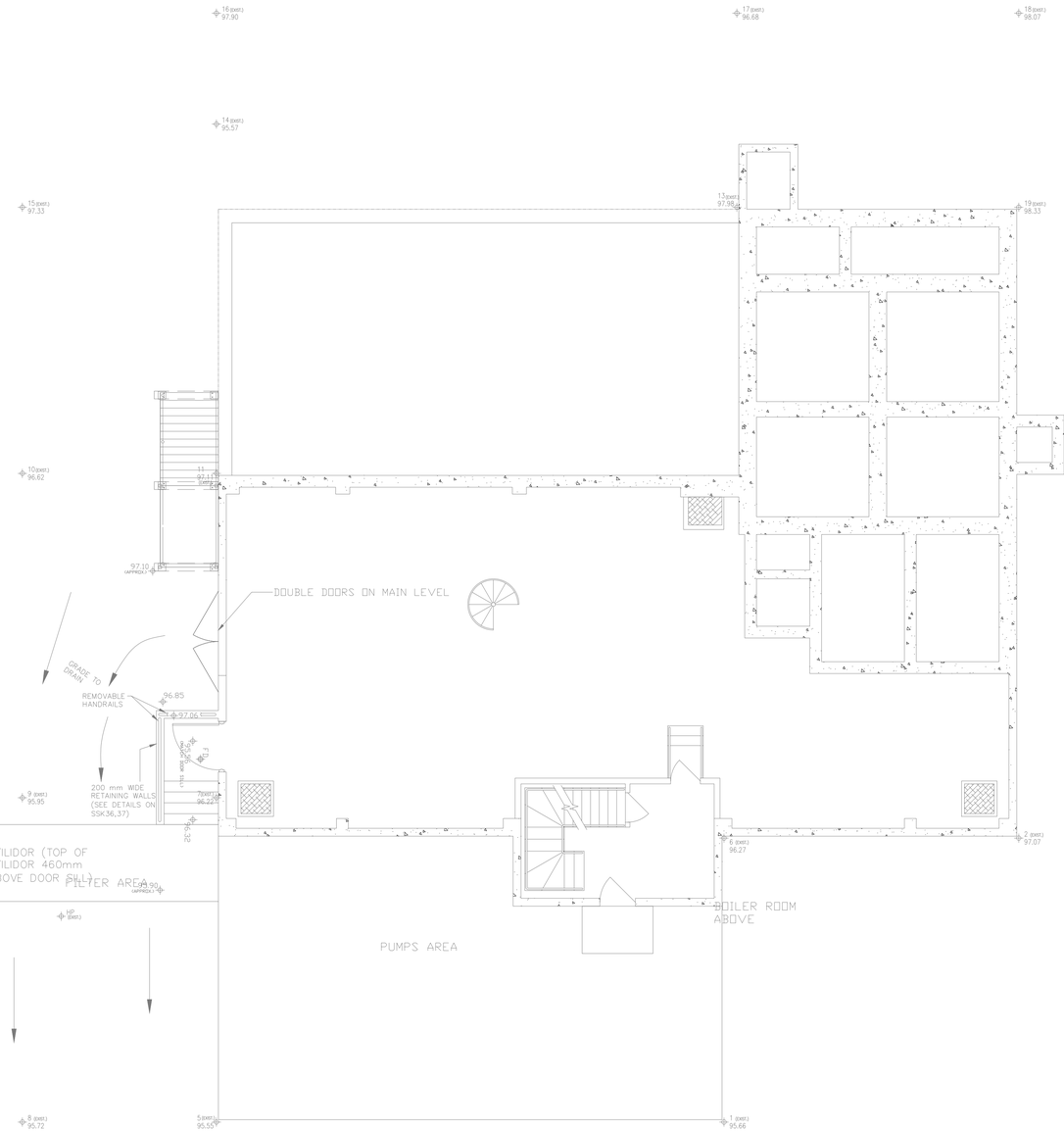
ORIGINAL SCALE: AS NOTED

TITLE: ROOM & DOOR SCHEDULES

SHEET NUMBER: A-501

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: ARCHITECTURAL
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



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REFER TO EARTH TECH (CANADA) INC. IQALUIT WATER TREATMENT PLANT DRAWINGS FOR CITY OF IQALUIT CONTRACT NO. 55524 FOR DETAILS DESCRIBING MODIFICATIONS TO EXISTING STRUCTURE AND OTHER UPGRADES.

NOTES:
1. LOCATION OF UNDERGROUND STRUCTURES AS SHOWN IS BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT OF ANY ERROR OR OMISSION IN THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE DRAWING.
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IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: CITY OF IQALUIT

CLIENT REF. #:

PROJECT: IQALUIT WATER TREATMENT PLANT

PROJECT NO: 211-12497-00

DATE: 2021/11/23

1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
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ORIGINAL SCALE: 1:30

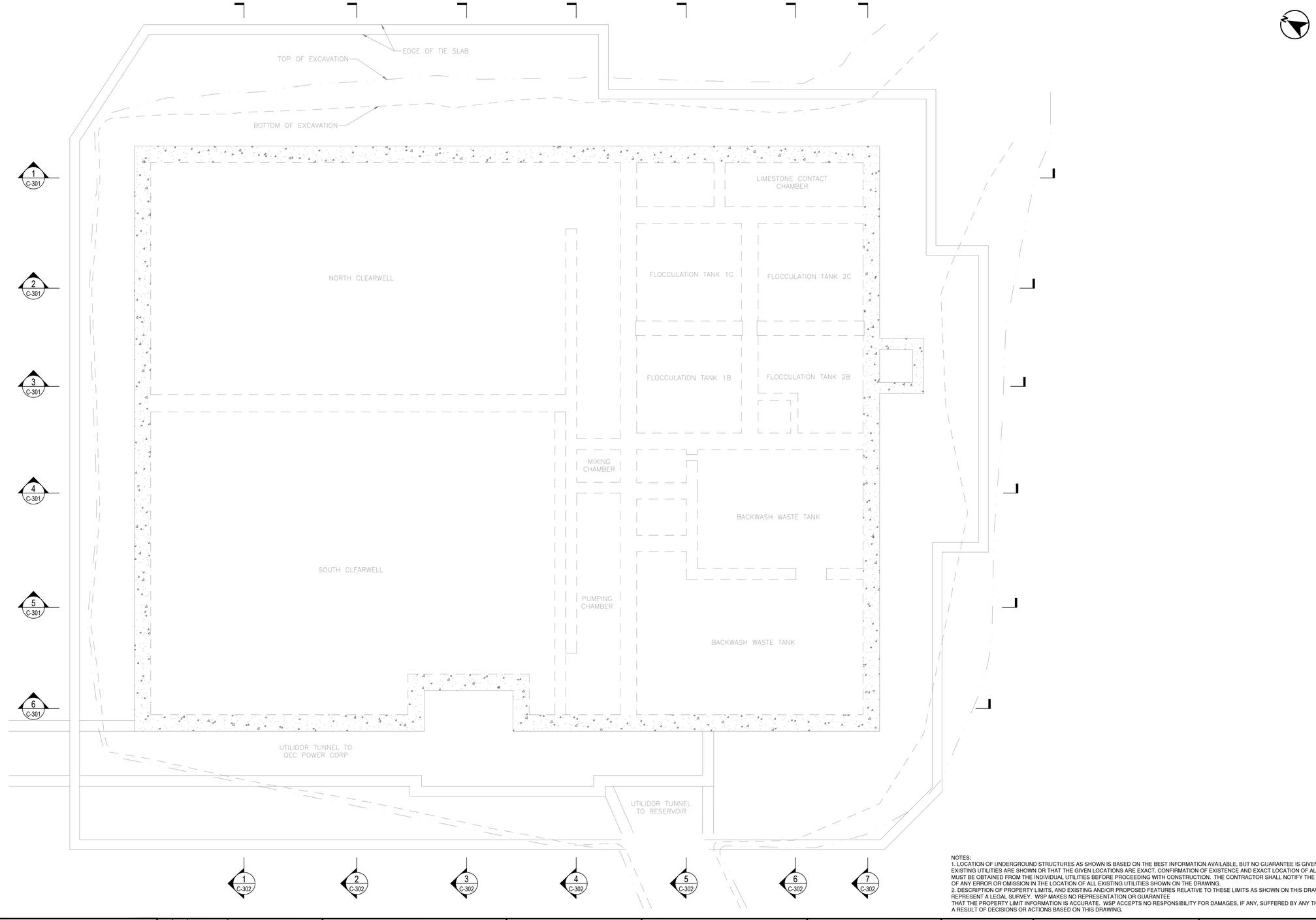
TITLE: SITE GRADING SHOWING PUMPS FLOOR

SHEET NUMBER: C-101

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: CIVIL

ISSUE: UPDATED SKETCHES 2022/05/20

REV #: -



NOTES:
1. LOCATION OF UNDERGROUND STRUCTURES AS SHOWN IS BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT OF ANY ERROR OR OMISSION IN THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE DRAWING.
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IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: CITY OF IQALUIT

CLIENT REF. #:

PROJECT: IQALUIT WATER TREATMENT PLANT

PROJECT NO: 211-12497-00

DATE: 2021/11/23

1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

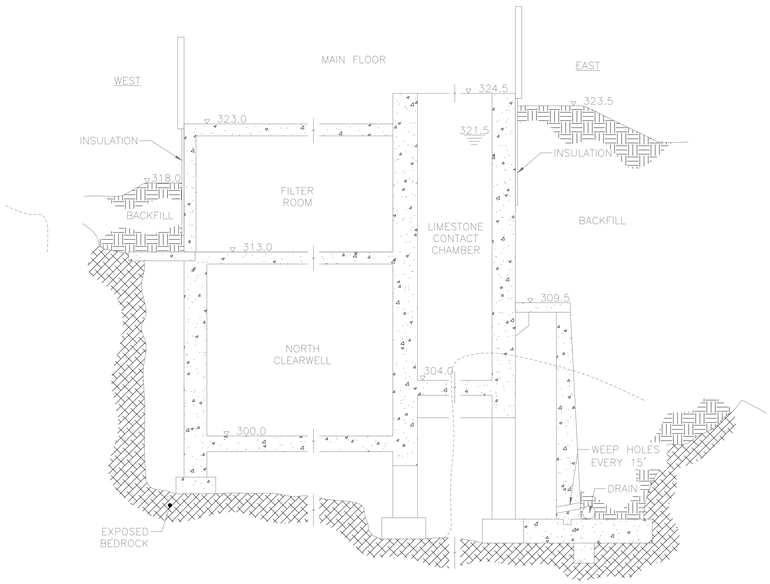
TITLE: WATER TREATMENT PLANT AND SITE PLAN

SHEET NUMBER: C-102

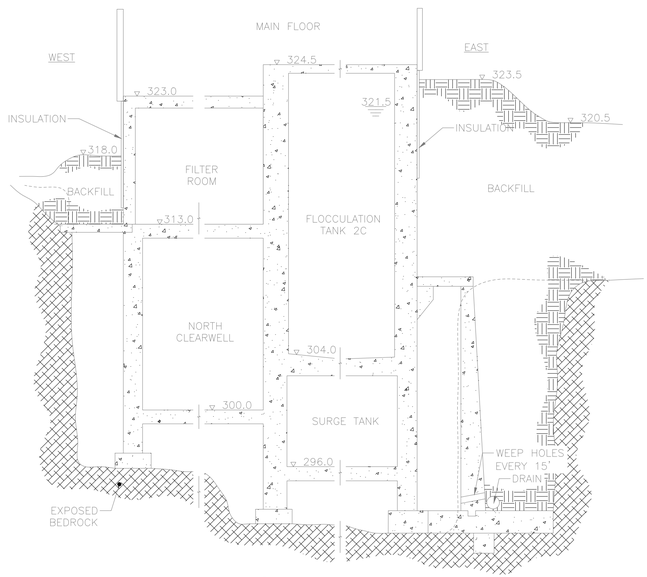
DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: CIVIL

ISSUE: UPDATED SKETCHES 2022/05/20

REV #: -



1 C-301 SECTION 1 (EAST-WEST)
N.T.S.



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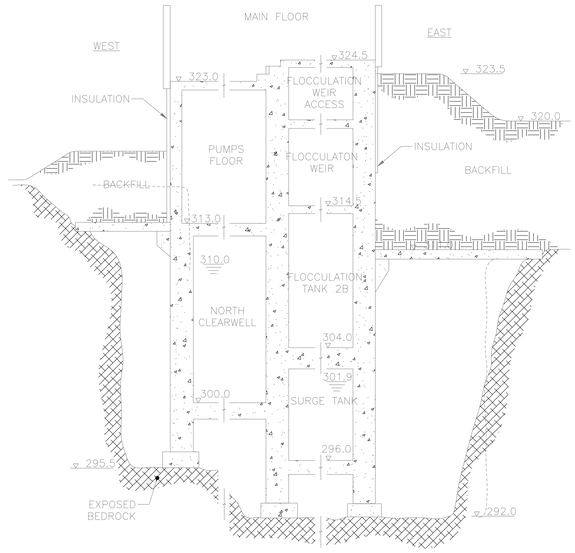

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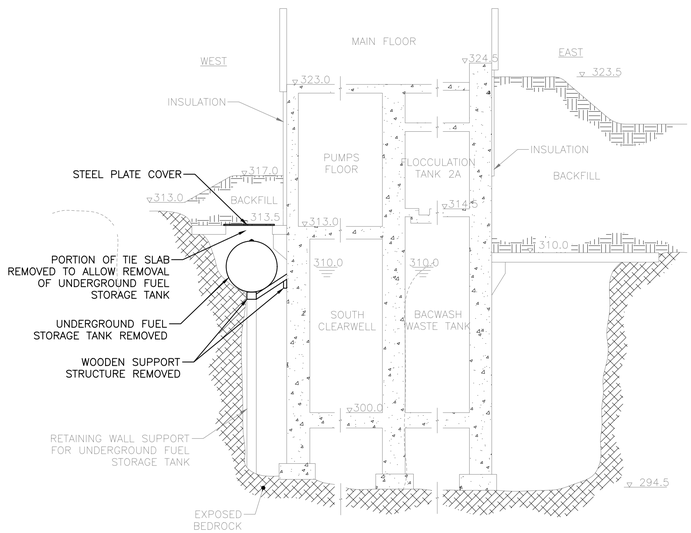

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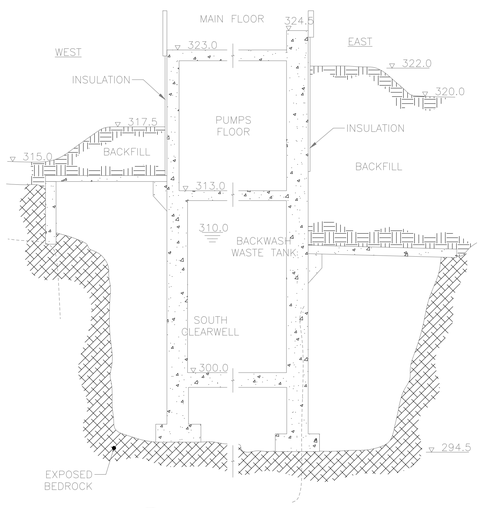

5 C-301 SECTION 5 (EAST-WEST)
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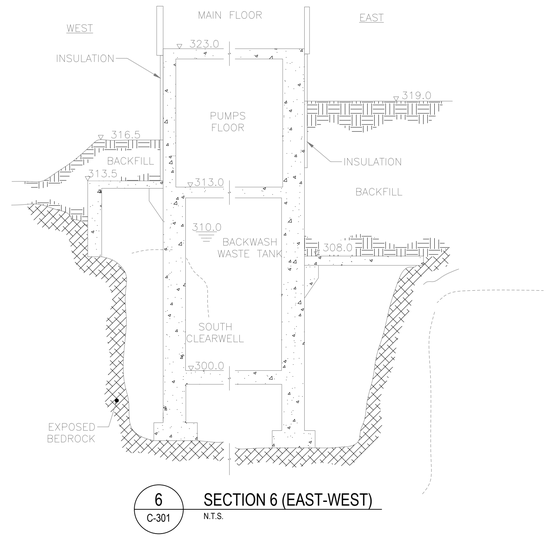

6 C-301 SECTION 6 (EAST-WEST)
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REFER TO EARTH TECH (CANADA) INC. IQALUIT WATER TREATMENT PLANT DRAWINGS FOR CITY OF IQALUIT CONTRACT NO. 55524 FOR DETAILS DESCRIBING MODIFICATIONS TO EXISTING STRUCTURE AND OTHER UPGRADES.

NOTES:
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SEAL:

PERMIT TO PRACTICE
WSP Canada Inc.
Signature [signature] #L4060
Date May 20, 2022
PERMIT NUMBER: P407
NT/NU Association of Professional Engineers and Geoscientists

ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS NT/NU
J. MACDONALD
LICENSEE
MAY 20, 2022

CLIENT: ᐃᖃᓗᐃᑦ Iqaluit
CITY OF IQALUIT
CLIENT REF. #:

PROJECT:
IQALUIT
WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX: 204-474-2864
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ORIGINAL SCALE: AS NOTED

TITLE: EAST-WEST SECTIONS

SHEET NUMBER: C-301

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
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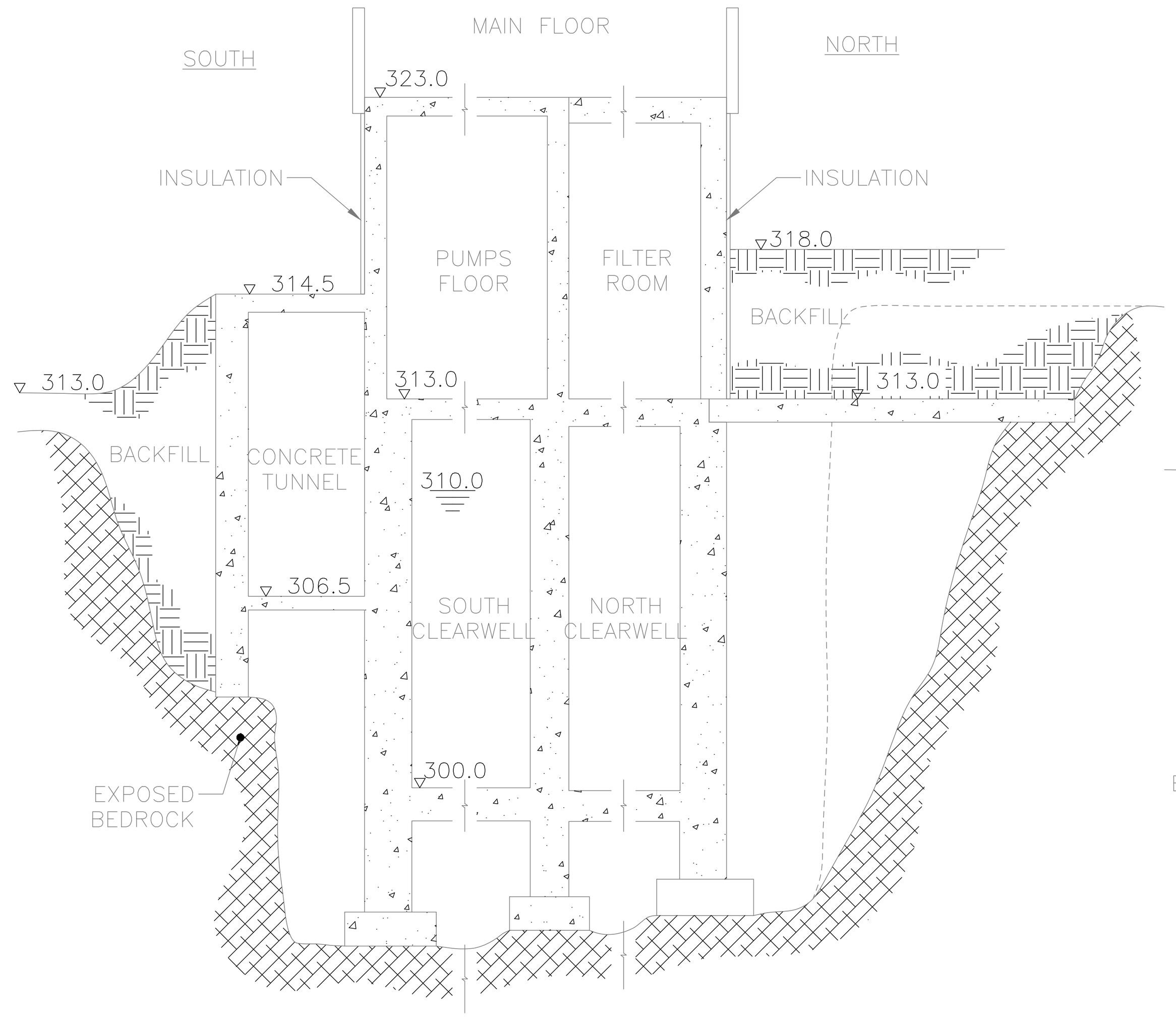
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



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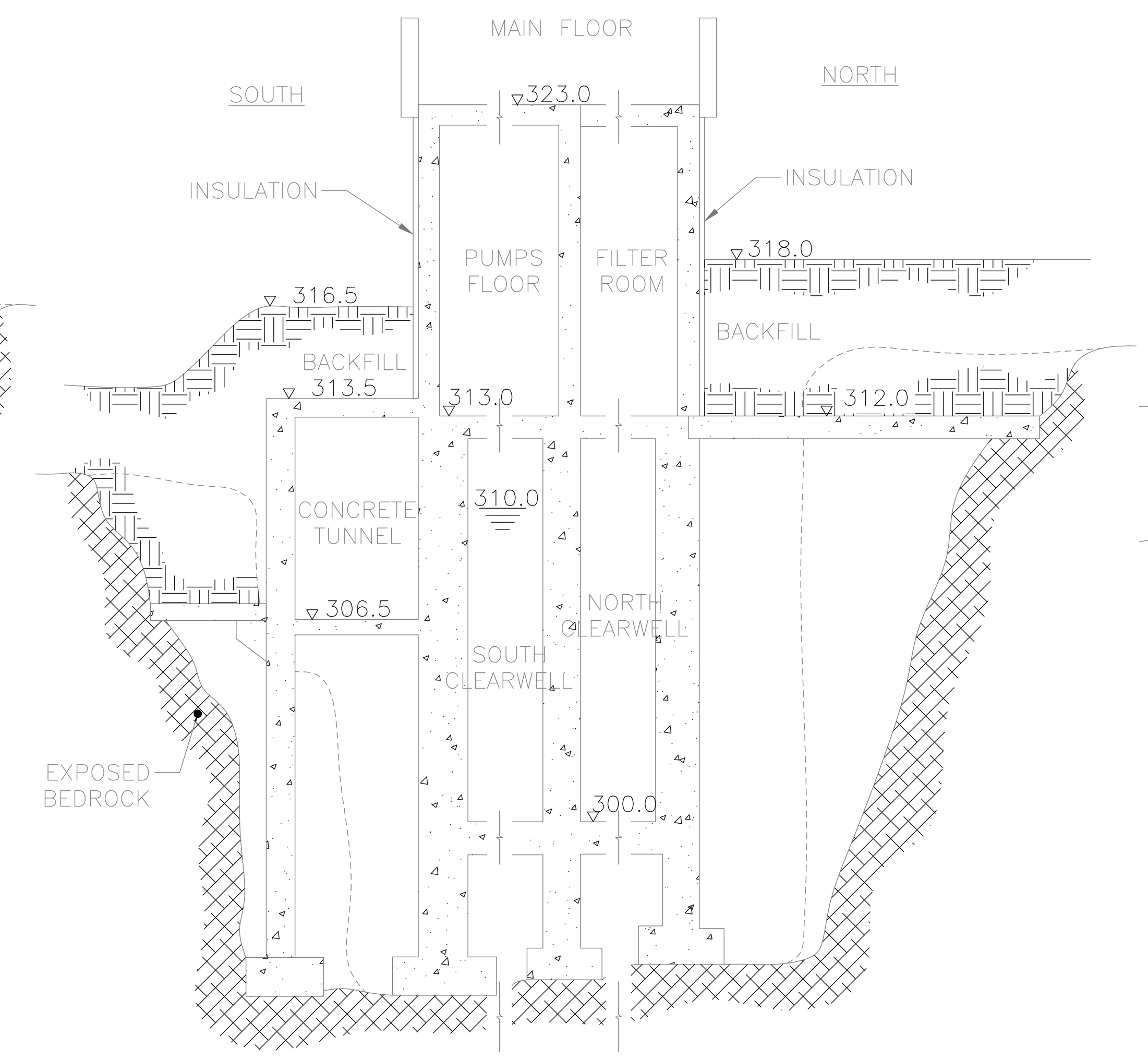

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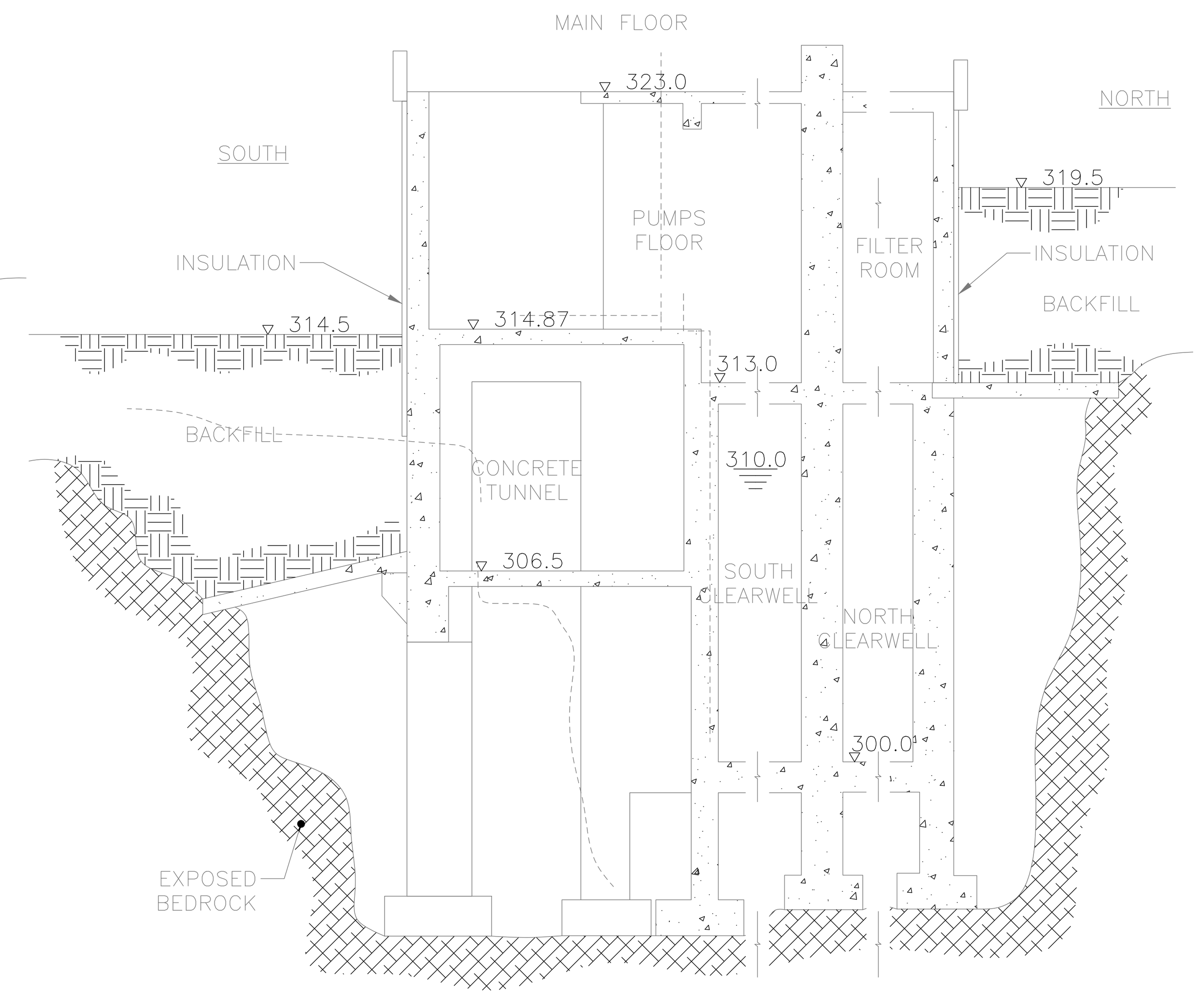

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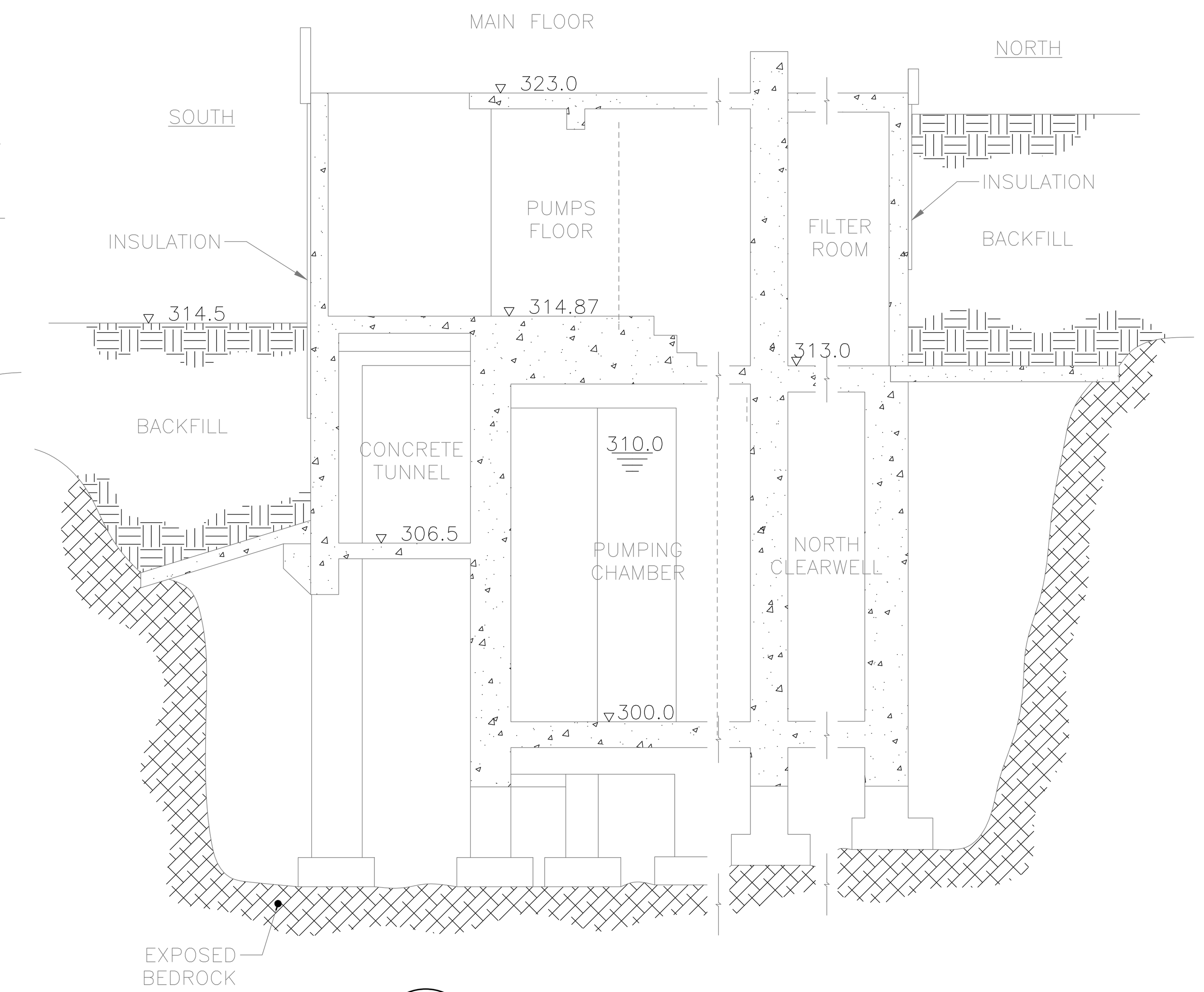

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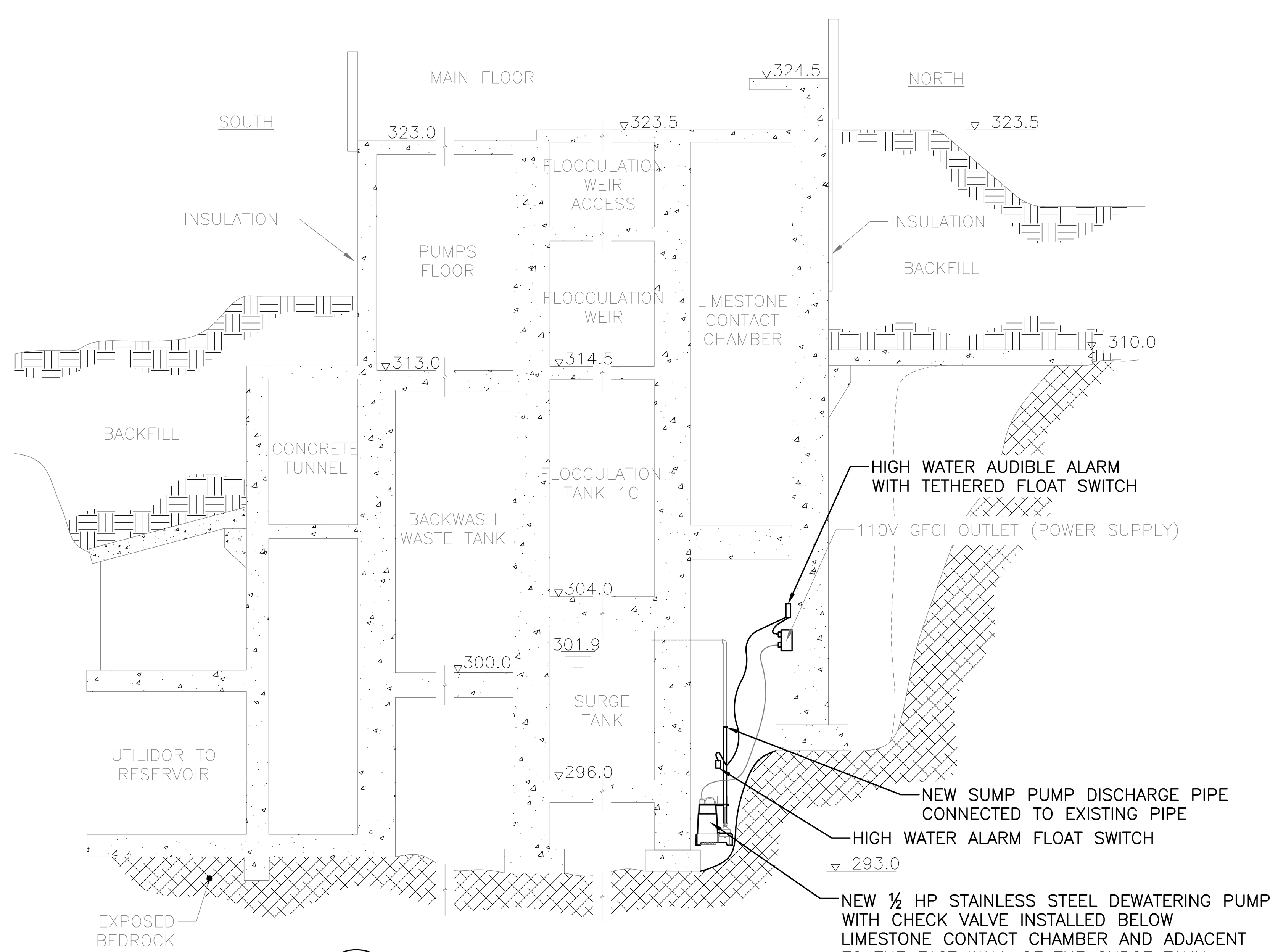
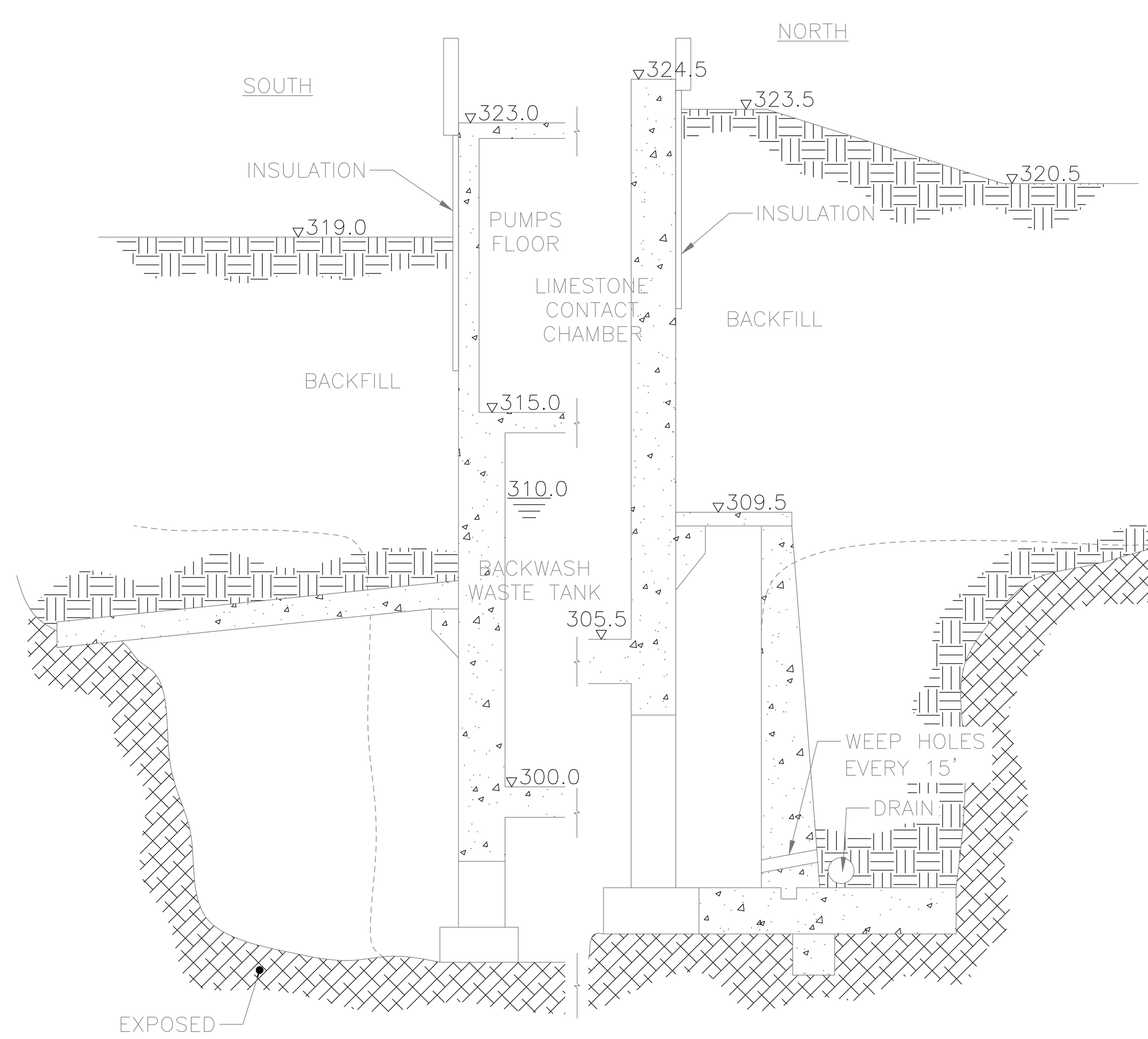


5 C-302 SECTION 11 (SOUTH-NORTH)
N.T.S.



6 C-302 SECTION 12 (SOUTH-NORTH)
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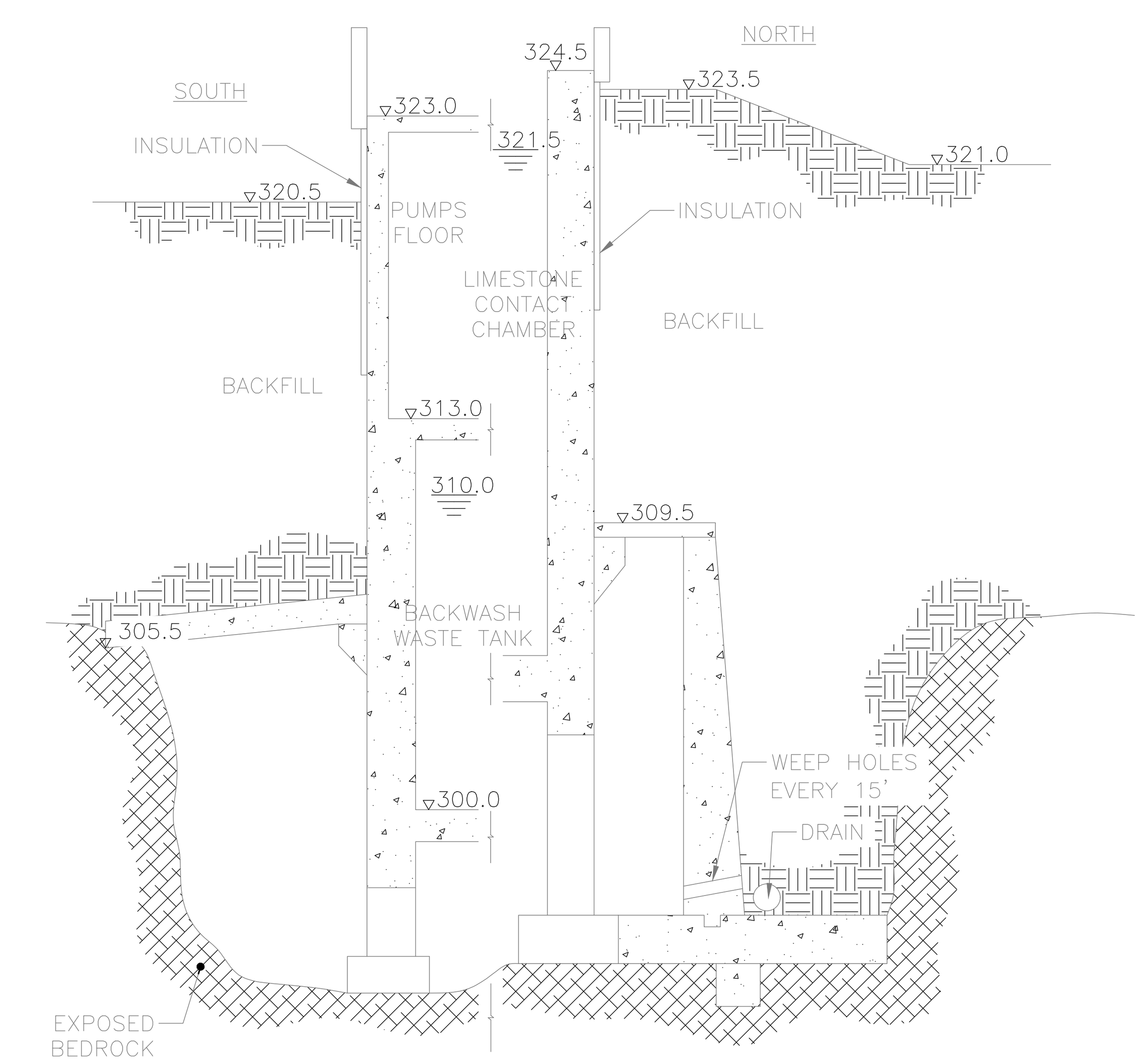

7 C-302 SECTION 13 (SOUTH-NORTH)
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WSP Canada Inc.
Signature #L4060
Date May 20, 2022
PERMIT NUMBER: P407
NT/NU Association of Professional Engineers and Geoscientists

REGISTERED PROFESSIONAL ENGINEER
J.M. RAK-BANVILLE
LICENSEE
May 20, 2022
NT/NU

CLIENT: ᐃᖃᓗᐃᑦ Iqaluit
CITY OF IQALUIT
CLIENT REF. #:

PROJECT: IQALUIT WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

WSP
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
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ORIGINAL SCALE: AS NOTED

TITLE: SOUTH-NORTH SECTIONS

SHEET NUMBER: C-302

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: CIVIL
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REV #: -

GENERAL NOTES

GENERAL

1. READ THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONTRACT DRAWINGS AND DOCUMENTS.
2. ALL DIMENSIONS ON THE DRAWINGS ARE IN MILLIMETRES (mm), UNLESS NOTED OTHERWISE.
3. BEFORE PROCEEDING WITH THE WORK, CHECK ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH ALL OTHER CONTRACT DRAWINGS INCLUDING THE PROCESS, PROCESS & INSTRUMENTATION, ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE CONSULTANT AND AWAIT INSTRUCTIONS PRIOR TO PROCEEDING WITH THE WORK.
4. REFER TO THE PROCESS, PROCESS & INSTRUMENTATION, MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF PIPES, OPENINGS, SLEEVES, PITS, EQUIPMENT BASES, SUMPS, TRENCHES, DEPRESSIONS, GROOVES, CURBS, CHAMFERS AND SLABS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE CONSULTANT AND AWAIT INSTRUCTIONS PRIOR TO PROCEEDING WITH THE WORK.
5. CONTRACTOR TO CONFIRM WITH ALL EQUIPMENT SUPPLIERS, PIT LOCATIONS, SHAFT SIZES, OPENING SIZES, CURB SIZES, AND ALL OTHER CRITICAL DETAILS PRIOR TO CONSTRUCTION. REPORT TO THE CONSULTANT ANY DIFFERENCES BETWEEN DETAILS OR SUPPLIED EQUIPMENT COMPARED TO INFORMATION SPECIFIED AND OBTAIN APPROVAL PRIOR TO PROCEEDING.
6. THE STRUCTURAL DRAWINGS ARE FOR THE COMPLETED PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF WORKERS AND THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE LOADS TABULATED IN THE DESIGN NOTES.
7. MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL BUILDING CODE (NBC) AND THE SPECIFIED MATERIALS STANDARDS UNLESS OTHERWISE NOTED.

DESIGN NOTES

1. CODES, STANDARDS & REFERENCES
   - .1 NATIONAL BUILDING CODE OF CANADA (NBC) (LATEST EDITION).
   - .2 CSA CAN3–A23.3 (LATEST EDITION).
   - .3 CSA CAN3–S16.1 (LATEST EDITION).
   - .4 CSA CAN3–S157 (LATEST EDITION).
   - .5 CAN/CSA–086.1 (LATEST EDITION).
   - .6 PCA 'RECTANGULAR CONCRETE TANKS' 5th EDITION
   - .7 ACI 350 'ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES' (LATEST EDITION)
2. DESIGN LOADS

   THE FOLLOWING UNIFORM SERVICE LEVEL LOADS APPLY. ADDITIONAL LOADS HAVE BEEN CONSIDERED IN LOCATIONS WHERE HEAVY BUILDING COMPONENTS SUCH AS BRICK PANELS, BLOCK WALLS, EQUIPMENT, ETC., ARE SUSPENDED FROM OR SUPPORTED ON THE STRUCTURE.

2.1 ROOF

UNIFORM DEAD LOAD (BASIC) (NOT INCLUDING STRUCTURE SELF WT)		1.0 kPa
STRUCTURE SELF WEIGHT		AS PER DRAWINGS
GROUND SNOW (LIVE) LOAD	S_s	2.7 kPa
ASSOCIATED RAIN (LIVE) LOAD	S_r	0.2 kPa
BASIC SNOW LOAD COEFFICIENT (SNOW LOAD DRIFT AND SLIDING COEFFICIENTS AS PER NATIONAL BUILDING CODE SUPPLEMENT (NBCS – LATEST EDITION)		0.8
ROOF WIND COEFFICIENT		0.75
MINIMUM ROOF SNOW & RAIN(LIVE LOAD)		1.82 kPa
q_{30} WIND (AS PER NBC COMMENTARY)		0.55 kPa

2.2 FLOOR

USE AND OCCUPANCY – LIVE LOADS

GENERAL (INCL. FLOOR GRATINGS)	4.8 kN/m²
EQUIPMENT	6.0 kN/m² OR EQUIPMENT WEIGHT
STRUCTURE SELF WEIGHT	AS PER DRAWINGS
WATER LOAD	DEPTH OF WATER x 9.8 kN/m³

2.3 TANK WALLS – LATERAL LOADS

WATER PRESSURE	9.8 x h (h=WATER DEPTH)
FILTER SAND	16.8 x h (h=DEPTH OF SAND)
FILTER COAL	3.0 x h (h=DEPTH OF COAL)
BACKFILL PRESSURE	p = 20 x h

2.4 SEISMIC LOAD CONSIDERATIONS

Za = 1
Zv = 0
v = 0.05

FOUNDATION NOTES

1. GENERAL

   THE FOUNDATION HAS BEEN DESIGNED BASED ON KNOWLEDGE OF EXISTING SITE CONDITIONS. REFER TO PLANS.

2. COMPACTION DENSITIES AND FILL MATERIALS (U.N.O.)

LOCATION	FILL MATERIAL	*STANDARD PROCTOR DENSITY
BENEATH STRUCTURAL SLAB–ON–GRADE	150 mm (MIN.) THICK CRUSHED OR PIT RUN GRAVEL.	100%
AGAINST FOUNDATION WALLS AND GRADE BEAMS	SAND, PIT RUN GRAVEL OR CRUSHED GRAVEL FULL DEPTH EXCEPT FOR UPPERMOST 300 mm OF FILL AGAINST WALLS AND BEAMS WHICH EXTEND TO SURFACE, THIS 300 mm LAYER OF MATERIAL SHALL CONSIST OF CLAY.	97%
WITHIN UTILITY TRENCHES LOCATED BENEATH ROADWAYS, SIDEWALKS OR OTHER CONCRETE SLABS	CRUSHED GRAVEL, PIT RUN GRAVEL OR SAND.	100%
WITHIN UTILITY TRENCHES LOCATED BENEATH LANDSCAPED AREAS	CLAY, NATIVE OR IMPORTED.	97%

* NOTE: LISTED STANDARD PROCTOR DENSITIES ARE REQUIRED FOR BOTH THE SUB–GRADE AND THE FILL MATERIAL TO BE PLACED OVER THE SUB–GRADE.

CAST–IN–PLACE CONCRETE NOTES

1. CONCRETE SHALL CONFORM TO CSA CAN3–A23.1–(LATEST EDITION), UNLESS NOTED OTHERWISE.
2. CONCRETE SHALL BE NORMAL WEIGHT AND MEET THE FOLLOWING REQUIREMENTS, UNLESS NOTED OTHERWISE:

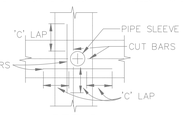
CONCRETE CLASS	MINIMUM COMPRESSIVE STRENGTH @ 28 DAYS (MPa)	MAXIMUM WATER/ CEMENTING MATERIALS RATIO	MINIMUM CEMENT CONTENT (kg)	NOMINAL SIZE OF COARSE AGG. (mm)	AIR CONTENT (%)	SLUMP[1] (mm)
ALL LOCATIONS	30	0.43	280	20	5–7	70±20

[1] SLUMP PRIOR TO THE ADDITION OF ANY SUPERPLASTICIZER.

3. TYPE 50 CEMENT SHALL BE USED FOR ALL CONCRETE.
4. CALCIUM CHLORIDE IN ANY FORM IS NOT PERMITTED IN ANY CONCRETE.

REINFORCING STEEL NOTES

1. ALL REINFORCING BARS SHALL CONFORM TO CSA G30.18–M92, GRADE 400. WELDING OF REINFORCING BARS TO CONFORM TO CSA STANDARD W186–(LATEST EDITION), "WELDING OF REINFORCING BARS IN REINFORCED CONCRETE CONSTRUCTION". NOTIFY CONSULTANT IF WELDING OF REINFORCING IS REQUIRED AND RECEIVE APPROVAL PRIOR TO PROCEEDING.
2. REINFORCING WORK SHALL BE IN ACCORDANCE WITH CAN/CSA3–A23.1– LATEST EDITION.
3. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI DETAILING MANUAL OR THE REINFORCING STEEL INSTITUTE OF CANADA DETAILING MANUAL.
4. MECHANICAL COUPLERS ARE PERMITTED IF REQUIRED AND WHERE SPECIFIED. SUBMIT PROPOSED COUPLER TYPE TO CONSULTANT FOR REVIEW AND APPROVAL PRIOR TO USE. COUPLERS SHALL BE CAPABLE OF DEVELOPING 125% OF THE SPECIFIED YIELD CAPACITY OF THE BARS BEING COUPLED.
5. 90° HOOKS AND 180° HOOKS WHERE SHOWN SHALL BE DETAILED AS STANDARD HOOKS UNLESS NOTED OTHERWISE.
6. WHERE REINFORCEMENT LAPS ARE REQUIRED IN ADJACENT BARS, STAGGER LAPS MINIMUM 1200 UNLESS NOTED OTHERWISE.
7. REINFORCEMENT THAT IS IN CONFLICT WITH PIPE SLEEVE LOCATIONS, OPENINGS, ETC. SHALL BE CUT AND SUPPLEMENTED WITH CLASS 'C' LAP BARS OF SAME SIZE ADJACENT TO THE CUT BAR AS INDICATED IN THE FOLLOWING DETAIL :



DETAIL

SITE CAST–IN–PLACE REINFORCED CONCRETE WORK

1. REINFORCED CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA–A23.1–LATEST EDITION, CAN/CSA–A23.2–LATEST EDITION, CAN/CSA–A23.3–LATEST EDITION. THE CONTRACTOR SHALL HAVE COPIES OF THESE STANDARDS ON SITE AT ALL TIMES FOR REFERENCE.
2. CONCRETE COVER TO REINFORCING STEEL SHALL CONFORM TO THE MOST STRINGENT REQUIREMENT LISTED BELOW, UNLESS NOTED OTHERWISE:

CONCRETE CAST AGAINST EARTH OR ROCK	75 mm
CONCRETE CAST IN FORMS BUT EXPOSED TO EARTH, WEATHER, OR CONTAINED WATER	50 mm
CONCRETE NOT EXPOSED TO WEATHER OR NOT IN CONTACT WITH GROUND OR CONTAINED WATER	
WALLS	40 mm
SLABS	40 mm
BEAMS – TO STIRRUPS	40 mm
COLUMNS – TO TIES	40 mm

3. UNLESS NOTED OTHERWISE, REINFORCING BAR LAPS SHALL BE CLASS C TENSION SPLICES.
4. DOWELS AND ANCHOR BOLTS SHALL BE SECURED IN POSITION BY MEANS OF TEMPLATES BEFORE CONCRETE IS PLACED.
5. REINFORCING STEEL IN SLABS AND BEAMS SHALL BE ADEQUATELY SUPPORTED TO ENSURE THAT IT REMAINS IN POSITION DURING CONCRETE PLACEMENT. REINFORCING STEEL SHALL NOT BE LIFTED INTO POSITION DURING CASTING.
6. CONTRACTOR SHALL SUBMIT TO THE CONSULTANT FOR APPROVAL WELL IN ADVANCE OF CONCRETE PLACEMENT DATE, THE LOCATIONS AND DETAILS OF ALL CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS.
7. CONTRACTOR SHALL SUBMIT TO THE CONSULTANT FOR APPROVAL WELL IN ADVANCE OF CONCRETE PLACEMENT DATE, THE LOCATIONS OF ALL SLEEVES AND OPENINGS NOT SHOWN ON THE DRAWINGS. REVIEW ALL DRAWINGS FOR DETAILS OF FIXTURES, INSERTS, ETC., WHICH ARE REQUIRED TO BE CAST INTO CONCRETE ELEMENTS. THE CONSULTANT WILL PROVIDE STRUCTURAL DETAILS AS REQUIRED FOR SLEEVES AND OPENINGS.
8. PROVIDE RECESSES IN THE TOP OF FOUNDATION WALLS AND GRADE BEAMS AT ALL DOOR OPENINGS, TO ALLOW SLAB–ON–GRADE TO CONTINUE OVER.
9. REVIEW ALL DRAWINGS FOR FLOOR RECESS AND SLOPE REQUIREMENTS FOR CONCRETE SLABS AND COORDINATE AND PERFORM THIS WORK.
10. TOOLED OR SAW CUT CONTROL JOINTS IN SLAB–ON–GRADE CONSTRUCTION TO BE AS PER CSA CAN3–A23.1. LOCATIONS AS PER DRAWINGS EXCEPT THAT WHEN LOCATIONS ARE NOT INDICATED, JOINTS SHALL BE SPACED AT 4500 mm ON CENTRE MAXIMUM. OBTAIN CONSULTANT'S APPROVAL OF LOCATIONS PRIOR TO PROCEEDING. FILL ALL JOINTS WITH DUOFLEX 2 SEALANT BY STERNSON.
11. UNLESS INDICATED OTHERWISE, ALL SLABS–ON–GRADE SHALL BE 125 mm THICK PLACED ON AN APPROVED COMPACTED PIT RUN GRANULAR MATERIAL 150 mm MINIMUM THICKNESS. COMPACTION OF GRANULAR MATERIAL TO EQUAL 100% STANDARD PROCTOR DENSITY EXCEPT WHERE INDICATED OTHERWISE. REINFORCE WITH 10M AT 300 O.C. EACH WAY, CHAIR REINFORCEMENT TO ENSURE IT IS LOCATED IN TOP ONE THIRD THICKNESS OF SLAB.
12. REFER TO SITE DRAWINGS FOR EXACT SIZE, EXTENT, AND LOCATIONS OF EXTERIOR WALKS AND PADS.
13. PROVIDE 20 CHAMFER AT CORNERS/EDGES OF ALL WALLS, SLABS & BEAMS UNLESS NOTED OTHERWISE.
14. SPECIFIED DRILLED & EPOXIED DOWEL LOCATIONS/SPACING MAY BE SLIGHTLY MODIFIED IN ORDER TO AVOID HITTING OR DAMAGING EXISTING REINFORCEMENT. CONTRACTOR TO USE REBAR LOCATING DEVICE TO AVOID CONFLICTS. REVIEW ALL CONFLICTS WITH ENGINEER AND RELOCATE CONFLICTING DOWELS TO AN APPROVED POSITION.
15. DOWEL EPOXY: HILTI HIT HY150 INJECTION ADHESIVE OR CONSULTANT APPROVED ALTERNATE.

STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH CSA CAN3–S16.1–(LATEST EDITION) AND THE CISC CODE OF STANDARD PRACTICE FOR BUILDINGS (LATEST EDITION) UNLESS NOTED OTHERWISE.
2. MATERIAL REQUIREMENTS
   - A) STRUCTURAL SHAPES AND PLATE (EXCLUDING HSS): IN ACCORDANCE WITH CAN/CSA G40.20–(LATEST EDITION) AND CAN/CSA G40.21–(LATEST EDITION), GRADE 300W.
   - B) HSS SECTIONS: IN ACCORDANCE WITH CAN/CSA G40.20–(LATEST EDITION) AND CAN/CSA G40.21–(LATEST EDITION), 350W.
   - C) ROUND PIPE SECTIONS: IN ACCORDANCE WITH ASTM STANDARD A53, MIN. YIELD STR. 240 MPa.
   - D) ANCHOR BOLTS: THREADED ROD: GRADE 300W.
   - E) ALL OTHER BOLTS: IN ACCORDANCE WITH ASTM A325 OR A325M.
   - F) SHEAR STUD CONNECTORS: TO CSA W59–(LATEST EDITION).
   - G) HOT DIP GALVANIZING: TO CSA G164–(LATEST EDITION).
   - H) SHOP PAINT PROTECTIVE COATINGS – ALL EXTERIOR STRUCTURAL STEEL TO BE GALVANIZED U.N.O. – REFER TO SPECIFICATIONS.
   - I) SHOP EPOXY PRIMER (FIRST COAT) AND FIELD TOUCH–UP PRIMER: IN ACCORDANCE WITH CGSB 1–GP–153.
3. ALL WELDING SHALL BE DONE WITH E480xx ELECTRODES AND SHALL CONFORM TO CSA W59–(LATEST EDITION). ALL WELDING TO BE PERFORMED BY CERTIFIED COMPANY APPROVED BY CANADIAN WELDING BUREAU UNDER REQUIREMENTS OF CSA W47.1–(LATEST EDITION).
4. ALL GROUT UNDER BEARING PLATES AND BASEPLATES SHALL BE NON–METALLIC, NON–SHRINK TYPE WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 40 MPa, INSTALLED IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
5. CONNECTIONS, IF NOT SPECIFICALLY DETAILED, SHALL BE DESIGNED BY THE CONTRACTOR IN ACCORDANCE WITH CSA CAN3–S16.1–(LATEST EDITION) TO RESIST FORCES, MOMENTS AND SHEARS INDICATED ON DRAWINGS; ALTERNATIVELY WHERE THIS INFORMATION IS NOT GIVEN DESIGN CONNECTIONS TO RESIST THE SPECIFIED DEAD LOAD OF ALL MATERIALS AND THE SPECIFIED LIVE LOADS. ALL CONNECTION DESIGN AND DETAILING TO BE PERFORMED BY OR UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED TO PRACTICE IN THE PROVINCE OF ALBERTA.
6. CONNECTIONS TO SIDE FACES OF HSS MEMBERS SHALL BE REINFORCED AS REQUIRED AND SHALL BE DESIGNED FOLLOWING GUIDELINES SET OUT IN THE STELCO PUBLICATION "HOLLOW STRUCTURAL SECTIONS – DESIGN MANUAL FOR CONNECTIONS" OR FOLLOWING OTHER SOUND ENGINEERING PRINCIPLES.
7. PROVIDE BOLT HOLES IN STRUCTURAL STEEL WHERE SHOWN AND WHERE REQUIRED FOR THE ATTACHMENT OF BOLTED BLOCKING OR FASTENINGS BY OTHER TRADES.
8. PROVIDE STIFFENER/BEARING PLATES ON BOTH SIDES OF W–SHAPE AND ON ONE SIDE OF C–SHAPE BEAMS AT ALL LOCATIONS WHERE CONCENTRATED LOADS OCCUR AND AT BEARING SUPPORTS. UNLESS INDICATED OTHERWISE, EACH STIFFENER SHALL EQUAL HALF THE BEAM WIDTH, BE FULL HEIGHT BETWEEN FLANGES, AND HAVE A MINIMUM THICKNESS OF 8 mm BUT SHALL NOT BE THINNER THAN THE WEB OF THE BEAM.
9. PROVIDE CLOSURE PLATES AT ALL OPEN ENDS OF ALL HSS MEMBERS. PLATE THICKNESS TO EQUAL WALL THICKNESS OF HSS MEMBER UNLESS NOTED OTHERWISE.
10. FRAME ALL OPENINGS IN ROOF AND FLOOR SYSTEMS, ROUND AND RECTANGULAR, THAT ARE LARGER IN AREA THAN A 400 mm DIAMETER HOLE. COORDINATE WITH MECHANICAL DRAWINGS, ARCHITECTURAL DRAWINGS AND OTHER CONTRACT DOCUMENTS AND PROVIDE FRAMES IN ALL SUCH LOCATIONS. IF FRAMES ARE NOT SPECIFICALLY DETAILED, DESIGN FRAMES TO SUPPORT SPECIFIED LOADS INCLUDING EQUIPMENT WHERE APPLICABLE.
11. SHOP DRAWINGS SHALL BE SUBMITTED FOR CONSULTANT REVIEW PRIOR TO ANY FABRICATION.
12. THE STRUCTURAL STEEL FRAMING IS BRACED FOR PERMANENT LATERAL STABILITY. ROOF DECKS ARE DESIGNED TO ACT AS HORIZONTAL DIAPHRAGMS TO CARRY LATERAL LOADS TO STRUCTURAL BRACING SYSTEMS. PROVIDE TEMPORARY BRACING AS REQUIRED DURING CONSTRUCTION. ERECTION BRACING TO BE REMOVED ONLY AFTER ROOF DECK, FLOOR DECK AND ALL PERMANENT STRUCTURAL FRAMING IS IN PLACE.

    ALL PERIMETER DECK ANGLES ARE REQUIRED TO BE CONTINUOUS TO FUNCTION AS PART OF THE DIAPHRAGM. ANGLE CONTINUITY SHALL BE MAINTAINED BY APPROVED SPLICES. SPLICES TO BE LOCATED AT SUPPORT POINTS ONLY.
13. CLEAN ALL STEEL PRIOR TO PAINTING TO SSPC SURFACE PREPARATION SPECIFICATION NO. 7 "BRUSH–OFF BLAST CLEANING" EXCEPT STRUCTURAL STEEL MEMBERS WHICH ARE EXPOSED IN THE COMPLETED STRUCTURE IN WHICH CASE CLEANING SHALL CONFORM TO SSPC SURFACE PREPARATION SPECIFICATION NO. 6 "COMMERCIAL BLAST CLEANING".
14. FIELD WELDING AND FIELD MODIFICATION OF STRUCTURAL STEEL SHALL NOT BE ALLOWED WITHOUT PRIOR REVIEW AND APPROVAL BY CONSULTANT.
15. AT THE COMPLETION OF ERECTION, ALL FIELD JOINTS, BOLTS, WELDS, BURNED AND ABRADED SURFACES SHALL BE THOROUGHLY CLEANED AND PAINTED WITH SPECIFIED PRIME AND FINISH COATS. IN THE CASE OF GALVANIZED SURFACES, APPLY MULTIPLE COATS OF ORGANIC ZINC RICH PAINT (DOD–P–21035) TO FORM A DRY FILM THICKNESS OF .8 MILS (IN ACCORDANCE WITH ASTM–A780).
16. APPLY TWO COATS OF AN APPROVED ASPHALTIC BASED PAINT TO ALL STEEL EXPOSED TO SOIL.

TIMBER NOTES

1. GENERAL
   - .1 TIMBER CONSTRUCTION SHALL CONFORM TO CAN/CSA 086.1 (LATEST) UNLESS NOTED OTHERWISE
2. WOOD FRAMING MATERIAL (UNLESS SPECIFIED OTHERWISE) :
   - .1 LINTELS, BUILT–UP BEAMS : S–P–F NO. 1/NO. 2
   - .2 WALL STUDS : KILN DRIED S–P–F NO. 1/NO. 2 (S–DRY)
   - .3 JOISTS : PREFABRICATED WOOD I–JOISTS TO DEPTHS AND/OR CAPACITIES SHOWN ON PLANS. REFER ALSO TO SPECIFICATIONS.
   - .4 STRUCTURAL COMPOSITE LUMBER BEAMS & COLUMNS: PROPRIETARY MANUFACTURED MEMBERS TO SIZES AS NOTED ON DRAWINGS.
   - .5 PLYWOOD : CAN/CSA 0121 DOUGLAS FIR PLYWOOD
     CAN/CSA 0151 CANADIAN SOFTWOOD PLYWOOD
     CAN/CSA 0325.0 CONSTRUCTION SHEATHING
     CAN/CSA 0437.0 WAFERBOARD & STRANDBOARD
   - .6 EXTERIOR SHEATHING TO BE PLYWOOD NOT O.S.B.
3. ALL LUMBER IN DIRECT CONTACT WITH MASONRY, CONCRETE, SOIL OR MOISTURE SHALL BE TREATED. REFER TO SPECIFICATIONS.
4. PLYWOOD FOR WALLS AND ROOF TO BE AS NOTED ON DRAWINGS.

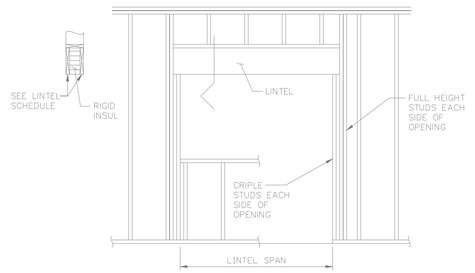
   PLYWOOD FASTENING REQUIREMENTS (U.N.O.)

   – WALL & ROOF SHEATHING:
   @ PANEL EDGES 150mm.c. (U.N.O.)
   @ INTERMEDIATE FRAMING MEMBERS 300mm.c.
   USE 65mm NAILS U.N.O.
5. ALL TIMBER BEAM CONNECTIONS MAY BE STANDARD EXPOSED CONNECTIONS WITH SIDE PLATES OR SHOES AND NO COUNTER SUNK BOLTS
6. PROVIDE TJI PURPOSE MADE X–BRACING @ SUPPORT LINES BETWEEN ALL JOISTS AND ADDITIONALLY AT MANUFACTURER'S RECOMMENDED SPACING ALONG SPAN LENGTH
7. PROVIDE LINTELS OVER ALL OPENINGS OR RECESSES IN TIMBER WALLS, INCLUDING THOSE FOR MECHANICAL OR ELECTRICAL SERVICES AND EQUIPMENT.

   PROVIDE LINTELS AS FOLLOWS, UNLESS NOTED OTHERWISE:

LINTEL* (mm)	SPAN (mm)	CRIPLE STUDS EACH SIDE	FULL HEIGHT STUDS EACH SIDE
2 @ 38x184	0 – 1200	1	1
2 @ 38x286	1201 – 1800	1	2
3 @ 38x286	1801 – 2400	2	2
4 @ 38x286	2401 – 3000	2	3

* FILL LINTEL THICKNESS WITH RIGID INSULATION TO MAKE UP TOTAL THICKNESS OF WALL



FILTER TANK FLOOR POST–TENSIONING NOTES

1. PROCEDURE:
   - 1.1 ALL NEW CONCRETE WALL CONSTRUCTION AND FLOOR TOPPING CONCRETE SHALL BE COMPLETE AND CURED TO AT LEAST 80% f'c PRIOR TO PROCEEDING WITH THREADBAR STRESSING.
   - 1.2 EACH 25mm DIAMETER THREADBAR SHALL BE STRESSED WITH A HYDRAULIC JACK TO PROVIDE A 250kN FORCE AFTER ALL SEATING LOSSES.

     DO NOT OVERSTRESS ANCHORS
   - 1.3 STRESSING SHALL OCCUR IN THE SEQUENCE INDICATED ON THE PLAN, OR WHERE NOT INDICATED IN AN ENGINEER PRE–APPROVED SEQUENCE.
   - 1.4 A CERTIFIED CALIBRATION CURVE SHALL ACCOMPANY EACH HYDRAULIC JACK USED, SHOWING THE RELATIONSHIP BETWEEN GAUGE READINGS AND STRESS IN THE RAM. LOSSES IN STRESS DUE TO ANCHOR SET, STEEL RELAXATION, PLASTIC FLOW, ETC. SHALL BE CONSIDERED. SUBMIT ALL TO ENGINEER IN ADVANCE OF STRESSING OPERATIONS.
   - 1.5 STRESS IN THE THREADBARS SHALL BE MEASURED BY MEANS OF BAR EXTENSION AND SHALL BE CHECKED CONTINUOUSLY BE MEANS OF THE JACK GAUGE. WHEN DISCREPANCIES BETWEEN EXTENSION AND GAUGE PRESSURE EXCEEDS 8% STRESSING SHALL STOP AND NOT PROCEED AGAIN UNTIL THE SITUATION IS RECTIFIED.
   - 1.6 RECORDS SHALL BE MAINTAINED FOR ALL STRESSING OPERATIONS INCLUDING GAUGE PRESSURE, ELONGATIONS AND OTHER PERTINENT INFORMATION FOR EVERY STRESSING LOCATION. SUBMIT ONE COPY TO THE ENGINEER UPON PROJECT COMPLETION.
   - 1.7 UNLESS OTHERWISE INDICATED POST TENSIONING PROCEDURES SHALL CONFORM TO CSA A23.1–00, AND TO GOOD PRACTICE FOR POST–TENSIONING OPERATIONS. IT SHALL BE EXECUTED BY QUALIFIED EXPERIENCED OPERATORS AND IN CONFORMANCE WITH ANY REQUIREMENTS OF THE SUPPLIER/MANUFACTURER.
2. MATERIALS:
   - 2.1 P–T THREADBAR – TO BE DYWIDAG THREADBAR OR ENGINEER APPROVED EQUAL TO CSA G279–M82 Fpu =1030 MPa. TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.
   - 2.2 P–T ANCHOR PLATES, NUTS, COUPLERS – AS MANUFACTURED BY DYWIDAG OR ENGINEER APPROVED MANUFACTURER FOR SPECIFIED USE WITH THE SPECIFIED THREADBAR. TO BE HOT DIPPED GALVANIZED AFTER FABRICATION, UNLESS NOTED OTHERWISE

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: ᐃᖃᓗᐃᑦ Iqaluit CITY OF IQALUIT

CLIENT REF. #:

PROJECT: IQALUIT WATER TREATMENT PLANT

PROJECT NO: 211-12497-00

DATE: 2021/11/23

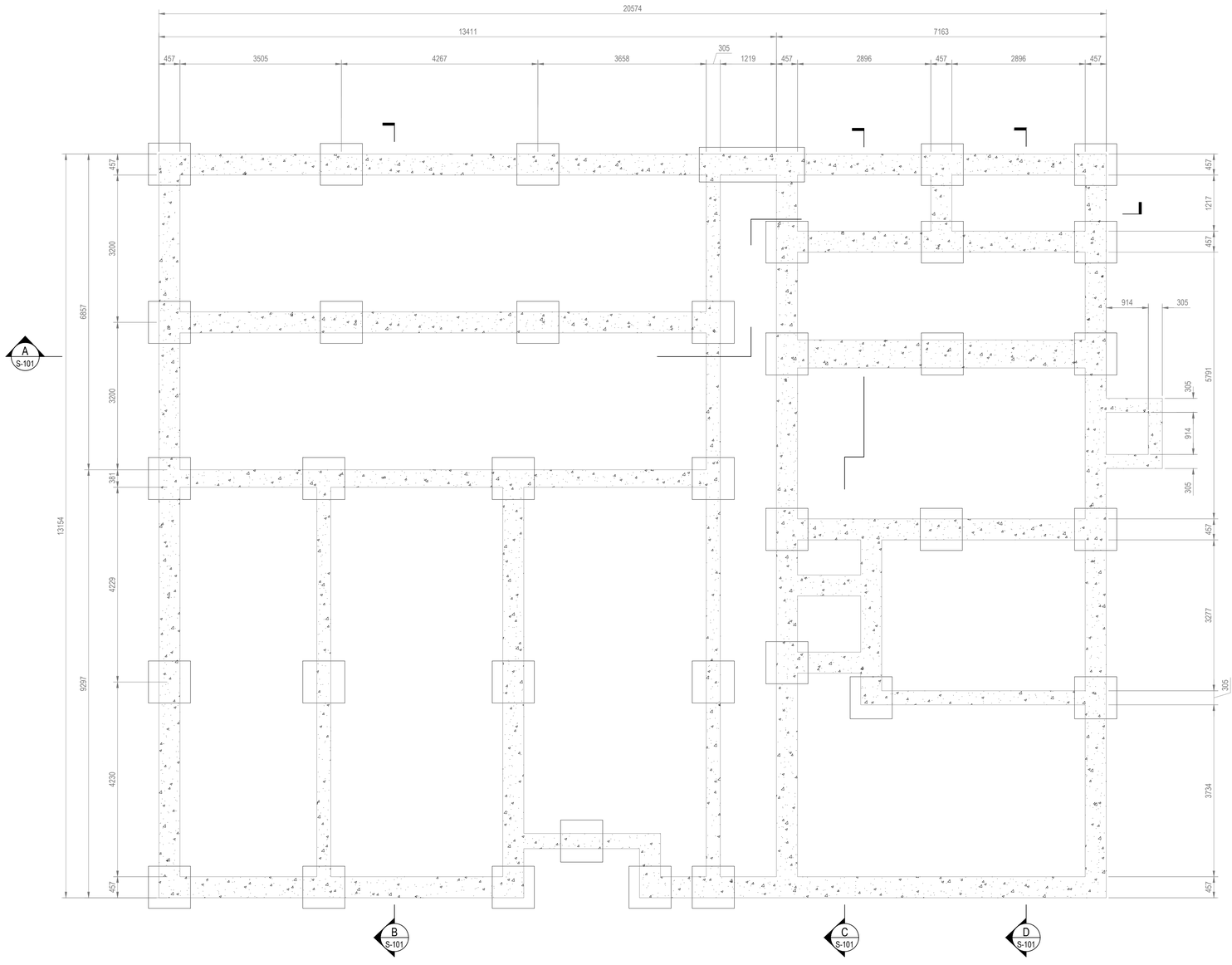
wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX: 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

TITLE: GENERAL AND DESIGN NOTES

SHEET NUMBER: S-001

DESIGNED BY:	IM / CG / JRB
DRAWN BY:	IM
CHECKED BY:	CG / JRB
DISCIPLINE:	STRUCTURAL
ISSUE:	UPDATED SKETCHES 2022/05/20
REV #	-



1 PLAN BELOW ELEVATION 91.440 (300')
1:50

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REFER TO EARTH TECH (CANADA) INC. IQALUIT WATER TREATMENT PLANT DRAWINGS FOR CITY OF IQALUIT CONTRACT NO. 55524 FOR DETAILS DESCRIBING MODIFICATIONS TO EXISTING STRUCTURE AND OTHER UPGRADES.

NOTES:
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2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: ᐃᖃᓗᐃᑦ Iqaluit
CITY OF IQALUIT
CLIENT REF. #:

PROJECT:
IQALUIT
WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

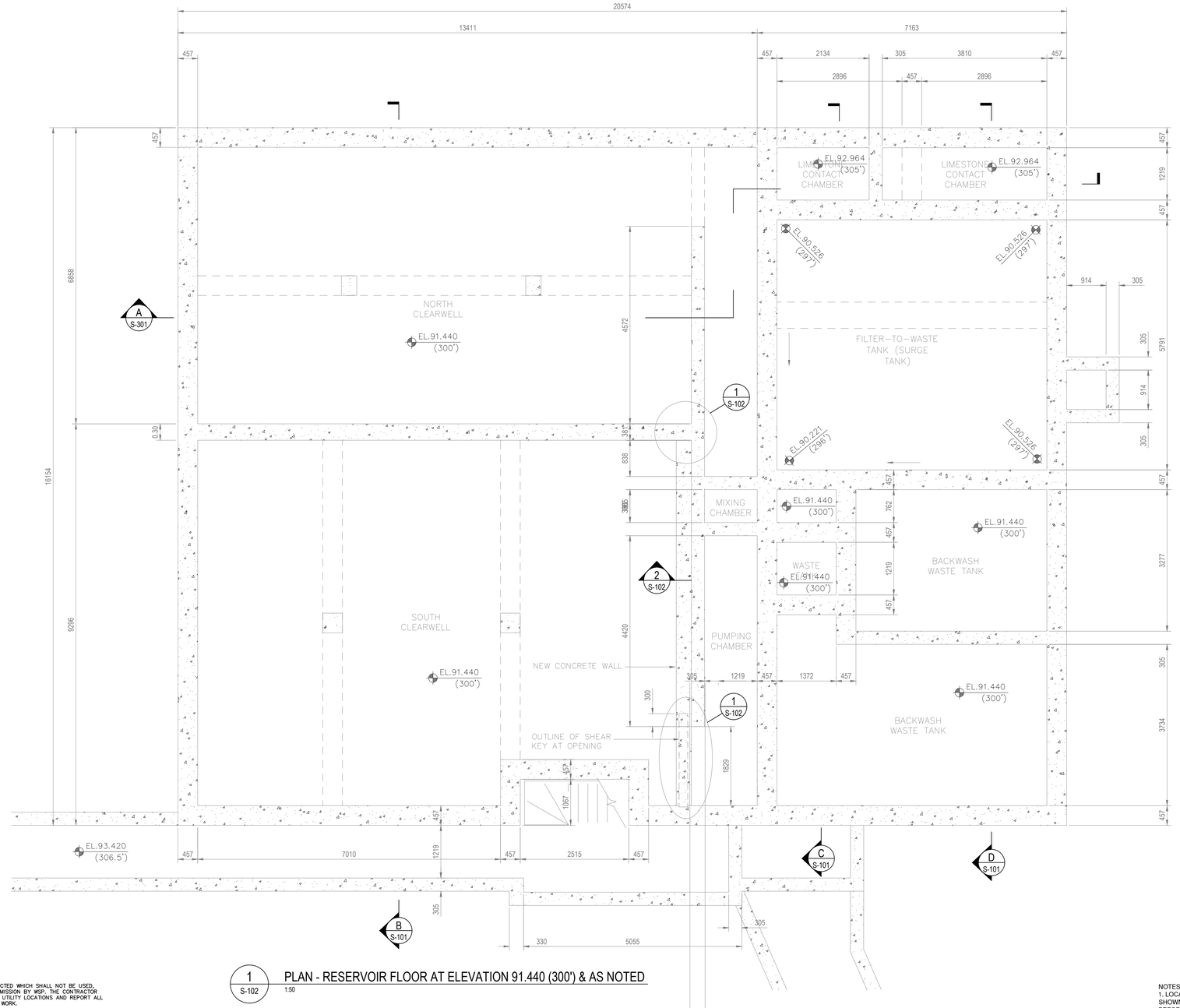
wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX: 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

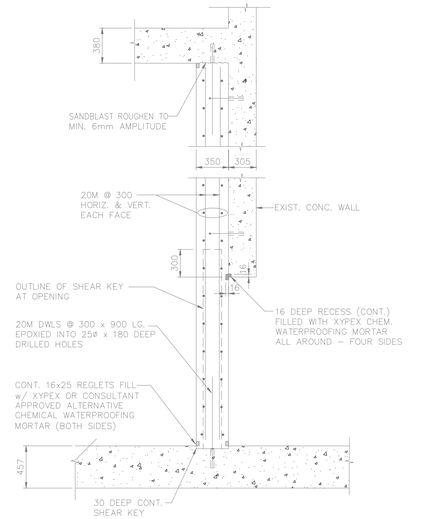
TITLE: EXISTING FOUNDATION LAYOUT

SHEET NUMBER: S-101

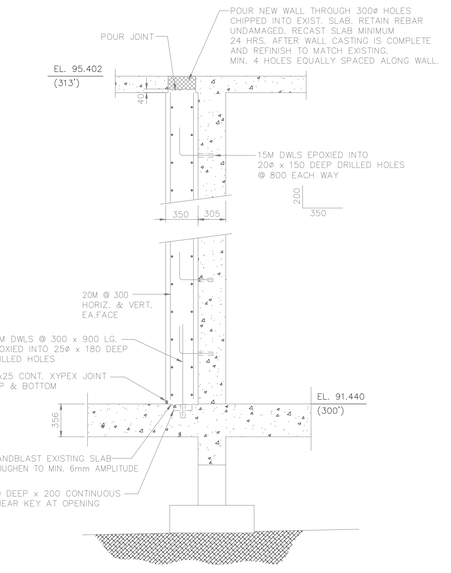
DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: STRUCTURAL
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



1 S-102 PLAN - RESERVOIR FLOOR AT ELEVATION 91.440 (300') & AS NOTED
1:50



1 S-3 PLAN DETAIL
1:30



2 S-3 DETAIL
1:30

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SEAL:

CLIENT: Iqaluit — CITY OF IQALUIT
CLIENT REF. #:

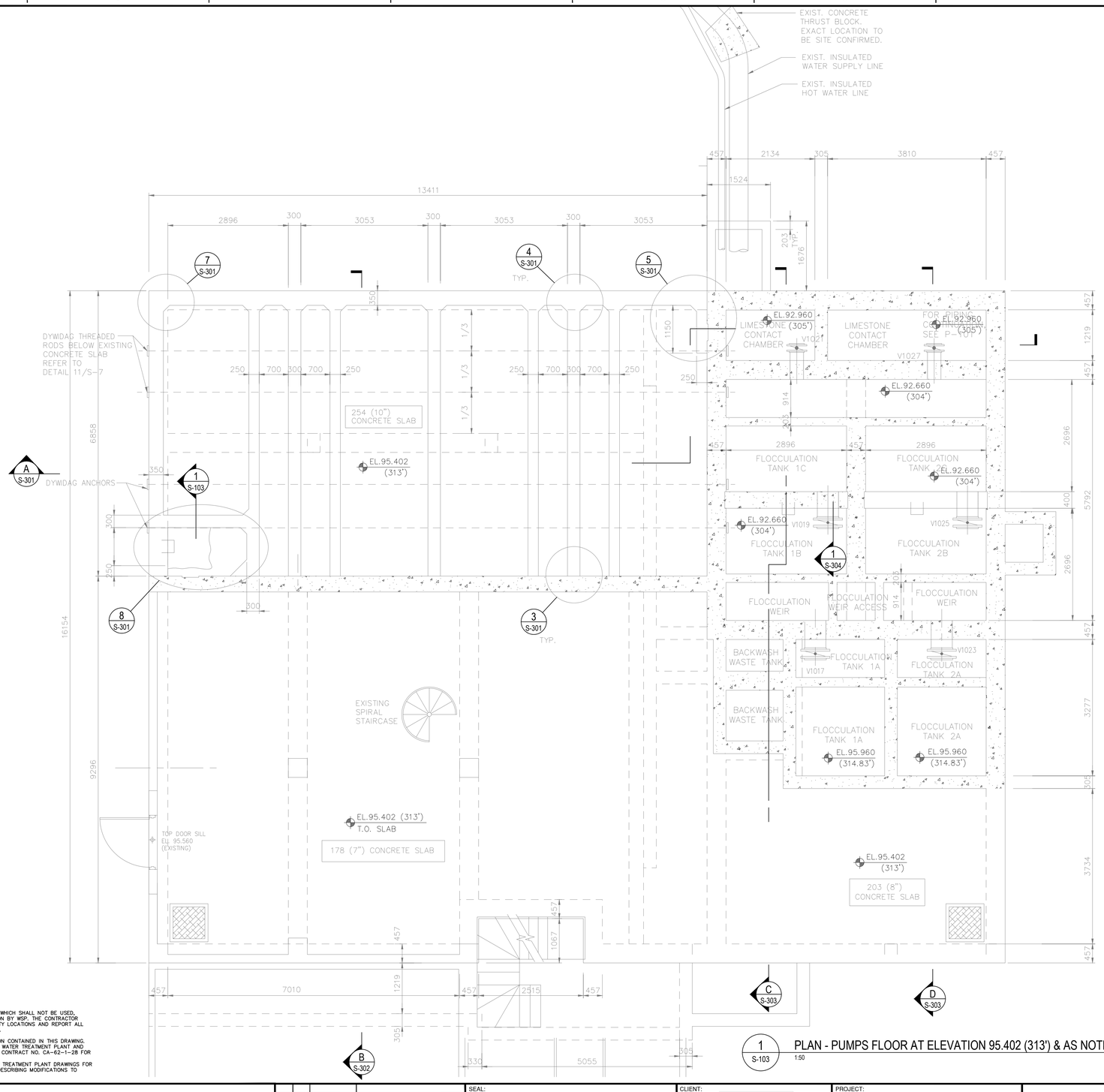
PROJECT: IQALUIT WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX: 204-474-2864
WWW.WSP.COM

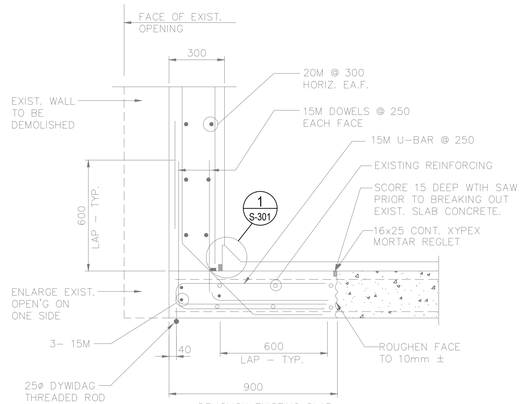
ORIGINAL SCALE: AS NOTED

TITLE: EXISTING RESERVOIR FLOOR PLAN
SHEET NUMBER: S-102

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: STRUCTURAL
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



1 S-103 PLAN - PUMPS FLOOR AT ELEVATION 95.402 (313') & AS NOTED
1:50



1 S-103 SECTION
1:15

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DATE: 2021/11/23

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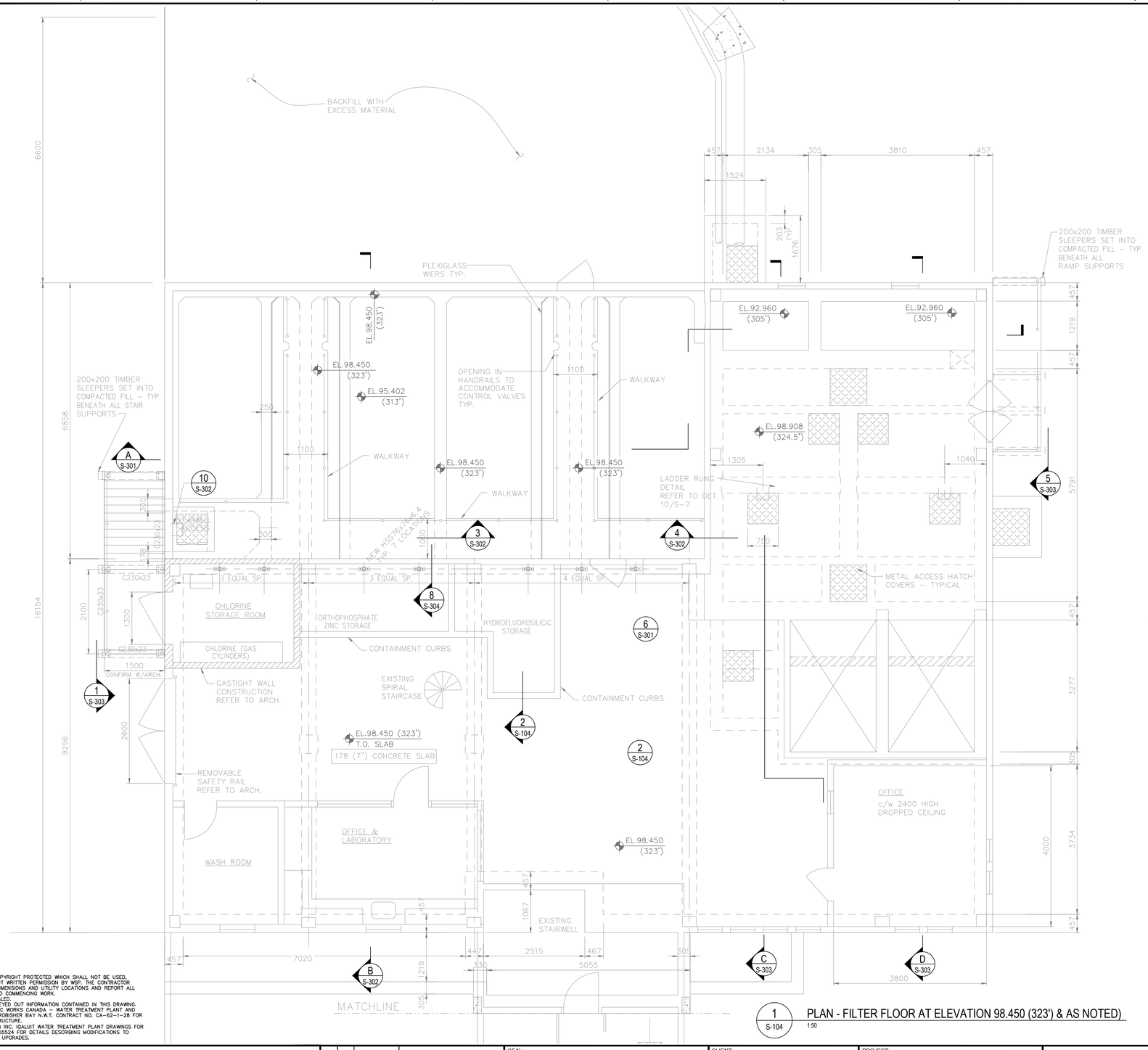
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX: 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

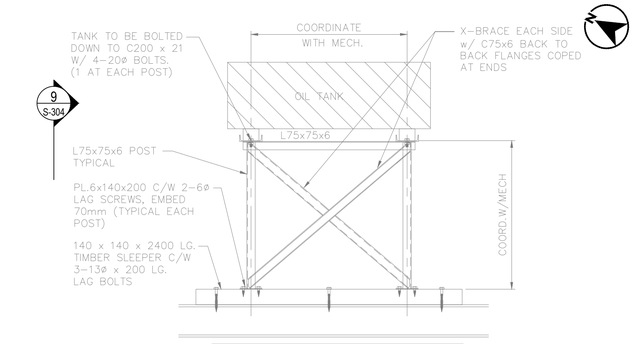
TITLE: PUMPS FLOOR PLAN

SHEET NUMBER: S-103

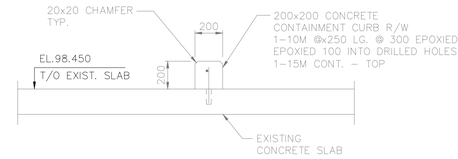
DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: STRUCTURAL
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



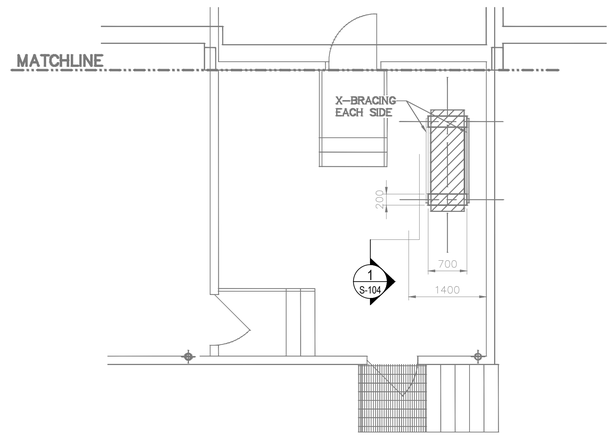
1 S-104 PLAN - FILTER FLOOR AT ELEVATION 98.450 (323') & AS NOTED)
1:50



1 S-104 SECTION
NTS



2 S-104 SECTION
1:20



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1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: Iqaluit — CITY OF IQALUIT
CLIENT REF. #:

PROJECT: IQALUIT WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

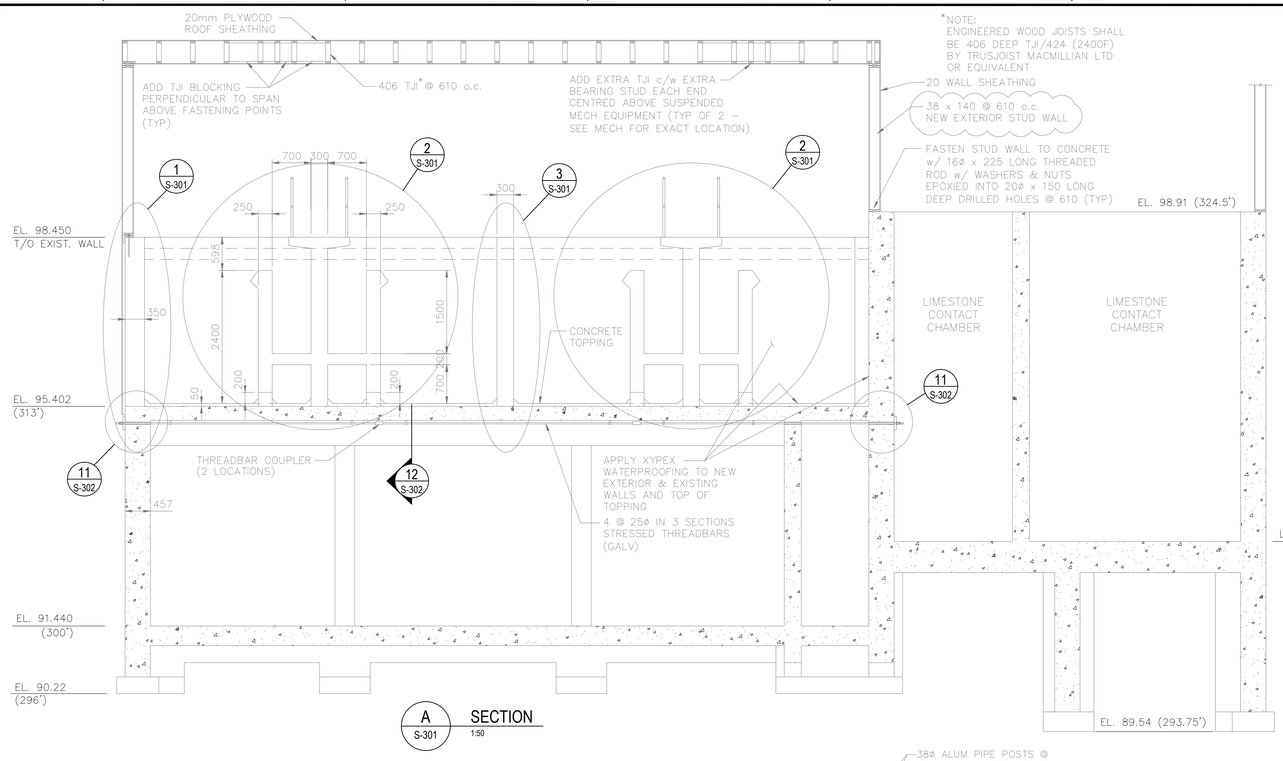
WSP
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX: 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

TITLE: FILTER FLOOR PLAN

SHEET NUMBER: S-104

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: STRUCTURAL
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



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wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: N.T.S.

TITLE: SECTIONS & DETAILS

SHEET NUMBER: S-301

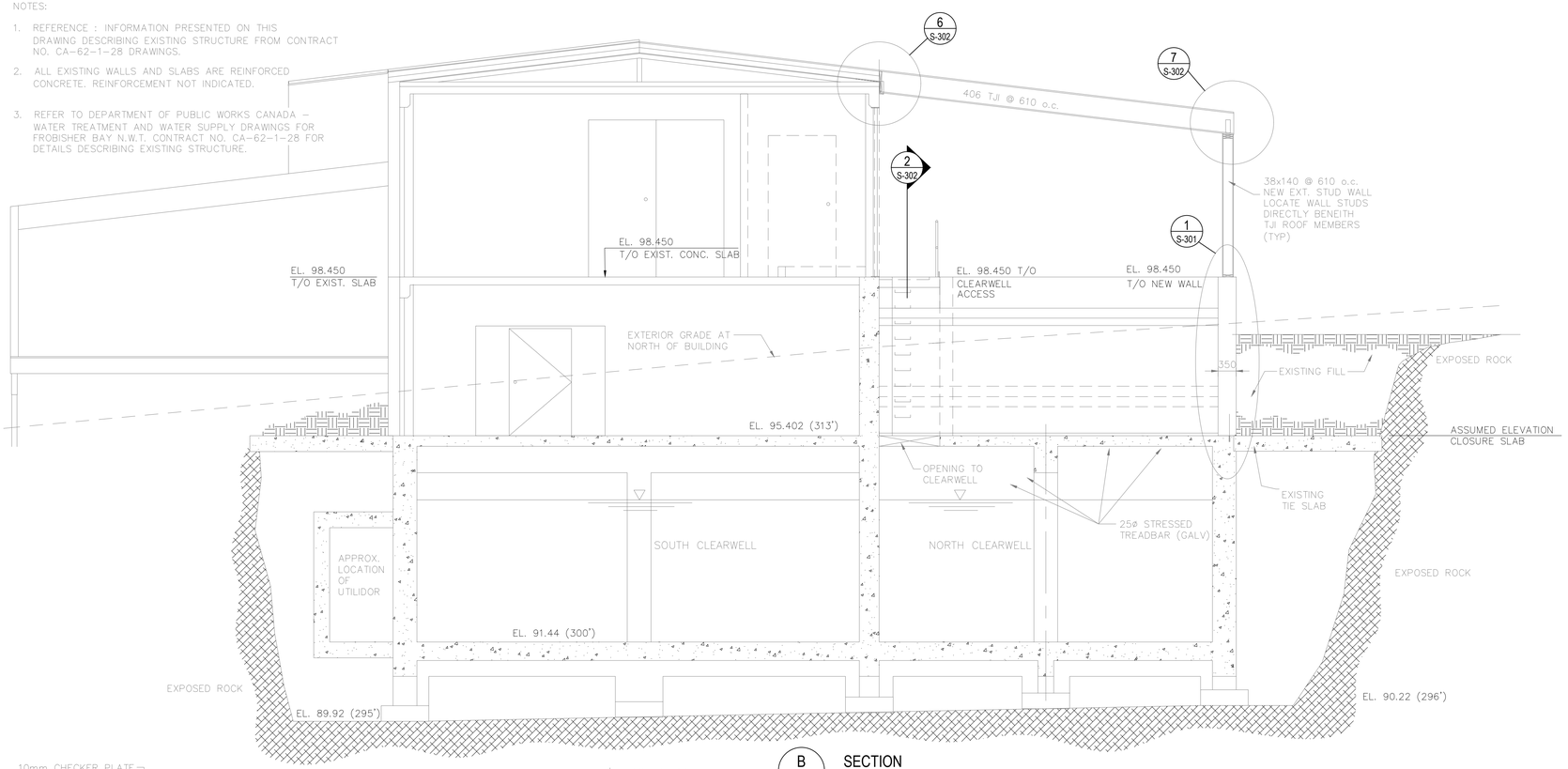
DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: STRUCTURAL

ISSUE: UPDATED SKETCHES 2022/05/20

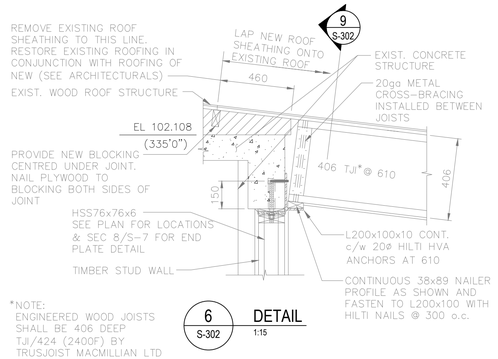
REV #: -

NOTES:

1. REFERENCE : INFORMATION PRESENTED ON THIS DRAWING DESCRIBING EXISTING STRUCTURE FROM CONTRACT NO. CA-62-1-28 DRAWINGS.
2. ALL EXISTING WALLS AND SLABS ARE REINFORCED CONCRETE. REINFORCEMENT NOT INDICATED.
3. REFER TO DEPARTMENT OF PUBLIC WORKS CANADA – WATER TREATMENT AND WATER SUPPLY DRAWINGS FOR FROBISHER BAY N.W.T. CONTRACT NO. CA-62-1-28 FOR DETAILS DESCRIBING EXISTING STRUCTURE.

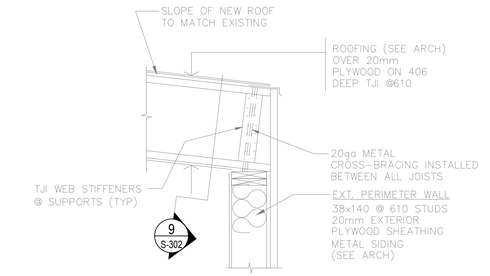


B S-302 SECTION 1:50

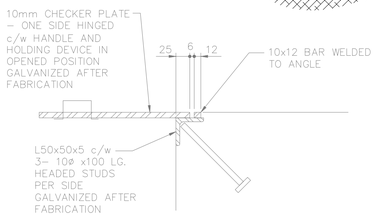


*NOTE:
ENGINEERED WOOD JOISTS SHALL BE 406 DEEP TJI/424 (2400F) BY TRUSJOIST MACMILLIAN LTD OR EQUIVALENT

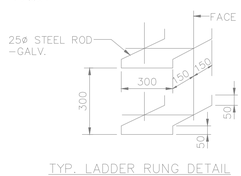
6 S-302 DETAIL 1:15



7 S-302 DETAIL 1:15

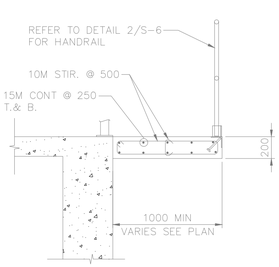


1 S-302 DETAIL 1:5

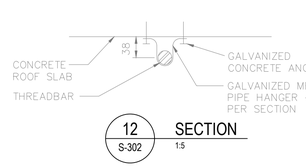


TYP. LADDER RUNG DETAIL

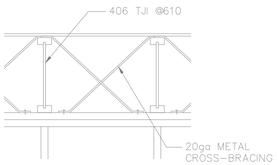
10 S-302 DETAIL 1:25



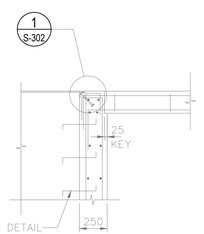
5 S-302 SECTION 1:25



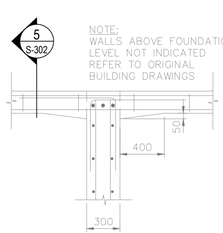
12 S-302 SECTION 1:5



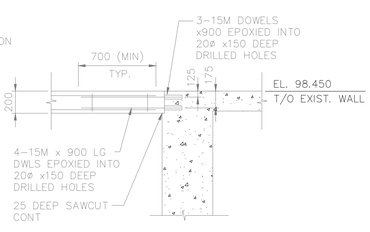
9 S-302 SECTION 1:15



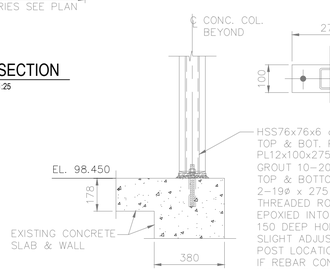
2 S-302 SECTION 1:25



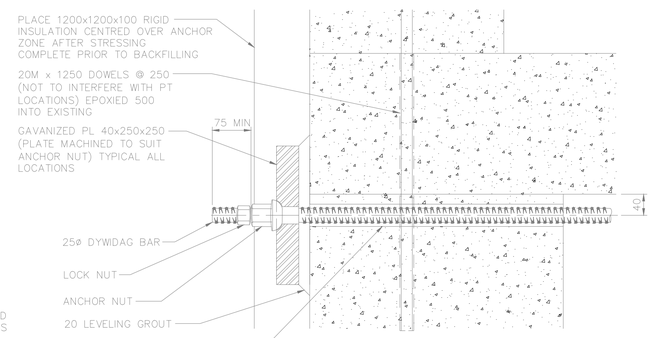
3 S-302 SECTION 1:25



4 S-302 SECTION 1:25



8 S-302 SECTION 1:15



11 S-302 DETAIL 1:5

DISCLAIMER:

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: ᐃᖃᓗᐃᑦ Iqaluit CITY OF IQALUIT

CLIENT REF. #:

PROJECT: IQALUIT WATER TREATMENT PLANT

PROJECT NO: 211-12497-00

DATE: 2021/11/23

wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

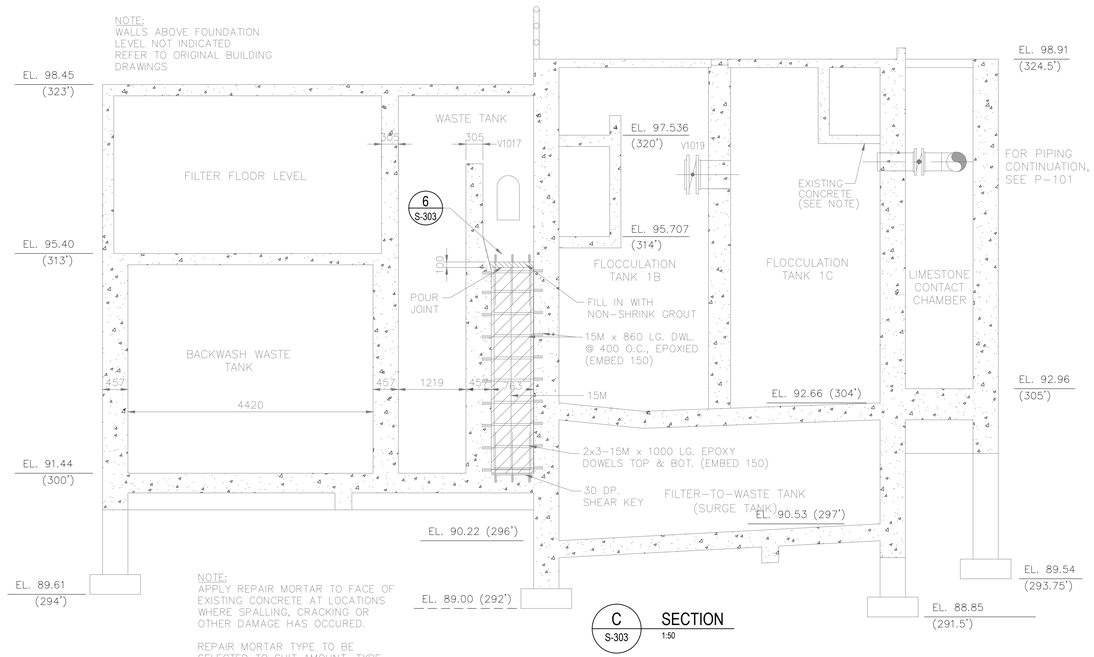
TITLE: SECTIONS & DETAILS

SHEET NUMBER: S-302

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: STRUCTURAL

ISSUE: UPDATED SKETCHES 2022/05/20

REV #: -

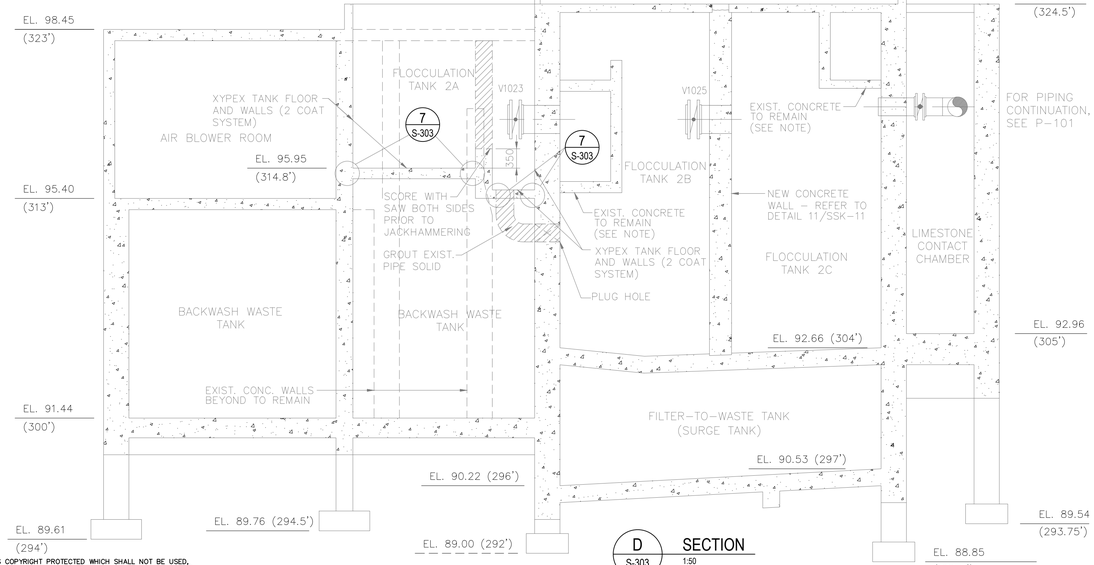


C S-303 SECTION 1:50

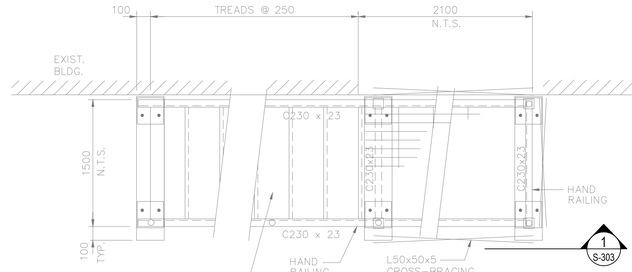
NOTE:
APPLY REPAIR MORTAR TO FACE OF EXISTING CONCRETE AT LOCATIONS WHERE SPALLING, CRACKING OR OTHER DAMAGE HAS OCCURED.

REPAIR MORTAR TYPE TO BE SELECTED TO SUIT AMOUNT, TYPE, DEPTH OF REPAIR, AND TO BE ACCEPTABLE FOR USE IN POTABLE WATER RESERVOIR.

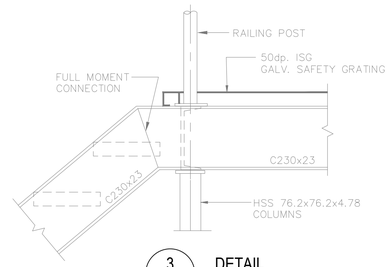
RECEIVE ENGINEER'S APPROVAL OF MORTAR PRODUCT PROIR TO PROCEEDING.



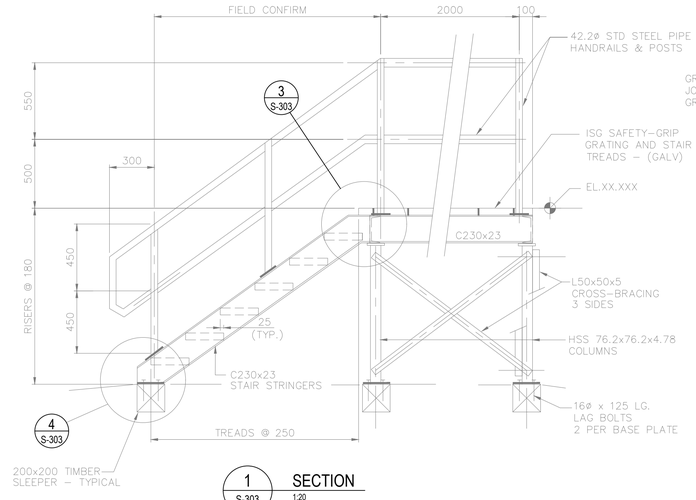
D S-303 SECTION 1:50



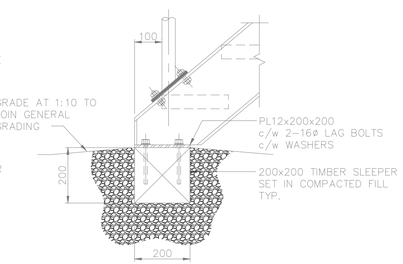
2 S-303 PLAN 1:20



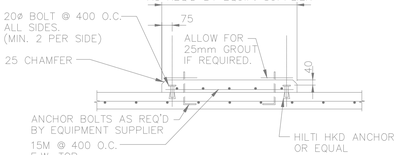
3 S-303 DETAIL 1:10



1 S-303 SECTION 1:20

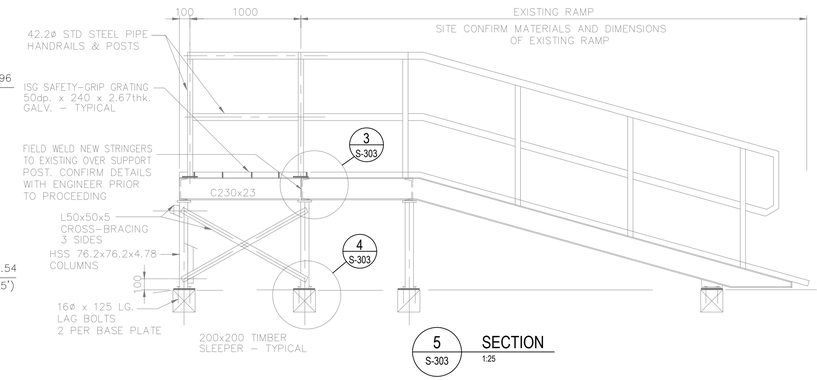


4 S-303 DETAIL 1:10

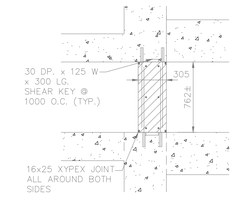


UP TO 100 mm THICK

TYPICAL HOUSEKEEPING PADS
1:20



5 S-303 SECTION 1:25



6 S-303 DETAIL NTS

7 S-303 DETAIL NTS

2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY
IS	RE	DATE	DESCRIPTION

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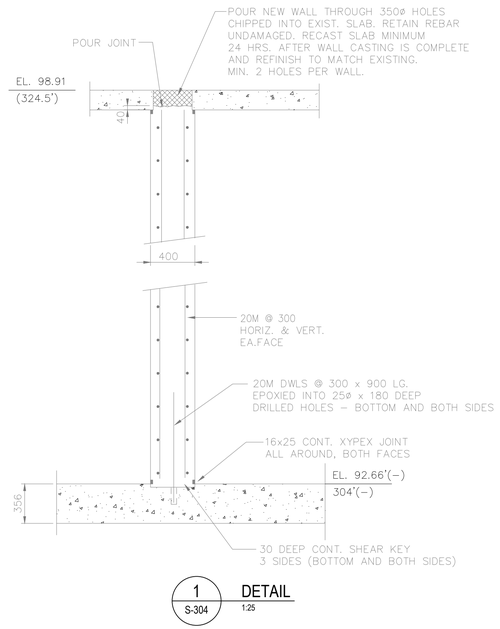
PHONE: 204-477-6650 FAX : 204-474-2864
WWW.WSP.COM

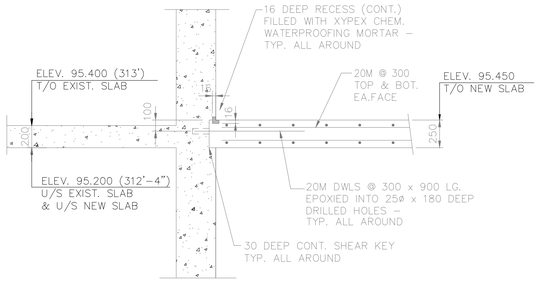
ORIGINAL SCALE: AS NOTED

TITLE: SECTIONS & DETAILS
SHEET NUMBER: S-303

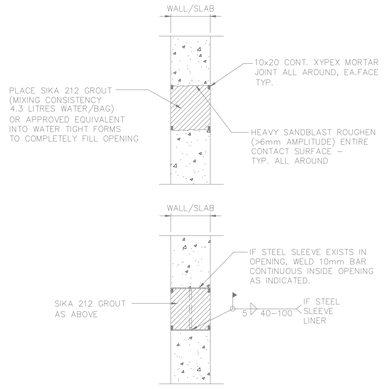
DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: STRUCTURAL
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



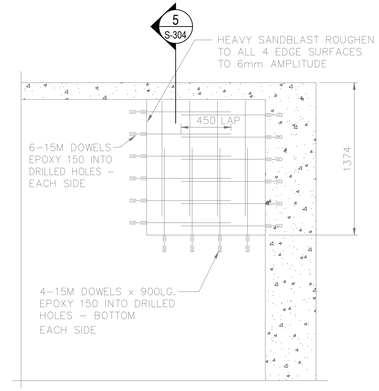
1 S-304 DETAIL 1:25



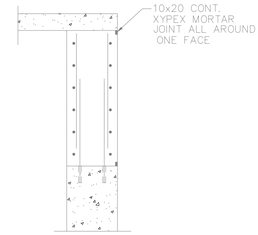
2 S-304 DETAIL 1:25



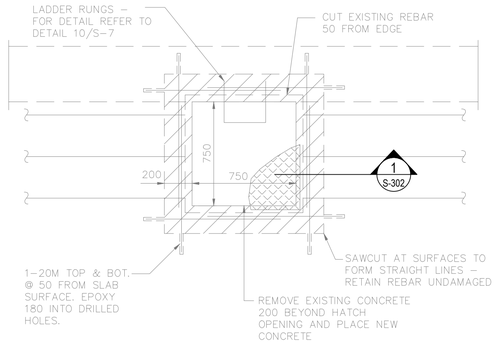
3 S-304 WALL/SLAB CLOSURE DETAIL FOR HOLES <410mm O/C 1:20



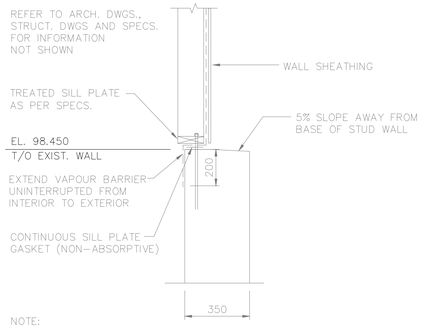
4 S-304 WALL CLOSURE DETAIL 1:25



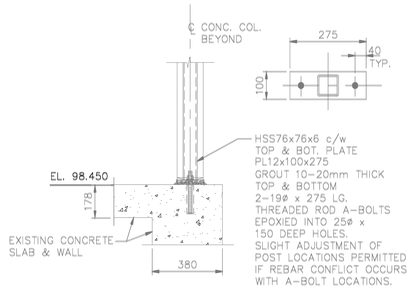
5 S-304 SECTION 1:25



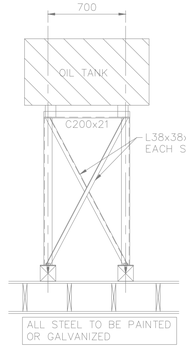
6 S-304 NEW ACCESS DETAIL 1:20



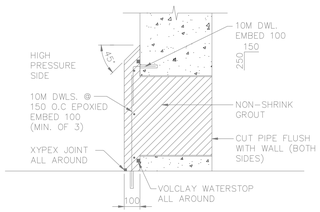
7 S-304 DETAIL 1:15



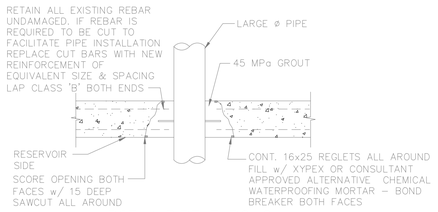
8 S-304 SECTION 1:15

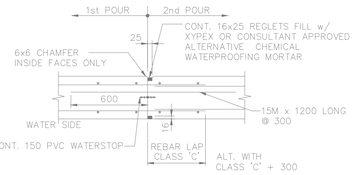


9 S-304 SECTION 1:25



- S-304 PLUG DETAIL FOR EXISTING PIPE NTS





- S-304 WALL CONSTR. JOINT DETAIL NTS

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: ᐃᖃᓗᐃᑦ iqaluit CITY OF IQALUIT

CLIENT REF. #:

PROJECT: IQALUIT WATER TREATMENT PLANT

PROJECT NO: 211-12497-00

DATE: 2021/11/23

wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

TITLE: SECTIONS & DETAILS

SHEET NUMBER: S-304

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: STRUCTURAL
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -

PLUMBING

DIRECTION OF FLOW	
SANITARY ABOVE SLAB	SAN
BELOW SLAB	SAN
STORM ABOVE SLAB	ST
BELOW SLAB	ST
VENT	V
DOMESTIC COLD WATER	
DOMESTIC HOT WATER	
DOMESTIC HOT WATER RECIRC.	
LOW PRESSURE NATURAL GAS	G
MEDIUM PRESSURE NATURAL GAS	MG
OIL VENT	OV
HOSE BIBB	HB
CLEANOUT PLUG	CO
FLOOR	CO
RUNNING TRAP	
FLOOR DRAIN	FD
FUNNEL FLOOR DRAIN	FFD
HUB DRAIN	HD
ROOF/AREA DRAIN	RD/AD
RAIN WATER LEADER	RWL
FUEL OIL FILL	FO
FUEL OIL SUPPLY	FOS
RETURN	FOR
SPRINKLER LINE	SP

SPRINKLER HEAD UPRIGHT	○
PENDANT	●
SIDEWALL	◀
DRY	⊗
FLUSH	▣

FIRE LINE	F
FIRE HOSE CABINET	FHC
FIRE EXTINGUISHER	FE
GLYCOL SUPPLY	GLYS
RETURN	GLYR

PLUMBING FIXTURE TAG

WATER CLOSET	WC
LAVATORY	L
URINAL	U
SINK	SK
MOP/JANITOR SINK	MS

TYPE – NUMBER

EQUIPMENT FIXTURE TAG

FANS SUPPLY	SF
RETURN	RF
EXHAUST	EF
PREHEAT COILS	PHC
REHEAT COILS	RHC
COOLING COILS	CC
HEATING COILS	HC
UNIT HEATER	UH
PUMP	P
TANK	TK
HEAT EXCHANGER	HE
DOMESTIC WATER HEATER	DWH
BOILER	B
AIR CONDITIONER UNIT	ACU
AIR HANDLING UNIT	AHU
CABINET UNIT HEATER	CUH

TYPE – NUMBER

PIPE FITTINGS

PIPE ANCHOR & GUIDES
EXPANSION JOINT
AIR VENT MANUAL (MAV)
AUTOMATIC (AAV)
AQUA–STAT (AS)
FLOW SWITCH (FS)
PRESSURE SWITCH (PS)
THERMOMETER & WELL
PRESSURE GUAGE & TAP
FLOW METER (M)
PIPE RISE
PIPE DROP
PIPE TOP TAKE–OFF
PIPE BOTTOM TAKE–OFF
SIMPLE CONNECTION
PIPE CAP
PIPE CONTINUATION
GATE VALVE
GLOBE VALVE
BALANCING VALVE
CHECK VALVE
PRESSURE REDUCING VALVE
3–WAY CONTROL VALVE
2–WAY CONTROL VALVE
BALL VALVE
GAS COCK
SOLENOID VALVE (S)
STRAINER (IN–LINE)
STRAINER (BLOW–OFF)
BUCKET STRAINER
UNION
BUTTERFLY VALVE
FLOAT & THERMOSTATIC TRAP
BUCKET TRAP
THERMODYNAMIC TRAP
SUPERVISED ISOLATION VALVE (S)
SUPERVISED ZONE VALVE (S)
COMBINATION STRAINER/ SUCTION GUIDE
FLOTREX CHECK/SHUT–OFF VALVE
FLOW CONTROL REGULATOR
RELIEF VALVE
O.S. & Y VALVE
NEEDLE VALVE
BACKWATER VALVE
VACUUM BREAKER
CONCENTRIC REDUCER
ECCENTRIC REDUCER
DOUBLE CHECK BACKFLOW PREVENTOR
REDUCED PRESSURE BFP
LOCKSHIELD VALVE
SUCTION DIFFUSER
CIRCUIT BALANCING VALVE
ALARM CHECK VALVE
ECCENTRIC PLUG VALVE (BALANCING VALVE)
PUMP (SCHEMATIC)

AIR DISTRIBUTION

SUPPLY AIR (S/A)
RETURN AIR (R/A)
EXHAUST AIR (E/A)
OUTSIDE AIR (O/A)
BALANCING DAMPER
BACKDRAFT DAMPER (B)
FIRE DAMPER (F)
SMOKE DAMPER (S)
FIRE/SMOKE DAMPER (FS)
MOTORIZED DAMPER (M)
TURNING VANES
ACCOUSTIC LINED DUCTWORK
EXTERNAL INSULATION
FLEXIBLE DUCTWORK
THERMOSTAT (T)
HUMIDISTAT (H)
CARBON DIOXIDE DETECTOR (CO)
DIFFERENTIAL PRESSURE SENSOR (S)
FREEZE STAT (Fz)
DOOR UNDERCUT (U/C)
DOOR GRILLE c/w SIZE

DUCT DIMENSIONING

ROUND DUCT 300
RECTANGULAR DUCT 300x200
SINGLE LINE DUCT REPRESENTATION 300x200
DUCTWORK TO BE REMOVED

NOTE: WHERE '300' IS THE VISIBLE DIMENSION

AIR OUTLET TAG

SUPPLY	S
RETURN	R
EXHAUST	E
TRANSFER	T
LOUVRE	L

TYPE
SIZE (mm)
FLOW (L/s)

RADIATION / RADIANT PANEL TAG

TYPE
LENGTH (mm)
OUTPUT (WATTS)

REVISION TAG

REVISION NUMBER

1 / M-001 MECHANICAL LEGEND
NTS

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: ᐃᖃᓗᐃᑦ Iqaluit CITY OF IQALUIT
CLIENT REF. #:

PROJECT: IQALUIT WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
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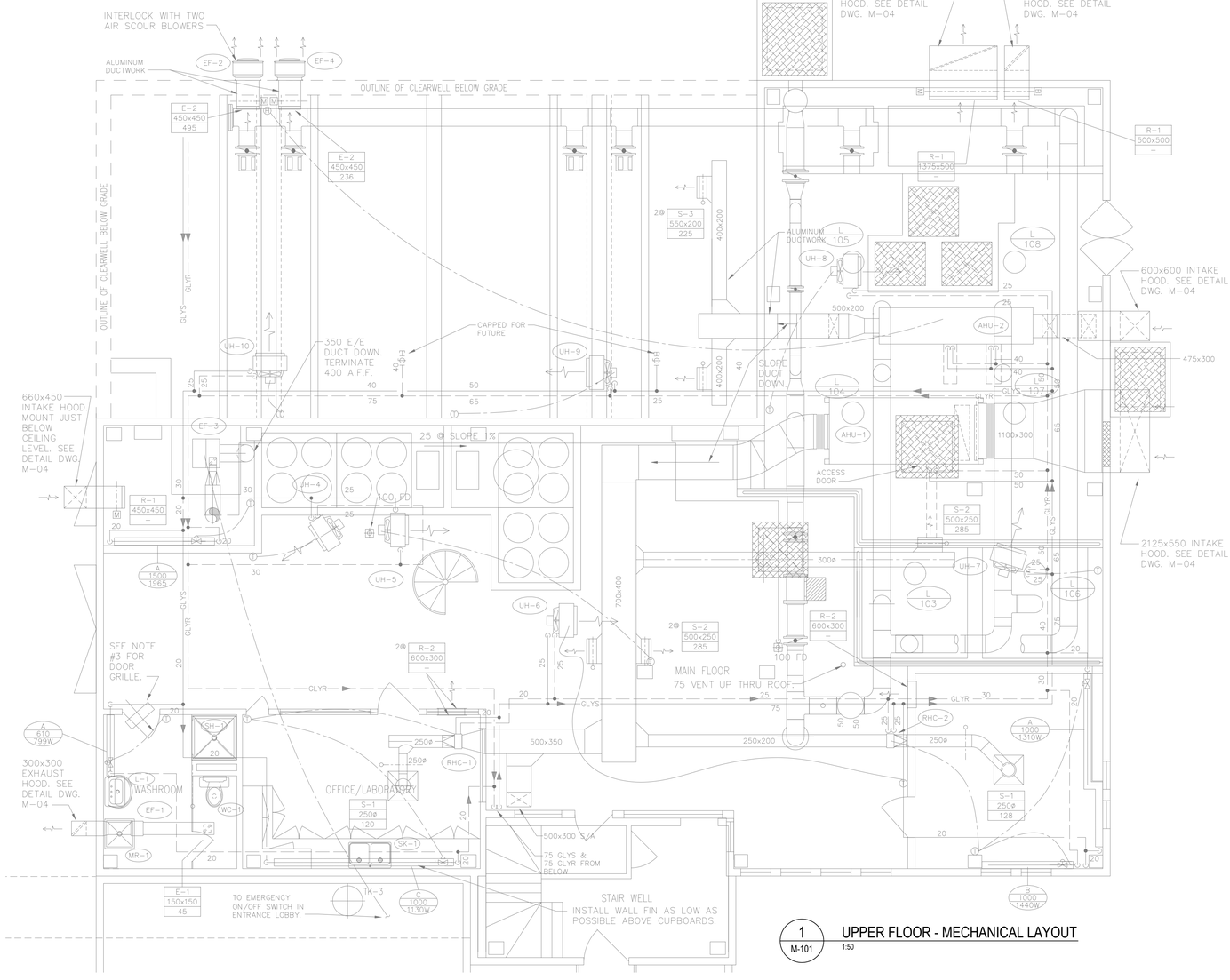
wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX: 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

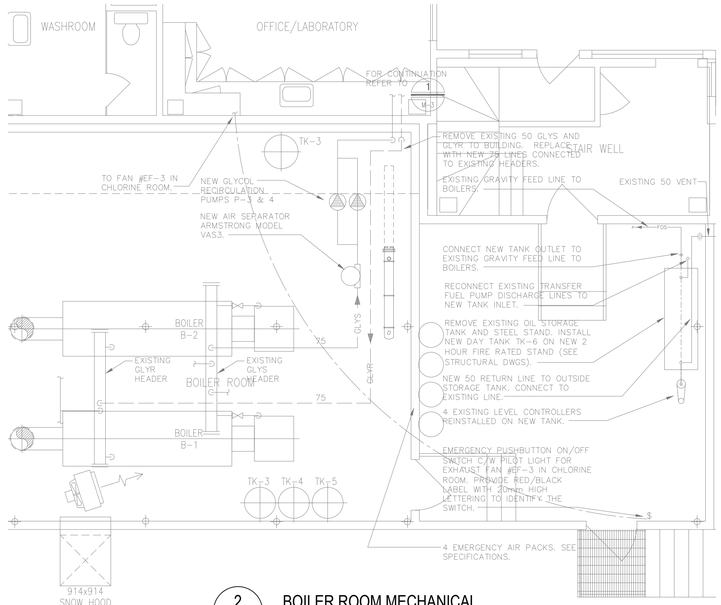
TITLE: LEGEND

SHEET NUMBER: M-001

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: MECHANICAL
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



1 M-101 UPPER FLOOR - MECHANICAL LAYOUT
1:50



2 M-101 BOILER ROOM MECHANICAL
1:50

NOTE:
1. FIELD RUN NEW HEATING PIPES TO PREVENT INTERFERENCE WITH NEW PROCESS PIPING.
2. INSTALL ALL THERMOSTATS ON BRACKETS MIN. 50 CLEAR OF THE WALL.
3. 400x250 DOOR GRILLE. E.H. PRICE SERIES "ATGH", BORDER STYLE "BF", FINISH "B15".

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: ᐃᖃᓗᐃᑦ Iqaluit
CITY OF IQALUIT
CLIENT REF. #:

PROJECT:
IQALUIT
WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

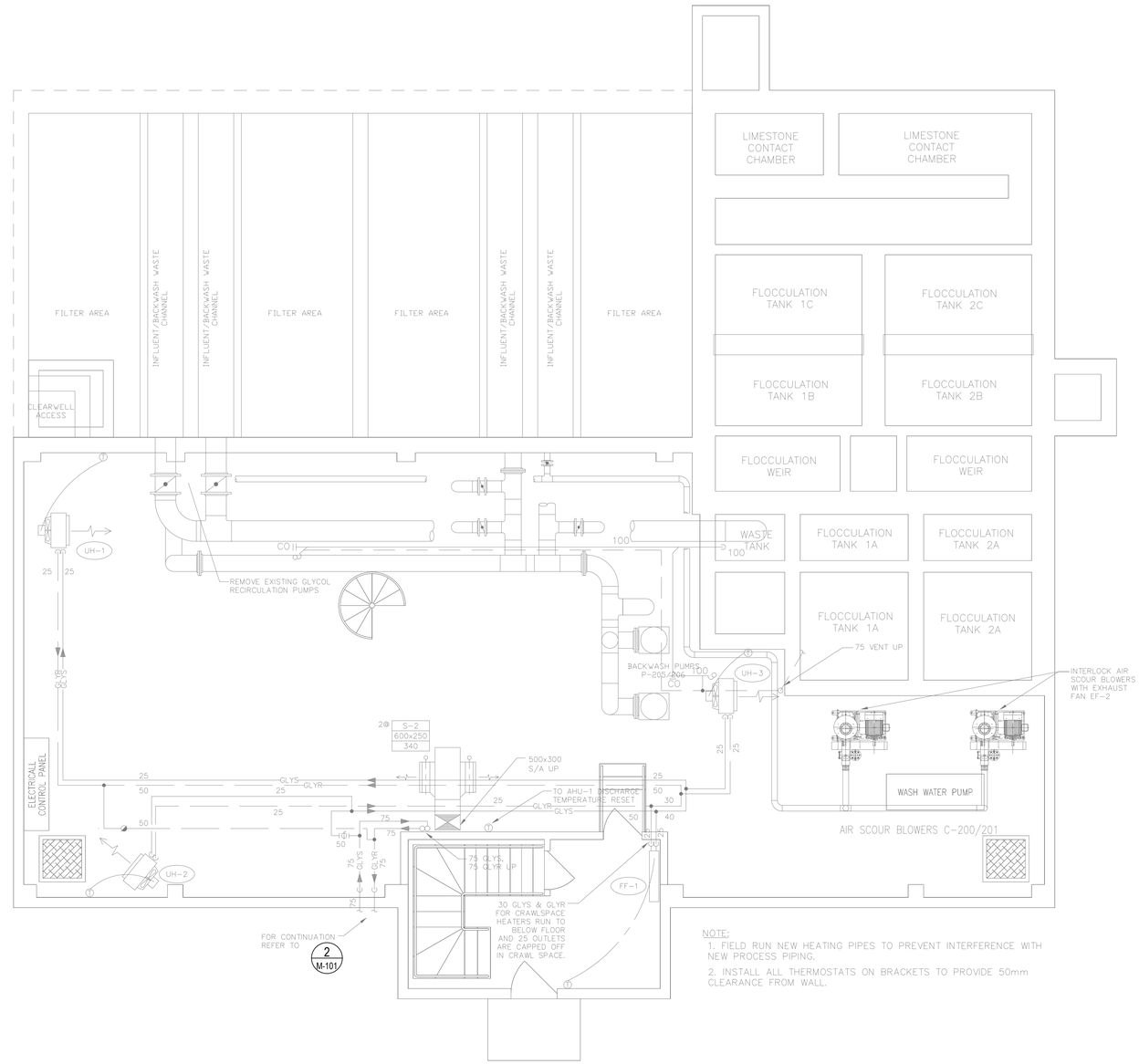
wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

TITLE: UPPER FLOOR MECHANICAL LAYOUT

SHEET NUMBER: M-101

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: MECHANICAL
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



NOTE:

1. FIELD RUN NEW HEATING PIPES TO PREVENT INTERFERENCE WITH NEW PROCESS PIPING.
2. INSTALL ALL THERMOSTATS ON BRACKETS TO PROVIDE 50mm CLEARANCE FROM WALL.

1 / M-102 LOWER FLOOR - MECHANICAL PLAN

1:50

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: ᐃᖃᓗᐃᑦ Iqaluit CITY OF IQALUIT

CLIENT REF. #:

PROJECT: IQALUIT WATER TREATMENT PLANT

PROJECT NO: 211-12497-00

DATE: 2021/11/23

wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

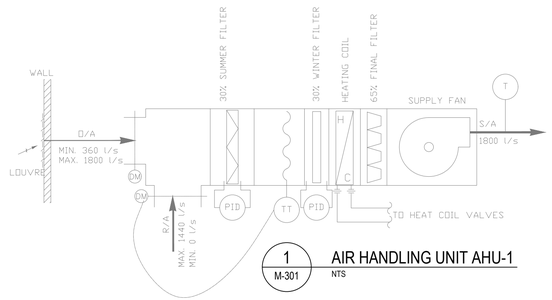
TITLE: LOWER FLOOR MECHANICAL LAYOUT

SHEET NUMBER: M-102

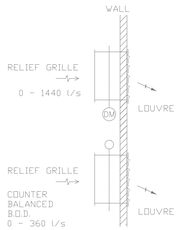
DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: MECHANICAL

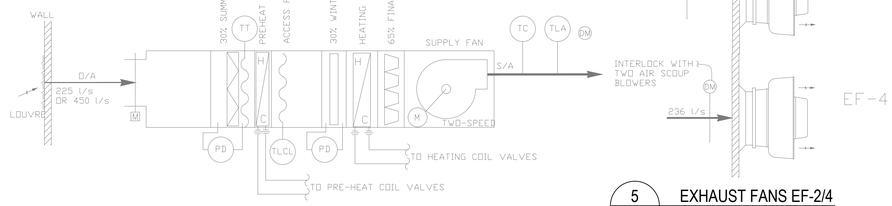
ISSUE: UPDATED SKETCHES 2022/05/20

REV #: -



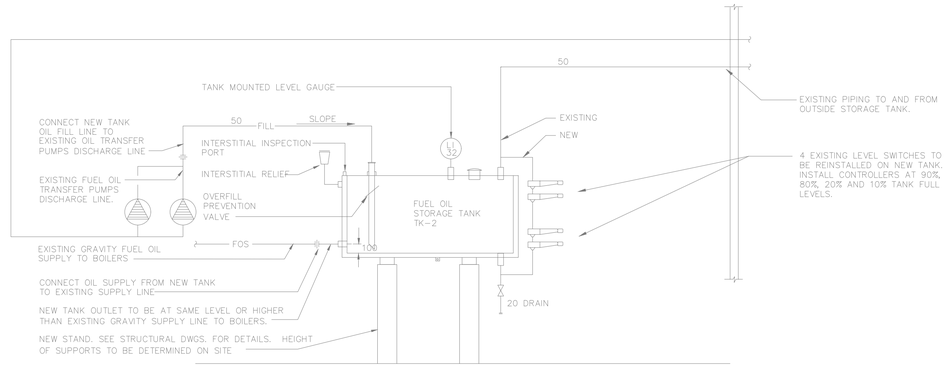
1 M-301 AIR HANDLING UNIT AHU-1
NTS



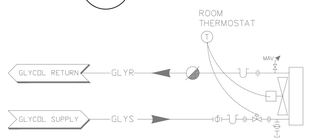


2 M-301 AIR HANDLING UNIT AHU-2
NTS

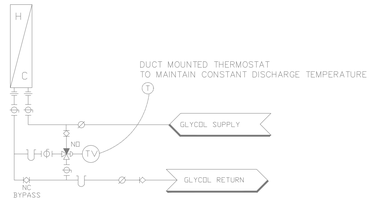
5 M-301 EXHAUST FANS EF-2/4
NTS



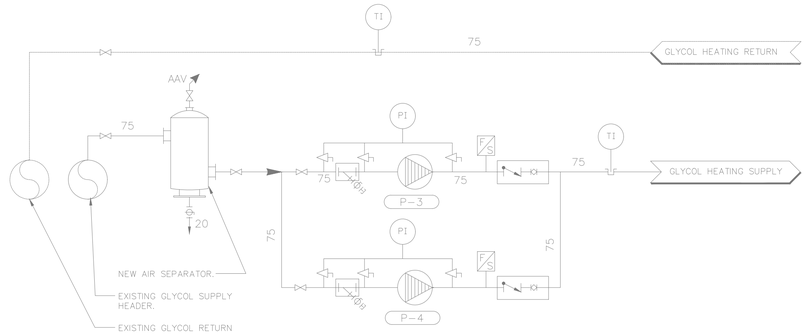
8 M-301 NEW FUEL OIL DAY TANK
NTS



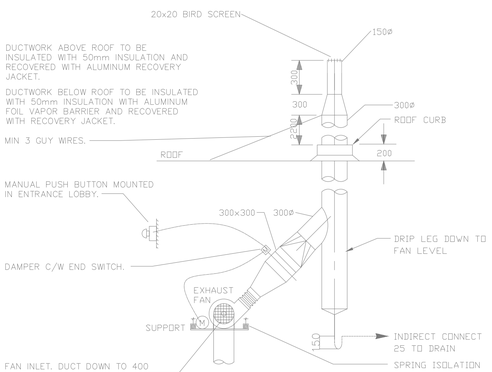
3 M-301 TYPICAL UNIT HEATER & FORCE FLOW SCHEMATIC
NTS



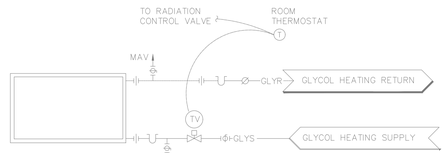
6 M-301 TYPICAL AHU HEATING AND PREHEAT COILS SCHEMATIC
NTS



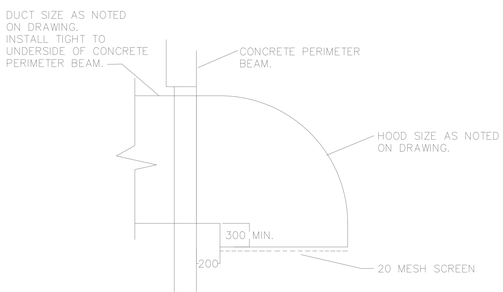
9 M-301 NEW HEATING PUMP SCHEMATIC
NTS



4 M-301 EXHAUST FAN EF-3
NTS



7 M-301 REHEAT COIL
NTS



10 M-301 TYPICAL INLET HOOD
NTS

DISCLAIMER:

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: ᐃᖃᓗᐃᑦ iqaluit
CITY OF IQALUIT
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PROJECT:
IQALUIT
WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

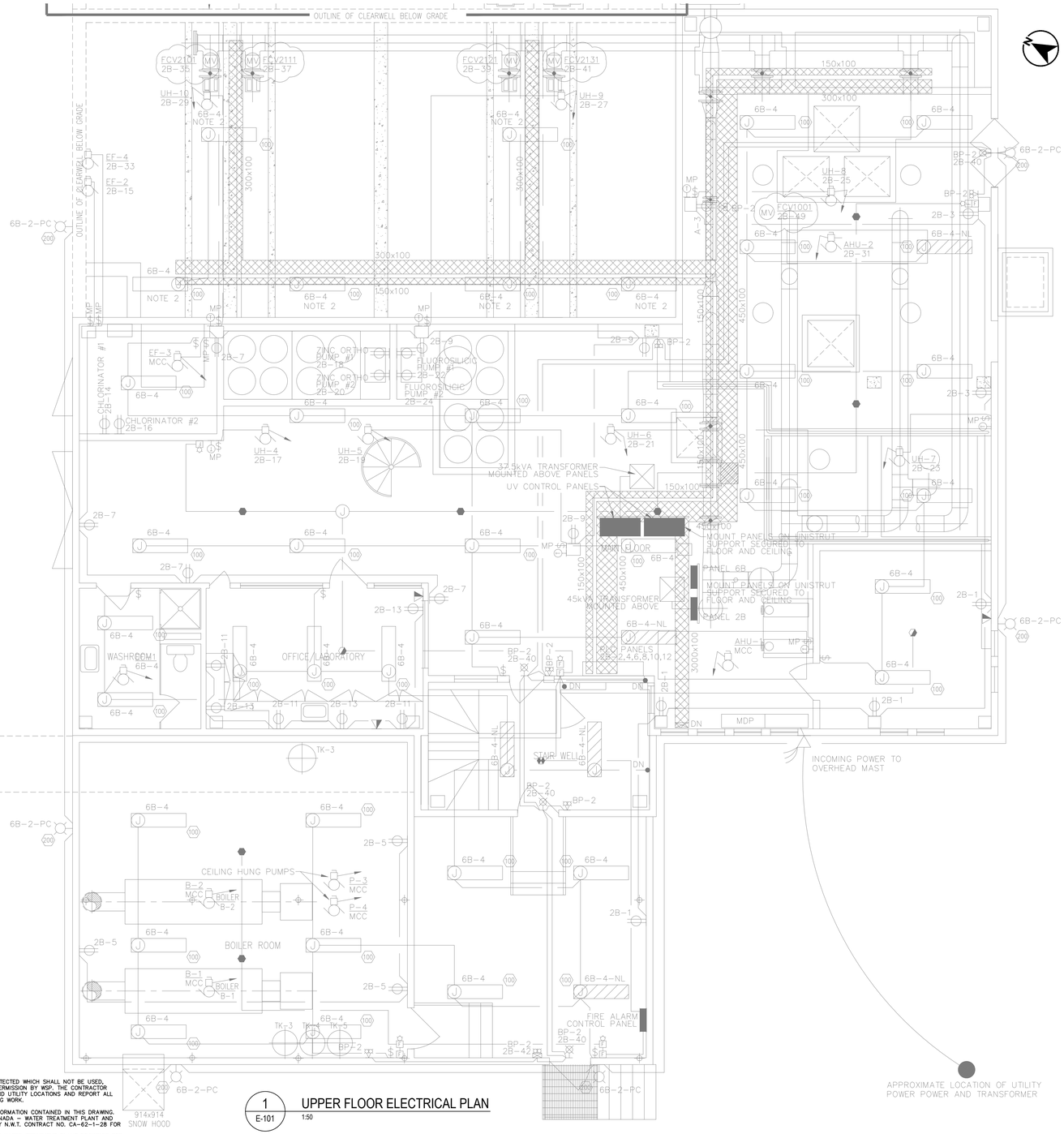
wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

TITLE: SCHEMATICS AND DETAILS

SHEET NUMBER: M-301

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: MECHANICAL
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



1 E-101 UPPER FLOOR ELECTRICAL PLAN
1:50

ELECTRICAL LEGEND

- COMPACT FLUORESCENT OR H.I.D. LUMINAIRE – WALL MOUNTED
- WALL MOUNTED EXIT LIGHT – DIRECTIONAL ARROWS AS INDICATED
- FLUORESCENT LUMINAIRE – SURFACE MOUNTED OR SUSPENDED
- NL INDICATES NIGHT LIGHT
- PHOTO ELECTRIC CELL
- BATTERY PACK C/W HEADS AS INDICATED
- EMERGENCY REMOTE HEADS
- SINGLE POLE SWITCH
- (#) LUMINAIRE TYPE
- DUPLEX RECEPTACLE
- MOTOR
- (MV) MOTORIZED VALVE
- DISCONNECT SWITCH
- M MANUAL MOTOR STARTER C/W PILOT LIGHT
- MAGNETIC MOTOR STARTER
- THERMOSTAT
- PANELBOARD
- (F) MANUAL BREAKGLASS STATION
- FIRE ALARM HORN C/W VISUAL ALARM STROBE
- SMOKE DETECTOR
- THERMAL DETECTOR – RATE OF RISE
- THERMAL DETECTOR – HIGH TEMPERATURE FIXED
- COMBINATION VOICE/DATA OUTLET BOX AND JACKS

NOTES

1. REFER TO MOTOR SCHEDULE FOR CONDUIT AND WIRE SIZES
2. CENTER LIGHT FIXTURE OVER CATWALK

PANEL 2B

DESCRIPTION	KW	BKR.	CIRCUIT NO.	BKR.	KW	DESCRIPTION
RECEPTACLES PLANT/FOYER		1P15A	1 2	1P15A		PLC PANELS
RECEPTACLES PLANT		1P15A	3 4	1P15A		PLC PANELS
RECEPTACLES MECH ROOM		1P15A	5 6	1P15A		PLC PANELS
RECEPTACLES PLANT		1P15A	7 8	1P15A		PLC PANELS
RECEPTACLES PLANT		1P15A	9 10	1P15A		PLC PANELS
RECEPTACLES OFFICE/LAB		1P15A	11 12	1P15A		PLC PANELS
RECEPTACLES OFFICE/LAB		1P15A	13 14	1P15A		CHLORINATOR #1
EXHAUST FAN EF-2		1P15A	15 16	1P15A		CHLORINATOR #2
UNIT HEATER UH-4		1P15A	17 18	1P15A		ZINC ORTHO PUMP #1
UNIT HEATER UH-5		1P15A	19 20	1P15A		ZINC ORTHO PUMP #2
UNIT HEATER UH-6		1P15A	21 22	1P15A		FLUOROSILICIC PUMP #1
UNIT HEATER UH-7		1P20A	23 24	1P15A		FLUOROSILICIC PUMP #2
UNIT HEATER UH-8		1P15A	25 26	1P15A		FIRE ALARM PANEL
UNIT HEATER UH-9		1P15A	27 28	1P15A		LIGHTING CONTACTOR
UNIT HEATER UH-10		1P15A	29 30	1P15A		SPARE
HVAC CONTROL		1P15A	31 32	1P15A		SPARE
EXHAUST FAN EF-4		1P15A	33 34	1P15A		SPARE
MOTORIZED VALVE FCV 2101		1P15A	35 36	1P15A		SPARE
MOTORIZED VALVE FCV 2111		1P15A	37 38	1P15A		SPARE
MOTORIZED VALVE FCV 2121		1P15A	39 40	1P15A		EXIT LIGHTING
MOTORIZED VALVE FCV 2131		1P15A	41 42	1P15A		BATTERY PACK BP-2
MOTORIZED VALVE FCV 4011		1P15A	43 44	1P15A		SPARE
MOTORIZED VALVE FCV 4001		1P15A	45 46	1P15A		SPARE
MOTORIZED VALVE FCV 2501		1P15A	47 48	1P15A		SPARE
MOTORIZED VALVE FCV 1001		1P15A	49 50	1P15A		SPARE
			51 52			
			53 54			
			55 56			
			57 58			
			59 60			
TOTAL						TOTAL

MAINS: 225A
MOUNTING: SURFACE
ENCLOSURE TO BE SINGLE TUB
VOLTS: 120/208 VOLTS
LOCATION: UPPER FLOOR
FED FROM: MDP
ENTER AT: TOP

PANEL 6B

DESCRIPTION	KW	BKR.	CIRCUIT NO.	BKR.	KW	DESCRIPTION
AIR HANDLING UNIT AHU-2		1P15A	1 2	1P15A		LIGHTING EXTERIOR/BASEMENT
AIR HANDLING UNIT AHU-2		1P15A	3 4	1P15A		LIGHTING UPPER FLOOR
AIR HANDLING UNIT AHU-2		1P15A	5 6	1P15A		SPARE
SPARE		1P15A	7 8	1P15A		SPARE
SPARE		1P15A	9 10			
			11 12			
			13 14			
			15 16			
			17 18			
			19 20			
			21 22			
			23 24			
TOTAL						TOTAL

MAINS: 225A
MOUNTING: SURFACE
VOLTS: 347/600 VOLTS
LOCATION: UPPER FLOOR
FED FROM: MDP
ENTER AT: TOP

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: ᐃᖃᓗᐃᑦ Iqaluit CITY OF IQALUIT
CLIENT REF. #:

PROJECT: IQALUIT WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX: 204-474-2864
WWW.WSP.COM

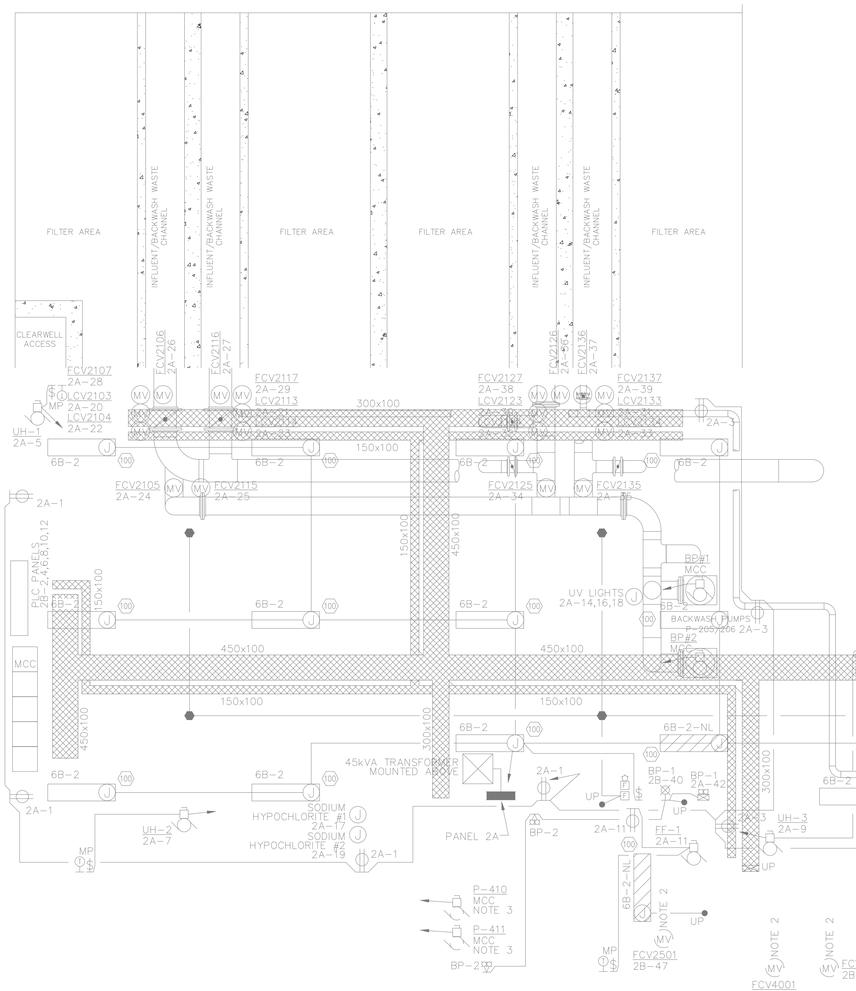
ORIGINAL SCALE: AS NOTED

TITLE: UPPER FLOOR ELECTRICAL PLAN AND SCHEDULES
SHEET NUMBER: E-101

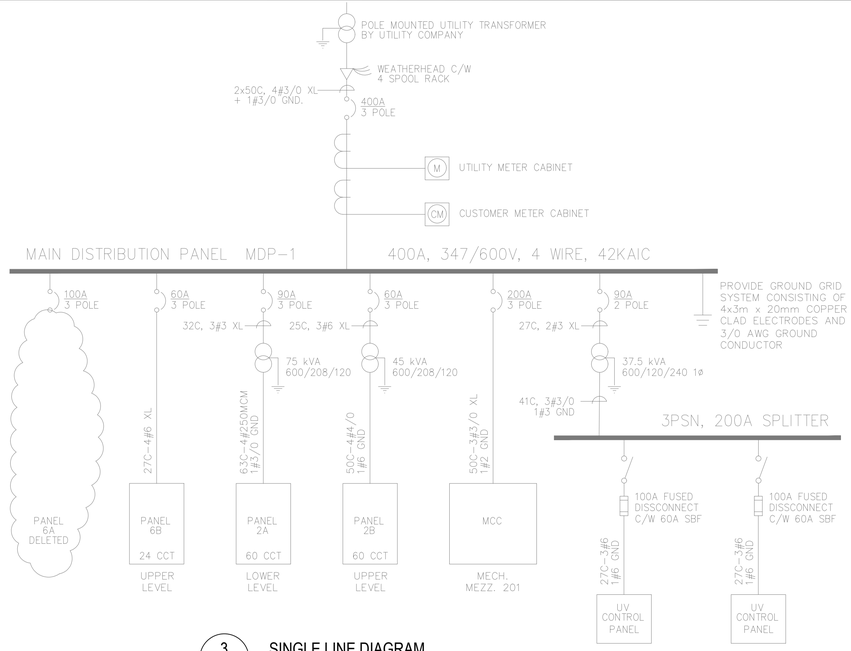
DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: ELECTRICAL
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -

NOTES

1. REFER TO MOTOR SCHEDULE FOR CONDUIT AND WIRE SIZES FOR ALL MOTORS.
2. MOTORIZED VALVE LOCATED ON CLEARWELL FLOOR LEVEL. CONFIRM EXACT LOCATION PRIOR TO ROUGHIN.
3. PUMPS LOCATED ON CLEARWELL FLOOR LEVEL. CONFIRM EXACT LOCATION PRIOR TO ROUGHIN.
4. SUPPLY CIRCUIT (2A-13 FOR LIGHTING AND 2A-15 FOR POWER AND FRACTIONAL MOTORS) TO EXISTING LIGHTING LOCATED ON CLEARWELL LEVEL. PROVIDE ALL REQUIREMENTS ASSOCIATED WITH MAKING POWER AND LIGHTING CONNECTIONS.



2 E-102 LOWER FLOOR - ELECTRICAL PLAN
1:50



3 E-102 SINGLE LINE DIAGRAM
NTS

PANEL 2A

DESCRIPTION	KW	BKR.	CIRCUIT NO.	BKR.	KW	DESCRIPTION
RECEPTACLES LOWER LEVEL		1P15A	1 2	1P15A		PLC PANELS
RECEPTACLES LOWER LEVEL		1P15A	3 4	1P15A		PLC PANELS
UNIT HEATER UH-1		1P15A	5 6	1P15A		PLC PANELS
UNIT HEATER UH-2		1P15A	7 8	1P15A		PLC PANELS
UNIT HEATER UH-3		1P15A	9 10	1P15A		PLC PANELS
FORCE FLOW FF-1 RECEPTACLES-STAIRS		1P15A	11 12	1P15A		PLC PANELS
LIGHTING CLEARWELL LEVEL		1P15A	13 14	1P60A	14	PANEL
RECEPT./FRAC. MOTORS CLEARWELL LEVEL		1P15A	15 16	1P60A	16	MECHANICAL ROOM
SODIUM HYPOCHLORITE #1		1P15A	17 18	1P15A		SPARE
SODIUM HYPOCHLORITE #2		1P15A	19 20	1P15A		MOTORIZED VALVE LCV 2103
MOTORIZED VALVE LCV 2113		1P15A	21 22	1P15A		MOTORIZED VALVE LCV 2104
MOTORIZED VALVE LCV 2114		1P15A	23 24	1P15A		MOTORIZED VALVE FCV 2105
MOTORIZED VALVE FCV 2115		1P15A	25 26	1P15A		MOTORIZED VALVE FCV 2106
MOTORIZED VALVE FCV 2116		1P15A	27 28	1P15A		MOTORIZED VALVE FCV 2107
MOTORIZED VALVE FCV 2117		1P15A	29 30	1P15A		MOTORIZED VALVE FCV 2123
MOTORIZED VALVE FCV 2133		1P15A	31 32	1P15A		MOTORIZED VALVE FCV 2124
MOTORIZED VALVE FCV 2134		1P15A	33 34	1P15A		MOTORIZED VALVE FCV 2125
MOTORIZED VALVE FCV 2135		1P15A	35 36	1P15A		MOTORIZED VALVE FCV 2126
MOTORIZED VALVE FCV 2136		1P15A	37 38	1P15A		MOTORIZED VALVE FCV 2127
MOTORIZED VALVE FCV 2137		1P15A	39 40	1P15A		SPARE
EXISTING CCT 1 TUNNEL LIGHTS		1P15A	41 42	1P15A		BATTERY PACK BP-1
EXISTING CCT 6 TUNNEL LIGHTS		1P15A	43 44	2P		RECIRC PUMPS TO DAM
EXISTING CCT 8 TUNNEL RECEPTACLES		1P15A	45 46			
EXISTING CCT 10 EXT. LIGHTS RESERVOIR		1P15A	47 48	1P15A		SPARE
TEMPORARY BSMT. HEATER		2P	49 50			
			51 52	2P		TUNNEL HEATER
EXISTING CCT 2 TUNNEL LIGHTS		1P15A	53 54	30A		
			55 56			DAMPER MOTORS EF3
			57 58			
			59 60			
TOTAL						TOTAL

MAINS: 225A
MOUNTING: SURFACE
ENCLOSURE TO BE SINGLE TUB

VOLTS: 120/208 VOLTS
LOCATION: LOWER LEVEL
FED FROM: MDP
ENTER AT: TOP

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: CITY OF IQALUIT
CLIENT REF. #:

PROJECT: IQALUIT WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

WSP
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX: 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

TITLE: LOWER FLOOR ELECTRICAL PLAN AND SCHEDULES

SHEET NUMBER: E-102

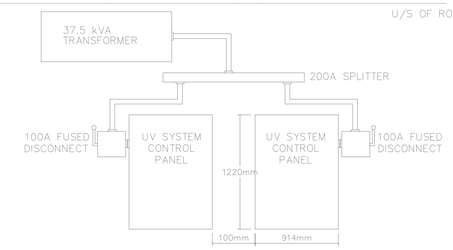
DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: ELECTRICAL
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -

MOTOR STARTER AND CONTROL SCHEDULE

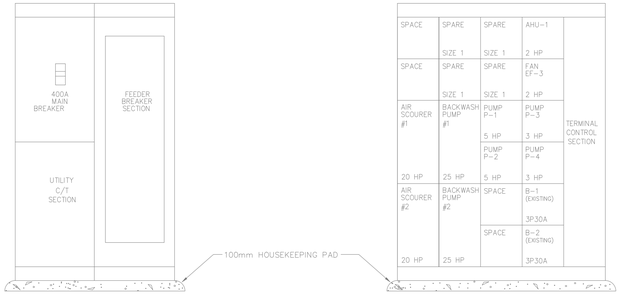
E – DIVISION 16
M – DIVISION 15
U – USERS EQUIPMENT
X – PROVIDE

1 – STOP–START
2 – ON–OFF
3 – HAND–OFF–AUTO
4 – PILOT LIGHT
5 – CONTROL RELAY
6 – TIMING RELAY
7 – DOUBLE VOLTAGE RELAY
8 – THERMISTORS
9 – ELECTRO PNEUMATIC SWITCH
10 – PNEUMATIC ELECTRO SWITCH
11 – SOLENOID
12 – MOTORIZED DAMPER
13 – FLOAT SWITCH
14 – PRESSURE SWITCH
15 – FLOW SWITCH
16 – SAIL SWITCH
17 – CONTROL TRANSFORMER
18 – THERMOSTAT
19 – INTEGRAL CONTROL PANEL
20 – FIRE ALARM SHUT DOWN
21 – FREEZE PROTECTION
22 – FIRE PROTECTION
23 – HIGH LIMIT
24 – LOW LIMIT
25 – CURRENT TRANSFORMER
26 – L.V. THERMOSTAT
27 – C.O. DETECTOR
28 – VARIABLE SPEED SW.
29 – LOW LIMIT
30 – CURRENT TRANSFORMER

EQUIPMENT No.	LOCATION	EQUIPMENT	MAGNETIC STARTER: SUPPLIED UNDER	INSTALLED UNDER	WIRED UNDER	kW	EQUIP'T RATING HP	VOLTAGE	PHASE	PANEL AND CIRCUIT No.	IN COVER: MANUAL TOGGLE	KEY	PUSH BUTTON	PILOT LIGHT	MAGNETIC	COMBINATION	REDUCED VOLTAGE	TWO SPEED	BREAKER TYPE	FUSE TYPE	CONTROL TRANS.	AUXILIARY CONTACT	IN COVER: STOP–START	ON–OFF–AUTO	HAND–OFF–AUTO ON LIGHT – RED	CSA ENCLOSURE TYPE	LEGEND ABOVE	NOTES	LOCATE AT MOTOR: SUPPLIED UNDER	INSTALLED UNDER	WIRED UNDER	DISCONNECT SWITCH	TOGGLE SWITCH	JUNCTION BOX	RECEPTACLE	WEATHER PROOF	REMOTE CONTROL: LEGEND ABOVE	NOTES	SUPPLIED UNDER	INSTALLED UNDER	WIRED UNDER	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	NOTES	SUPPLIED UNDER	INSTALLED UNDER	WIRED UNDER	LINE DIAGRAM No.	INTERLOCK WITH EQUIP. NO.	FEEDER DETAILS
AS#1	LOWER LEVEL	AIR SCOURER #1	U	U	E	14.9	20	600	3	MCC					X	X			X		X	X							E	E	E	X																		19C, 3#8 +1#10 GND
AS#2	LOWER LEVEL	AIR SCOURER #2	U	U	E	14.9	20	600	3	MCC					X	X			X		X	X							E	E	E	X																		19C, 3#8 +1#10 GND
BP#1	LOWER LEVEL	BACHWASH PUMP #1	U	U	E	18.6	25	600	3	MCC					X	X			X		X	X							E	E	E	X																		19C, 3#8 +1#10 GND
BP#2	LOWER LEVEL	BACKWASH PUMP #2	U	U	E	18.6	25	600	3	MCC					X	X			X		X	X							E	E	E	X																		19C, 3#8 +1#10 GND
P–330	UPPER LEVEL	ZINC ORTHO PUMP #1	U	U	E		.05	120	1	2B–18	X	X																																						19C, 2#12 +1#12 GND
P–331	UPPER LEVEL	ZINC ORTHO PUMP #2	U	U	E		.05	120	1	2B–20	X	X																																						19C, 2#12 +1#12 GND
	UPPER LEVEL	CHLORINATOR #1	U	U	E			120	1	2B–14	X	X																																						19C, 2#12 +1#12 GND
	UPPER LEVEL	CHLORINATOR #2	U	U	E			120	1	2B–16	X	X																																						19C, 2#12 +1#12 GND
P–360	UPPER LEVEL	FLOUROSILICIC METERING PUMP #1	U	U	E		.05	120	1	2B–22	X	X																																						19C, 2#12 +1#12 GND
P–361	UPPER LEVEL	FLOUROSILICIC METERING PUMP #2	U	U	E		.05	120	1	2B–24	X	X																																						19C, 2#12 +1#12 GND
P–362	UPPER LEVEL	SODIUM HYPOCLORITE #1	U	U	E			120	1	2A–17	X	X																																						19C, 2#12 +1#12 GND
P–363	UPPER LEVEL	SODIUM HYPOCLORITE #1	U	U	E		.05	120	1	2A–19	X	X																																						19C, 2#12 +1#12 GND
	LOWER LEVEL	UV LIGHTS	U	U	E	26		208	3	NOTE #1	X	X																																						19C, 3#8 +1#10 GND
*	NOTE #1	REFER TO SINGLE LINE DIAGRAM AND DETAIL THIS DRAWING.																																															

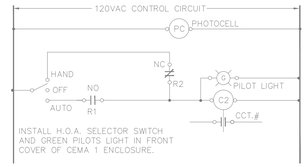


1 E-301 UV POWER SUPPLY ELEVATION
NTS

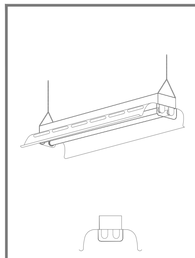


4 E-301 MDP ELEVATION
NTS

5 E-301 MCC ELEVATION
NTS



6 E-301 PEC LIGHTING CONTROL SCHEMATIC
NTS



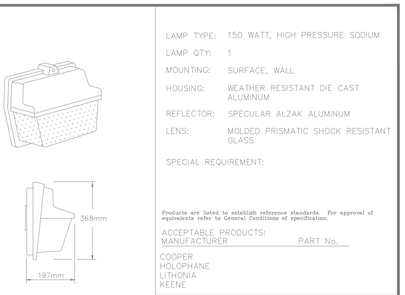
LAMP TYPE: 32 WATT, T–8, FLUORESCENT
LAMP QTY: 2
MOUNTING: SUSPENDED CEILING
HOUSING: COLD ROLLED STEEL
REFLECTOR: SLOTTED – WHITE POWDER PAINT
LENS: NONE
SPECIAL REQUIREMENT:

Products are listed to establish reference standards. For approval of equivalents refer to General Conditions of specification.

ACCEPTABLE PRODUCTS:
MANUFACTURER — PART No.
CFI
METALUX
LITHONIA

LUMINAIRE SCHEDULE — TYPE No. 100

File: FLST4–2C



LAMP TYPE: 150 WATT, HIGH PRESSURE SODIUM
LAMP QTY: 1
MOUNTING: SURFACE, WALL
HOUSING: WEATHER RESISTANT DIE CAST ALUMINUM
REFLECTOR: SPECULAR ALZAK ALUMINUM
LENS: MOLDED PRISMATIC SHOCK RESISTANT GLASS
SPECIAL REQUIREMENT:

Products are listed to establish reference standards. For approval of equivalents refer to General Conditions of specification.

ACCEPTABLE PRODUCTS:
MANUFACTURER — PART No.
COOPER
HOLOPHANE
LITHONIA
KEENE

LUMINAIRE SCHEDULE — TYPE No. 200

File: HPSWP–1A

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: CITY OF IQALUIT
CLIENT REF. #:

PROJECT: IQALUIT WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

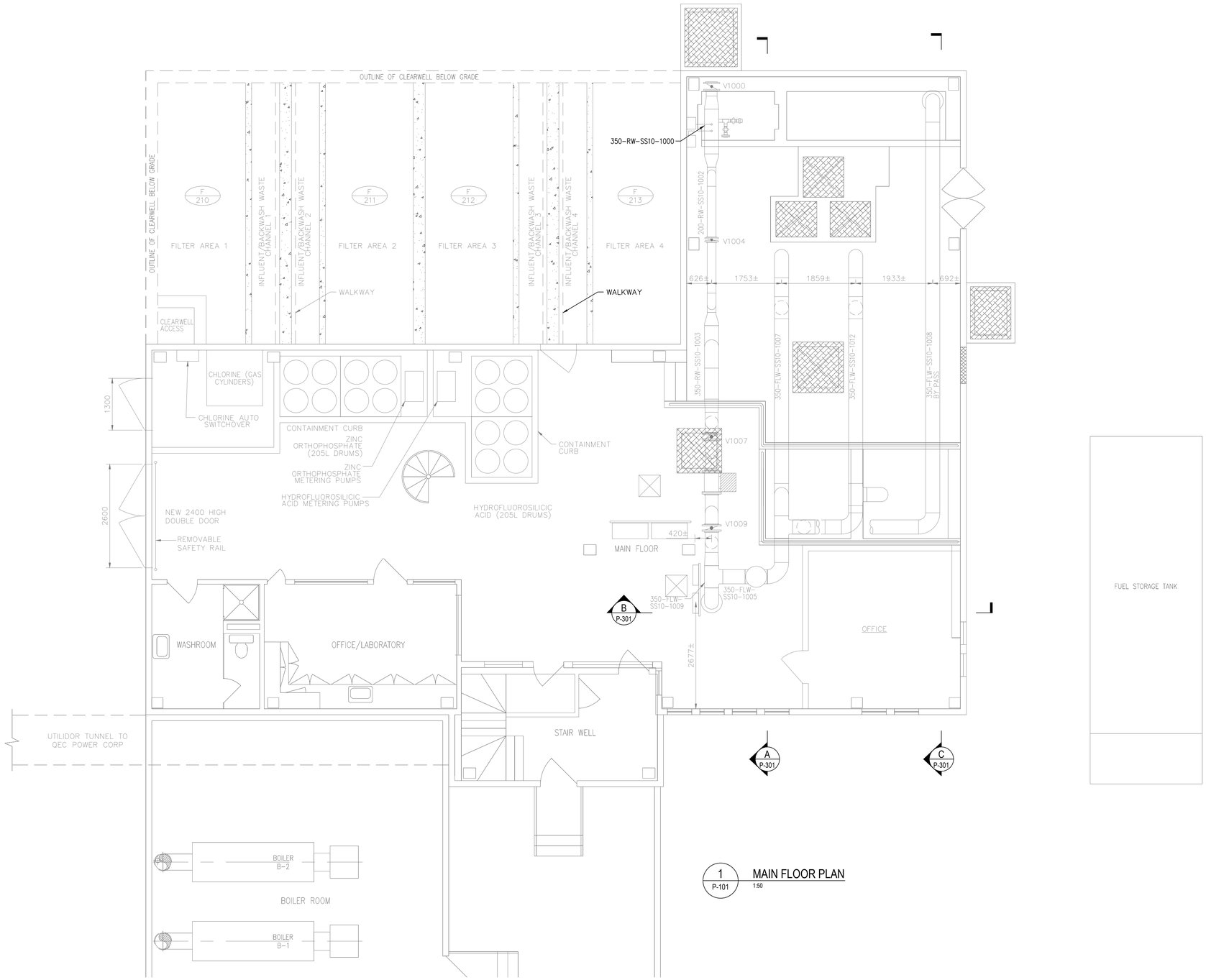
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX: 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

TITLE: MCC SCHEDULE AND DETAILS

SHEET NUMBER: E-301

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: ELECTRICAL
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



1 P-101 MAIN FLOOR PLAN
1:50

DISCLAIMER:

THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR REVISED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK.
THIS DRAWING IS NOT TO BE SCALED.
WSP IS NOT LAIBLE FOR ANY GREYED OUT INFORMATION CONTAINED IN THIS DRAWING. REFER TO DEPARTMENT OF PUBLIC WORKS CANADA – WATER TREATMENT PLANT AND WATER SUPPLY DRAWINGS FOR FROBISHER BAY N.W.T. CONTRACT NO. CA-62-1-28 FOR DETAILS DESCRIBING EXISTING STRUCTURE.
REFER TO EARTH TECH (CANADA) INC. IQALUIT WATER TREATMENT PLANT DRAWINGS FOR CITY OF IQALUIT CONTRACT NO. 55524 FOR DETAILS DESCRIBING MODIFICATIONS TO EXISTING STRUCTURE AND OTHER UPGRADES.

NOTES:

1. ALL ELEVATIONS AND DIMENSIONS ARE APPROXIMATE.

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: ᐃᖃᓗᐃᑦ iqaluit CITY OF IQALUIT
CLIENT REF. #:

PROJECT: IQALUIT WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

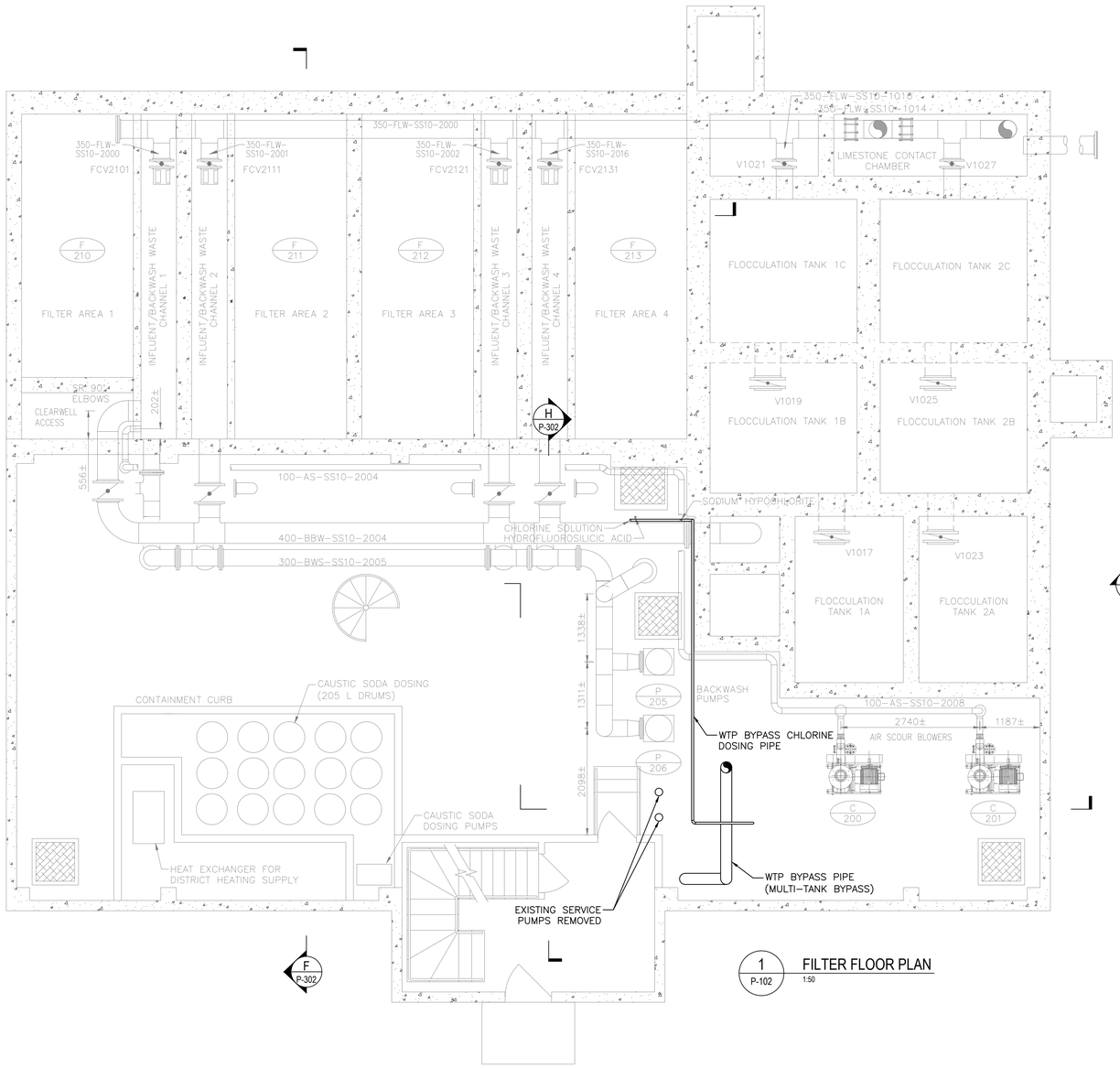
wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: 1:50

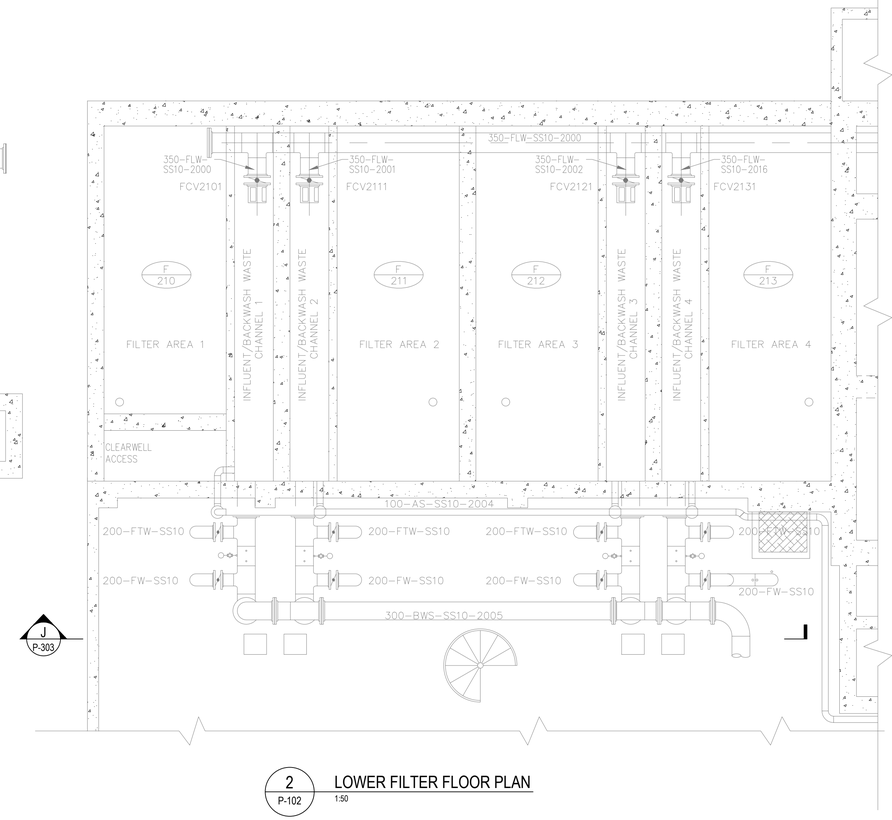
TITLE: UPPER FLOOR LAYOUT

SHEET NUMBER: P-101

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: PROCESS
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



1 P-102 FILTER FLOOR PLAN
1:50



2 P-102 LOWER FILTER FLOOR PLAN
1:50

DISCLAIMER:

THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR REVISED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK.
THIS DRAWING IS NOT TO BE SCALED.
WSP IS NOT LAIBLE FOR ANY GREYED OUT INFORMATION CONTAINED IN THIS DRAWING. REFER TO DEPARTMENT OF PUBLIC WORKS CANADA – WATER TREATMENT PLANT AND WATER SUPPLY DRAWINGS FOR FROBISHER BAY N.W.T. CONTRACT NO. CA-62-1-28 FOR DETAILS DESCRIBING EXISTING STRUCTURE.
REFER TO EARTH TECH (CANADA) INC. IQALUIT WATER TREATMENT PLANT DRAWINGS FOR CITY OF IQALUIT CONTRACT NO. 55524 FOR DETAILS DESCRIBING MODIFICATIONS TO EXISTING STRUCTURE AND OTHER UPGRADES.

NOTES:

1. ALL ELEVATIONS AND DIMENSIONS ARE APPROXIMATE.

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

PERMIT TO PRACTICE
WSP Canada Inc.
Signature _____ #L4060
Date May 20, 2022
PERMIT NUMBER: P407
NT/NU Association of Professional Engineers and Geoscientists

REGISTERED PROFESSIONAL ENGINEER — LICENSEE — May 20, 2022 — NT/NU

CLIENT: ᐃᖃᓗᐃᑦ Iqaluit — CITY OF IQALUIT
CLIENT REF. #:

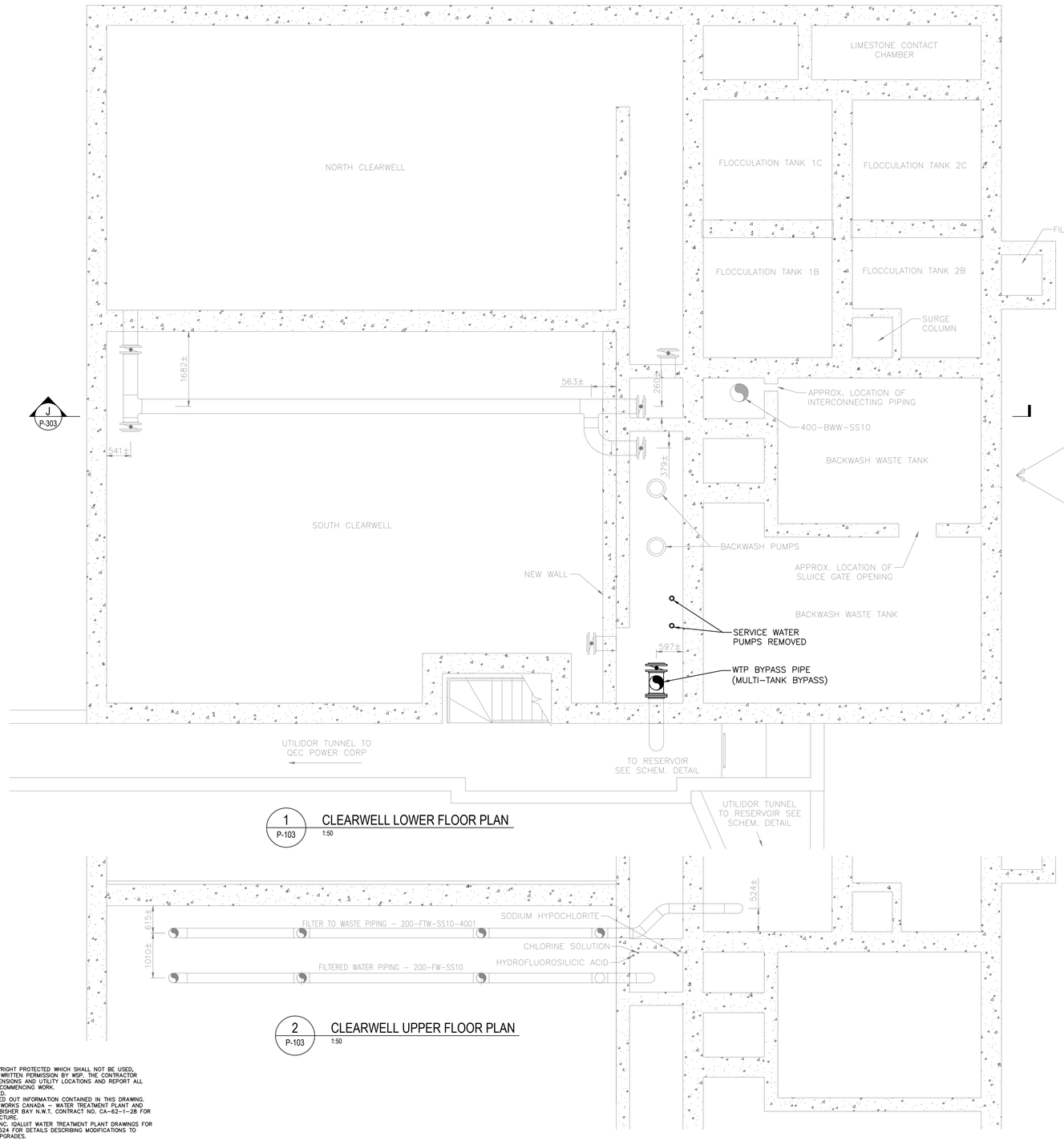
PROJECT: IQALUIT WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX: 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

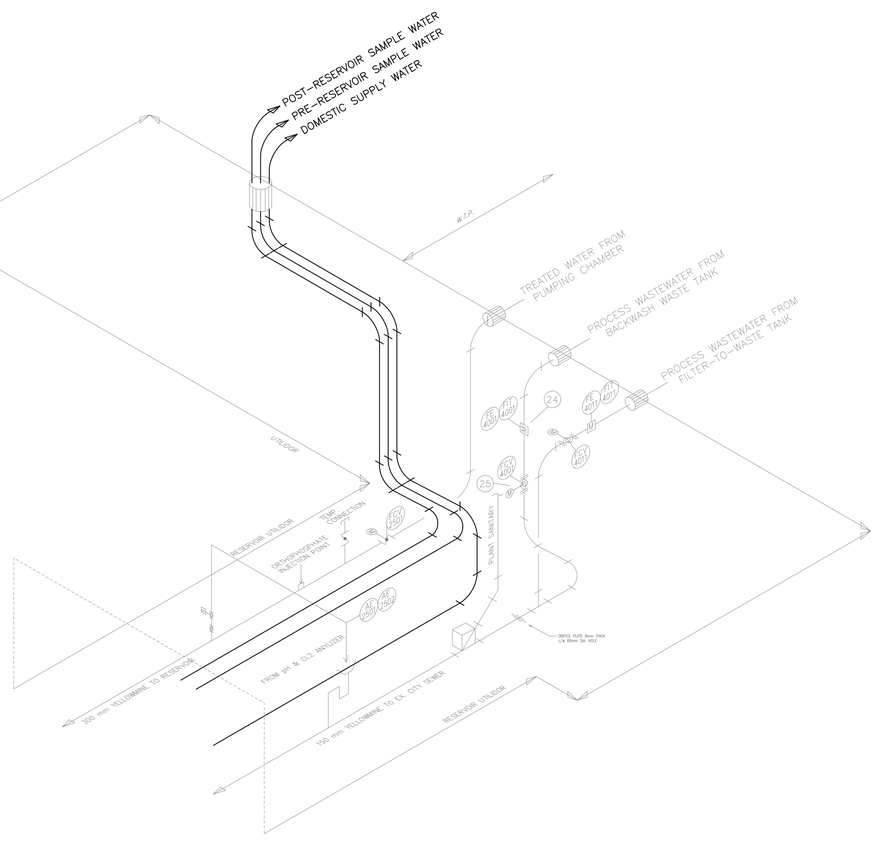
TITLE: FILTER FLOOR LAYOUT
SHEET NUMBER: P-102

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: PROCESS
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



1 P-103 CLEARWELL LOWER FLOOR PLAN
1:50

2 P-103 CLEARWELL UPPER FLOOR PLAN
1:50



3 P-103 SCHEM. SHOWING WASTE & FILTERED WATER
NTS

NOTES:
1. ALL ELEVATIONS AND DIMENSIONS ARE APPROXIMATE.

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

PERMIT TO PRACTICE
WSP Canada Inc.
Signature _____ #L4060
Date May 20, 2022
PERMIT NUMBER: P407
NT/NU Association of Professional Engineers and Geoscientists

REGISTERED PROFESSIONAL ENGINEER
Mark MACDANIELS
LICENSEE
May 20, 2022
NT/NU

CLIENT: ᐃᖃᓗᐃᑦ Iqaluit
CITY OF IQALUIT
CLIENT REF. #:

PROJECT:
IQALUIT
WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

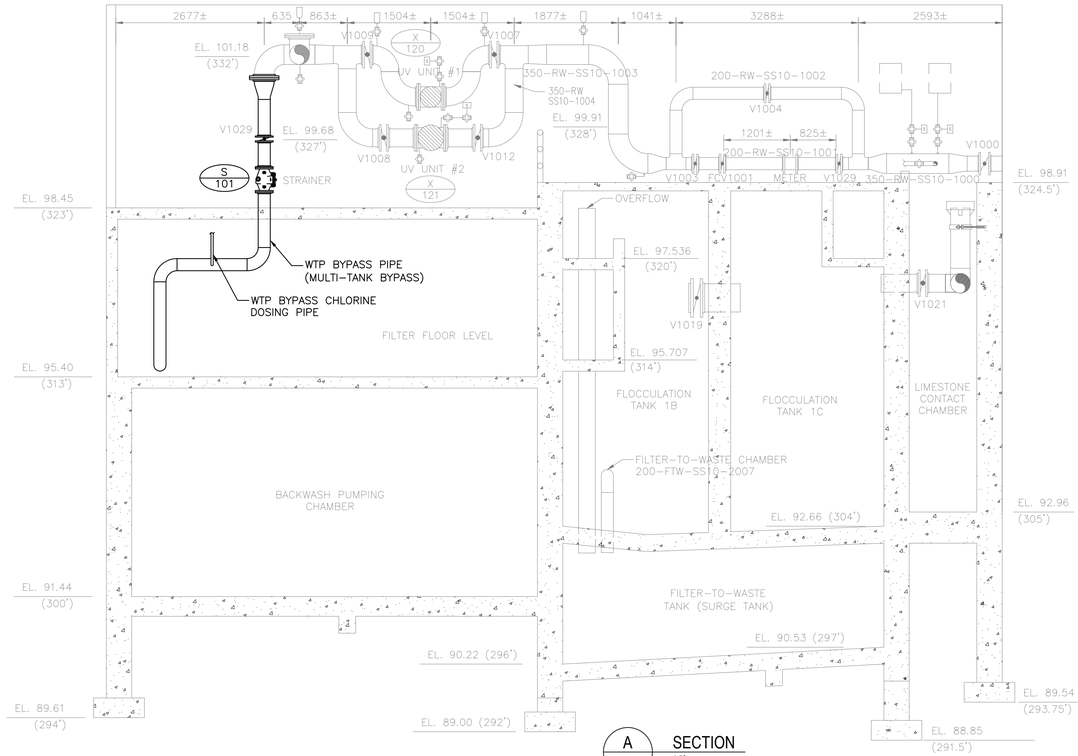
wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

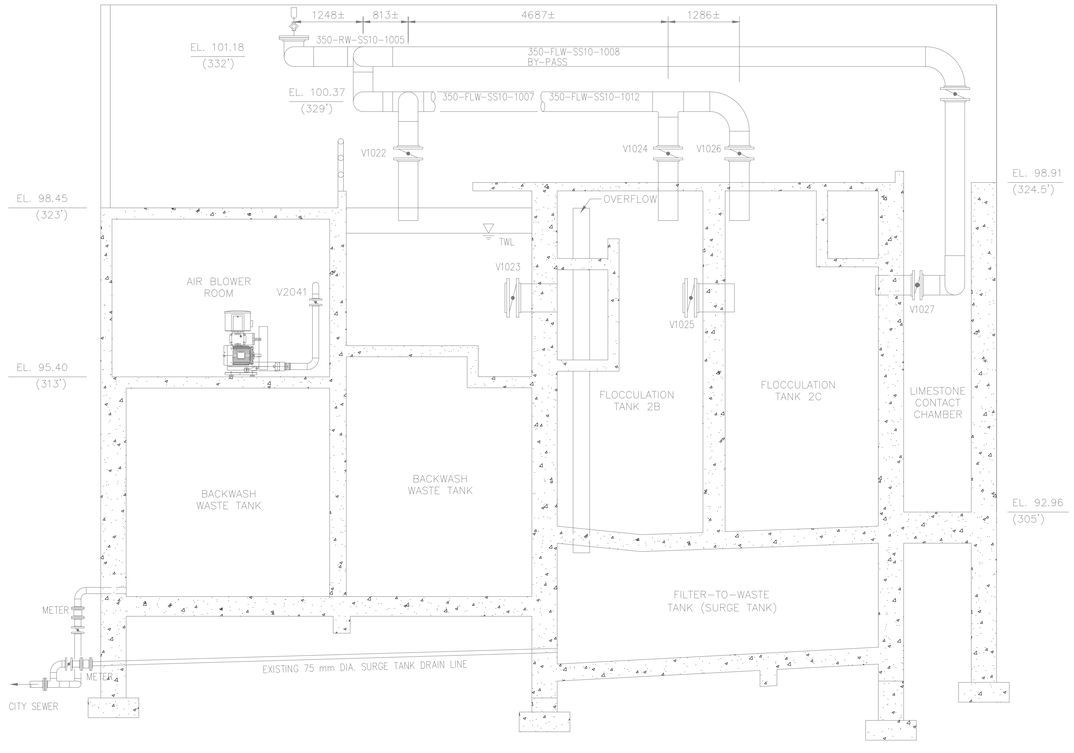
TITLE: CLEARWELL LEVEL LAYOUT

SHEET NUMBER: P-103

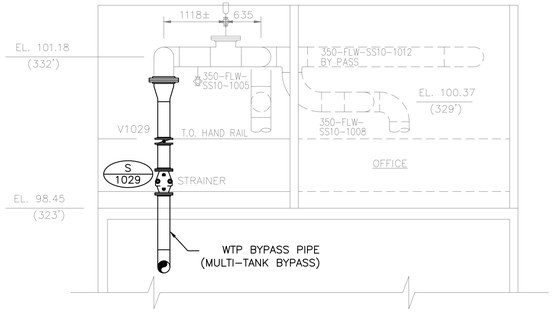
DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: PROCESS
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



A P-101 SECTION 1:50



C P-101 SECTION 1:50



B P-101 SECTION 1:50

NOTES:

1. ALL ELEVATIONS AND DIMENSIONS ARE APPROXIMATE.

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

PERMIT TO PRACTICE
WSP Canada Inc.
Signature _____ #L4060
Date May 20, 2022
PERMIT NUMBER: P407
NT/NU Association of Professional Engineers and Geoscientists

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER M. RAYCRAFT-WILLIAMS
LICENSEE
May 20, 2022
NT/NU

CLIENT: CITY OF IQALUIT
CLIENT REF. #:

PROJECT: IQALUIT
WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

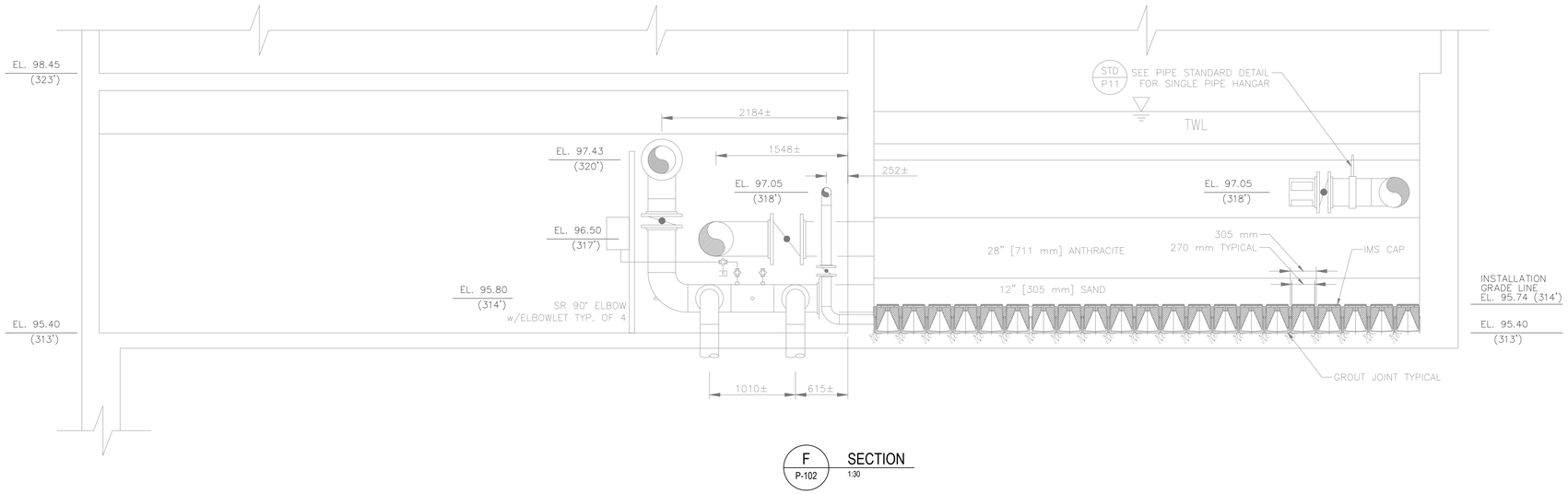
wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX: 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

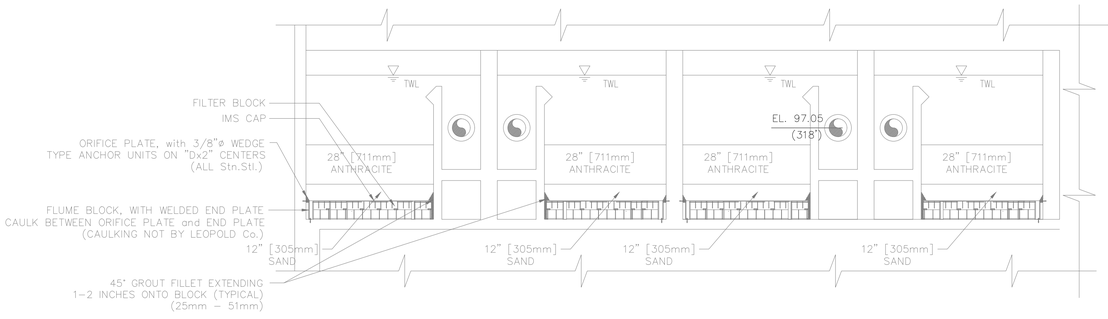
TITLE: UPPER FLOOR SECTIONS
A, B, & C

SHEET NUMBER: P-301

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: PROCESS
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



F P-102 SECTION 1:30



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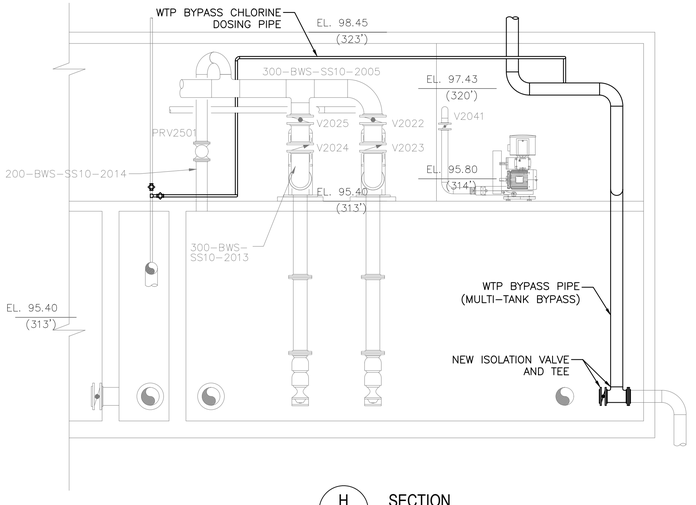


H P-102 SECTION 1:50

NOTES:

1. ALL ELEVATIONS AND DIMENSIONS ARE APPROXIMATE.

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

PERMIT TO PRACTICE
WSP Canada Inc.
Signature _____ #L4060
Date May 20, 2022
PERMIT NUMBER: P407
NT/NU Association of Professional Engineers and Geoscientists

REGISTERED PROFESSIONAL ENGINEER
Ian MACDONALD
L4060
MAY 20, 2022
NT/NU

CLIENT: Iqaluit
CITY OF IQALUIT
CLIENT REF. #:

PROJECT:
IQALUIT
WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

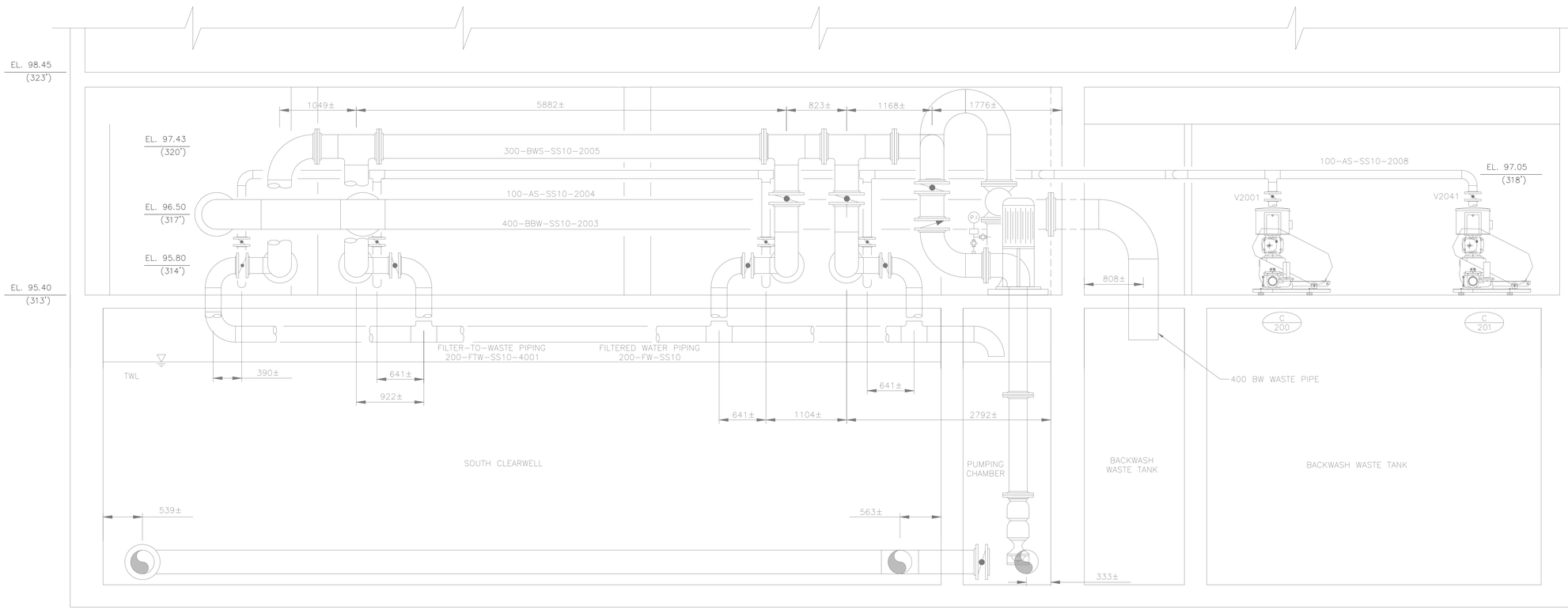
wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

TITLE:
FILTER FLOOR
SECTIONS F TO H

SHEET NUMBER: P-302

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: PROCESS
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



J
P-102
SECTION
1:30

NOTES:

1. ALL ELEVATIONS AND DIMENSIONS ARE APPROXIMATE.

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: ᐃᖃᓗᐃᑦ Iqaluit
CITY OF IQALUIT
CLIENT REF. #:

PROJECT:
IQALUIT
WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

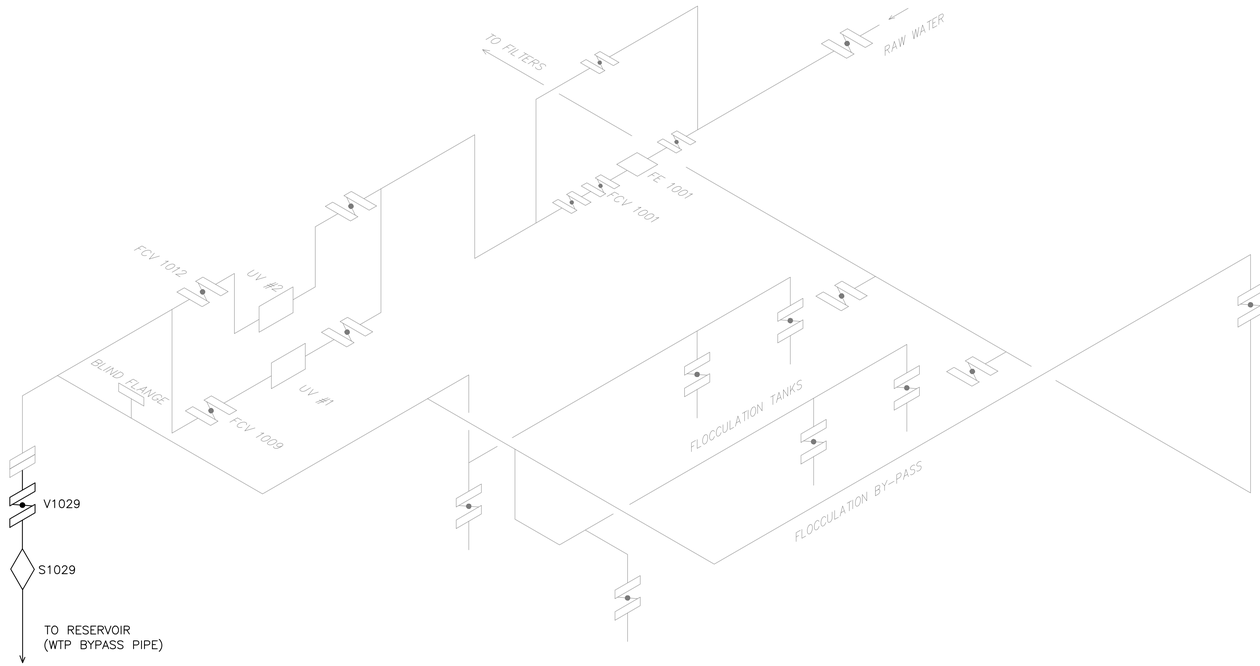
wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX: 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

TITLE:
FILTER FLOOR
SECTION J

SHEET NUMBER: P-303

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: PROCESS
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



DISCLAIMER:

NOTES:

1. ALL ELEVATIONS AND DIMENSIONS ARE APPROXIMATE.

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

PERMIT TO PRACTICE
WSP Canada Inc.
Signature _____ #L4060
Date May 20, 2022
PERMIT NUMBER: P407
NT/NU Association of Professional Engineers and Geoscientists

REGISTERED PROFESSIONAL ENGINEER — Ian MacDonald — LICENSEE — May 20, 2022 — NT/NU

CLIENT: ᐃᖃᓗᐃᑦ Iqaluit
CITY OF IQALUIT
CLIENT REF. #:

PROJECT:
IQALUIT
WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

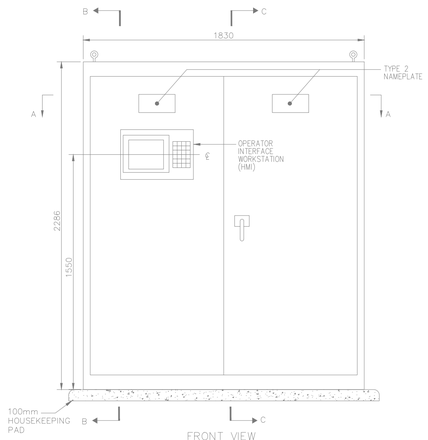
wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: N.T.S.

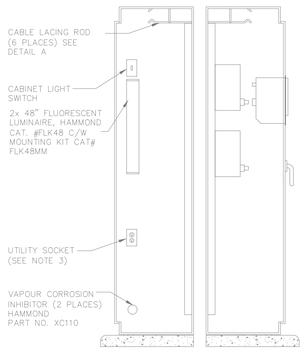
TITLE: UPPER FLOOR PIPING SCHEMATIC

SHEET NUMBER: P-304

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: PROCESS
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



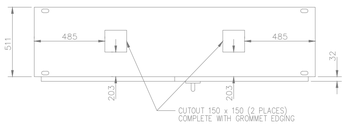
FRONT VIEW



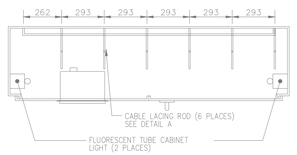
SECTION B–B SECTION C–C

NOTES:

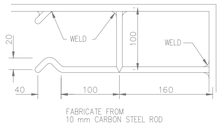
1) CABINET HAMMOND CAT# 1418BY20: CEMA 12 10 GA STEEL COMPLETE WITH CAT# 90BYFW PANEL.
2) CONTRACTOR TO SUBMIT SHOP DRAWING OF TERMINAL BLOCK ARRANGEMENT FOR ANALOG AND DIGITAL WIRING, FOR REVIEW AND APPROVAL BY ENGINEER PRIOR TO COSTRUCTION.
3) UTILITY SOCKET TO BE ISOLATED GROUND (ORANGE) HUBBEL IG–5262 OR EQUIVALENT.
4) NAMEPLATES TO SPECIFICATION SECTION 01080.



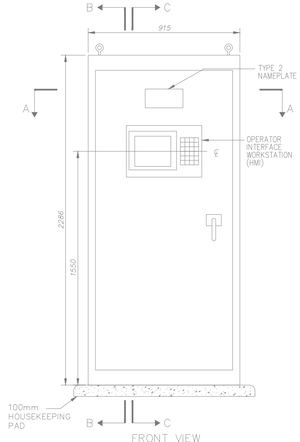
TOP VIEW



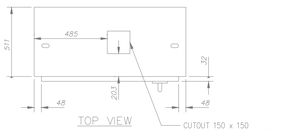
SECTION A–A



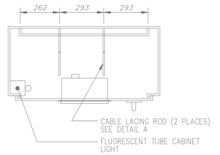
DETAIL A – CABLE LACING ROD



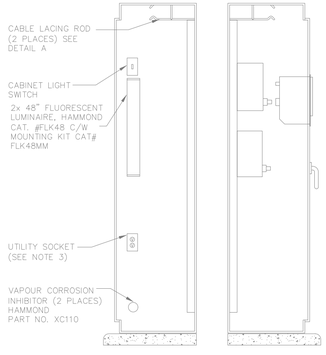
FRONT VIEW



TOP VIEW



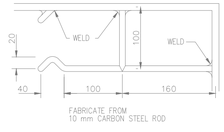
SECTION A–A



SECTION B–B SECTION C–C

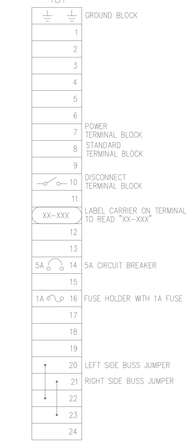
NOTES:

1) CABINET HAMMOND CAT# 1418YY20: CEMA 12 10 GA STEEL COMPLETE WITH CAT# 90YFW PANEL.
2) CONTRACTOR TO SUBMIT SHOP DRAWING OF TERMINAL BLOCK ARRANGEMENT FOR ANALOG AND DIGITAL WIRING, FOR REVIEW AND APPROVAL BY ENGINEER PRIOR TO COSTRUCTION.
3) UTILITY SOCKET TO BE ISOLATED GROUND (ORANGE) HUBBEL IG–5262 OR EQUIVALENT.
4) NAMEPLATES TO SPECIFICATION SECTION 01080.



DETAIL A – CABLE LACING ROD

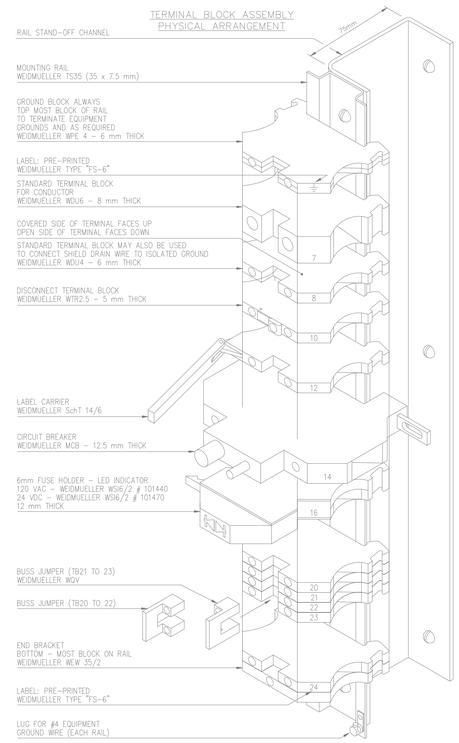
TERMINAL BLOCK ASSEMBLY
CABINET DRAWING REPRESENTATION



NOTES:

1. ENGINEERING APPROVAL REQUIRED FOR SUBSTITUTION OR ADDITIONS.
2. ALL MATERIAL (INCLUDING FUSES) TO BE SUPPLIED BY CONTRACTOR.
3. TOP MOST TERMINAL IN TERMINAL BLOCK TO BE GROUND BLOCK. END BRACKET NOT REQUIRED AT TOP.
4. BOTTOM MOST TERMINAL IN TERMINAL BLOCK TO BE END BRACKET.
5. EACH TERMINAL BLOCK WITHIN A CABINET TO HAVE A UNIQUE TERMINAL NUMBER. TYPICALLY TERMINALS IN THE FIRST COLUMN OF BLOCKS START AT NUMBER 1.
6. LIVE SIDE OF FUSED TERMINAL BLOCK ON LEFT SIDE ONLY.
7. FUSE SIZE TO BE 6 x 32

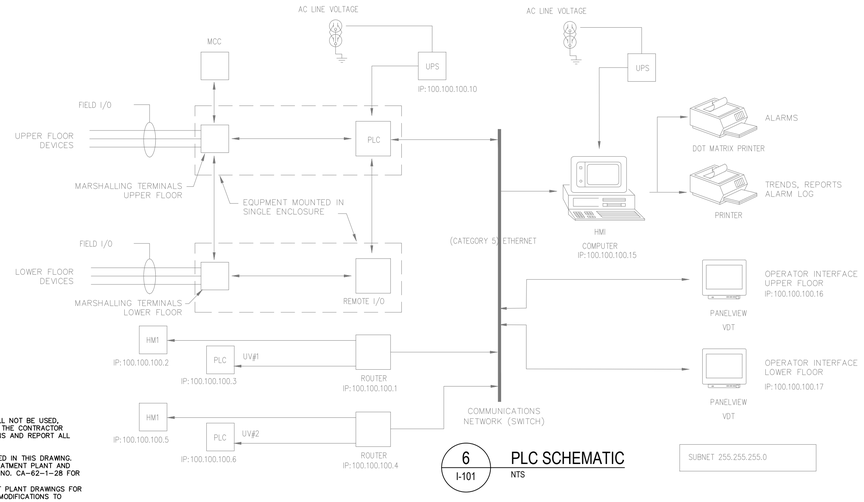
TERMINAL BLOCK ASSEMBLY
PHYSICAL ARRANGEMENT



1 I-101 UPPER PLC CABINET ELEVATION
NTS

2 I-101 LOWER PLC CABINET ELEVATION
NTS

3 I-101 MARSHALLING TERMINAL COMPONENTS
NTS



SUBNET 255.255.255.0

6 I-101 PLC SCHEMATIC
NTS

NOTES:

1) UPPER PLC CABINET TO INCLUDE THE NETWORK SWITCH, PLC UPS, 24 VOLT POWER SUPPLY, PLC, ALARM DIALER, AND INTERPOSING RELAYS AS REQUIRED
2) LOWER PLC CABINET TO INCLUDE REMOTE I/O RACKS, 24 VOLT POWER SUPPLY, AND INTERPOSING RELAYS AS REQUIRED
3) REFER TO PROJECT SPECIFICATION FOR PLC INSTALLATION TIMING REQUIREMENTS, AS THE PLC EQUIPMENT IS REQUIRED TO OPERATE THE TEMPORARY PLANT
4) DIVISION 17 RESPONSIBLE FOR THE SUPPLY,WIRING, INSTALLATION, PROGRAMMING, AND COMMISSIONING OF ALL COMPONENTS INDICATED ON THE DRAWINGS AND AS DETAILED IN THE PROJECT SPECIFICATIONS

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: ᐃᖃᓗᐃᑦ Iqaluit
CITY OF IQALUIT
CLIENT REF. #:

PROJECT:
IQALUIT
WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

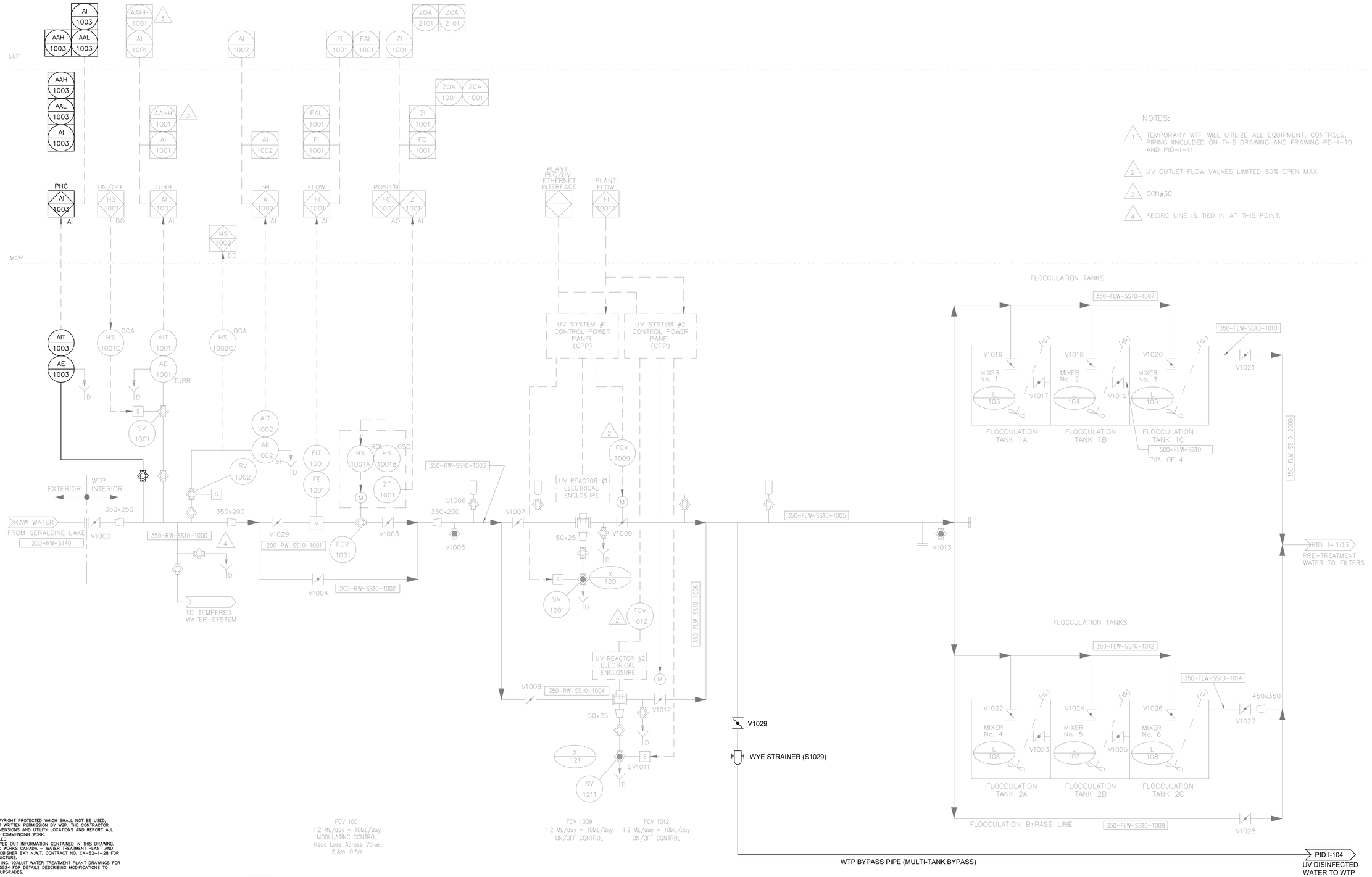
wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX: 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

TITLE: PLC SYSTEM

SHEET NUMBER: I-101

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: INSTRUMENTATION
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



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PERMIT TO PRACTICE
WSP Canada Inc.
Signature _____ #L4060
Date May 20, 2022
PERMIT NUMBER: P407
NT/NU Association of Professional Engineers and Geoscientists

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER GARRAWAY
LICENSEE
May 20, 2022
NT/NU

CLIENT: Iqaluit — CITY OF IQALUIT
CLIENT REF. #:

PROJECT: IQALUIT WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX: 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

TITLE: P&ID - PRETREATMENT

SHEET NUMBER: I-102

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: INSTRUMENTATION
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -

NOTES:

1. MM/VA ARE TAKEN FROM MCC CONTACTOR – NOT MOTOR.
2. LEVEL CONTROL VALVES LOGIC MAX. 50% OPEN.

LCP

MCP

400-BWW-SS10-2012
BACKWASH WASTE FROM OTHER 3 FILTERS

350-FLW-SS10-2017
PID I-102
FROM FILTER PRE-TREATMENT

RAPID GRAVITY FILTER No. 1
F 210

MEDIA

UNDERDRAINS

350-FLW-SS10-2000

BACKWASH WASTE CHANNEL

AIR SCOUR

TYPICAL OF FOUR FILTERS F-210 TO F-213

AIR SCOUR PACKAGE

AIR SCOUR BLOWER No. 1
C 200

AIR SCOUR BLOWER No. 2
C 201

INLET SILENCER

OUTLET SILENCER

100-AS-SS10-2011
100-AS-SS10-2010
100-AS-SS10-2009
100-AS-SS10-2008

400-BWW-SS10-2003
PID I-109
BACKWASH WASTE TO WASTE STORAGE TANK

100-AS-SS10-2004
AIR SCOUR PIPING TO OTHER 3 FILTERS

300-BWS-SS10-2005
PID I-104
BACKWASH WATER TYP. F-211,212,213

200-FW-SS10-2006
PID I-104
FILTERED WATER TO CLEARWELL
TYP. F-211,212,213

200-FTW-SS10-2007
PID I-109
FILTERED TO WASTE TO SURGE TANK
TYP. F-211,212,213

350-FLW-SS10-2001
INFLUENT TO FILTER F-211

350-FLW-SS10-2002
INFLUENT TO FILTER F-212

350-FLW-SS10-2016
INFLUENT TO FILTER F-213

FCV 2101
0.0 ML/day – 2.5ML/day
ON/OFF CONTROL

FCV 2107
0.0 – 840 M^3/hour (nominal)
ON/OFF CONTROL

LCV 2103
0.0 – 2.5ML/day
MODULATING CONTROL
Head Loss Across Valve, 0.3m to 3.0m

LCV 2104
0.0 – 2.5ML/day
MODULATING CONTROL
Head Loss Across Valve, 0.3m to 3.0m

FCV 2105
0.0 – 167.0 L/s
ON/OFF CONTROL

FCV 2106
0.0 – 167.0 L/s
ON/OFF CONTROL

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CLIENT REF. #:

PROJECT: IQALUIT WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX: 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

TITLE: P&ID - FILTRATION SYSTEM

SHEET NUMBER: I-103

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: INSTRUMENTATION
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -

NOTES:

1. MM/VA ARE TAKEN FROM MCC CONTACTOR – NOT MOTOR.
2. LEVEL CONTROL VALVES LOGIC MAX. 50% OPEN.

LCP

MCP

PID I-107
CAUSTIC SODA
25-OPS-PP-3015

PID I-102
UV DISINFECTED WATER
FROM WTP BYPASS PIPE

V3054

PID I-103
BACKWASH WATER
TYP. F-211,212,213
300-BWS-SS10-2005

V2034
V2033

PID I-106
SODIUM HYPOCHLORITE
V2032

V3053

PID I-108
CHLORINE SOLUTION
TYP. F-211,212,213
25-CLS-PP-3011
V3050
V3051
V3052

PID I-103
FILTERED WATER
TYP. F-211,212,213
200-FW-SS10-2006

PID I-108
HYDROFLUOROSILIC ACID
TYP. F-211,212,213
25-FAS-PP-3023
V3052
V3053

200-FW-SS10-2006
25-FAS-PP-3023

MANUAL OPERATION TYP. IN CLEARWELL

TWL
BWL

V2038
V2039
300-BWS-SS10-2016
V2037
V2035

NORTH CLEARWELL | MIXING CHAMBER | SOUTH CLEARWELL | PUMPING CHAMBER

OPEN/CLOSE ZSO 2051 HS 2051 DI DO

OCA HS 2051

AUTO S/S STATUS FAULT YS 2051 MM 2051 MM 2051 UA 2051

AUTO S/S STATUS FAULT YS 2061 MM 2061 MM 2061 UA 2061

HOA HS 2051 MCC
HOA HS 2061 MCC

PI 2061
V2029
V2028
N.O. V2022
V2023
300-BWS-SS10-2005

PI 2051
V2027
V2026
N.O. V2025
V2024
300-BWS-SS10-2013

ZSO 2501
SET @ 100 kPag
SV 2501
PRV 2501

200-BWS-SS10-2014

M 1
M 1

BACKWASH PUMP No. 1 P 205
BACKWASH PUMP No. 2 P 206

V2033
V2034

V2036

LIT 2501
LE 2501

LALL 2501 LAL 2501 LAH 2501 LI 2501
LEVEL LI 2501 AI

AI 2501A AAH 2501A AAL 2501A AAH 2501A
CL2 AI 2501A AI

AI 2501B AAH 2501B AAL 2501B AAH 2501B
pH AI 2501B AI

AI 2501C AAH 2501C AAL 2501C AAH 2501C
PHC AI 2501C AI

ZSC 2501 ZSO 2501 HSC 2501 HSO 2501
OPEN CLOSE HSO 2501 HSC 2501 ZSO 2501 ZSC 2501 DO DO DI DI

AIT 2501
300-TW-PVC-2015

HOA HS 2501A HS 2501B O/C
ZSO 2501
ZSC 2501
M

75-TW-PVC-1013
V2031
V2032
V2040

PID I-111
TREATED WATER TO RESERVOIR

FCV 2501

PI 2045
V2045
V2042 V2040
V2041
V2044 V2043
PID I-107
PRE-RESERVOIR SAMPLE WATER
PID I-107
POST-RESERVOIR SAMPLE WATER

CL2 AE 2501
pH AE 2502
PHCs AE 2503
V2046
V2047
V2048
P 310
FCV 2501
0.0 – 10.0ML/day
ON/OFF CONTROL

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SEAL:

PERMIT TO PRACTICE
WSP Canada Inc.
Signature _____ #L4060
Date May 20, 2022
PERMIT NUMBER: P407
NT/NU Association of Professional Engineers and Geoscientists

PROFESSIONAL ENGINEER
Ian MARTELLO
LICENSEE
May 20, 2022
NT/NU

CLIENT: CITY OF IQALUIT
CLIENT REF. #:

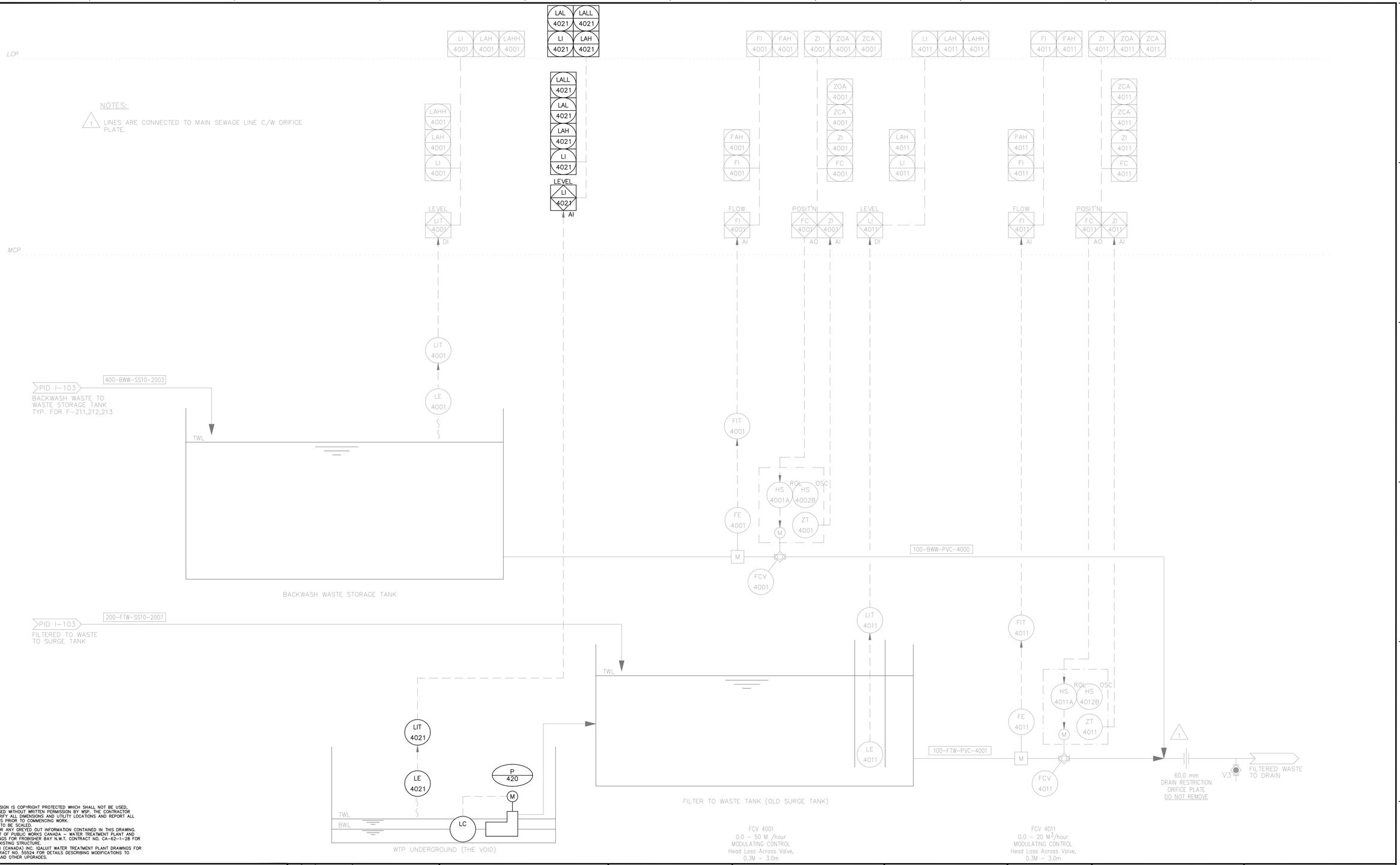
PROJECT: IQALUIT WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

TITLE: P&ID - BACKWASH SUPPLY
SHEET NUMBER: I-104

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: INSTRUMENTATION
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



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REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER GARNEAU
LICENSEE
May 20, 2022
NT/NU

CLIENT: ᐃᖃᓗᐃᑦ Iqaluit
CITY OF IQALUIT
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PROJECT:
IQALUIT
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PROJECT NO: 211-12497-00
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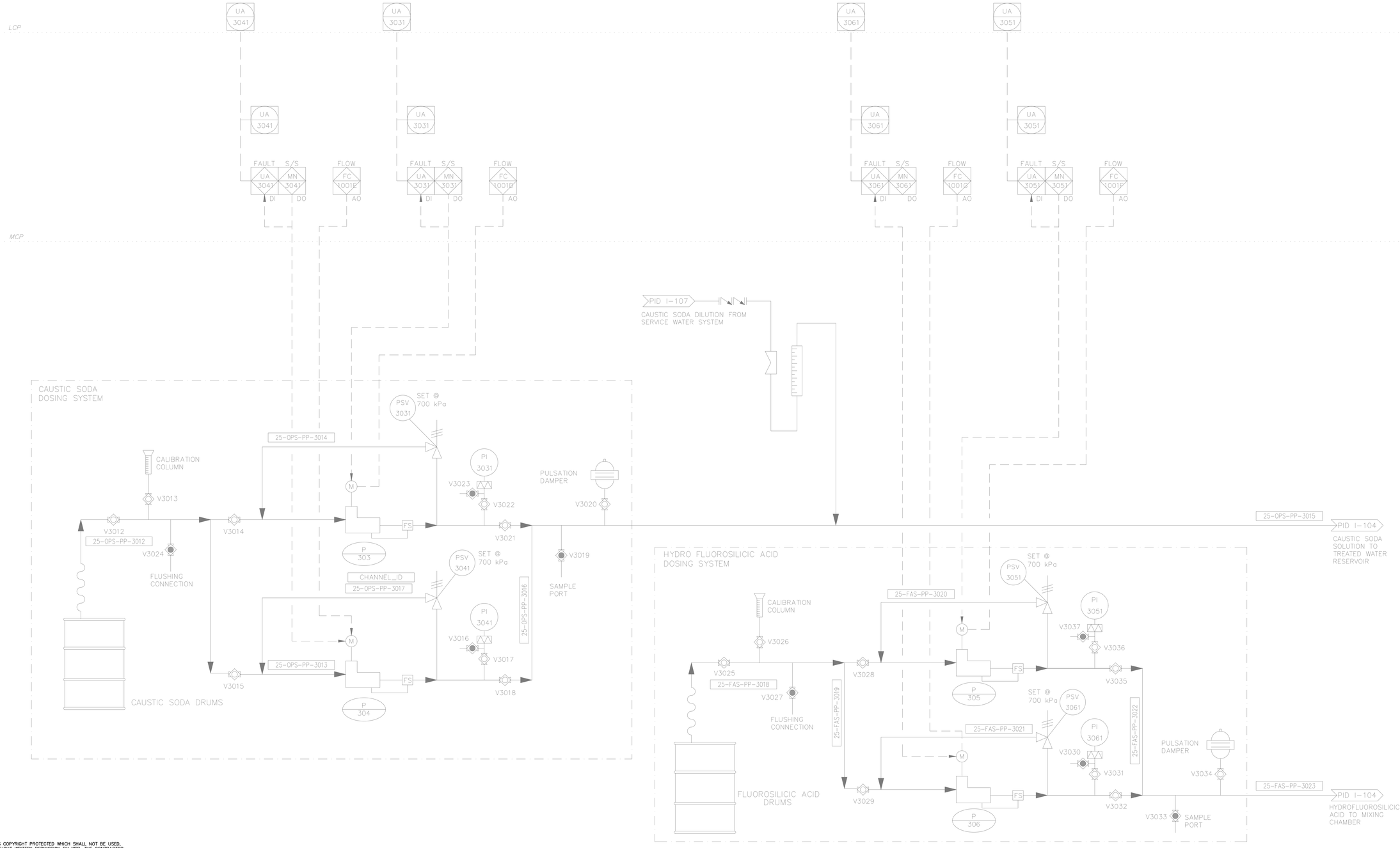
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

TITLE:
P&ID - BACKWASH AND FILTER-TO-WASTE SYSTEMS

SHEET NUMBER: I-105

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: INSTRUMENTATION
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



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DATE: 2021/11/23

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1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
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ORIGINAL SCALE: AS NOTED

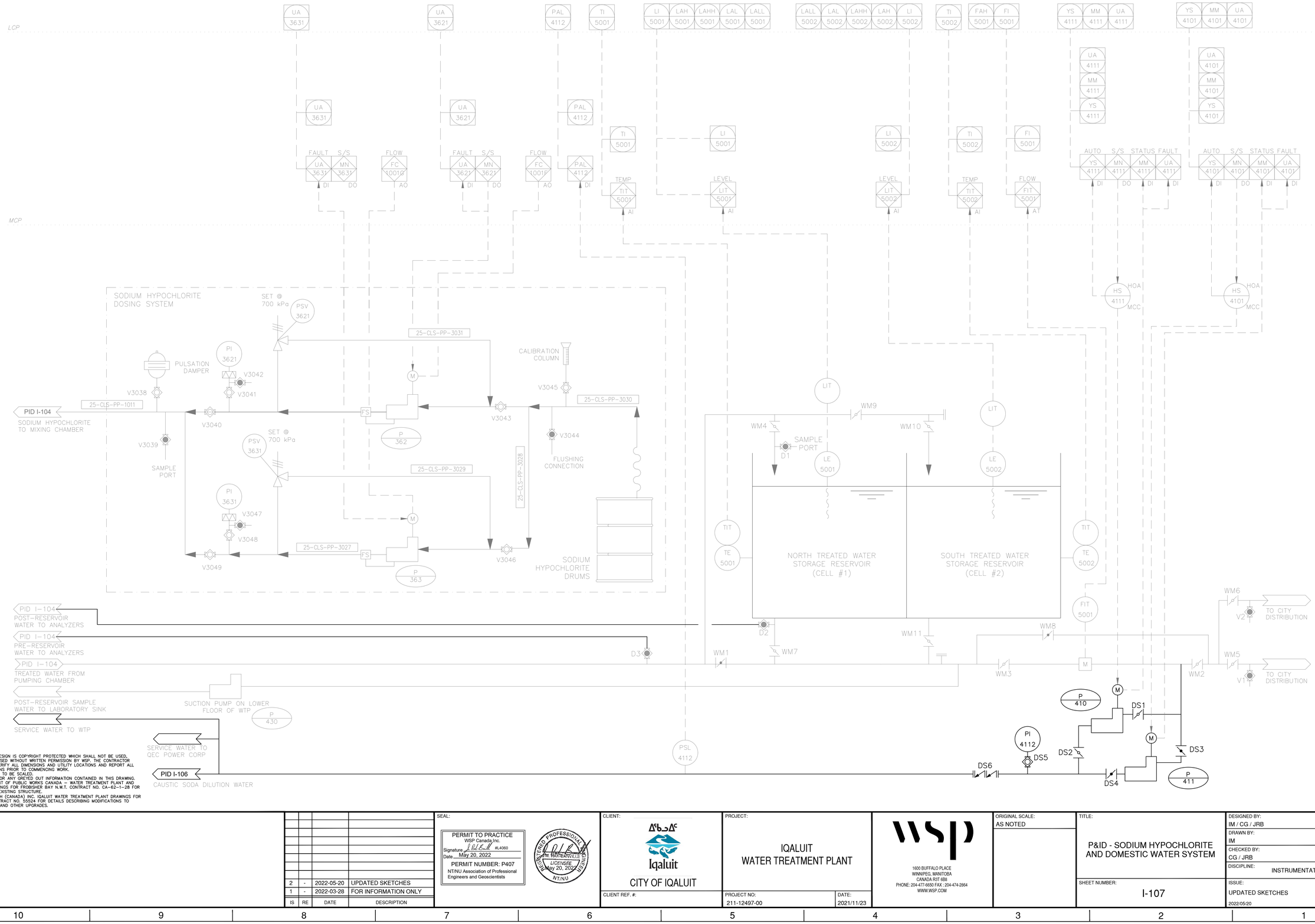
TITLE: P&ID - CAUSTIC SODA AND HYDROFLUOROSILICIC SUPPLY

SHEET NUMBER: I-106

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: INSTRUMENTATION

ISSUE: UPDATED SKETCHES 2022/05/20

REV #: -



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NT/NU Association of Professional Engineers and Geoscientists

REGISTERED PROFESSIONAL ENGINEER
M. MACHANVILLE
LICENSEE
May 20, 2022
NT/NU

CLIENT: ᐃᖃᓗᐃᑦ Iqaluit
CITY OF IQALUIT
CLIENT REF. #:

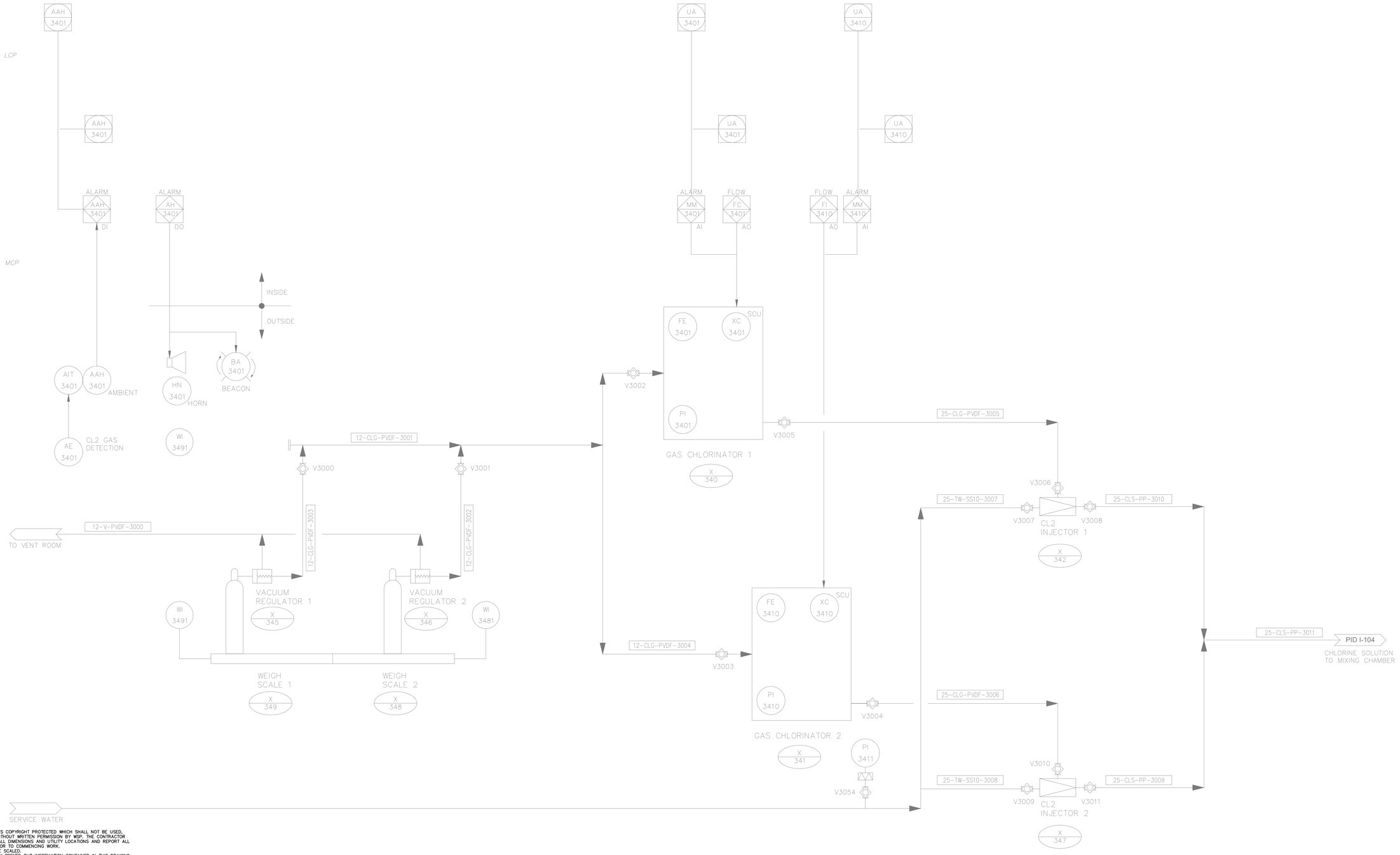
PROJECT:
IQALUIT
WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

wsp
1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

TITLE:
P&ID - SODIUM HYPOCHLORITE AND DOMESTIC WATER SYSTEM
SHEET NUMBER: I-107

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: INSTRUMENTATION
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



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WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
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ORIGINAL SCALE: AS NOTED

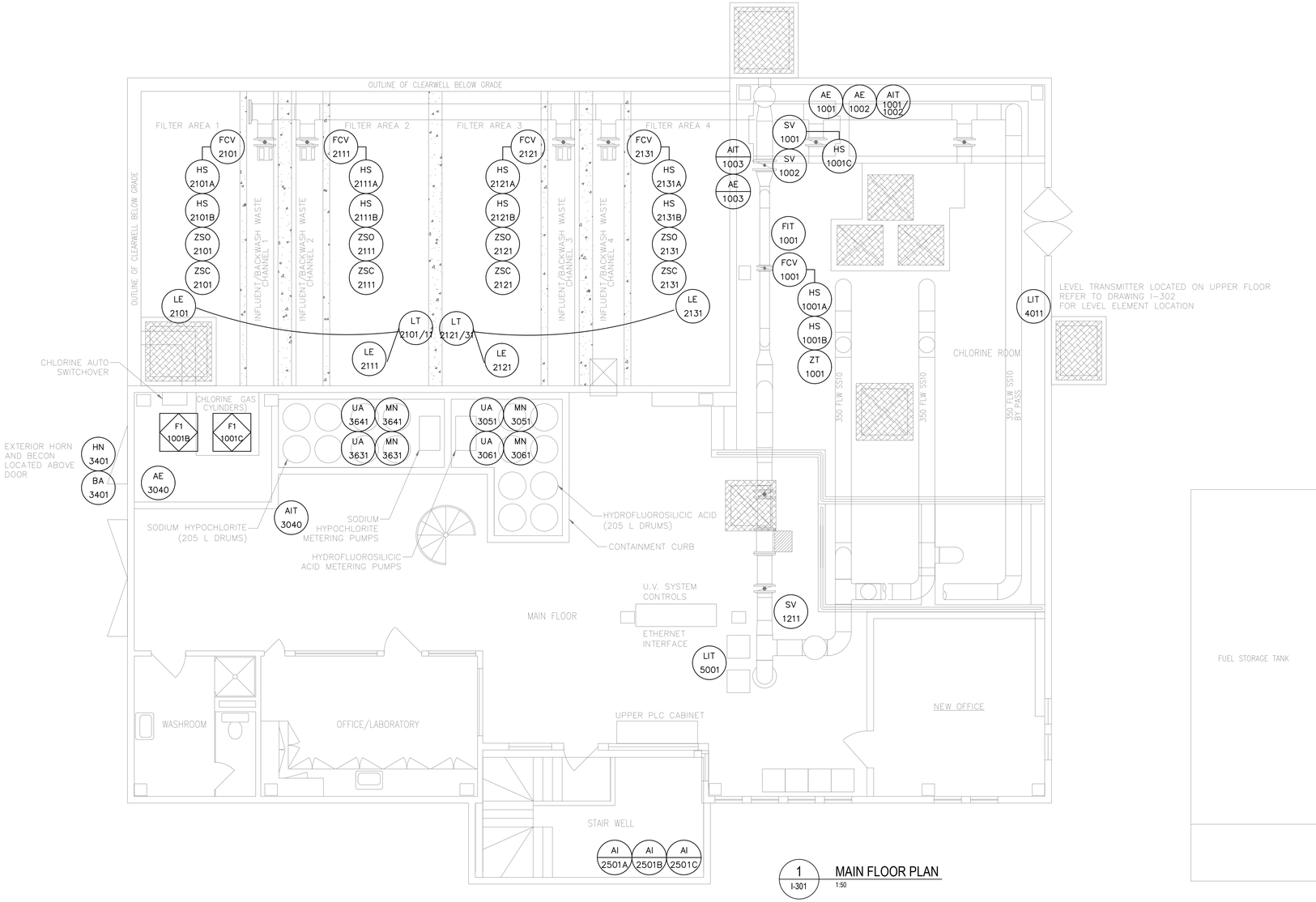
TITLE: P&ID - CHLORINE SOLUTION SUPPLY

SHEET NUMBER: I-108

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: INSTRUMENTATION

ISSUE: UPDATED SKETCHES 2022/05/20

REV #: -



1 / I-301 MAIN FLOOR PLAN
1:50

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1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX: 204-474-2864
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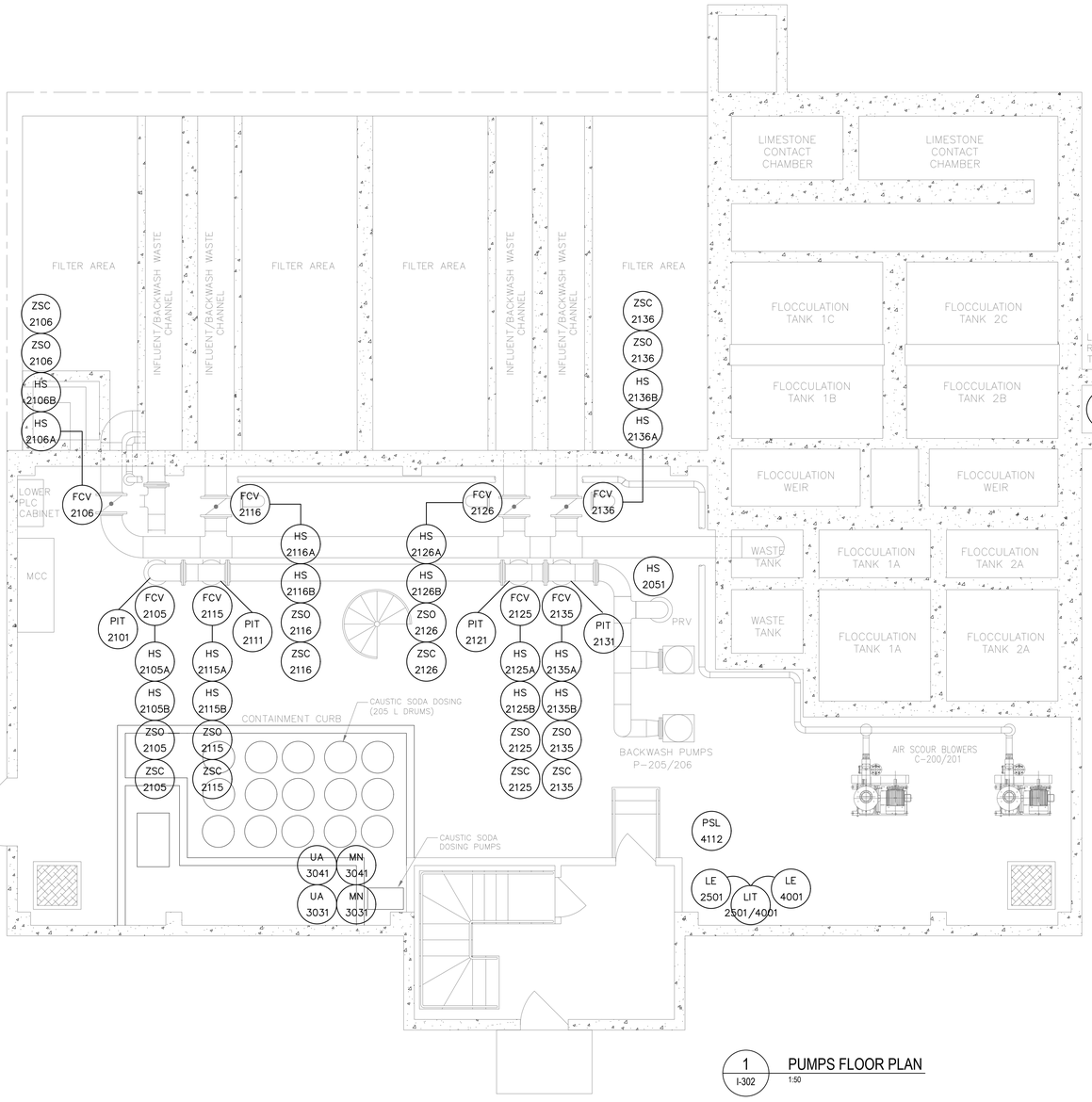
ORIGINAL SCALE: AS NOTED

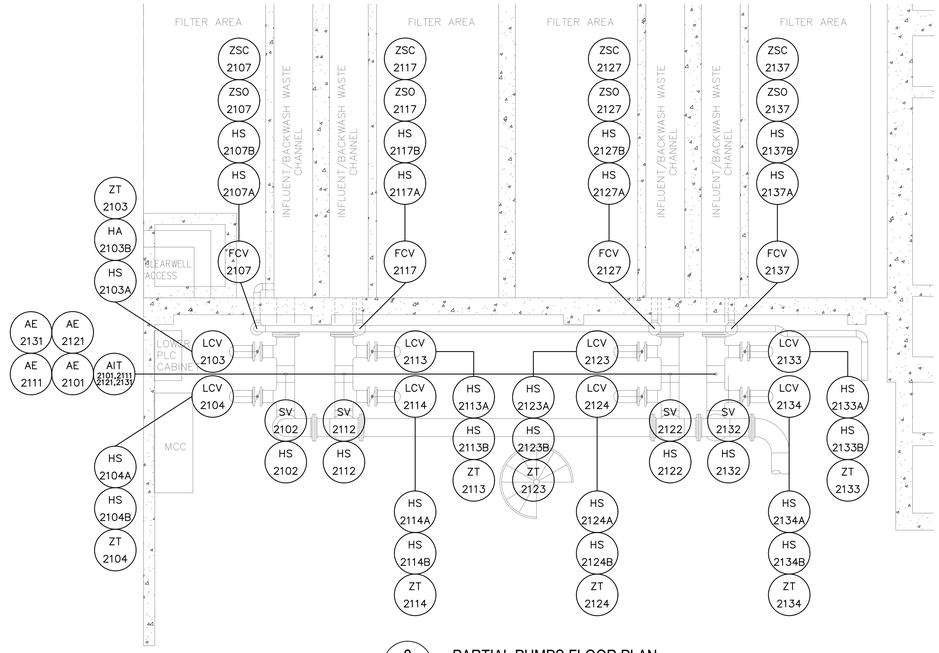
TITLE: FILTERS FLOOR DEVICE LOCATIONS

SHEET NUMBER: I-301

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: INSTRUMENTATION
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



1 I-302 PUMPS FLOOR PLAN
1:50



2 I-302 PARTIAL PUMPS FLOOR PLAN
1:50

IS	RE	DATE	DESCRIPTION
2	-	2022-05-20	UPDATED SKETCHES
1	-	2022-03-28	FOR INFORMATION ONLY

SEAL:

CLIENT: Iqaluit — CITY OF IQALUIT
CLIENT REF. #:

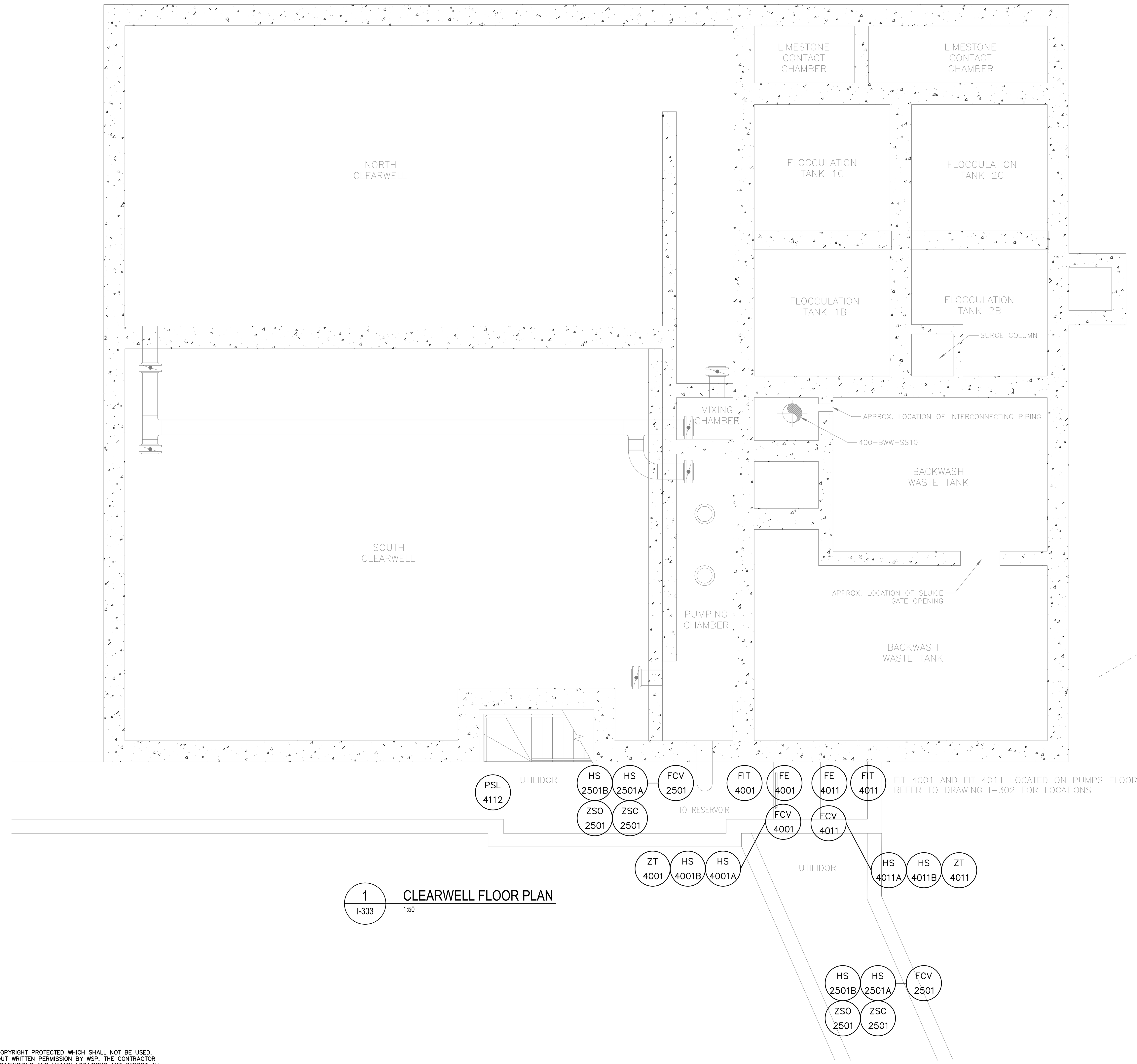
PROJECT: IQALUIT WATER TREATMENT PLANT
PROJECT NO: 211-12497-00
DATE: 2021/11/23

1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
WWW.WSP.COM

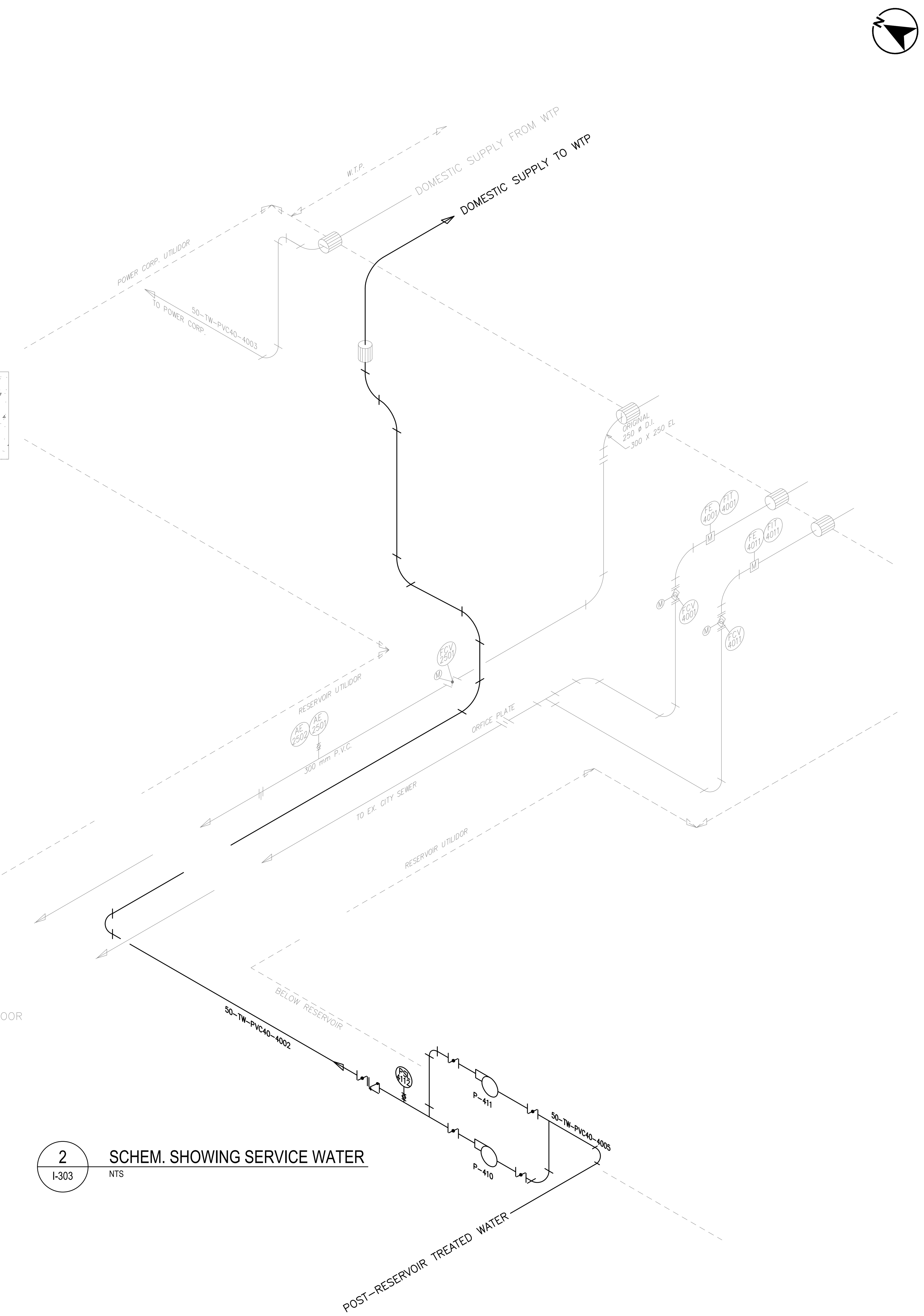
ORIGINAL SCALE: AS NOTED

TITLE: PUMPS FLOOR DEVICE LOCATION
SHEET NUMBER: I-302

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: INSTRUMENTATION
ISSUE: UPDATED SKETCHES 2022/05/20
REV #: -



1 I-303 CLEARWELL FLOOR PLAN
1:50



2 I-303 SCHEM. SHOWING SERVICE WATER
NTS

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WSP IS NOT LAIBLE FOR ANY GREYED OUT INFORMATION CONTAINED IN THIS DRAWING.
REFER TO DEPARTMENT OF PUBLIC WORKS CANADA – WATER TREATMENT PLANT AND WATER SUPPLY DRAWINGS FOR FROBISHER BAY N.W.T. CONTRACT NO. CA–62–1–28 FOR DETAILS DESCRIBING EXISTING STRUCTURE.
REFER TO EARTH TECH (CANADA) INC. IQALUIT WATER TREATMENT PLANT DRAWINGS FOR CITY OF IQALUIT CONTRACT NO. 55524 FOR DETAILS DESCRIBING MODIFICATIONS TO EXISTING STRUCTURE AND OTHER UPGRADES.

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WSP Canada Inc.
Signature ______ #L4060
Date May 20, 2022
PERMIT NUMBER: P407
NT/NU Association of Professional Engineers and Geoscientists

REGISTERED PROFESSIONAL ENGINEER
M. PAYLEBANVILLE
LICENSEE
May 20, 2022
NT/NU

CLIENT:
ᐃᖃᓗᐃᑦ
Iqaluit
CITY OF IQALUIT

CLIENT REF. #:

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IQALUIT
WATER TREATMENT PLANT

PROJECT NO: 211-12497-00
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1600 BUFFALO PLACE
WINNIPEG, MANITOBA
CANADA R3T 6B8
PHONE: 204-477-6650 FAX : 204-474-2864
WWW.WSP.COM

ORIGINAL SCALE: AS NOTED

TITLE:
CLEARWELL FLOOR AND WTP UNDERGROUND DEVICE LOCATIONS

SHEET NUMBER: I-303

DESIGNED BY: IM / CG / JRB
DRAWN BY: IM
CHECKED BY: CG / JRB
DISCIPLINE: INSTRUMENTATION
ISSUE: UPDATED SKETCHES
2022/05/20
REV #: -