Project No. 230813.02

DRAWING LIST

Sheet Number	Sheet Title
COVER SHEET	
000	COVER SHEET AND DRAWING LIST
CIVIL	
C01	EXIST. CONDITIONS & REMOVALS, EROSION & SEDIMENT CONTROL & NOTES
C02	SERVICING PLAN
C03	BERM AND ACCESS ROAD GRADING
C04	LAGOON GRADING
C05	BLOWER BUILDING GRADING
C06	LAGOON PLANS
C07	LAGOON SECTIONS
C08	LAGOON DETAILS
C09	CIVIL DETAILS SHEET 1 OF 2
C10	CIVIL DETAILS SHEET 2 OF 2
ARCHITECTURAL	
A01	BLOWER BUILDING PLANS AND SECTIONS
A02	BLOWER BUILDING ELEVATIONS
A03	DETAILS AND SCHEDULES
STRUCTURAL	
S01	GENERAL NOTES
S02	BLOWER BUILDING – PLANS AND CROSS SECTIONS
S03	SECTIONS AND TYPICAL DETAILS – CONCRETE
S04	TYPICAL DETAILS – MASONRY AND TIMBER
PROCESS	
P01	LEGEND
P02	HYDRAULIC PROFILE
P03	P & ID
P04	EXISTING BLOWER BUILDING DEMOLITION
P05	BLOWER BUILDING PLAN AND SECTIONS
P06	DETAILS
MECHANICAL	
M01	BLOWER BUILDING HVAC AND ROOF LAYOUTS
ELECTRICAL	
E01	LEGEND
E02	SITE PLAN & SECTIONS
E03	SINGLE LINE DIAGRAM
E04	BLOWER BUILDING & SCREENING BUILDING DEMO PLANS
E05	PROPOSED BLOWER BUILDING & SCREENING BUILDING PLANS
E06	BLOWER BUILDING LIGHTING AND POWER PLAN
E07	HAZARDOUS CLASSIFICATION AND DETAILS
E08	DETAILS SHEET 1 OF 2
E09	DETAILS SHEET 2 OF 2
E10	SCHEMATICS AND BLOCK DIAGRAM
INSTRUMENTS	
J01	CONTROL SYSTEM BLOCK DIAGRAM
J02	SCHEMATIC, IO LISTS & PLC–RTU LAYOUT
J03	SCHEMATICS AND BLOCK DIAGRAM

TOWN OF WOLFVILLE

wolfville

WASTEWATER TREATMENT PLANT
PHASE 2 UPGRADES

KEY PLAN

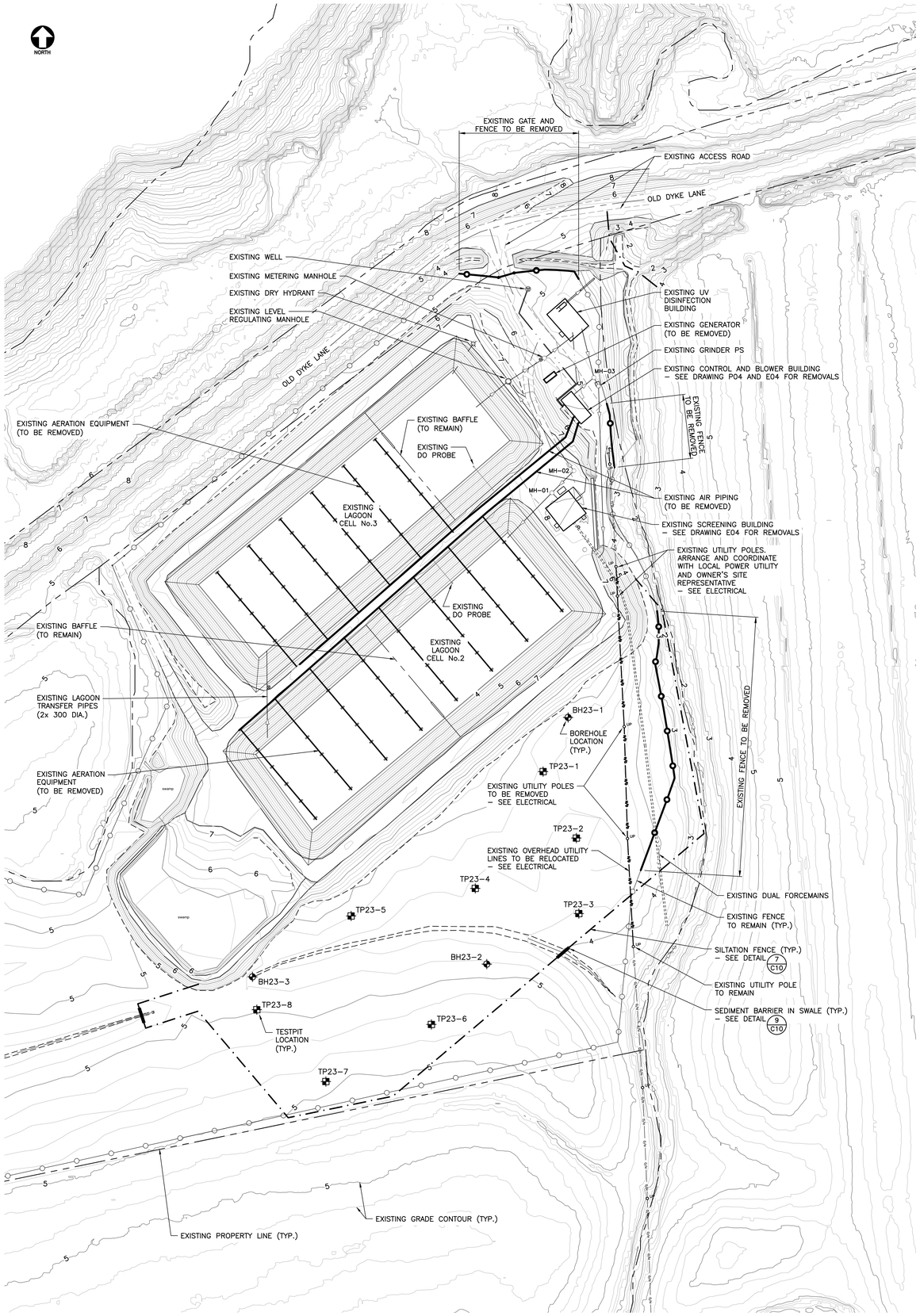
CBCL

NOT FOR CONSTRUCTION

ISSUED FOR TENDER

MARCH 11, 2025

DRAWING NAME: Y:\HALIFAX\DATA\PROJECTS\2023\230813.00 TOW WWTP PHASE 2 UPGRADES\44 CAD\06 PROCESS\230813.00-000.DWG LAYOUT NAME: 000 PLOT DATE: Tuesday, March 11, 2025 12:00:51 PM CAD OPERATOR: NOELM



PLAN
1:750

GENERAL NOTES:

1. THE FOLLOWING NOTES APPLY UNLESS OTHERWISE INDICATED.
2. SPECIFICATIONS AND STANDARD DETAILS ISSUED WITH THESE DRAWINGS FORM AN INTEGRAL PART OF THIS CONTRACT.
3. ALL CONSTRUCTION WORK TO BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND NSRBA/CENS STANDARD SPECIFICATIONS FOR MUNICIPAL SERVICES. WHEN CONFLICTS OCCUR THE MORE STRINGENT SHALL APPLY AS DIRECTED BY THE ENGINEER.
4. EXISTING GRADE ELEVATIONS AND COORDINATES ARE DERIVED FROM DATA OBTAINED FROM AVAILABLE PROVINCIAL 10K DERIVED LIDAR MAPPING PRODUCTS AND ARE NAD83 (CSRS) MTM ZONE 5 CGVD 2013.
5. FOR GEOTECHNICAL AND BOREHOLE INFORMATION REFER TO REPORT PREPARED BY CBCL LIMITED DATED AUG. 16/24 (INCLUDED AS AN APPENDIX IN SPECIFICATIONS).
6. A SITE MEETING WILL BE HELD AT THE WOLFVILLE WASTEWATER TREATMENT PLANT TO PROVIDE AN OPPORTUNITY FOR TENDERERS TO GAIN ACCESS TO THE FACILITY AND BECOME FAMILIAR WITH THE NATURE AND EXTENT OF THE WORK REQUIRED. CONSULT THE SPECIFICATIONS FOR DATE AND TIME.
7. CONTRACTOR TO PROTECT ALL CONTROL MONUMENTS FROM DAMAGE DURING CONSTRUCTION. IF ANY MONUMENT IS DISTURBED, IT MUST BE RESET AND RE-SURVEYED AT THE CONTRACTOR'S EXPENSE AS DIRECTED BY THE ENGINEER.
8. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK AND SHALL COMPLY WITH THE PERMIT'S REQUIREMENTS AND CONDITIONS. CONTRACTOR WILL BE PROVIDED COPY OF NOVA SCOTIA ENVIRONMENT AND CLIMATE CHANGE APPROVAL TO CONSTRUCT.
9. DO NOT SUBSTITUTE MATERIALS UNLESS PRIOR APPROVAL IS OBTAINED FROM THE ENGINEER.
10. CONTRACTOR TO CARRY OUT ENVIRONMENTAL PROTECTION MEASURES IN ACCORDANCE WITH NOVA SCOTIA ENVIRONMENT EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION SITES (LATEST EDITION). CONTRACTOR SHALL PROTECT ALL DOWNSTREAM AREAS FROM ANY NEGATIVE IMPACT WHATSOEVER FROM THE CONSTRUCTION ACTIVITIES.
11. MAINTAIN MINIMUM DISTURBANCE IN ALL AREAS. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL OR BETTER THAN EXISTED BEFORE CONSTRUCTION.
12. LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY. CONTRACTOR SHALL CONFIRM EXISTING UTILITY AND SUBSURFACE INFORMATION PRIOR TO CONSTRUCTION. EXCAVATE AND EXPOSE TO CONFIRM ELEVATIONS.
13. PROTECT ALL EXISTING SERVICES AND FEATURES DESIGNATED TO REMAIN. CONTRACTOR TO IMMEDIATELY MAKE GOOD ANY DAMAGES CAUSED BY EXECUTION OF WORK. REPAIR FEATURES TO A CONDITION EQUAL OR BETTER THAN EXISTED PRIOR TO THE WORK. ALL REPAIRS AND REPLACEMENTS TO BE MADE AT NO CHARGE TO THE OWNER.

EROSION AND SEDIMENT CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ADEQUATE MEASURES AND CONTROLS TO ENSURE THE PROTECTION OF NATURAL WATERCOURSES FROM DAMAGE DUE TO SILTATION RUNOFF FROM ALL CONSTRUCTION SITES AND DE-WATERING PROCEDURES.
2. CONTRACTOR TO SUBMIT EROSION AND SEDIMENT CONTROL PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO BEGINNING WORK.
3. EROSION AND SEDIMENTATION CONTROLS INDICATED ON PLANS AND DETAILS REPRESENT THE MINIMUM REQUIREMENT. ADDITIONAL CONTROLS TO BE INSTALLED AS REQUIRED. ENVIRONMENTAL PROTECTION MEASURES IN ACCORDANCE WITH NOVA SCOTIA ENVIRONMENT EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION (LATEST EDITION).
4. ALL CONTROLS TO BE INSTALLED PRIOR TO BEGINNING WORK, AND MAINTAINED THROUGHOUT CONSTRUCTION.
5. STRAW BALE BARRIERS TO BE IN ACCORDANCE WITH STANDARD DRAWING HS701 OF NOVA SCOTIA DEPARTMENT OF TRANSPORTATION AND INFRASTRUCTURE RENEWAL (NSTIR) STANDARD SPECIFICATION – HIGHWAY CONSTRUCTION AND MAINTENANCE (LATEST EDITION).
6. PROTECT ALL REMAINING VEGETATION FROM DAMAGE.
7. EXCAVATE DITCHES IN ALL AREAS AT THE EARLIEST PRACTICAL TIME IN THE CONSTRUCTION SEQUENCE TO MAINTAIN FLOW TO SEDIMENTATION PONDS AND PREVENT WATER FROM UPSTREAM AREAS FROM FLOWING ACROSS EXPOSED SOIL.
8. MAINTAIN A STOCKPILE OF APPROPRIATE EROSION AND ENVIRONMENTAL PROTECTION MATERIALS (E.G. SILT FENCES, STRAW OR HAY BALES, HAY OR STRAW MULCH AND CLEAR STONE) ON SITE AT ALL TIMES.
9. INSPECT AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES FROM THE TIME OF INSTALLATION UNTIL AFTER ALL AREAS HAVE BEEN STABILIZED.
10. REMOVE SILT ACCUMULATIONS AT SILT FENCES AND OTHER PROTECTION DEVICES BY CAREFUL HAND EXCAVATION. DISPOSE OF ACCUMULATED SILT BY REMOVING FROM SITE.

EXISTING WASTEWATER TREATMENT PLANT NOTES:

1. THE EXISTING FACILITY IS PART OF A FUNCTIONING WASTEWATER TREATMENT PLANT AND IS TO REMAIN OPERATIONAL FOR THE DURATION OF CONSTRUCTION. MINIMIZE AND SCHEDULE DISTURBANCES TO EXISTING SYSTEMS AND PROVIDE ACCESS TO OPERATIONS STAFF FOR ROUTINE MAINTENANCE AND INSPECTION. SITE ACTIVITIES AFFECTING THE EXISTING FACILITY SHALL BE COORDINATED WITH THE OWNER IN ADVANCE OF UNDERTAKING THE WORK.
2. EXISTING PIPING, VALVES, FITTINGS, ETC. ARE SHOWN AS APPROXIMATE ONLY. CONTRACTOR TO CONFIRM SIZE, LOCATION, AND ELEVATION OF ALL EXISTING INFRASTRUCTURE AND NOTIFY THE ENGINEER, IN WRITING, OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DISTURBING EXISTING SERVICES/SYSTEMS NOT DESIGNATED FOR REMOVAL.
3. CONTRACTOR IS RESPONSIBLE FOR WATERTIGHT BULKHEADS, BYPASS PUMPING, LOWERING LIQUID LEVEL WITHIN LAGOONS, HAULING OF WASTEWATER AND ANY OTHER TEMPORARY SET-UPS REQUIRED DURING CONSTRUCTION TO MAINTAIN OPERATION OF THE EXISTING FACILITY.
4. BYPASS/TEMPORARY PUMPING TO INCLUDE A SPARE BACK-UP PUMP ON-SITE AND READY FOR USE.

DEMOLITION AND REMOVALS NOTES:

1. LIMITS OF REMOVALS SHOWN ARE APPROXIMATE.
2. TREES TO BE CLEARED AND AREA GRUBBED AS REQUIRED. REMOVE ALL VEGETATION, TOPSOIL, FILL MATERIALS, AND ANY OTHER DELETERIOUS MATERIALS WITHIN FOOTPRINT OF LAGOON. TOPSOIL IS TO BE STOCKPILED ON SITE FOR RE-USE. ALL UNSUITABLE AND DELETERIOUS MATERIALS ARE TO BE DISPOSED OF OFF-SITE.
3. UNLESS OTHERWISE NOTED, ALL PIPES ENCOUNTERED DURING EXECUTION OF WORK THAT ARE NO LONGER REQUIRED SHALL BE REMOVED AND TRENCHES BACKFILLED. CAP AND ABANDON REMAINING LENGTHS OF PIPE AND RECORD LOCATIONS OF ANY RE-ROUTED OR ABANDONED PIPELINES. OBTAIN ENGINEER'S APPROVAL PRIOR TO ABANDONING ANY PIPELINES.
4. PRIOR TO UNDERTAKING DEMOLITION AND REMOVALS, CONTRACTOR SHALL SUBMIT A PLAN/SCHEDULE OUTLINING THE SWITCHOVER PROCESS. PLAN/SCHEDULE TO BE UPDATED AND/OR REVISED AS CONSTRUCTIONS PROGRESSES.
5. CONTRACTOR TO COORDINATE WITH THE OWNER FOR SALVAGE OF EXISTING EQUIPMENT. OWNER WILL PROVIDE A LIST OF EQUIPMENT FOR SALVAGE TO THE CONTRACTOR AND DESIGNATE A LOCATION ON-SITE FOR STORAGE OF SALVAGED EQUIPMENT. EQUIPMENT NOT DESIGNATED FOR SALVAGE SHALL BE TRANSPORTED OFFSITE FOR DISPOSAL.
6. INFRASTRUCTURE REQUIRING DEMOLITION, REMOVALS AND/OR SALVAGE INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:
   a.) CHAIN LINK FENCING (PORTION OF);
   b.) BLOWERS AND ASSOCIATED PIPEWORK;
   c.) CELL #1 LAGOON AERATION SYSTEM & ASSOCIATED PIPEWORK, DO PROBE (BOTH LOCATIONS)
   d.) CELL #2 LAGOON AERATION SYSTEM & ASSOCIATED PIPEWORK, DO PROBE (BOTH LOCATIONS)
   e.) STANDBY GENERATOR AND ASSOCIATED CONCRETE PAD;
   f.) ELECTRICAL/INSTRUMENTATION (SEE ELECTRICAL DRAWINGS);
7. CONTRACTOR TO OBSERVE CONFINED SPACE PROTOCOL AS REQUIRED THROUGHOUT THE DEMOLITION AND REMOVALS PROCESS.

LEGEND:

EXISTING
- PROPERTY LINE
- CHAINLINK FENCE
- WATER LINE
- FORCEMAIN
- SANITARY SEWER
- MANHOLE
- PUMP STATION
- VALVE
- WELL
- HYDRANT
- UTILITY POLE
- OVERHEAD UTILITY LINE

NEW
- SILT FENCE

NOT FOR CONSTRUCTION

No	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	RJ

Revision or Issue

wolfville

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

CIVIL

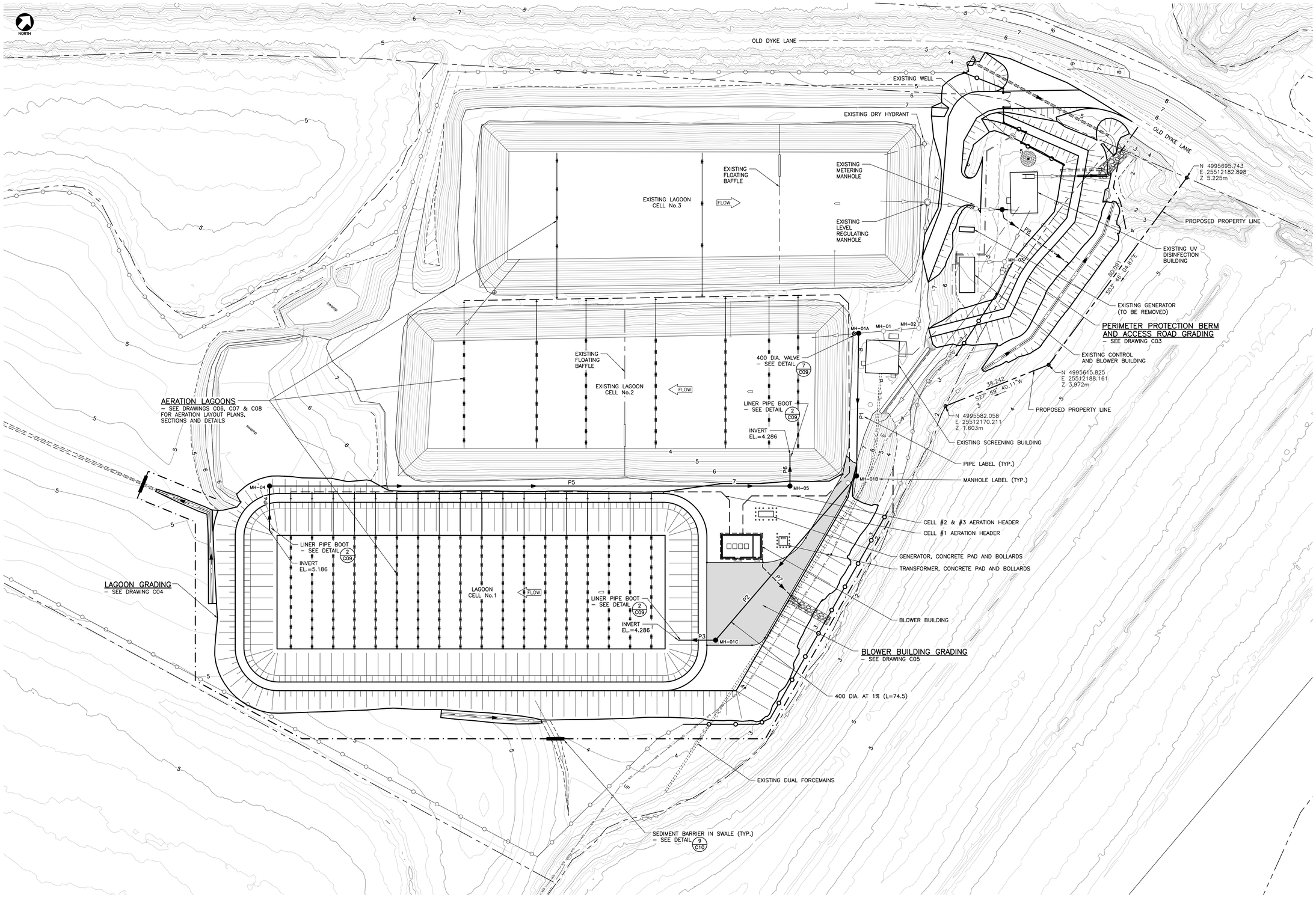
EXIST. CONDITIONS & REMOVALS, EROSION & SEDIMENT CONTROL & NOTES

CBCL

CBCL No 230813.02	Contract No WOL005-2025
Date APR 2024	Scale AS NOTED
Designed DAT	Drawn NHM
Checked DAT	Approved DAT
Sheet No 1 of 10	
Drawing No C01	

DRAWING NAME: Y:\HALIFAX\DATA\PROJECTS\2023\230813.00 TOW WWTP PHASE 2 UPGRADES\44-CAD\01 CIVIL\03 DRAWING SHEETS\230813.00_C01-C05.DWG LAYOUT NAME: C01 EXIST CONDITIONS PLOT DATE: Tuesday, March 11, 2025 2:29:29 PM CAD OPERATOR: NOELM

CBCL-762x1066 TITLE SHEET (ARCH E)



PLAN
1:500

MANHOLE DATA

MANHOLE	COORDINATES	INV. IN	INV. OUT	TOP RIM ELEV.
MH–01	N 4995588.018 E 25512137.220	4.316m (400ø)	4.316m (400ø)	7.949m
MH–01A (1500ø)	N 4995581.892 E 25512131.193	4.306m (400ø)	4.306m (400ø)	7.730m
MH–01B (1200ø)	N 4995543.931 E 25512162.351	4.296m (400ø)	4.296m (400ø)	7.365m
MH–01C (1200ø)	N 4995469.407 E 25512161.779	4.286m (400ø)	4.286m (400ø)	7.405m
MH–04 (1200ø)	N 4995410.847 E 25512010.230	5.186m (400ø)	5.186m (400ø)	7.480m
MH–05 (1200ø)	N 4995526.458 E 25512147.090	4.286m (400ø)	4.286m (400ø)	7.570m

PIPE DATA

PIPE	DIA.	MATERIAL	LENGTH	SLOPE
P1	400	PVC	49.1	1.0%
P2	400	PVC	74.5	1.0%
P3	400	PVC	12.9	0%
P4	400	PVC	15.4	0%
P5	400	PVC	179.2	0.5%
P6	400	PVC	11.0	0%
P7	100	PVC	21.3	3.7%
P8	100	PVC	29.6	0.5%

CELL #1 AERATION HEADER PIPE DATA

PIPE	DIA.	MATERIAL	LENGTH
AH1	300	DI	25
AH2	300	HDPE	43
AH3	250	HDPE	36
AH4	200	HDPE	36
AH5	150	HDPE	25
TOTAL			165

CELL #2 & #3 AERATION HEADER PIPE DATA

PIPE	DIA.	MATERIAL	LENGTH
AH6	250	DI	25
AH7	250	HDPE	125
AH8	200	HDPE	40
AH9	150	HDPE	60
TOTAL			250

LEGEND:

EXISTING
- PROPERTY LINE
- CHAINLINK FENCE
- WATER LINE
- FORCEMAIN
- SANITARY SEWER
- MANHOLE
- PUMP STATION
- VALVE
- WELL
- HYDRANT
- UTILITY POLE
- OVERHEAD UTILITY LINE

NEW
- CHAINLINK FENCE
- WATER LINE
- AERATION PIPING
- SANITARY PIPE
- DRAIN PIPE
- MANHOLE
- VALVE

NEW
- SILT FENCE

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	DAT

Revision or Issue

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

CIVIL

SERVICING PLAN

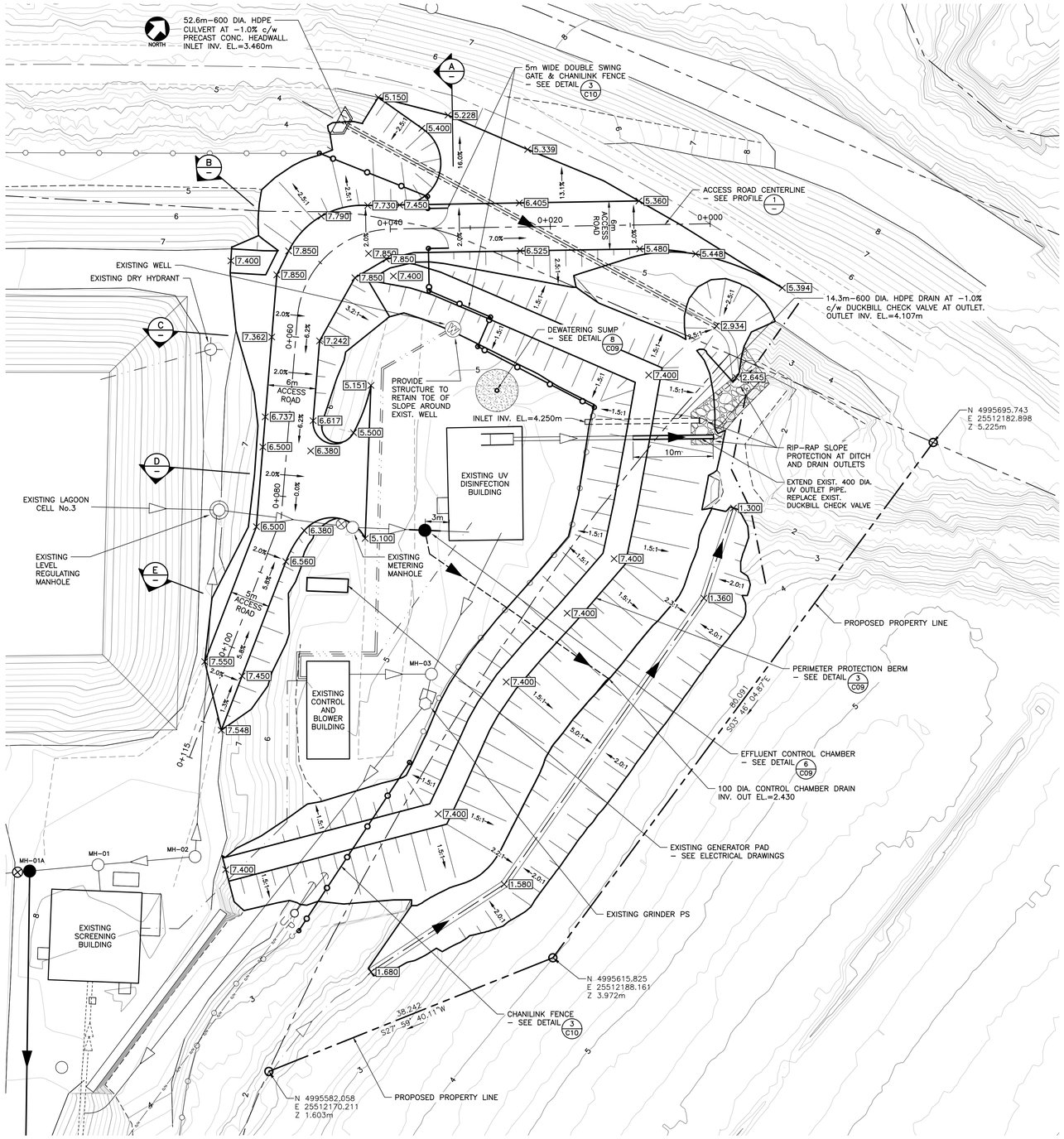
CBCL

REGISTERED PROFESSIONAL ENGINEER IN THE PROVINCE OF NOVA SCOTIA — DANIEL A. TUCKER — 9146

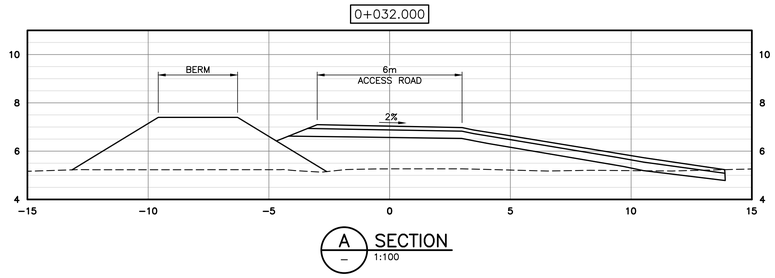
CBCL No	230813.02
Contract No	WOL005-2025
Date	APR 2024
Scale	AS NOTED
Designed	DAT
Drawn	NHM
Checked	DAT
Approved	DAT
Sheet No	2 of 10
Drawing No	C02

DRAWING NAME: Y:\HALIFAX\DATA\PROJECTS\2023\230813.00 TOW WWTP PHASE 2 UPGRADES\44 CAD\01 CIVIL\03 DRAWING SHEETS\230813.00_C01-C05.DWG LAYOUT NAME: C02 SERVICING PLOT DATE: Tuesday, March 11, 2025 2:29:32 PM CAD OPERATOR: NOELM

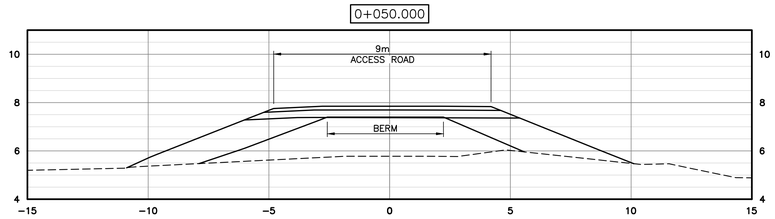
CBCL-762x1066 TITLE SHEET (ARCH E)



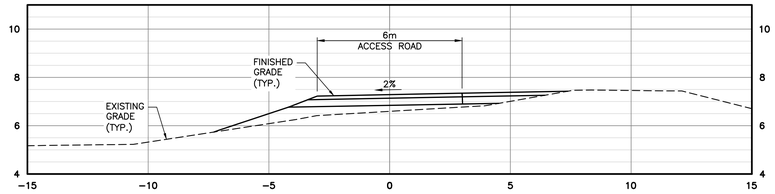
PLAN
1:250



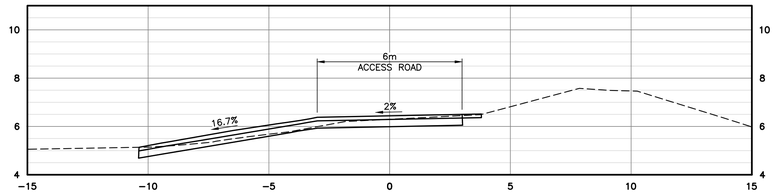
A SECTION
1:100



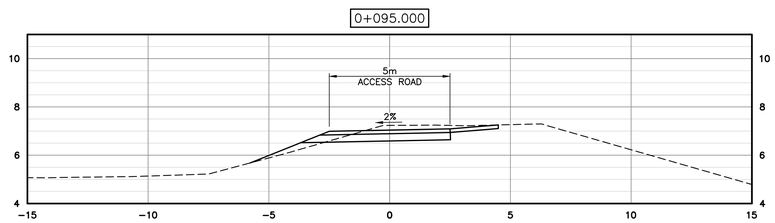
B SECTION
1:100



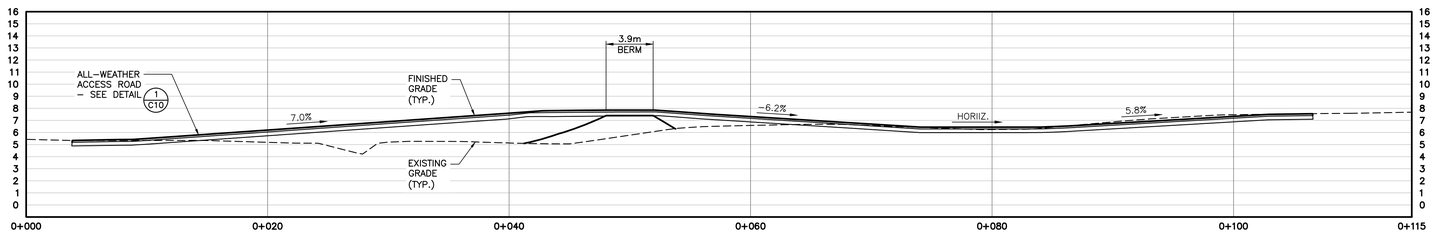
C SECTION
1:100



D SECTION
1:100



E SECTION
1:100



1 PROFILE
1:200

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	NHM

Revision or Issue

TOWN OF WOLFVILLE

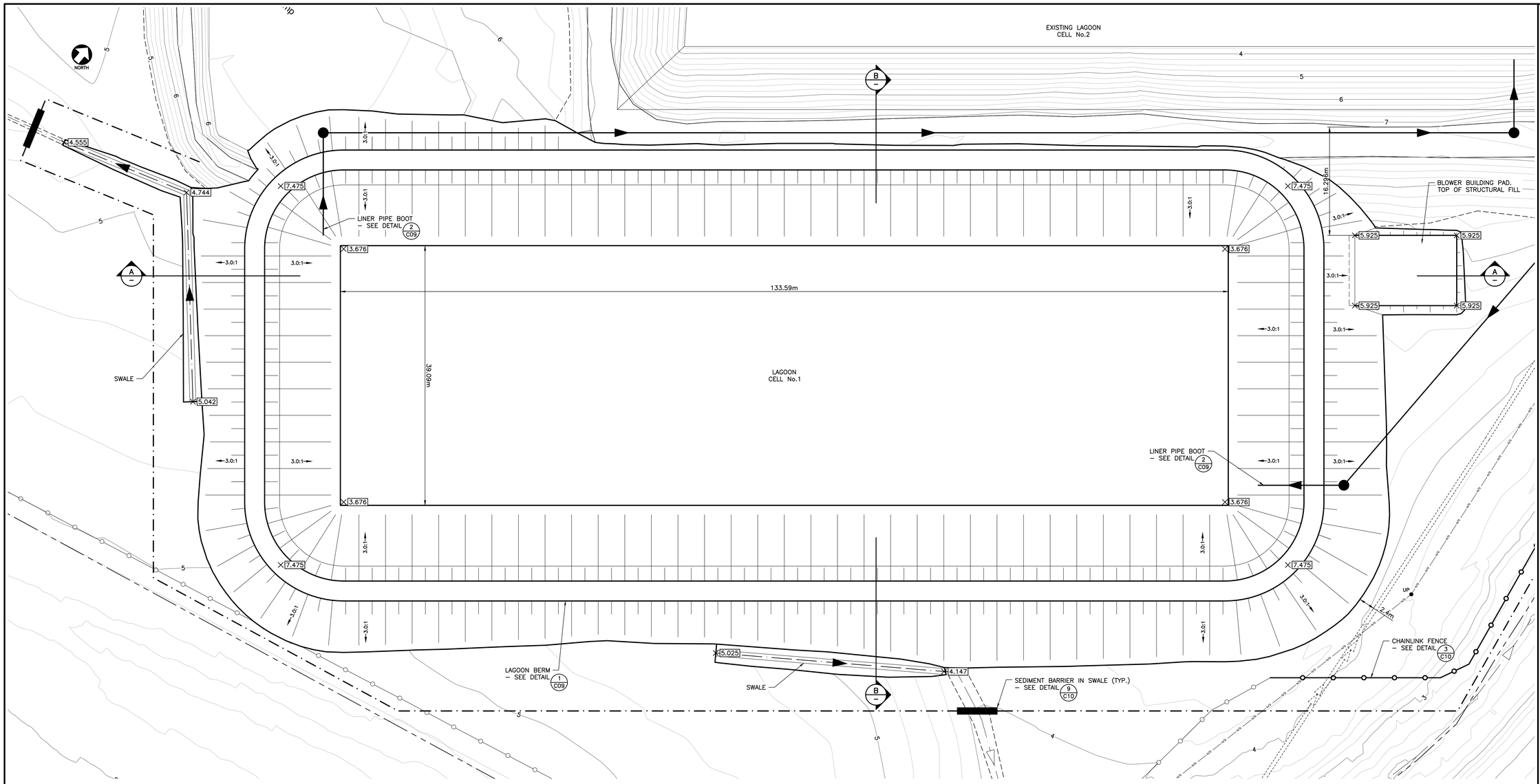
WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

CIVIL

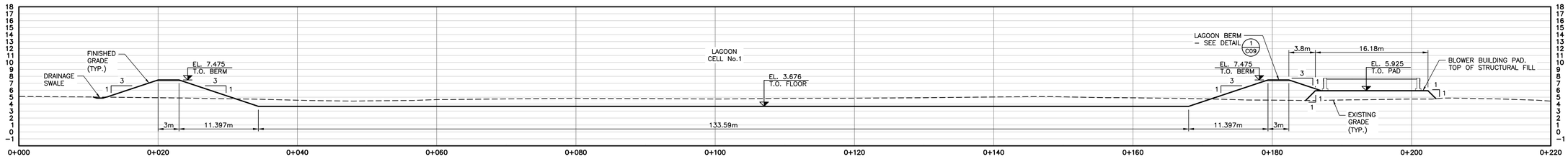
BERM AND ACCESS ROAD GRADING

CBCL

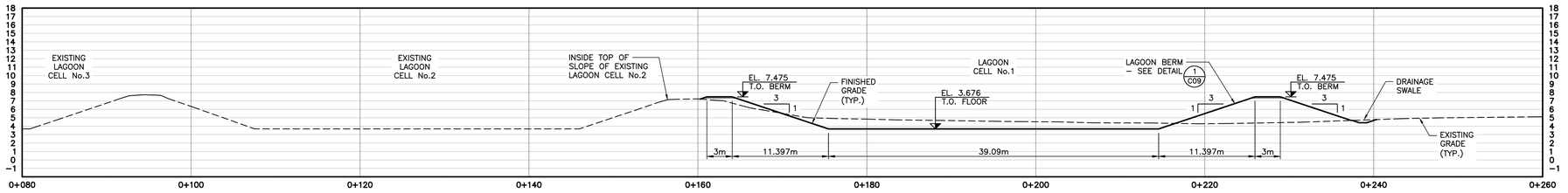
CBCL No 230813.02	Contract No WOL005-2025
Date APR 2024	Scale AS NOTED
Designed DAT	Drawn NHM
Checked DAT	Approved DAT
Sheet No 3 of 10	
Drawing No C03	



PLAN
1:250



A SECTION
1:250



B SECTION
1:250

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	NHM

Revision or Issue

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

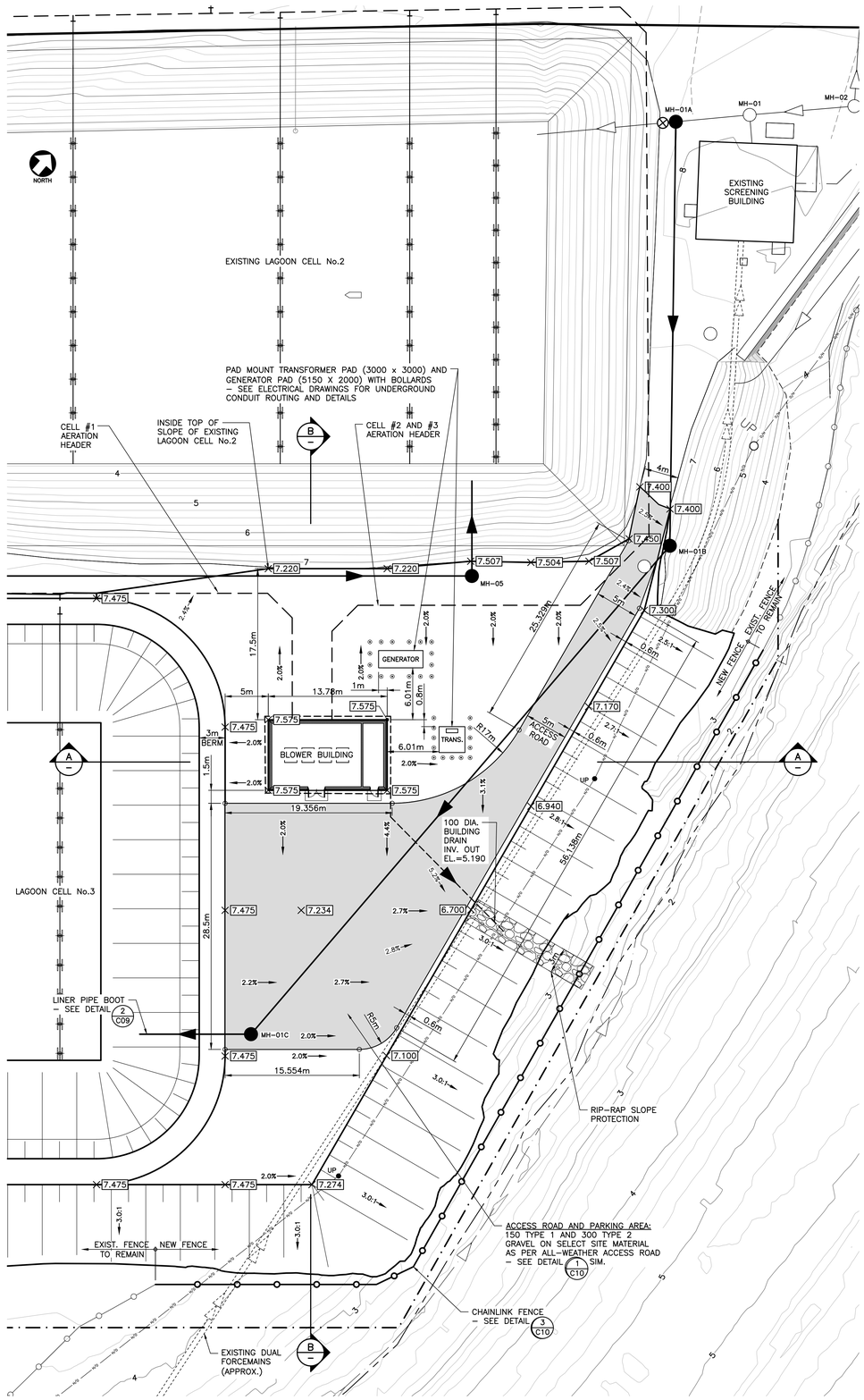
CIVIL

LAGOON GRADING

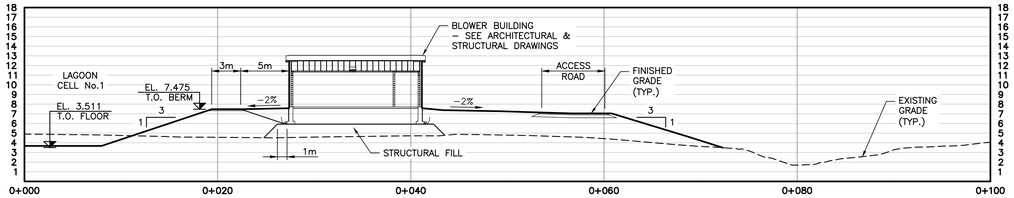
CBCL

CBCL No	230813.02
Contract No	WOL005-2025
Date	APR 2024
Scale	AS NOTED
Designed	DAT
Drawn	NHM
Checked	DAT
Approved	DAT
Sheet No	4 of 10
Drawing No	C04

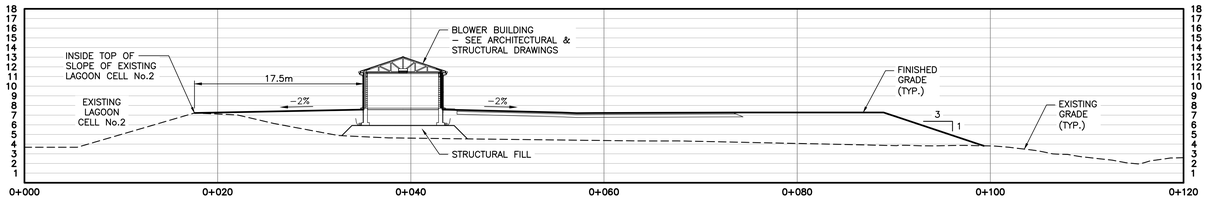
REGISTERED PROFESSIONAL ENGINEER – PROVINCE OF NOVA SCOTIA – 9146 – MAR 11/25



PLAN
1:250



A SECTION
1:250



B SECTION
1:250

NOT FOR CONSTRUCTION

No.	Description	Date	By
A	ISSUED FOR TENDER	MAR 11/25	RJ

Revision or Issue

wolfville

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

CIVIL

BLOWER BUILDING GRADING

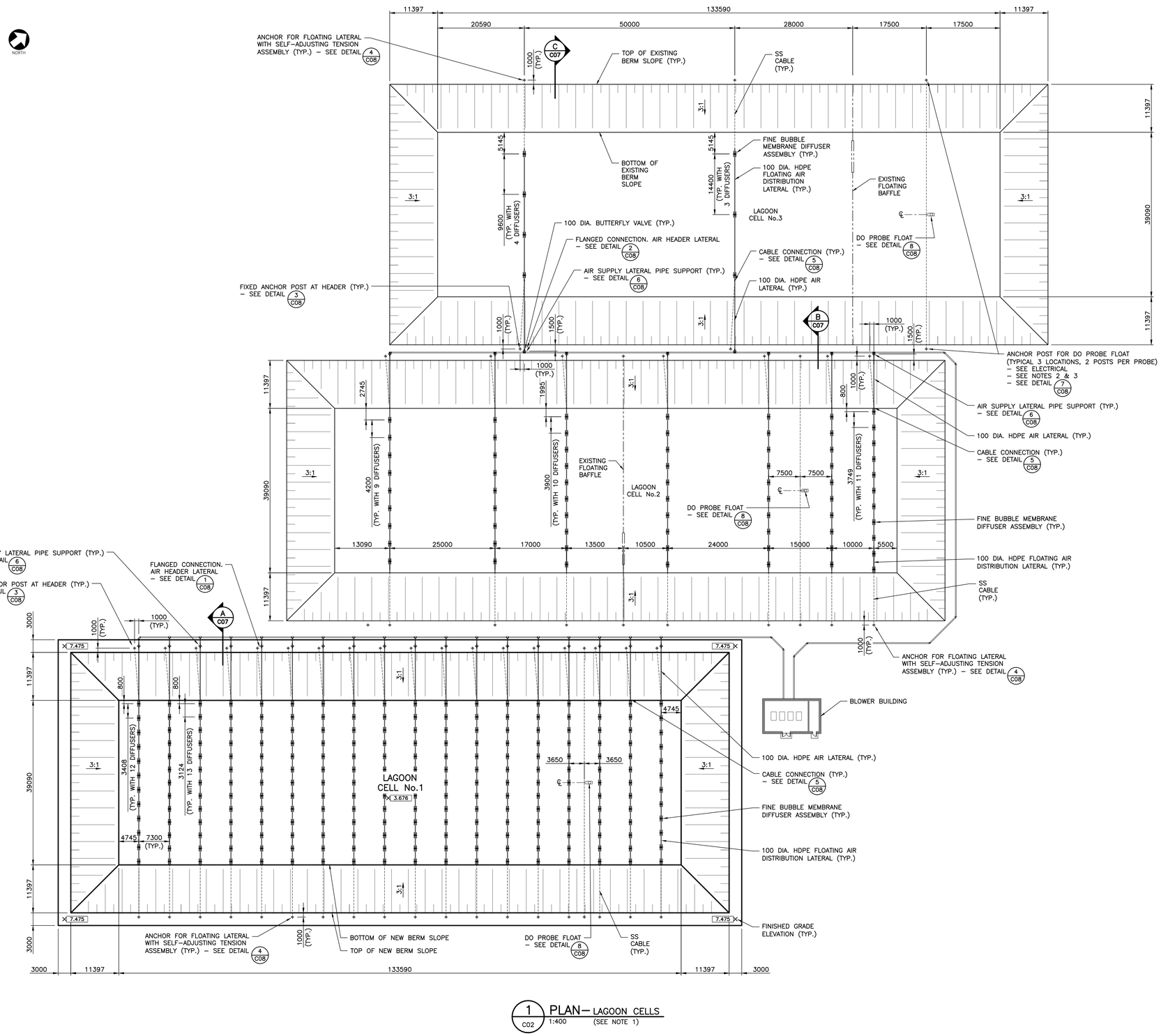
CBCL

CBCL No 230813.02	Contract No WOL005-2025
Date APR 2024	Scale AS NOTED
Designed DAT	Drawn NHM
Checked DAT	Approved DAT
Sheet No 5 of 10	
Drawing No **C05**	

REGISTERED PROFESSIONAL ENGINEER – PROVINCE OF NOVA SCOTIA – DANIEL A. TROKE – 9148 – DATE MAR 11/25

NOTES:

1. LAGOON AERATION SYSTEM LAYOUT IS PRELIMINARY. LAYOUT (INCLUDING LATERAL AND DIFFUSER SPACING) TO BE CONFIRMED DURING SHOP DRAWING REVIEW PROCESS.
2. TRANSMITTER ASSOCIATED WITH DO PROBE TO BE INSTALLED WITHIN EXISTING BLOWER BUILDING (SEE ELECTRICAL).
3. CONTRACTOR TO COMPACT MATERIAL AROUND SONO TUBES IN 300 MM LIFTS TO 98% STANDARD PROCTOR DENSITY.



1 C02 PLAN – LAGOON CELLS
1:400 (SEE NOTE 1)

NOT FOR CONSTRUCTION

No	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	DAT

Revision or Issue

wolfville

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

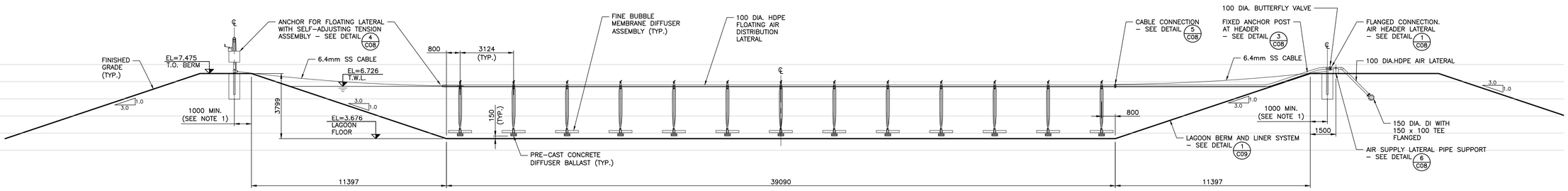
CIVIL

LAGOON PLANS

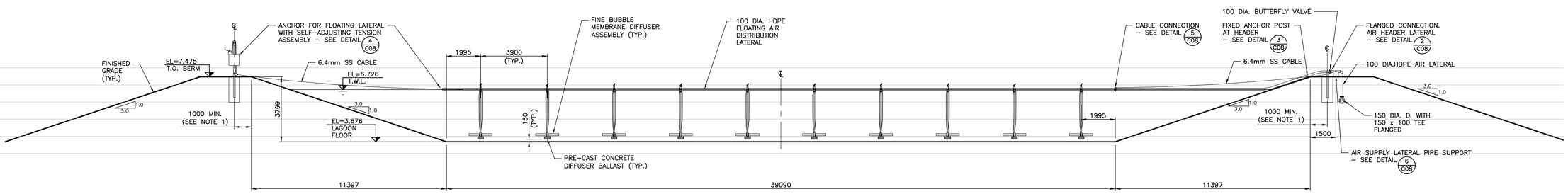
CBCL

PROFESSIONAL ENGINEERS PROVINCE OF NOVA SCOTIA 9146 DAVID TODEL MAR 11/25

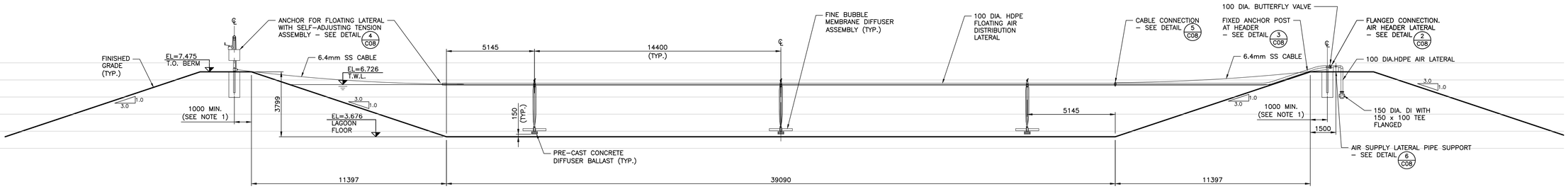
CBCL No	230813.02
Contract No	WOL005-2025
Date	APR 2024
Scale	AS NOTED
Designed	DAT
Drawn	NHM
Checked	DAT
Approved	DAT
Sheet No	6 of 10
Drawing No	C06



A C06 SECTION— AERATED LAGOON #1
1:100



B C06 SECTION— AERATED LAGOON #2
1:100



C C06 SECTION— AERATED LAGOON #3
1:100

NOTES:

1. FIELD LOCATE FIXED AND SELF-TENSIONING ANCHOR POST TO AVOID PENETRATING EXISTING LAGOON LINER SYSTEM.
2. LAGOON AERATION SYSTEM LAYOUT IS PRELIMINARY. LAYOUT (INCLUDING LATERAL AND DIFFUSER SPACING) TO BE CONFIRMED DURING SHOP DRAWING REVIEW PROCESS.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	DAT

Revision or Issue

TOWN OF WOLFVILLE

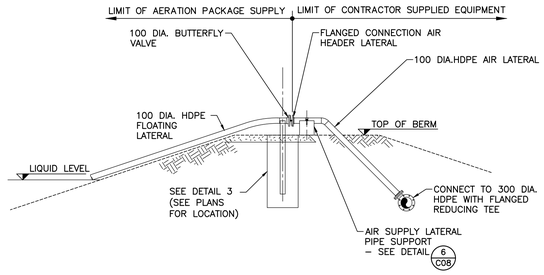
WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

CIVIL

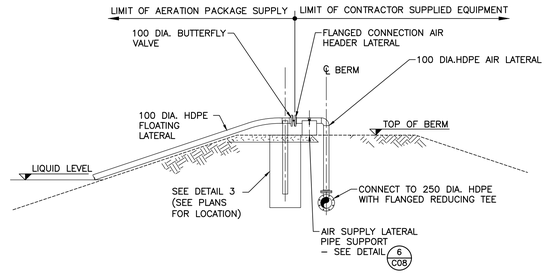
LAGOON SECTIONS

CBCL

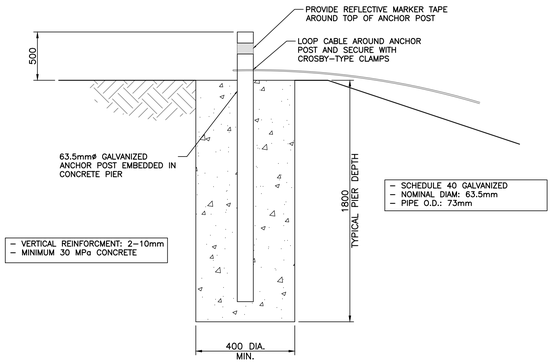
CBCL No 230813.02	Contract No WOL005-2025
Date APR 2024	Scale AS NOTED
Designed DAT	Drawn NHM
Checked DAT	Approved DAT
Sheet No 7 of 10	
Drawing No C07	



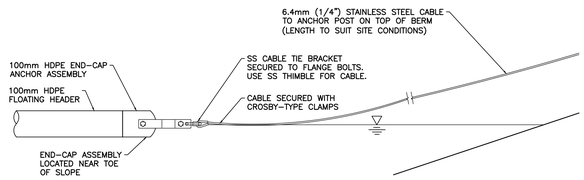
1 DETAIL – AIR HEADER LATERAL
NTS LAGOON No.1

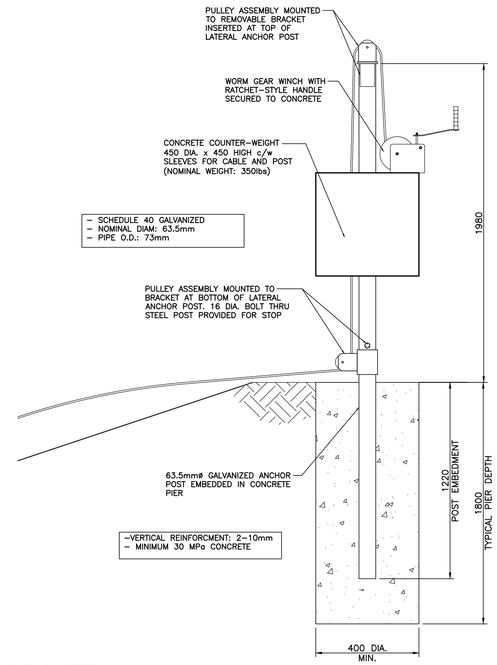


2 DETAIL – AIR HEADER LATERAL
NTS LAGOON No.2 & No.3

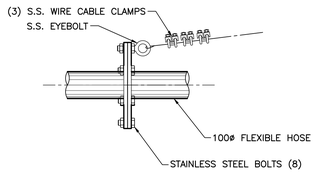


3 DETAIL – ANCHOR POST FOR FLOATING LATERALS
1:15 (STATIC POST – SEE NOTE 3)

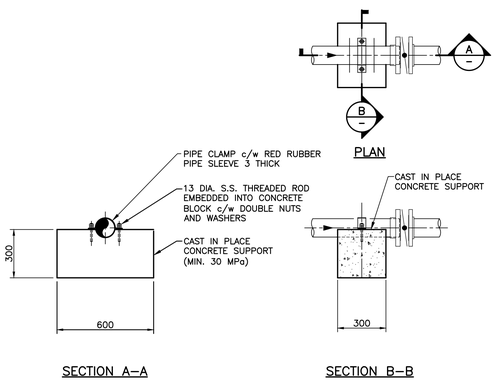




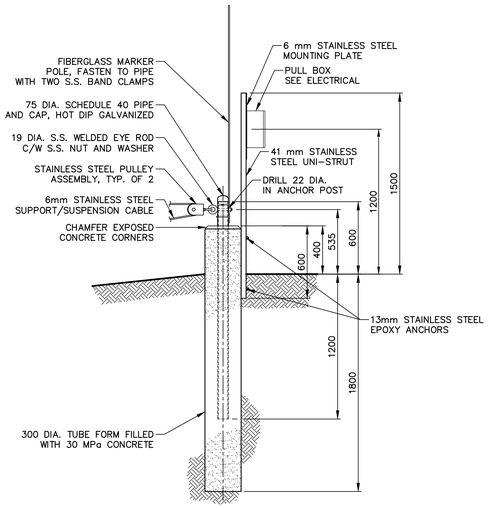
4 DETAIL – ANCHOR FOR FLOATING LATERALS
1:15 (POST WITH SELF–ADJUSTING TENSION ASSEMBLY – SEE NOTE 3)



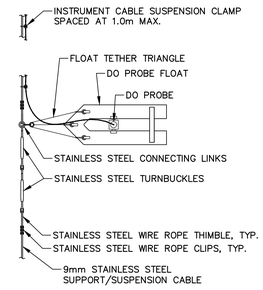
5 DETAIL – CABLE CONNECTION
NTS



6 DETAIL – AIR SUPPLY LATERAL PIPE SUPPORT
1:15



7 DETAIL – ANCHOR POST FOR DO PROBES
C06 N.T.S. (SEE NOTES 1, 2 & 3)



8 DETAIL – DO PROBE FLOAT
C06 N.T.S.

NOTES:

1. TWO ANCHOR POSTS PER DO PROBE. ELECTICAL MOUNTING PLATE ARRANGEMENT ONLY REQUIRED AT ONE OF TWO POST LOCATIONS (SEE ELECTRICAL).
2. TRANSMITTER ASSOCIATED WITH DO PROBE TO BE INSTALLED WITHIN EXISTING BLOWER BUILDING (SEE ELECTRICAL).
3. CONTRACTOR TO COMPACT MATERIAL AROUND SONO TUBES IN 300 MM LIFTS TO 98% STANDARD PROCTOR DENSITY.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	DAT

Revision or Issue

wolfville

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

CIVIL

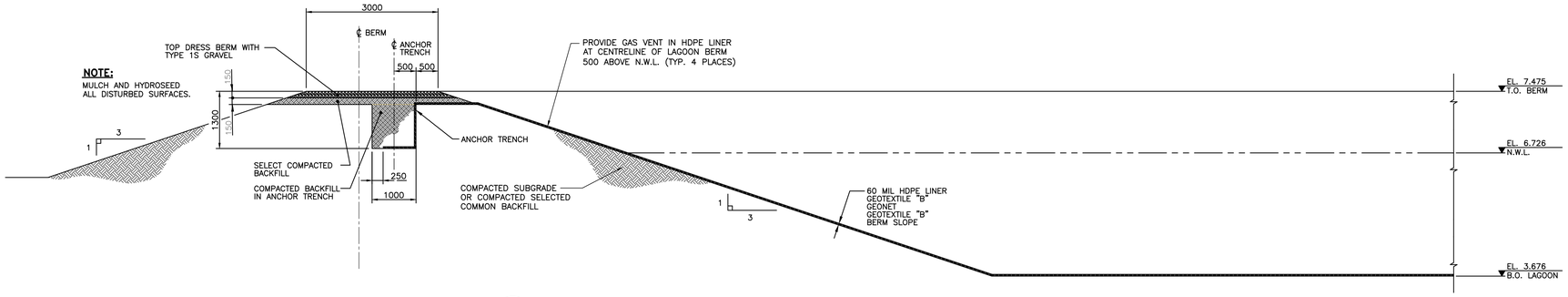
LAGOON DETAILS

CBCL

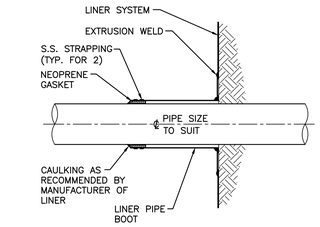
CBCL No 230813.02	Contract No WOL005-2025
Date APR 2024	Scale AS NOTED
Designed DAT	Drawn NHM
Checked DAT	Approved DAT
Sheet No 8 of 10	
Drawing No C08	

DRAWING NAME: Y:\VAULFAX\DATA\PROJECTS\2023\230813.00 TOW WWTP PHASE 2 UPGRADES\44 CAD\01 CIVIL\03 DRAWING SHEETS\230813.00_C08.DWG LAYOUT NAME: C08 PLOT DATE: Tuesday, March 11, 2025 2:29:57 PM CAD OPERATOR: NOELM

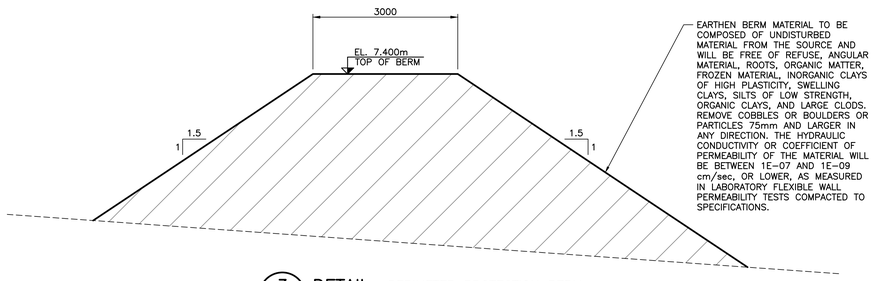
CBCL-762x1066 TITLE SHEET (ARCH E)



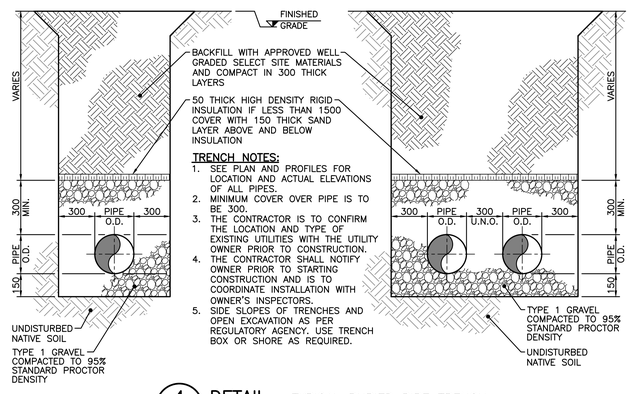
1 C04 DETAIL— LAGOON BERM AND LINER SYSTEM
1:50



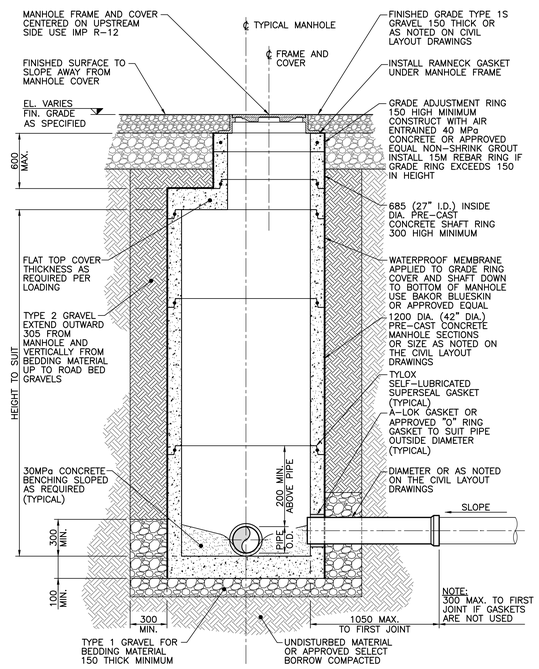
2 – DETAIL— TYPICAL LINER PIPE BOOT
N.T.S.



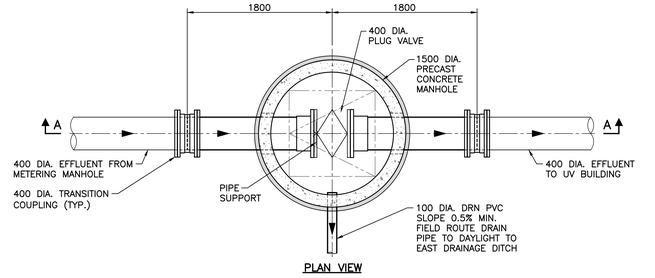
3 C03 DETAIL— PERIMETER PROTECTION BERM
1:50



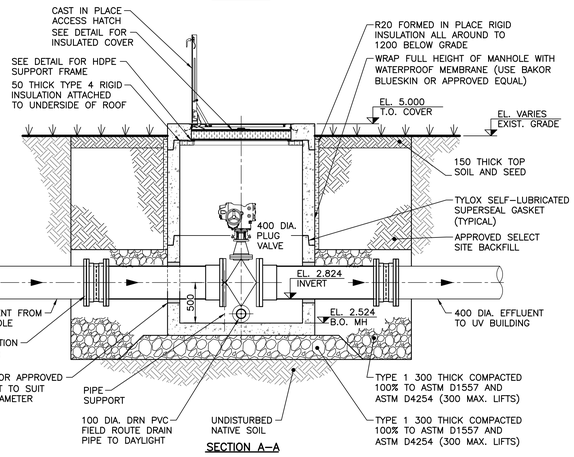
4 C02 DETAIL— TYPICAL BURIED PIPE TRENCH
1:20



5 C02 DETAIL— TYPICAL FLAT TOP MANHOLE
N.T.S.
1200 DIA. PRECAST CONCRETE MANHOLE WITH R-10 FRAME AND COVER

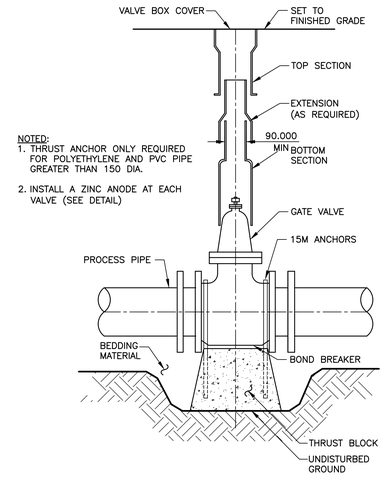


PLAN VIEW



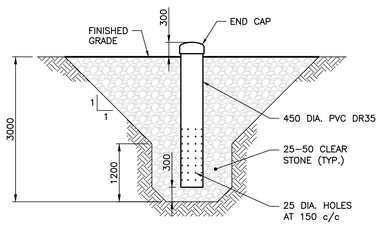
SECTION A–A

6 C03 DETAIL— EFFLUENT CONTROL CHAMBER
1:30

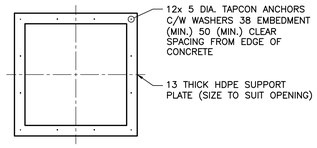


NOTED:
1. THRUST ANCHOR ONLY REQUIRED FOR POLYETHYLENE AND PVC PIPE GREATER THAN 150 DIA.
2. INSTALL A ZINC ANODE AT EACH VALVE (SEE DETAIL)

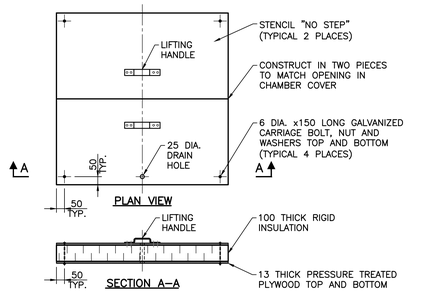
7 C02 DETAIL— TYPICAL BURIED VALVE BOX INSTALLATION
1:10



8 C03 DETAIL— DEWATERING SUMP
1:50



9 – DETAIL— HDPE SUPPORT FRAME
1:20
FOR INSULATED COVER



SECTION A–A

10 – DETAIL— INSULATED COVER
1:15

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	DAT

Revision or Issue

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

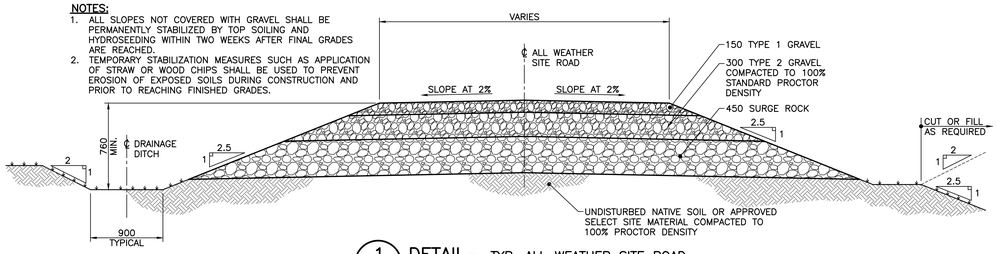
CIVIL

CIVIL DETAILS SHEET 1 OF 2

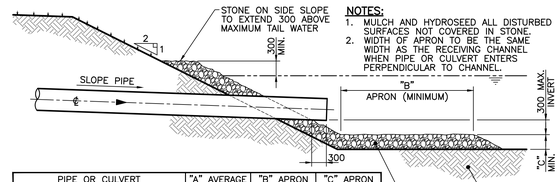
CBCL

CBCL No	23081 3.02
Contract No	WOL005-2025
Date	APR 2024
Scale	AS NOTED
Designed	DAT
Drawn	NHM
Checked	DAT
Approved	DAT
Sheet No	9 of 10
Drawing No	C09

NOTES:
1. ALL SLOPES NOT COVERED WITH GRAVEL SHALL BE PERMANENTLY STABILIZED BY TOP SOILING AND HYDROSEEDING WITHIN TWO WEEKS AFTER FINAL GRADES ARE REACHED.
2. TEMPORARY STABILIZATION MEASURES SUCH AS APPLICATION OF STRAW OR WOOD CHIPS SHALL BE USED TO PREVENT EROSION OF EXPOSED SOILS DURING CONSTRUCTION AND PRIOR TO REACHING FINISHED GRADES.



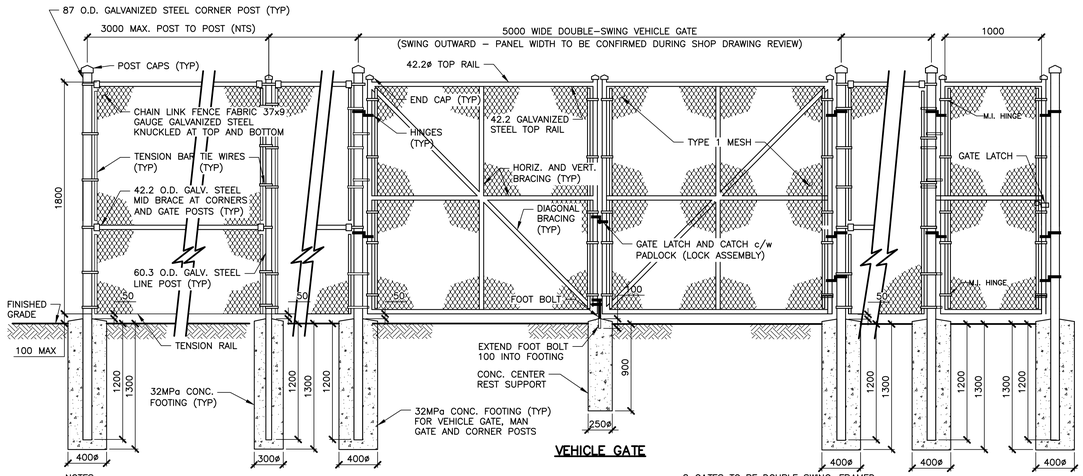
1 C02 DETAIL— TYP. ALL WEATHER SITE ROAD
1:30



NOTES:
1. MULCH AND HYDROSEED ALL DISTURBED SURFACES NOT COVERED IN STONE.
2. WIDTH OF APRON TO BE THE SAME WIDTH AS THE RECEIVING CHANNEL WHEN PIPE OR CULVERT ENTERS PERPENDICULAR TO CHANNEL.

PIPE OR CULVERT NOMINAL OUTSIDE DIAMETER	"A" AVERAGE STONE SIZE	"B" APRON LENGTH	"C" APRON THICKNESS
UP TO 1200 (48")	150 (6")	6x PIPE DIA.	300 (12")
ABOVE 1200 (48") TO 2100 (84")	300 (12")	8x PIPE DIA.	450 (18")
ABOVE 2100 (84") TO 3000 (120")	600 (24")	10x PIPE DIA.	750 (30")

2 C02 DETAIL— PIPE OR CULVERT OUTLET
1:50 RIP-RAP SIDE SLOPE AND APRON



VEHICLE GATE

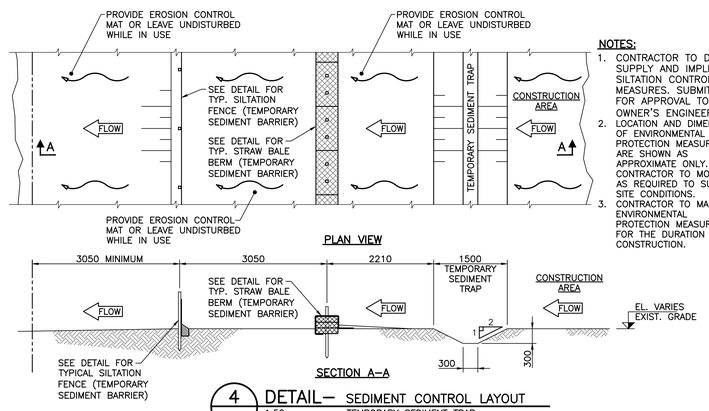
PERSONNEL GATE

NOTES:
1. INSTALL CORNER POSTS WHERE CHANGES IN ALIGNMENT EXCEED 10°.
2. INSTALL BRACE BETWEEN END AND GATE POSTS AND NEAREST LINE POST. INSTALL BRACES ON BOTH SIDES OF CORNER AND STRAINING POSTS.
3. INSTALL OVERHANG TOPS AND CAPS.
4. PLACE TENSION BAR BANDS @ 3000 INTERVALS.
5. SECURE FABRIC TO TOP RAILS, LINE POSTS AND BOTTOM TENSION RAIL WITH TIE WIRES AT 450mm INTERVALS.
6. ALL FENCE FABRIC, STEEL FRAMEWORK, GATES AND INSTALLATION TO CONFORM WITH CAN/CGSB-138.1 THROUGH 138.4.
7. POSTS TO BE SCHEDULE 40, HOT DIPPED GALVANIZED STEEL COATED WITH A 3mil ELECTROSTATICALLY APPLIED POLYESTER COATING (BLACK) TO THE FOLLOWING SIZES:

POST DESCRIPTION	O.D.	O.D.
LINE POSTS	60	300
END, GATE, & CNR POSTS	87	400
RAILS	42	N/A

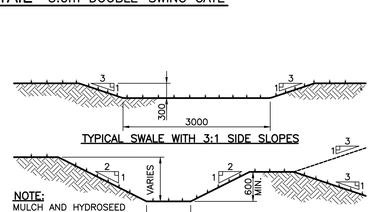
8. GATES TO BE DOUBLE SWING, FRAMED WITH 42 O.D. FRAMING, 2.0mm WALL THICKNESS.
9. PROVIDE CLEARANCES BETWEEN BOTTOM OF FENCE AND GROUND SURFACE OF 150mm.

3 C02 DETAIL— 5.0m DOUBLE-SWING GATE
N.T.S. CHAINLINK FENCE WITH



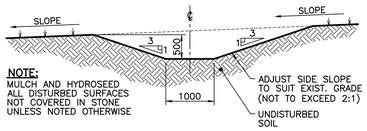
NOTES:
1. CONTRACTOR TO DESIGN, SUPPLY AND IMPLEMENT SILTATION CONTROL MEASURES. SUBMIT PLAN FOR APPROVAL TO OWNER'S ENGINEER.
2. LOCATION AND DIMENSIONS OF ENVIRONMENTAL PROTECTION MEASURES ARE SHOWN AS APPROXIMATE ONLY. CONTRACTOR TO MODIFY AS REQUIRED TO SUIT ON SITE CONDITIONS.
3. CONTRACTOR TO MAINTAIN ENVIRONMENTAL PROTECTION MEASURES FOR THE DURATION OF CONSTRUCTION.

4 – DETAIL— SEDIMENT CONTROL LAYOUT
1:50 TEMPORARY SEDIMENT TRAP, STRAW BALE BERM AND SILTATION FENCE SEDIMENT BARRIERS



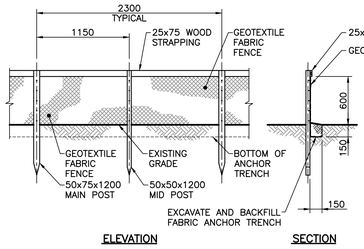
NOTE:
MULCH AND HYDROSEED ALL DISTURBED SURFACES NOT COVERED IN STONE UNLESS NOTED OTHERWISE

5 – DETAIL— DRAINAGE DITCH AND SWALE
1:50



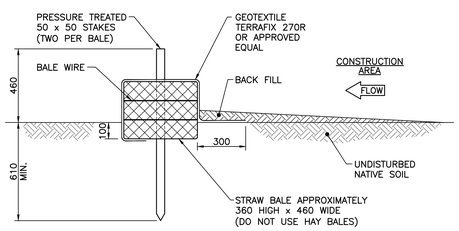
NOTE:
MULCH AND HYDROSEED ALL DISTURBED SURFACES NOT COVERED IN STONE UNLESS NOTED OTHERWISE

6 – DETAIL— TYPICAL INTERCEPTOR DITCH
1:50

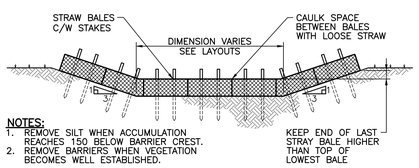


NOTES:
1. ATTACH GEOTEXTILE TO MAIN POSTS WITH 14 GAUGE x25 LONG GALVANIZED ROOFING NAILS.
2. ATTACH GEOTEXTILE TO MID POSTS AND WOOD STRAPPING WITH 17 GAUGE x13 LONG STAPLES.
3. SEDIMENT CONTROL FENCE TO BE INSTALL UP SLOPE OF AREA TO BE PROTECTED.
4. MINIMIZE JOINTS IN GEOTEXTILE AND MAKE SPLICES OF AT MAIN POST WITH 150 MIN. OVERLAP.
5. SEDIMENT FENCE SHALL BE TERRAFENCE, ARMTEC SILT FENCE OR APPROVED EQUAL. TEMPORARY SILTATION FENCING SHALL BE INSTALLED DURING CONSTRUCTION WHEN REQUIRED.

7 C01 DETAIL— TYPICAL SILTATION FENCE
1:30 TEMPORARY SEDIMENT BARRIER

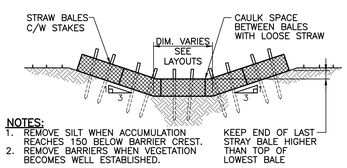


8 – DETAIL— TYPICAL STRAW BALE BERM
1:15 TEMPORARY SEDIMENT BARRIER



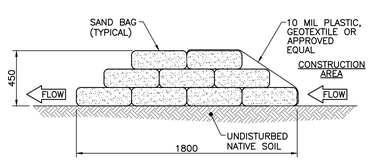
NOTES:
1. REMOVE SILT WHEN ACCUMULATION REACHES 150 BELOW BARRIER CREST.
2. REMOVE BARRIERS WHEN VEGETATION BECOMES WELL ESTABLISHED.

9 – DETAIL— SEDIMENT BARRIER IN SWALE
1:50 TEMPORARY SEDIMENT BARRIER STRAW BALES IN SWALE WITH 3:1 SIDE SLOPES



NOTES:
1. REMOVE SILT WHEN ACCUMULATION REACHES 150 BELOW BARRIER CREST.
2. REMOVE BARRIERS WHEN VEGETATION BECOMES WELL ESTABLISHED.

10 – DETAIL— SEDIMENT BARRIER IN DITCH
1:50 TEMPORARY SEDIMENT BARRIER STRAW BALES IN DITCH WITH 3:1 SIDE SLOPES



11 – DETAIL— TYPICAL SAND BAG BERM
1:20 TEMPORARY SEDIMENT BARRIER

NOTES:
1. DRAWINGS IN GENERAL ARE TO SCALE BUT FIGURED DIMENSIONS TAKE PRECEDENCE. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR THE ACCURACY OF INFORMATION SCALED FROM THE DRAWINGS.
2. ALL DIMENSIONS USE METRIC UNITS. DIMENSIONS SHOWN IN MILLIMETERS AND POINT ELEVATIONS AS METERS (UNLESS NOTED OTHERWISE).
3. SEE CIVIL DRAWING C01 FOR GENERAL NOTES.
4. SEE CIVIL DRAWING C08 TO C10 FOR DETAILS.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	DAT

Revision or Issue

wolfville

TOWN OF WOLFVILLE

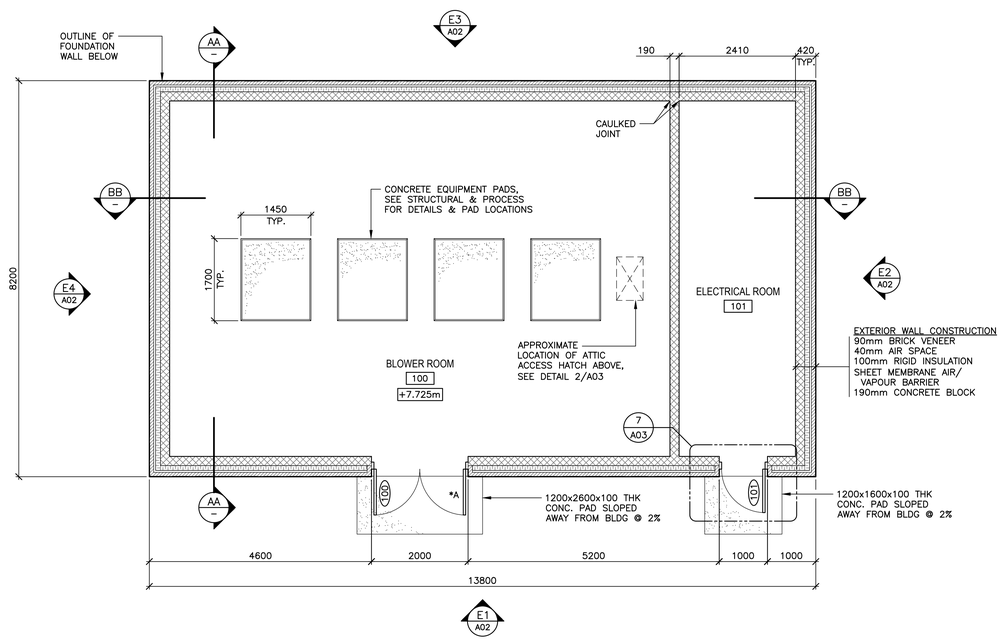
WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

CIVIL

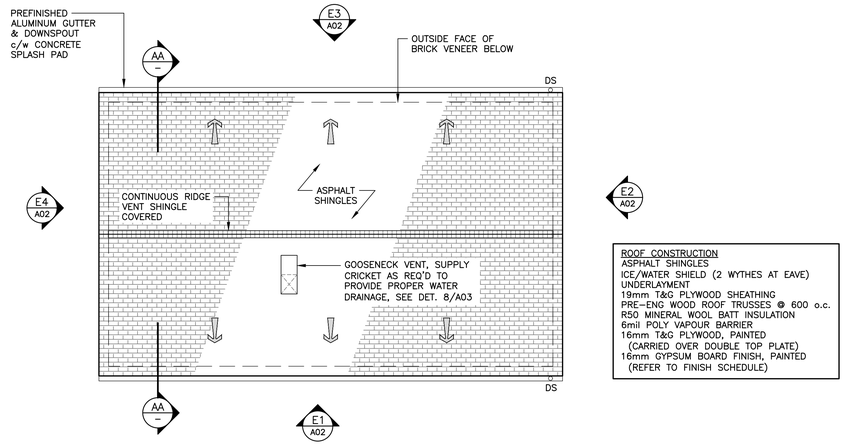
CIVIL DETAILS SHEET 2 OF 2

CBCL

CBCL No 230813.02	Contract No WOL005-2025
Date APR 2024	Scale AS NOTED
Designed DAT	Drawn NHM
Checked DAT	Approved DAT
Sheet No 10 of 10	
Drawing No. C10	

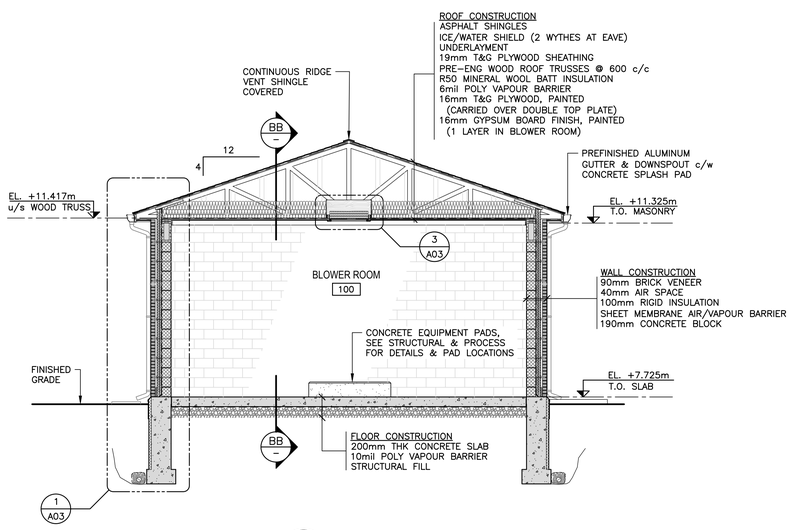


FLOOR PLAN
1:50

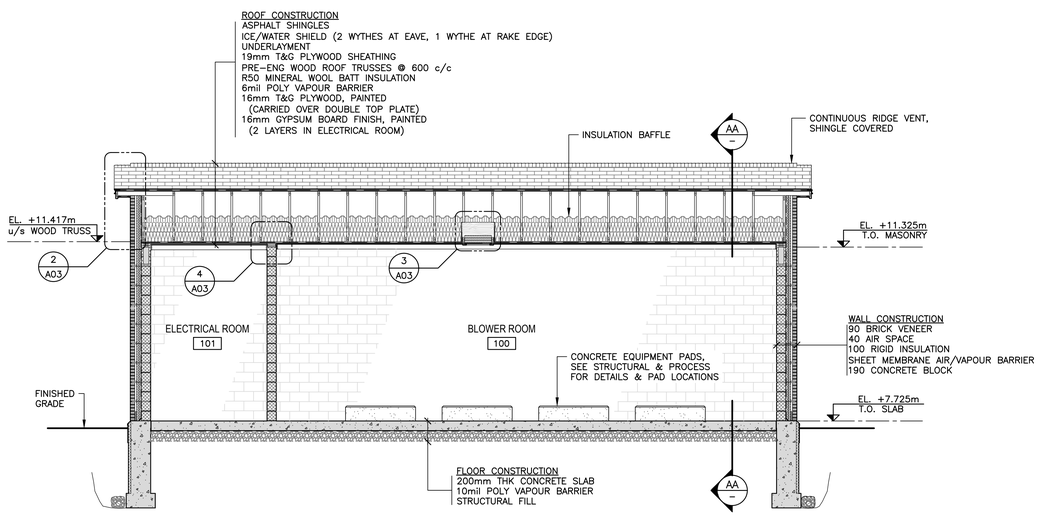


ROOF PLAN
1:75

ROOF CONSTRUCTION
ASPHALT SHINGLES
ICE/WATER SHIELD (2 WYTHES AT EAVE)
UNDERLAYMENT
19mm T&G PLYWOOD SHEATHING
PRE-ENG WOOD ROOF TRUSSES @ 600 o.c.
R50 MINERAL WOOL BATT INSULATION
6mil POLY VAPOUR BARRIER
16mm T&G PLYWOOD, PAINTED
(CARRIED OVER DOUBLE TOP PLATE)
16mm GYPSUM BOARD FINISH, PAINTED
(REFER TO FINISH SCHEDULE)



AA SECTION
1:50



BB SECTION
1:50

NOTES:

1. CONTRACTOR TO CONFIRM ALL SITE CONDITIONS AND DIMENSIONS.
2. ALL WALL, FLOOR, AND ROOF PENETRATION LOCATION AND SIZES TO BE COORDINATED WITH MECHANICAL, ELECTRICAL, AND STRUCTURAL.

LEGEND:

DS	DOWNSPOUT LOCATION
XXX	DOOR TAG, SEE DOOR SCHEDULE
⇒	DIRECTION OF WATER FLOW
*A	ACTIVE DOOR LEAF

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	

Revision or Issue

TOWN OF WOLFVILLE

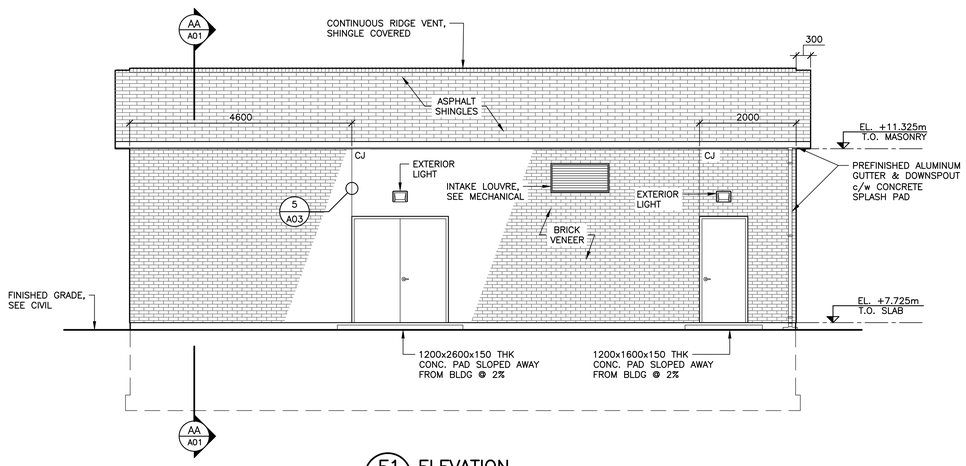
WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

ARCHITECTURAL

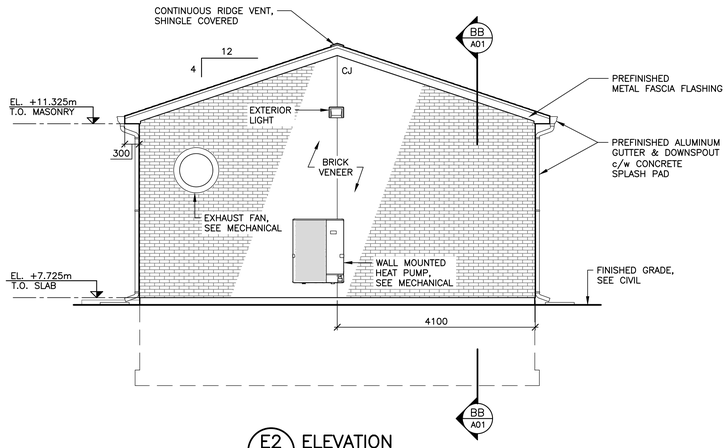
BLOWER BUILDING PLANS AND SECTIONS

CBCL

CBCL No 230813.02	Contract No WOL005-2025
Date APR 2024	Scale AS NOTED
Designed MRH	Drawn JVP
Checked MRH	Approved DAT
Sheet No 1 of 3	
Drawing No A01	



E1 ELEVATION
1:50



E2 ELEVATION
1:50

E3 ELEVATION
1:50

E4 ELEVATION
1:50

NOTES:

1. CONTRACTOR TO CONFIRM ALL SITE CONDITIONS AND DIMENSIONS.
2. ALL WALL, FLOOR, AND ROOF PENETRATION LOCATION AND SIZES TO BE COORDINATED WITH MECHANICAL, ELECTRICAL, AND STRUCTURAL.

LEGEND:

CJ MASONRY VENEER CONTROL JOINT LOCATION

NOT FOR CONSTRUCTION

No	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	JVP

Revision or Issue

wolfville

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT
PHASE 2 UPGRADES

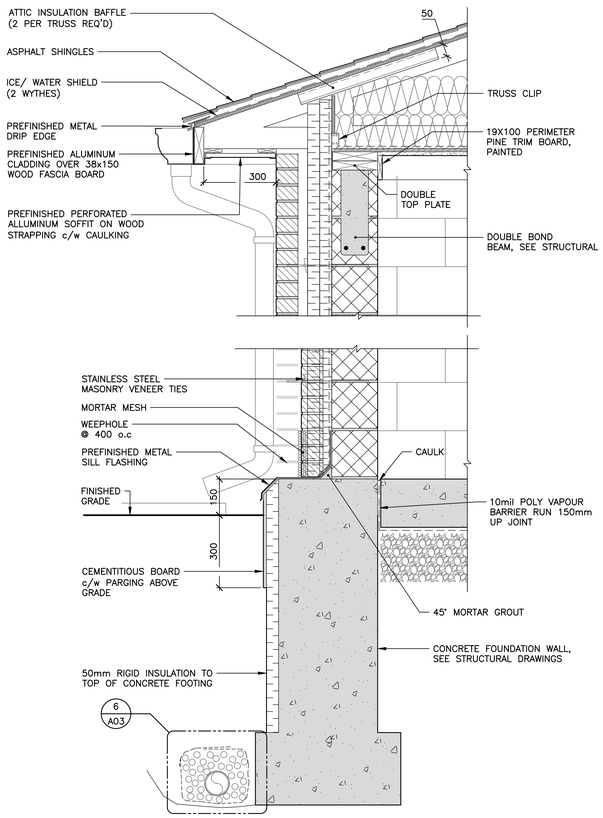
ARCHITECTURAL

BLOWER BUILDING
ELEVATIONS

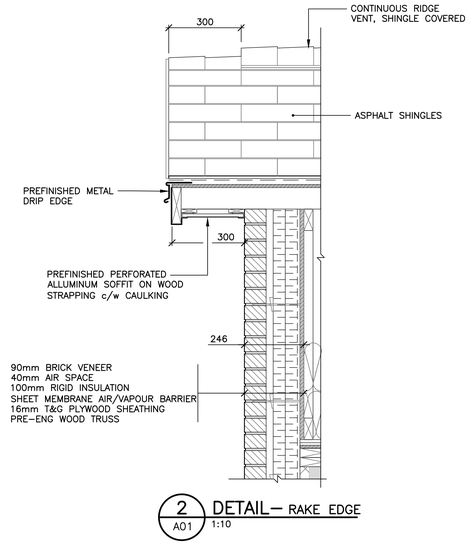
CBCL

REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF NOVA SCOTIA
DAT MACNEIL
9148
SIGNATURE (MAR 11/25)

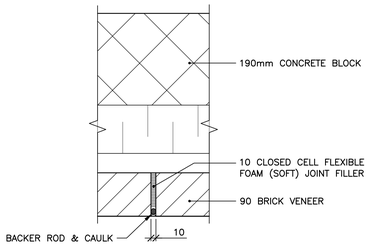
CBCL No 230813.02	Contract No WOL005-2025
Date APR 2024	Scale AS NOTED
Designed MRH	Drawn JVP
Checked MRH	Approved DAT
Sheet No 2 of 3	
Drawing No A02	



1 DETAIL A03 1:10

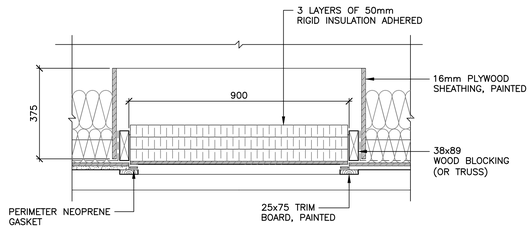


2 DETAIL– RAKE EDGE A01 1:10

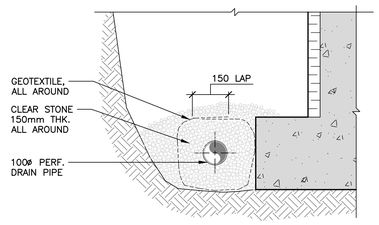


NOTE: WEEP HOLES TO BE INSTALLED @ 1st VERT. BED JOINT EACH SIDE OF CONTROL JOINT

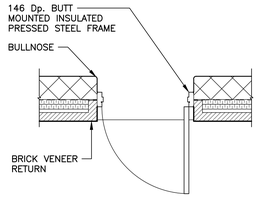
5 DETAIL– CONTROL JOINT A02 1:10



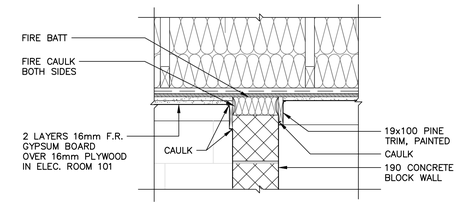
3 DETAIL–ATTIC ACCESS HATCH 900x550 A01 1:10



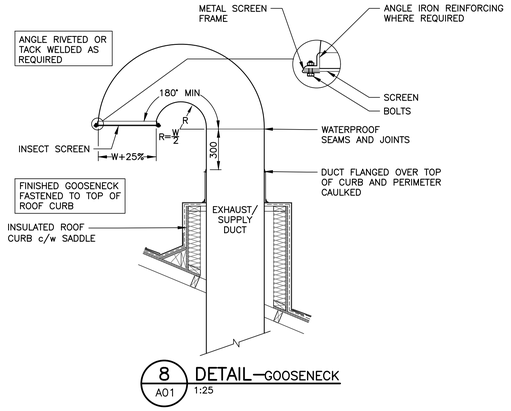
6 DETAIL– DRAIN A01 1:10



7 DETAIL A01 1:10



4 DETAIL A01 1:10



8 DETAIL–GOOSENECK A01 1:25

ROOM FINISH SCHEDULE

ROOM	No.	FLOOR		BASE	WALL		CEILING			NOTES
		MATERIAL	FINISH		MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
BLOWER ROOM	100	CONCRETE	EP	–	CB	PAINT	1 LAYER 16mm GYPSUM BOARD	PAINT	3660mm A.F.F.	
ELECTRICAL ROOM	101	CONCRETE	EP	–	CB	PAINT	2 LAYERS 16mm GYPSUM BOARD	PAINT	3676mm A.F.F.	1 HOUR FIRE RATED ROOM. FIRE SEAL ALL WALL PENETRATIONS

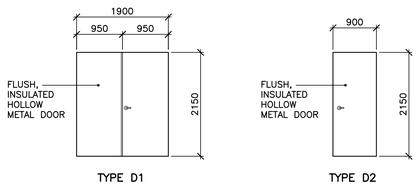
LEGEND: CB–CONCRETE BLOCK EP–EPOXY A.F.F.–ABOVE FINISHED FLOOR

DOOR SCHEDULE

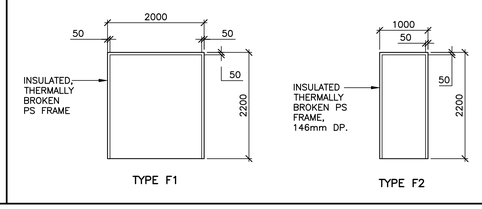
DOOR										DOOR & FRAME RATING	FRAME						REMARKS
DOOR NO.	FROM	TO	HAND	TYPE	MATERIAL	GLASS	SIZE	FINISH	HDWR TYPE		TYPE	MATERIAL	GLASS	SIZE	MOUNT	FINISH	
100	EXTERIOR	100	LHR/RHR	D1	HMD/IN	–	2–950X2150X45	PAINT	1	–	F1	PS/TB/IN	–	146mm Dp.	BUTT	PAINT	RIGHT HAND DOOR ACTIVE
101	EXTERIOR	101	RHR	D2	HMD/IN	–	900x2150x45	PAINT	2	–	F2	PS/TB/IN	–	146mm Dp.	BUTT	PAINT	

LEGEND: HMD–HOLLOW METAL DOOR TB–THERMALLY BROKEN IN–INSULATED PS–PRESSED STEEL TEMP–TEMPERED GLAZING BUTT–BUTT MOUNTED

DOOR TYPES



FRAME TYPES



HARDWARE TYPES

HARDWARE TYPE 1:

6	BUTT HINGES	FBB191 114 X 102	NRP C26D
1	EXIT DEVICE	6008–PB–440F	626
1	DOOR CLOSER	351–P3	EN
1	OVERHEAD STOP	598H	C26D
1	ASTRAGAL	W–8	AL
2	SURFACE BOLTS	276D	305 C26D
1	THRESHOLD	CT–47	AL
1	WEATHERSTRIPPING SET	W–15 +W–22 @ ASTRAGAL	AL
2	DOOR SWEEPS	W–24S	AL
2	KICKPLATES	K10A	305 AL

HARDWARE TYPE 2:

3	BUTT HINGES	FBB191 114 X 102	NRP C26D
1	EXIT DEVICE	21–8913	LL EN
1	DOOR CLOSER	351–P3	EN
1	OVERHEAD STOP	598H	C26D
1	THRESHOLD	CT–47	AL
1	WEATHERSTRIPPING SET	W–15	AL
1	DOOR SWEEP	W–24S	AL
1	KICKPLATE	K10A	305 AL

HARDWARE MANUFACTURER'S PRODUCT NUMBERS USED IN THE SPECIFICATIONS ARE AS FOLLOWS:

.1 HINGES – "STANLEY"
.2 LOCKSET, ETC. – "YALE"
.3 DOOR CLOSER – "SARGENT"
.4 OVERHEAD STOP – "SARGENT"
.5 KICKPLATE – "HAGER"
.6 THRESHOLD – "K.N. CROWDER"
.7 WEATHERSTRIPPING SET – "K.N. CROWDER"
.8 DOOR SWEEPS – "K.N. CROWDER"
.9 DOOR STOP – "HAGER"

NOTES:

1. CONTRACTOR TO CONFIRM ALL SITE CONDITIONS AND DIMENSIONS.
2. ALL WALL, FLOOR, AND ROOF PENETRATION LOCATION AND SIZES TO BE COORDINATED WITH MECHANICAL, ELECTRICAL, AND STRUCTURAL.

NOT FOR CONSTRUCTION

No	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	

Revision or Issue

wolfville

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT
PHASE 2 UPGRADES

ARCHITECTURAL

DETAILS AND SCHEDULES

CBCL

REGISTERED PROFESSIONAL ENGINEER PROVINCE OF NOVA SCOTIA MARK HOLDEN 9146

CBCL No 230813.02	Contract No WOL005-2025
Date APR 2024	Scale AS NOTED
Designed MRH	Drawn JVP
Checked MRH	Approved DAT
Sheet No 3 of 3	
Drawing No A03	

GENERAL NOTES:

1. ALL WORK AND MATERIALS TO CONFORM TO THE REQUIREMENTS OF THE NATIONAL BUILDING CODE OF CANADA, 2015, AND ANY APPLICABLE ACTS OF THE AUTHORITY HAVING JURISDICTION.
2. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT OF NOVA SCOTIA.
3. NO ALTERATIONS TO STRUCTURAL DETAILS TO BE MADE WITHOUT THE WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER. ALL OPENINGS IN SLABS OR WALLS ARE TO BE PRE-FORMED AND ALL HOLES SLEEVED. CONSTRUCTION ERRORS ARE TO BE DOCUMENTED AND REPORTED TO THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH SUBSEQUENT WORK.
4. PERIODIC AND DISCRETIONARY SITE OBSERVATIONS ARE MADE AT THE JOB SITE BY THE STRUCTURAL ENGINEER AND ARE NECESSARILY LIMITED IN SCOPE TO OBSERVATION OF WORK IN PROGRESS AT THE TIME OF THE SITE OBSERVATION. THESE SITE OBSERVATIONS DO NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO PROVIDE CONTINUOUS ON-SITE SUPERVISION OF ALL STRUCTURAL WORK TO ENSURE THAT BOTH THE INTENT AND DETAILS OF THE DRAWINGS AND SPECIFICATIONS ARE BEING FOLLOWED.
5. THE CONTRACTOR DETAILS SHOWN ON THE STRUCTURAL DRAWINGS WITH ALL OTHER DISCIPLINES DRAWINGS AND SPECIFICATIONS.
6. ALL DESIGN LOADS NOTED ON DRAWINGS ARE UNFACTORED UNLESS NOTED OTHERWISE.
7. ALL UNITS TO BE MILLIMETERS (mm) UNLESS NOTED OTHERWISE
8. REFER TO ARCHITECTURAL DRAWINGS FOR THE SIZES AND LOCATIONS OF ALL EXTERIOR AND INTERIOR DOOR AND WINDOW OPENINGS THROUGH ALL WALLS.
9. COORDINATE ALL DIMENSIONS WITH ALL OTHER DISCIPLINE DRAWINGS. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR CONSTRUCTION.
10. COORDINATE ALL CAST IN PLACE PIPING, CONDUITS AND GROUNDING WIRES WITH CIVIL/ELEC./MECH./PROC. DRAWINGS AS WELL AS CIVIL/ELEC./MECH./PROC. CONTRACTORS.
11. DRAWINGS IN GENERAL, ARE TO SCALE, BUT FOLLOW FIGURED DIMENSIONS. THE DRAWINGS ARE NOT TO BE SCALED.

FOUNDATION NOTES:

1. FOUNDATIONS ARE DESIGNED TO BEAR ON FULLY COMPACTED ENGINEERED FILL WITH A MINIMUM FACTORED GEOTECHNICAL BEARING RESISTANCE AT ULTIMATE LIMIT STATES (ULS) OF 150 kPa AND A MINIMUM FACTORED GEOTECHNICAL BEARING RESISTANCE AT SERVICEABILITY LIMIT STATES (SLS) OF 100 kPa, AS PER CBCL LIMITED REPORT DATED AUGUST 16, 2024, PROJECT# 230813.01.
2. ALL ENGINEERED (STRUCTURAL) FILL AND BACKFILLING IS TO BE PLACED UNDER THE CONTINUOUS SUPERVISION OF THE GEOTECHNICAL ENGINEER.
3. THE GEOTECHNICAL ENGINEER TO INSPECT ALL PROPOSED BEARING SURFACES AND CONFIRM THAT THE FACTORED GEOTECHNICAL BEARING RESISTANCE STATED IN THE GEOTECHNICAL REPORT, CAN BE ACHIEVED PRIOR TO PLACEMENT OF ANY CONCRETE IN FOOTINGS, AND THAT BEARING SURFACE IS FREE FROM FROST AND WATER. IF THE GEOTECHNICAL ENGINEER DEEMS BEARING SURFACE CAN NOT PROVIDE THE FACTORED GEOTECHNICAL BEARING RESISTANCE, THE CONTRACTOR IS TO LOWER FOOTINGS AS DIRECTED BY GEOTECHNICAL ENGINEER TO A LEVEL THAT CAN PROVIDE THE FACTORED GEOTECHNICAL BEARING RESISTANCE.
4. BACKFILLING AGAINST WALLS OR GRADE BEAMS TO PROCEED IN APPROXIMATELY EQUAL LIFTS ON BOTH SIDES OF THE WALL OR GRADE BEAM, UNLESS NOTED OTHERWISE.
5. NO PIPING/DUCTBANKS/CONDUIT ARE TO PASS UNDER ANY LOAD BEARING FOUNDATIONS OR WITHIN THEIR ASSOCIATED ZONE OF INFLUENCE. STEP/LOWER FOUNDATIONS TO ALLOW PIPES/DUCTBANKS/CONDUIT TO BE SLEEVED THROUGH THE FOUNDATION WALL OR PASS OVER TOP OR OUT OF THE ZONE OF INFLUENCE OF THE ISOLATED FOOTING. TOP OF FOOTINGS TO BE A MINIMUM 50 BELOW U/S SLEEVES. CONTRACTOR TO COORDINATE WITH CIVIL/ELEC./MECH./PROC. DRAWINGS. THE LAYOUT OF STEPPED/LOWERED FOOTINGS SHOWN ON THE STRUCTURAL DRAWINGS IS SCHEMATIC ONLY, AND MAY NOT SHOW ALL LOCATIONS WHERE STEPPED/LOWERED FOOTINGS ARE REQUIRED. CONTRACTOR IS TO COORDINATE ALL STEPPED/LOWERED FOOTING LOCATIONS AND DEPTHS WITH ALL SUB-TRADES AND SUBMIT ALL PROPOSED FOOTING LOCATIONS AND DEPTHS TO ENGINEER PRIOR TO EXCAVATION FOR FOOTINGS, REINFORCING AND FORMWORK FABRICATION. REFER TO TYPICAL FOOTING DETAILS.

REINFORCED CONCRETE NOTES:

1. ALL CONCRETE, CONCRETE MATERIALS, FORMS, WORKING PROCEDURES AND THE LIKE TO CONFORM TO CSA A23.1:19, UNLESS NOTED OTHERWISE.
2. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS & CLASS OF EXPOSURE TO BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:
   A. BUILDING FOUNDATIONS, FROST WALLS 25 MPa/F-2
   B. INTERIOR SLABS ON GRADE AND HOUSEKEEPING PADS ..... 25 MPa/N-CF
   C. MUD SLABS ..... 20 MPa/N
   D. EXTERIOR PADS 32 MPa/C-2
3. CONCRETE PROTECTIVE COVER TO REINFORCING STEEL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:
   - CAST AGAINST GROUND - NO FORMWORK 75
   - EXPOSED TO EARTH OR WEATHER 60
   - INTERIOR SLAB ON GRADE 50
4. ALL REINFORCING BARS MUST BE ACCURATELY SUPPORTED ON CHAIRS TO MAINTAIN EXACT CONCRETE COVER.
5. CONSTRUCTION JOINTS TO BE LOCATED SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE. LOCATIONS TO BE AS SHOWN ON THE DRAWINGS OR CONTRACTOR IS TO SUBMIT PROPOSED CONSTRUCTION JOINTS FOR THE STRUCTURAL ENGINEER'S APPROVAL. CONSTRUCTION JOINTS TO BE KEYED AND REINFORCEMENT TO NOT BE INTERRUPTED.
6. ALL REINFORCING STEEL TO HAVE A MINIMUM YIELD POINT STRENGTH OF 400 MPa AND TO CONFORM TO CSA G30.18:21.
7. ALL W.W.F. TO CONFORM TO ASTM A1064/1064M-24.
8. UNLESS NOTED OTHERWISE, AT ALL SPLICE LOCATIONS, REINFORCING STEEL TO BE PROVIDED WITH A CLASS 'B' TENSION LAP, OR WHEN BARS OF DIFFERENT SIZES (35M OR SMALLER) ARE LAP SPLICED IN TENSION, THE SPLICE LENGTH TO BE THE LARGER OF THE DEVELOPMENT LENGTH OF THE LARGER BAR OR THE SPLICE LENGTH OF THE SMALLER BAR, AS PER CSA A23.3:19.
9. ALL HOOKS SHOWN TO BE STANDARD 90 OR 180 DEGREE HOOKS UNLESS NOTED OTHERWISE.
10. ALL POST-INSTALLED ANCHORS AND REBAR INTO CONCRETE TO BE INSTALLED WITH HIT-HY 200 V3 INJECTABLE ADHESIVE BY HILTI (OR APPROVED EQUAL), UNLESS NOTED OTHERWISE. INSTALL ALL ADHESIVE ANCHORS AS PER MANUFACTURERS INSTRUCTIONS. CHEMICAL ANCHORS TO BE INSTALLED BY AN EXPERIENCED APPLICATOR, TRAINED BY THE ANCHOR MANUFACTURER. CONTRACTOR TO SUBMIT TRAINING CERTIFICATE(S) TO OWNERS REPRESENTATIVE UPON REQUEST.

BLOWER BUILDING DESIGN LOADS:

1. BUILDING IMPORTANCE CATEGORY: POST-DISASTER
2. ROOF DESIGN LOADS:
   A. DEFLECTION CRITERIA = L/300
   B. SUPERIMPOSED TRUSS DEAD LOAD:
      - 0.30 kPa + SELF WEIGHT OF TRUSS (TOP CHORD)
      - 0.30 kPa + SELF WEIGHT OF TRUSS (BOTTOM CHORD)
   C. MECHANICAL/ELECTRICAL DEAD LOAD ALLOWANCE
      - 0.50kPa (BOTTOM CHORD)
   D. SNOW LOAD = 3.35 kPa
   E. SNOW IMPORTANCE FACTOR:
      - I_S = 1.25 (ULS)
      - I_S = 0.90 (SLS)
3. WIND LOADS:
   A. THE WIND LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH STATIC PROCEDURE AS OUTLINED IN THE 2015 NATIONAL BUILDING CODE.
   B. HOURLY WIND PRESSURES FOR TOWN OF WOLFVILLE:
      - q_{50} = 0.54 kPa
   C. WIND IMPORTANCE FACTOR:
      - I_W= 1.25 (ULS)
      - I_W= 0.75 (SLS)
   D. EXPOSURE FACTORS BASED ON OPEN TERRAIN:
      - C_e = 0.90 ; C_{ec} = 0.90
   E. TOPOGRAPHIC FACTOR:
      - C_t = 1.00
   F. EXTERNAL PRESSURE AND GUST COEFFICIENT(LOW BUILDING) C_gC_p, BASED ON FIGURE 4.1.7.6-A OF THE BUILDING CODE WHICH VARIES BASED ON BUILDING SURFACE LOCATION.
   G. INTERNAL PRESSURE COEFFICIENT BASED ON BUILDING OPENING CATEGORY 3:
      - p_i = -0.85 kPa
      - p_i = +0.85 kPa
4. EARTHQUAKE LOADS:
   A. THE EARTHQUAKE LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH THE EQUIVALENT STATIC FORCE PROCEDURE.
   B. EARTHQUAKE IMPORTANCE FACTOR:
      - I_E= 1.50 (ULS)
   C. SEISMIC HAZARD PARAMETERS FOR TOWN OF WOLFVILLE:
      - S_a (0.2) = 0.117, S_a (0.5) = 0.085, S_a (1.0) = 0.054, S_a (2.0) = 0.030, S_a (5.0) = 0.008, S_a (10.0) = 0.003, PGA = 0.069, PGV = 0.073
   D. SITE CLASSIFICATION FOR SEISMIC SITE RESPONSE:
      - CLASS = E
   E. ACCELERATION AND VELOCITY BASED SITE COEFFICIENTS:
      - F_a = 1.64, F_v = 2.81
   F. TYPE OF SEISMIC FORCE RESISTING SYSTEM (SFRS), MODERATELY DUCTILE SHEAR WALLS:
      - R_d = 2.0, R_o = 1.5
   G. FUNDAMENTAL LATERAL PERIOD USED FOR CALCULATIONS:
      - T_a = 0.13 SEC

TIMBER NOTES:

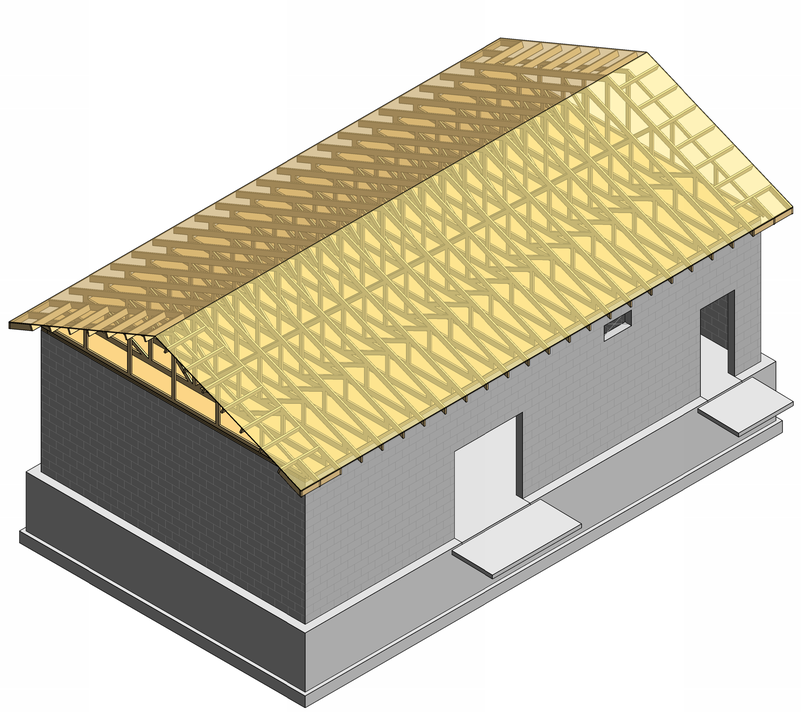
1. ALL MATERIALS AND WORKMANSHIP TO COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
   A. CODE FOR ENGINEERING DESIGN IN WOOD CSA 086:19
   B. NATIONAL BUILDING CODE OF CANADA, PART 4.
2. SHEATHING TO BE AS FOLLOWS:
   A. ROOF ..... 19 THK PLYWOOD.
   B. CEILING ..... 16 THK PLYWOOD.
   C. ALL SHEATHING TO BE TRIPLE SPAN MINIMUM U.N.O.
3. ALL NAILS & SPIKES TO BE IN ACCORDANCE NBCC CLAUSE 9.23.3.
4. ROOF SHEATHING NAILING PATTERN TO BE AS INDICATED IN DETAIL 3/ S02.
5. CEILING SHEATHING NAILING PATTERN TO BE 64 LONG NAILS AT 100 c/c ALONG PANEL EDGES AND 64 LONG NAILS AT 100 c/c ALONG INTERMEDIATE FRAMING.
6. AT TRUSS BEARING POINTS WHERE THE COMPRESSION RESISTANCE PERPENDICULAR TO THE GRAIN IS EXCEEDED, THE TRUSS SUPPLIER TO PROVIDE BEARING PLATES.
7. PRIOR TO DEVELOPMENT OF TRUSS SHOP DRAWINGS, TRUSS DESIGNER TO CONTACT ENGINEER REGARDING GIRDER TRUSSES, TRUSS BEARING POINTS, ETC.
8. THE CONTRACTOR TO PROVIDE SUCH TEMPORARY BRACING AS IS REQUIRED BY THEIR ERECTION PROCEDURES AND THE ARRANGEMENT OF LOAD BEARING UNITS, UNTIL THE ROOF SHEATHING, JOISTS AND JOIST BRACING AND BRIDGING IS INSTALLED.
9. GABLE END TRUSSES TO HAVE VERTICAL WEB MEMBERS AT 600 c/c AND BOTTOM CHORD TO BE FULLY BEARING.
10. TRUSS MANUFACTURER TO DESIGN, SELECT, SUPPLY AND INSTALL ALL TRUSS TIE DOWNS, INCLUDING THE TRUSS TIE DOWNS FOR ANY GIRDER TRUSSES.
11. ALL TOP PLATES THAT BEAR ON MASONRY UNITS TO BE PRESSURE TREATED, U.N.O.
12. WALL TOP PLATE SPLICES TO BE LAPPED A MINIMUM OF 1200 AND HAVE 15 - 89 LONG CLINCHED NAILS EACH SIDE OF SPLICE.
13. ALL TIMBER CONNECTORS BY SIMPSON STRONG-TIE (OR APPROVED EQUAL), UNLESS NOTED OTHERWISE.

MASONRY NOTES:

1. ALL CONCRETE BLOCK WALLS TO BE OF STANDARD CONCRETE MASONRY UNITS, TO CSA A165 SERIES-14, AND CONFORM TO THE FOLLOWING CLASSIFICATION:
   A. LOAD BEARING WALLS: H/15/A/O
   B. PARTITION WALLS: H/15/A/O.
2. ALL MASONRY MORTAR TO BE:
   A. TYPE 'S' FOR ALL LOAD BEARING WALLS.
   B. TYPE 'N' FOR PARTITION WALLS AND VENEER.
   C. ALL MORTAR TO CSA A179-14.
3. ALL REINFORCING IN MASONRY CORE FILLS TO BE LAPPED A MINIMUM CLASS 'B' TENSION LAP UNLESS NOTED OTHERWISE PROVIDE REINFORCEMENT FROM FOUNDATIONS TO MATCH CORE FILL REINFORCEMENT DIAMETER AND SPACING.
4. REINFORCING BARS TO CONFORM TO CSA G30.18:21, GRADE 400.
5. FOR DOWELS INTO FOUNDATIONS, SEE FOUNDATION AND ELEVATION DRAWINGS FOR DETAILS.
6. MINIMUM WALL REINFORCING AS PER MASONRY WALL REINFORCING SCHEDULE.
7. ALL MASONRY LINTELS TO BE SHORED UNTIL ENTIRE MASONRY WALL IS FULLY CURED.
8. PROVIDE 1 - 15M VERTICAL FULL HEIGHT AT EACH END OF WALL AND AT EACH SIDE OF OPENINGS UNLESS NOTED OTHERWISE.
9. PROVIDE 2 COURSE KNOCK OUT BOND BEAM WITH 1 - 15M CONTINUOUS CENTERED IN EACH COURSE AT TOP OF ALL MASONRY WALLS UNLESS NOTED OTHERWISE REINFORCING TO HAVE STD. HOOK AT EACH END OF WALL AND AT ALL OPENINGS.
10. GROUT INSPECTION PORTS AT THE BOTTOM OF WALLS TO BE PROVIDED IN THE FACE SHELL OF THE BLOCK AT ALL VERTICAL REINFORCING LOCATIONS. GROUTING OF WALLS TO NOT TAKE PLACE UNTIL THE ENGINEER HAS REVIEWED PLACEMENT OF REINFORCING STEEL
11. THE CONTRACTOR TO PROVIDE SUCH TEMPORARY BRACING AS IS REQUIRED BY THEIR ERECTION PROCEDURES AND THE ARRANGEMENT OF LOAD BEARING UNITS UNTIL THE FLOOR FRAMING/ ROOF FRAMING AND FLOOR DECK/ROOF DECK HAVE BEEN INSTALLED.
12. SEE ARCHITECTURAL FOR MASONRY PARTITION WALL LOCATIONS. PROVIDE VERTICAL MOVEMENT JOINTS AT MAXIMUM 7600 SPACING (TYP.) AND WITHIN 3800 OF CORNER INTERSECTIONS U.N.O.. CONTRACTOR TO SUBMIT PROPOSED LOCATION OF ALL VERTICAL MOVEMENT JOINTS PRIOR TO CONSTRUCTION.
13. ALL POST-INSTALLED ANCHORS INTO MASONRY TO BE INSTALLED WITH HIT-HY 270 INJECTABLE ADHESIVE BY HILTI (OR APPROVED EQUAL) AND HILTI HIT-SC SCREEN TUBES (HOLLOW), UNLESS NOTED OTHERWISE. INSTALL ALL ADHESIVE ANCHORS AS PER MANUFACTURERS INSTRUCTIONS. CHEMICAL ANCHORS TO BE INSTALLED BY AN EXPERIENCED APPLICATOR, TRAINED BY THE ANCHOR MANUFACTURER. CONTRACTOR TO SUBMIT TRAINING CERTIFICATE(S) TO OWNERS REPRESENTATIVE UPON REQUEST.

ABBREVIATIONS:

ADD'L.	ADDITIONAL
ARCH.	ARCHITECTURAL
BOT.	BOTTOM
c/c	CENTER TO CENTER
CJ	CONSTRUCTION/CONTROL JOINT
CLR	CLEAR
CONC.	CONCRETE
CONT.	CONTINUOUS
COOR.	COORDINATE
CVR	COVER
c/w	COMPLETE WITH
DIA.	DIAMETER
DIM.	DIMENSION
DN.	DOWN
DWG	DRAWING
E.E.	EACH END
E.F.	EACH FACE
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EMB.	EMBEDDED OR EMBEDMENT
EQ.	EQUAL
E.S.	EACH SIDE
E.W.	EACH WAY
FTG	FOOTING
HORIZ.	HORIZONTAL
LG.	LONG
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
MIR.	MIRROR
MMJ	MASONRY MOVEMENT JOINT
N.T.S.	NOT TO SCALE
PROC.	PROCESS
REINF.	REINFORCING
REQ'D.	REQUIRED
SC	SAW CUT
SIM.	SIMILAR
S.O.G.	SLAB ON GRADE
STD	STANDARD
T&B	TOP AND BOTTOM
THK	THICK
T.O.	TOP OF
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
U/S	UNDERSIDE
VERT.	VERTICAL
w/	WITH



3D ISO NOTE:
3-DIMENSIONAL (3D) VIEWS ARE VISUAL REPRESENTATION OF THE PROJECT. 3D VIEWS ARE FOR GENERAL REFERENCE ONLY. 2-DIMENSIONAL (2D) CONTRACT DOCUMENTS AND SPECIFICATIONS SHALL GOVERN.

3D ISO BLOWER BUILDING
N.T.S.

NOT FOR CONSTRUCTION

No	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	JS

Revision or Issue

wolfville

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT
PHASE 2 UPGRADES

STRUCTURAL

GENERAL NOTES

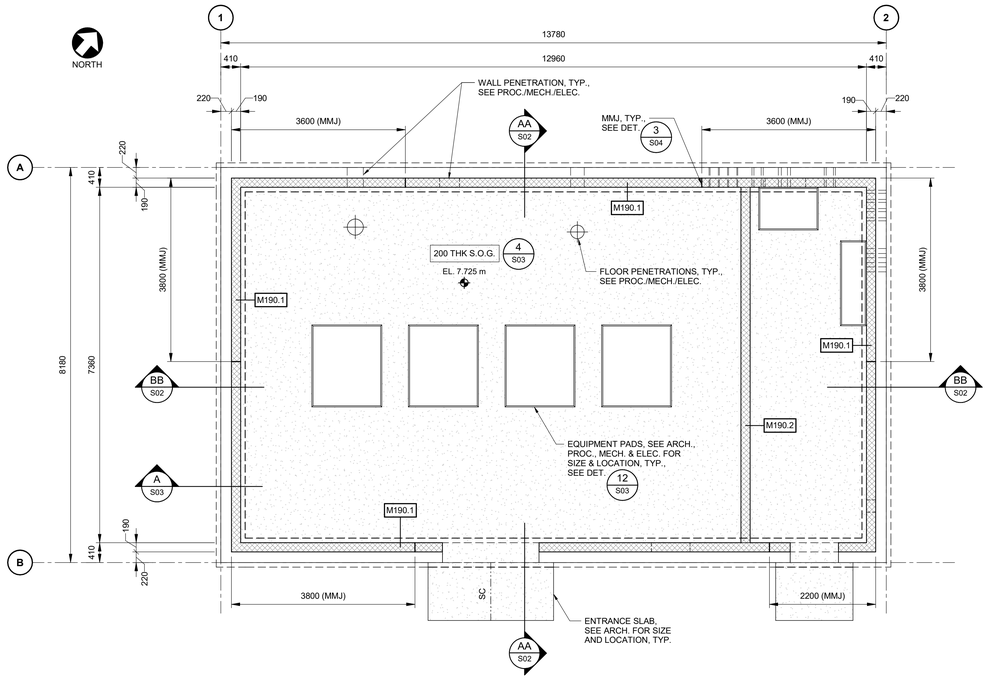
CBCL

REGISTERED PROFESSIONAL ENGINEER
DATE Mar. 11/25
D. A. L. Seamone
20200350
PROVINCE OF NOVA SCOTIA

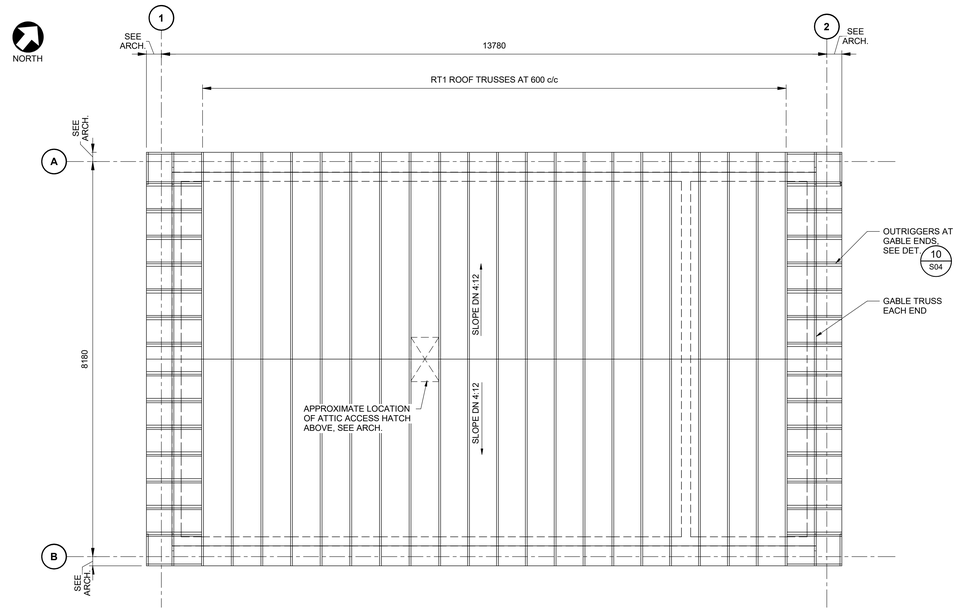
CBCL No. 230813.00	Contract No. WOL005-2025
Date APR 2024	Scale N.T.S.
Designed DALS	Drawn EM
Checked JRF	Approved DAT
Sheet No 1 of 4	
Drawing No **S01**	

C:\Autodesk\Revit\Temp\230813.00_STR_TOW WWTP_V24_emalougma.rvt
2025-03-11 3:50:51 PM

CBCL-30x42 (762x1067) TITLE SHEET (ARCH E1)

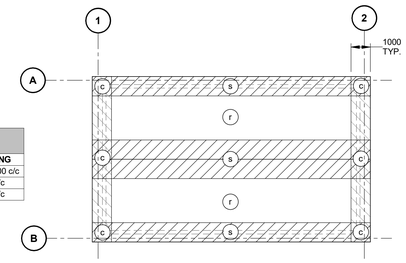


1 - PLAN BLOWER BUILDING - SLAB ON GRADE
1 : 50

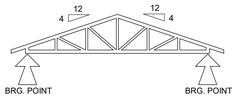


2 - PLAN BLOWER BUILDING - ROOF FRAMING
1 : 50

FASTENING SHEATHING PATTERN		
ZONE	EDGE PANEL	INTERMEDIATE FRAMING
c	76 LG NAILS AT 150 c/c	#8 - 64 LG SCREWS AT 100 c/c
s	76 LG NAILS AT 150 c/c	76 LG NAILS AT 100 c/c
r	76 LG NAILS AT 150 c/c	76 LG NAILS AT 150 c/c

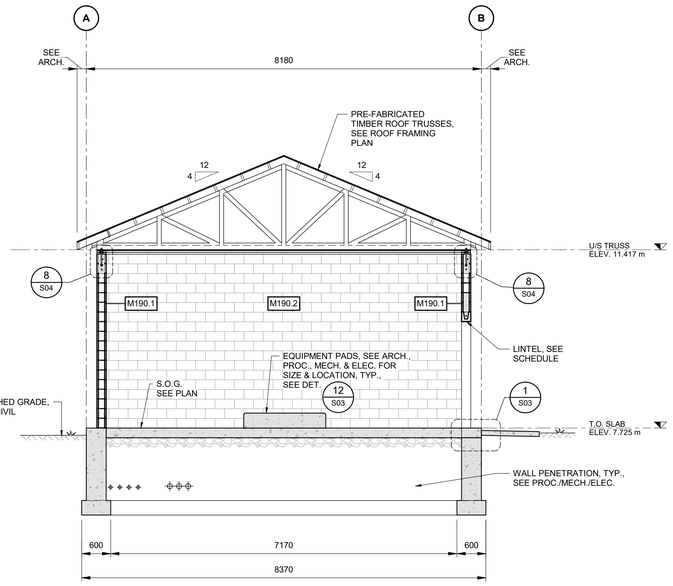


3 - PLAN ROOF SHEATHING FASTENING PATTERN
N.T.S.

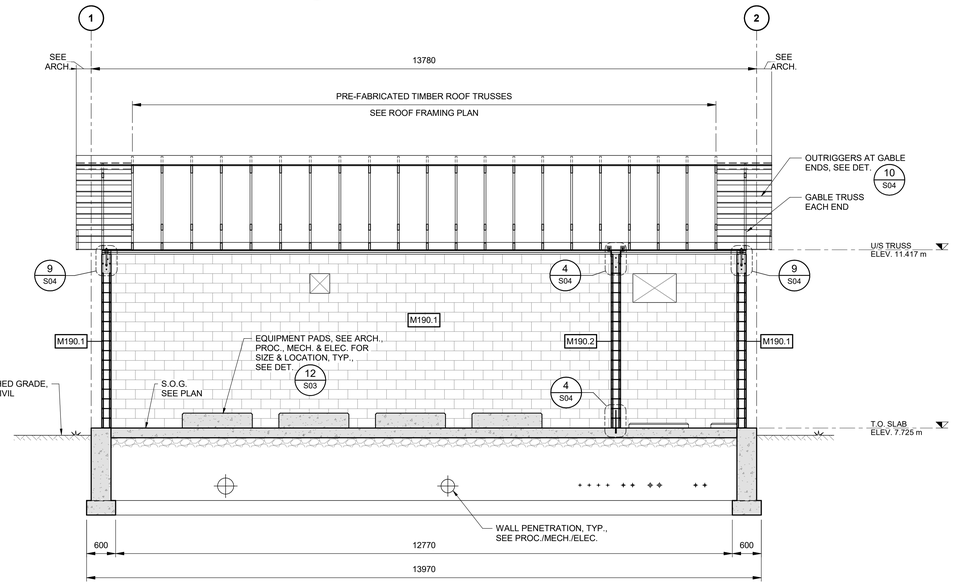


ELEVATION RT1 TRUSS
N.T.S.

ELEVATION GABLE TRUSS
N.T.S.



AA - SECTION BLOWER BUILDING
1 : 50



BB - SECTION BLOWER BUILDING
1 : 50

LEGEND:

M### # — DENOTES CONCRETE MASONRY BLOCK WALL
WALL THICKNESS

NOTES:

1. SAW CUTS CONTROL JOINTS TO BE 6 x 38 DP.
2. SEE ARCH. FOR PARTITION WALL LOCATIONS.

NOT FOR CONSTRUCTION

No	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	JS

Revision or Issue

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

STRUCTURAL

BLOWER BUILDING - PLANS AND CROSS SECTIONS

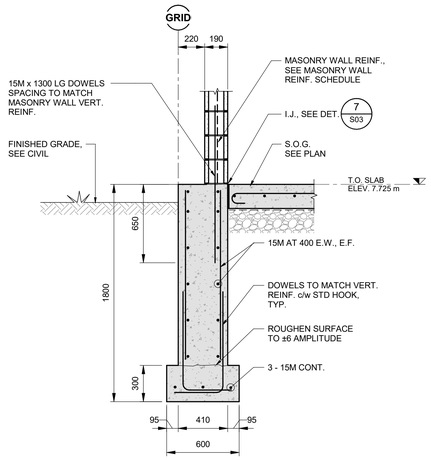
CBCL

REGISTERED PROFESSIONAL ENGINEER — DATE Mar. 11/25 — D. A. L. Seamone — 20200350 — PROVINCE OF NOVA SCOTIA

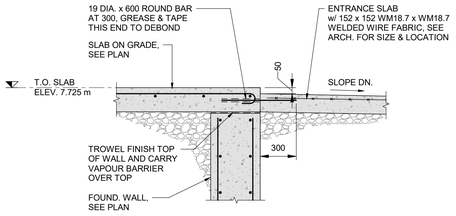
CBCL No. 230813.00	Contract No WO.005-2025
Date APR 2024	Scale As indicated
Designed DALS	Drawn EM
Checked JRF	Approved DAT
Sheet No 2 of 4	
Drawing No S02	

C:\Autodesk\Revit\Temp\230813.00_STR_TOW WWTP_V24_emalougma.rvt
2025-03-11 3:50:52 PM

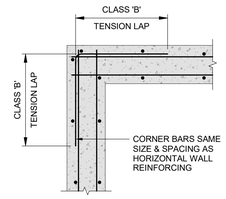
CBCL-30x42 (762x1067) TITLE SHEET (ARCH E1)



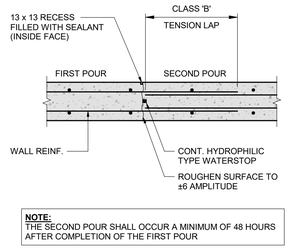
A S02 **SECTION** TYPICAL FOUNDATION WALL
1 : 20



1 S02 **DETAIL** TYPICAL FOUNDATION WALL AT MAN DOOR
1 : 20

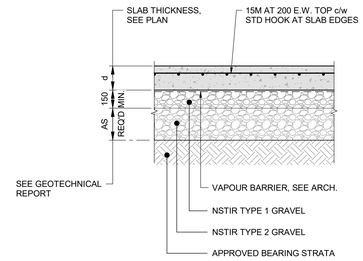


2 **DETAIL** TYPICAL FOUNDATION WALL CORNERS
N.T.S.

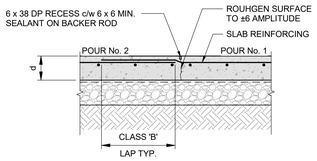


NOTE:
THE SECOND POUR SHALL OCCUR A MINIMUM OF 48 HOURS AFTER COMPLETION OF THE FIRST POUR

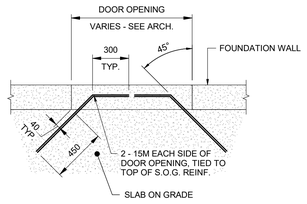
3 **DETAIL** TYPICAL WALL CONSTRUCTION JOINT
N.T.S.



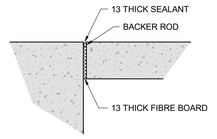
4 **DETAIL** TYPICAL SLAB ON GRADE
N.T.S.



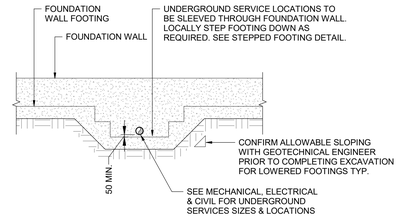
5 **DETAIL** TYPICAL SLAB ON GRADE CONSTRUCTION JOINT
N.T.S.



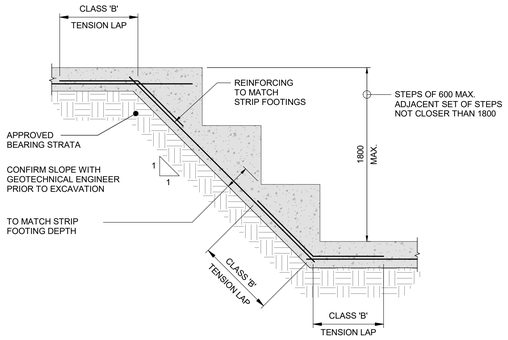
6 **DETAIL** TYPICAL SLAB ON GRADE ADDITIONAL REINFORCING AT DOOR OPENINGS
N.T.S.



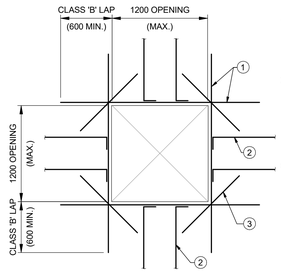
7 **DETAIL** TYPICAL ISOLATION JOINT
N.T.S.



8 **DETAIL** TYPICAL PENETRATIONS AT FOUNDATION WALLS
N.T.S.



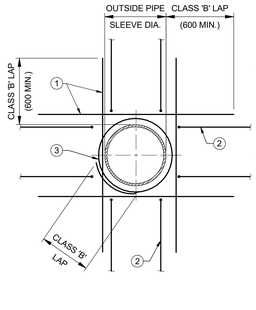
9 **DETAIL** TYPICAL STEPPED FOOTING
N.T.S.



1. PROVIDE BARS OF EQUIVALENT AREA FOR REINFORCEMENT INTERRUPTED BY OPENING, ADD HALF EACH SIDE OF OPENING. MINIMUM OF 1-15M MUST BE PROVIDED EACH SIDE OF OPENING.
2. PROVIDE STANDARD 90° HOOK ON VERTICAL AND HORIZONTAL BARS INTERRUPTED BY OPENING. ALTERNATIVELY, PROVIDE STRAIGHT BARS AND U-BARS WITH A MINIMUM CLASS 'B' TENSION LAP SPLICE OR A STD. HOOKED BAR WITH A MINIMUM CLASS 'B' TENSION LAP.
3. PROVIDE 1-15M DIAGONAL BAR 1200 LG AT EACH CORNER, BARS TO BE IN THIRD LAYER.

NOTES:
- FOR OPENINGS LESS THAN SPACING OF REINFORCEMENT, NO ADDITIONAL REINFORCING BARS ARE REQUIRED PROVIDED NO BARS ARE CUT.
- AT FOOTING, SLAB OR WALL LOCATIONS WHERE THE REQUIRED LENGTH OF ADDITIONAL BARS CANNOT BE ACHIEVED, PROVIDE STD HOOK.

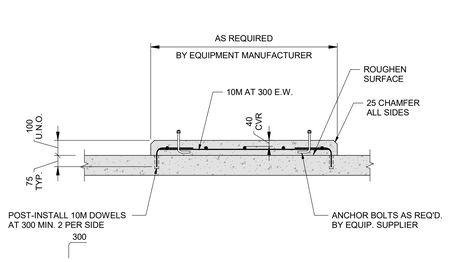
10 **DETAIL** TYPICAL RECTANGULAR CONCRETE WALL OPENING
N.T.S.



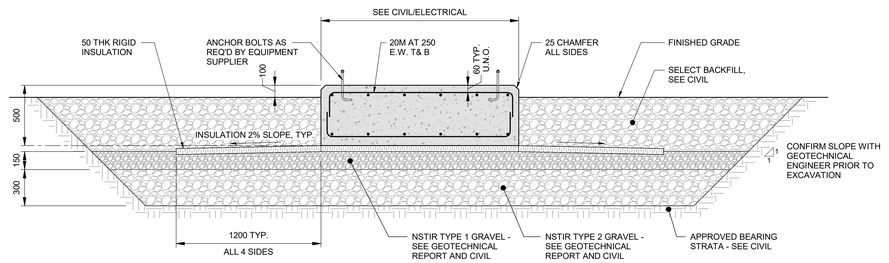
1. PROVIDE BARS OF EQUIVALENT AREA FOR REINF. INTERRUPTED BY OPENING, ADD HALF EACH SIDE OF OPENING. MINIMUM OF 1 - 15M MUST BE PROVIDED EACH SIDE OF OPENING.
2. PROVIDE STANDARD 90° HOOK ON VERTICAL AND HORIZONTAL BARS INTERRUPTED BY OPENING. ALTERNATIVELY, PROVIDE STRAIGHT BARS AND U-BARS WITH A MINIMUM CLASS 'B' TENSION LAP SPLICE OR A STD HOOKED BAR WITH A MINIMUM CLASS 'B' TENSION LAP.
3. PROVIDE 1 - 15M TIE TO BE IN CENTER OF WALL FOR WALLS WITH CENTER REINF. & THIRD LAYER EACH FACE FOR WALLS WITH REINF. ON EACH FACE.

NOTES:
- FOR OPENINGS LESS THAN SPACING OF REINF., NO ADDITIONAL REINFORCING BARS ARE REQUIRED.
- AT FOOTING, SLAB OR WALL LOCATIONS WHERE THE REQUIRED LENGTH OF ADDITIONAL BARS CANNOT BE ACHIEVED, PROVIDE STD. HOOK.

11 **DETAIL** TYPICAL ROUND CONCRETE WALL OPENING
N.T.S.



12 **DETAIL** TYPICAL HOUSE KEEPING PADS
N.T.S.



13 **DETAIL** GENERATOR PAD
N.T.S.

NOT FOR CONSTRUCTION

No	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	JF

Revision or Issue

wolfville

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

STRUCTURAL

SECTIONS AND TYPICAL DETAILS - CONCRETE

CBCL

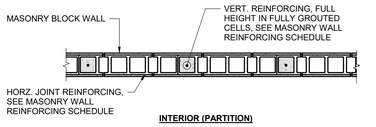
REGISTERED PROFESSIONAL ENGINEER — DATE Mar. 11/25 — D. A. L. Seamone — 20200350 — PROVINCE OF NOVA SCOTIA

CBCL No 230813.00	Contract No WOL005-2025
Date APR 2024	Scale As indicated
Designed DALS	Drawn EM
Checked JRF	Approved DAT
Sheet No 3 of 4	
Drawing No **S03**	

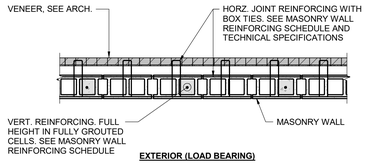
MASONRY WALL REINFORCING U.N.O.		
WALL TYPE	**VERTICAL REINFORCING**	**HORIZONTAL REINFORCING**
M190.1	15M AT 800 FULL HEIGHT IN FULLY GROUTED CELLS	EXTRA HEAVY DUTY LADDER TYPE JOINT REINF. EVERY 2ND COURSE
M190.2	15M AT 1200 FULL HEIGHT IN FULLY GROUTED CELLS	EXTRA HEAVY DUTY LADDER TYPE JOINT REINF. EVERY 2ND COURSE

MASONRY LINTEL SCHEDULE		
WALL TYPE	**OPENING WIDTH**	**LINTEL REINFORCING**
M190.1	UP TO 1000	TYPE A - 2 COURSE WITH 1 - 10M BOT.
M190.1	1001 TO 2000	TYPE B - 3 COURSE WITH 1 - 15M BOT.
M190.2	UP TO 1000	TYPE A - 2 COURSE WITH 1 - 10M BOT.

MASONRY REINFORCING AROUND OPENINGS		
WALL TYPE	**OPENING WIDTH**	**REINFORCING**
M190.1	UP TO 1000	2 - 15M E.S. OF OPENING IN SEPARATE CELLS
M190.1	1001 TO 2000	3 - 15M E.S. OF OPENING IN SEPARATE CELLS
M190.2	UP TO 1000	2 - 15M E.S. OF OPENING IN SEPARATE CELLS

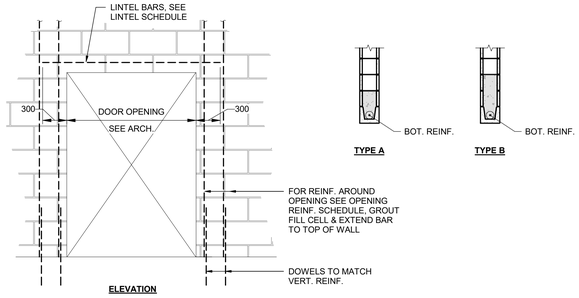


INTERIOR (PARTITION)



EXTERIOR (LOAD BEARING)

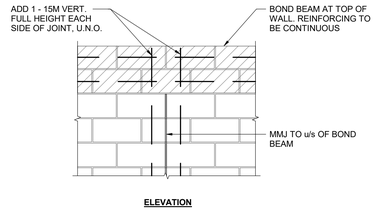
1 DETAIL MASONRY WALL REINFORCING
N.T.S.



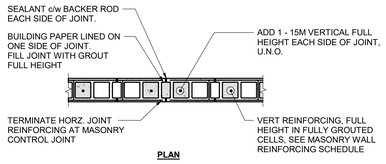
ELEVATION

TYPE A **TYPE B**

2 DETAIL DOOR OPENING IN MASONRY WALL
N.T.S.

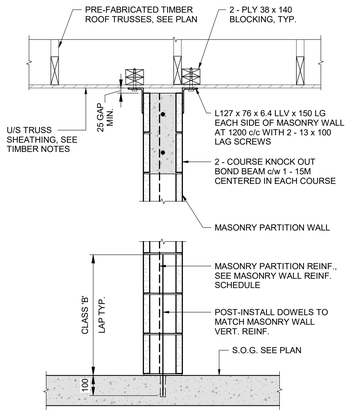


ELEVATION



PLAN

3 DETAIL TYPICAL MASONRY MOVEMENT JOINT
N.T.S.



4 DETAIL TYPICAL MASONRY PARTITION WALL SUPPORT UNDER TRUSS
N.T.S.

TYPICAL CORNER

NOTES:
1. AT CORNERS, INTERLOCK ALTERNATIVE COURSES OF MASONRY U.N.O.
2. AT CORNER AND TEE INTERSECTIONS OF LOAD BEARING MASONRY WALLS WITH PARTITION MASONRY WALLS, SEE DET. 6/ S04 .
3. AT BOND BEAM CORNER INTERSECTIONS, LAP BOND BEAM REINFORCING WITH 15M x 700 x 700 L-BARS.

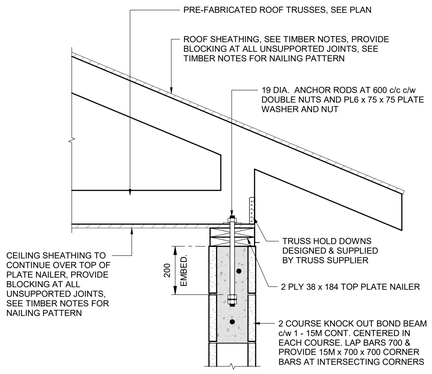
5 DETAIL TYPICAL MASONRY WALL CORNERS
N.T.S.

6 DETAIL INTERSECTION OF MASONRY LOAD BEARING AND PARTITION WALLS
N.T.S.

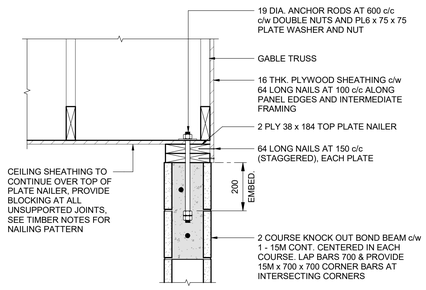
ELEVATION

SECTION

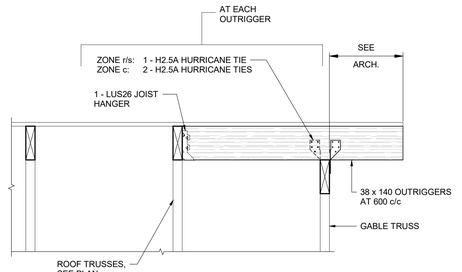
7 DETAIL TYPICAL LOOSE LINTEL LESS THAN 2000
N.T.S.



8 DETAIL TYPICAL LOAD BEARING EXTERIOR MASONRY WALL PERPENDICULAR TO TIMBER TRUSS
N.T.S.



9 DETAIL TYPICAL LOAD BEARING EXTERIOR MASONRY WALL PARALLEL TO TIMBER TRUSS
N.T.S.



NOTES:
1. FOR ZONES SEE DET. 3/ S02 .
2. INSTALL H2.5A HURRICANE TIE WITH 5 - #9 x 38 LG SD SCREWS BY SIMPSON STRONG TIE (OR APPROVED EQUAL) IN OUTRIGGERS AND GABLE TRUSS.

10 DETAIL TYPICAL GABLE TRUSS OUTRIGGERS
N.T.S.

NOT FOR CONSTRUCTION

No	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	JS

Revision or Issue

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

STRUCTURAL

TYPICAL DETAILS - MASONRY AND TIMBER

CBCL

REGISTERED PROFESSIONAL ENGINEER — PROVINCE OF NOVA SCOTIA — DATE Mar. 11/25 — D. A. L. Seamone — 20200350

CBCL No. 230813.00	Contract No WOL005-2025
Date APR 2024	Scale As indicated
Designed DALS	Drawn EM
Checked JRF	Approved DAT
Sheet No 4 of 4	
Drawing No **S04**	

PIPING SYMBOLS

- GATE VALVE (NORMALLY OPEN)
- GATE VALVE (NORMALLY CLOSED)
- PLUG VALVE (NORMALLY OPEN)
- PLUG VALVE (NORMALLY CLOSED)
- LUBRICATED PLUG VALVE
- GLOBE VALVE (NORMALLY OPEN)
- GLOBE VALVE (NORMALLY CLOSED)
- BALL VALVE (NORMALLY OPEN)
- BALL VALVE (NORMALLY CLOSED)
- NEEDLE VALVE (NORMALLY OPEN)
- NEEDLE VALVE (NORMALLY CLOSED)
- KNIFE GATE VALVE (NORMALLY OPEN)
- KNIFE GATE VALVE (NORMALLY CLOSED)
- BUTTERFLY VALVE
- CHECK VALVE
- BALL CHECK VALVE
- STOP–CHECK VALVE
- THREE WAY VALVE
- FOUR WAY VALVE
- Y– STRAINER
- FLOW ORIFICE
- DIAPHRAGM SEAL
- INSERT PRESSURE SENSOR
- REDUCER (CONCENTRIC)
- REDUCER (ECCENTRIC)
- HOSE CONNECTION
- FLANGE CONNECTION
- PIPE SEALED END
- BLANK FLANGED END
- FLOOR DRAIN
- DRAIN TO SUMP
- VENT
- DUPLEX BASKET STRAINER
- SINGLE BASKET STRAINER
- CONDENSATE TRAP
- FILTER
- SIGHT GLASS (FLOW GAUGE)
- PUMP
- PERISTALTIC PUMP
- RUPTURE DISK
- FLAME TRAP
- PULSATION DAMPER
- PRESSURE TANK
- WATER HAMMER ARRESTOR

- HAND (SLIDE) GATE
- SLUICE GATE
- AGITATOR
- STATIC MIXER
- GRINDER
- POSITIVE DISPLACEMENT BLOWER
- PURGE POINT
- PROGRESSIVE CAVITY PUMP
- SUBMERSIBLE PUMP
- HEAT EXCHANGER
- SILENCER
- TURBINE FLOWMETER
- VORTEX FLOWMETER
- V–CON FLOWMETER
- TRANSIT TIME METER
- MAGNETIC FLOWMETER
- THERMAL MASS FLOW METER
- POSITIVE DISPLACEMENT METER
- CORIOLIS MASS FLOW METER
- VISUAL FLOW MEASUREMENT (ROTAMETER)
- AUTO DRAIN
- AIR VENT
- VACUUM BREAKER
- MANUALLY ADJUSTABLE SPEED/STROKE
- MOTOR
  MOTOR POWER (HP)
- EXISTING (EQUIPMENT/DEVICES)
- UNION
- FIELD WELD
- FLEXIBLE COUPLING
- CORPORATE COCK
- GROVE END COUPLING
- PINCH VALVE
- CONTROL VALVE (SHOWN IN PLAN)
- DENOTES WALL FLANGE ON A PIPE

VALVE ACTUATORS

- DIAPHRAM ACTUATOR c/w POSITIONER
- CYLINDER ACTUATOR (SINGLE ACTING, SPRING TO CLOSE) C/W ACTIVATING SOLENOID VALVE
- SOLENOID
- MOTOR OPERATED VALVE
- MANUAL HANDWHEEL (1/4 TURN)
- MANUAL HANDWHEEL (MULTI–TURN)
- PNEUMATIC ACTUATOR
- PEDESTAL MOUNTED OPERATOR
- PEDESTAL MOUNTED OPERATOR (SHOWN IN PLAN)
- MANUAL OPERATING NUT

SELF ACTUATED DEVICES

- PRESSURE RELIEF (SAFETY VALVE)
- BACK PRESSURE REGULATOR (SELF CONTAINED)
- THERMALLY ACTIVATED VALVE
- SELF REGULATING PRESSURE CONTROL VALVE (SELF CONTAINED)
- SELF REGULATING FLOW CONTROL VALVE (SELF REGULATING)

PROCESS LINE LEGEND

- MAIN PROCESS FLOW (BY PIPE)
- SECONDARY PROCESS FLOW (BY PIPE)
- FUTURE SYSTEM
- DENOTES CHANGE IN LINE SIZE
- FLEXIBLE HOSE
- EQUIPMENT PACKAGE
- LINE CONTINUATION
- PIPING TIE–IN POINT
- INSULATED LINE
- INSULATED LINE WITH ELECTRICAL HEAT TRACING
- EXISTING
- BYPASS FLOW
- LEASED LINE

PIPELINE IDENTIFICATION

PIPE MATERIAL (REFER THIS DRAWING)
100 LPA DI
PIPE DIA. — FLUID CODE

SERVICE	FLUID CODE
ALUM	ALM
BACKWASH	BWE
BACKWASH SUPPLY	BWS
BACKWASH TO WASTE	BTW
BIOFILTER WASTEWATER	BFW
BIOSOLIDS WASTEWATER	BWW
BLENDED SLUDGE	BLS
BYPASS	BYP
CARBON DIOXIDE GAS	CDG
CAUSTIC	CAU
CHLORINE	CHL
CHLORINE GAS	CHL
CITRIC ACID	CIT
CLARIFIED WATER	CLW
CLEAN IN PLACE SOLUTION	CIP
COAGULANT	COA
COMPRESSED AIR	AIR
CORROSION INHIBITOR	CIS
DECANT	DEC
DEWATERING FEED (SLUDGE)	DES
DIGESTER FEED (SLUDGE)	DIS
DIGESTER GAS	GAS
DOMESTIC COLD WATER	DCW
DOMESTIC HOT WATER	DHW
DRAIN	DRN
FILTER EFFLUENT	FEF
FILTERED WATER	FIL
FILTRATE	FIL
FLOAT TO WASTE	FTW
FLOCCULATED SLUDGE RECIRC.	FSR
FLUORIDE	FLO
FLUOSILICIC ACID	FSA
GLYCOL WATER RETURN	GWR
GLYCOL WATER SUPPLY	GWS
GRIT (SLURRY)	GRT
HOT WATER RETURN	HWR
HOT WATER SUPPLY	HWS
HYDROCHLORIC ACID	HYD
HYPOCHLORIC ACID	HYO
LIME SLURRY	LIM
LOW PRESSURE AIR	LPA
MEMBRANE FEED WATER	MFW
MIXED LIQUOR	MXL
No. 2 FUEL OIL	OIL
ODOUR COLLECTION	ODR
OVERFLOW	OVF
PLANT WASTEWATER	PWW
POLYALUMINUM CHLORIDE	PAC
POLYALUMINUM HYDROXYCHLORIDE	PAH
POLYMER SOLUTION	POL
POTASSIUM PERMANGANATE	POP
POTABLE WATER	POT
PRIMARY CLARIFIER EFFLUENT	PCE
PRIMARY SLUDGE	PSL
QUICK LIME	QLM
RAW WASTEWATER (SEWAGE)	RWS
RAW WATER SUPPLY	RAW
RECYCLE (SEPTAGE)	RCS
RECYCLE (WATER)	RCW
RETURN ACTIVATED SLUDGE	RAS
SAMPLE	SAM
SANITARY SEWER	SAN
SCUM	SCM
SECONDARY CLARIFIER EFFLUENT	SCE
SECONDARY CLARIFIER INFLUENT	SCI
SEPTAGE SLUDGE	SES
SERVICE WATER (NON–POTABLE)	WTR
SODA ASH	SOD
SODIUM HYPOCHLORITE	HYP
THICKENED WASTE ACTIVATED SLUDGE	TWAS
TREATED EFFLUENT	EFF
TREATED WATER	TW
VENT	VNT
VOLATILE FATTY ACID	VFA
WASTE ACTIVATED SLUDGE	WAS

TABLE 1 – INSTRUMENTATION IDENTIFICATION

FIRST LETTERS	INITIATING OR MEASURED VARIABLE	CONTROLLERS				READOUT DEVICES		SWITCHES AND ALARM DEVICES			TRANSMITTERS								
		RECORDING	INDICATING	BLIND	SELF–ACTUATED CONTROL VALVES	RECORDING	INDICATING	HIGH	LOW	COMBINED	RECORDING	INDICATING	BLIND	SOLENOID/ RELAYS/ COMPUTING DEVICES	PRIMARY ELEMENT	TEST POINT	WELL OR PROBE	VIEWING DEVICE/ GLASS	SAFETY DEVICE	FINAL ELEMENT
A	ANALYSIS	ARC	AIC	AC		AR	AI	ASH	ASL	ASHL	ART	AIT	AT	AY	AE	AP	AW			AV
B	BURNER/COMBUSTION	BRC	BIC	BC		BR	BI	BSH	BSL	BSHL	BRT	BIT	BT	BY	BE		BW	BG		BZ
C	USERS CHOICE																			
D	USERS CHOICE																			
E	VOLTAGE	ERC	EIC	EC		ER	EI	ESH	ESL	ESHL	ERT	EIT	ET	EY	EE					EZ
F	FLOW RATE	FRC	FIC	FC	FCV/FICV	FR	FI	FSH	FSL	FSHL	FRT	FIT	FT	FY	FE	FP		FG		FV
FQ	FLOW QUANTITY	FQRC	FQIC			FQR	FQI	FQSH	FQSL			FQIT	FQT	FQY	FQE					FBV
FF	FLOW RATIO	FFRC	FFIC	FFC		FFR	FFI	FFSH	FFSL						FE					FFV
G	USERS CHOICE																			
H	HAND		HIC	HC						HS										HV
I	CURRENT	IRC	IIC			IR	II	ISH	ISL	ISHL	IRT	IIT	IT	IY	IE					IZ
J	POWER	JRC	JRC			JR	JI	JSH	JSL	JSHL	JRT	JIT	JT	JY	JE					JV
K	TIME	KRC	KIC	KC	KCV	KR	KI	KSH	KSL	KSHL	KRT	KIT	KT	KY	KE					KV
L	LEVEL	LRC	LIC	LC	LCV	LR	LI	LSH	LSL	LSHL	LRT	LIT	LT	LY	LE		LW	LG		LV
M	USERS CHOICE																			
N	USERS CHOICE																			
O	USERS CHOICE																			
P	PRESSURE VACUUM	PRC	PIC	PC	PCV	PR	PI	PSH	PSL	PSHL	PRT	PIT	PT	PY	PE	PP		PG	PSV/PSE	PV
PD	PRESSURE DIFFERENTIAL	PDRC	PDIC	PDC	PDCV	PDR	PDI	PDSH	PDSL		PDRT	PDIT	PDT	PDY	PE	PP				PDV
Q	QUANTITY	QRC	QIC			QR	QI	QSH	QSL	QSHL	QRT	QIT	QT	QY	QE					QZ
R	RADIATION	RRC	RIC	RC		RR	RI	RSH	RSL	RSHL	RRT	RIT	RT	RY	RE		RW			RZ
S	SPEED/FREQUENCY	SRC	SIC	SC	SCV	SR	SI	SSH	SSL	SSHL	SRT	SIT	ST	SY	SE					SV
T	TEMPERATURE	TRC	TIC	TC	TCV	TR	TI	TSH	TSL	TSHL	TRT	TIT	TT	TY	TE	TP	TW		TSE	TV
TD	TEMPERATURE DIFFERENTIAL	TDRC	TDIC	TDC	TDCV	TDR	TDI	TDSH	TDSL		TDRT	TDIT	TDT	TDY	TE	TP	TW			TDV
U	MULTIVARIABLE					UR	UI							UY						UV
V	VIBRATION/MACHINERY ANALYSIS					VR	VI	VSH	VSL	VSHL	VRT	VIT	VT	VY	VE					VZ
W	WEIGHT/FORCE	WRC	WIC	WC	WCV	WR	WI	WSH	WSL	WSHL	WRT	WIT	WT	WY	WE					WZ
WD	WEIGHT/FORCE DIFFERENTIAL	WDRC	WDIC	WDC	WDCV	WDR	WDI	WDSH	WDSL		WDRT	WDIT	WDT	WDY	WE					WDZ
X	UNCLASSIFIED																			
Y	EVENT/STATE/PRESENCE		YIC	YC		YR	YI	YSH	YSL				YT	YY	YE					YZ
Z	POSITION/DIMENSION	ZRC	ZIC	ZC	ZCV	ZR	ZI	ZSH	ZSL	ZSHL	ZRT	ZIT	ZT	ZY	ZE					ZV
ZD	GAUGING/DEVIATION	ZDRC	ZDIC	ZDC	ZDCV	ZDR	ZDI	ZDSH	ZDSL		ZDRT	ZDIT	ZDT	ZDY	ZDE					ZDV

MISCELLANEOUS INSTRUMENTATION ABBREVIATIONS

- AC – AIR TO CLOSE
- AL – ALARM LIGHT
- AO – AIR TO OPEN
- AS – AIR SUPPLY
- AI – ANALOG INPUT SIGNAL(PLC)
- AO – ANALOG OUTPUT SIGNAL(PLC)
- BDG – BADGE CARD READER
- C/O/A/O – CLOSE/OFF/AUTO/OPEN SELECTOR
- CRT – COMPUTER TERMINAL
- CV – CONTROL VALVE
- D – DRAIN
- D/B/U – DOWN/BYPASS/UP SELECTOR
- D/O/U – DOWN/OFF/UP SELECTOR
- DCN – DISCONNECT
- DCS – DISTRIBUTED CONTROL SYSTEM
- DI – DIGITAL INPUT SIGNAL(PLC)
- DO – DIGITAL OUTPUT SIGNAL(PLC)
- EMCS – ENERGY MANAGEMENT CONTROL SYSTEM
- ES – EMERGENCY STOP
- FC – FAILS CLOSED
- FLP – FAILS IN LAST POSITION
- FO – FAILS OPEN
- F/R – FORWARD/REVERSE
- FVNR – FULL VOLTAGE NON–REVERSING STARTER
- FVR – FULL VOLTAGE REVERSING STARTER
- FZ – DAMPER ACTUATOR (FLOW CONTROL)
- F/O/R – FWD/OFF/REV SELECTOR
- H/O/A – HAND/OFF/AUTO SELECTOR SWITCH
- HRN – HORN
- I/O – ANALOG AND DIGITAL CONTROL SYSTEM INPUTS AND OUTPUTS
- JB – JUNCTION BOX / CONTROL PANEL
- LEL – LOWER EXPLOSIVE LIMIT
- L/O/R – LOCAL/OFF/REMOTE
- L/O/R/C – LOCAL/OFF/REMOTE/EXTRACTION
- L/O/R/E – LOCAL/OFF/REMOTE/CLEAN
- L/R – LOCAL/REMOTE
- L/R/M – LOCAL/REMOTE/MANUAL TEST SELECTOR
- M – ELECTRIC MOTOR
- MCC – MOTOR CONTROL CENTER
- MFC – MULTIFUNCTIONAL FLOW CONTROLLER
- MOD – MODULATING SERVICE
- MOV – MOTOR OPERATED VALVE
- MR – MEASURE RANGE
- MV – MANUAL VALVE
- NC – NORMALLY CLOSED
- NO – NORMALLY OPEN
- O/C – OPEN/CLOSE
- O/C/S – OPEN/CLOSE/STOP
- O/L – OVERLOAD
- OS – OUTPUT SIGNAL POTENTIOMETER
- O/O/A – ON/OFF/AUTO SELECTOR
- O/R/M – OFF/REMOTE/MANUAL TEST SELECTOR
- PNTR – PRINTER
- PLC – PROGRAMMABLE LOGIC CONTROLLER
- POT – POTENTIOMETER
- PRV – PRESSURE REDUCING VALVE
- PS – POWER SUPPLY
- RLY – RELAY LOGIC
- RO – RESTRICTION ORIFICE
- RTD – RESISTIVE TEMPERATURE DEVICE (100 Ohm PLATINUM)
- RTU – REMOTE TERMINAL UNIT
- SR – SPRING RETURN
- S/S – START/STOP
- SSNR – SOFT START NON–REVERSING STARTER
- SSR – SOFT START REVERSING STARTER
- SV – SOLENOID VALVE
- TSS – TOTAL SUSPENDED SOLIDS
- VCC – VENDER CONTROL CABINET
- VFD – VARIABLE FREQUENCY DRIVE STARTER
- VRV – VACUUM REDUCING VALVE
- WS – WATER SUPPLY
- ZSC – POSITION LIMIT SWITCH CLOSED
- ZSO – POSITION LIMIT SWITCH OPEN

TABLE 2 – INSTRUMENTATION LOOP NUMBER ASSIGNMENTS

SYSTEM	LOOP NUMBER RANGE
UNCLASSIFIED	00–04
INFLUENT SYSTEM/HEADWORKS	05–19
PRIMARY CLARIFICATION/EQUALIZATION	20–29
ANAEROBIC SYSTEM	30–39
BIOGAS HANDLING/UTILIZATION SYSTEM	40–49
ANOXIC/PRE–AERATION SYSTEM	50–54
MBR SYSTEM	55–59
AERATION/COMPRESSED AIR SYSTEM	60–64
RAS SYSTEM	65–69
SLUDGE MANAGEMENT SYSTEM	70–79
EFFLUENT TREATMENT/PUMPING SYSTEM	80–89
CHEMICAL METERING SYSTEM	90–99

TABLE 3 – CONTROL SIGNAL SOURCE/DESTINATION IDENTIFIER

IDENTIFIER	DESCRIPTION
PLC–EX	SURFLINE PLC
PLC–01	BLOWER BUILDING PLC
RIO–01	CONTROL AND BLOWER BUILDING PLC
DP–1	SCREENING BUILDING DISTRIBUTION PANEL
DP–2	BLOWER BUILDING DISTRIBUTION PANEL
PP–1	UV BUILDING PRODUCTION PANEL
BMS–01	BUILDING MANAGEMENT SYSTEM
VCC–01	AUTO SCREEN No.1 VENDOR CONTROL CABINET
VCC–02	AUTO SCREEN No.2 VENDOR CONTROL CABINET
VCC–03	UV DISINFECTION VENDOR CONTROL CABINET
VCC–04	GRINDER PS VENDOR CONTROL CABINET
VCC–05	EXISTING GENERATOR VENDOR CONTROL CABINET
VCC–06	PROPOSED GENERATOR VENDOR CONTROL CABINET

NOTES:

1. DRAWINGS IN GENERAL ARE TO SCALE BUT FIGURED DIMENSIONS TAKE PRECEDENCE. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR THE ACCURACY OF INFORMATION SCALED FROM THE DRAWINGS.
2. ALL DIMENSIONS USE METRIC UNITS. DIMENSIONS SHOWN IN MILLIMETERS AND POINT ELEVATIONS AS METERS (UNLESS NOTED OTHERWISE).
3. SEE PROCESS DRAWING P05 FOR PROCESS NOTES.

DRAFTING LEGEND:

- DETAIL — REF. DRAWING. No.
- SECTION — REF. DRAWING No.
- ELEVATION — REF. DRAWING No.
- CENTERLINE
- MATCH LINE
- POINT ELEVATION
- EXIST. POINT ELEVATION

STANDARD ABBREVIATIONS:

ADMIN. – ADMINISTRATION
A.F.F. – ABOVE FINISHED FLOOR
APPROX. – APPROXIMATE
BLDG – BUILDING
B.O. – BOTTOM OF
B.O.C. – BOTTOM OF CONCRETE
B.O.P. – BOTTOM OF PIPE
B.O.S. – BOTTOM OF STEEL
CONC. – CONCRETE
CORP. – CORPORATION
C/W – COMPLETE WITH
D.I. – DUCTILE IRON
DIA. – DIAMETER
EXIST. – EXISTING
EL. – ELEVATION
FIN. – FINISHED
F.O.B. – FLAT ON BOTTOM
F.O.T. – FLAT ON TOP
GALV. – GALVANIZED
HDPE – HIGH DENSITY POLYETHYLENE
INV. – INVERT
LPA – LOW PRESSURE AIR
MAX. – MAXIMUM
MH – MANHOLE
MIN. – MINIMUM
NC – NORMALLY CLOSED
N.I.C. – NOT IN CONTRACT
NO – NORMALLY OPEN
No. – NUMBER
NPT – NOMINAL PIPE THREAD
NPS – NOMINAL PIPE SIZE
N.T.S. – NOT TO SCALE
N.W.L. – NORMAL WATER LEVEL
O.D. – OUTSIDE DIAMETER
PG – PRESSURE GAUGE
PVC – POLYVINYL CHLORIDE
REF. – REFERENCE
SCH. – SCHEDULE
S.S. – STAINLESS STEEL
T.O. – TOP OF
T.O.C. – TOP OF CONCRETE
T.O.S. – TOP OF STEEL
TYP. – TYPICAL
U/G – UNDERGROUND
WAS – WASTE ACTIVATED SLUDGE
WWTP – WASTEWATER TREATMENT PLANT

NOT FOR CONSTRUCTION

No	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	RJD

Revision or Issue

wolfville

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

PROCESS

LEGEND

CBCL

CBCL No	230813.02
Contract No	WOL005-2025
Date	APR 2024
Scale	N.T.S.
Designed	DAT
Drawn	MAA
Checked	DAT
Approved	DAT
Sheet No	1 of 6
Drawing No	P01

REGISTERED PROFESSIONAL ENGINEER — PROVINCE OF NOVA SCOTIA — 9146 — MAR 11/25

PIPE MATERIAL

PVC — POLYVINYL CHLORIDE

MATERIAL CODE	PIPE MATERIAL DESCRIPTION
AC	ASBESTOS CEMENT
BDI	BARE/UN–LINED DUCTILE IRON
DI	DUCTILE IRON
LDI	GLASS–LINED DUCTILE IRON
CPR	COPPER
CS	CARBON STEEL
FRP	FIBERGLASS REINFORCED PLASTIC
PLY	POLYURETHANE (HDPE)
PVC	POLYVINYL CHLORIDE
RC	REINFORCED CONCRETE
SS	STAINLESS STEEL (SCHEDULE 10)
SSS	STAINLESS STEEL (I.D./GAUGE)
SSZ	316L STAINLESS STEEL (I.D./GUAGE)

PROCESS EQUIPMENT IDENTIFICATION

XX–XXX
SEQUENTIAL NUMBER
IDENTIFIER CODE (SEE TABLE)

IDENTIFIER CODE	EQUIPMENT DESCRIPTION
P	PUMP
MXR	MIXER
BWR	BLOWER
CMP	COMPRESSOR
BLR	BOILER
FLTR	FILTER
HX	HEAT EXCHANGER
GRDR	GRINDER
INJ	INJECTOR
HG	HAND GATE
SG	SLUICE GATE
CG	CHANNEL GATE
WG	WIER GATE
STR	STRAINER
TK	TANK
V	VALVE
M	MOTOR
FS	FINE SCREEN

INSTRUMENTATION SYMBOLS

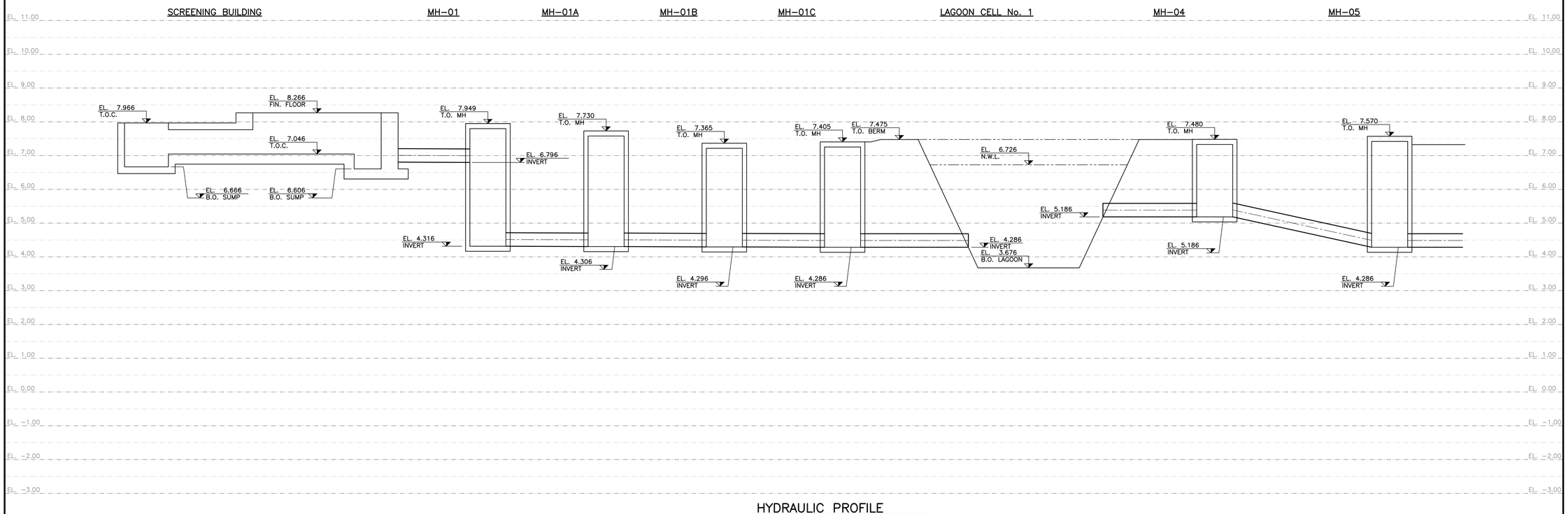
SYMBOL	DESCRIPTION	EXAMPLE
	"NEW" FIELD MOUNTED INSTRUMENT	PG 110–003 — TABLE 1 (TYP.); EQUIP.# (TYP.)
	"EXISTING" FIELD MOUNTED INSTRUMENT	PT 110–003 — TYPICAL FOR ALL
	PANEL FRONT MOUNTED INSTRUMENT IN CONTROL ROOM OR ELECTRICAL ROOM	FIC 110–003
	PANEL FRONT MOUNTED INSTRUMENT IN FIELD PANEL	HS 110–003
	FIELD MOUNTED INSTRUMENTS SHARING COMMON HOUSING	ZSC 110–003, ZSO 110–003
	DENOTES BACK LITE PUSHBUTTON OR INDICATING LIGHT	HS 110–003
	RADIO ANTENNA	

CONTROL SYMBOLS

SYMBOL	DESCRIPTION	EXAMPLE
	PLC OR ELECTRONIC CONTROLLER INPUT/OUTPUT (LOCATED IN CONTROL ROOM OR ELECTRICAL ROOM)	PLC 01 } SEE BELOW (TYPICAL)
	PLC OR ELECTRONIC CONTROLLER INPUT/OUTPUT (LOCATED IN FIELD MOUNTED PANEL)	VCC 04
	MOTOR CONTROL CENTER OR RELAY LOGIC LOCATED IN CONTROL ROOM OR ELECTRICAL ROOM	MCC 01 OR RLY 02
	MOTOR CONTROL CENTER OR RELAY LOGIC LOCATED IN FIELD MOUNTED PANEL	VCC 02
	STANDALONE VFD CABINET IN ELECTRICAL ROOM	VFD 01
	STANDALONE VFD CABINET LOCATED IN FIELD MOUNTED CABINET	VFD 01

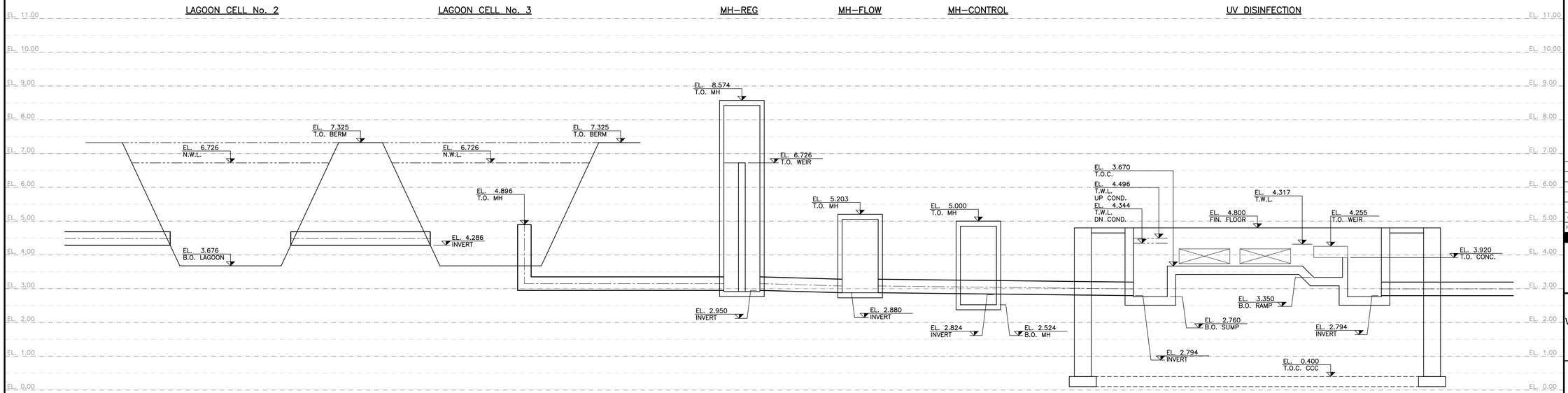
INSTRUMENT LINE LEGEND

- INSTRUMENT SUPPLY OR CONNECTION TO PROCESS
- PNEUMATIC SIGNAL LINE
- ELECTRIC SIGNAL
- CAPILLARY SIGNAL
- DATA HIGHWAY
- MECHANICAL LINKAGE



HYDRAULIC PROFILE

N.T.S. (HORIZONTAL) / 1:50 (VERTICAL)



HYDRAULIC PROFILE

N.T.S. (HORIZONTAL) / 1:50 (VERTICAL)

NOTES:

1. DRAWINGS IN GENERAL ARE TO SCALE BUT FIGURED DIMENSIONS TAKE PRECEDENCE. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR THE ACCURACY OF INFORMATION SCALED FROM THE DRAWINGS.
2. ALL DIMENSIONS USE METRIC UNITS. DIMENSIONS SHOWN IN MILLIMETERS AND POINT ELEVATIONS AS METERS (UNLESS NOTED OTHERWISE).
3. SEE PROCESS DRAWING P05 FOR PROCESS NOTES.

NOT FOR CONSTRUCTION

No	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	AM

Revision or Issue

wolfville

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

PROCESS

HYDRAULIC PROFILE

CBCL

REGISTERED PROFESSIONAL ENGINEER PROVINCE OF NOVA SCOTIA MARK ARSENAULT 9146

CBCL No 230813.02	Contract No WOL005-2025
Date APR 2024	Scale AS NOTED
Designed DAT	Drawn MAA
Checked DAT	Approved DAT
Sheet No 2 of 6	
Drawing No **P02**	

FRESH AIR SUPPLY
(SEE MECHANICAL)

GENERATOR — VCC 06 — PLC 01
SCREEN No.1 — VCC 01 — RIO 01
SCREEN No.2 — VCC 02 — RIO 01
GRINDER PS — VCC 04 — RIO 01
UV — VCC 03 — RIO 01

FROM GRAND PRE PUMP STATION (EXISTING)
FROM WOLFVILLE PUMP STATION (EXISTING)

AI–FLOW
DI–TOTALIZING PULSE
DI–FAULT
RIO 01 — FIT 00–1 — FE 00–1

AI–FLOW
DI–TOTALIZING PULSE
DI–FAULT
RIO 01 — FIT 00–2 — FE 00–2

INFLUENT SCREENING (EXISTING)

AI–LEVEL — RIO 01 — LIT 01–1 — LE 01–1
DI–LEVEL ALARM — VCC 01 — LSH 02–1
VCC 01 — FY 04–1
VCC 01 — FY 02–1
H/O/A — HS 01–1A
F/O/R — HS 01–1B
E–STOP — HS 01–1C
VCC 01A — FVR
SLIDE GATE No. 1
AUTO SCREEN No. 1
S
1
VCC 01 — DI–RUNNING DI–FAULT DI–ESTOP
OVERFLOW
BAR SCREEN
SLIDE GATE No. 2
AUTO SCREEN No. 2
VCC 02 — DI–RUNNING DI–FAULT DI–ESTOP FVR
VCC 02A
AI–LEVEL — RIO 01 — LIT 01–2 — LE 01–2
DI–LEVEL ALARM — VCC 02 — LSH 02–2
VCC 02 — FY 04–2
VCC 02 — FY 02–2
L/R/M — HS 02–2A
F/O/R — HS 02–2B
E–STOP — HS 02–2C

DRAIN

FROM BUILDING SERVICES — DRAIN

DI–COMMON ALARM
DI–FAULT
VCC 04

SP–1 SP–2

GRINDER PUMP STATION (EXISTING)

MH–01 (EXISTING)
RAW WASTEWATER
SG–01
SG–02
BYPASS

MH–01A (PROPOSED)
RAW WASTEWATER
MH–01B (PROPOSED)
RAW WASTEWATER
MH–01C (PROPOSED)

MH–02 (EXISTING)

AI–DO
DI–FAULT
RIO 01 — AE 01–2 — AIT 01–2
DO TEMP

LOW PRESSURE AIR

LAGOON CELL No.1 (PROPOSED)

DO TEMP
AE 01–3 — AIT 01–3 — PLC 01 — AI–DO DI–FAULT

LAGOON CELL No.2 (EXISTING CELL No.1)

BAFFLE

BYPASS
LOW PRESSURE AIR

LAGOON CELL No.3 (EXISTING CELL No.2)

DRY HYDRANT (EXISTING)

MH–04 (PROPOSED)
MH–05 (PROPOSED)
MH–REG (EXISTING)
SG–EX

LOW PRESSURE AIR

AO–SPEED
AI–MOTOR AMPS
DI–RUNNING
DI–AUTO
DI–O/L
DI–FAULT
PLC 01
VFD — M 01–1A — DP 02 — HS 01–1A — HS 01–1C
SPEED HOA POT
75
BD

BLOWER COMPLETE MIX No.1 (PROPOSED)

AI–PRESSURE — PIT 01–1A — PLC 01

BLOWER COMPLETE MIX No.2 (PROPOSED)

BLOWER STANDBY (PROPOSED)

60

BLOWER PARTIAL MIX (PROPOSED)

MH–03 (EXISTING)
OVERFLOW

DI–LEVEL ALARM — VCC 03 — AE 02 — UVT
AI–UV INTENSITY
DI–ALARM — VCC 03 — AE 01–A — UVI
AI–UV INTENSITY
DI–ALARM — VCC 03 — AE 01–B — UVI
DI–LEVEL ALARM — VCC 03 — LSL 03

UV DISINFECTION (EXISTING)

TREATED EFFLUENT

OUTFALL TO MINAS BASIN

EFFLUENT

MH–FLOW (EXISTING)

FE 00–7
AI–FLOW
DI–TOTALIZING PULSE
DI–FAULT
RIO 01 — FIT 00–7

EFFLUENT

MH–CONTROL (PROPOSED)

GRN — XI 08A
RED — XI 08B
HS 08
C/O/O/A
DO–OPEN
DO–CLOSE
DI–REMOTE
DI–OPENED
DI–CLOSED
RIO 01
L/O/R
O/S/C
FMV 08
M

NOTES:

1. DRAWINGS IN GENERAL ARE TO SCALE BUT FIGURED DIMENSIONS TAKE PRECEDENCE. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR THE ACCURACY OF INFORMATION SCALED FROM THE DRAWINGS.
2. ALL DIMENSIONS USE METRIC UNITS. DIMENSIONS SHOWN IN MILLIMETERS AND POINT ELEVATIONS AS METERS (UNLESS NOTED OTHERWISE).
3. SEE PROCESS DRAWING P05 FOR PROCESS NOTES.

NOT FOR CONSTRUCTION

No	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	DAT

Revision or Issue

wolfville

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT
PHASE 2 UPGRADES

PROCESS

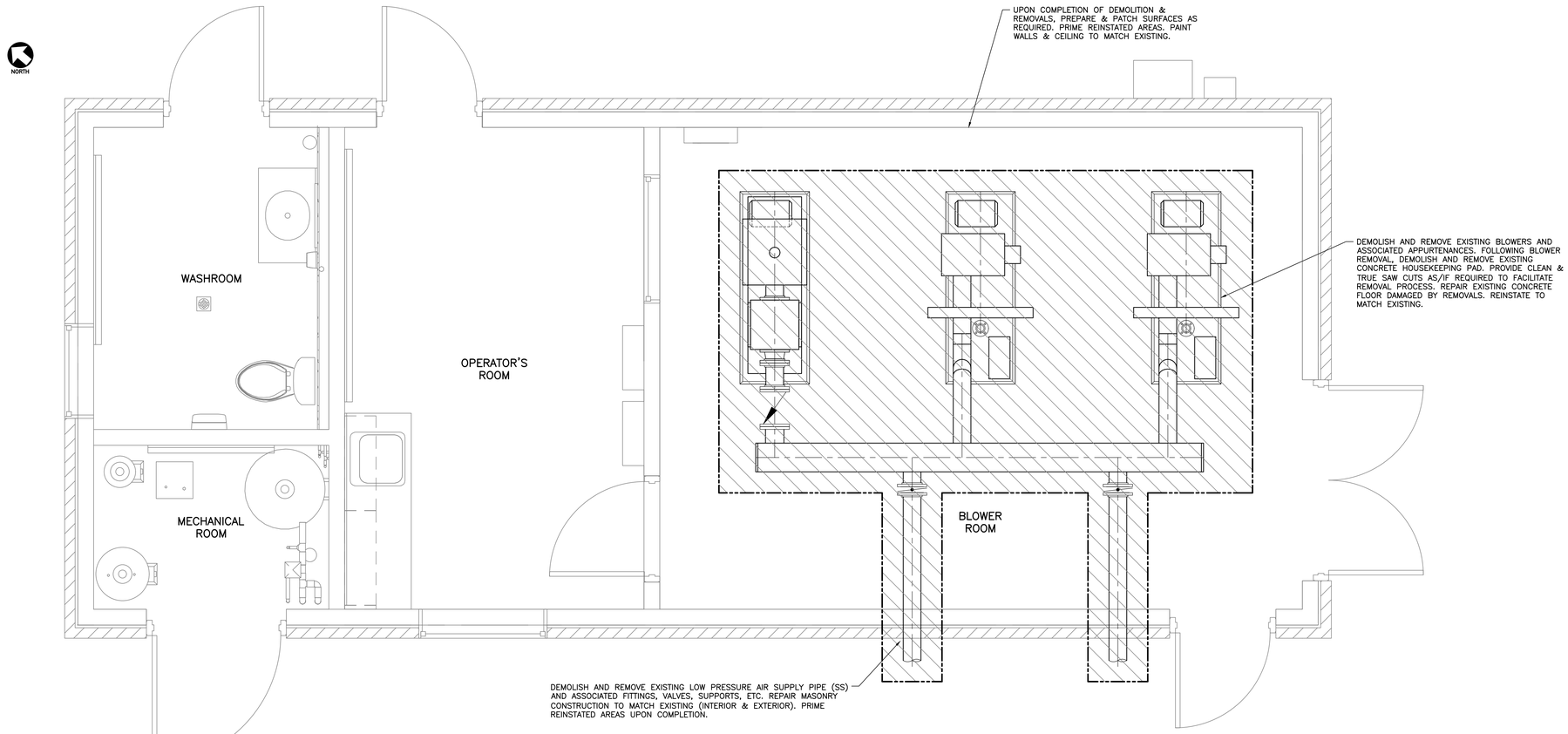
P & ID

CBCL

CBCL No 230813.02	Contract No WOL005-2025
Date APR 2024	Scale N.T.S.
Designed DAT	Drawn MAA
Checked DAT	Approved DAT
Sheet No 3 of 6	
Drawing No **P03**	

DRAWING NAME: Y:\HALIFAX\DATA\PROJECTS\2023\230813.00 TOW WWTP PHASE 2 UPGRADES\44 CAD\06 PROCESS\230813.00-P03.DWG LAYOUT NAME: P03 PLOT DATE: Wednesday, March 12, 2025 11:21:56 AM CAD OPERATOR: NOELM

CBCL-762x1066 TITLE SHEET (ARCH E)



PLAN – BLOWER BUILDING
1:20

NOTES:

1. SEE CIVIL DRAWING C02 FOR GENERAL NOTES, EXISTING WASTEWATER TREATMENT PLANT NOTES, AS WELL AS DEMOLITION & REMOVAL NOTES.
2. SEE PROCESS DRAWING P05 FOR PROCESS NOTES.

LEGEND:

DENOTES EQUIPMENT, PIPING OR MATERIALS TO BE DEMOLISHED, REMOVED OR REPLACED.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/24	JD

Revision or Issue

wolfville

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT
PHASE 2 UPGRADES

PROCESS

EXISTING BLOWER BUILDING DEMOLITION

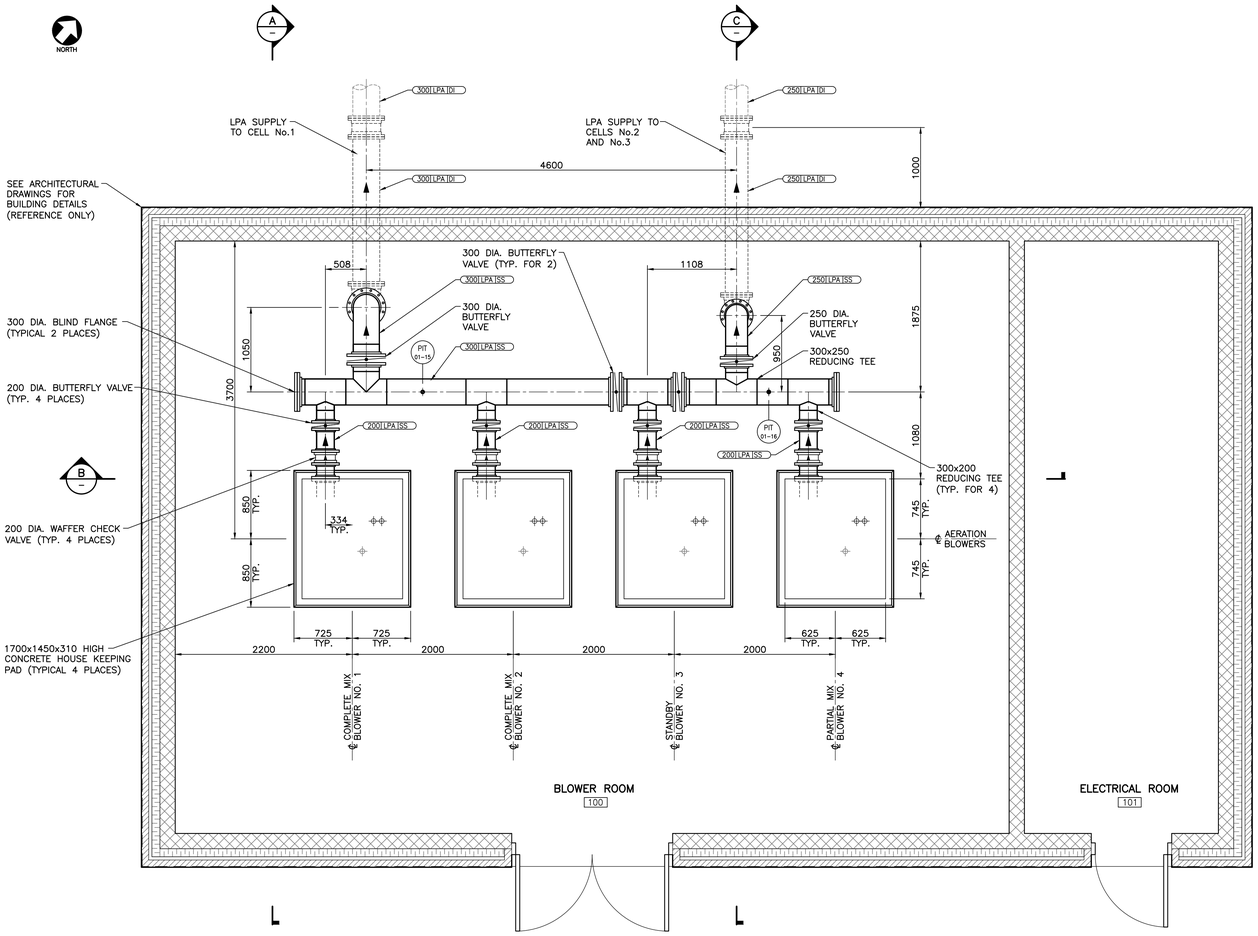
CBCL

REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF NOVA SCOTIA
DANIEL A. TRUDEL
9146

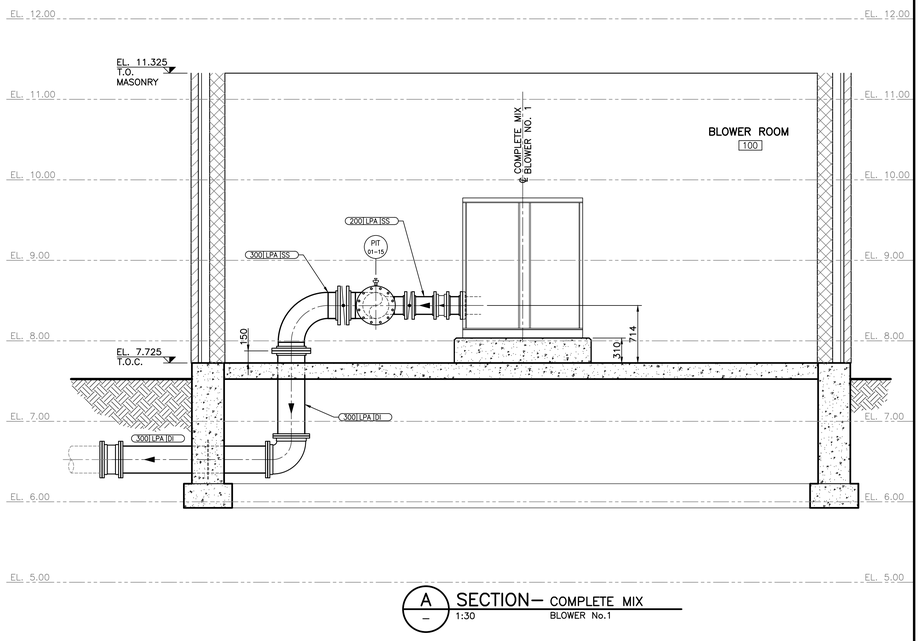
CBCL No: 230813.02	Contract No: WOL005-2025
Date: APR 2024	Scale: AS NOTED
Designed: DAT	Drawn: NHM
Checked: DAT	Approved: DAT
Sheet No: 4 of 6	
Drawing No: **P04**	

NOTES:
1. DRAWINGS IN GENERAL ARE TO SCALE BUT FIGURED DIMENSIONS TAKE PRECEDENCE. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR THE ACCURACY OF INFORMATION SCALED FROM THE DRAWINGS.
2. ALL DIMENSIONS USE METRIC UNITS. DIMENSIONS SHOWN IN MILLIMETERS AND POINT ELEVATIONS AS METERS (UNLESS NOTED OTHERWISE).

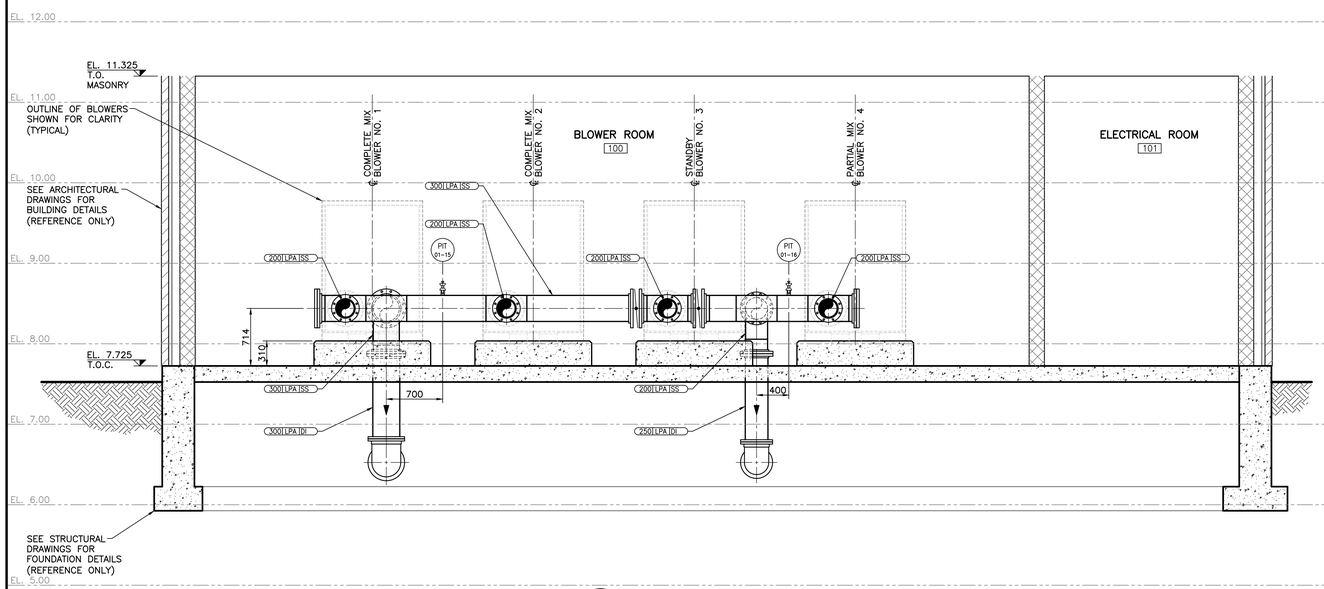
PROCESS NOTES:
1. ALL WORK IS TO BE EXECUTED IN A SAFE AND ORDERLY MANNER. CONTRACTOR IS TO MAINTAIN A CLEAN JOBSITE AND REMOVE DEBRIS AND WASTE FROM THE SITE ON A DAILY BASIS. WASTE DISPOSAL TO BE IN ACCORDANCE WITH ENVIRONMENTAL REGULATIONS, AND IS THE RESPONSIBILITY OF THE CONTRACTOR.
2. NO CHANGES OR REVISIONS TO THE WORK SHALL BE EXECUTED WITHOUT THE APPROVAL OF THE ENGINEER.
3. SHOP DRAWINGS FOR ALL COMPONENTS SHALL BE SUBMITTED TO THE OWNER'S ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE PURCHASE OR USE.
4. ALL SUPPORTS, HANGERS, BRACKETS AND ASSOCIATED HARDWARE WITHIN TANKS SHALL BE 316 STAINLESS STEEL UNLESS NOTED OTHERWISE.
5. ABSOLUTELY NO JUNCTION BOXES WITHIN TANKS.
6. SEE MECHANICAL DRAWINGS FOR BLOWER INTAKE DUCTWORK.
7. SEE ELECTRICAL DRAWINGS FOR WIRING OF PROCESS EQUIPMENT AND ASSOCIATED APPURTENANCES.
8. MECHANICAL AND PROCESS PIPES TO RUN 1000 OUTSIDE OF STRUCTURES AND THE CIVIL CONTRACTOR IS TO CONTINUE PIPES FROM THIS POINT UNLESS NOTED OTHERWISE.
9. SEE PROCESS DRAWINGS:
   - 9.1. P01 FOR LEGEND.
   - 9.2. P02 FOR HYDRAULIC PROFILE.
   - 9.3. P03 FOR P&ID.
   - 9.4. P04 FOR DEMOLITION.
   - 9.5. P06 FOR MISCELLANEOUS DETAILS.



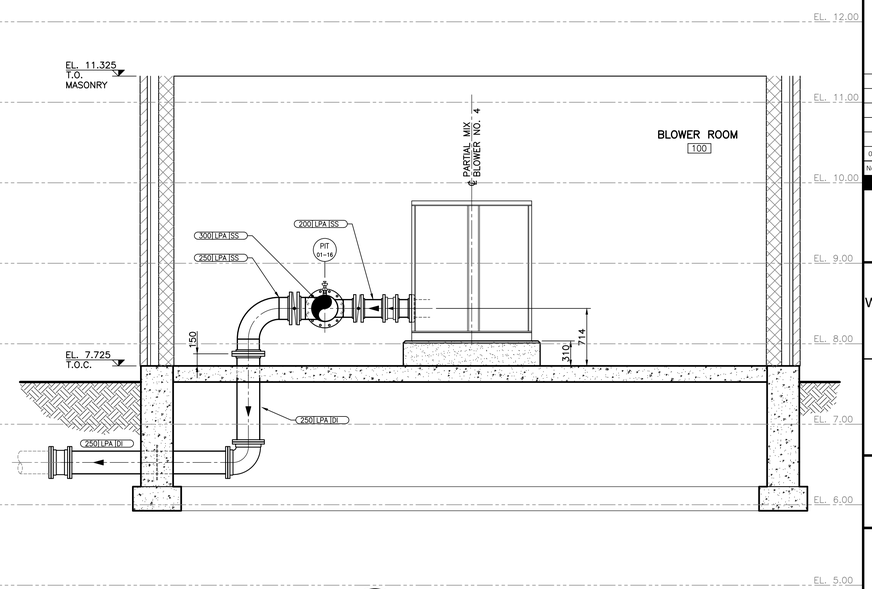
PLAN— BLOWER BUILDING
1:30



A — SECTION— COMPLETE MIX BLOWER No.1
1:30



B — SECTION— AERATION BLOWERS
1:30



C — SECTION— PARTIAL MIX BLOWER No.4
1:30

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	AJ

Revision or Issue

wolfville

TOWN OF WOLFVILLE

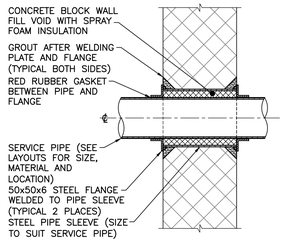
WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

PROCESS

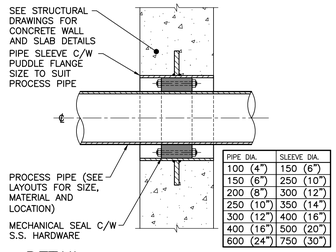
BLOWER BUILDING PLAN AND SECTIONS

CBCL

CBCL No 230813.02	Contract No WOL005-2025
Date APR 2024	Scale 1:30
Designed DAT	Drawn MAA
Checked DAT	Approved DAT
Sheet No 5 of 6	
Drawing No P05	

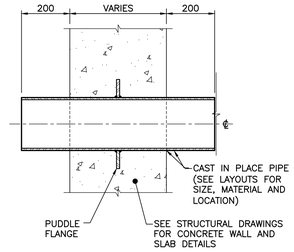


DETAIL— PIPE PENETRATION
N.T.S. THROUGH BLOCK WALL

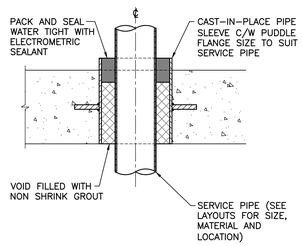


PIPE DIA.	SLEEVE DIA.
100 (4")	150 (6")
150 (6")	250 (10")
200 (8")	300 (12")
250 (10")	350 (14")
300 (12")	400 (16")
400 (16")	500 (20")
600 (24")	750 (30")

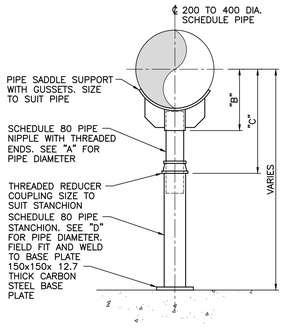
DETAIL— PIPE PENETRATION
N.T.S. MECHANICAL SEAL C/W PIPE SLEEVE



DETAIL— PIPE PENETRATION
N.T.S. CAST IN PLACE PIPE C/W PUDDLE FLANGE

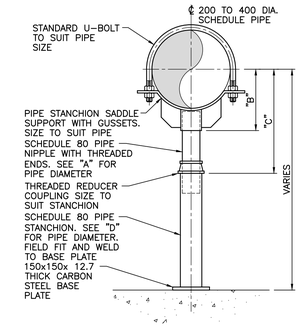


DETAIL— PIPE PENETRATION
N.T.S. THROUGH CONCRETE SLAB C/W PIPE SLEEVE



NOMINAL PIPE SIZE (NPS) SUPPORTED	"A" NPS	"B" REF.	"C" MIN.	"D" NPS
200 (8")	50 (2")	179	298	75 (3")
250 (10")	50 (2")	216	343	75 (3")
300 (12")	50 (2")	254	381	75 (3")
350 (14")	75 (3")	279	413	
400 (16")	75 (3")	314	451	100 (4")

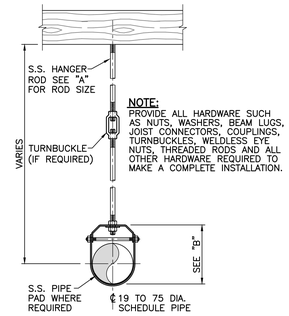
DETAIL— PIPE SADDLE SUPPORT
N.T.S. WITH ADJUSTABLE SADDLE



NOMINAL PIPE SIZE (NPS) SUPPORTED	"A" NPS	"B" REF.	"C" MIN.	"D" NPS
200 (8")	50 (2")	179	298	75 (3")
250 (10")	50 (2")	216	343	75 (3")
300 (12")	50 (2")	254	381	75 (3")
350 (14")	75 (3")	279	413	100 (4")
400 (16")	75 (3")	314	451	100 (4")

USE PIPE PAD FOR S.S. I.D. GAUGE PIPE (SEE DETAIL)

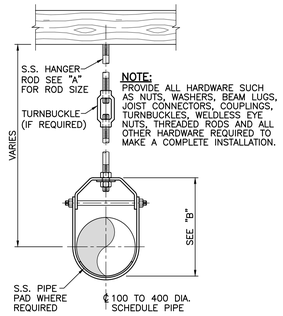
DETAIL— PIPE STANCHION SUPPORT
N.T.S. WITH ADJUSTABLE STANCHION



NOMINAL PIPE SIZE (NPS) SUPPORTED	"A" DIA.	"B" REF.	RECOMMENDED HANGER SPACING
19 (3/4")	10 (3/8")	75	1800 (6'-0")
25 (1")	10 (3/8")	79	2100 (7'-0")
32 (1.1/4")	10 (3/8")	98	2400 (8'-0")
38 (1.1/2")	10 (3/8")	102	2700 (9'-0")
50 (2")	10 (3/8")	127	3000 (10'-0")
64 (2.1/2")	13 (1/2")	159	3300 (11'-0")
75 (3")	13 (1/2")	153	3600 (12'-0")

USE PIPE PAD FOR S.S. I.D. GAUGE PIPE (SEE DETAIL)

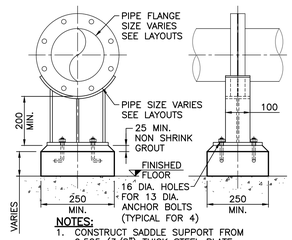
DETAIL— TYPICAL CLEVIS HANGER
N.T.S. LIGHT DUTY PIPE HANGER



NOMINAL PIPE SIZE (NPS) SUPPORTED	"A" DIA.	"B" REF.	RECOMMENDED HANGER SPACING
100 (4")	16 (5/8")	191	4200 (14'-0")
150 (6")	19 (3/4")	254	5100 (17'-0")
200 (8")	19 (3/4")	337	5700 (19'-0")
250 (10")	22 (7/8")	391	6600 (22'-0")
300 (12")	22 (7/8")	448	6900 (23'-0")
350 (14")	25 (1")	502	7500 (25'-0")
400 (16")	25 (1")	578	8100 (27'-0")

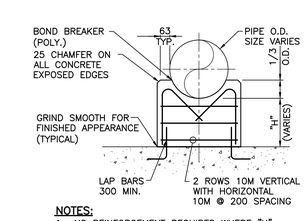
USE PIPE PAD FOR S.S. I.D. GAUGE PIPE (SEE DETAIL)

DETAIL— TYPICAL CLEVIS HANGER
N.T.S. STANDARD DUTY PIPE HANGER



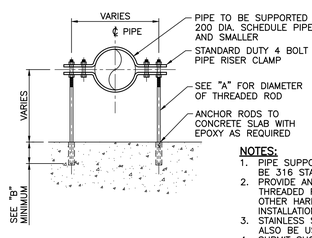
NOTES:
1. CONSTRUCT SADDLE SUPPORT FROM 9.525 (3/8") THICK STEEL PLATE.
2. SUPPORT TO BE HOT DIP GALVANIZED.
3. ALL WELDS 6mm.
4. SUBMIT SHOP DRAWINGS FOR APPROVAL.

DETAIL— TYPICAL VALVE SUPPORT
N.T.S.



NOTES:
1. NO REINFORCEMENT REQUIRED WHERE "H" IS LESS THAN 250.
2. CONCRETE AND REINFORCING STEEL AS SPECIFIED UNDER DIVISION 3.
3. CONCRETE SUPPORTS SHALL BE 300 WIDE MINIMUM (HORIZONTAL. LENGTH).

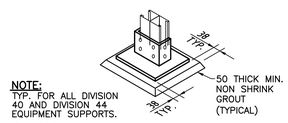
DETAIL— TYPICAL CONCRETE SUPPORT
N.T.S.



NOMINAL PIPE SIZE (NPS) SUPPORTED	"A" DIA.	"B" MIN. EMBEDMENT
19 (3/4")	10 (3/8")	75 (3")
25 (1")	10 (3/8")	75 (3")
32 (1.1/4")	10 (3/8")	75 (3")
38 (1.1/2")	10 (3/8")	75 (3")
50 (2")	13 (1/2")	89 (3.1/2")
63 (2.1/2")	13 (1/2")	89 (3.1/2")
75 (3")	13 (1/2")	89 (3.1/2")
89 (3.1/2")	13 (1/2")	89 (3.1/2")
100 (4")	16 (5/8")	89 (3.1/2")
125 (5")	16 (5/8")	89 (3.1/2")
150 (6")	19 (3/4")	100 (4")
200 (8")	22 (7/8")	100 (4")

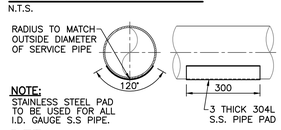
NOTES:
1. PIPE SUPPORTS FOR ALL SUBMERGED PIPES ARE TO BE 316 STAINLESS STEEL UNLESS NOTED OTHERWISE.
2. PROVIDE AND INSTALL 4 BOLT PIPE CLAMPS, THREADED RODS, BOLTS, NUTS, WASHERS AND ALL OTHER HARDWARE REQUIRED TO MAKE A COMPLETE INSTALLATION.
3. STAINLESS STEEL BOLTED OFFSET PIPE CLAMPS CAN ALSO BE USED IF ROOM PERMITS.
4. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO STARTING CONSTRUCTION.

DETAIL— PIPE SADDLE SUPPORT
N.T.S. WITH ADJUSTABLE SADDLE



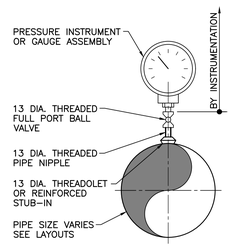
NOTE:
TYP. FOR ALL DIVISION 40 AND DIVISION 44 EQUIPMENT SUPPORTS.

DETAIL— EQUIPMENT PADS
N.T.S.



NOTE:
STAINLESS STEEL PAD TO BE USED FOR ALL I.D. GAUGE S.S PIPE.

DETAIL— PIPE PAD FOR I.D. PIPE
N.T.S.



DETAIL— PRESSURE GAUGE
N.T.S. DIRECT MOUNTED

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	DJ

Revision or Issue

wolfville

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

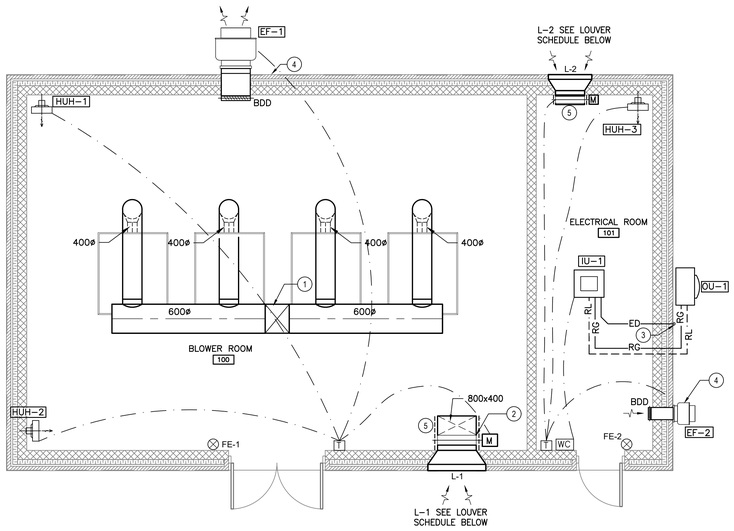
PROCESS

DETAILS

CBCL

CBCL No 230813.02	Contract No WOL005-2025
Date APR 2024	Scale AS NOTED
Designed DAT	Drawn RH
Checked DAT	Approved DAT
Sheet No 6 of 6	
Drawing No P06	

REGISTERED PROFESSIONAL ENGINEER — PROVINCE OF NOVA SCOTIA — DANIEL A. TRASK — 9146



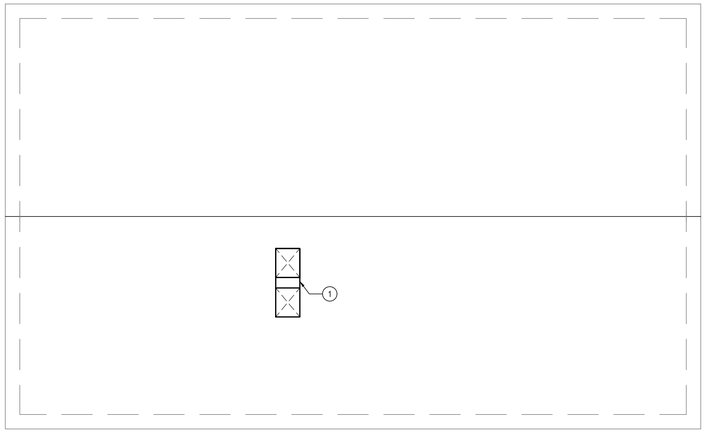
1 PLAN – HVAC LAYOUT
1:50

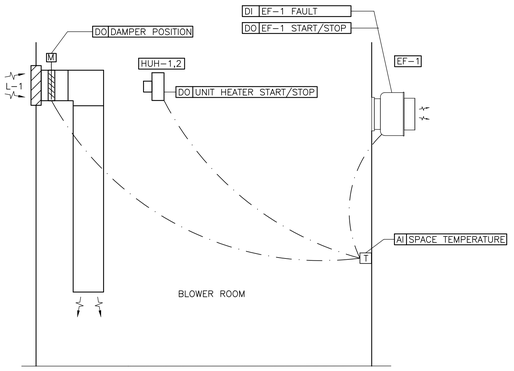
KEYNOTES:

1. 600x500 FRESH AIR DUCT DOWN FROM ROOF TO SERVE BLOWERS C/W THERMAL INSULATION FOR ENTIRE LENGTH. PROVIDE DN400 PVC PIPE FROM DUCT PLENUM DOWN TO BLOWER INLET, CONNECTION AT BLOWER IS DN200, TYPICAL OF 4. PRIOR TO INSTALLING DUCT, CONFIRM LOCATION OF TRUSSES ABOVE CEILING, AND LOCATION OF CONNECTIONS ON BLOWERS. REFER TO ARCHITECTURAL DWGS.
2. DUCT FOR AMBIENT AIR COOLING. PROVIDE INSULATED MOTORIZED DAMPER W ACTUATOR. INSULATE DUCT FROM LOUVER TO DAMPER. DUCT TO DROP DOWN TO 450mm AFF. ADD SCREEN AT BOTTOM..
3. CONDENSATE DRAIN TO OUTSIDE.
4. EXHAUST FAN, SEE STRUCTURAL DRAWINGS FOR PENETRATION HEIGHT. C/W BACKDRAFT DAMPER AND SCREEN AT INLET.
5. PROVIDE SCREEN AT DUCT OPENING.

CONTROLS NOTES:

1. THE CONTROLS SCOPE OF WORK IS TO EXTEND THE EXISTING BMS SYSTEM TO INCLUDE THIS BUILDING.
2. CONTROL WIRING BETWEEN BUILDINGS IS TO RUN IN CONDUIT FROM SCREENING BUILDING TO THIS BUILDING INSIDE DUCTBANK BY OTHERS. SEE ELECTRICAL DRAWING E02.



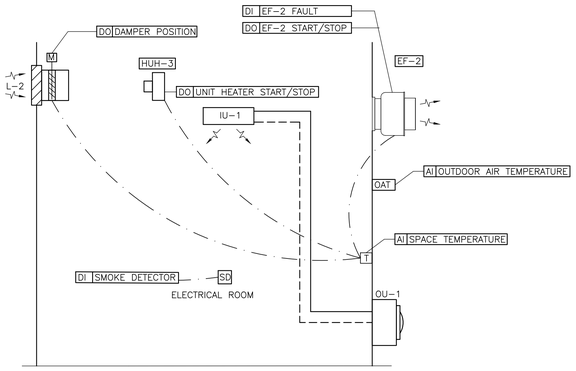


EF-1 CONTROLS SEQUENCES:

THE FAN IS NORMALLY OFF, AND THE DAMPER IS CLOSED.
WHEN SPACE TEMPERATURE IS GREATER THAN [32] DEGC, OPEN DAMPER, AND TURN ON EF-1. WHEN SPACE TEMPERATURE = OUTDOOR AIR TEMPERATURE, TURN OFF FAN, AND CLOSE DAMPER. HEATING SPACE TEMPERATURE SETPOINT SHALL BE [10] DEG C', IF SPACE DROPS BELOW THAT, TURN ON HUH-1 AND 2. IF SPACE TEMP IS ABOVE 38C OR DROPS BELOW 5C, SEND ALARM TO OWS.

3 DETAIL – BLOWER ROOM CONTROLS
N.T.S.

2 PLAN – ROOF LAYOUT
1:50



HEAT PUMP

THE HEAT PUMP WILL MODULATE TO MAINTAIN THE SPACE TEMPERATURE SETPOINT OF [20] DEG C. WHEN THE SPACE TEMPERATURE RISES ABOVE [28] DEG C, OPEN DAMPER, TURN ON EF-2, HEATING SPACE SETPOINT SHALL BE [10] DEG C. IF SPACE DROPS BELOW THAT, TURN ON HUH-3. IF SPACE TEMP IS ABOVE 38C OR DROPS BELOW 5C, SEND ALARM TO OWS.

4 DETAIL –ELECTRICAL ROOM CONTROLS
N.T.S.

ELECTRIC HEATER SCHEDULE

DESIG.	MANUFACTURER	MODEL	LOCATION	ELECTRICAL	AIRFLOW L/s	HEATING OUTPUT kW	COMMENTS
HUH-1,2	REZNOR	EGEB	BLOWER ROOM	600V/3ph/60Hz 1/50 HP	146	5	ELECTRIC UNIT HEATER, C/W 40A DISCONNECT SWITCH BA14. HEATERS TO BE INSTALLED BY MECHANICAL CONTRACTOR, THERMOSTAT BY CONTROLS CONTRACTOR.
HUH-3	REZNOR	EGEB	ELECTRICAL ROOM	600V/3ph/60Hz 1/50 HP	146	3	ELECTRIC UNIT HEATER, c/w WALL MOUNT LINE VOLTAGE THERMOSTAT CL5 AND 40A DISCONNECT SWITCH BA14. HEATERS TO BE INSTALLED BY MECHANICAL CONTRACTOR.

EXHAUST FAN SCHEDULE

DESIG.	DESCRIPTION	MANUFACTURER	MODEL	AIRFLOW (L/s)	STATIC PRESSURE (Pa)	POWER (w)	ELECTRICAL	COMMENTS
EF-1	BLOWER ROOM WALL MOUNTED EXHAUST FAN	COOK	150 ACWB	1483	62	560	120V/1ø/60Hz	DIRECT DRIVE WALL MOUNT FAN C/W NEMA WALL DISCONNECT, FAN SPEED CONTROLLER, GRAVITY BACKDRAFT DAMPER, WIRE GUARD.
EF-2	ELECTRICAL ROOM WALL MOUNTED EXHAUST FAN	COOK	100 ACWB	226	62	125	120V/1ø/60Hz	DIRECT DRIVE WALL MOUNT FAN C/W NEMA WALL DISCONNECT, FAN SPEED CONTROLLER, GRAVITY BACKDRAFT DAMPER, WIRE GUARD.

LOUVRE SCHEDULE

DESIG.	MANUFACTURER	MODEL	SIZE	DEPTH	COMMENTS
L-1	RUSKIN	ELF6375DX	1200x600	150	ALUMINUM LOUVRE, DRAINABLE BLADES, c/w BIRDSCREEN.
L-2	RUSKIN	ELF6375DX	600x300	150	ALUMINUM LOUVRE, DRAINABLE BLADES, c/w BIRDSCREEN.

HEAT PUMP SCHEDULE

DESIG.	MANUFACTURER	MODEL	COOLING CAPACITY (kW)	HEATING CAPACITY (kW)	ELECTRICAL	COMMENTS
IU-1	MITSUBISHI ELECTRIC	PLA-A42EA8	12.3	--	208V/1ph/60Hz; 31A MOCP; (OUTDOOR)	OAT IN PEAK COOLING = 32°C. ELECTRICAL ROOM COOLING ONLY, NOT TO BE USED FOR HEATING. INCLUDE WIRED REMOTE CONTROL THERMOSTAT PAR-41MAAU, REFRIGERANT R410A. C/W MANUFACTURERS WALL MOUNTING KIT AS REQUIRED.
OU-1	MITSUBISHI ELECTRIC	PUY-A42NKA7	12.3	--		IU-1 CEILING CASSETTE C/W INTEGRAL CONDENSATE PUMP. MAX AMBIENT TEMP IN COOLING: 32°C. ELECTRICAL ROOM COOLING ONLY, NOT TO BE USED FOR HEATING. INCLUDE WIRED REMOTE CONTROL THERMOSTAT PAR-41MAAU, REFRIGERANT R410A.

VENTILATION LEGEND:

- T — SPACE TEMPERATURE SENSOR TO DDC
- FD — FIRE DAMPER
- BD — BALANCING DAMPER
- BDD — BACKDRAFT DAMPER
- LINE VOLTAGE WIRING
- THERMALLY INSULATED DUCT
- ACOUSTIC DUCT LINING
- M — MOTORIZED DAMPER
- EF-# — EXHAUST FAN
- SUPPLY DIFFUSER
- RETURN GRILLE
- HUH-# — HORIZONTAL UNIT HEATER
- X-X / XX — GRILLE/DIFFUSER DESIGNATION (SEE SCHEDULE) / DESIGN AIRFLOW (l/s)
- X-# — MECHANICAL EQUIPMENT TAG
- RL — REFRIGERANT LIQUID
- RG — REFRIGERANT GAS
- ED — EQUIPMENT DRAIN
- FE-1 — 10-B,C FIRE EXTINGUISHER C/W WITH MOUNTING KIT.
- FE-2 — 20lb CO_2 FIRE EXTINGUISHER C/W WITH MOUNTING KIT.
- WC — WALL CONTROLLER
- SD — SMOKE DETECTOR

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/27	JJ

Revision or Issue

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

MECHANICAL

BLOWER BUILDING HVAC AND ROOF LAYOUTS

CBCL

CBCL No	230813.02
Contract No	WOL005-2025
Date	APR 2024
Scale	AS NOTED
Designed	TT
Drawn	JJ
Checked	DB
Approved	DAT
Sheet No	1 of 1
Drawing No	M01

2025.03.13.

ELECTRICAL & INSTRUMENTATION LEGEND

POWER

SYMBOL	DESCRIPTION
	15A, 120V, DUPLEX RECEPTACLE: TYPE 5-15R
	CONTROL PANEL
	DISCONNECT SWITCH
	DIRECT CONNECTION
J P	JUNCTION BOX / PULL BOX
X	THREE PHASE MOTOR X=(HP RATING)
X	SINGLE PHASE MOTOR X=(HP RATING)
UH	UNIT HEATER
	DATA/VOICE OUTLET
	DATA OUTLET
	PROCESS/CONTROL NETWORK OUTLET
	GROUND ROD
T	THERMOSTAT (LINE VOLTAGE)
XXX	MISCELLANEOUS ELECTRICAL EQUIPMENT (AS INDICATED)
$DS	DISCONNECT SWITCH (TOGGLE TYPE)

LIGHTING

	FLOOD LIGHT (TYPE AS INDICATED)
	FIXTURE - WALL MOUNTED (TYPE AS INDICATED)
$	LINE VOLTAGE SWITCH
	EXIT SIGN - WALL MOUNTED (TYPE AS INDICATED)
R G	LED WALL MOUNTED LUMINAIRE, MOUNT 300mm ABOVE DOOR. RATING 120V, C/W WIRE GUARD OVER RED OR GREEN GLASS CLOBES.
	EMERGENCY LIGHT C/W BATTERY PACK (TYPE AS INDICATED)
	EMERGENCY LIGHT REMOTE HEAD PACK (TYPE AS INDICATED)
	SUSPENDED LIGHT FIXTURE

SCHEMATIC

SYMBOL	DESCRIPTION
H O A	HAND-OFF-AUTO SWITCH
X	RELAY (X DENOTES RELAY TAG)
X	PILOT LIGHT X DENOTES COLOR, W=WHITE, R=RED, G=GREEN, A=AMBER
	NORMALLY OPEN PUSH BUTTON
	NORMALLY CLOSE PUSH BUTTON
	TERMINAL BLOCK

SINGLE LINE DIAGRAM

SYMBOL	DESCRIPTION
	BREAKER
	DISCONNECT SWITCH
	FUSE
	GENERATOR
	GROUND
M	METER
	CT'S AND P'S
ELEC. O/L	ELECTRONIC OVERLOAD
XXX	MISCELLANEOUS ELECTRICAL EQUIPMENT (AS INDICATED)
XX/A XXX/XXXV XP, XW XXX XX CKTS	PANELBOARD
	LINE OR LOAD REACTOR
	AUTOMATIC TRANSFER SWITCH
	TRANSFORMER (TYPE AS INDICATED)
VFD	VARIABLE FREQUENCY DRIVE
dV/dT	dV/dT FILTER
SPD	SURGE PROTECTIVE DEVICE
	UNDERGROUND CABLING/CONDUIT

SINGLE LINE DIAGRAM (CONT.)

SYMBOL	DESCRIPTION
HRV	HEAT RECOVERY VENTILATOR

CABLE DIAGRAM

SYMBOL	DESCRIPTION
XXX YYY	INSTRUMENT TAG NUMBER XXX=INSTRUMENT TYPE YYY=INSTRUMENT NUMBER

FIRE ALARM

SYMBOL	DESCRIPTION
SD	SMOKE DETECTOR

ELECTRICAL LINES

SYMBOL	DESCRIPTION
U/G	UNDERGROUND LINES
O/H	OVERHEAD LINES

ABBREVIATIONS

AC	=	ABOVE CEILING
AE	=	ANALYZER ELEMENT
AIT	=	ANALYZER INDICATING TRANSMITTER
DCN	=	DISCONNECT SWITCH
EX	=	SUITABLE FOR HAZARDOUS AREA
FE	=	FLOW ELEMENT
FIT	=	FLOW INDICATING TRANSMITTER
FY	=	FLOW SOLENOID
GFI	=	GROUND-FAULT CIRCUIT INTERRUPTER
I.S.	=	INTRINSICALLY SAFE
LEL	=	LOWER EXPLOSIVE LIMIT
LSH	=	LEVEL SWITCH HIGH
LT	=	LEVEL TRANSMITTER
M	=	MOTOR
MH	=	SEWAGE MANHOLE
MCC	=	MOTOR CONTROL CENTER
PI	=	PRESSURE INDICATOR
UP	=	UTILITY POLE
UVT	=	ULTRAVIOLET TRANSMITTER
VCC	=	VENDER CONTROL CABINET
VFD	=	VARIABLE FREQUENCY DRIVE
WP	=	WEATHER PROOF
*	=	INDICATES INSTRUMENTATION & CONTROLS EQUIPMENT PROVIDED BY OWNER AND FREE ISSUED TO THE SITE CONTRACTOR, FOR INSTALLATION, CABLING, TERMINATING, & TESTING AS REQUIRED. CONTRACTOR TO REFER TO APPROVED VENDOR SHOP DWGS. TO VERIFY CABLING REQUIREMENTS AND TERMINATION DETAILS.

NOT FOR CONSTRUCTION

No	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	

Revision or Issue

wolfville

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

ELECTRICAL

LEGEND

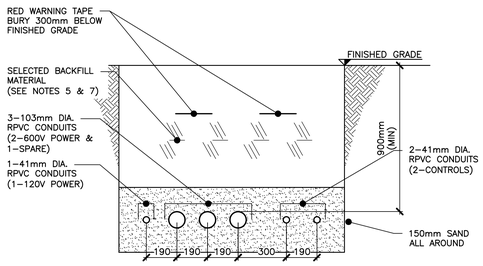
CBCL

REGISTERED PROFESSIONAL ENGINEER
Mar 11/25
L. T. Hick
6663
PROVINCE OF NOVA SCOTIA

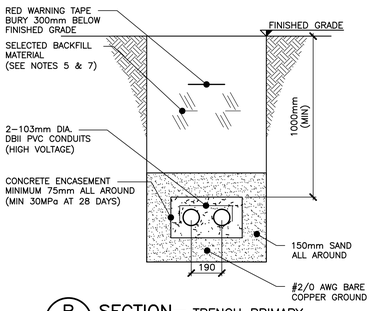
CBCL No	230813.02
Contract No	WOL005-2025
Date	APR 2024
Scale	AS NOTED
Designed	CKS
Drawn	IGG
Checked	LH
Approved	DAT
Sheet No	1 of 10
Drawing No	E01

DRAWING NAME: \\CBCL.LAN\CBCL\HALIFAX\DATA\PROJECTS\2023\230813.00 TOW WWTP PHASE 2 UPGRADES\64 CAD\05 ELEC\230813.00-E01 .DWG LAYOUT NAME: LEGEND PLOT DATE: Tuesday, March 11, 2025 5:43:06 PM CAD OPERATOR: IGLIFONEA

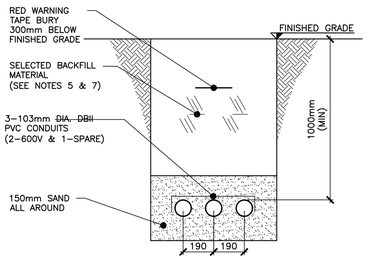
CBCL-762x1066 TITLE SHEET (ARCH E)



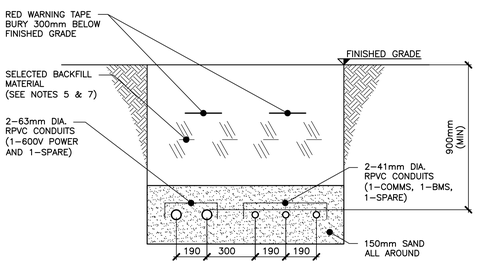
A – SECTION– GENERATOR DUCTBANK
N.T.S (SEE NOTES 5, 6, 7, 8 & 9)



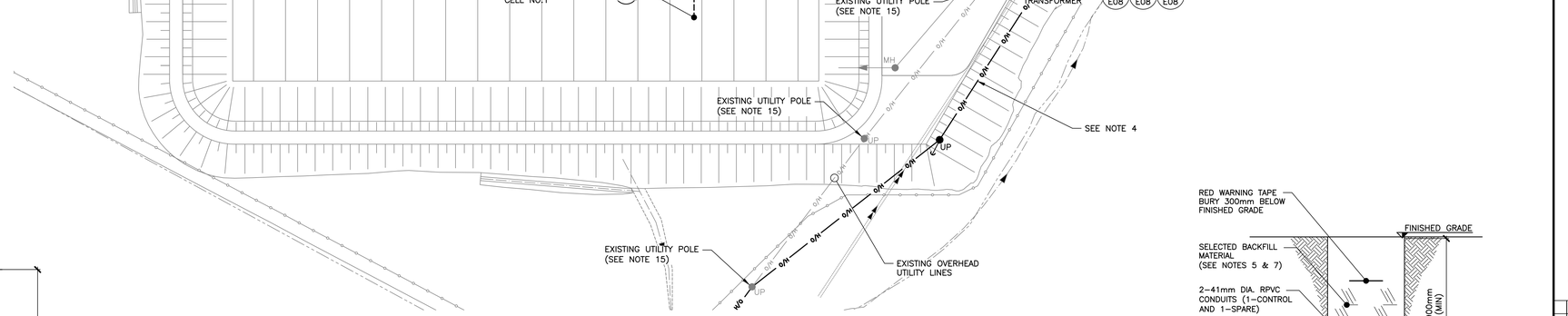
B – SECTION– TRENCH PRIMARY
N.T.S (SEE NOTES 5, 6, 7, 8 & 9)



C – SECTION– TRENCH SECONDARY
N.T.S (SEE NOTES 5, 6, 7, 8 & 9)



D – SECTION– SCREENING TO BLOWER BUILDING
N.T.S (SEE NOTES 5, 6, 7, 8 & 9)

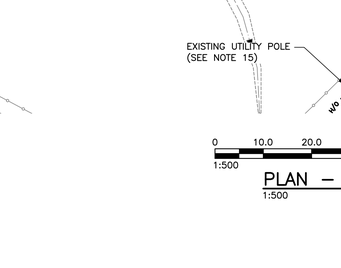


0 10.0 20.0 30.0 40.0 50.0m
1:500

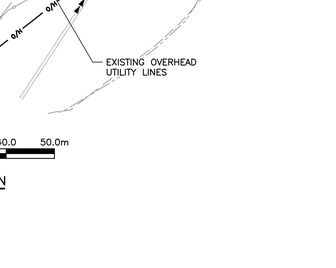
PLAN – SITE PLAN
1:500

E – SECTION– DO PROBE FOR LAGOONS
N.T.S (SEE NOTES 5, 6, 7, 8 & 9)

F – SECTION– DO PROBE FOR LAGOONS #1 & #2
N.T.S (SEE NOTES 5, 6, 7, 8 & 9)

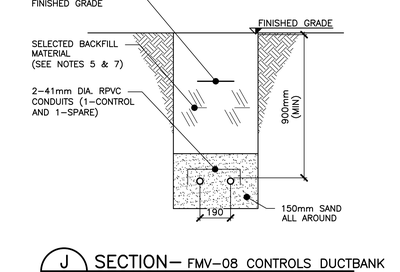


G – SECTION– TELECOM SERVICES
N.T.S (SEE NOTES 5, 6, 7, 8, 9 & 10)



H – SECTION– BUILDING AND CONTROL BUILDING
N.T.S (SEE NOTES 5, 6, 7, 8 & 9)

COMMUNICATION LINK FOR SCREENING



I – SECTION– MANHOLE
N.T.S (SEE NOTES 5, 6, 7, 8 & 9)

POWER AND CONTROL FOR NEW

J – SECTION– FMV–08 CONTROLS DUCTBANK
N.T.S (SEE NOTES 5, 6, 7, 8 & 9)

NOTES:

1. UNLESS OTHERWISE NOTED, ELECTRICAL EQUIPMENT IS NEW.
2. ARRANGE AND COORDINATE INSTALLATION OF NEW UTILITY SERVICE WITH OWNER'S SITE REPRESENTATIVE AND LOCAL POWER UTILITY PRIOR TO BEGINNING WORK.
3. VERIFY FINAL UTILITY POLE LOCATION WITH THE UTILITY PRIOR TO INSTALLATION OF THE UNDERGROUND PRIMARY DUCTBANK.
4. ARRANGE FOR THE POWER UTILITY TO REROUTE THE EXISTING OVERHEAD LINE AND POLES TO THE SITE AS REQUIRED FOR NEW CONSTRUCTION.
5. BACKFILL TRENCH WITH SELECTED BACKFILL SOIL FREE FROM LARGE ROCK AND DEBRIS, AND IN ACCORDANCE WITH THE SPECIFICATIONS.
6. LOCATIONS OF BURIED SERVICES ARE APPROXIMATE. CONFIRM THE LOCATIONS OF ANY EXISTING BURIED SERVICES AS REQUIRED FOR INSTALLATION OF ANY NEW UNDERGROUND ELECTRICAL SERVICES. REFER TO CIVIL DRAWINGS FOR OTHER BURIED SERVICES.
7. BACKFILL TRENCH IN LAYERS NOT EXCEEDING 300MM (MECHANICALLY TAMPED).
8. MAINTAIN MINIMUM 1M LATERAL SEPARATION FROM ALL OTHER PIPING AND MAINTAIN 300MM SEPARATION BETWEEN POWER AND COMMUNICATION/INSTRUMENTATION CONDUITS.
9. IF SITE CONDITIONS PROHIBIT TRENCH DEPTH AS PER INSTALLATION DETAILS, ADVISE THE ENGINEER.
10. COORDINATE WITH OWNER FOR VALLEY COMMUNITY FIBRE NETWORK (VCFN) TO PROVIDE NEW FIBRE HIGH SPEED INTERNET TO THE TREATMENT PLANT.
11. CONTRACTOR TO INSTALL MINIMUM #12 FISH WIRE IN EACH SPARE CONDUIT AND SECURELY CAP BOTH ENDS.
12. REFER TO HAZARDOUS AREA CLASSIFICATION ON DRAWING E07
13. INSTALL DO PROBES AT LOCATIONS INDICATED ON THIS DRAWING. CONTRACTOR TO RUN CABLE ALONG MESSENGER CABLE FOR FINAL TERMINATION TO THE TRANSMITTER WITHIN BUILDING.
14. DISCONNECT AND REMOVE EXISTING DO PROBES. PULL ALL CABLES BACK TO THE SOURCE.
15. COORDINATE THE REMOVAL AND MODIFICATION OF UTILITY POLES WITH LOCAL UTILITY.

NOT FOR CONSTRUCTION

No	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	

Revision or Issue

wolfville

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

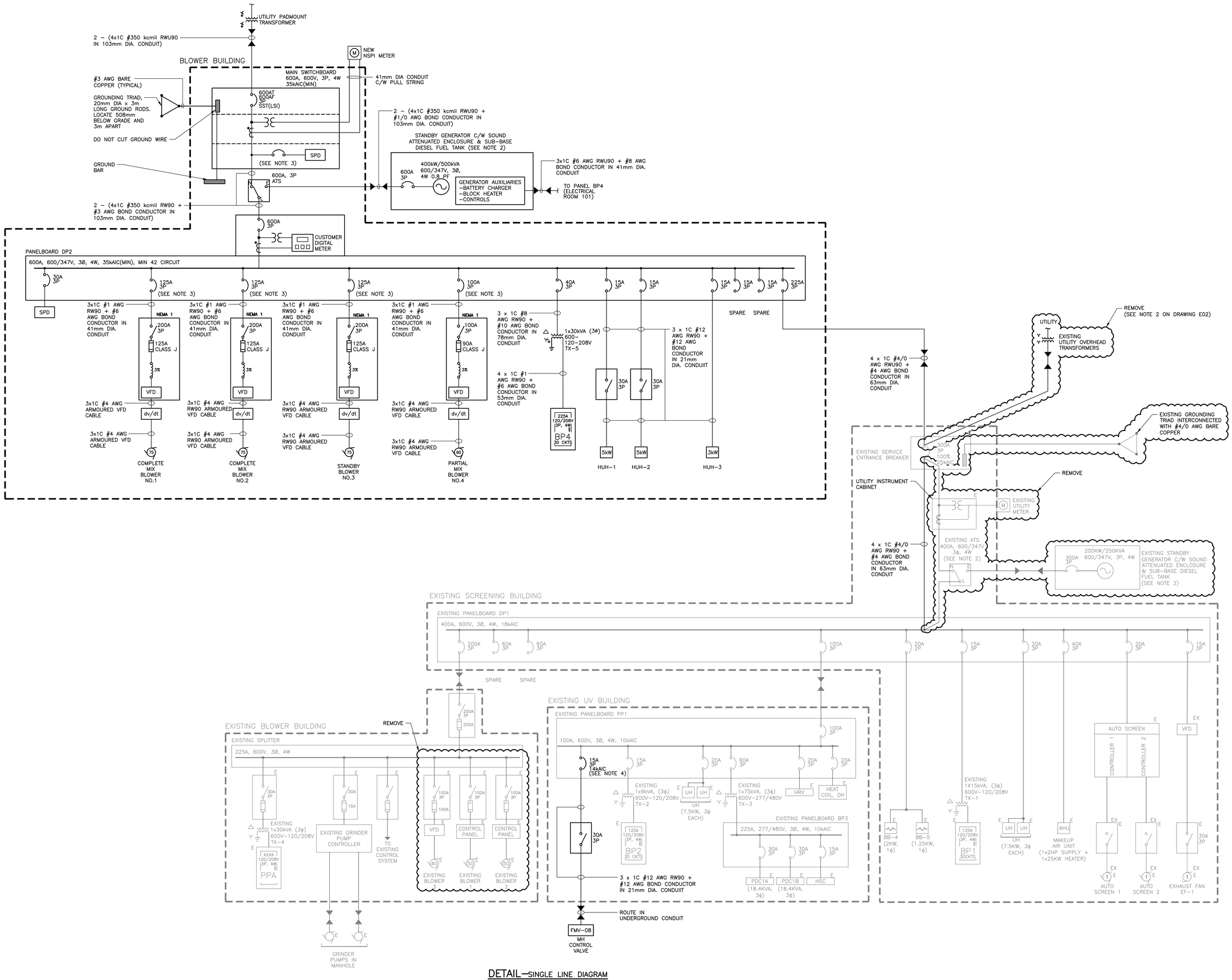
ELECTRICAL

SITE PLAN & SECTIONS

CBCL

PROFESSIONAL ENGINEER – PROVINCE OF NOVA SCOTIA – Mar 11/25 – L. T. Hick – 6663

CBCL No	Contract No
230813.02	WOL005-2025
Date	Scale
APR 2024	AS NOTED
Designed	Drawn
CKS	IGG
Checked	Approved
LH	DAT
Sheet No	
2 of 10	
Drawing No	
E02	



DETAIL—SINGLE LINE DIAGRAM
N.T.S.

NOTES:

1. UNLESS OTHERWISE NOTED, ELECTRICAL EQUIPMENT IS NEW.
2. REMOVE GROUNDING JUMPER BETWEEN THE GENERATOR FRAME AND NEUTRAL.
3. VERIFY BREAKER RATING WITH EQUIPMENT SHOP DRAWINGS.
4. SUPPLY AND INSTALL NEW CIRCUIT BREAKER C/W MOUNTING HARDWARE IN THE EXISTING PANELBOARD.
5. COORDINATE AND SCHEDULE ELECTRICAL SHUTDOWN WORK WITH THE OWNER.

NOT FOR CONSTRUCTION

No	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	

Revision or Issue

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

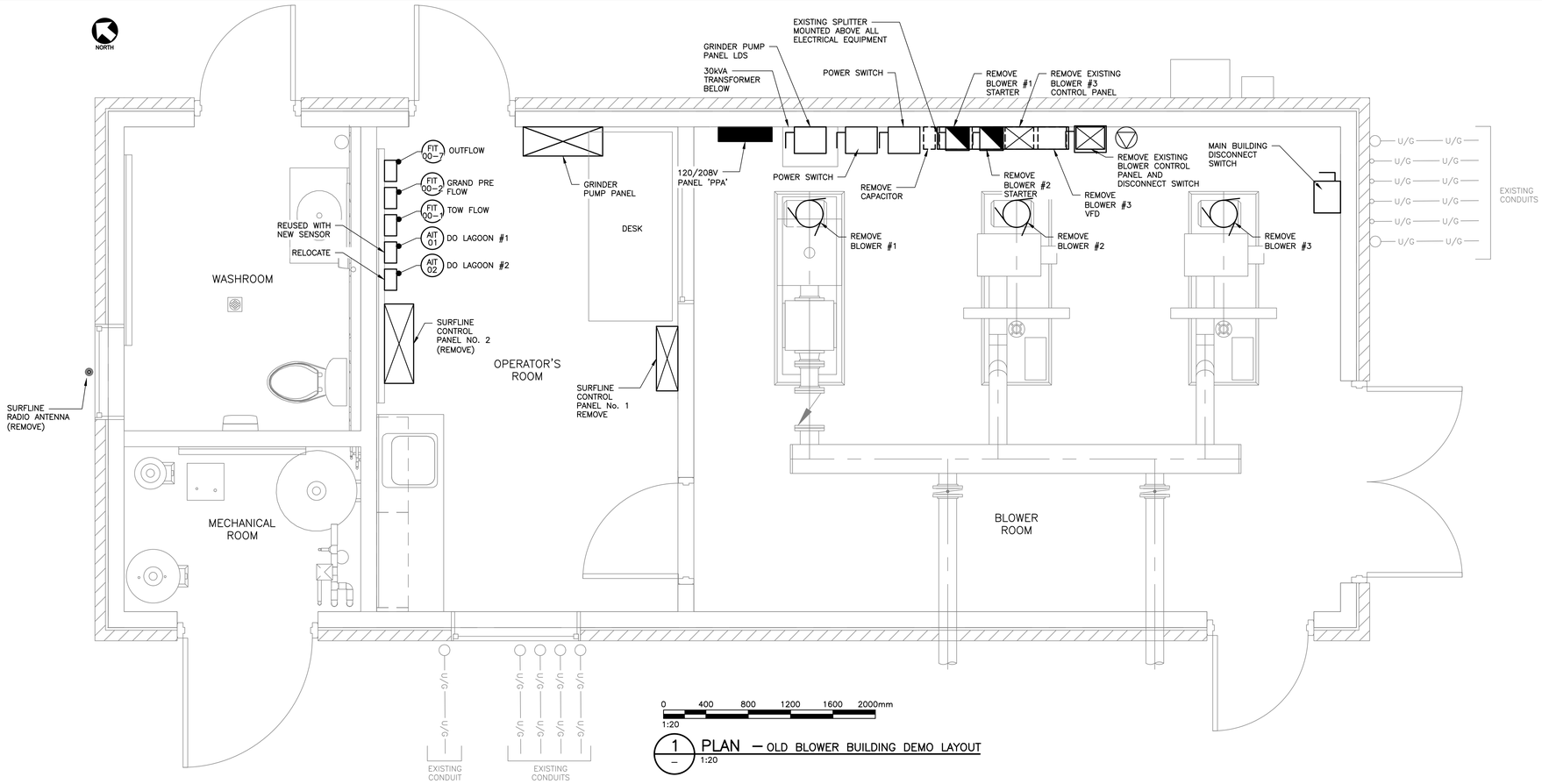
ELECTRICAL

SINGLE LINE DIAGRAM

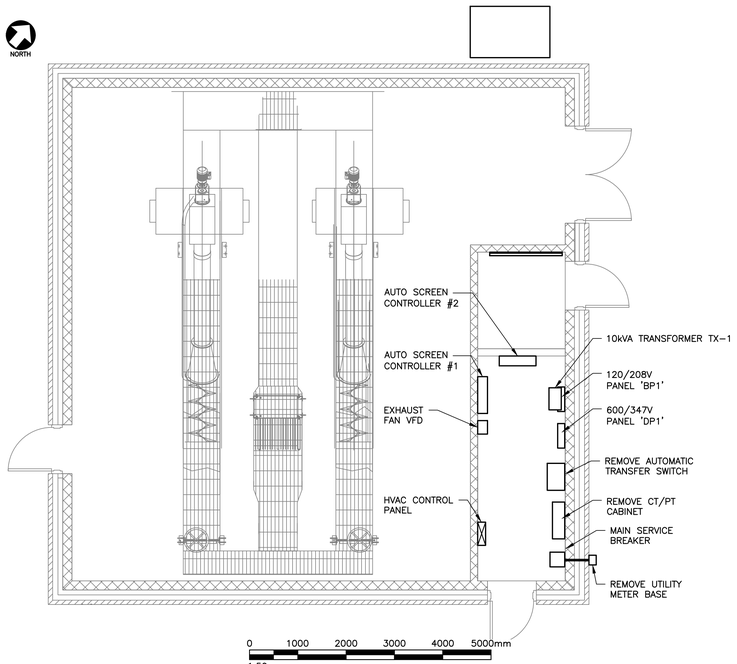
CBCL

CBCL No	230813.02
Contract No	WOL005-2025
Date	APR 2024
Scale	N.T.S.
Designed	CKS
Drawn	IGG
Checked	LH
Approved	DAT
Sheet No	3 of 10
Drawing No	E03

Mar 11/25
6663



1 — PLAN — OLD BLOWER BUILDING DEMO LAYOUT
1:20



2 — PLAN — SCREENING BUILDING DEMO LAYOUT
1:50

Power: 120/208 V 3 ø 4 W — PANEL **PPA** — SYM. IC.: 10000 A
OF CKTS.: 30 — LOCATION ELECTRICAL ROOM — MAINS: 125 A
INCOMING: — MAIN BKR: - A

Remarks	Designation	CKT #	Watts	BKR	PHASE a	PHASE b	PHASE c	BKR	Watts	CKT#	Designation	Remarks
1	ELECTRIC HEAT OFFICE	1		15A	X			15A		2	BLOWER CONTROLS	2,4
		3		2P		X		15A		4	PLUGS BY DESK	1
2	BLOCK HEATER 5A BATTERY CHARGER 5B	5		20/20			X	15A		6	OFFICE LIGHTS	1
1	FLOW METER	7		15A	X			15A		8	BLOWER ROOM LIGHTS	1
1	UTILITY ROOM HEAT	9		15A		X		15A		10	ELECTRIC HEAT BATHROOM	1
1		11		2P			X	2P		12		
1	SCADA PANEL	13		15A	X			15A		14	LIGHT & PLUG WASHROOM	1
1	BMS SCADA & FLOW METERS	15		15A		X		15A		16	DO LAGOON #3 (AIT-01-2)	4
1	EXHAUST FANS 17A/BUILDING AUTOMATION 17B	17		15/15			X	15A		18	REMOTE I/O RACK #1	4
1	SPARE	19		40A	X			15A		20	WATER SOFTENER & OSMOSIS PLUG	1
1	SPARE	21		2P		X		30A		22	SPARE	1
1	WATER HEATER	23		20A			X	2P		24		
1		25		2P	X			20A		26	WELL PUMP	1
	GEN COOLANT HEATER	27		15A		X		3P		28		
		29		2P			X			30		

FEEDER: — SOURCE:

Remarks:
1 EXISTING LOAD TO REMAIN
2 EXISTING BREAKER TO BE MADE SPARE
3 GFCI BREAKER
4 CONNECT TO NEW LOAD INDICATED. REFER TO DRAWING E04.

Phase A Total	0 W	0.0 A
Phase B Total	0 W	0.0 A
Phase C Total	0 W	0.0 A
TOTAL	0 W	0.0 A

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. EQUIPMENT TO BE REMOVED IS INCLUDED IN THE CLOUDED AREA ALL EQUIPMENT IS TO BE DISCONNECTED AND ALL CABLES PULLED BACK TO THE SOURCE AND REMOVED.
3. CONTRACTOR TO COORDINATE DEMOLITION SCOPE WITH NEW CONSTRUCTION TO ENSURE MINIMAL INTERRUPTION OF SERVICES.
4. NOT ALL EXISTING ELECTRICAL EQUIPMENT IS INDICATED.
5. CAP AND SEAL ALL EXISTING UNDERGROUND CONDUITS MADE REDUNDANT BY THIS WORK.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	

Revision or Issue

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

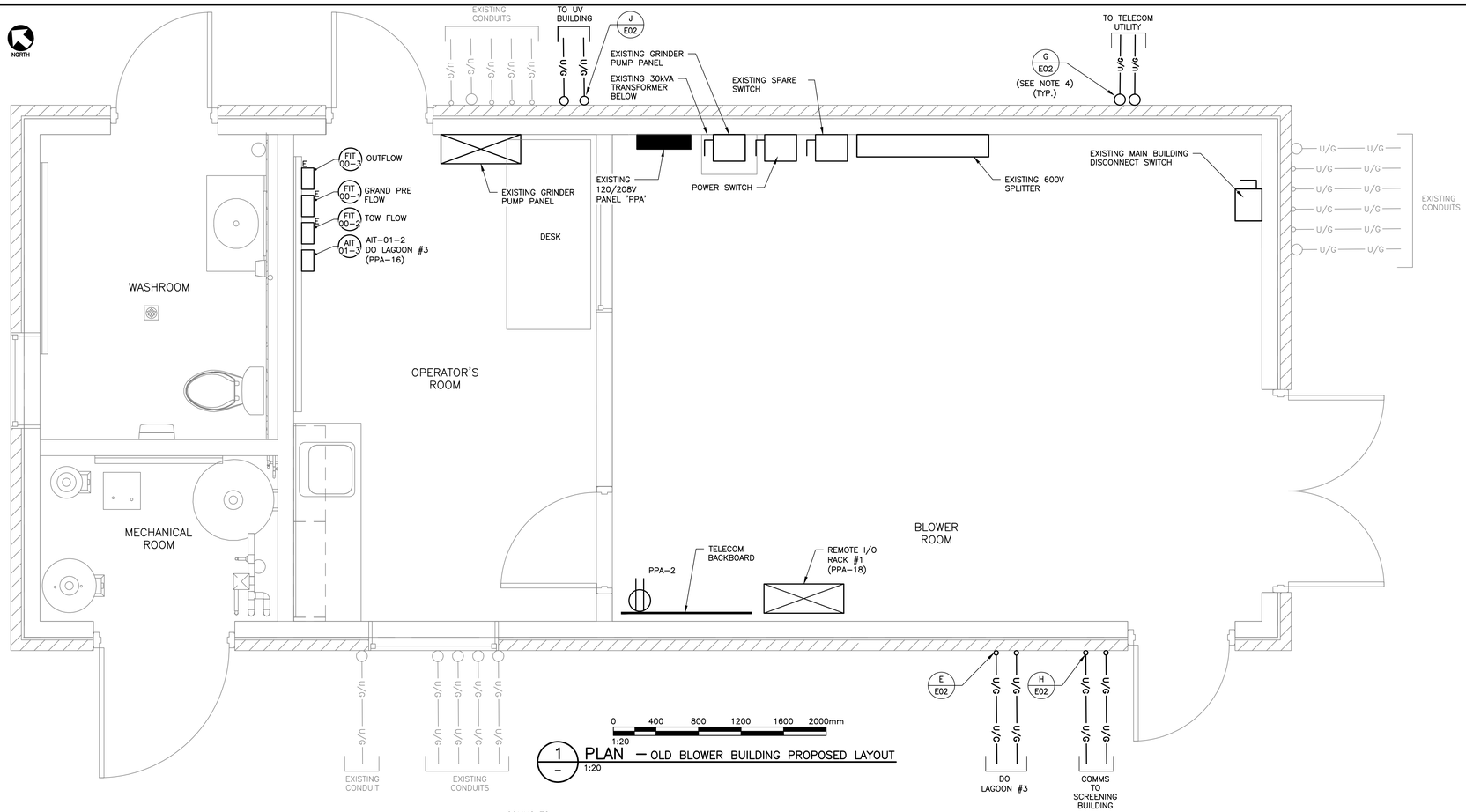
ELECTRICAL

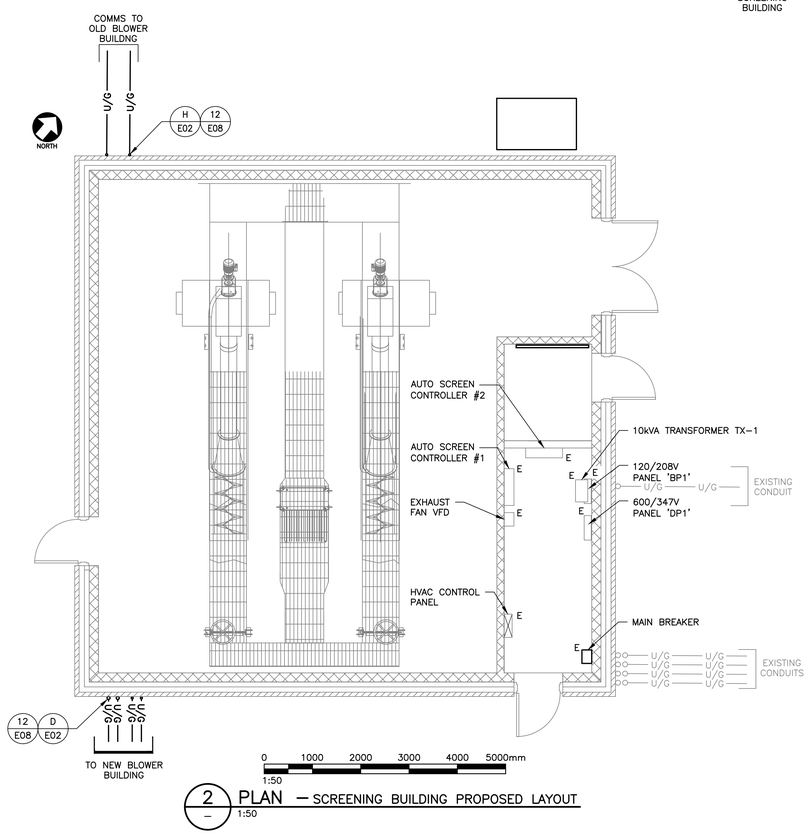
BLOWER BUILDING & SCREENING BUILDING DEMO PLANS

CBCL

PROFESSIONAL ENGINEER — Mar 11/25 — 6663 — PROVINCE OF NOVA SCOTIA

CBCL No	230813.02
Contract No	WOL005-2025
Date	APR 2024
Scale	AS NOTED
Designed	CKS
Drawn	IGG
Checked	LH
Approved	DAT
Sheet No	4 of 10
Drawing No	E04





NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. UNLESS OTHERWISE NOTED ALL ELECTRICAL EQUIPMENT IS NEW.
3. NOT ALL EXISTING ELECTRICAL EQUIPMENT IS INDICATED.
4. SUPPLY AND INSTALL NEW PULLBOX (NEMA 4X) AT EACH EXTERIOR CONDUIT STUB UP LOCATION).

NOT FOR CONSTRUCTION

No	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	

Revision or Issue

TOWN OF WOLFVILLE

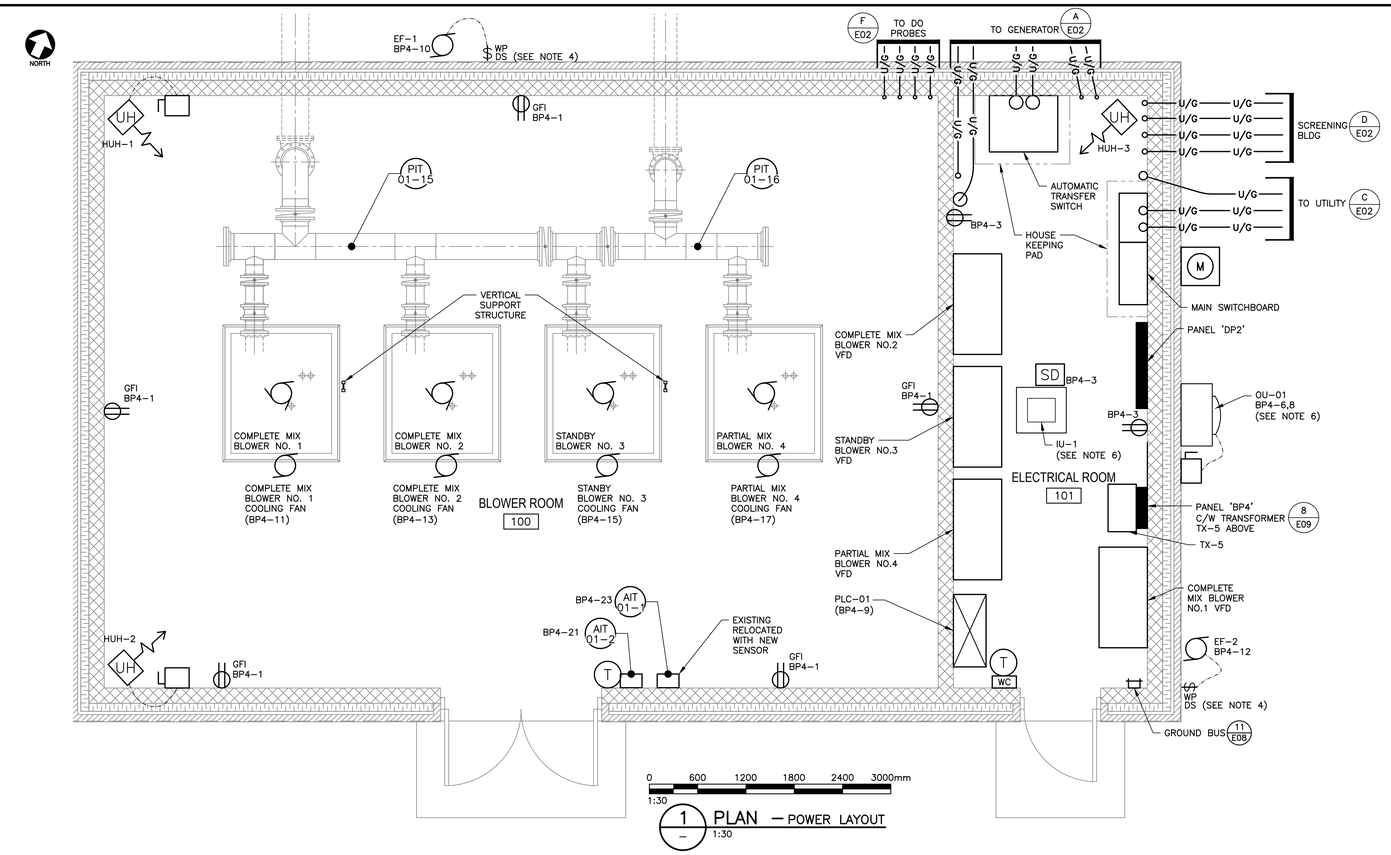
WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

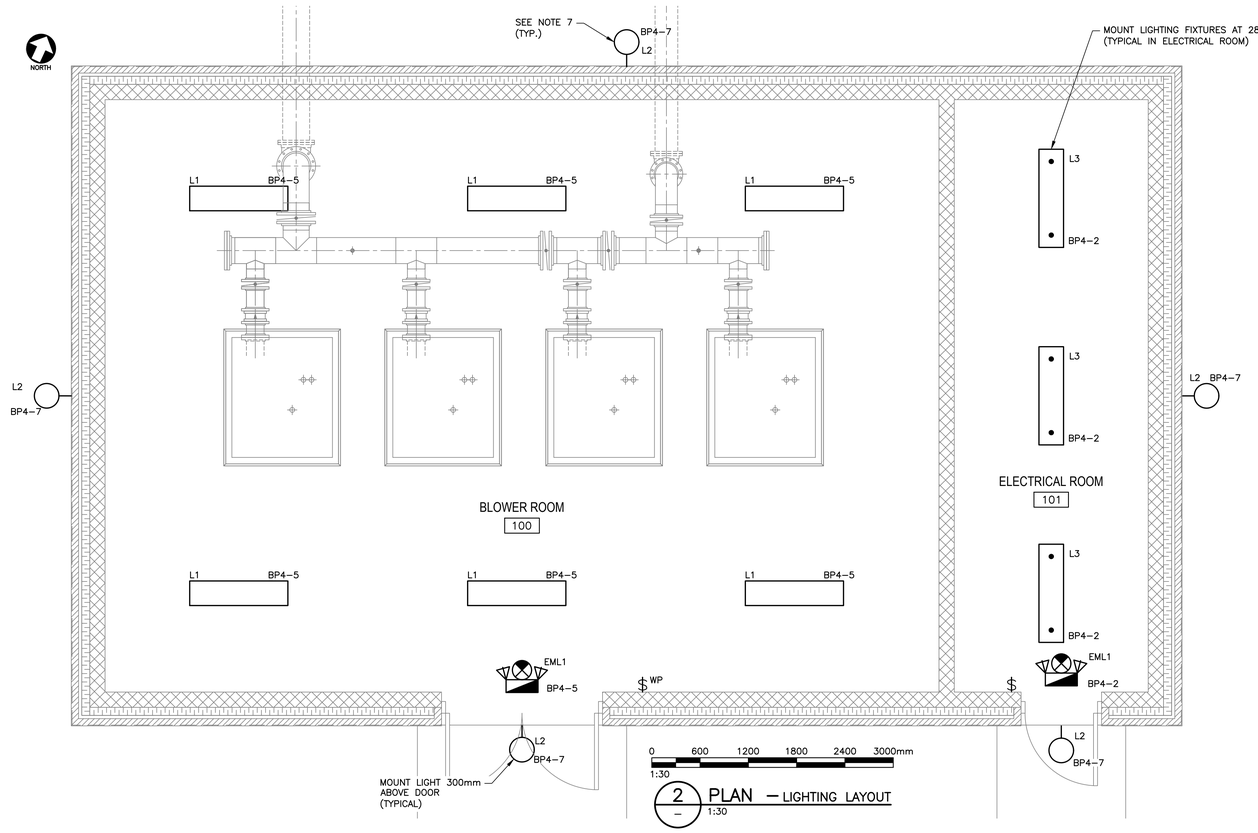
ELECTRICAL

PROPOSED BLOWER BUILDING & SCREENING BUILDING PLANS

CBCL No 230813.02	Contract No WOL005-2025
Date APR 2024	Scale AS NOTED
Designed CKS	Drawn IGG
Checked LH	Approved DAT
Sheet No 5 of 10	
Drawing No **E05**	

REGISTERED PROFESSIONAL ENGINEER Mar 11/25 L. T. HAN 6663 PROVINCE OF NOVA SCOTIA





LIGHTING SCHEDULE

LUMINAIRE TYPE	SUPPLY VOLTAGE	LAMP SOURCE	WATTAGE	LUMENS	GENERAL DESCRIPTION
L1	120VAC	LED	30	4000	1200mm VAPOUR TIGHT, 4000K SUITABLE FOR SURFACE MOUNTING.
L2	120VAC	LED	20	3000	WALL MOUNTED AREA LIGHT (FULL CUT-OFF), C/W INTEGRAL PHOTOCELL.
L3	120VAC	LED	30	4000	1200mm SUSPENDED OPEN INDUSTRIAL FIXTURE.
EML1	120VAC	LED	2 @ 5	60	EMERGENCY LIGHT, STEEL CABINET C/W BATTERY BACKUP (MIN. 30 MINUTES). EXIT SIGN, AUTOMATIC SELF DIAGNOSTIC, 12VDC OUTPUT, MR16 LED LAMPS, INTEGRAL EXIT SIGN.

Power: 120/208 V 3 ø 4 W — PANEL **BP4** — SYM. IC.: 10000 A
OF CKTS.: 30 — LOCATION ELECTRICAL ROOM — MAINS: 225 A
INCOMING: — MAIN BKR: - A

Remarks	Designation	CKT #	Watts	BKR	PHASE a	PHASE b	PHASE c	BKR	Watts	CKT#	Designation	Remarks
	BLOWER ROOM RECEPTACLES	1		15A	X			15A		2	ELECTRICAL ROOM LIGHTING/EMERGENCY EXIT LIGHT	
	ELECTRICAL ROOM RECEPTACLES	3		15A		X		15A		4	SMOKE DETECTORS	1
1	BLOWER ROOM LIGHTING/EMERGENCY EXIT LIGHT	5		15A			X	30A		6	HEAT PUMP (OU-1/IU-1)	
	EXTERIOR LIGHTING	7		15A	X			2P		8		
1	PLC-01	9		20A		X		15A		10	EXHAUST (EF-01)	
	COMPLETE MIX No.1 COOLING FAN	11		15A			X	15A		12	EXHAUST (EF-02)	
	COMPLETE MIX No.2 COOLING FAN	13		15A	X			15A		14	SPARE	
	STANDBY BLOWER No.3 COOLING FAN	15		15A		X		50A		16	GENERATOR AUXILIARY	2,3
	PARTIAL MIX No.4 COOLING FAN	17		15A			X	2P		18		
	SPARE	19		15A	X			20A		20	SPARE	
	LAGOON CELL 2 DO (AIT-01-2)	21		15A		X		15A		22	SPARE	
	LAGOON CELL 1 DO (AIT-01-1)	23		15A			X			24	SPACE	
	SPARE	25		15A	X					26	SPACE	
	SPARE	27		15A		X				28	SPACE	
	SPACE	29					X			30	SPACE	

FEEDER: — SOURCE:

Remarks:
1. LOCKABLE BREAKER
2. SIZE THE BREAKER AS PER MANUFACTURER SHOP DRAWINGS PRIOR TO ORDERING AND INSTALLING.
3. GFCI BREAKER

Phase A Total	0	W	0.0 A
Phase B Total	0	W	0.0 A
Phase C Total	0	W	0.0 A
TOTAL	0	W	0.0 A

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS & SITE CONDITIONS.
3. ALL ELECTRICAL EQUIPMENT IS NEW UNLESS OTHERWISE NOTED.
4. DISCONNECT SWITCH RATING TO BE A MINIMUM AMPERE RATING AND NUMBER OF POLES TO MATCH ITS FEEDER BREAKER.
5. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ELECTRICAL FLOOR MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO TRANSFORMERS, SWITCHBOARDS, VCC'S AND AUTOMATIC TRANSFER SWITCH.
6. COORDINATE WITH MECHANICAL CONTRACTOR FOR INSTALLATION OF THE HEAT PUMP.
7. UNLESS OTHERWISE NOTED, MOUNTING HEIGHTS OF EXTERIOR WALL LIGHT FIXTURES TO BE LOCATED 3 METERS ABOVE FINISHED GRADE.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	

Revision or Issue

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT
PHASE 2 UPGRADES

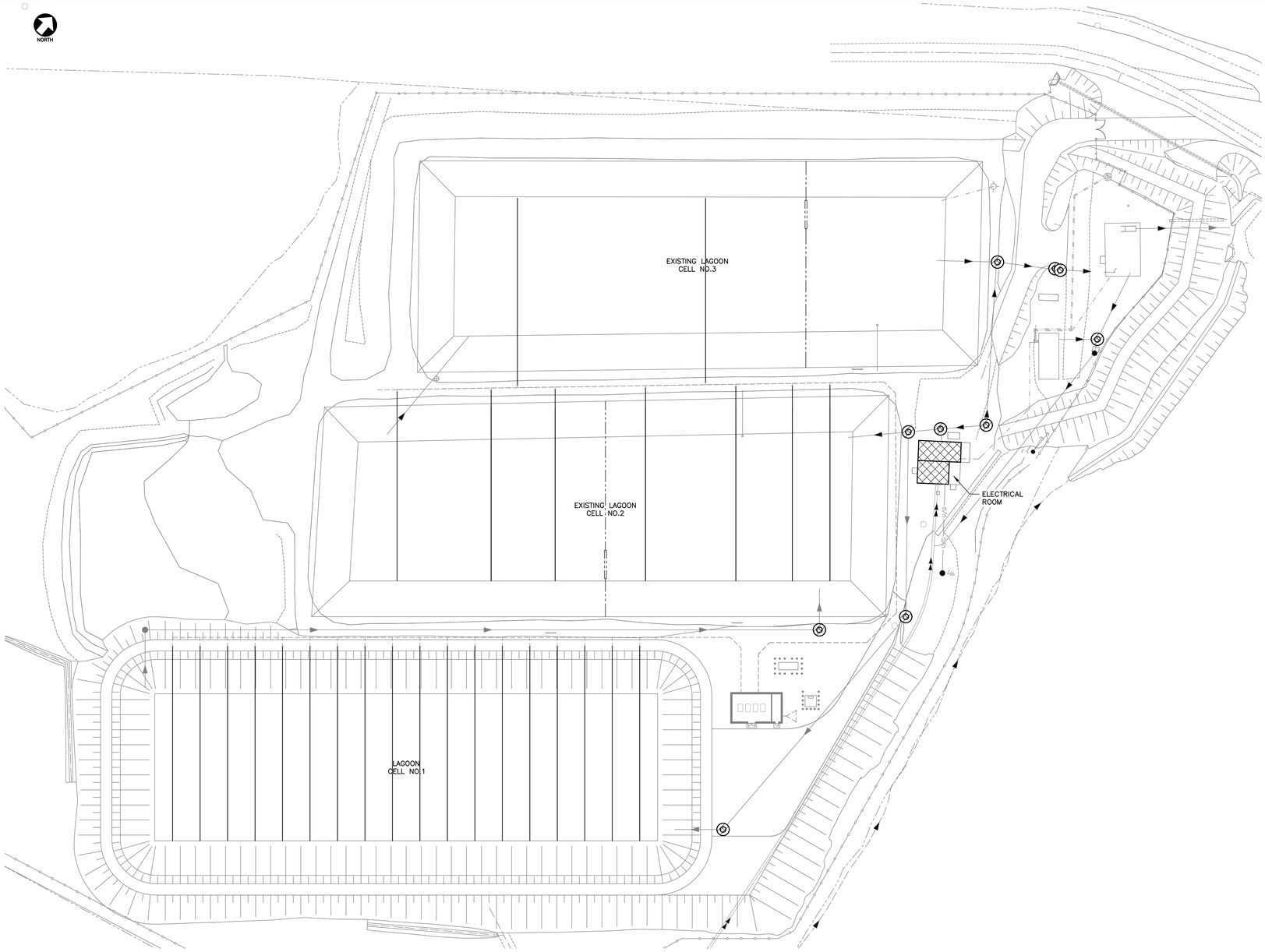
ELECTRICAL

BLOWER BUILDING
LIGHTING AND
POWER PLAN

CBCL

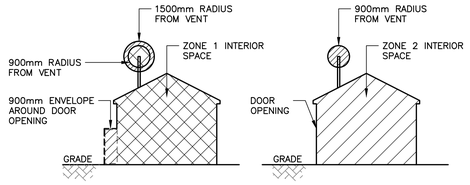
PROFESSIONAL ENGINEERS PROVINCE OF NOVA SCOTIA — Mar 11/25 — L. T. Hirk — 6663

CBCL No	230813.02
Contract No	WOL005-2025
Date	APR 2024
Scale	AS NOTED
Designed	CKS
Drawn	IGG
Checked	LH
Approved	DAT
Sheet No	6 of 10
Drawing No	E06

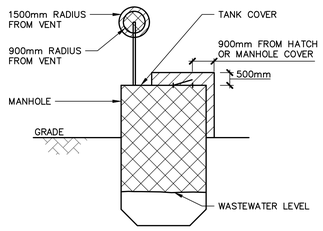


PLAN– HAZARDOUS AREA CLASSIFICATION
1:500

0 10.0 20.0 30.0 40.0 50.0m
1:500



1 — DETAIL– ABOVE GRADE EQUIPMENT HOUSING
N.T.S.



2 — DETAIL– SEWAGE MANHOLE
N.T.S.

NOTES:

1. ALL ELECTRICAL PENETRATIONS FROM A NON–HAZARDOUS AREA TO A HAZARDOUS SHALL BE SEALED AND MADE GAS TIGHT.
2. ELECTRICAL INSTALLATIONS IN HAZARD AREAS SHALL BE IN ACCORDANCE WITH SECTION 18 OF THE CANADIAN ELECTRICAL CODE FOR THE SPECIFIED CLASSIFICATION.
3. ZONE 1 AND ZONE 2 HAZARDOUS AREAS ARE A CATEGORY 2 LOCATION IN ACCORDANCE WITH SECTION 22 OF THE CANADIAN ELECTRICAL CODE AND THE ELECTRICAL INSTALLATION SHALL BE COMPLETED AS PER THE REQUIREMENTS OF A CATEGORY 2 LOCATION.

HAZARDOUS AREA CLASSIFICATION

SYMBOL	DESCRIPTION
	INDICATES ZONE 1 HAZARDOUS AREA GAS GROUP IIA & IIB, T3 TEMP CODE
	INDICATES ZONE 2 HAZARDOUS AREA GAS GROUP IIA & IIB, T3 TEMP CODE
	UNCLASSIFIED

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	

Revision or Issue

wolfville

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT
PHASE 2 UPGRADES

ELECTRICAL

HAZARDOUS CLASSIFICATION
AND DETAILS

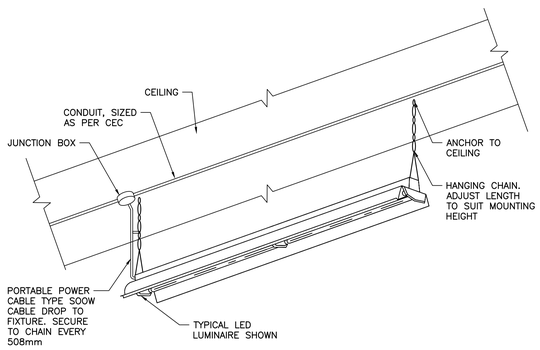
CBCL

REGISTERED PROFESSIONAL ENGINEER
Mar 11/25
6663
PROVINCE OF NOVA SCOTIA

CBCL No	230813.02
Contract No	WOL005-2025
Date	APR 2024
Scale	AS NOTED
Designed	CKS
Drawn	IGG
Checked	LH
Approved	DAT
Sheet No	7 of 10
Drawing No	E07

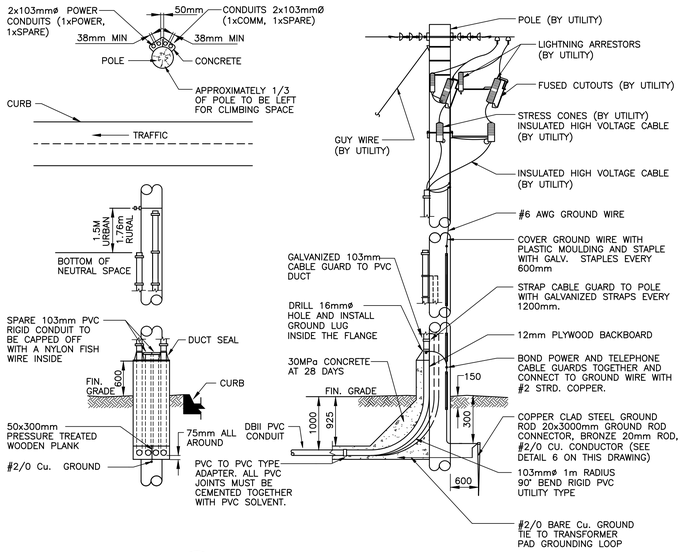
DRAWING NAME: \\CBCL.LAN\CBCL\HALIFAX\DATA\PROJECTS\2023\230813.00 TOW WWTP PHASE 2 UPGRADES\44 CAD\05 ELEC\230813.00-E07.DWG LAYOUT NAME: HAZARDOUS CLASSIFICATION AND DETAILS PLOT DATE: Tuesday, March 11, 2025 3:36:13 PM CAD OPERATOR: IGLIFONEA

CBCL-762x1066 TITLE SHEET (ARCH E)

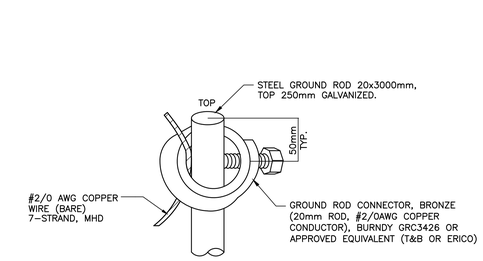


1 DETAIL– INSTALLATION OF TYPICAL LINEAR SUSPENDED LUMINAIRE
N.T.S

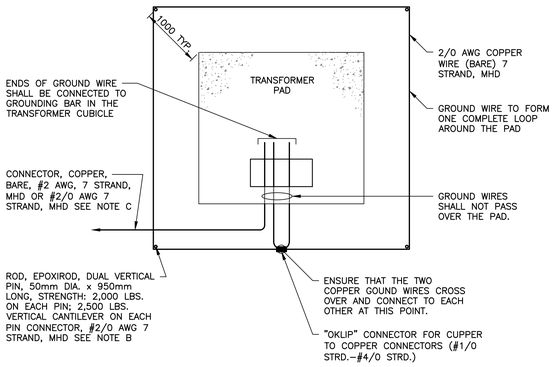
2 DETAIL– NOT USED
N.T.S

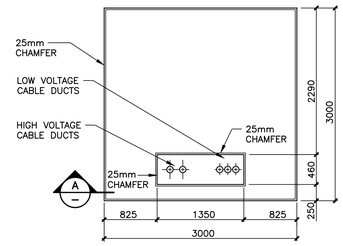


3 DETAIL–PRIMARY POWER TERMINAL POLE
N.T.S

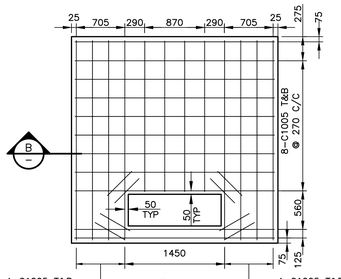


4 DETAIL–UTILITY GROUND ROD CONNECTION
N.T.S





PLAN VIEW



PLAN

SECTION A

SECTION "B"

REBAR SCHEDULE

C1005–#10M BAR x 2900mm LG – 38 REQ'D
C1007–#10M BAR x 2190mm LG – 8 REQ'D

NOTE:

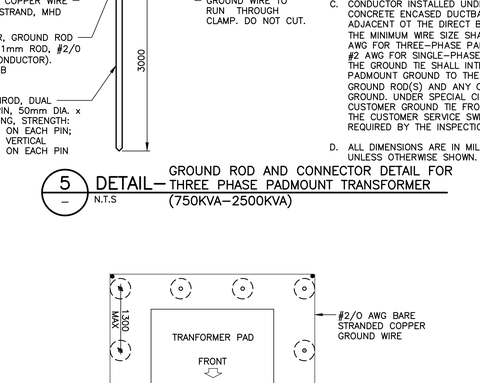
A. REINFORCING 400MPa YIELD.

8 DETAIL–TRANSFORMER CONCRETE PAD REINFORCEMENT (750KVA – 2500KVA)
N.T.S

NOTES:

A. CONCRETE – 30 MPa @ 28 DAYS
B. REFER TO DETAIL 8 FOR REINFORCING DETAILS.
C. REFER TO DETAIL 5 FOR GROUNDING DETAILS.
D. LEAVE A MINIMUM OF 2.0M OF SECONDARY CABLE ABOVE TOP OF PAD
E. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

7 DETAIL–CONCRETE PAD FOR 3ø PADMOUNT TRANSFORMER 750KVA – 2500KVA
N.T.S



NOTES:

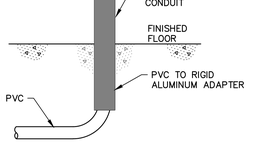
A. GROUNDING SHALL BE IN ACCORDANCE WITH SECTION 36 OF THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE, PART ONE.

B. REFER TO DWG No. 10U–ED–11M (NSPI) FOR GROUND ROD CONNECTION DETAILS. THE GROUND TIE SHALL BE A BARE COPPER

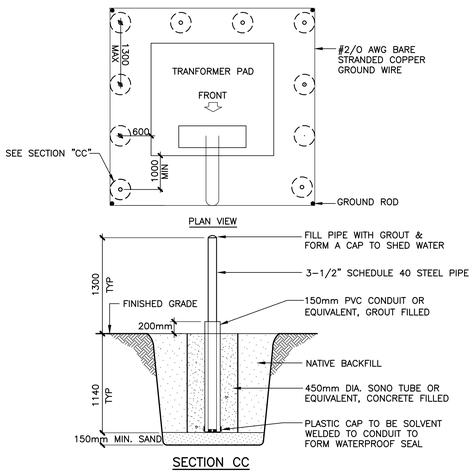
C. CONDUCTOR INSTALLED UNDERNEATH THE CONCRETE ENCASED DUCTBANK OR ADJACENT OT THE DIRECT BURIED CONDUITS. THE MINIMUM WIRE SIZE SHALL BE #2/0 AWG FOR THREE–PHASE PADMOUNTS AND #2 AWG FOR SINGLE–PHASE PADMOUNTS. THE GROUND TIE SHALL INTERCONNECT THE PADMOUNT GROUND TO THE RISER POLE GROUND ROD(S) AND ANY OTHER PADMOUNT GROUND. UNDER SPECIAL CIRCUMSTANCES A CUSTOMER GROUND TIE FROM THE PAD TO THE CUSTOMER SERVICE SWITCH MAY BE REQUIRED BY THE INSPECTION AUTHORITY.

D. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

5 DETAIL– GROUND ROD AND CONNECTOR DETAIL FOR THREE PHASE PADMOUNT TRANSFORMER (750KVA–2500KVA)
N.T.S

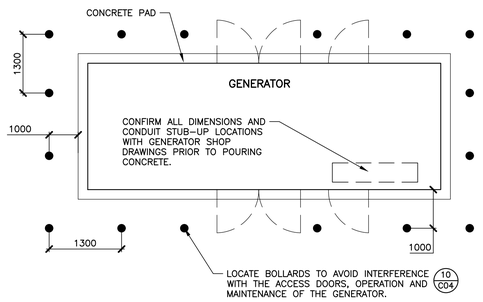


6 DETAIL– TYPICAL RIGID PVC CONDUIT STUB UP
N.T.S.

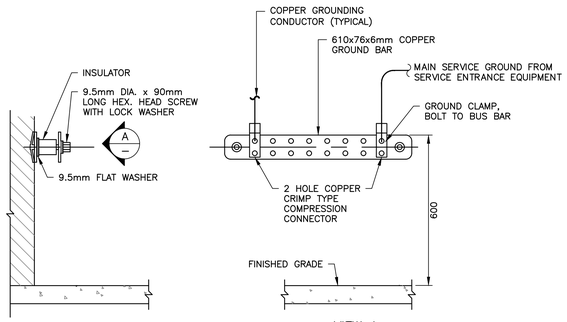


SECTION CC

9 DETAIL–TRASFORMER PAD VEHICULAR PROTECTION
N.T.S

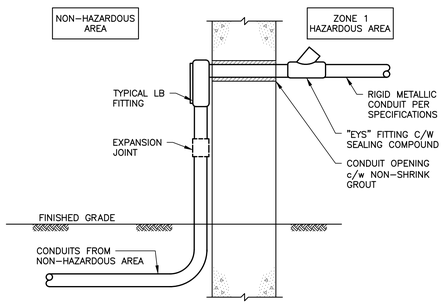


10 DETAIL–GENERATOR PROTECTION
N.T.S



VIEW A

11 DETAIL– WALL MOUNTED GROUND BUS CONNECTION
N.T.S.



12 DETAIL– CONDUIT THROUGH WALL–HAZARDOUS TO NON–HAZARDOUS AREA (TYPICAL)
N.T.S.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. VERIFY NSPI PADMOUNT TRANSFORMER RATING WITH NOVA SCOTIA POWER PRIOR TO INSTALLATION. ADVISE IF LESS THAN 750KVA.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	EB

Revision or Issue

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

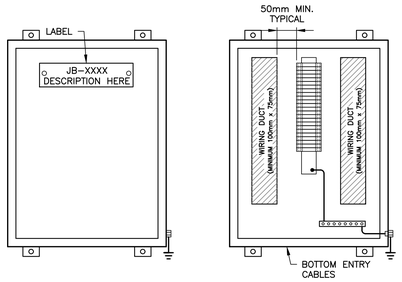
ELECTRICAL

DETAILS SHEET 1 OF 2

CBCL

NOVA SCOTIA PROFESSIONAL ENGINEERS – Mar 11/25 – 6663

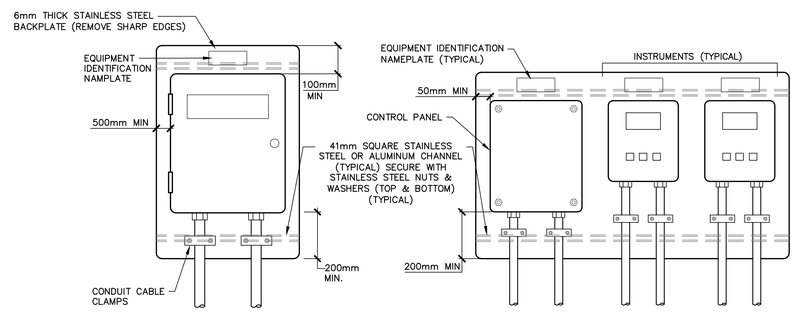
CBCL No	230813.02
Contract No	WOL005-2025
Date	APR 2024
Scale	AS NOTED
Designed	CKS
Drawn	IGG
Checked	LH
Approved	DAT
Sheet No	8 of 10
Drawing No	E08



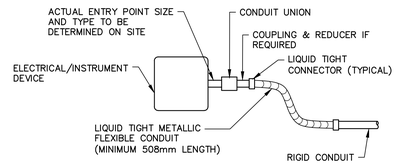
DETAIL NOTES:

1. THIS LAYOUT DRAWING APPLIES TO INSTRUMENTATION TERMINATION JUNCTION BOXES. THE ABOVE LAYOUT IS TO BE USED AS A GUIDE ONLY. REFER TO THE INSTRUMENTATION CABLING DRAWINGS TO DETERMINE THE NUMBER OF TERMINAL BLOCKS REQUIRED IN EACH FIELD JUNCTION BOX.
2. REFER TO SPECIFICATION SECTION XXXXXX FOR MATERIAL REQUIREMENTS.

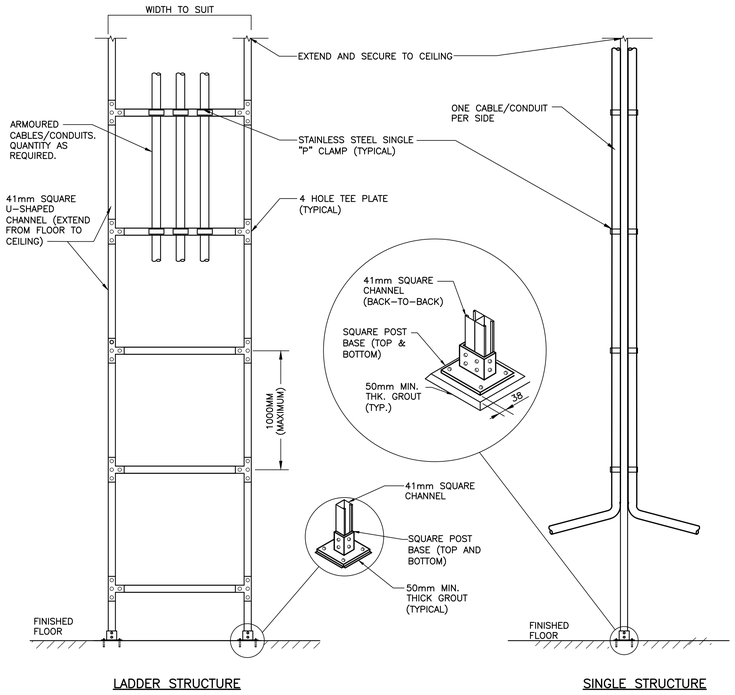
1 DETAIL– TYPICAL INSTRUMENTATION TERMINATION JUNCTION BOX LAYOUT
N.T.S.



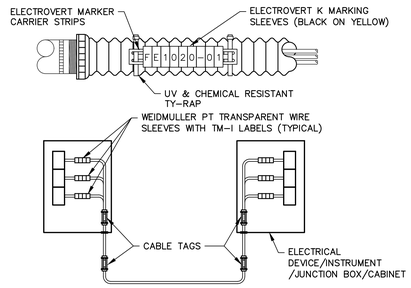
2 DETAIL– CONTROL PANEL/MAJOR JUNCTION BOX/INSTRUMENTATION MOUNTING
N.T.S



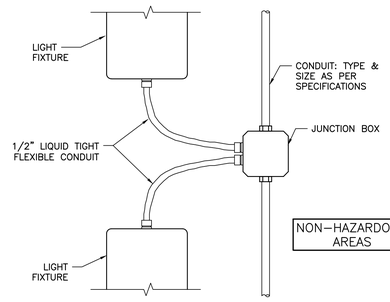
3 DETAIL– EQUIPMENT CONDUIT ENTRY (NON–HAZARDOUS AREAS)
N.T.S



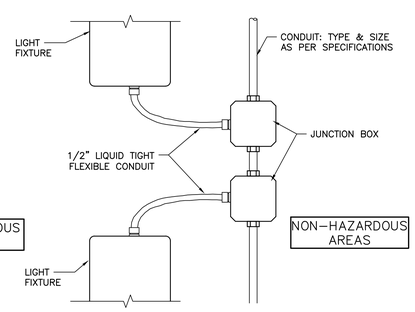
4 DETAIL– VERTICAL CONDUIT/CABLE SUPPORT STRUCTURE
N.T.S



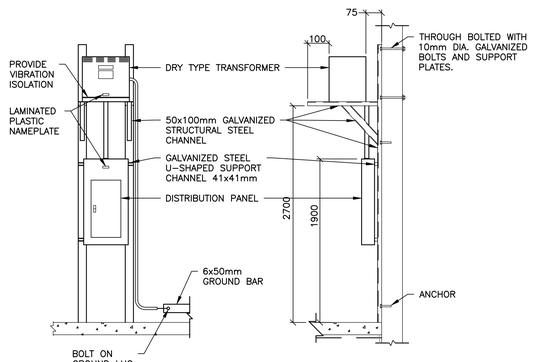
5 DETAIL– POWER CABLE AND CONDUCTOR IDENTIFICATION
N.T.S



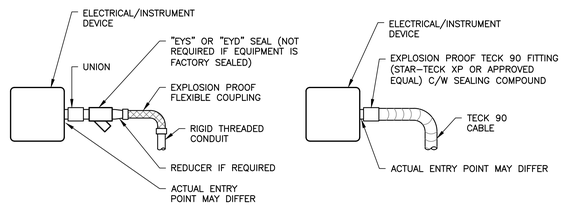
6 DETAIL– ALTERNATE CONNECTION OF LIGHT FIXTURES VIEWED FROM BELOW
N.T.S



7 DETAIL– TYPICAL CONNECTION OF TWO LIGHT FIXTURES VIEWED FROM BELOW
N.T.S



8 DETAIL–TRANFORMER AND PANEL MOUNTING
N.T.S.



9 DETAIL– EQUIPMENT CONDUIT ENTRY (ZONE 1/2 HAZARDOUS AREAS)
N.T.S.
TYP FOR: GENERAL

NOT FOR CONSTRUCTION

No	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	

Revision or Issue

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT
PHASE 2 UPGRADES

ELECTRICAL

DETAILS
SHEET 2 OF 2

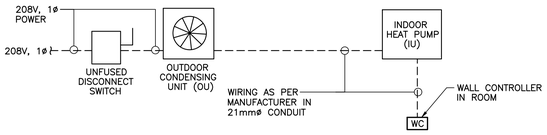
CBCL

CBCL No	Contract No
230813.02	WO1005-2025
Date	Scale
APR 2024	AS NOTED
Designed	Drawn
CKS	IGG
Checked	Approved
LH	DAT
Sheet No	
9 of 10	
Drawing No	
E09	

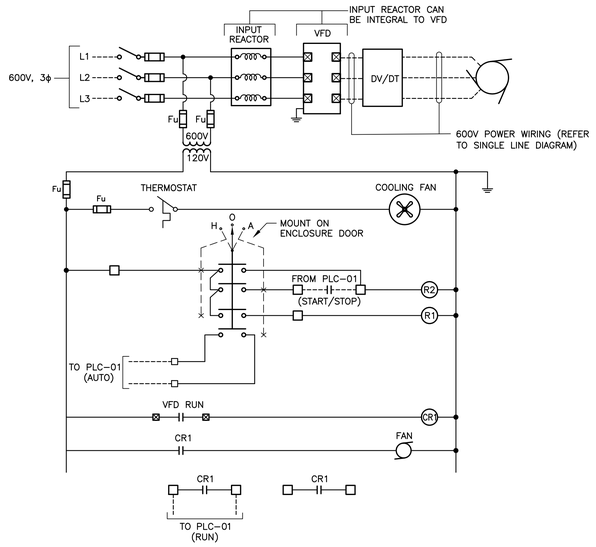
REGISTERED PROFESSIONAL ENGINEER
Mar 11/25
L. T. Hoe
6663
PROVINCE OF NOVA SCOTIA

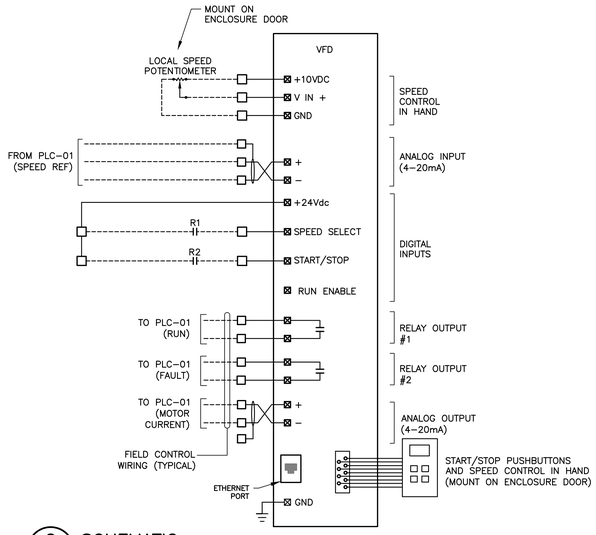
HEAT PUMP CONTROL NOTES:

1. PROVIDE FIELD WIRING AS REQUIRED.
2. PROVIDE NECESSARY HARDWARE AS PER MANUFACTURER TO PROVIDE A FULL FUNCTIONAL SYSTEM.



1 — BLOCK DIAGRAM — INDOOR/OUTDOOR HEAT PUMP POWER/CONTROLS CONNECTION (TYPICAL)
N.T.S





2 — SCHEMATIC — TYPICAL BLOWER VFD SCHEMATICS (SEE NOTES 2 & 3)
N.T.S

NOTES:

1. ALL EQUIPMENT IS NEW UNLESS OTHERWISE NOTED.
2. FIELD CONTROL WIRING IS IDENTIFIED ON THE INSTRUMENTATION AND CONTROLS CABLING DIAGRAM.
3. CONTROL SCHEMATIC IS TYPICAL AND IS SHOWN FOR CONTROL PHILOSOPHY ONLY. SUBMIT SHOP DRAWINGS INDICATING WIRING CONNECTIONS SPECIFIC TO THE MANUFACTURER'S VFD.
4. EQUIPMENT SPECIFIED IN DIVISION 23.

NOT FOR CONSTRUCTION

No	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	

Revision or Issue

wolfville

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

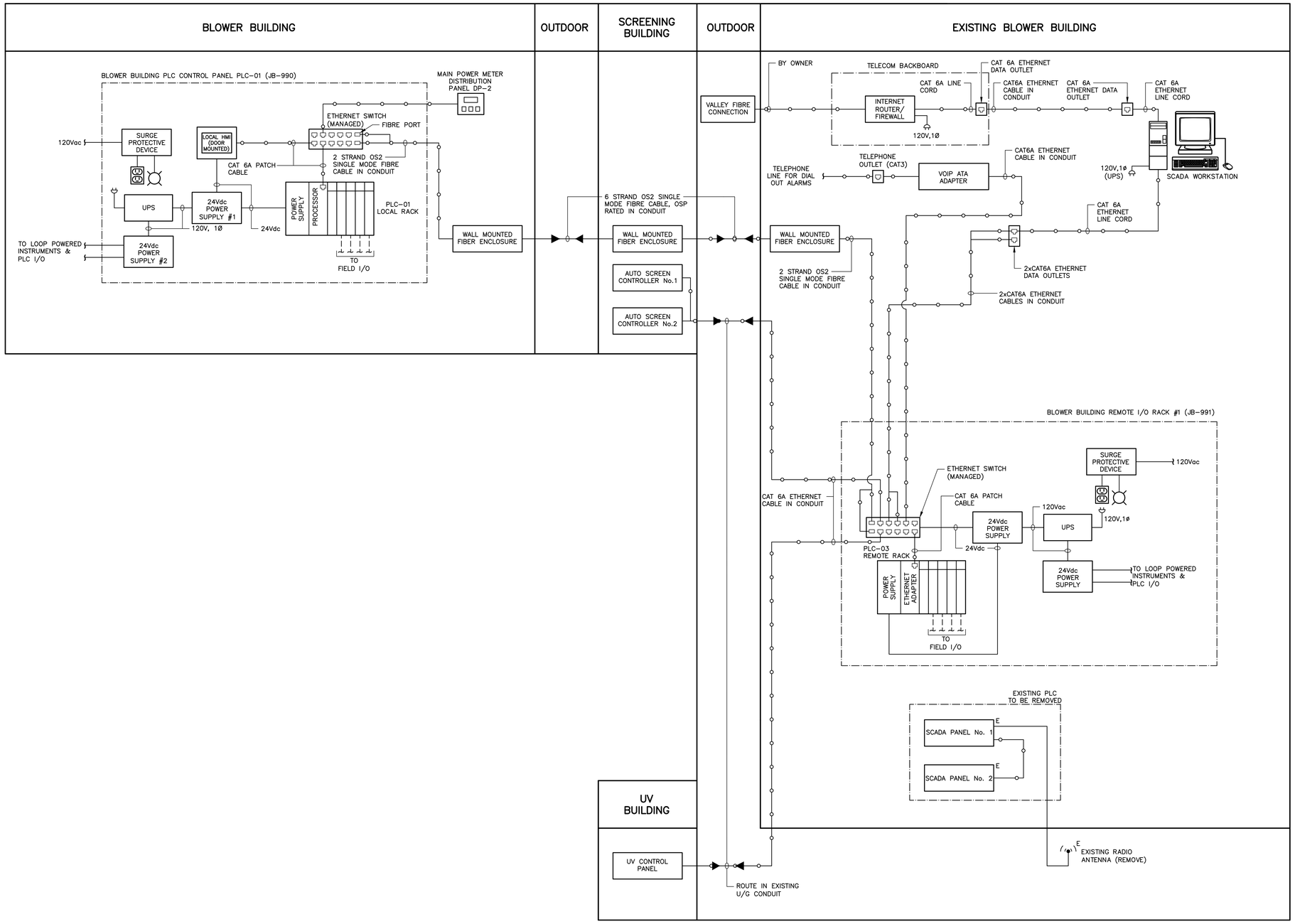
ELECTRICAL

SCHEMATICS AND BLOCK DIAGRAM

CBCL

REGISTERED PROFESSIONAL ENGINEER — L. T. HUA — Mar 11/25 — 6663 — PROVINCE OF NOVA SCOTIA

CBCL No 230813.02	Contract No WOL005-2025
Date APR 2024	Scale AS NOTED
Designed CKS	Drawn IGG
Checked LH	Approved DAT
Sheet No 10 of 10	
Drawing No **E10**	



1 SCHEMATIC— PLC CONTROL SYSTEM
N.T.S.

NOTES:

1. UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT SHOWN IS NEW.
2. REFER TO DRAWING E01 FOR LEGEND.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	

Revision or Issue

wolfville

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

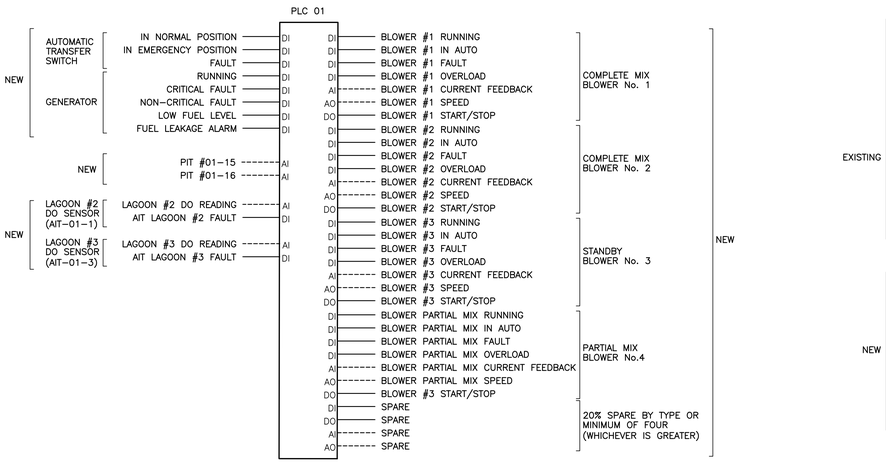
INSTRUMENTS

CONTROL SYSTEM BLOCK DIAGRAM

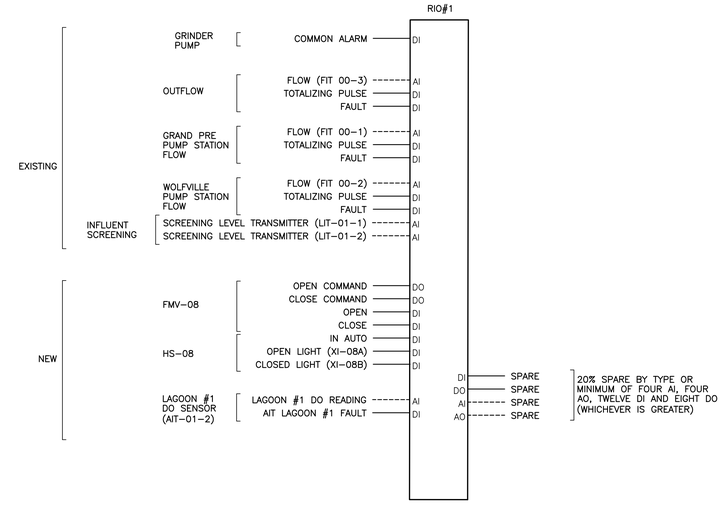
CBCL

CBCL No	Contract No
230813.02	WOL005-2025
Date	Scale
APR 2024	N.T.S
Designed	Drawn
CKS	IGG
Checked	Approved
LH	DAT
Sheet No	
1 of 3	
Drawing No	
J01	

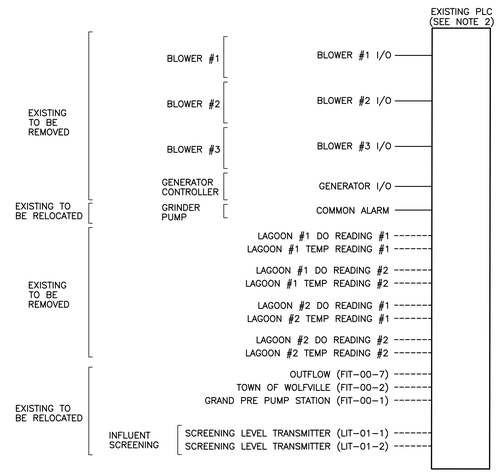
REGISTERED PROFESSIONAL ENGINEER — PROVINCE OF NOVA SCOTIA — Mar 11/25 — 6663



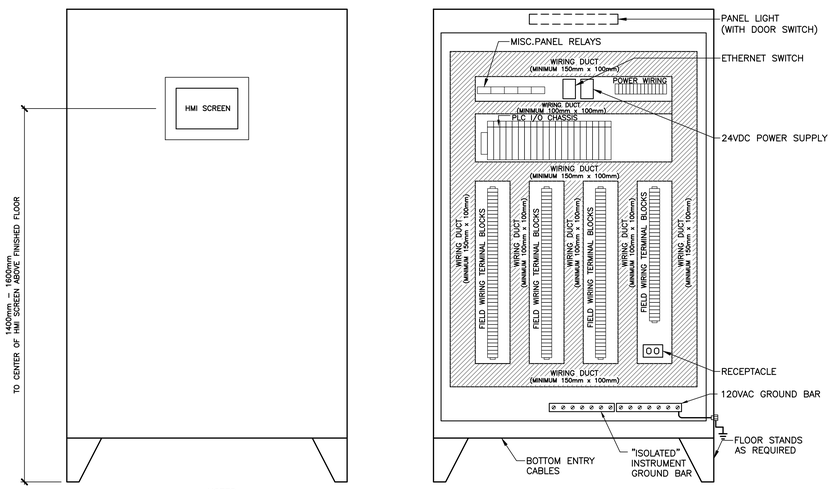
1 — I/O LIST — PLC PANEL (PLC-01)
N.T.S.



2 — I/O LIST — REMOTE I/O RACK #1
N.T.S.



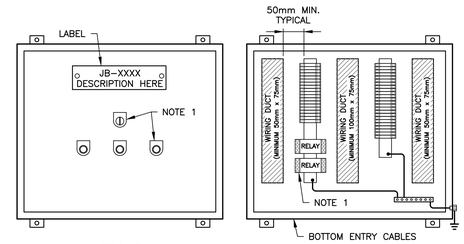
3 — I/O LIST — SURFLINE CONTROL PANELS NO.1 & 2 (SEE NOTE 5)
N.T.S.



NOTES:

1. THIS LAYOUT DRAWING APPLIES TO FLOOR MOUNTED (OR WALL MOUNTED) PLC/RTU CONTROL PANELS. THE ABOVE LAYOUT IS TO BE USED AS A GUIDE ONLY. REFER TO THE CONTROL SYSTEM BLOCK DIAGRAM, CONTROL SCHEMATICS, PLC/RTU I/O LISTS, ETC., TO DETERMINE THE NUMBER OF I/O CARDS, RELAYS, TERMINAL BLOCKS, ETC., REQUIRED FOR EACH PANEL.
2. REFER TO SPECIFICATION SECTION 40 95 00 FOR MATERIAL REQUIREMENTS.

4 — DETAIL — TYPICAL PLC/RIO CONTROL PANEL INTERNAL LAYOUT (TYPICAL)
N.T.S.



NOTES:

1. THIS LAYOUT DRAWING APPLIES TO RELAY CONTROL PANELS. THE ABOVE LAYOUT IS TO BE USED AS A GUIDE ONLY. REFER TO THE INSTRUMENTATION CABLING DIAGRAMS, AND CONTROL SCHEMATICS TO DETERMINE THE NUMBER OF PUSHBUTTONS, SWITCHES, INDICATING LIGHTS, RELAYS, TERMINAL BLOCKS, ETC., REQUIRED FOR EACH CONTROL PANEL.
2. REFER TO SPECIFICATION SECTION 40 95 00 FOR MATERIAL REQUIREMENTS.

5 — DETAIL — TYPICAL RELAY CONTROL PANEL LAYOUT
N.T.S.

NOTES:

1. UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT SHOWN IS NEW.
2. NOT ALL I/O ON EXISTING PLC-01 IS SHOWN. CONTRACTOR TO COORDINATE EXISTING REMOVALS WITH OWNER.
3. REFER TO TELECOMMUNICATIONS BLOCK DIAGRAM ON DRAWING E10.
4. REFER TO DRAWING E01 FOR LEGEND.
5. VERIFY EXISTING I/O PRIOR TO REMOVAL AND FORWARD INFORMATION TO OWNER AND CONSULTANT.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	

Revision or Issue

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

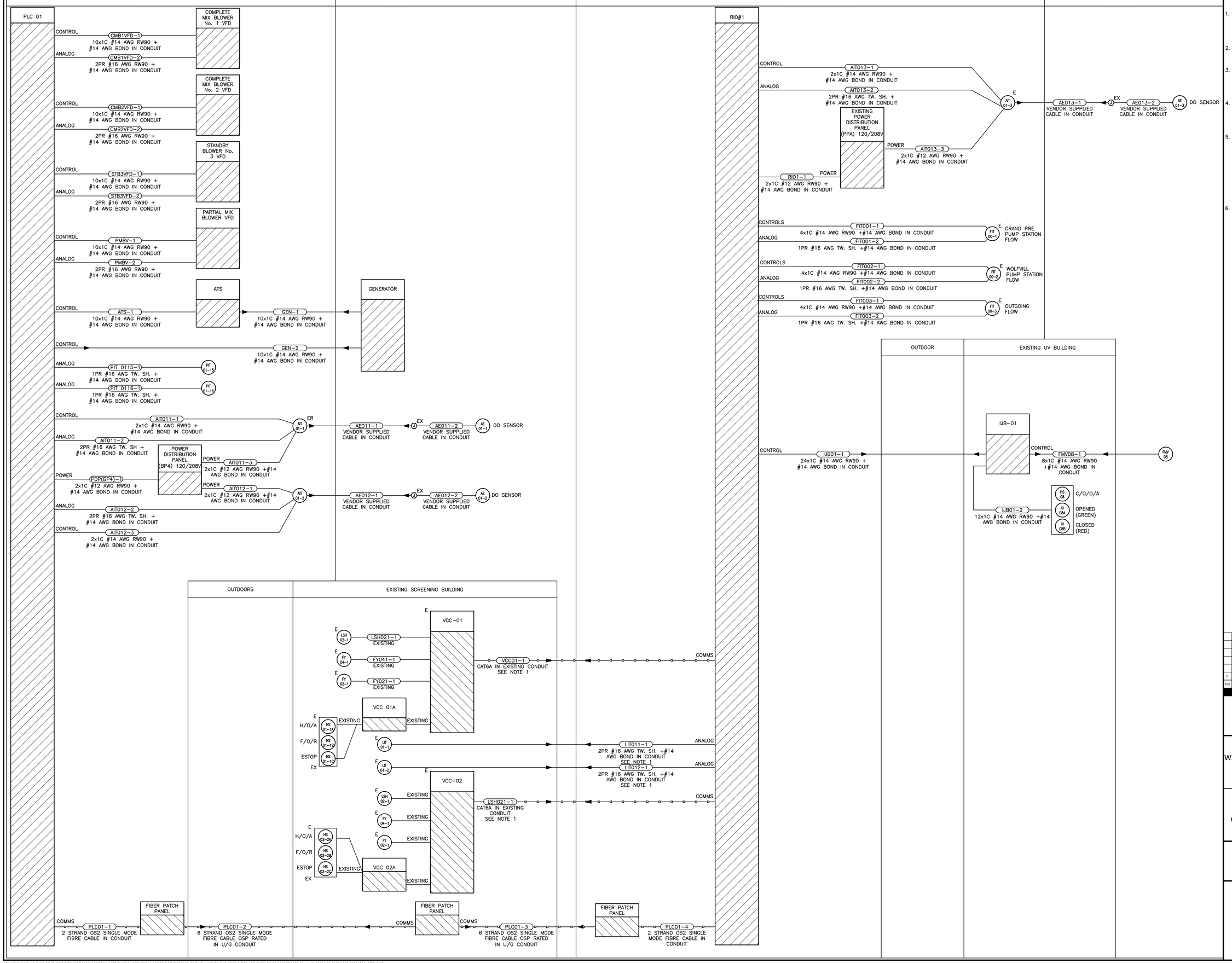
INSTRUMENTS

SCHEMATIC, IO LISTS & PLC-RTU LAYOUT

CBCL

NOVA SCOTIA ASSOCIATION OF PROFESSIONAL ENGINEERS — Mar 11/25 — L. T. Hirtle — 6663 — REGISTERED PROFESSIONAL ENGINEER — PROVINCE OF NOVA SCOTIA

CBCL No 230813.02	Contract No WOL005-2025
Date APR 2024	Scale N.T.S.
Designed CKS	Drawn IGG
Checked LH	Approved DAT
Sheet No 2 of 3	
Drawing No J02	



NOTES:

1. CONTRACTOR TO SUPPLY AND INSTALL NEW CABLE TO REPLACE EXISTING AND RUN IN EXISTING CONDUITS. EXTEND CONDUITS TO NEW REMOTE I/O RACK#1.
2. UNLESS NOTED OTHERWISE, ALL ELECTRICAL CONTROLS, AND INSTRUMENTATION EQUIPMENT IS NEW.
3. ALL FIELD PULL BOXES, JUNCTION BOXES AND CONTROL PANELS SHOWN SHALL BE PROVIDED BY THE CONTRACTOR, UNLESS INDICATED OTHERWISE.
4. CONTRACTOR TO USE THESE CABLING DRAWINGS IN CONJUNCTION WITH THE SITE ELECTRICAL EQUIPMENT LAYOUT DRAWINGS TO DETERMINE CABLE LENGTHS.
5. ALL CABLES/CONDUITS SHOWN SHALL BE PROVIDED BY THE CONTRACTOR UNLESS INDICATED OTHERWISE. REFER TO SPECIFICATION NO. 40 91 00 FOR PROCESS INSTRUMENTATION CABLING SPECIFICATIONS. FOR CONDUIT IN HAZARDOUS AREAS, PROVIDE SEALS IN ACCORDANCE WITH SECTION 18 OF THE CEC. PROVIDE BOND CONDUCTOR IN ALL CONDUIT, SIZED IN ACCORDANCE WITH THE CEC. SIZE CONDUITS IN ACCORDANCE TO CEC.
6. REFER TO E01 FOR ELECTRICAL LEGEND.

NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	MAR 11/25	

Revision or Issue

TOWN OF WOLFVILLE

WASTEWATER TREATMENT PLANT PHASE 2 UPGRADES

INSTRUMENTS

INSTRUMENTATION & CONTROLS CABLING DIAGRAM

CBCL

CBCL No 230813.02	Contract No WOL005-2025
Date APR 2024	Scale AS NOTED
Designed CKS	Drawn IGG
Checked LH	Approved DAT
Sheet No 3 of 3	
Drawing No J03	

Mar 11/25 — L. T. HAN — 6663

DRAWING NAME: Y:\HALIFAX\DATA\PROJECTS\2023\230813.00 TOW WWTP PHASE 2 UPGRADES\44 CAD\05 ELEC\230813.00-J03.DWG LAYOUT NAME: SCHEMATICS AND BLOCK DIAGRAM PLOT DATE: March 12, 2025 1:35:00 PM CAD OPERATOR: CSTEWART

CBCL-762x1066 TITLE SHEET (ARCH E)