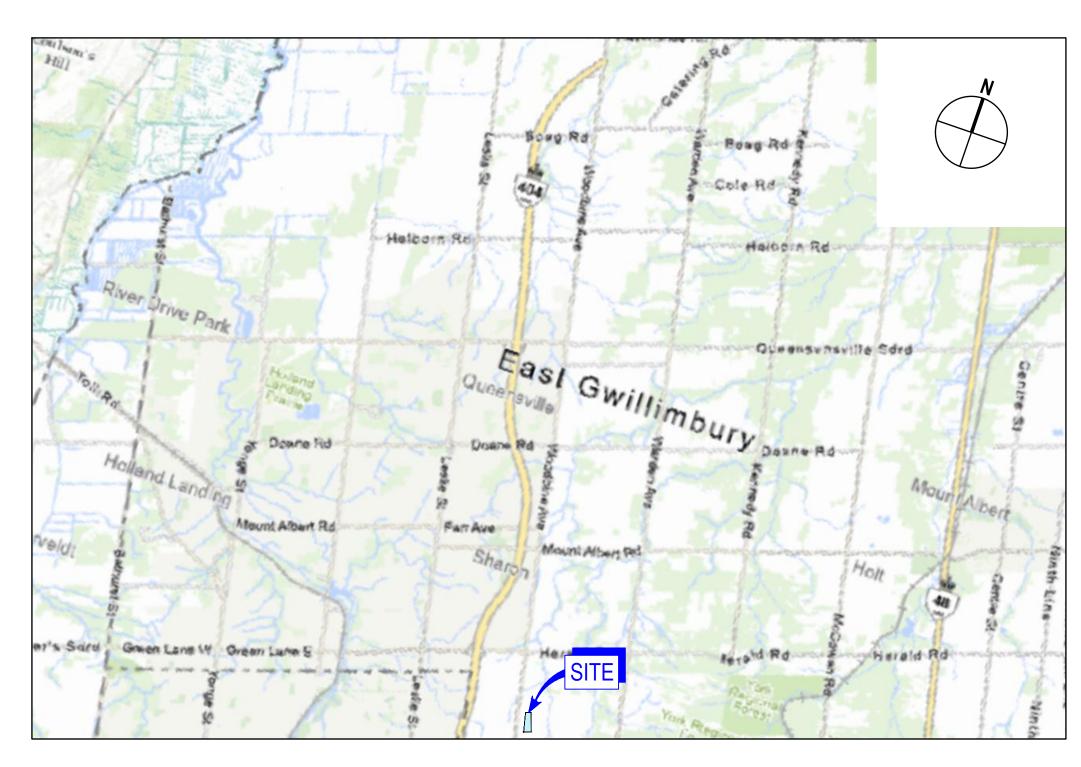
CONVERTUS YORK BIOFUEL LTD.

CONVERTUS BIOFUEL FACILITY 50 GARFIELD WRIGHT BOULEVARD EAST GWILLIMBURY, ONTARIO

JANUARY 2024



APPLICANT: CONVERTUS



PREPARED BY: GHD





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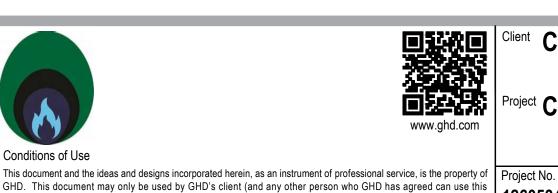
"YORKMAPS" BY THE REGIONAL MUNICIPALITY OF YORK RETRIEVED FROM:

N.T.S.

OVERALL SITE LOCATION

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itle GENERAL - COVER SHEET

Diect CONVERTUS BIOFUEL FACILITY

2024-01-23

12605345-GHD-10-10-DRG-CI-D0

Plot Date: 23 January 2024 - 7:37 PM

PREPARED BY: GHD

P01 ISSUED FOR SPA

Author S.HOLLAND

Drafting Check A. WRIGGLESWORTH Project Manager R.LOVEDAY

Path and Filename: N:\CA\Waterloo\Projects\662\12605345\Digital_Design\ACAD\Sheets\Convertus Biogas Facility\GN\12605345-GHD-10-10-DRG-CI-D001.dwg

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12605345-GHD-10-10-DRG-CI-D101	GENERAL - KEY PLAN
12605345-GHD-10-10-DRG-CI-D102	GENERAL - SITE PLAN EXISTING CONDITIONS
12605345-GHD-10-10-DRG-CI-D103	GENERAL - SITE PREPARATION AND REMOVALS
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PREPARED BY: **GHD**

Plot Date: 23 January 2024 - 10:21 PM

P01 ISSUED FOR SPA R.A / R.C R.L 2024-01-23 Checked Approved Drafting Check A. WRIGGLESWORTH Project Manager R. LOVEDAY Author S. HOLLAND Designer R. AZZAM / R. CHERKEWSKI Design Check A. WRIGGLESWORTH Project Director M. DI NIRO

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Client CONVERTUS YORK BIOFUEL LTD.

Project CONVERTUS BIOFUEL FACILITY

Title GENERAL - DRAWING INDEX

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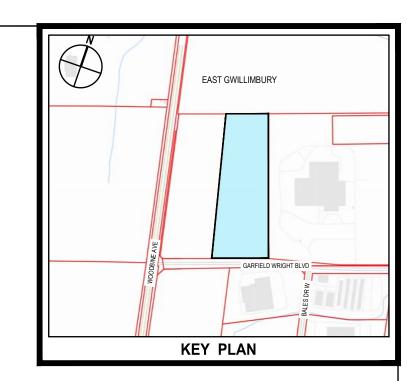
Project No.

12605345 Scale 2024-01-23

12605345-GHD-10-10-DRG-CI-D002

NOT FOR CONSTRUCTION





LEGEND:

SITE LOCATION

SOURCE & BENCHMARKS

LEGAL SURVEY "PART 1, BLOCK 1, PLAN 65M-3843, TOWN OF EAST GWILLIMBURY, REGIONAL MUNICIPALITY OF YORK, PROVINCE OF ONTARIO", AND EXISTING TOPOGRAPHY AND SITE FEATURES, COMPILED BY SCHAEFFER DZALDOV PURCELL LTD (OLS), CONCORD, ONTARIO. SDP JOB 23-009 & 23-010, FILE "G2-M3843-BLOCK-1", 2023-MARCH. UTM ZONING 17, NAD-83 (CSRS-2010); CGVD-1928:1978, STATION 00820118077, BENCHMARK, ELEVATION 290.976 METRES GEODETIC, LOCATED AT THE INTERCHANGE OF PROVINCIAL HWY-404 AND YORK REGION ROAD-31 (DAVIS DRIVE), APPROXIMATELY 1400-METRES SOUTH-WEST OF SUBJECT SITE.

ADDITIONAL TOPOGRAPHY AND SITE FEATURES SURVEY, NORTH-EAST / EAST OF SITE LIMITS, COMPILED BY GHD LTD, WATERLOO, ONTARIO. GHD JOB 12605345, FILE "12605345(SOURCE)V001 FILE 2 EXISTING CONDITIONS", 2023-NOVEMBER. UTM ZONING 17, NAD-83 (CSRS-2010), CGVD-1928:1978, YORK REGION VERTICAL CONTROL BENCHMARK 56-131, TABLET, ELEVATION 284.55, LOCATED 21.8 METRES SOUTH AND 82.4 METRES WEST OF THE CENTRELINE OF THE INTERSECTION OF YORK REGION ROAD-31 (DAVIS DRIVE), AND YORK REGION ROAD-8 (WOODBINE AVENUE), APPROXIMATELY 500-METRES SOUTH-WEST OF SUBJECT SITE.

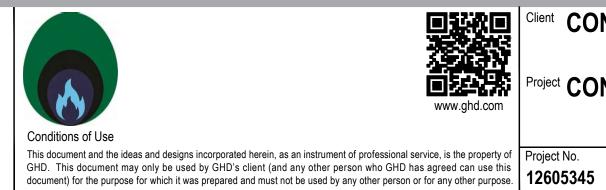
AERIAL IMAGERY PROVIDED BY:

"YORKMAPS" BY THE REGIONAL MUNICIPALITY OF YORK RETRIEVED FROM: //MAPS.YORK.CA ON OCTOBER 26,

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2024-01-23

Title GENERAL - KEY PLAN

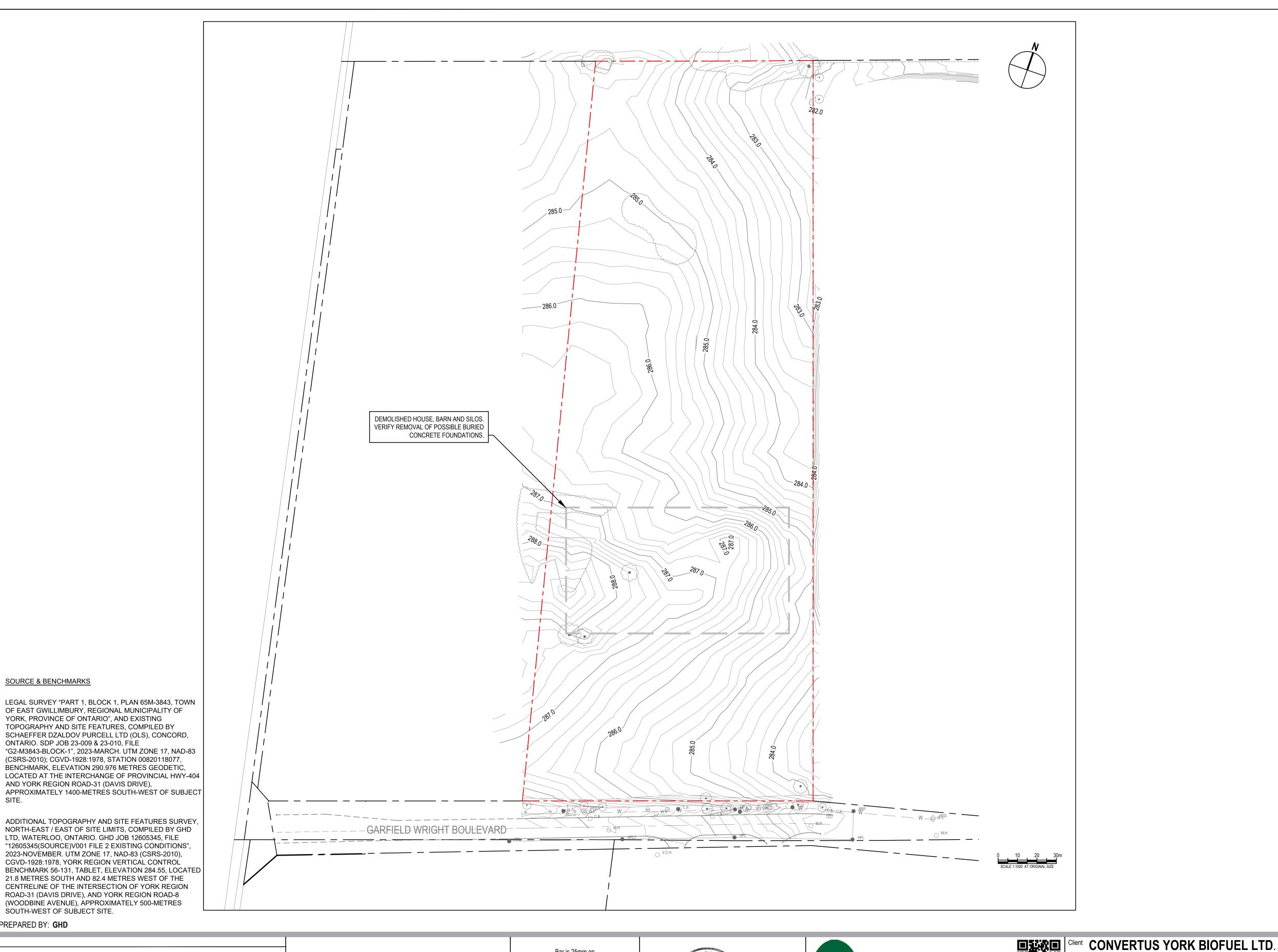
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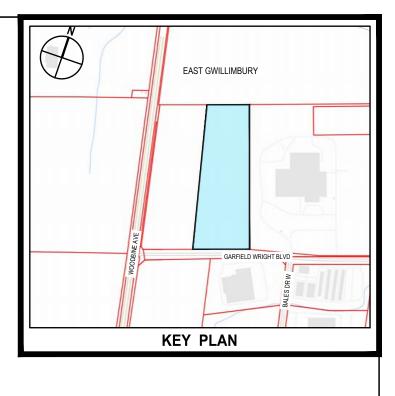
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R.A / R.C R.L 2024-01-23 P02 ISSUED FOR SPA P01 ISSUED FOR SPA PRE-CONSULTATION 2023-05-18 R.A R.L Checked Approved Date Author S. HOLLAND Drafting Check A. WRIGGLESWORTH Project Manager R. LOVEDAY

Designer R. AZZAM / R. CHERKEWSKI Design Check A. WRIGGLESWORTH Project Director M. DI NIRO





LEGEND:

— – — PROJECT LOT LIMIT

——— ADJACENT LOT LEGAL LIMIT

— 282 — MAJOR CONTOUR (1M INTERVAL) MINOR CONTOUR (0.2M INTERVAL)

FENCE LINE

ROAD

ROAD (APPROXIMATE)

— — E — OVERHEAD ECLECTIC

--- W--- WATERMAIN

TREE LINE

TREE

○ M.H. MAINTENANCE HOLE

C.B. CATCHBASIN

-⊢ HYD. FIRE HYDRANT

WATER VALVE

VALVE CHAMBER

LIGHT STANDARD

HYDRO POLE

HYDRO POLE & LIGHT

HYDRO POLE & TRANSFORMER

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P02 ISSUED FOR SPA R.A / R.C R.L 2024-01-23 P01 ISSUED FOR SPA PRE-CONSULTATION R.A R.L 2023-05-18 Checked Approved Drafting Check A. WRIGGLESWORTH Project Manager R. LOVEDAY Author S. HOLLAND Designer R. AZZAM / R. CHERKEWSKI Design Check A. WRIGGLESWORTH Project Director M. DI NIRO

SOURCE & BENCHMARKS

ONTARIO. SDP JOB 23-009 & 23-010, FILE

AND YORK REGION ROAD-31 (DAVIS DRIVE),

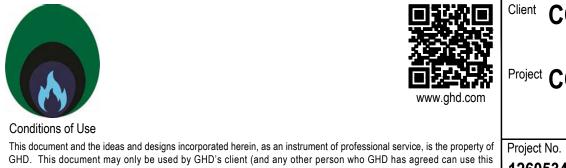
SOUTH-WEST OF SUBJECT SITE.

PREPARED BY: **GHD**

Plot Date: 23 January 2024 - 7:53 PM

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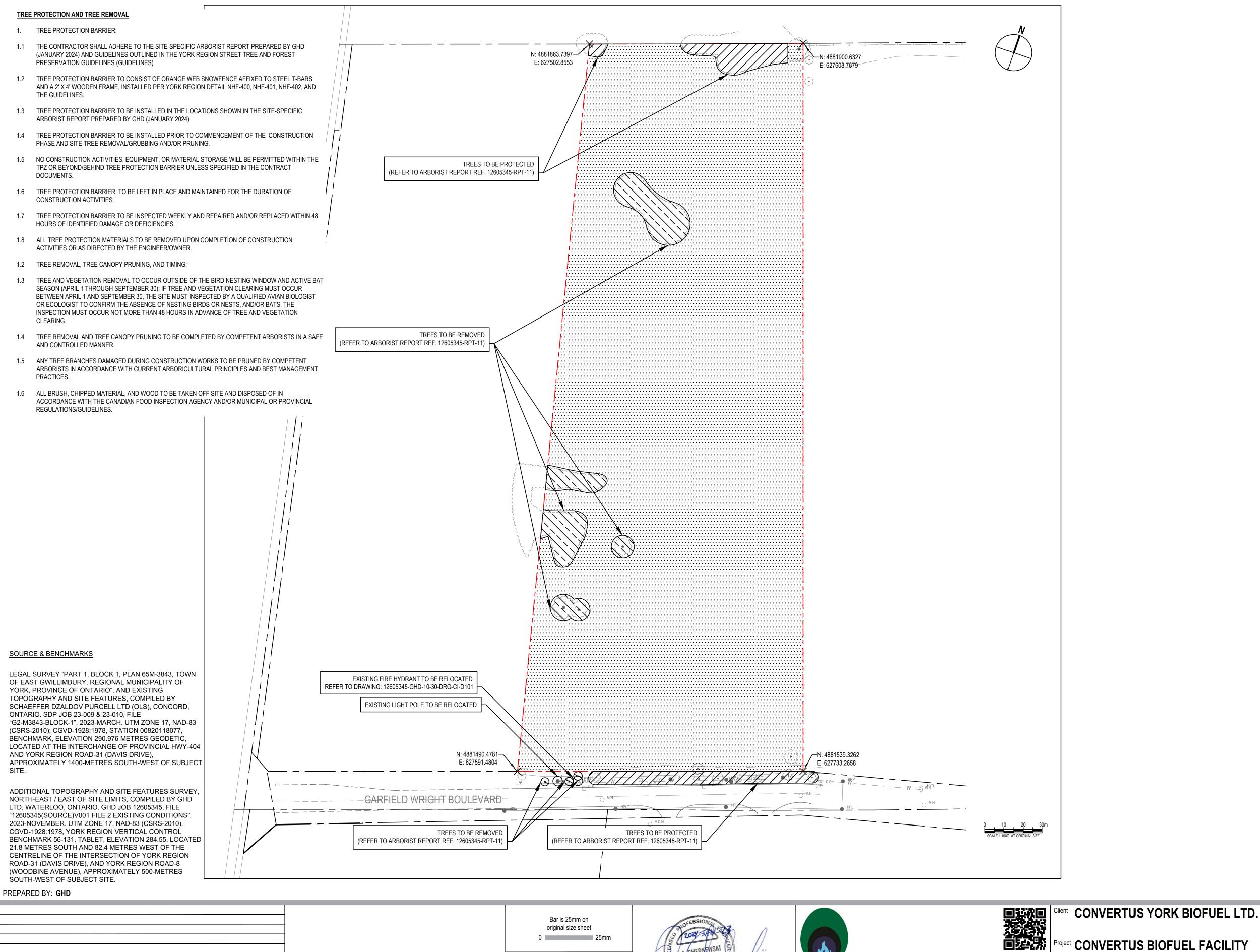
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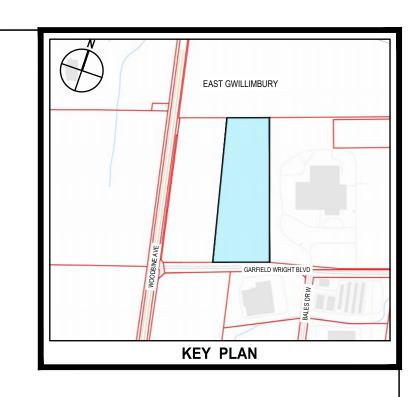
2024-01-20

Title GENERAL - SITE PLAN **EXISTING CONDITIONS**

1:1000

12605345-GHD-10-10-DRG-CI-D102





— – — PROJECT LOT LIMIT ——— — ADJACENT LOT LEGAL LIMIT FENCE LINE

<u>LEGEND:</u>

ROAD (APPROXIMATE) — — E — OVERHEAD ELECTRIC

--- W-- WATERMAIN TREE LINE

TREE

○ M.H. MAINTENANCE HOLE

☐ C.B. CATCHBASIN

FIRE HYDRANT

O V.C.H. VALVE CHAMBER

WATER VALVE

LIGHT STANDARD

HYDRO POLE

HYDRO POLE & LIGHT

HYDRO POLE & TRANSFORMER

REMOVALS AND RELOCATIONS LEGEND

TREES TO BE PROTECTED TREE REMOVAL

○ W.V.

CLEARING AND GRUBBING

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AND REMOVALS

1:1000

2024-01-23

12605345-GHD-10-10-DRG-CI-D103

Title GENERAL - SITE PREPARATION

Plotted By: Spencer Holland Plot Date: 23 January 2024 - 8:01 PM

R.A / R.C R.L

Checked Approved

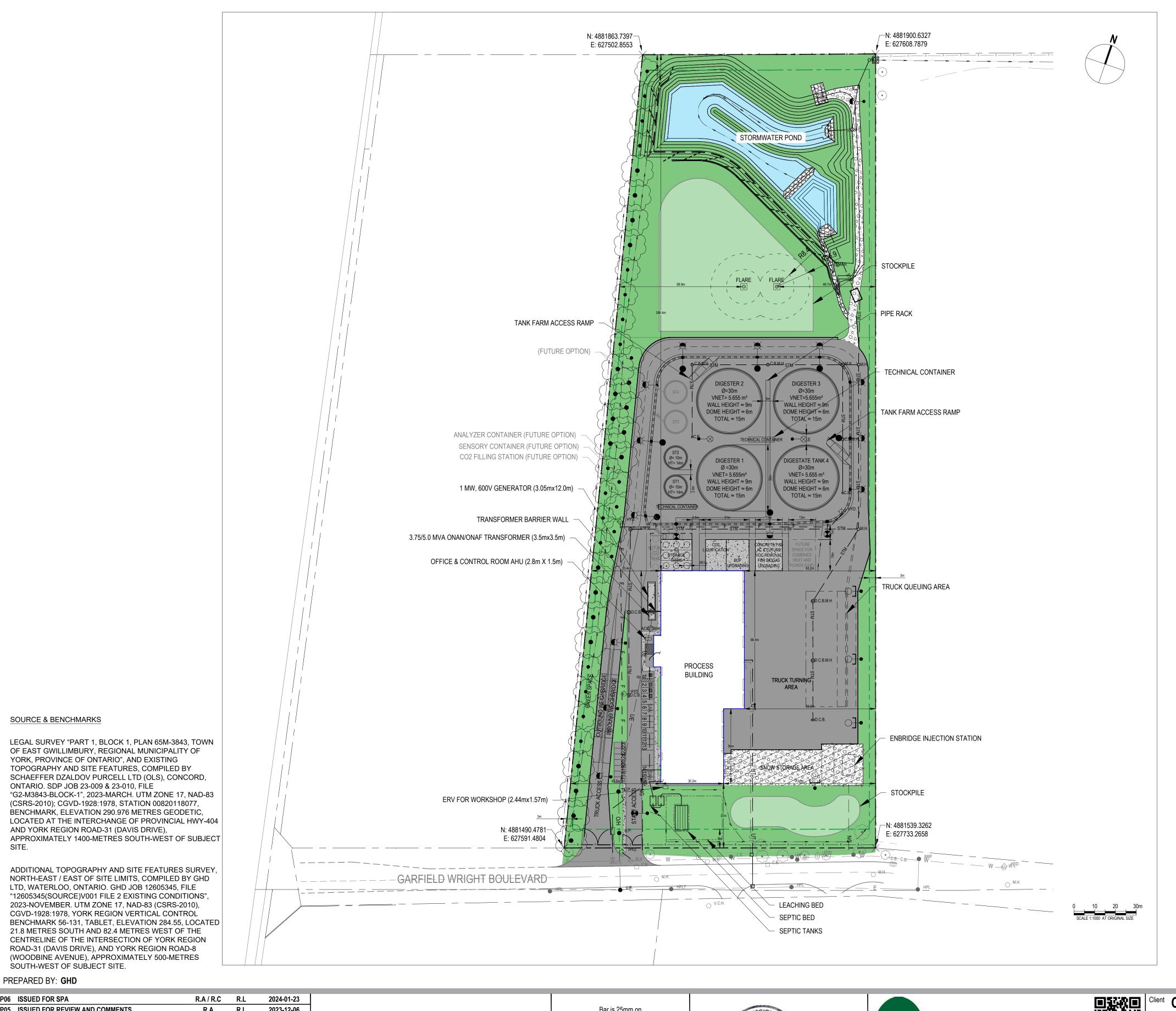
Drafting Check A. WRIGGLESWORTH Project Manager R. LOVEDAY

2024-01-23

P01 ISSUED FOR SPA

Author S. HOLLAND

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— – — PROJECT LOT LIMIT — – — SETBACK LIMIT ---- ADJACENT LOT LEGAL LIMIT — x — x — FENCE LINE ROAD (APPROXIMATE) — — E — OVERHEAD ELECTRIC --- W-- WATERMAIN \bullet TREE MAINTENANCE HOLE C.B. CATCHBASIN FIRE HYDRANT WATER VALVE VALVE CHAMBER LIGHT STANDARD HYDRO POLE HYDRO POLE & LIGHT HYDRO POLE & TRANSFORMER PROPOSED CATCHBASIN ■ C.B. PROPOSED DOUBLE CATCHBASIN PROPOSED DOUBLE CATCHBASIN MAINTENANCE HOLE PROPOSED CATCHBASIN MAINTENANCE HOLE PROPOSED MAINTENANCE HOLE PROPOSED MAINTENANCE HOLE WITH 2 ACCESS COVERS PROPOSED UTILITIES POLE PROPOSED TREE PROPOSED HYDRANT PROPOSED LIGHTING PROPOSED EDGE OF ASPHALT PROPOSED ROAD MARKINGS PROPOSED CURB PROPOSED SWALE PROPOSED FENCE LINE ----×----× PROPOSED ACCESS GATE — — UE — PROPOSED UNDERGROUND ELECTRIC PROPOSED STORM SEWER ---- W --- PROPOSED WATERMAIN — F — PROPOSED FIRE WATERMAIN PROPOSED SANITARY FORCEMAIN PROPOSED NATURAL GAS — UT — PROPOSED UNDERGROUND TELECOM — — UT — PROPOSED SPARE CONDUIT FOR FUTURE TELECOM PROPOSED PERFORATED GROUNDWATER LATERAL COLLECTOR PROPOSED PERFORATED GROUNDWATER MAINLINE COLLECTOR PROPOSED BUILDING PROPOSED HARD SURFACE PROPOSED GRAVEL AREA PROPOSED LANDSCAPE SURFACE PROPOSED CONCRETE PROPOSED GRANULAR (SNOW STORAGE AREA) PROPOSED RIP-RAP

LEGEND:

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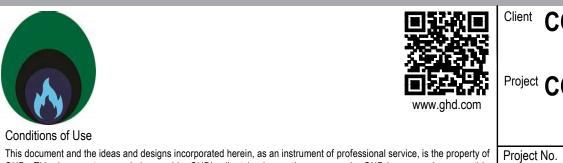
EAST GWILLIMBURY

KEY PLAN

P06	ISSUED FOR SPA		R.A / R.C	R.L	2024-01-23
P05	ISSUED FOR REVIEW AND O	OMMENTS	R.A	R.L	2023-12-06
P04	ISSUED FOR REVIEW AND O	OMMENTS	R.A	R.L	2023-11-27
P03	ISSUED FOR REVIEW AND O	OMMENTS	R.A	R.L	2023-07-04
P02	ISSUED FOR CLIENT REVIE	N	R.A	R.L	2023-06-19
P01	ISSUED FOR SPA PRE-CON	SULTATION	R.A	R.L	2023-06-06
No.	Issue		Checked	Approved	Date
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Diect CONVERTUS BIOFUEL FACILITY

2024-01-23

Title GENERAL - SITE PLAN PROPOSED CONDITIONS

Scale

1:1000

12605345-GHD-10-10-DRG-CI-D10

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CONVERTUS YORK BIOFUEL LTD, CONVERTUS BIOFUEL FACILITY

MUNICIPAL ADDRESS:

50 GARFIELD WRIGHT BOULEVARD, EAST GWILLIMBURY, ONTARIO, CANADA

LEGAL DESCRIPTION:

PART LOT 2, CONCESSION 4, EAST GWILLIMBURY TOWNSHIP, YORK REGION, PROVINCE OF ONTARIO PART 1, BLOCK 1, PLAN 65M-3843, TOWN OF EAST GWILLIMBURY, REGIONAL MUNICIPALITY OF YORK PART OF PIN 03440-0249

GIS PARCEL ID: 409 528 TAX ASSESSMENT ROLL NUMBER: 19540 00107 47002 PIN: 03440-0362 (<VERIFY)

SUMMARY EXCERPTS/REQUIREMENTS FROM ZONING BY-LAW:

ZONING M2, EMPLOYMENT GENERAL

PERMITTED USES IN ZONING M2, EMPLOYMENT GENERAL (SELECT LISTING)

--INDUSTRIAL USE --WASTE PROCESSING STATION

--WASTE TRANSFER STATION

PROPOSED USE:

--WASTE PROCESSING STATION

	REQUIRED F	PROVIDED
MINIMUM LOT FRONTAGE MINIMUM FRONT YARD	15.0 m 6.0 m	150.0 m 31.0 m
MINIMUM REAR YARD MINIMUM INTERIOR SIDE YARD MINIMUM EXTERIOR SIDE YARD	7.5 m 3.0 m 3.0 m	248.4 m 33.4 m N/A
MAXIMUM BUILDING HEIGHT	N/A	~13.7 m
LOT DEPTH (MID-FRONT TO MID-REAR)	N/A	~382.5 m

LOT COVERAGE (MAIN BLDG TO EXTERIOR OF WALL) 3.811 M2 7.6-PERCENT

MINIMUM LANDSCAPING AREA

LOT AREA (WITHIN LOT LINES)

50,073 m²

10-PERCENT ~26,000 M2 ~52-PERCENT SOFT/GREEN-AREAS, INCL WALKWAYS/PAVERS ~22.200 M2 ~44-PERCENT ASPHALTED AREAS, INCLUDING TANK FARM ~1,800 M2 ~4-PERCENT GRANULAR AREAS (PADS/ACCESS LANEWAY)

A MINIMUM 3.0 METRE WIDE PLANTING STRIP ABUTTING THE FULL LENGTH OF A LOT LINE IS REQUIRED ON A LOT IN ANY MIXED USE, INSTITUTIONAL, COMMERCIAL OR EMPLOYMENT ZONE THAT ABUTS AN INTERIOR SIDE OR REAR LOT LINE OF A LOT IN ANY RESIDENTIAL ZONE

--NOT APPLICABLE TO SITE (NO RESIDENTIAL), BUT A VARIABLE WIDTH PLANTING STRIP IS PROVIDED

MAIN BLDG **ACCESSORY**

FLOOR AREA, GROSS (TOTAL)

4,080-M2 N/A -- VARIOUS OUTDOOR EQUIPMENT SKIDS/ENCLOSURES/TANKS NOT INCLUDED; BUILDING ONLY

FLOOR AREA, 2ND-FLOOR / MEZZANINE

FLOOR AREA, GROUND (FOOTPRINT)

FLOOR AREA, NET (WORKING/OCCUPIED-AREA, SERVICE AREAS DEDUCTED)

1,725-M2 (APPROX.) N/A

NON-RESIDENTIAL PARKING REQUIREMENT... --MINIMUM PARKING SPACES REQUIRED (NET FLOOR AREA UNLESS OTHERWISE NOTED)

...INDUSTRIAL USES IN A SINGLE-USE BUILDING: 1/100 M2 FOR THE FIRST 10,000 M2 OF FLOOR AREA

PROVIDED: 23 (INCLUDING ACCESSIBLE), ADDITIONAL CONTRACTOR/STAFF-SPACE AVAILABLE AT REAR (THIS VALUE SATISFIES PROJECTED OWNER/OPERATOR ACTUAL-PARKING REQUIREMENTS)

PARKING, LOADING, AND DRIVEWAY DETAILS...

- --MUST BE SURFACE TREATED WITH ASPHALT, CONCRETE, CONCRETE PAVERS, BRICK OR SIMILAR HARDSCAPED MATERIAL
- --PARKING AREAS MUST BE SET BACK A MINIMUM OF 1.5 METRES FROM ANY BUILDING ON THE SAME LOT
- --MINIMUM WIDTH OF A PARKING AISLE WITHIN A PARKING AREA OR PARKING GARAGE SHALL BE 6.0 METRES --DRIVEWAYS ACCESSING A PARKING AREA OR PARKING GARAGE MUST BE A MINIMUM OF 3.8 METRES IN WIDTH
- FOR ONE-WAY TRAFFIC AND A MINIMUM OF 6.5 METRES IN WIDTH FOR TWO-WAY TRAFFIC (AND MIN 6.0 FOR FIRE ROUTE)
- --PARKING SPACE SHALL HAVE UNOBSTRUCTED WIDTH NOT LESS THAN 2.75 METRES AND LENGTH NOT LESS THAN 5.8 METRES --PARALLEL PARKING SPACE SHALL HAVE A MINIMUM WIDTH 2.75 METRES AND A MINIMUM LENGTH 6.5 METRES
- --LOADING SPACE MUST BE MIN 3.5 METRES WIDTH, 12.0 METRES LENGTH, WITH A MIN VERTICAL CLEARANCE 4.2 METRES
- --NUMBER OF ACCESSIBLE PARKING SPACES BASED ON RATIO OF TOTAL NUMBER PARKING SPACES REQUIRED
- ...AT TOTAL NUMBER PARKING SPACES REQUIRED 13-TO-100, 4-PERCENT (ROUNDED-UP) TO BE ACCESSIBLE: 1-REQUIRED ..WHERE 12 OR MORE TOTAL PARKING SPACES REQUIRED, ACCESSIBLE SPACES ARE IN ADDITION TO TOTAL NUMBER
- --ACCESSIBLE PARKING SPACE, TYPE-A SHALL HAVE A MINIMUM WIDTH 3.4 METRES AND A MINIMUM LENGTH 5.8 METRES
- --ACCESSIBLE PARKING SPACE, TYPE-B SHALL HAVE A MINIMUM WIDTH 2.4 METRES AND A MINIMUM LENGTH 5.8 METRES ..MINIMUM ONE TYPE-A, EVEN NUMBER OF SPACES, EQUAL NUMBER EACH TYPE, ODD NUMBER MAY BE TYPE-B
- ..MINIMUM SEPARATION OF 1.5 METRES REQUIRED ABUTTING ENTIRE LENGTH OF ONE SIDE OF ACCESSIBLE PARKING SPACE
- ..MINIMUM DISTANCE SEPARATION MAY BE SHARED BY TWO ACCESSIBLE PARKING SPACES

--PARKING AREAS THAT HAVE 20 PARKING SPACES OR MORE MUST CONTAIN A MINIMUM OF 5 PERCENT OF THEIR AREA AS LANDSCAPING AREA. LANDSCAPING AREAS MUST BE CALCULATED ON THE BASIS OF THE NET PARKING FACILITIES. WHICH INCLUDES PARKING STALLS. ACCESS DRIVES, AISLES, AND WALKWAYS, BUT DOES NOT INCLUDE REQUIRED LANDSCAPING ADJACENT TO STREETS: PROVIDED VIA PLANTING/LANDSCAPE STRIPS ADJACENT TO DRIVEWAYS/PARKING/WALKWAY AREAS

BICYCLE PARKING REQUIREMENTS: NOT REQUIRED FOR GENERAL EMPLOYMENT ZONES

--MOTOR VEHICLE PARKING REQUIREMENTS MAY BE REDUCED IN EMPLOYMENT ZONES AT THE RATE OF 1 MOTOR VEHICLE PARKING SPACE

REQUIRED FOR EVERY 5 BICYCLE PARKING SPACES PROVIDED

--BICYCLE PARKING SPACES TO BE A MINIMUM OF 0.6 METRES WIDE AND 1.8 METRES LONG

OTHER...

BARRIER-FREE ACCESS

--PROVIDED FOR OFFICE AREAS: FULLY-ACCESSIBLE

--PLANT/PROCESS AREAS: BASIC-ACCESS ONLY (REQUIRES ABLE-PERSONS TO SAFELY COMPLETE MOST TASKS)

ROOFTOP MECHANICAL EQUIPMENT, IF NOT FULLY ENCLOSED WITHIN A MECHANICAL PENTHOUSE OR SCREENED BY AN ARCHITECTURAL FEATURE, SHALL BE SET BACK A MINIMUM OF 5.0 METRES FROM ALL EDGES OF A ROOF

--PARAPET-SCREENING MINIMUM 1.2-M IN HEIGHT TO BE PROVIDED (IF/AS/WHERE-REQUIRED)

ROOFTOP MECHANICAL EQUIPMENT, INCLUDING ANY APPURTENANCES THERETO, THAT EXCEEDS 2.0 METRES IN HEIGHT, SHALL BE FULLY

--ALL ROOFTOP MECH-EQUIPMENT TO BE LESS THAN 2.0-M IN HEIGHT, OR FULLY ENCLOSED

ALL WASTE GENERATED BY THE OCCUPANTS OF 6 OR MORE DWELLING UNITS ON A LOT, OR FROM ANY COMMERCIAL, INDUSTRIAL OR INSTITUTIONAL USE, MUST BE STORED INSIDE A BUILDING --WASTE TO BE STORED INDOORS

OUTDOOR STORAGE SHALL BE SCREENED BY OPAQUE FENCING OR A MASONRY WALL WITH A MINIMUM HEIGHT OF 1.8 METRES OR A BERM WITH A MINIMUM HEIGHT OF 3.0 METRES

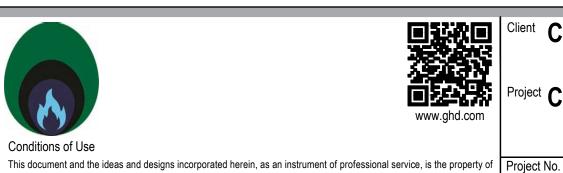
--SCREENING WILL BE PROVIDED

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R.C R.L 2024-01-23 P01 ISSUED FOR SPA Checked Approved Author S. HOLLAND Drafting Check A. WRIGGLESWORTH Project Manager R. LOVEDAY Designer R. CHERKEWSKI Design Check A. WRIGGLESWORTH Project Director M. DI NIRO

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Client CONVERTUS YORK BIOFUEL LTD.

Title GENERAL - SITE PLAN PROPOSED CONDITIONS NOTES

Scale 2024-01-23

12605345-GHD-10-10-DRG-CI-D10

Plot Date: 23 January 2024 - 8:03 PM Plotted By: Spencer Holland

PREPARED BY: GHD

Path and Filename: N:\CA\Waterloo\Projects\662\12605345\Digital_Design\ACAD\Sheets\Convertus Biogas Facility\GN\12605345-GHD-10-10-DRG-CI-D105.dwg



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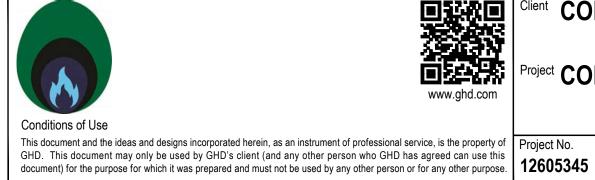
EAST GWILLIMBURY

KEY PLAN

P01 ISSUED FOR SPA R.A / R.C R.L 2024-01-23 Checked Approved Author S. HOLLAND Drafting Check A. WRIGGLESWORTH Project Manager R. LOVEDAY Designer R. AZAM / R. CHERKEWSKI Design Check A. WRIGGLESWORTH Project Director MI. DI NIRO

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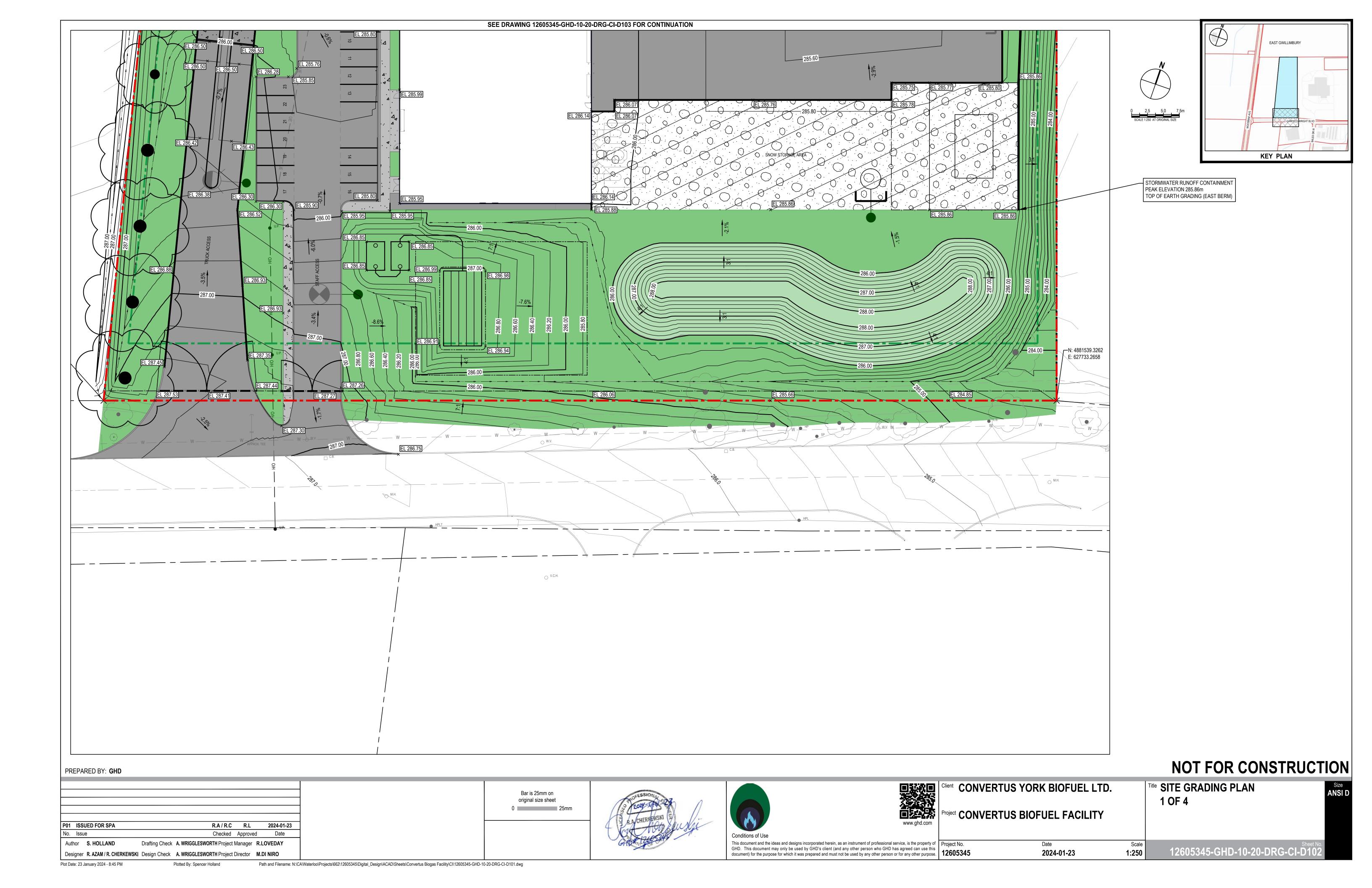
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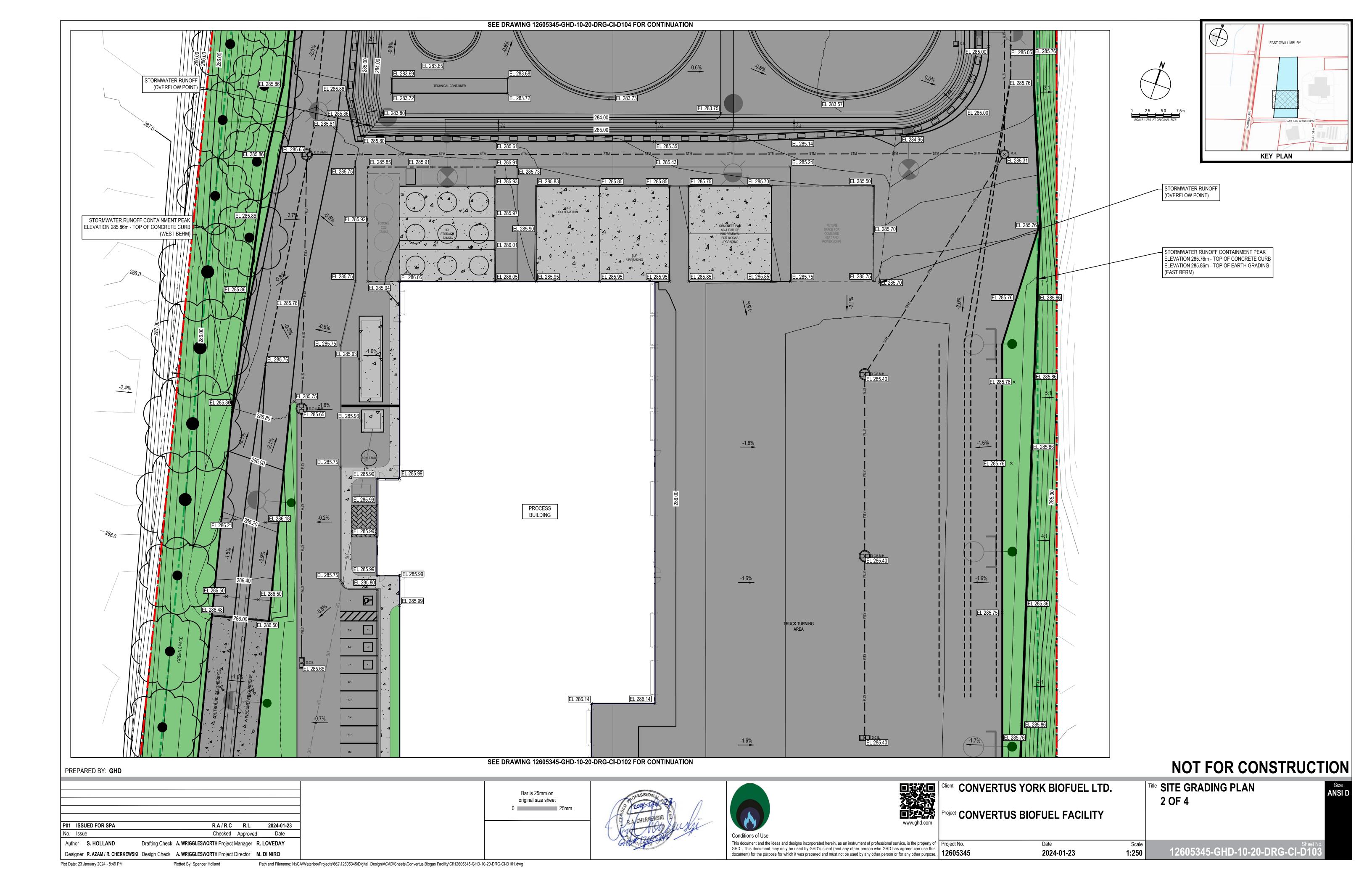
Title OVERALL SITE GRADING PLAN

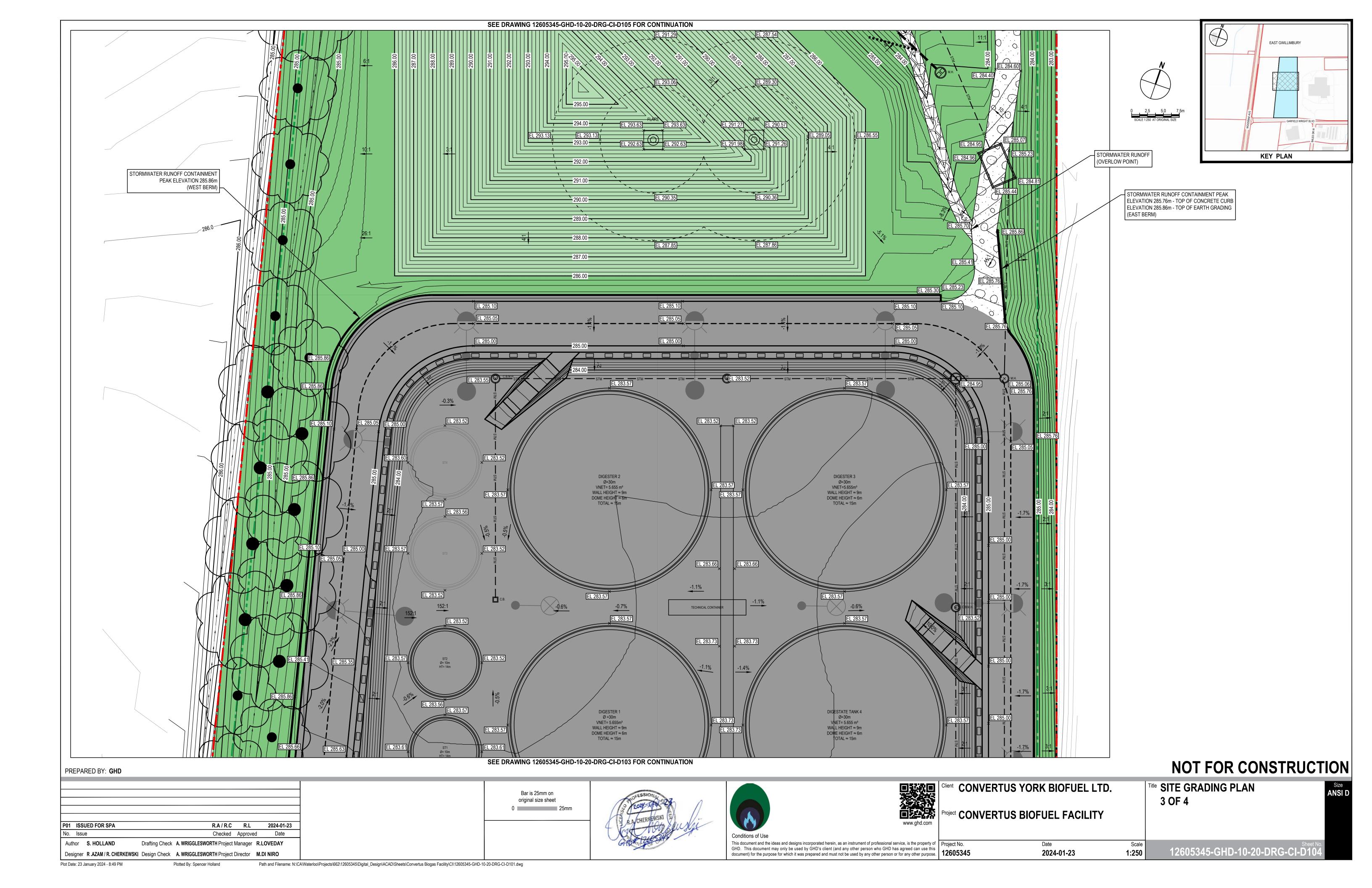
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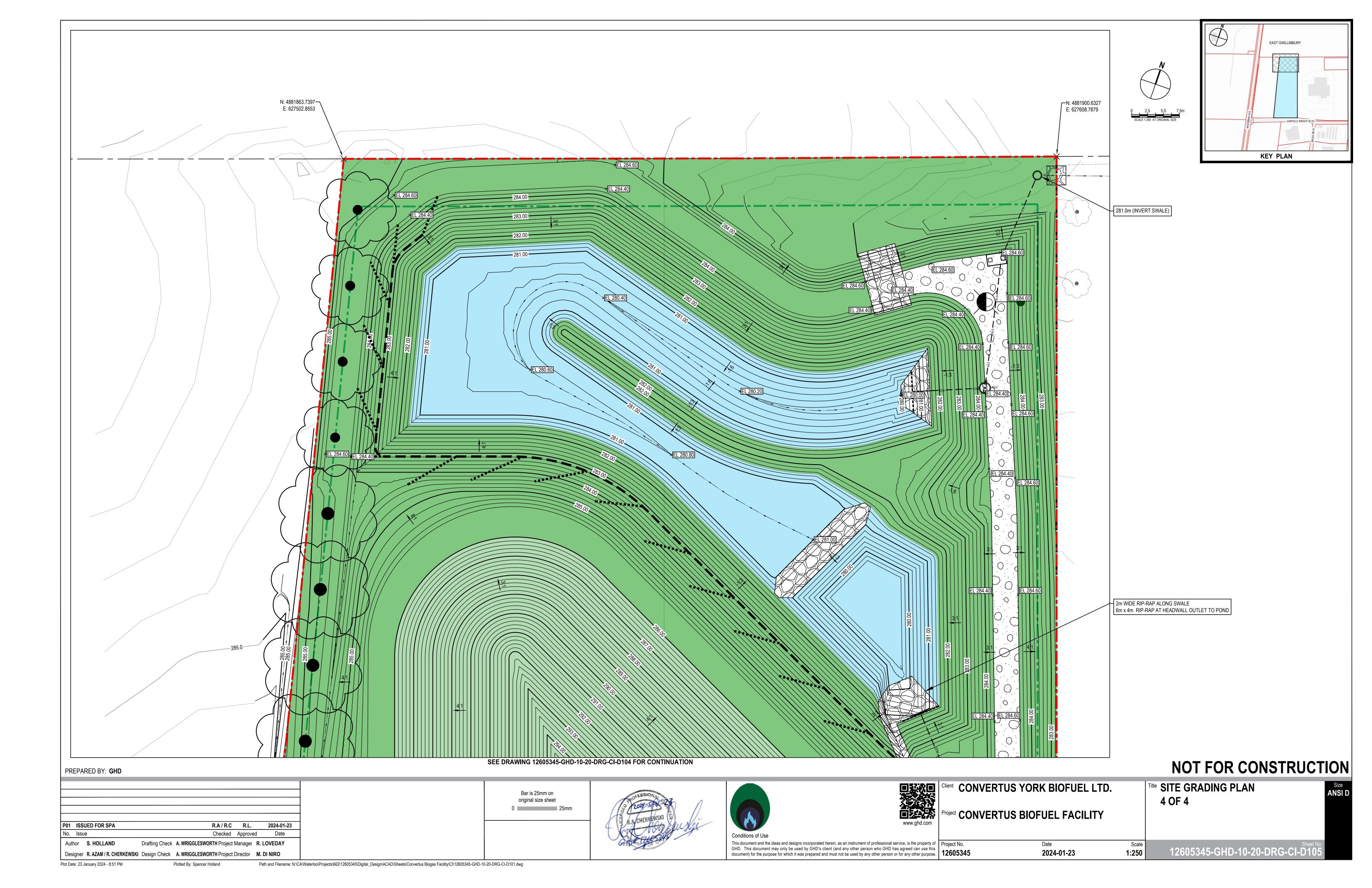
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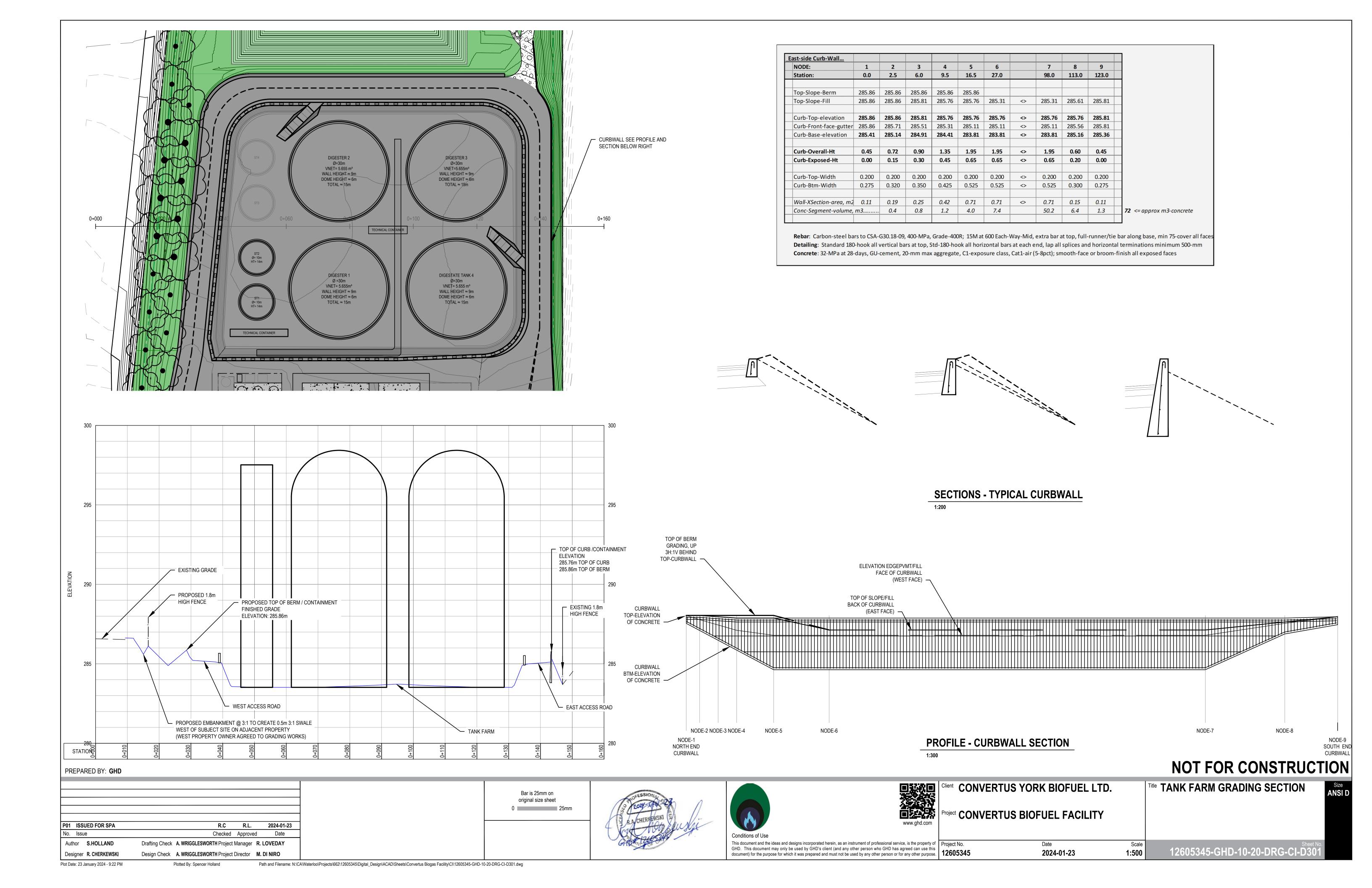
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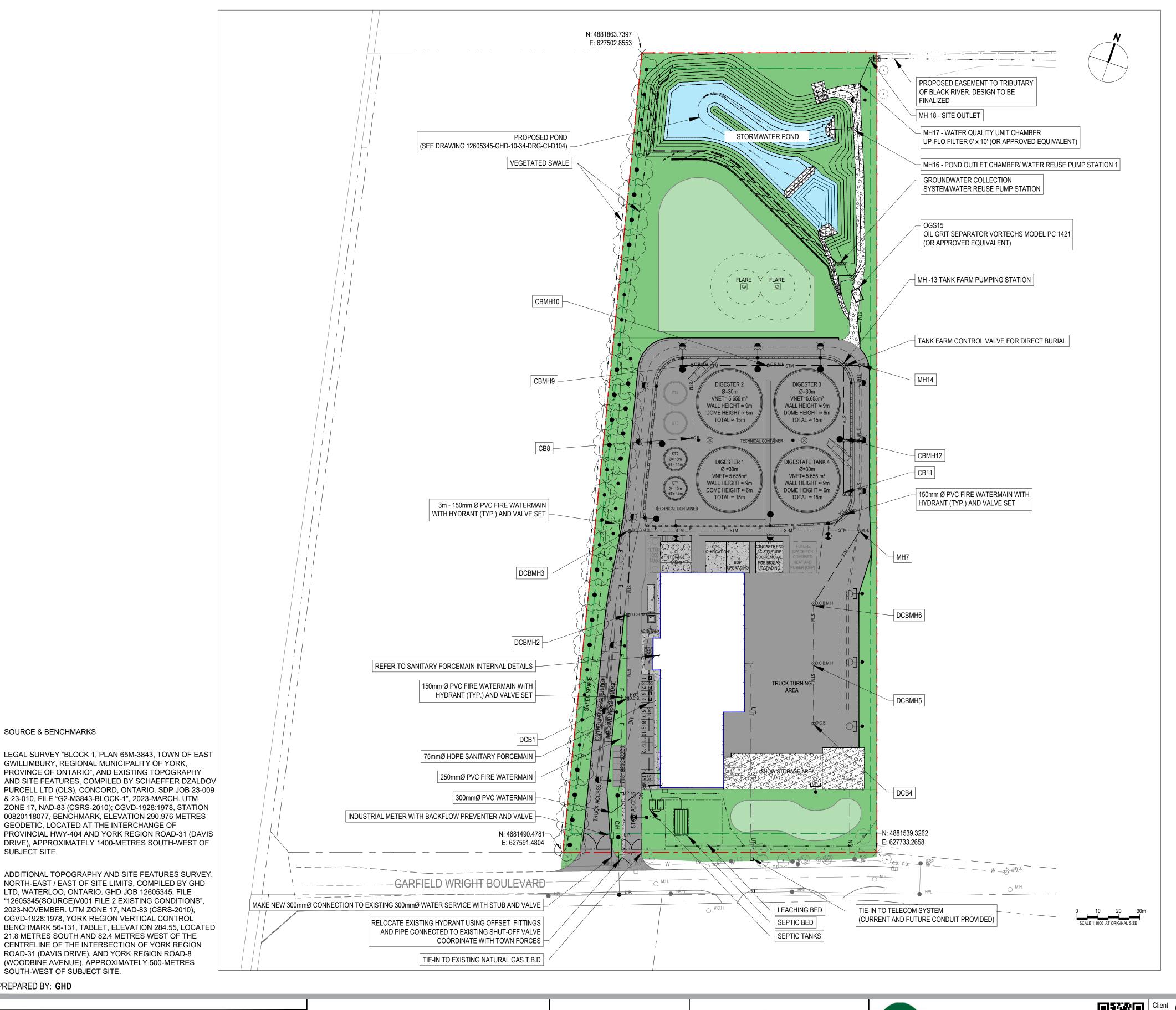












— – — PROJECT LOT LIMIT — – — SETBACK LIMIT — — ADJACENT LOT LEGAL LIMIT FENCE LINE ROAD ROAD (APPROXIMATE) OVERHEAD ELECTRIC WATERMAIN TREE MAINTENANCE HOLE ☐ C.B. CATCHBASIN FIRE HYDRANT WATER VALVE VALVE CHAMBER LIGHT STANDARD HYDRO POLE **HYDRO POLE & LIGHT** HYDRO POLE & TRANSFORMER PROPOSED CATCHBASIN C.B. PROPOSED DOUBLE CATCHBASIN PROPOSED DOUBLE CATCHBASIN MAINTENANCE HOLE PROPOSED CATCHBASIN MAINTENANCE HOLE PROPOSED MAINTENANCE HOLE PROPOSED MAINTENANCE HOLE WITH 2 ACCESS COVERS PROPOSED UTILITIES POLE PROPOSED TREE PROPOSED HYDRANT PROPOSED LIGHTING PROPOSED EDGE OF ASPHALT PROPOSED ROAD MARKINGS PROPOSED CURB PROPOSED SWALE PROPOSED FENCE LINE ----×-----× PROPOSED ACCESS GATE -- PROPOSED UNDERGROUND ELECTRIC —— STM —— PROPOSED STORM SEWER — F — PROPOSED FIRE WATERMAIN PROPOSED SANITARY FORCEMAIN NG— PROPOSED NATURAL GAS —— UT —— PROPOSED UNDERGROUND TELECOM PROPOSED SPARE CONDUIT FOR FUTURE TELECOM PROPOSED BUILDING PROPOSED HARD SURFACE PROPOSED GRAVEL AREA PROPOSED LANDSCAPE SURFACE PROPOSED CONCRETE GRANULAR (SNOW STORAGE AREA) PROPOSED RIP-RAP

LEGEND:

NOT FOR CONSTRUCTION

EAST GWILLIMBURY

KEY PLAN

R.A / R.C R.L. 2024-01-23 P01 ISSUED FOR SPA Checked Approved Drafting Check A. WRIGGLESWORTH Project Manager R. LOVEDAY Author S. HOLLAND Designer R. AZAM / R. CHERKEWSKI Design Check A. WRIGGLESWORTH Project Director M. DI NIRO

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2024-01-23

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Title OVERALL SITE SERVICING PLAN

12605345-GHD-10-30-DRG-CI-D10⁻¹

SOURCE & BENCHMARKS

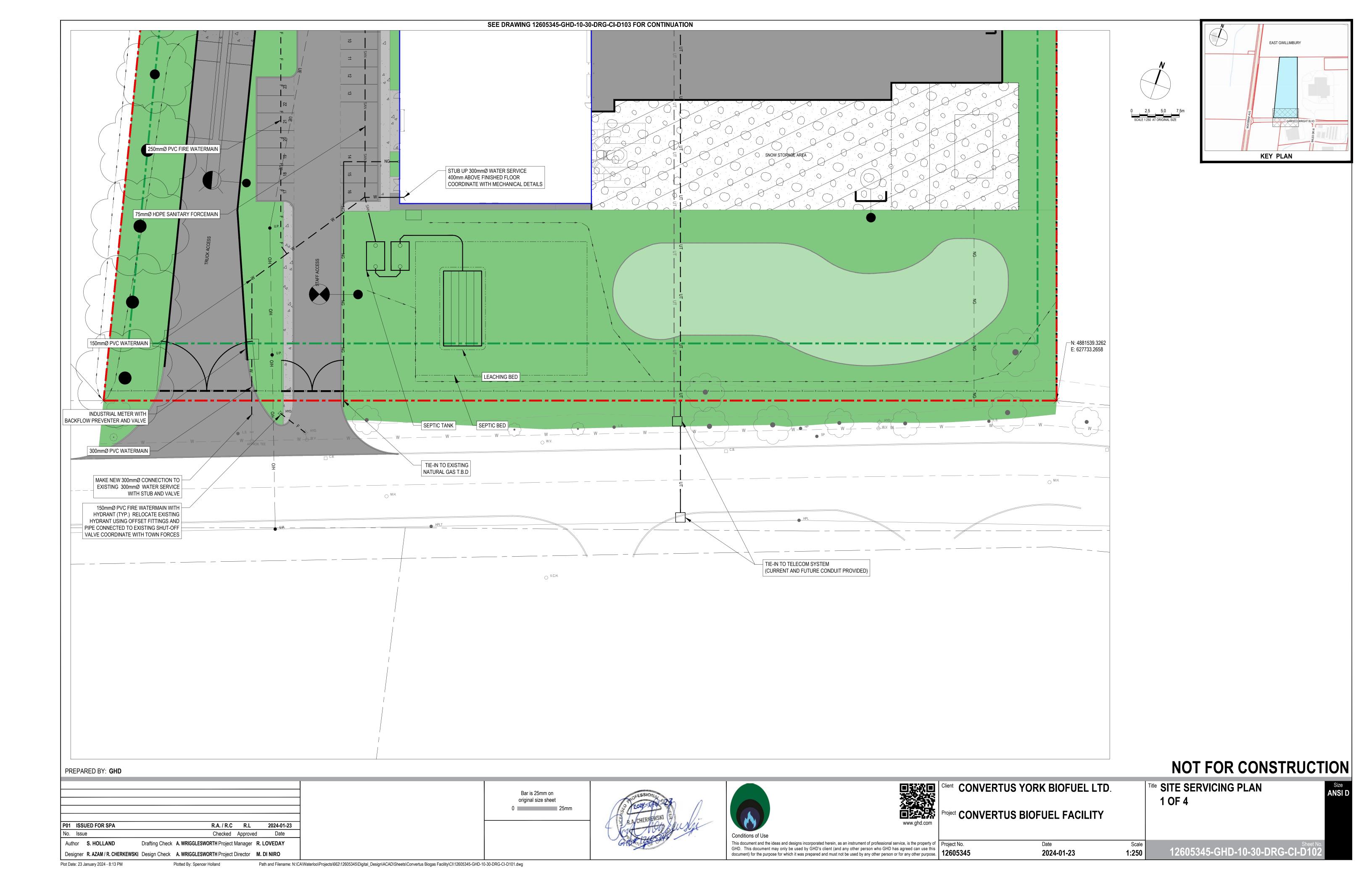
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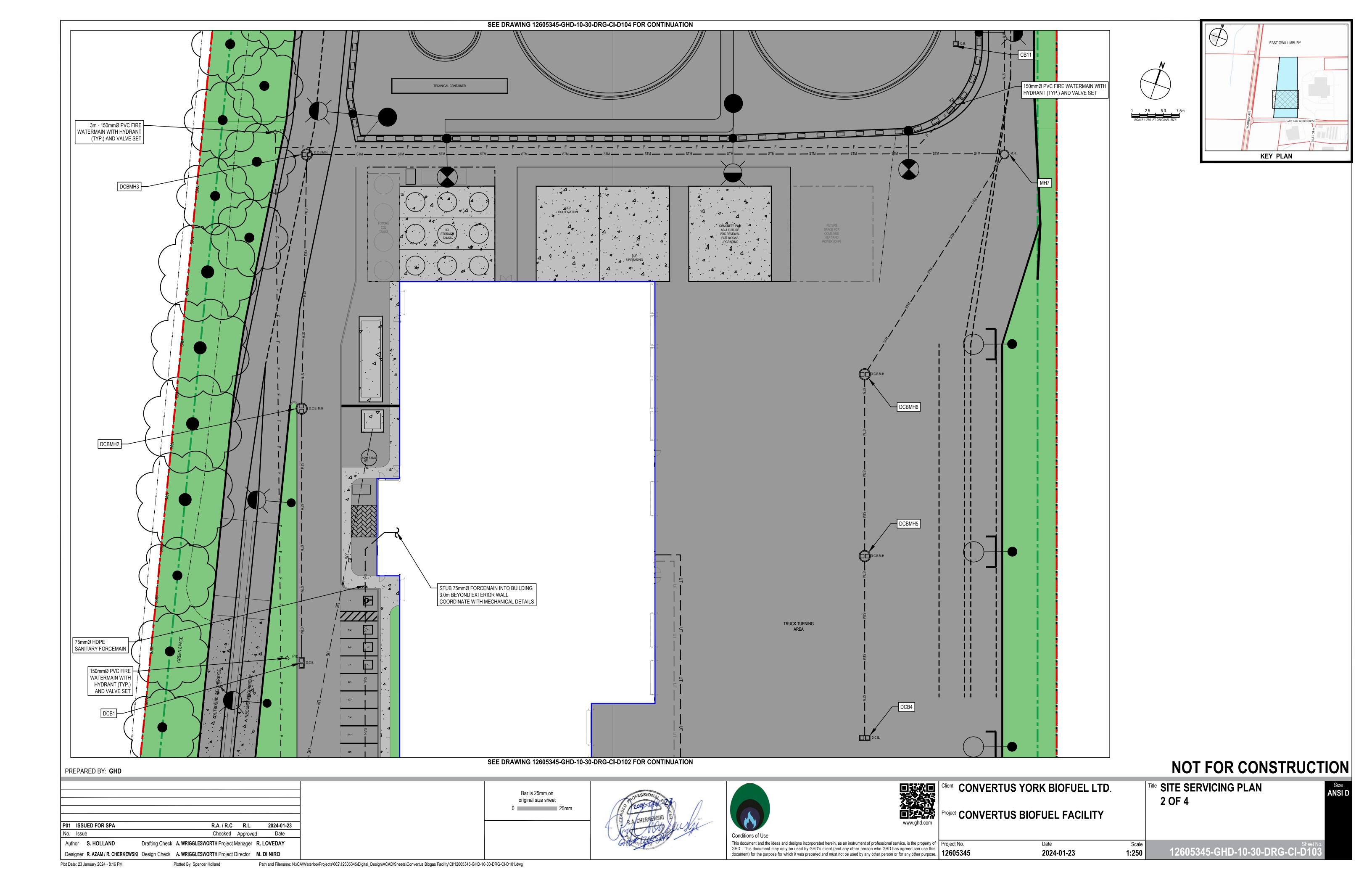
PREPARED BY: GHD

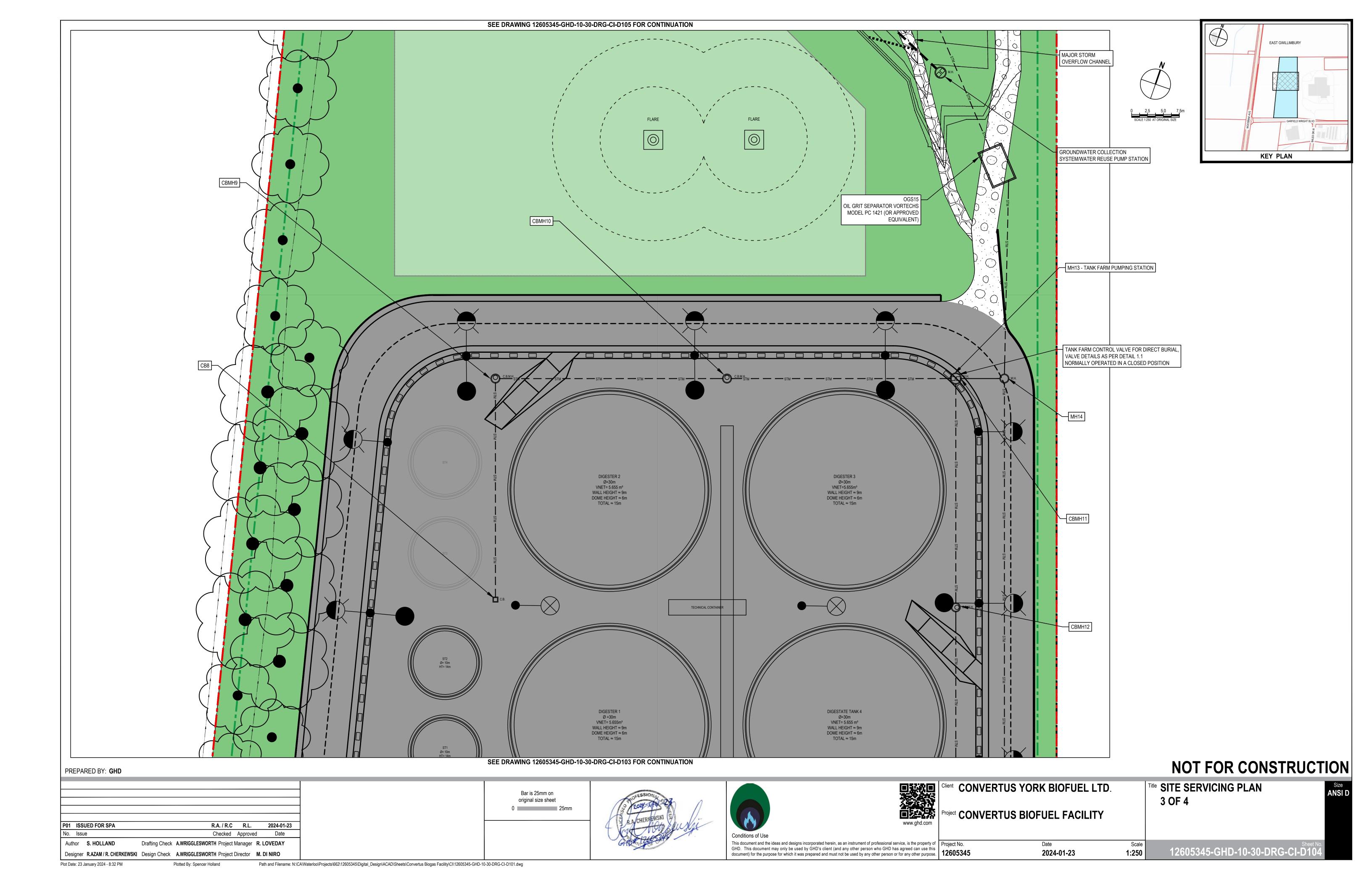
SOUTH-WEST OF SUBJECT SITE.

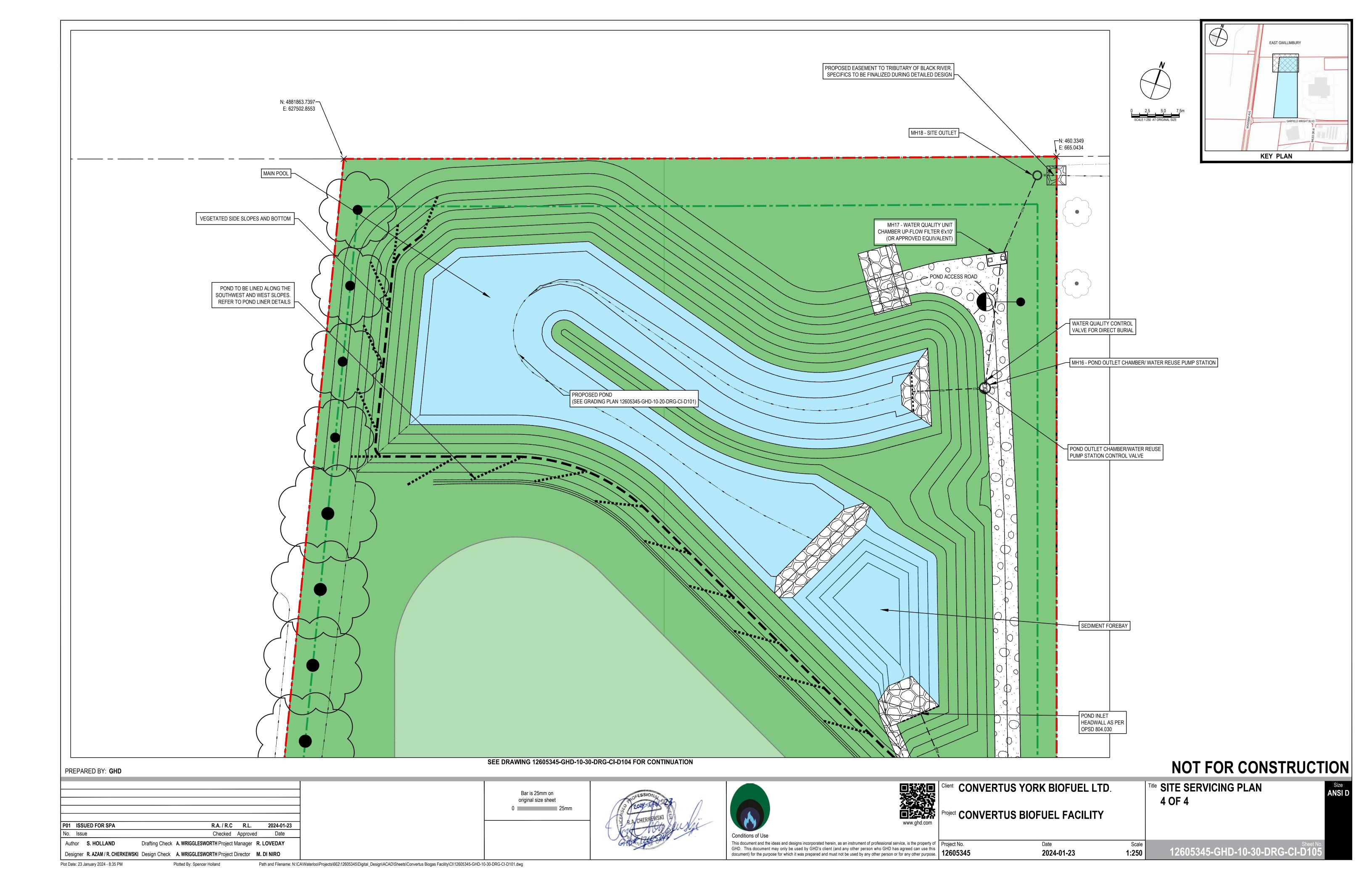
GWILLIMBURY, REGIONAL MUNICIPALITY OF YORK,

GEODETIC, LOCATED AT THE INTERCHANGE OF









1. GENERAL NOTES

- 1.1 ALL RIGHT-OF-WAY WORKS TO BE TO THE TOWN OF EAST GWILLIMBURY ENGINEERING DEPARTMENT STANDARDS AND SPECIFICATIONS AND TO THE SATISFACTION OF THE TOWN ENGINEER.
- 1.2 LOCATIONS OF EXISTING SERVICES NOT GUARANTEED CONTRACTOR TO NOTIFY UTILITY COMPANIES. MINIMUM FORTY-EIGHT (48) HOURS NOTICE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORK.
- 1.3 FOR DIMENSIONS AND DETAILS NOT SHOWN, SEE STANDARD DRAWING REFERRED TO ON THE
- 1.4 ALL EXCAVATIONS MUST BE CARRIED OUT ACCORDING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS (LASTED EDITION).
- 1.5 SEWER AND WATERMAIN TRENCHES TO BE BACKFILLED AND COMPACTED TO A MINIMUM OF 95%
- 1.6 ALL STANDARD DRAWINGS ARE TO BE OPSD (MOST RECENT REVISION) UNLESS OTHERWISE SPECIFIED.

2. <u>MEASUREMENTS</u>

2.1 ALL DIMENSIONS IN METRES, EXCEPT PIPE DIAMETER, WHICH IS IN MILLIMETRES, UNLESS OTHERWISE

3. ROADWORK'S

3.1 COMPACTION - ROAD SUBGRADE TO BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR DENSITY -GRANULAR MATERIALS TO BE SPREAD AND COMPACTED IN MAXIMUM 200 mm. ASPHALT TO BE COMPACTED TO MINIMUM OF 92 TO 96.5 PERCENT OF MAXIMUM RELATIVE DENSITY (MRD) PER OPSS.MUNI-310.

ITEM	COMPACTION REQUIRED
GRANULAR "B"	MINIMUM 95%
GRANULAR "A" OR 16mm CRUSHER RUN STONE	MINIMUM 100%

3.2 ROAD /PARKING DESIGN

LAYER MATERIAL	HD-ASPHALT (TRUCKS)	MD-ASPHALT (STAFF)	LD-ASPHALT (TANK FARM)
HL-3 ASPHALT (SURFACE)	40mm	40mm	40mm
HL-8 ASPHALT (BASE)	2 X 50mm	50mm	40mm
GRANULAR "A"	150mm	150mm	150mm
GRANULAR "B"	500mm	400mm	300mm

CONFIRM WITH GEOTECHNICAL REPORT

- 3.3 CURBS OPSD 600.110 BARRIER CURBS
- 3.4 INTERSECTIONS OF CURBS AND SIDEWALKS SHALL BE DEPRESSED, AS PER STANDARD OPSD 310.030.
- 3.5 ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE REINSTATED TO ORIGINAL CONDITION OR BETTER BY THE CONTRACTOR.

4. STORM SEWERS

- 4.1 PIPE ALL CONCRETE PIPE SHALL HAVE SEALED JOINTS WITH GASKETS AND CLASS AS SHOWN ON
- 4.2 ALL PVC GRAVITY SEWER PIPE SHALL CONFORM TO CSA SPECIFICATION B182.1 OR B182.2 (OR MOST RECENT REVISION) DR 35 WITH "LOCK-IN" RUBBER SEALING RING.
- 4.3 MANHOLES:
- 4.3.1 MANHOLES AND CATCHBASINS TO BE STANDARD DRAWINGS OPSD 700 SERIES AS NOTED.
- 4.3.2 ALL STORM MANHOLES TO BE BENCHED THROUGHOUT ON A VERTICAL PROJECTION TO SPRING LINE, AS PER STANDARD DRAWINGS, EXCEPT AS OTHERWISE NOTED.
- 4.4 BEDDING SEWER BEDDING TO BE TO STANDARD DRAWING OPSD 802.030 CLASS "B".
- 4.5 ALL PVC JOINTS AT MANHOLES SHALL BE DONE BY MEANS OF A MANHOLE ADAPTER.

5. <u>WATERMAIN</u>

- 5.1 PIPE WATERMAIN TO BE AWWA C900 (THICK WALL PIPE) MINIMUM CLASS 150 (DR 18). WATERMAIN IS TO BE STRAPPED WITH 14-GAUGE STRAND COPPER WIRE TO BE BROUGHT TO GRADE AT ALL MAINLINE VALVES AND HYDRANT SECONDARY VALVES, ALL SPLICES ARE TO BE DONE ABOVE GRADE OR USING A MOISTURE-PROOF SEAL. TOP OF WATERMAIN SHALL BE MINIMUM 1.7 M BELOW CENTRELINE OF ROAD
- 5.2 HYDRANTS AND VALVES AS PER STANDARDS DRAWING NO. OPSD 1105.010. ALL HYDRANTS ARE TO BE SELF-DRAINING (UNLESS IN AREAS WITH HIGH WATER TABLE). ALL HYDRANTS ARE TO BE EQUIPPED WITH ONE (1) FOUR-INCH (4") PUMPER PORT WITH MANUFACTURER'S "STORTZ" FITTING. APPROVED HYDRANTS ARE CANADA VALVE (CANVAL) - **ONLY**.
- 5.3 ALL BENDS AND TEES MUST BE OPSD 1103.010 AND 1103.020 AND BLOCKED TO UNDISTURBED GROUND. MECHANICAL RESTRAINING JOINTS ARE PERMITTED.
- 5.4 WHEN WATERMAIN DOES NOT HAVE SUFFICIENT COVER DUE TO OTHER APPURTENANCES, I.E. CATCHBASINS, ETC., THE WATERMAIN MUST BE INSULATED, AS PER OPSD - 1109.030
- 5.5 ALL MECHANICAL CONNECTIONS TO BE PROTECTED AGAINST CORROSION THROUGH THE USE OF CORROSION PROTECTION NUTS. NUTS TO BE USED ON 50% OF ALL T-BOLTS PER CONNECTION AND ARE TO BE USED IN ADDITION TO STANDARD FASTENING NUTS, **NOT** IN PLACE OF STANDARD NUTS.

6. SANITARY SEWERS - FORCEMAIN

- 6.1.1 ALL SEWER CONNECTIONS TO MANHOLES SHALL BE DONE BY MEANS OF A MANHOLE ADAPTER.
- 6.1.2 THE BEDDING MATERIAL SHALL EXTEND TO 300 MM ABOVE THE PIPE AND COMPACTION TESTS ARE REQUIRED BEFORE THE TRENCH IS BACKFILLED. BACKFILL TO BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR DENSITY.
- 6.2 MANHOLES:
- 6.2.1 MANHOLES TO BE STANDARD DRAWINGS OPSD 700 -SERIES.
- 6.2.2 ALL SANITARY MANHOLES TO BE PRE-BENCHED MONOLITHIC BASE, WITH SEALED CONNECTIONS FOR
- 6.2.3 BEDDING SEWER BEDDING TO BE TO STANDARD DRAWING OPSD 802.03, CLASS "B" (UNLESS OTHERWISE NOTED AND APPROVED).

PREPARED BY: **GHD**

P01 ISSUED FO	R SPA		R.	A / R.C	R.L	2024-01-23
No. Issue			С	hecked	Approve	d Date
Author S. HOL	LAND	Drafting Check	A. WRIGGLESWORTH	Project	Manager	R. LOVEDAY
Danissas B 4774	M / D CHEDVEWORL	Danism Charle	A. WRIGGLESWORTH	Designat	Disastas	M DI NIDO

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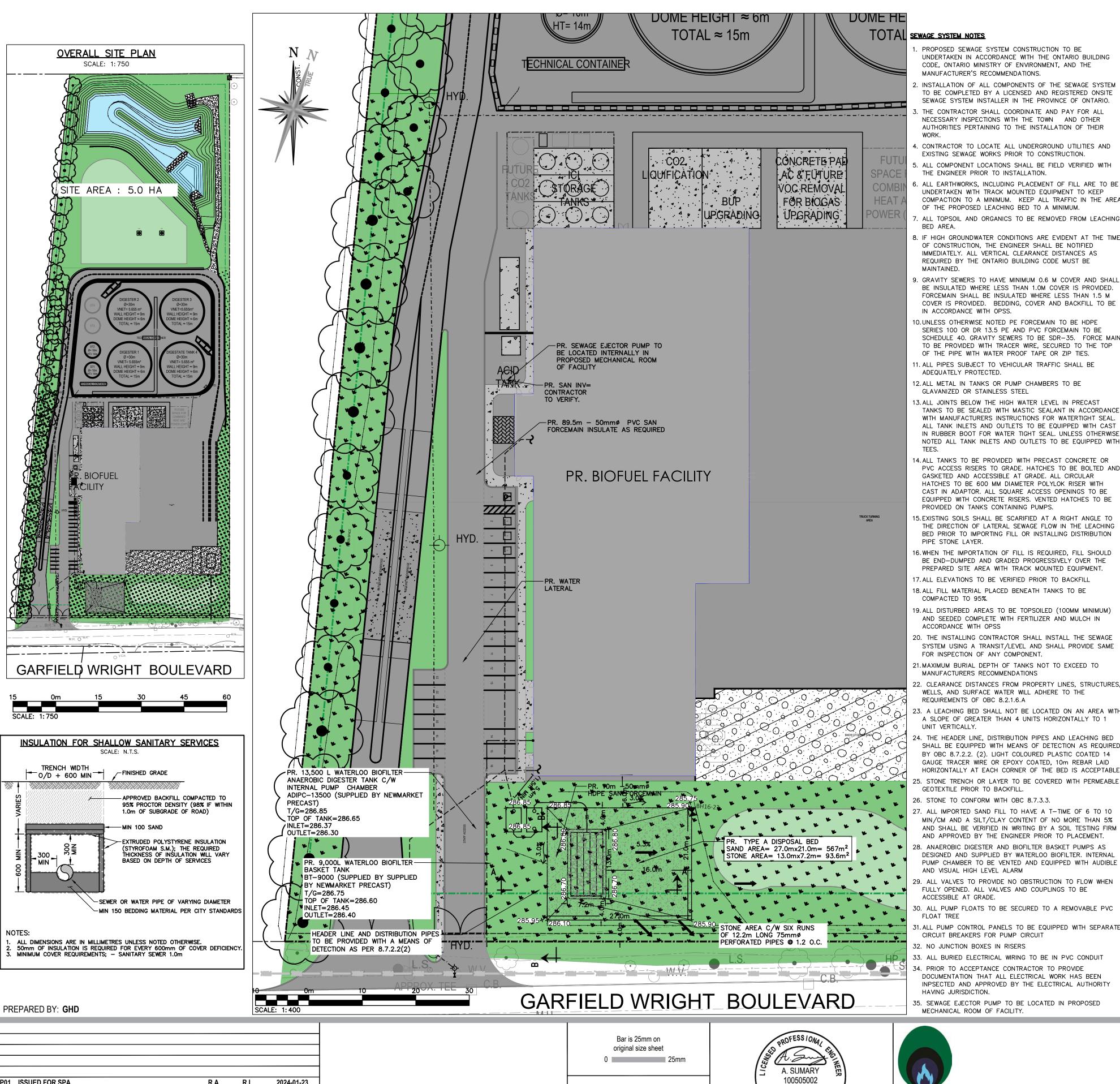
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Title SITE SERVICING NOTES

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2024-01-23



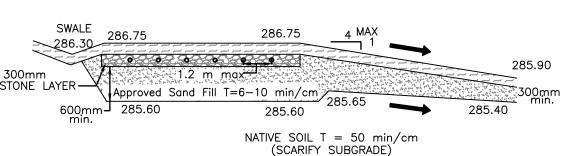
- PROPOSED SEWAGE SYSTEM CONSTRUCTION TO BE UNDERTAKEN IN ACCORDANCE WITH THE ONTARIO BUILDING CODE, ONTARIO MINISTRY OF ENVIRONMENT, AND THE MANUFACTURER'S RECOMMENDATIONS.
- INSTALLATION OF ALL COMPONENTS OF THE SEWAGE SYSTEM TO BE COMPLETED BY A LICENSED AND REGISTERED ONSITE SEWAGE SYSTEM INSTALLER IN THE PROVINCE OF ONTARIO. THE CONTRACTOR SHALL COORDINATE AND PAY FOR ALL
- NECESSARY INSPECTIONS WITH THE TOWN AND OTHER AUTHORITIES PERTAINING TO THE INSTALLATION OF THEIR
- . CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES AND EXISTING SEWAGE WORKS PRIOR TO CONSTRUCTION.
- . ALL COMPONENT LOCATIONS SHALL BE FIELD VERIFIED WITH THE ENGINEER PRIOR TO INSTALLATION.
- ALL EARTHWORKS, INCLUDING PLACEMENT OF FILL ARE TO BE UNDERTAKEN WITH TRACK MOUNTED EQUIPMENT TO KEEP COMPACTION TO A MINIMUM. KEEP ALL TRAFFIC IN THE AREA OF THE PROPOSED LEACHING BED TO A MINIMUM.
- . ALL TOPSOIL AND ORGANICS TO BE REMOVED FROM LEACHING BED AREA. B. IF HIGH GROUNDWATER CONDITIONS ARE EVIDENT AT THE TIME
- OF CONSTRUCTION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY. ALL VERTICAL CLEARANCE DISTANCES AS REQUIRED BY THE ONTARIO BUILDING CODE MUST BE MAINTAINED.
- 3. GRAVITY SEWERS TO HAVE MINIMUM 0.6 M COVER AND SHALL BE INSULATED WHERE LESS THAN 1.0M COVER IS PROVIDED. FORCEMAIN SHALL BE INSULATED WHERE LESS THAN 1.5 M COVER IS PROVIDED. BEDDING, COVER AND BACKFILL TO BE IN ACCORDANCE WITH OPSS.
- 10. UNLESS OTHERWISE NOTED PE FORCEMAIN TO BE HDPE SERIES 100 OR DR 13.5 PE AND PVC FORCEMAIN TO BE SCHEDULE 40. GRAVITY SEWERS TO BE SDR-35. FORCE MAIN TO BE PROVIDED WITH TRACER WIRE, SECURED TO THE TOP
- OF THE PIPE WITH WATER PROOF TAPE OR ZIP TIES. 1. ALL PIPES SUBJECT TO VEHICULAR TRAFFIC SHALL BE
- 12. ALL METAL IN TANKS OR PUMP CHAMBERS TO BE GLAVANIZED OR STAINLESS STEEL
- 3. ALL JOINTS BELOW THE HIGH WATER LEVEL IN PRECAST TANKS TO BE SEALED WITH MASTIC SEALANT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS FOR WATERTIGHT SEAL. ALL TANK INLETS AND OUTLETS TO BE EQUIPPED WITH CAST IN RUBBER BOOT FOR WATER TIGHT SEAL. UNLESS OTHERWISE NOTED ALL TANK INLETS AND OUTLETS TO BE EQUIPPED WITH
- 4. ALL TANKS TO BE PROVIDED WITH PRECAST CONCRETE OR PVC ACCESS RISERS TO GRADE. HATCHES TO BE BOLTED AND GASKETED AND ACCESSIBLE AT GRADE. ALL CIRCULAR HATCHES TO BE 600 MM DIAMETER POLYLOK RISER WITH CAST IN ADAPTOR. ALL SQUARE ACCESS OPENINGS TO BE EQUIPPED WITH CONCRETE RISERS. VENTED HATCHES TO BE PROVIDED ON TANKS CONTAINING PUMPS.
- 5.EXISTING SOILS SHALL BE SCARIFIED AT A RIGHT ANGLE TO THE DIRECTION OF LATERAL SEWAGE FLOW IN THE LEACHING BED PRIOR TO IMPORTING FILL OR INSTALLING DISTRIBUTION PIPE STONE LAYER.
- 16. WHEN THE IMPORTATION OF FILL IS REQUIRED, FILL SHOULD BE END-DUMPED AND GRADED PROGRESSIVELY OVER THE PREPARED SITE AREA WITH TRACK MOUNTED EQUIPMENT.
- 18. ALL FILL MATERIAL PLACED BENEATH TANKS TO BE
- COMPACTED TO 95%. 19. ALL DISTURBED AREAS TO BE TOPSOILED (100MM MINIMUM)
- ACCORDANCE WITH OPSS 20. THE INSTALLING CONTRACTOR SHALL INSTALL THE SEWAGE SYSTEM USING A TRANSIT/LEVEL AND SHALL PROVIDE SAME
- FOR INSPECTION OF ANY COMPONENT. 21. MAXIMUM BURIAL DEPTH OF TANKS NOT TO EXCEED TO MANUFACTURERS RECOMMENDATIONS
- WELLS, AND SURFACE WATER WILL ADHERE TO THE REQUIREMENTS OF OBC 8.2.1.6.A 23. A LEACHING BED SHALL NOT BE LOCATED ON AN AREA WITH
- A SLOPE OF GREATER THAN 4 UNITS HORIZONTALLY TO 1 UNIT VERTICALLY. THE HEADER LINE, DISTRIBUTION PIPES AND LEACHING BED
- SHALL BE EQUIPPED WITH MEANS OF DETECTION AS REQUIRED BY OBC 8.7.2.2. (2). LIGHT COLOURED PLASTIC COATED 14 GAUGE TRACER WIRE OR EPOXY COATED, 10m REBAR LAID HORIZONTALLY AT EACH CORNER OF THE BED IS ACCEPTABLE
- STONE TRENCH OR LAYER TO BE COVERED WITH PERMEABLE GEOTEXTILE PRIOR TO BACKFILL. . STONE TO CONFORM WITH OBC 8.7.3.3.
- ALL IMPORTED SAND FILL TO HAVE A T-TIME OF 6 TO 10 MIN/CM AND A SILT/CLAY CONTENT OF NO MORE THAN 5% AND SHALL BE VERIFIED IN WRITING BY A SOIL TESTING FIRM AND APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.
- ANAEROBIC DIGESTER AND BIOFILTER BASKET PUMPS AS DESIGNED AND SUPPLIED BY WATERLOO BIOFILTER. INTERNAL PUMP CHAMBER TO BE VENTED AND EQUIPPED WITH AUDIBLE AND VISUAL HIGH LEVEL ALARM
- ACCESSIBLE AT GRADE. . ALL PUMP FLOATS TO BE SECURED TO A REMOVABLE PVC
- 11. ALL PUMP CONTROL PANELS TO BE EQUIPPED WITH SEPARATE CIRCUIT BREAKERS FOR PUMP CIRCUIT
- 33. ALL BURIED ELECTRICAL WIRING TO BE IN PVC CONDUIT
- 34. PRIOR TO ACCEPTANCE CONTRACTOR TO PROVIDE DOCUMENTATION THAT ALL ELECTRICAL WORK HAS BEEN INPSECTED AND APPROVED BY THE ELECTRICAL AUTHORITY HAVING JURISDICTION.

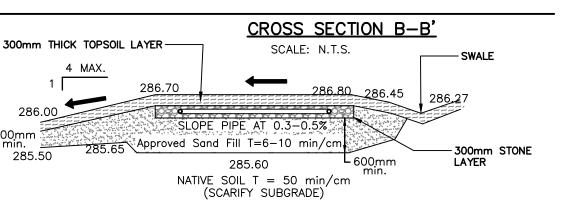
Jan. 16-2

35. SEWAGE EJECTOR PUMP TO BE LOCATED IN PROPOSED MECHANICAL ROOM OF FACILITY.

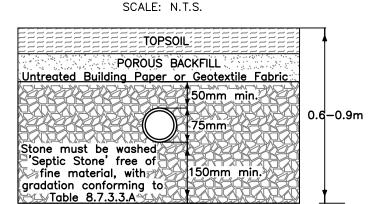
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CROSS SECTION A-A' SCALE: N.T.S.



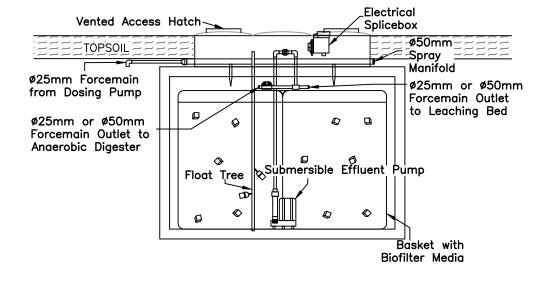


DISTRIBUTION LAYER DETAIL

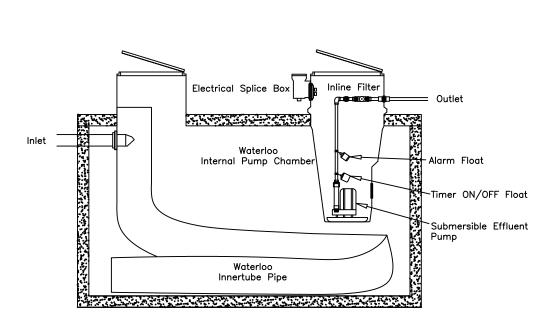


<u>BASKETS IN CONCRETE TANK DETAIL</u>

SCALE: N.T.S.



ANAEROBIC DIGESTER C/W INTERNAL PUMP CHAMBER DETAIL



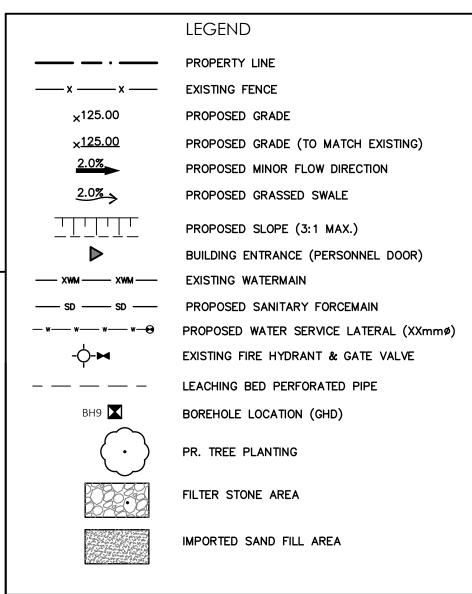
ON-SITE SEWAGE SYSTEM DESIGN NOTES (REFER TO ONSITE SEWAGE SYSTEM DESIGN MEMO BY GHD FOR MATERIAL, CONSTRUCTION, INSPECTION AND OTHER DETAILS) PEAK DAILY SEWAGE Q= 4,500 L/DAY FLOW RATE SOIL PERCOLATION RATE T = 50 min/cm (ESTIMATED BY GHD) WATERLOO BIOFILTER MODEL AD-BA45 PROPOSED TREATMENT UNIT | RATED FOR 4,500 L/DAY MIN FOAM VOLUME 6.3 m³ MIN. ANEROBIC DIGESTER SIZE = 8,496 L MIN. INNER TUBE VOLUME SIZE = 900 L MIN PUMP CHAMBER WORKING CAPACITY = 3,150 TYPE A DISPERSAL BED MINIMUM SIZE $=4,500/50=4,500/50=90m^2$ STONE AREA PROVIDED = $13.0M \times 7.2. = 93.6m^2$ TYPE A DISPERSAL BED MINIMUM SIZE = $QT/400=4,500*50/400=563m^2$ PROVIDED = $567m^2$ SAND AREA

CALL BEFORE YOU DIG

EAST GWILLIMBURY

KEY PLAN

THE LOCATION OF SERVICES ON THIS DRAWING ARE ONLY APPROXIMATE AND BASED ON SURFACE FEATURES LOCATED AT THE TIME OF THE TOPOGRAPHIC SURVEY. PRIOR TO ANY CONSTRUCTION IT IS THE RESPONSIBILITY OF THE CONTRACTOR/BUILDER TO ENSURE THE EXACT LOCATION OF ALL UTILITIES.



C	ISSUED FOR REVIEW	2024/JAN/16
В	ISSUED FOR REVIEW	2024/JAN/09
Α	ISSUED FOR COORDINATION	2023/OCT/24
No.	ISSUE / REVISION	YYYY/MMM/DD

SURVEY NOTES

EXISTING TOPOGRAPHY AND SITE FEATURES SURVEYED MARCH 15, 2023 BY SCHAEFFER DZALDOV PURCELL LTD. COORDINATE ZONE UTM ZONE 17, NAD 83 (CSRS 2010) DRAWING FILE: TOPOGRAPHICAL SURVEY 23-010 MAR 15-23.DWG

DRAWING NOTES

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** ONSITE SEPTIC SYSTEM DESIGN

12605345-GHD-10-32-DRG-CI-D10

Project Director M. DI NIRO Path and Filename: N:\CA\Waterloo\Projects\662\12605345\Digital_Design\ACAD\Sheets\Convertus Biogas Facility\CI\12605345-GHD-10-32-DRG-CI-D101.dwg

Design Check A. SUMARY

P01 ISSUED FOR SPA

Author S. ARMSTRONG

Designer A. MARSHALL

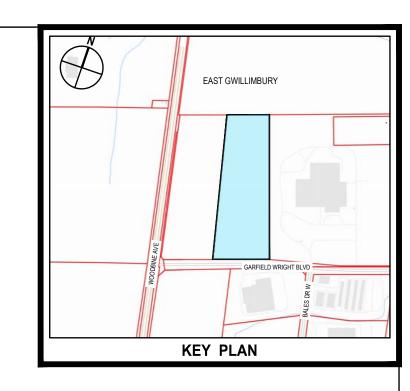
Drafting Check L. CAMPANINI Project Manager R. LOVEDAY

2024-01-23

Date

R.A. R.L. Checked Approved





— – — PROJECT LOT LIMIT ----- LEGAL LOT LIMIT - 282 ----- MAJOR CONTOUR (1.0m INTERVAL) MINOR CONTOUR (0.2m INTERVAL) -----x ------x FENCE LINE ROAD (APPROXIMATE) — — E — OVERHEAD ELECTRIC --- W--- WATERMAIN TREE LINE TREE ○ M.H. MAINTENANCE HOLE C.B. CATCHBASIN -<mark></mark>→ HYD. FIRE HYDRANT WATER VALVE VALVE CHAMBER LIGHT STANDARD HYDRO POLE **HYDRO POLE & LIGHT** HYDRO POLE & TRANSFORMER CATCHMENT BOUNDARY E101 CATCHMENT ID 5.0ha CATCHMENT AREA IN HECTARES

<u>LEGEND:</u>

SOURCE & BENCHMARKS

LEGAL SURVEY "PART 1, BLOCK 1, PLAN 65M-3843, TOWN OF EAST GWILLIMBURY, REGIONAL MUNICIPALITY OF YORK, PROVINCE OF ONTARIO", AND EXISTING TOPOGRAPHY AND SITE FEATURES, COMPILED BY SCHAEFFER DZALDOV PURCELL LTD (OLS), CONCORD, ONTARIO. SDP JOB 23-009 & 23-010, FILE "G2-M3843-BLOCK-1", 2023-MARCH. UTM ZONE 17, NAD-83 (CSRS-2010); CGVD-1928:1978, STATION 00820118077, BENCHMARK, ELEVATION 290.976 METRES GEODETIC, LOCATED AT THE INTERCHANGE OF PROVINCIAL HWY-404 AND YORK REGION ROAD-31 (DAVIS DRIVE), APPROXIMATELY 1400-METRES SOUTH-WEST OF SUBJECT

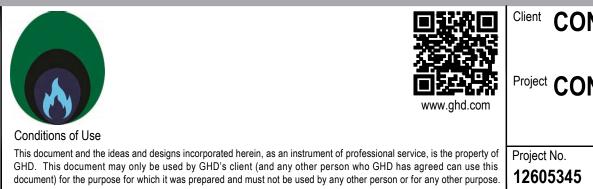
ADDITIONAL TOPOGRAPHY AND SITE FEATURES SURVEY, NORTH-EAST / EAST OF SITE LIMITS, COMPILED BY GHD LTD, WATERLOO, ONTARIO. GHD JOB 12605345, FILE "12605345(SOURCE)V001 FILE 2 EXISTING CONDITIONS", 2023-NOVEMBER. UTM ZONE 17, NAD-83 (CSRS-2010), CGVD-1928:1978, YORK REGION VERTICAL CONTROL BENCHMARK 56-131, TABLET, ELEVATION 284.55, LOCATED 21.8 METRES SOUTH AND 82.4 METRES WEST OF THE CENTRELINE OF THE INTERSECTION OF YORK REGION ROAD-31 (DAVIS DRIVE), AND YORK REGION ROAD-8 (WOODBINE AVENUE), APPROXIMATELY 500-METRES SOUTH-WEST OF SUBJECT SITE.

PREPARED BY: **GHD**

P03 ISSUED FOR SPA D.S R.L 2024-01-23 P02 FOR PERMIT SUBMISSION 2023-07-31 P01 FOR CLIENT REVIEW 2023-07-28 D.S R.L Checked Approved Date Drafting Check A. WRIGGLESWORTH Project Manager R. LOVEDAY Author S. HOLLAND Designer L. SPITERI Design Check D. SINGARAJA Project Director M. DI NIRO

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Client CONVERTUS YORK BIOFUEL LTD.

roject CONVERTUS BIOFUEL FACILITY

2024-01-24

PLAN AND CATCHMENTS

1:1000

EXISTING CONDITIONS

NOT FOR CONSTRUCTION



LEGEND: — – — PROJECT LOT LIMIT — – — SETBACK LIMIT — — — ADJACENT LOT LEGAL LIMIT — 282.0 — MAJOR CONTOUR (1.0m INTERVAL) MINOR CONTOUR (0.20m INTERVAL) ----x ----x FENCE LINE ROAD (APPROXIMATE) — — E — OVERHEAD ELECTRIC --- W --- WATERMAIN TREE MAINTENANCE HOLE CATCHBASIN FIRE HYDRANT WATER VALVE VALVE CHAMBER LIGHT STANDARD HYDRO POLE **HYDRO POLE & LIGHT** HYDRO POLE & TRANSFORMER PROPOSED CATCHBASIN ■ C.B. PROPOSED DOUBLE CATCHBASIN PROPOSED DOUBLE CATCHBASIN MAINTENANCE HOLE PROPOSED CATCHBASIN MAINTENANCE HOLE PROPOSED MAINTENANCE HOLE PROPOSED MAINTENANCE HOLE WITH 2 ACCESS COVERS PROPOSED TREE PROPOSED EDGE OF ASPHALT PROPOSED ROAD MARKINGS PROPOSED CURB PROPOSED SWALE PROPOSED FENCE LINE --- PROPOSED STORM SEWER PROPOSED PERFORATED GROUNDWATER LATERAL COLLECTOR --- PROPOSED PERFORATED GROUNDWATER MAINLINE COLLECTOR CATCHMENT BOUNDARY PROPOSED BUILDING PROPOSED HARD SURFACE PROPOSED GRAVEL AREA PROPOSED LANDSCAPE SURFACE PROPOSED CONCRETE PROPOSED GRANULAR (SNOW STORAGE AREA) PROPOSED RIP-RAP CATCHMENT ID — CATCHMENT AREA IN HECTARES MAJOR STORM ROUTE MINOR FLOW ROUTE

NOT FOR CONSTRUCTION

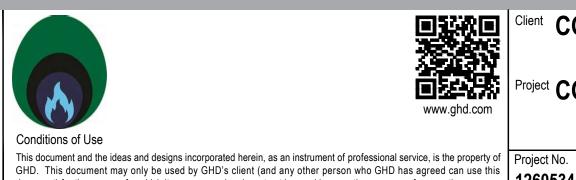
EAST GWILLIMBURY

KEY PLAN

P03 ISSUED FOR SPA D.S R.L 2024-01-23 P02 FOR PERMIT SUBMISSION 2023-07-31 P01 FOR CLIENT REVIEW 2023-07-28 D.S R.L Checked Approved Date Author S. HOLLAND Drafting Check A. WRIGGLESWORTH Project Manager R. LOVEDAY Design Check D. SINGARAJA Project Director M. DI NIRO Designer L. SPITERI

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Diect CONVERTUS BIOFUEL FACILITY

2024-01-23

Title PROPOSED CONDITIONS PLAN AND CATCHMENTS

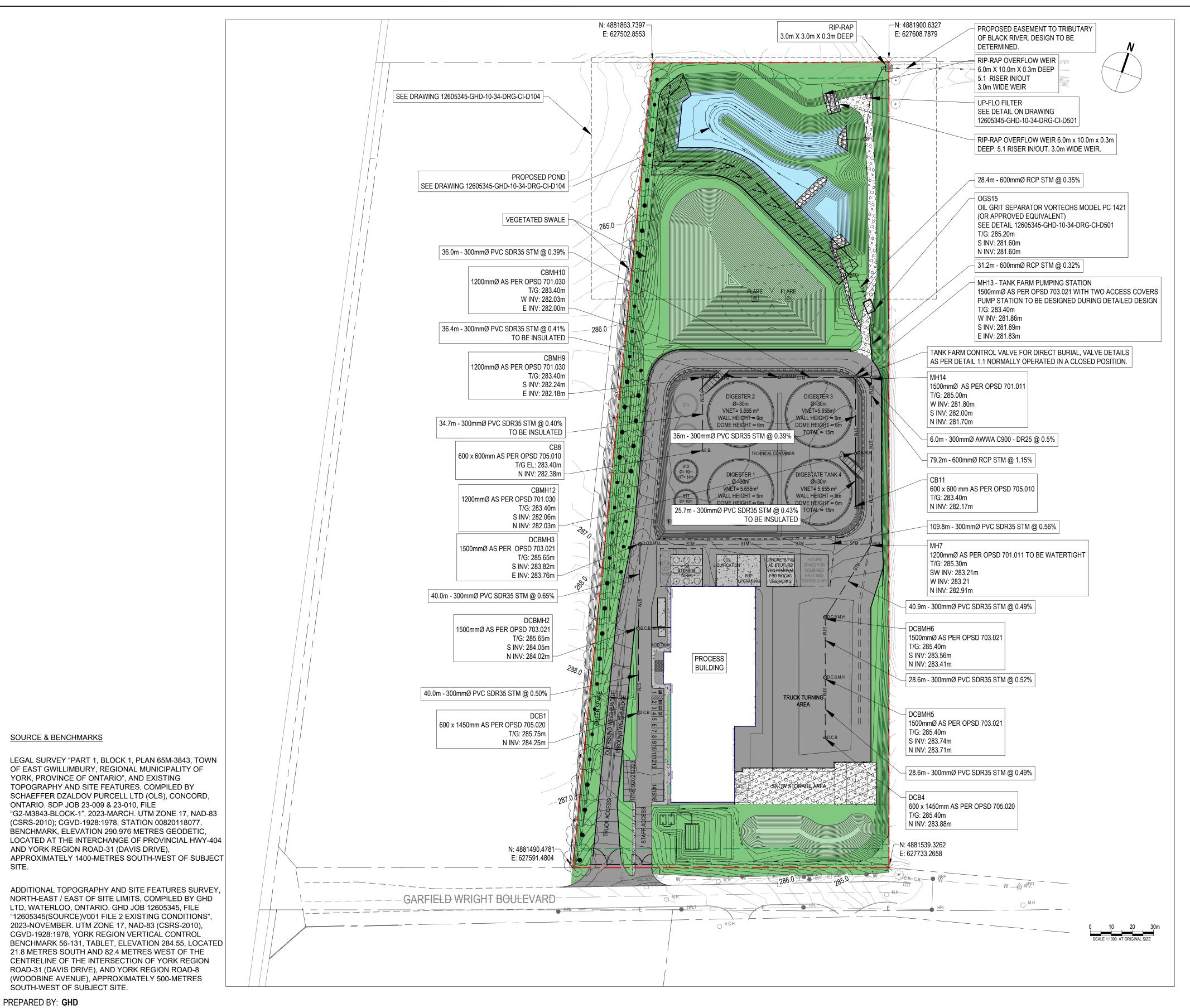
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12605345-GHD-10-34-DRG-CI-D102

Plotted By: Spencer Holland Plot Date: 24 January 2024 - 9:58 AM

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— – — PROJECT LOT LIMIT — – — SETBACK LIMIT — — ADJACENT LOT LEGAL LIMIT — 282.0 — MAJOR CONTOUR (1.0m INTERVAL) MINOR CONTOUR (0.20m INTERVAL) FENCE LINE ROAD ROAD (APPROXIMATE) — — E — OVERHEAD ELECTRIC WATERMAIN (•) TREE MAINTENANCE HOLE C.B. CATCHBASIN FIRE HYDRANT WATER VALVE VALVE CHAMBER LIGHT STANDARD HYDRO POLE HYDRO POLE & LIGHT HYDRO POLE & TRANSFORMER PROPOSED CATCHBASIN ■ C.B. PROPOSED DOUBLE CATCHBASIN ■D.C.B. PROPOSED DOUBLE CATCHBASIN MAINTENANCE HOLE D.C.B. M.H PROPOSED CATCHBASIN MAINTENANCE HOLE PROPOSED MAINTENANCE HOLE PROPOSED MAINTENANCE HOLE WITH 2 ACCESS COVERS PROPOSED TREE PROPOSED EDGE OF ASPHALT PROPOSED ROAD MARKINGS _ _ _ _ _ _ _ _ PROPOSED CURB PROPOSED SWALE PROPOSED FENCE LINE — — STM — PROPOSED STORM SEWER PROPOSED PERFORATED GROUNDWATER LATERAL COLLECTOR CATCHMENT BOUNDARY PROPOSED BUILDING PROPOSED HARD SURFACE PROPOSED GRAVEL AREA PROPOSED LANDSCAPE SURFACE

PROPOSED CONCRETE

PROPOSED RIP-RAP

PROPOSED GRANULAR (SNOW STORAGE AREA)

LEGEND:

NOT FOR CONSTRUCTION

EAST GWILLIMBURY

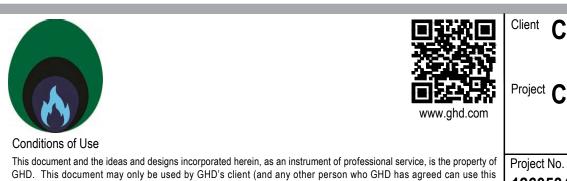
KEY PLAN

P03 ISSUED FOR SPA			D.S	R.L	2024-01-23
P02 FOR PERMIT SUBMISSION			D.S	R.L	2023-07-31
P01 FOR CLIENT REVIEW			D.S	R.L	2023-07-28
No. Issue			Checked	Approve	d Date
Author S. HOLLAND	Drafting Check	A. WRIGGLESWOR	RTH Project	Manager	R. LOVEDAY
Designer L. SPITERI	Design Check	D. SINGARAJA	Project	Director	M. DI NIRO

Plot Date: 24 January 2024 - 9:58 AM

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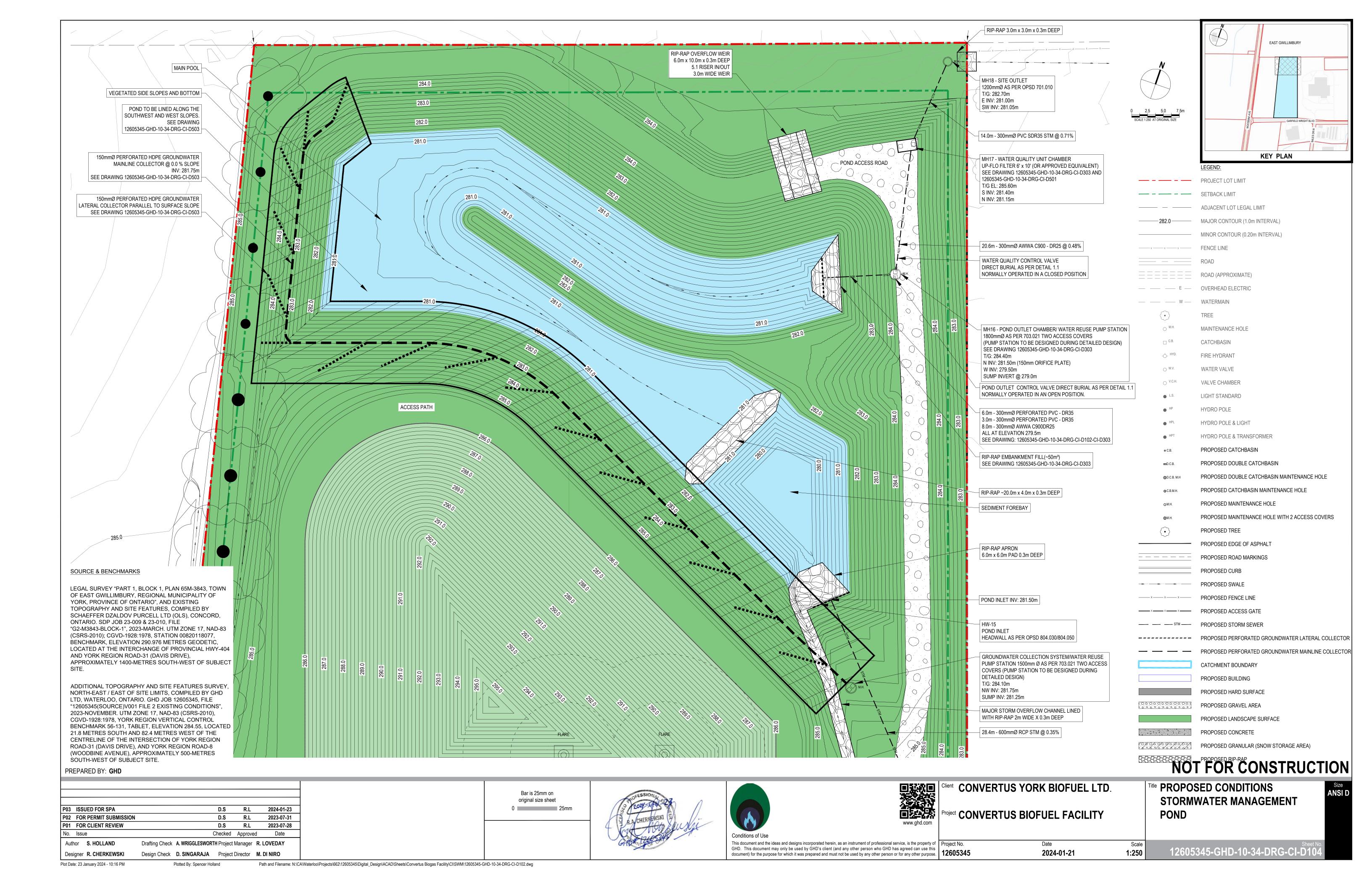
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2024-01-21

Title PROPOSED CONDITIONS PLAN

Scale 1:1000





Plot Date: 24 January 2024 - 10:02 AM

P01 FOR CLIENT REVIEW

Author S. HOLLAND

Designer L. SPITERI

Plotted By: Spencer Holland

Drafting Check A. WRIGGLESWORTH Project Manager R. LOVEDAY

Design Check D. SINGARAJA Project Director M. DI NIRO

D.S R.L

Checked Approved

2023-07-28

Date

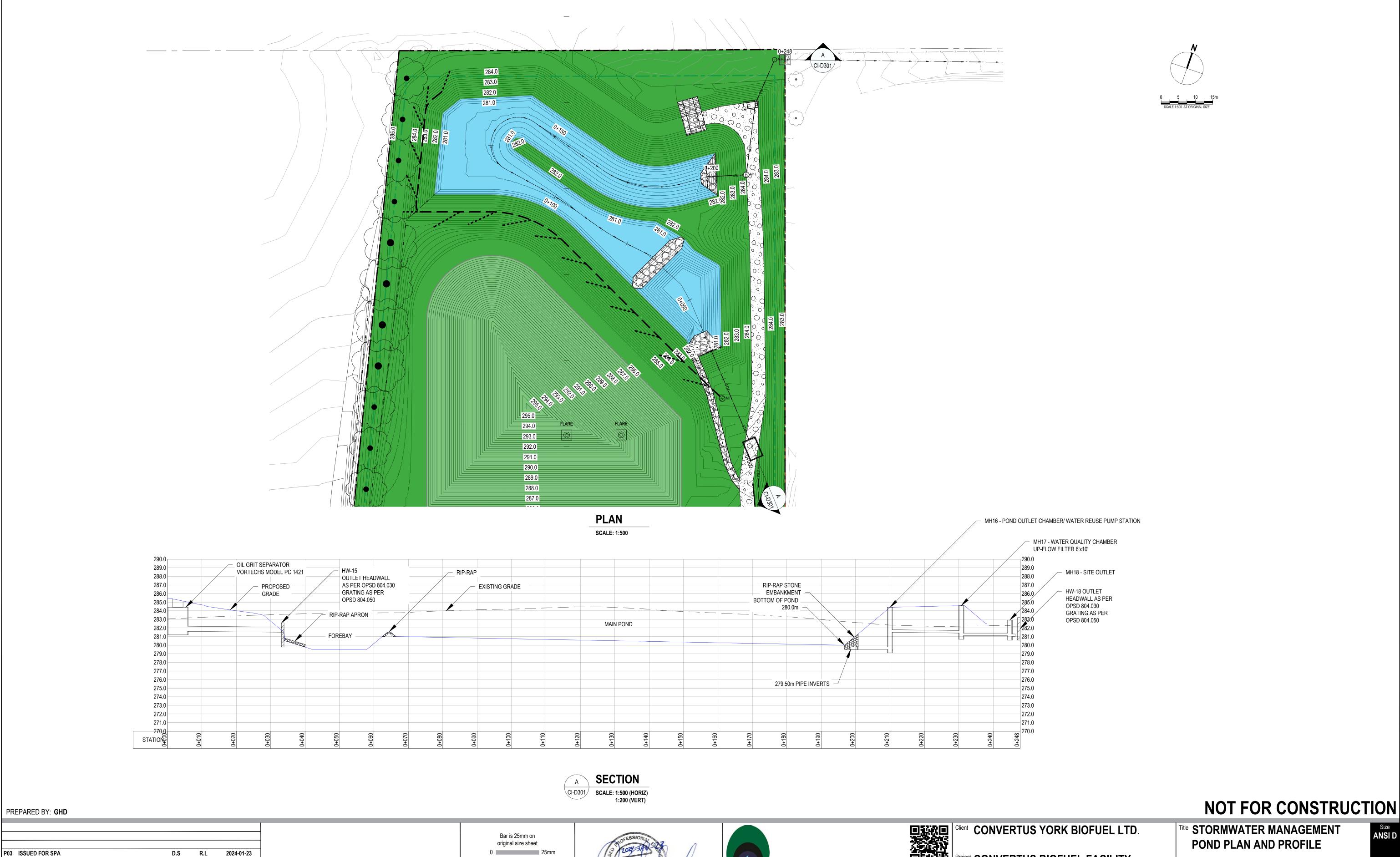
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2024-01-23

Scale



Designer R. CHERKEWSKI Plot Date: 23 January 2024 - 9:45 PM

P02 FOR PERMIT SUBMISSION

P01 FOR CLIENT REVIEW

Author S. HOLLAND

Plotted By: Spencer Holland

Drafting Check A. WRIGGLESWORTH Project Manager R. LOVEDAY

Design Check D. SINGARAJA Project Director M. DI NIRO

2023-07-31

Date

D.S R.L 2023-07-28

Checked Approved

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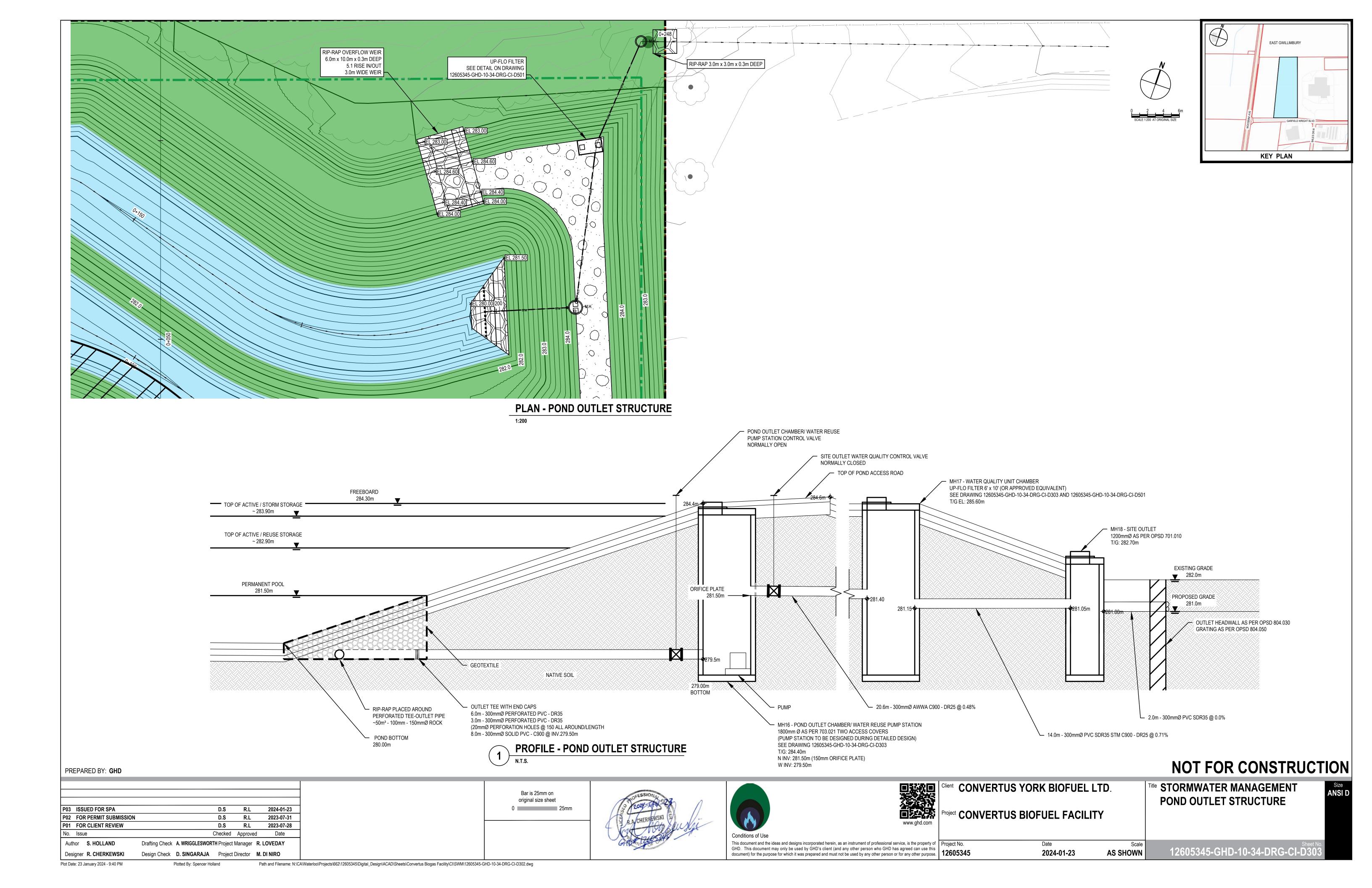
roject CONVERTUS BIOFUEL FACILITY

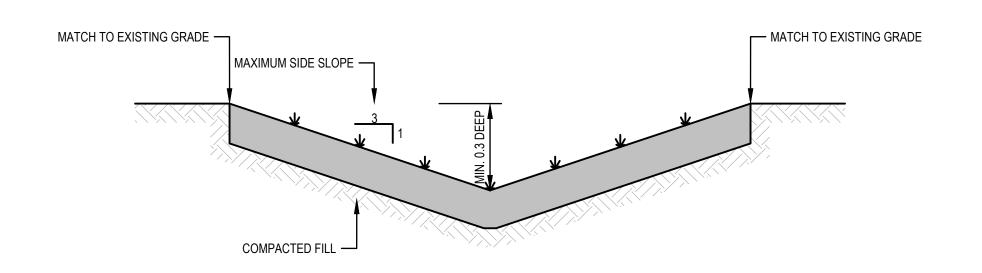
2024-01-23

Title STORMWATER MANAGEMENT POND PLAN AND PROFILE

Scale

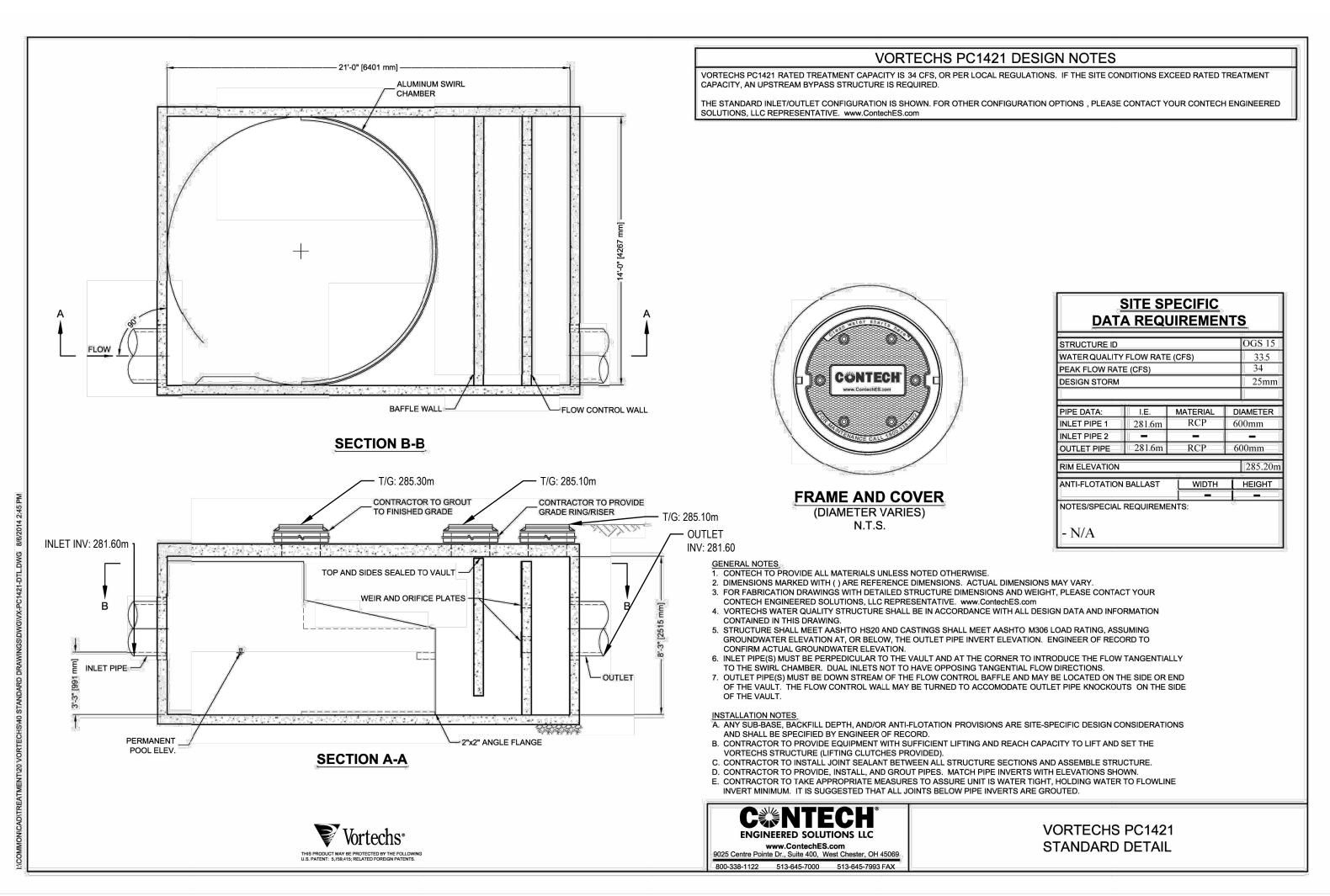
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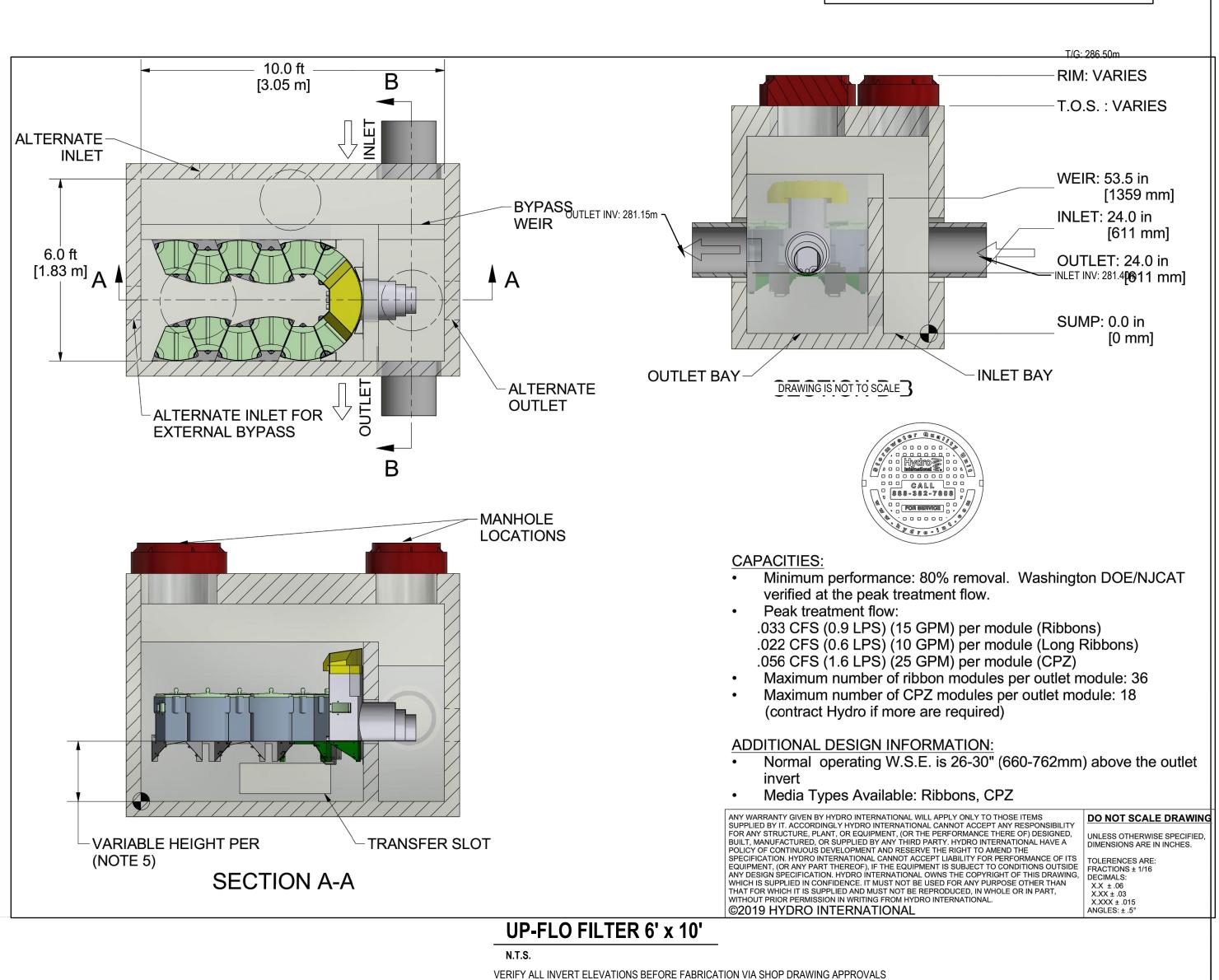
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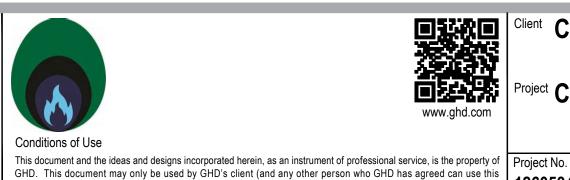


PREPARED BY: GHD

P03 ISSUED FOR SPA 2024-01-22 P02 FOR PERMIT SUBMISSION 2023-07-31 P01 FOR CLIENT REVIEW 2023-07-28 D.S R.L Checked Approved Date Author S. HOLLAND Drafting Check A. WRIGGLESWORTH Project Manager R. LOVEDAY Designer L. SPITERI Design Check D. SINGARAJA Project Director M. DI NIRO

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Title STORMWATER DETAILS Client CONVERTUS YORK BIOFUEL LTD.

CONTRACTOR/FABRICATOR TO FLIP PLANVIEW ORIENTATION TO MATCH SITE LAYOUT REQUIREMENTS

Scale 12605345 2024-01-24 **AS SHOWN**

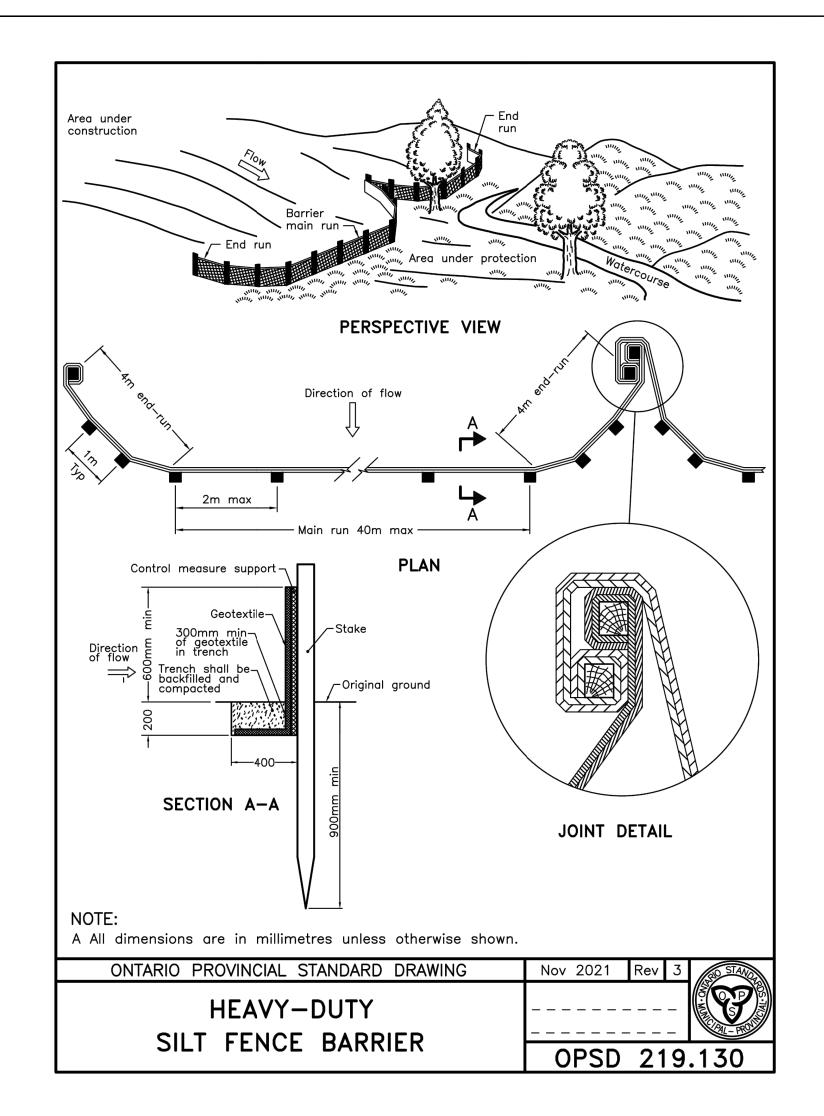
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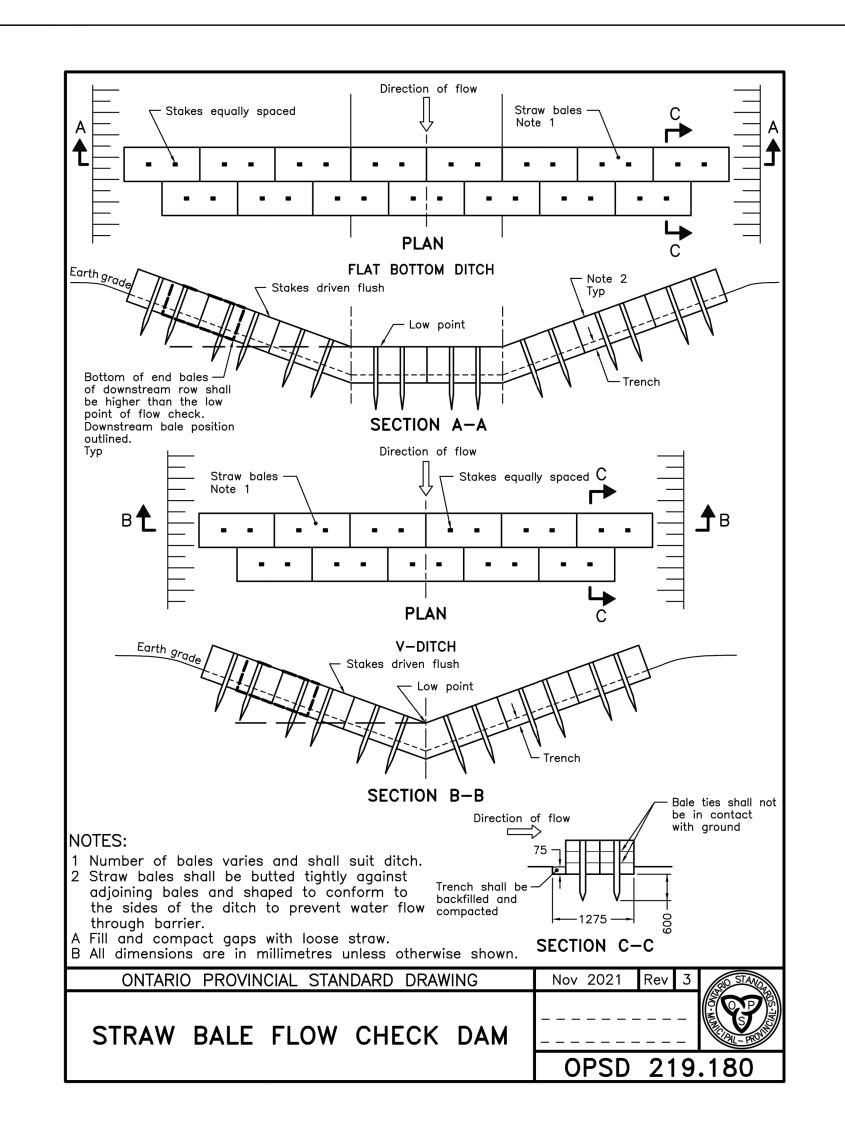
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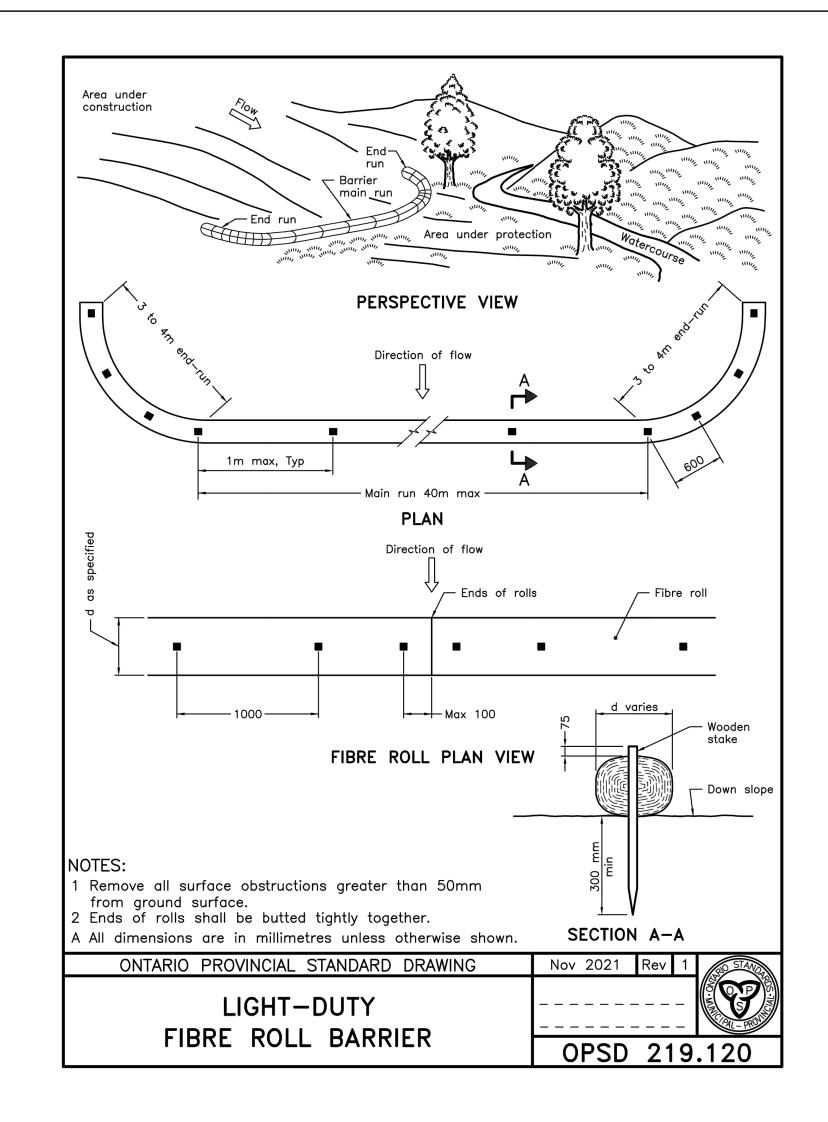
REQUIRED TO MEET FINAL GRADE

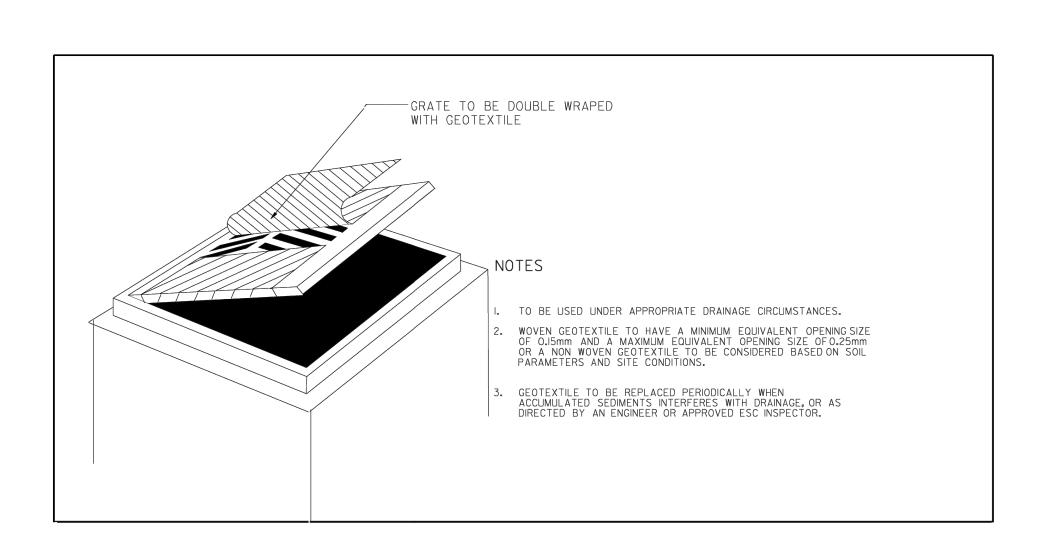
1.1 TYPICAL BURIED GATE VALVE

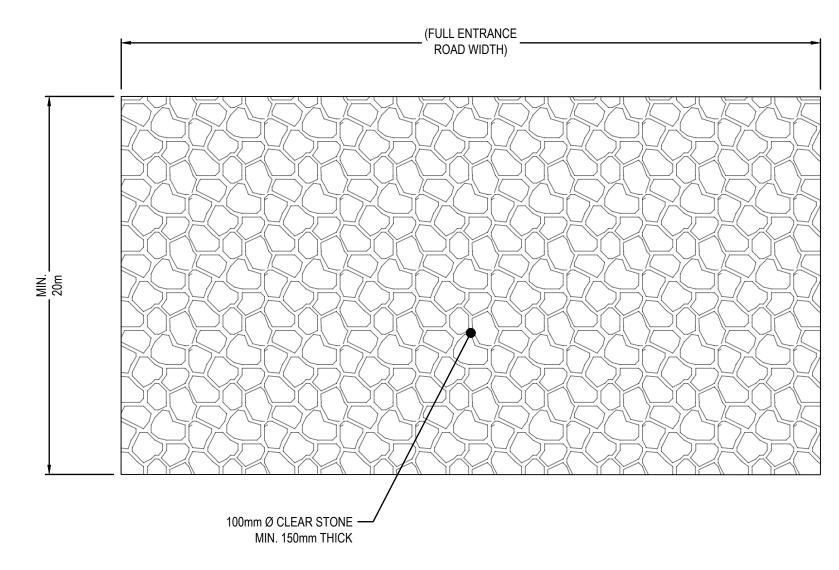
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MUD MAT (TYPICAL)

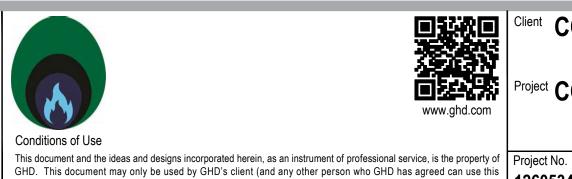
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P03	ISSUED FOR SPA			D.S	R.L	2024-01-22
P02	FOR PERMIT SUBMISSION	N		D.S	R.L	2023-07-31
P01	FOR CLIENT REVIEW			D.S	R.L	2023-07-28
No.	Issue			Checked	Approved	l Date
Auth	nor S. HOLLAND	Drafting Check	A. WRIGGLESWOR	TH Project	Manager	R. LOVEDAY
Desi	igner L. SPITERI	Design Check	D. SINGARAJA	Project	Director	M. DI NIRO

Plotted By: Spencer Holland

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Client CONVERTUS YORK BIOFUEL LTD.

pject CONVERTUS BIOFUEL FACILITY

2024-01-23

Title STORMWATER EROSION AND SEDIMENT CONTROL DETAILS

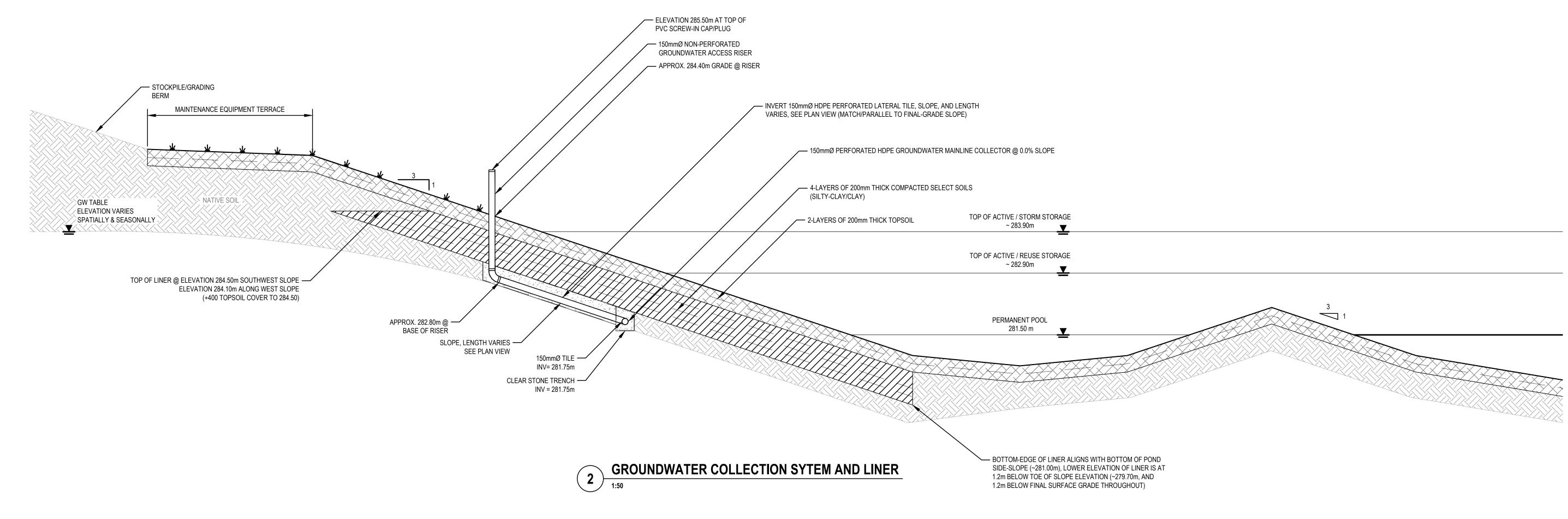
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PREPARED BY: **GHD**



NOTES - GROUNDWATER COLLECTION SYSTEM

- EXCAVATE FOR LINER, SCARIFY SUBGRADE 200mm DEEP, REMOVE DELETERIOUS MATERIALS (ORGANIC. FLOWING NET. SOFT SUBGRADE), RE-COMPACT SUBGRADE.
- 2. SUB-EXCAVATE/TRENCH FOR 450x450 "FRENCH DRAIN", INSTALLED WHOLLY BELOW UNDERSIDE OF LINER; LINE SUB-EXCAVATION TRENCH WITH MEDIUM-DUTY GEOTEXTILE CLOTH, HAVING "EOS" SUITABLE FOR NATIVE SOILS SEPARATION (FIELD SAMPLE CONFIRMATION REQUIRED OR SPECIFIC OPENING-SIZE SELECTION); INVERT CLEARSTONE TRENCH AT 281.60m (LEVEL); UTILIZE DRY-SCREENED CLEAR STONE (NOMINALLY 20Ø)
- 3. INVERT 150mmØ HDPE PERFORATED MAINLINE TILE AT 281.75m (LEVEL); CENTER HDPE TILE 150mm ABOVE BASE OF TRENCH, COVER TO MINIMUM 150MM OVER TOP OF TILE, WRAP/CLOSE TRENCH WITH LOWER-SIDE GEOTEXTILE FLAP FIRST, AND UPPER-SIDE FLAP OVER LOWER FLAP TO EXCLUDE ENTRY OF FINES.
- 4. CONNECT ALL LATERALS UTILIZING SOCKET-"WYE" FITTINGS ARRANGED TO ALLOW FOR RODDING, FLUSHING, INSPECTION FROM UPSTREAM TO DOWNSTREAM DIRECTION; SEAL ALL CONNECTIONS WITH MINIMUM TWO LAYERS GEOTEXTILE WRAP, MINIMUM 1 M WIDTH.
- 5. LATERAL LINES SIMILAR CONSTRUCTION AS MAINLINE, TRENCH DEPTH AND SLOPE ALIGNS PARALLEL TO FINISHED SURFACE; PIPING PERFORATED TO RISER-ELBOW,
- SOLID THROUGH ELBOW (45DEG FITTING) AND RISER. BACKFILL AROUND RISER WITH LINER MATERIAL TO TOPSOIL LAYER. 6. PLACE SELECT-SITE-SOILS (CLAY, SILTY-CLAY, FINE-SILT) IN MAXIMUM 200MM THICK COMPACTED LAYERS, TO 98-PERCENT STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD), UTILIZING VIBRATORY SHEEPSFOOT/PAD COMPACTOR; KNEED SUBSEQUENT LAYERS INTO LOWER LAYERS, MINIMUM 4-LINER LAYERS PLACED ON
- RECOMPACTED SCARIFIED SUBGRADE. 7. PLACE TOPSOIL IN MINIMUM TWO LAYERS TO A MAXIMUM OF 200MM COMPACTED THICKNESS EACH LAYER; LOWER TOPSOIL LAYER VIBRATORY COMPACTED TO 95-PERCENT SPMDD, UTILIZING SHEEPSFOOT/PAD COMPACTOR; KNEED INTO LOWER LAYERS; UPPER TOPSOIL LAYER TO BE COMPACTED UTILIZING DEAD-WEIGHT ONLY OF SHEEPSFOOT/PAD COMPACTOR (NO VIBRATION, MAKE MINIMUM 4-PASSES, PAD-DIMPLES USED TO HOLD SEED UNTIL GERMINATION); TOPSOIL FOR BALANCE OF POND AREA AND STOCKPILE PLACED SIMILARLY.

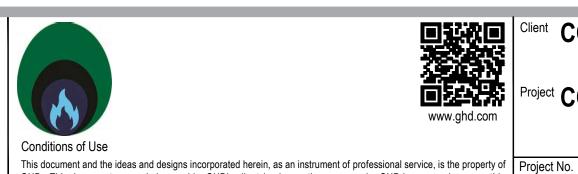
PREPARED BY: **GHD**

Plot Date: 23 January 2024 - 10:01 PM

P01 ISSUED FOR SPA D.S R.L 2024-01-23 Checked Approved Drafting Check A. WRIGGLESWORTH Project Manager R. LOVEDAY Author S. HOLLAND Designer R. CHERKEWSKI Design Check D. SINGARAJA Project Director M. DI NIRO

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Title GROUNDWATER COLLECTION SYSTEM AND LINER DETAIL

Scale 2024-01-23 **AS SHOWN**

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