



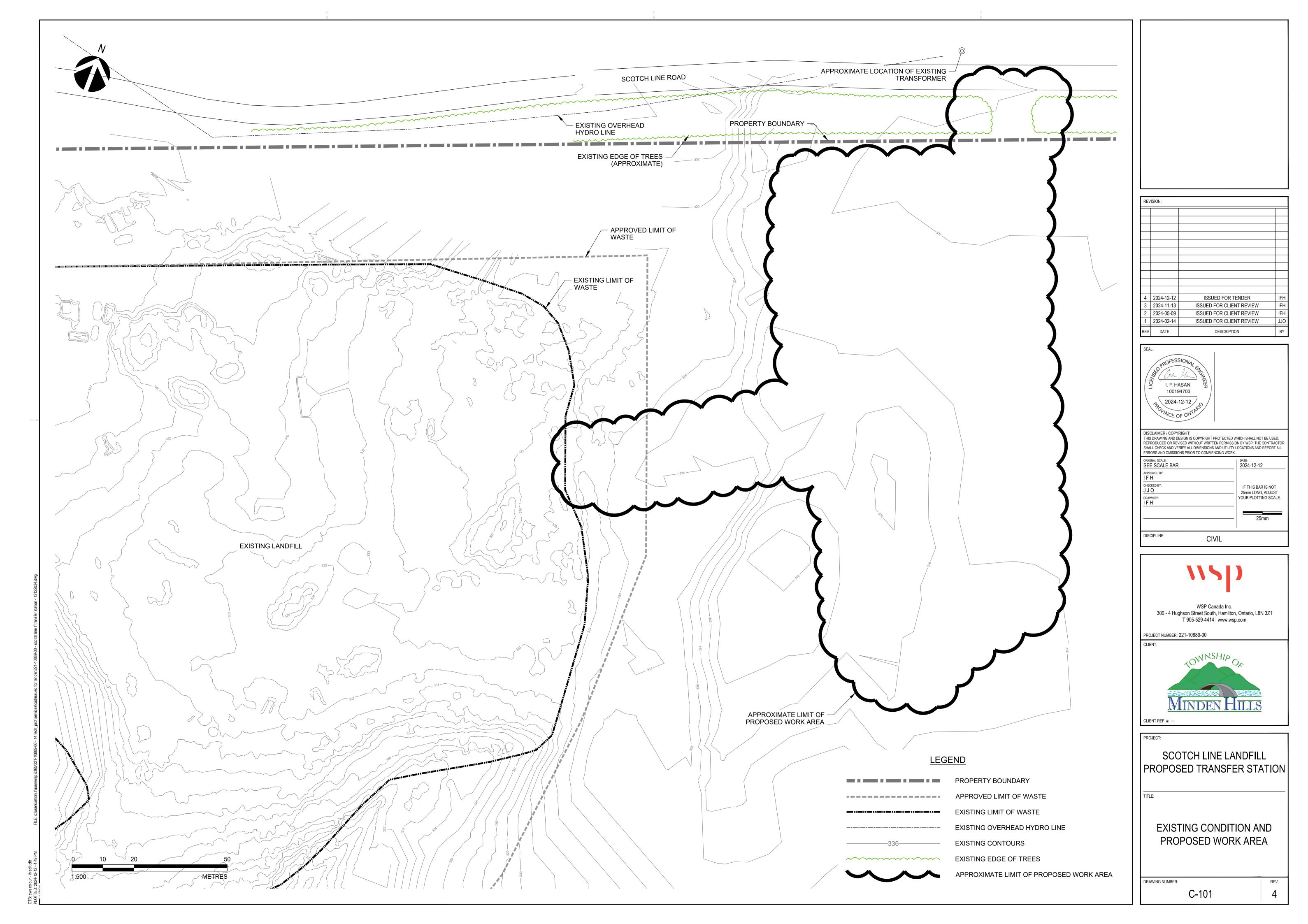
SCOTCH LINE LANDFILL PROPOSED TRANSFER STATION

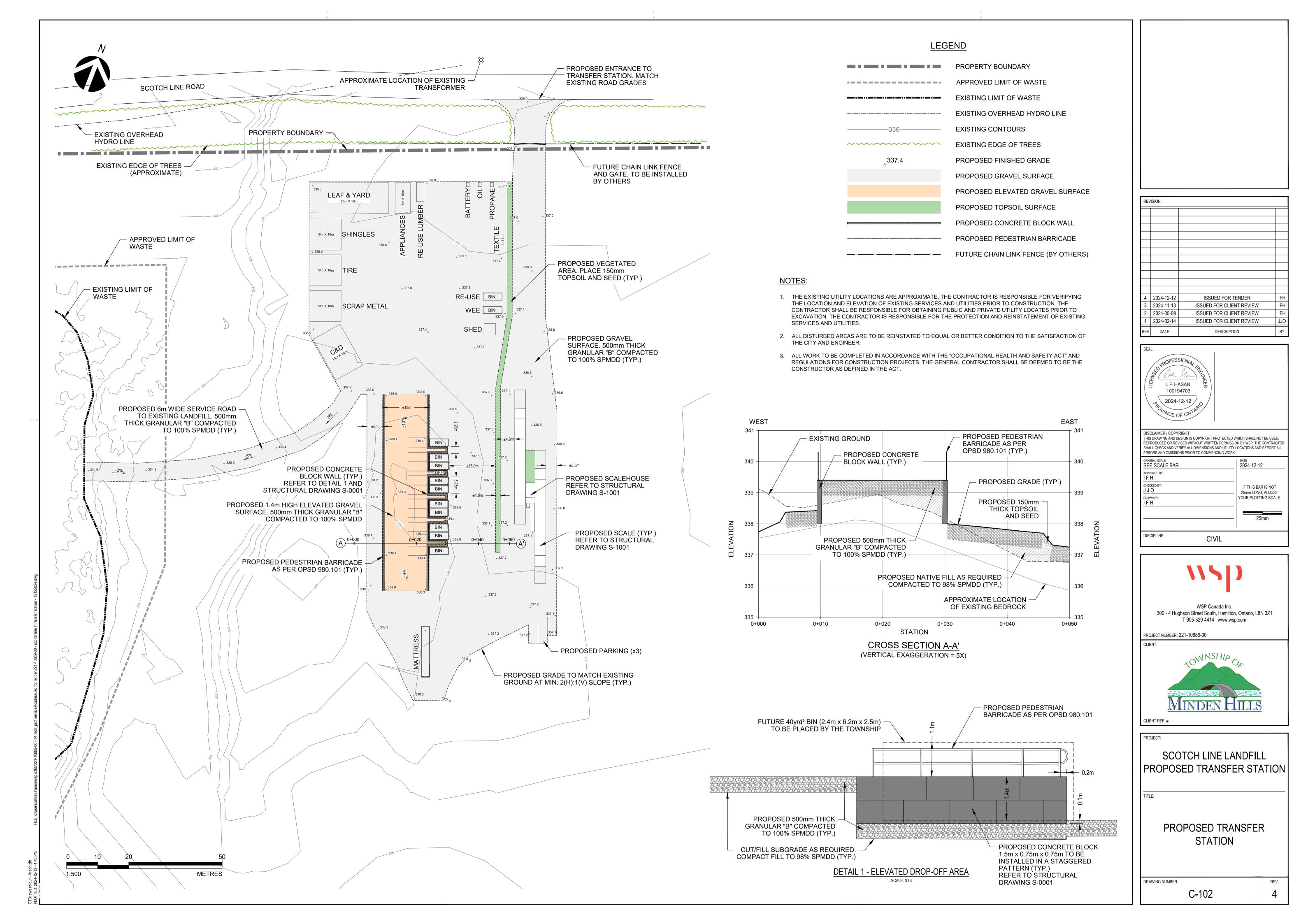
PROJECT NUMBER: 221-10889-00

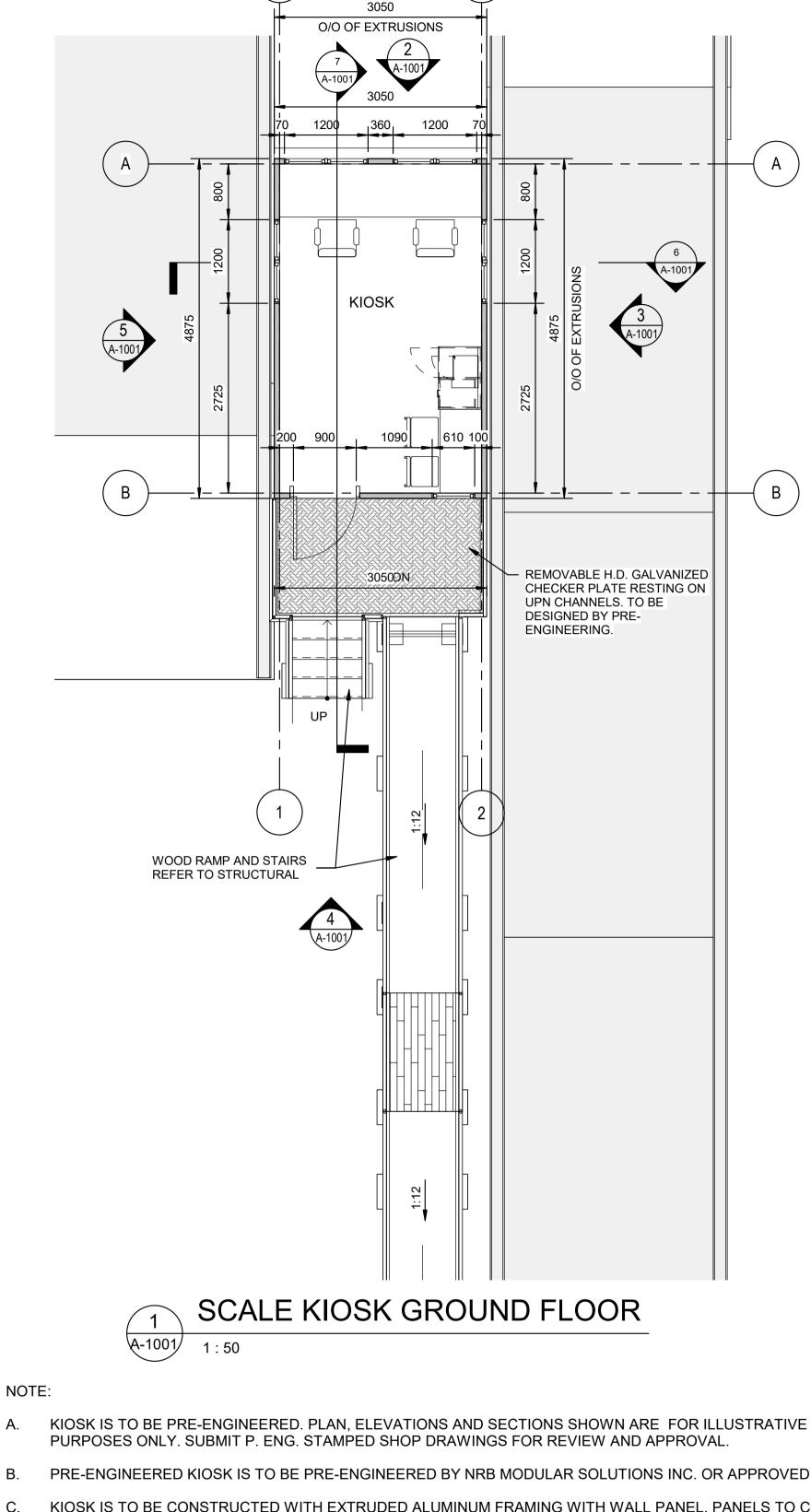
ISSUED FOR TENDER DECEMBER 2024

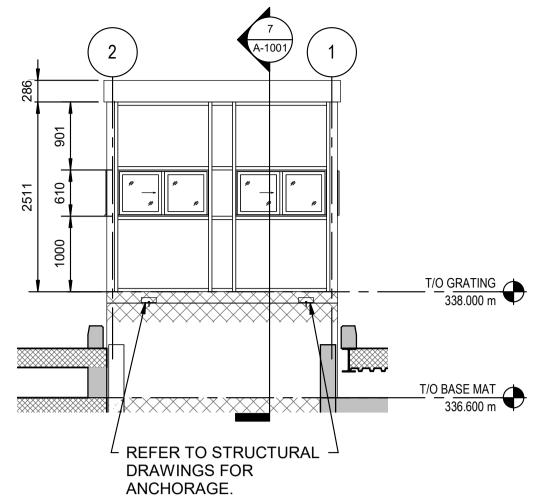
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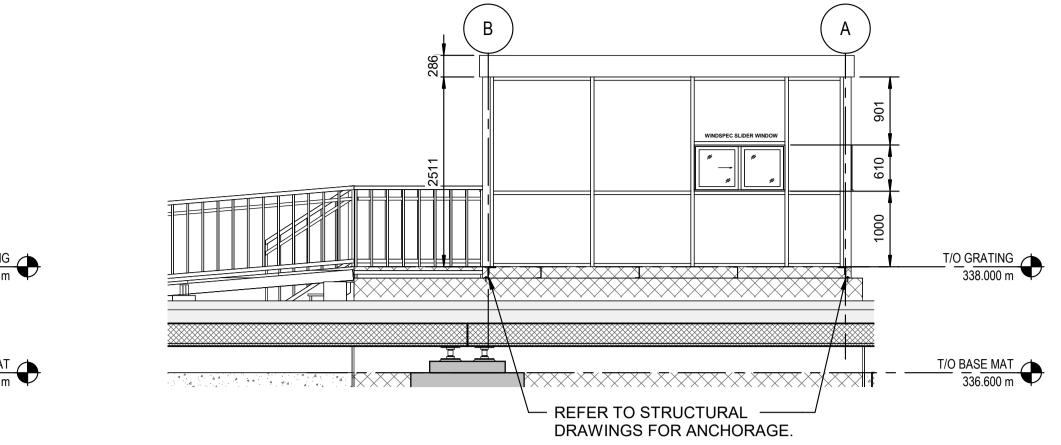




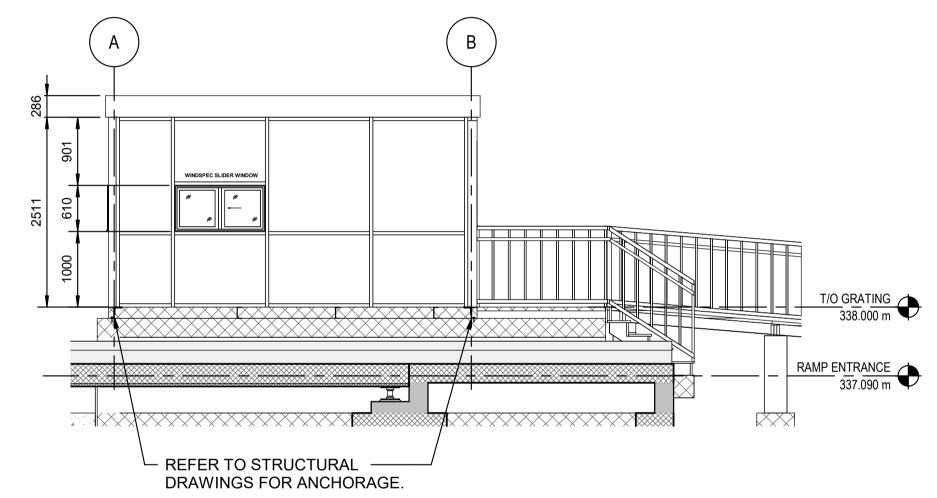




NORTH ELEVATION



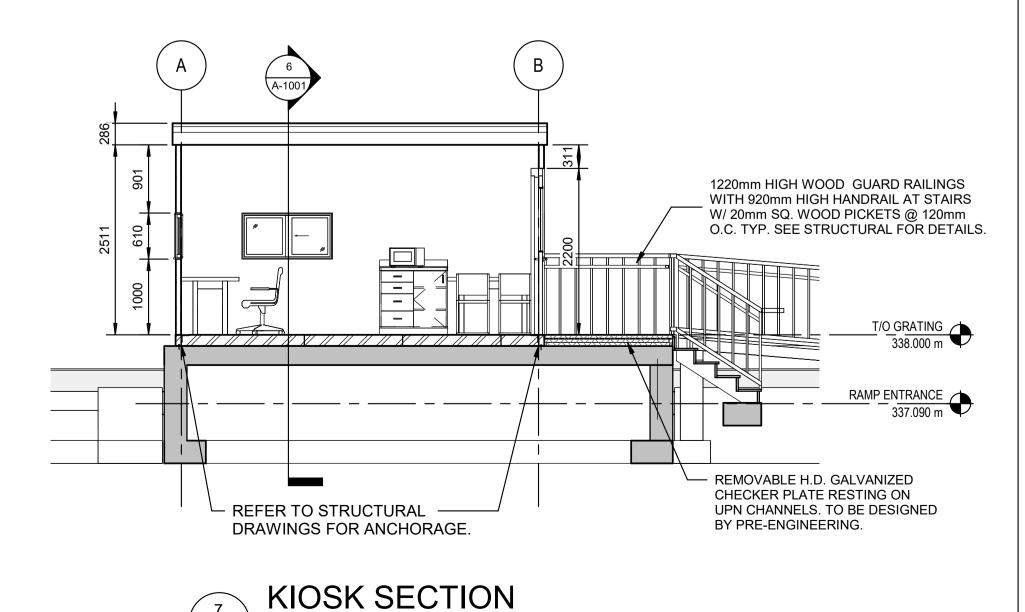


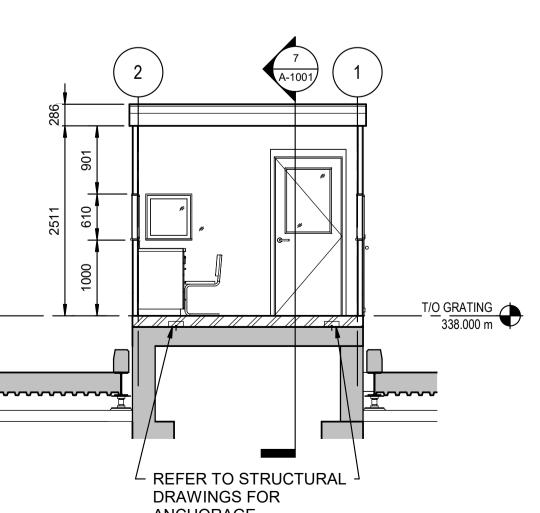




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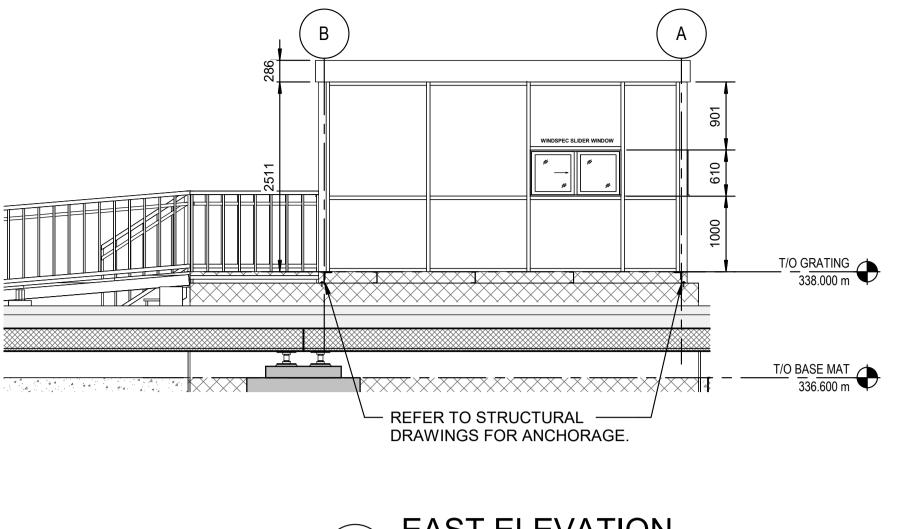


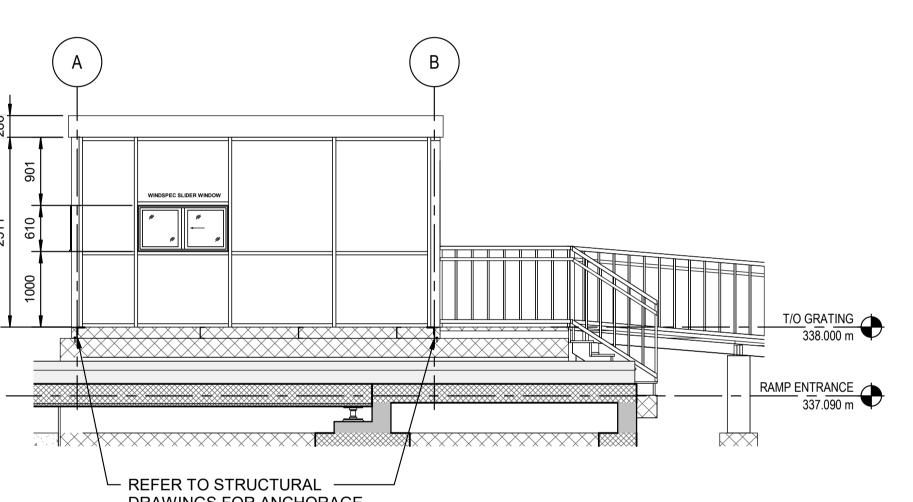
ANCHORAGE.

A-1001

SOUTH ELEVATION









ARCHITECTURAL

REVISION:

4 NOV. 2024 ISSUED FOR 100% SUBMISSION

AUG. 2024 ISSUED FOR 90% DETAILED DESIGN

ISSUED FOR 30% PRELIMINARY DESIGN

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06/14/24

IF THIS BAR IS NOT

YOUR PLOTTING SCALE.

DESCRIPTION

3 SEPT. 2024 ISSUED FOR PERMIT

MOSTAFA ELSAYED 100578705

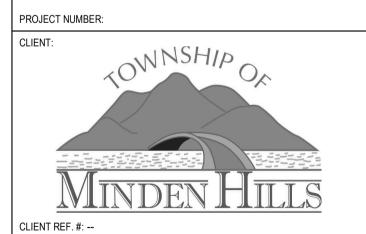
ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK.

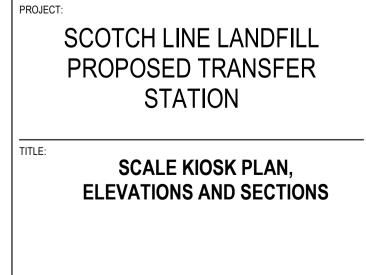
ORIGINAL SCALE: SEE SCALE BAR

<u>S.S.</u> CHECKED BY:
P.R.

DISCIPLINE:

JUNE 2024





DRAWING NUMBER: A-1001

3

PRE-ENGINEERED KIOSK IS TO BE PRE-ENGINEERED BY NRB MODULAR SOLUTIONS INC. OR APPROVED EQUAL.

KIOSK IS TO BE CONSTRUCTED WITH EXTRUDED ALUMINUM FRAMING WITH WALL PANEL. PANELS TO CONSIST OF MELAMINE COMPOSITE BOARD, RIGID INSULATION CORE, AND CLEAR ANODIZED ALUMINUM SHEET. ROOF IS TO BE METAL ROOFING ON ROOF RAFTERS WITH BATT INSULATION INFILL. FLOOR IS TO BE METAL DECK ON STEEL FRAME FINISHED WITH COMMERCIAL GRADE RUBBER FLOORING, RIGID INSULATION IS TO BE INSTALLED BENEATH THE FLOOR DECK. WINDOWS TO BE ALUMINUM INSULATED GLASS UNIT. DOORS TO BE COMMERCIAL ALUMINUM DOORS WITH GLAZING.

DOOR SIZE: DOOR HARDWARE: - 900 x 2100

- 4.5" BUTT HINGES

- WEATHER STRIPPING

- THRESHOLD

- DOOR CLOSER

- PUSH BAR/PULL HANDLE

- KEYED DEADBOLT LOCK w/ INTERIOR THUMB TURN

- TRANSFER HINGE AND DOOR CONTANCT

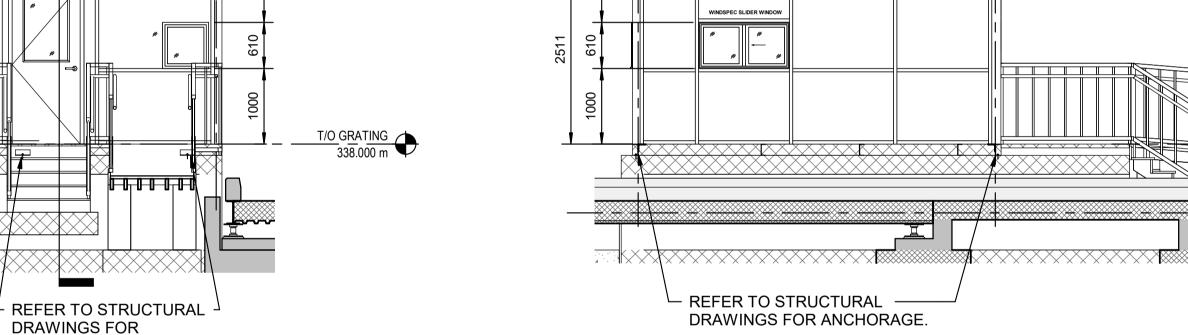
- POWER DOOR OPERATORS

SEE CIVIL DRAWINGS FOR FINAL KIOSK LOCATION.

E. KIOSK IS TO BE ANCHORED TO FOOTINGS. REFER TO STRUCTURAL DRAWINGS.

PROVIDE ADDITIONAL WOOD BLOCKING FOR RAFTERS TO MOUNT CAMERA ON KIOSK, REFER TO CIVIL AND I&C DRAWINGS FOR DETAIL.





INDICATIONS TO THE CONTRARY.

1.3 CONSTRUCTION TO BE IN ACCORDANCE WITH ONTARIO BUILDING CODE (OBC) 2012 OR THE LATEST EDITION AT THE TIME OF TENDER. THE ABOVE WILL GOVERN EXCEPT WHERE OTHER APPLICABLE CODES OR THE FOLLOWING NOTES ARE MORE RESTRICTIVE.

1.4 DO NOT SCALE DRAWINGS. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE. ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.

1.5 STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATED TO ARCHITECTURAL, MECHANICAL, OR ELECTRICAL EQUIPMENT TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. ALL DIMENSIONS ON NEW STRUCTURES ARE GIVEN AS AN AID TO ITS LOCATION RELATIVE TO EXISTING STRUCTURES. THEY ARE NOT GUARANTEED TO BE ACCURATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO PROCEEDING WITH CONSTRUCTION.

1.6 ALL DIMENSIONS AND SITE CONDITIONS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORKS. ACCURACY OF CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. BUILDING CONTROL LINES, REFERENCE LINES, GRID LINES, ELEVATIONS, AND TEMPORARY BENCHMARKS TO BE CLEARLY IDENTIFIED BY THE CONTRACTOR AND MAINTAINED DURING THE ENTIRE CONSTRUCTION PERIOD.

1.7 THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCE AND SAFETY.

1.8 ARCHITECTURAL, MECHANICAL, HVAC AND ELECTRICAL EQUIPMENT SUPPORTS, PADS, CURBS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS REQUIRED BY OTHER CONTRACT DRAWINGS TO BE COORDINATED AND VERIFIED FOR SIZE, LOCATIONS, AND QUANTITIES PRIOR TO CASTING CONCRETE. THE REINFORCEMENT MAY ALSO BE SHOWN ON OTHER DISCIPLINE DRAWINGS AS WELL AS STRUCTURAL DRAWINGS

1.9 REINFORCEMENT REQUIREMENTS ARE SHOWN ON DETAILED DRAWINGS. WHERE DETAILS OF BAR SIZE AND SPACING ARE NOT SHOWN, ALLOW FOR MINIMUM REINFORCEMENT IN ACCORDANCE WITH CAN/CSA A23.3. ALL REINFORCEMENT SHOWN SHALL BE CONTINUOUS UNLESS AS DETAILED OTHERWISE.

1.10 ALL WORKS SHALL CONFORM HEALTH AND SAFETY REGULATIONS, AS SPECIFIED IN OBC 2012 OR LATEST EDITION, AND IN OTHER LOCAL AND PROVINCIAL GAZETTES, BY-LAWS, AND LEGISLATIONS.

1.11 CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXITING UNDERGROUND, BURIED AND OVERHEAD SERVICES AND UTILITIES PRIOR TO CARRY OUT ANY EXCAVATION, DEMOLITION, AND CONSTRUCTION WORKS. THE CLIENT AND CONSULTANTS ASSUME NO RESPONSIBILITY FOR THE ACCURACY OF UTILITIES INDICATED ON THE DRAWINGS.

1.12 ALL CONSTRUCTION SHALL BE IN DRY CONDITIONS. DEWATERING OPERATIONS SHALL BE ARRANGED AND CARRIED OUT BY THE CONTRACTOR TO MAINTAIN DRY CONDITIONS AND WITHOUT CAUSING ANY DAMAGE TO EXISTING STRUCTURES.

1.13 ENSURE THAT THE SOIL BELOW ANY FOUNDATION IS NOT ALLOWED TO FREEZE, EITHER DURING OR AFTER CONSTRUCTION. UNDER NO CIRCUMSTANCES CONCRETE BE PLACED ON FROZEN SOIL.

1.14 CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CLEANLINESS OF THE FACILITY, ACCESS/EXIT ROAD FROM THE ENTRANCE TO THE WORK AREA. CONTRACTOR SHALL REMOVE AND DISPOSE OF THE DEBRIS FROM SITE ON A DAILY BASIS TO MAIN CLEANLINESS OF THE CONSTRUCTION.

1.15 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY MEASURES DURING

2. DESIGN LOAD

2.1. FOUNDATIONS

2.1.1. GEOTECHNICAL INFORMATION IS BASED ON GEOTECHNICAL STUDIES, GEOTECHNICAL CONSULTING SERVICES - SCOTCH LINE TRANSFER STATION, DATED JUNE 2023, PREPARED, AND ASSEMBLED BY WSP CANADA. BEARING CAPACITIES TO BE FIELD VERIFIED BY A GEOTECHNICAL ENGINEER.

 NATIVE SOIL IS BEDROCK SOIL BEARING CAPACITY = 750 kPa (ULS)

UNHEATED FOOTINGS ADJACENT TO SURFACES THAT ARE CLEARED OF SNOW COVER

SHOULD BE PROVIDED WITH A MINIMUM OF 1.8 M OF EARTH COVER.

 GIVEN THAT THE NATIVE SOIL IS SITUATED ABOVE THE GROUNDWATER TABLE, THE NEED FOR DEWATERING PROCEDURES IS NOT ANTICIPATED.

2.2. SNOW LOAD DATA FOR MINDEN, ON:

• (1/50 YEAR) GROUND SNOW LOADING, $S_s = 2.7 \text{ kPa}$

 ASSOCIATED RAIN LOADING, S_r = 0.4 kPa • IMPORTANCE FACTOR (HIGH), I_s = 1.15 (ULS) AND 0.9 (SLS)

2.3. WIND LOAD DATA FOR MINDEN, ON: (1/50 year) HOURLY WIND PRESSURE, q = 0.35 kPa

• IMPORTANCE FACTOR (HIGH), I_w = 1.15 (ULS) AND 0.75 (SLS)

2.4. SEISMIC DATA FOR MINDEN, ON: • $S_a(0.2) = 0.124$

> • $S_a(0.5) = 0.089$ • $S_a(1.0) = 0.054$

• $S_a(2.0) = 0.028$ • $S_a(5.0) = 0.0071$

• $S_a(10.0) = 0.0031$

 PGV = 0.073 PGA = 0.071

SITE CLASS = B IMPORTANCE FACTOR (HIGH), I_E = 1.30 (ULS)

2.5. SCALE LOADS: - LIVE LOAD = CL-625-ON TRUCK

- SUPERIMPOSED DEAD LOAD INCLUDING ALL DECK ELEMENTS AND WEARING SURFACES (FOR WEIGH SCALE ONLY) = TBD BY SUPPLIER

2.5.1. SITE PREPARATION, EXCAVATION AND SHORING

EXPOSED SUBGRADE SHALL BE INSPECTED AND APPROVED BY A GEOTECHNICAL ENGINEER OR THE ENGINEER'S REPRESENTATIVES BEFORE PLACEMENT OF ANY FILL MATERIALS.

2.5.1.2. THE FOUNDATION SHOULD BE ESTABLISHED ON NATIVE BEDROCK. UTILIZE A 15.0 MPa (MUD CONCRETE) TO ENSURE A LEVEL BASE FOR CONSTRUCTION ACTIVITIES.

2.5.1.3. ALL EXCAVATIONS AND DISPOSALS MUST COMPLY WITH HEALTH AND SAFETY REGULATIONS AND ALL APPLICABLE AS PER THE ONTARIO OCCUPATIONAL HEALTH AND SAFETY REGULATORY REQUIREMENTS, ONTARIO BUILDING CODE (OBC) AND RELEVANT PROVINCIAL BYLAWS AND LEGISLATIONS.

BACKFILL AND ENGINEERED FILL

2.5.2.1. EXISTING EXCAVATED SOIL ARE NOT TO BE RE-USED. ALL UNSUITABLE EXCAVATED SOIL SHALL BE REMOVED FROM SITE.

2.5.2.2. ENGINEERED FILL SHOULD BE PLACED IN A MAXIMUM OF 300 mm THICK LOOSE LIFTS AND COMPACTED TO AT LEAST 98% SPMDD.

2.5.2.3. UPPER SURFACE OF THE ENGINEERED FILL SHOULD EXTEND TO A MINIMUM OF 1 M OUTSIDE OF THE OUTER EDGE OF ANY STRUCTURAL FOOTPRINT AREAS IN ALL DIRECTIONS AND SHOULD BE SLOPED DOWNWARD AND OUTWARD AT NO STEEPER THAN 1:1 SLOPE.

3.1. ENGINEERED BACKFIL

- UNIT WEIGHT = 21 kN/m³ - COEFFICIENT OF LATERAL EARTH PRESSURE (AT REST) = 0.5

3.2. CONCRETE

SPECIFIED 28 – DAY MINIMUM COMPRESSIVE STRENGTH:

- STRUCTURAL CONCRETE (FOUNDATIONS AND WALLS) = 35 MPa (CLASS C-1) - SLAB ON GRADE = 35 MPa (C-1) - MASS CONCRETE, FILL AND LEAN CONCRETE, MUD SLAB = 15 MPa (Class N) UNSHRINKABLE FILL (U-Fill) = 0.7 MPa

CONCRETE EXPOSURE CLASS, CONCRETE STRENGTH AND MIX DESIGN, ACCESSORIES AND PLACEMENT TO CONFORM TO SPECIFICATIONS.

CAST-IN-PLACE CONSTRUCTION AGAINST THE GROUND. EXTEND 300MM MINIMUM BEYOND FOUNDATIONS UNO.

3.2.3. ALL EXPOSED EDGES TO HAVE 25MM CHAMFER UNO.

HOT WEATHER AND COLD WEATHER CONCRETE, AND CONSTRUCTION JOINTS AND CONCRETE POUR PLAN

3.3.4.1. DO NOT PLACE CONCRETE AGAINST ANY SURFACE WHICH IS LESS THAN 5°C.

3.3.4.2. CONCRETE IN COLD WEATHER SHALL FOLLOW CSA A23.1-14, CLAUSE 7.1.2 - COLD WEATHER CONCRETING, MAINTAIN TEMPERATURE OF CONCRETE WHEN DEPOSITED IN FORMS NOT LESS THAN 15°C OR HIGHER THAN 25°C.

3.3.4.3. CONCRETE IN HOT WEATHER SHALL FOLLOW CSA A23.1-14, CLAUSE 7.1.1 – HOT WEATHER CONCRETING. DO NOT PLACE CONCRETE WITH TEMPERATURE HIGHER THAN 27°C. CONCRETE WITH TEMPERATURE IN EXCESS 27°CON ARRIVAL AT THE SITE SHALL BE REJECTED. REMOVE REJECTED CONCRETE FROM THE SITE.

3.3. REINFORCING BARS

3.3.1. ALL REINFORCEMENT BAR TO CONFORM TO CSA G.30.18M GRADE 400 UNO.

3.3.2. FABRICATE AND PLACE REINFORCEMENT BAR IN ACCORDANCE WITH RISC MANUAL FOR STANDARD PRACTICES, UNO.

3.3.3. MINIMUM CLEAR COVER FOR CAST-IN-PLACE CONCRETE REINFORCEMENT TO BE 50 mm, UNLESS SPECIFICALLY NOTED OTHERWISE. THIS INCLUDES FORMED SURFACES AND CONCRETE BEARING ON A MUD SLAB. CONCRETE COVER FOR UNFORMED SURFACES AGAINST EARTH TO BE 75 MM.

3.3.4. REINFORCEMENT BAR FABRICATION AND PLACING TOLERANCES SHALL NOT REDUCE THE CLEAR COVER TO LESS THAN THE SPECIFIED MINIMUM CLEAR CONCRETE COVER SPECIFIED.

3.3.5. CONSTRUCTION JOINTS INDICATED ON THE DRAWINGS ARE SUGGESTED LOCATIONS. CONTRACTOR MAY REVISE LOCATION OF JOINTS SUBJECT TO SPECIFIED REQUIREMENTS. ADDITIONAL CONSTRUCTION JOINT LOCATIONS, INCLUDING ADDITIONAL REQUIRED FOR CONSTRUCTION, SHALL EB SUBMITTED FOR THE ENGINEER'S REVIEW.

3.3.6. COORDINATE PLACEMENT OF OPENINGS, PIPE PENETRATIONS, CURBS, DOWELS, SLEEVES, SUPPORTS, ANCHOR BOLTS, INSERTS, ETC., PRIOR TO PLACEMENT OF CONCRETE.

3.3.7. PROVIDE DOWELS FROM FOOTINGS, SLABS, WALLS SIMILAR IN NUMBER, SIZE AND SPACING TO THE VERTICAL AND HORIZONTAL REINFORCING BAR IN THE WALLS ABOVE UNLESS NOTED OTHERWISE.

3.3.8. ALL HOOKS SHOWN ON DRAWINGS TO BE STANDARD HOOKS CONFORMING TO CAN/CSA A23.3 (UNO).

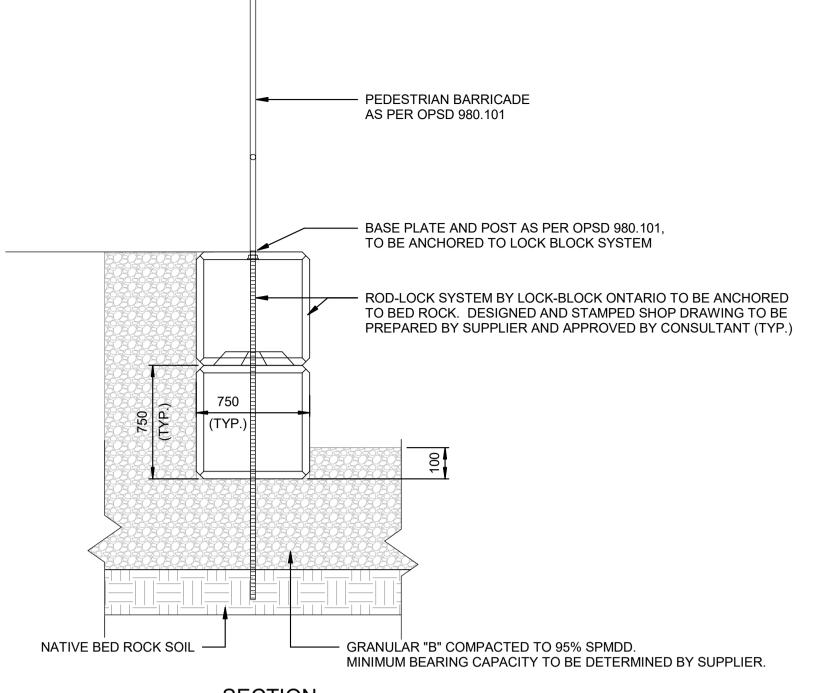
3.3.9. UNLESS NOTED OTHERWISE, PROVIDE THE FOLLOWING TABLE FOR MINIMUM LAP LENGTHS.

REINFORCEMENT SPLICES 35 MPa CONCRETE, NORMAL WEIGHT, 400 MPa REINFORCING BARS

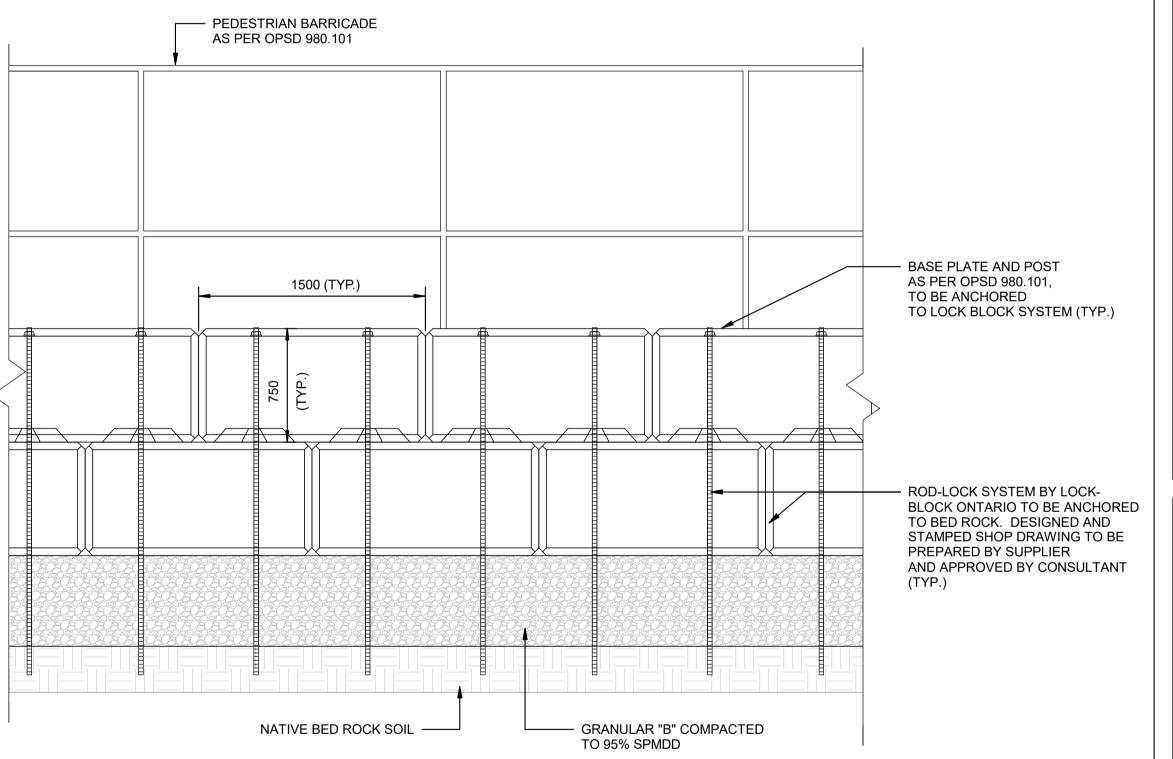
| DAD CIZE | | | LAP LENGTH (mm) | | | |
|----------|---|--------------------|---|--------------------|-----------|------|
| BAR SIZE | | | ALL OTHER BAR | RS(mm) | DOWI | ELS |
| | CLASS A | CLASS B | CLASS A | CLASS B | А | В |
| 10M | 360 | 470 | 300 | 360 | 300 | 360 |
| 15M | 510 | 510 670 | | 400 510 | | 510 |
| 20M | 620 810 | | 480 | 480 620 | | 620 |
| 25M | 1000 | 1300 | 770 | 1000 | 770 | 1000 |
| 30M | 1190 | 1550 | 920 | 1190 | 920 | 1190 |
| 35M | 1390 | 1810 | 1070 | 1390 | 1070 | 1390 |
| NOTE 1: | DOWELS ARE TO M | | CEMENT UNLESS NO | TED OTHERWISE. US | E CLASS A | |
| NOTE 2: | TOP BARS ARE: A) ALL BARS IN COI B) ALL HORIZONTA | | THAN 300mm CONCRE | ETE BELOW. | | |
| NOTE 3: | PROVIDE CLASS B | LAP UNLESS NOTED (| OTHERWISE | | | |
| NOTE 4: | | | BLE ARE BASED ON H | HEAVIER CONFINED B | BARS. | |
| NOTE 5: | | LESS SHOWN OTHER | | NEO. | | |
| NOTE 6: | | | O CLASS 'A' LAP SPLIC | - | | |
| NOTE 7: | _ | | OATED REINFORCEM | | | |
| NOTE 8: | | | BE STANDARD HOOKS S NOT SHOWN, FOLLO | | NO) | |

4.0 WEIGH SCALE:

- REFER TO ACTIVE SCALE'S SHOP DRAWINGS FOR DETAILS



SECTION



ELEVATION

RETAINIG BLOCK WALL DETAIL N.T.S.

4 DEC. 2024 ISSUED FOR TENDER 3 NOV. 2024 ISSUED FOR 100% DRAFT SUBMISSION SEPT. 2024 ISSUED FOR PERMIT AUG. 2024 ISSUED FOR 90% DESIGN DATE DESCRIPTION MOSTAFA ELSAYED 100578705 Nov.29.202

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| SCALE BAR | 07/06/23 |
|-----------|---|
| VED BY: | |
| ED BY: | IF THIS BAR IS NOT 25mm LONG, ADJUST |
| BY: | YOUR PLOTTING SCALE. |
| | |
| | 25mm |

DISCIPLINE: STTRUCTURAL



PROJECT NUMBER:



SCOTCH LINE LANDFILL PROPOSED TRANSFER STATION

GENERAL NOTES AND STANDARD DETAILS (1)

DRAWING NUMBER:

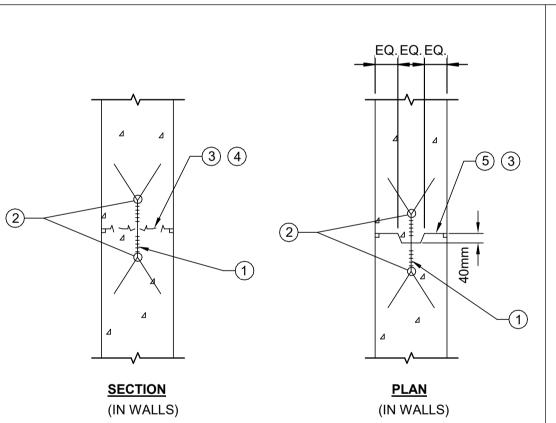
S-0001

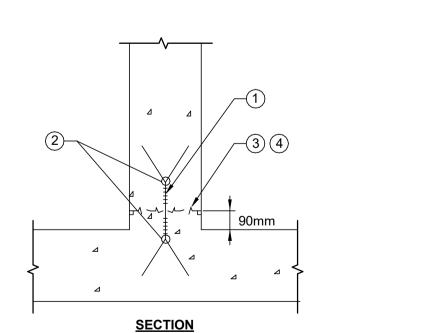
CONCRETE COVER TO REINFORCEMENT

BEND, SAME SIZE 3-BARS INSIDE BEND, SAME SIZE AS VERT BARS. AS VERT BARS. HORIZONTAL HORIZONTAL REINF. REINF. VERTICAL VERTICAL REINF. REINF. SEE WALL CORNER 2-LAYERS OF BARS WALL INTERSECTION 2-LAYERS OF BARS 2-BARS INSIDE BEND, SAME SIZE AS VERT BARS. **HORIZONTAL** REINF. **VERTICAL** REINF. WALL END 2-LAYERS OF BARS

2-BARS INSIDE

CONC. WALL CORNER & INTERSECTION REINFORCING NTS



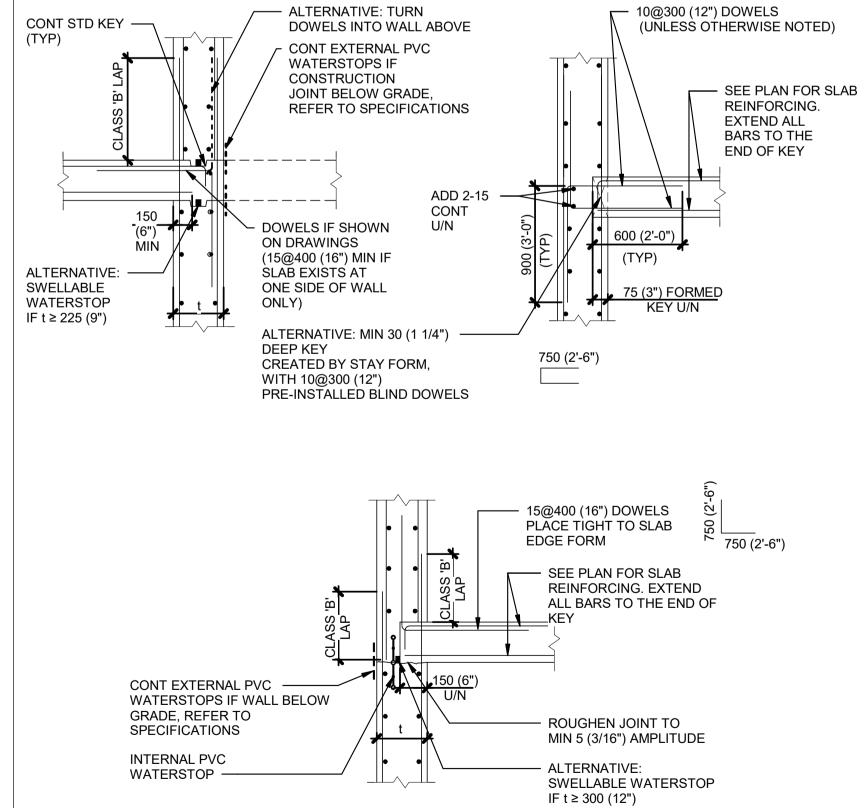


- (1) 150mmx10mm P.V.C. WATERSTOP.
- (2) 2 CONTINUOUS 10M REINF. BARS TIED TO WATERSTOP AT 300mm C/C AND TIED TO MAIN REINF. AT 600mm C/C.
- (3) CLEAN FIRST POUR SURFACE THOROUGHLY OF ALL CONTAMINANTS LAITANCE OR INFERIOR CONCRETE BEFORE SECOND POUR AND ROUGHEN TO FULL 5mm
- 4 LEAVE SURFACE ROUGH BETWEEN POUR AT HORIZONTAL JOINTS.
- (5) FORM JOINTS AT VERTICAL AND SLOPING JOINTS.
- 7 ITEMS 1 AND 2 MAY BE OMITTED WHERE SPECIFIED.

CONSTRUCTION JOINT DETAIL

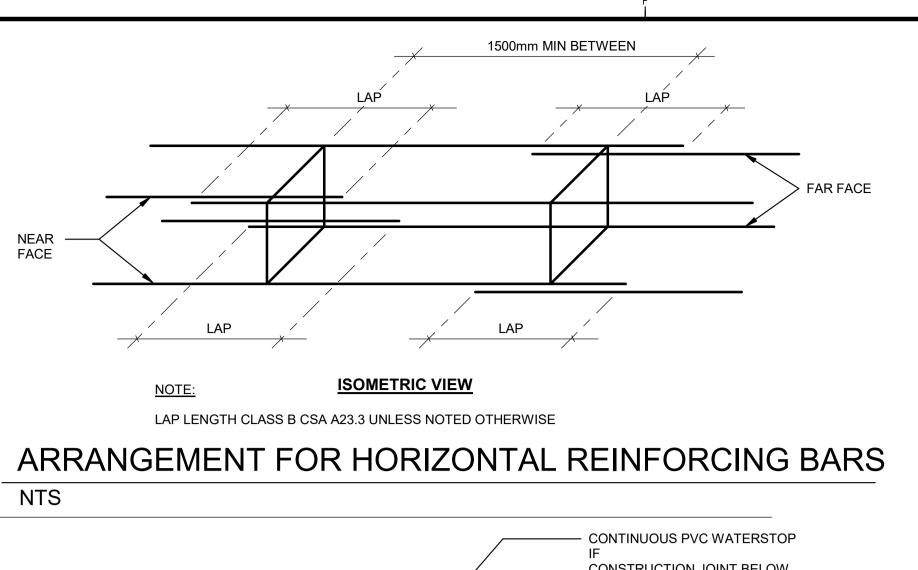
NTS

NTS



CONCRETE WALL AT SLAB SUPPORT

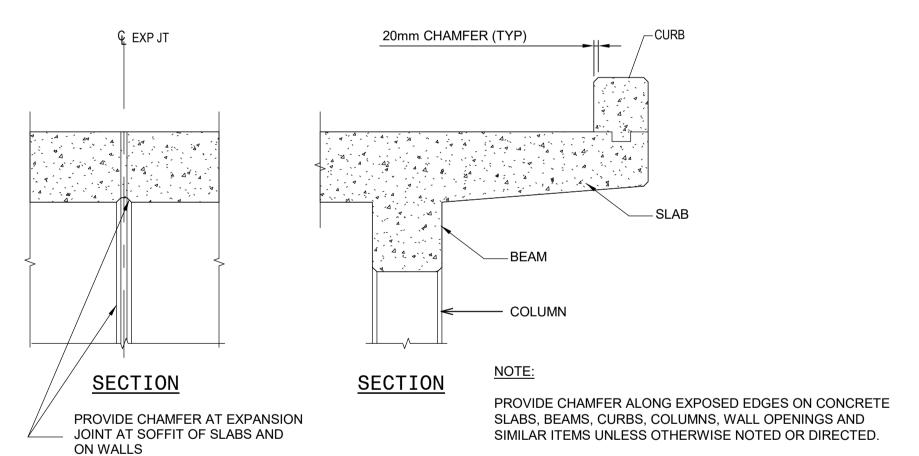
NTS



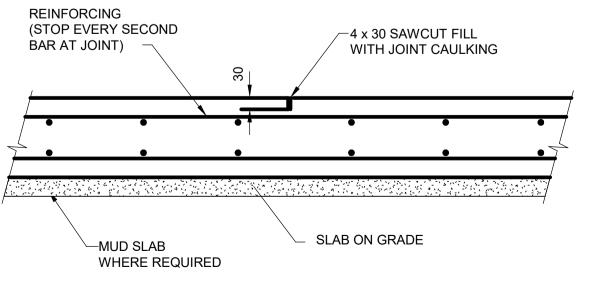
CONSTRUCTION JOINT BELOW CONT STD KEY REFER TO SPECIFICATIONS. ALTERNATIVE: SWELLABLE WATERSTOP IF t ≥ 225 (9") 20 (3/4") DEEP REGLET FOR CAULKING ON FACE(S) EXPOSED TO HORIZONTAL REINFORCEMENT CONT THROUGH JOINT (OR SPLICED WITH CLASS 'B' LAP) DO NOT PLACE CONSTRUCTION JOINTS IN ANY SHEAR WALLS.

CONSTRUCTION JOINT IN WALL

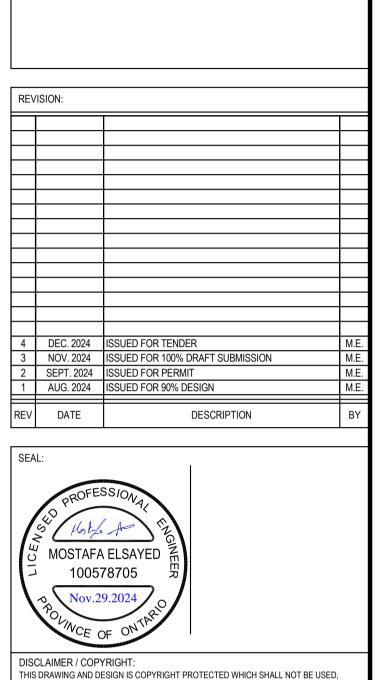
NTS



CHAMFERS NTS



NTS



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SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL

APRIL 2023

IF THIS BAR IS NOT

YOUR PLOTTING

SCALE.

ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK.

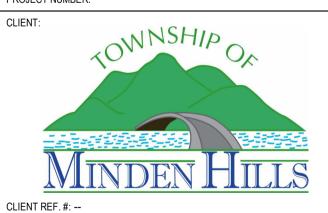
ORIGINAL SCALE: SEE SCALE BAR

CHECKED BY:

STRUCTURAL 150 COMMERCE VALLEY Dr. W.

HORNHILL ONTARIO CANADA L3T7Z3

PROJECT NUMBER:



SCOTCH LINE LANDFILL PROPOSED TRANSFER STATION

STANDARD DETAILS (2)

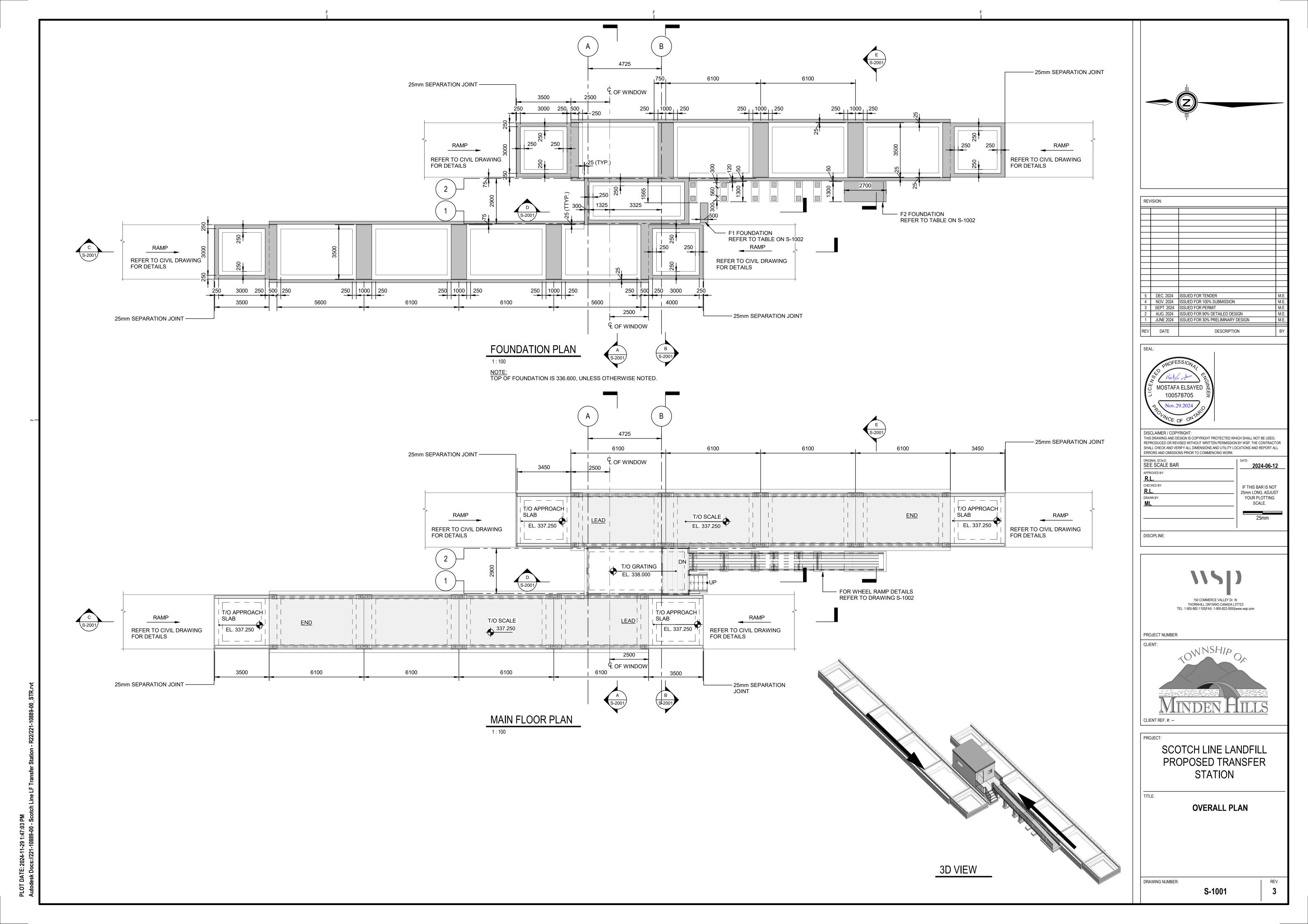
DRAWING NUMBER:

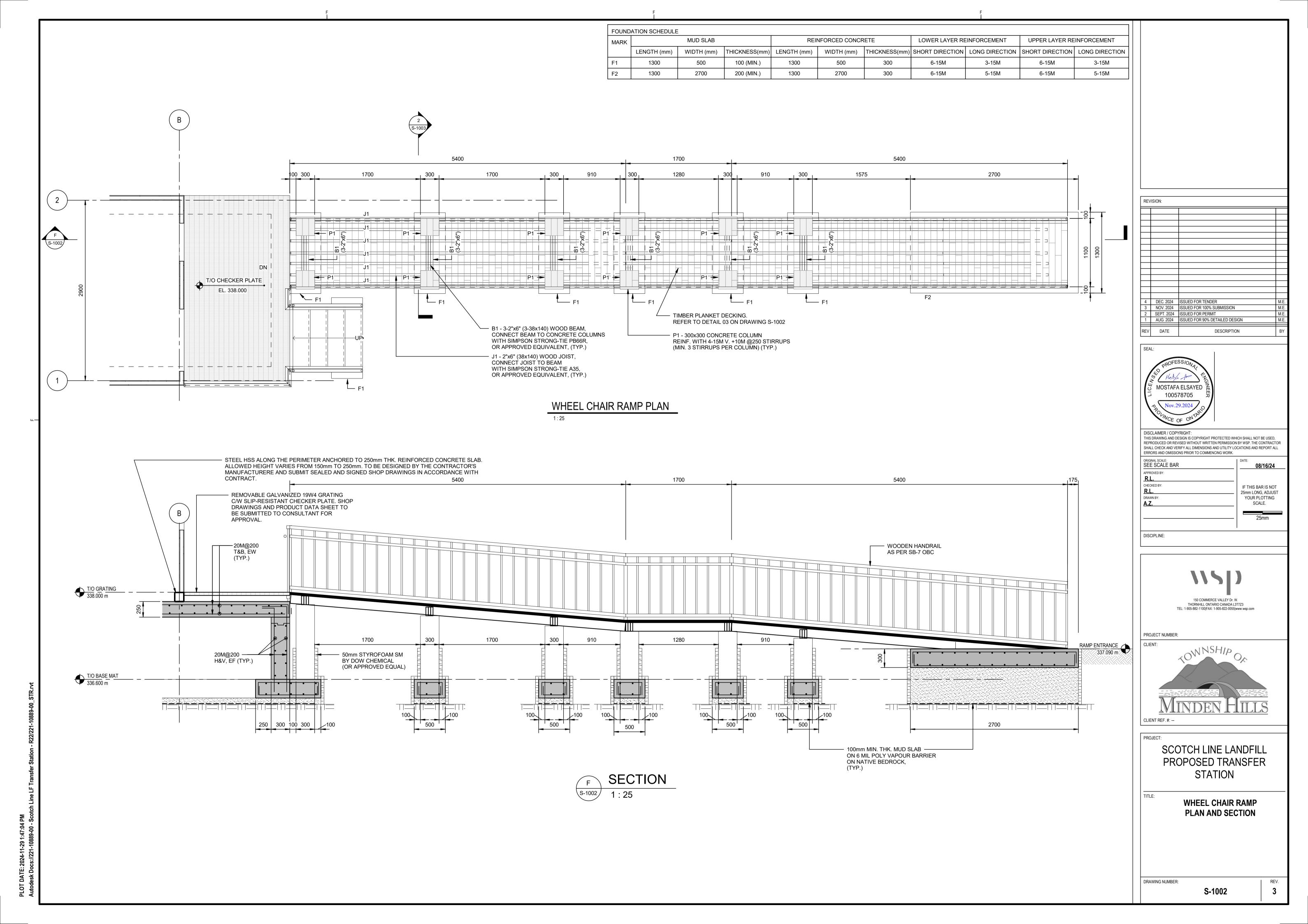
S-0002

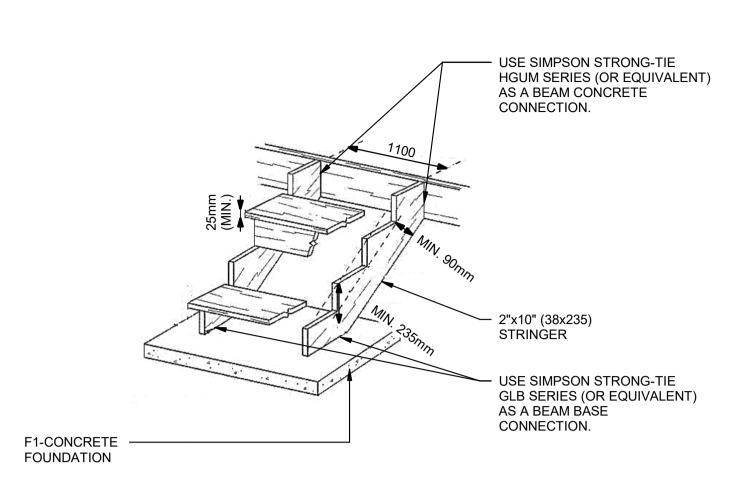
DISCIPLINE: TEL: 1-905-882-1100|FAX: 1-905-822-0055|www.wsp.com

SPACE SLAB CONTROL JOINTS @5000± MAX (UNO). FORM SQUARE PANELS WHEREVER POSSIBLE.

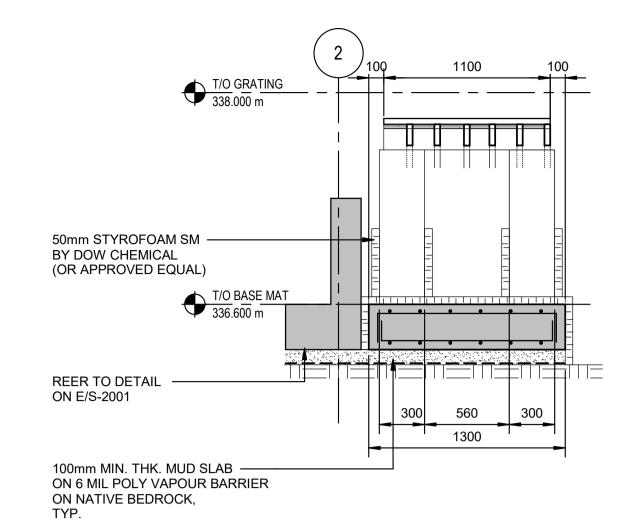
CONTROL JOINTS FOR SLAB ON GRADE

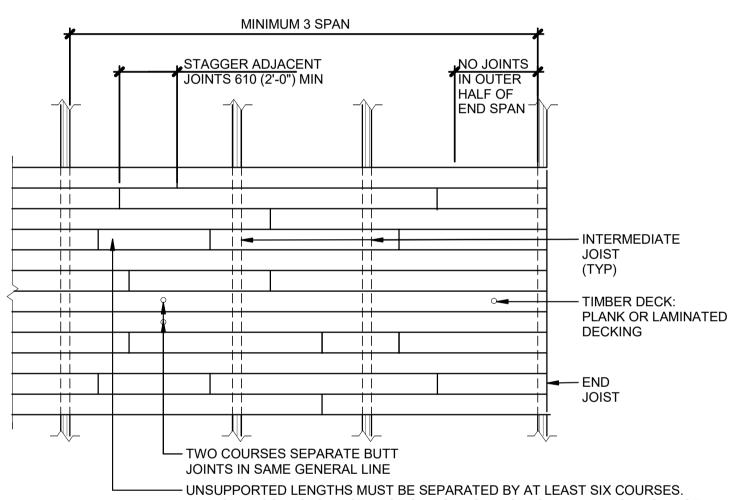






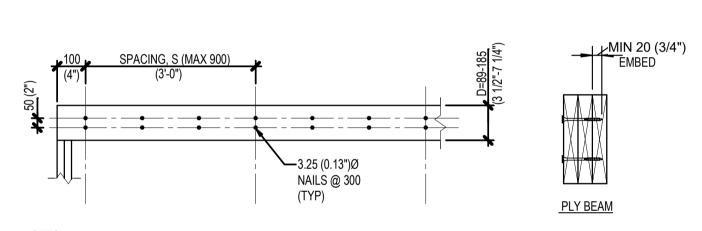




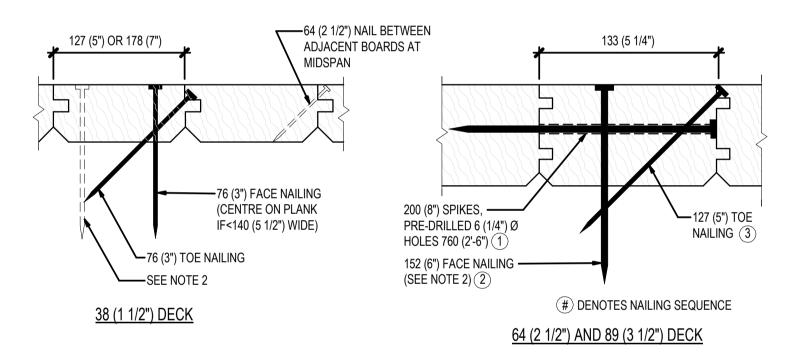


- UNSUPPORTED LENGTHS MUST BE SEPARATED BY AT LEAST SIX COURSES.
ADJACENT COURSES MUST REST ON BOTH SUPPORTS. PLANK DECKING MUST BE DOUBLED TONGUE AND GROOVE IF MORE THAN 36 (2" NOMINAL) THICK. FOR 36 (2" NOMINAL) PLANK DECKING, ALL PLANKS MUST SPAN OVER AT LEAST ONE SUPPORT.

- 1. OTHER LAYOUT PATTERNS (SIMPLE SPAN AND TWO SPAN CONTINUOUS INSTALLATION) REQUIRE THAT ALL BUTT JOISTS OCCUR OVER A SUPPORT.
- 2. RANDOM PATTERN IS NOT PERMITTED FOR RAMP.

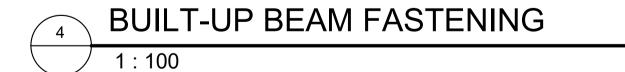


- 1. THIS DETAIL INDICATES MINIMUM FASTENING REQUIREMENTS FOR ALL DROPPED BEAMS. PROVIDE FASTENING AS PER DETAIL UNLESS NOTED OTHERWISE ON PLAN NOTES, BEAM SCHEDULE, OR BY FLOOR/ROOF SYSTEM ENGINEER.
- 2. SDW SCREWS BY SIMPSON STRONG-TIE OR APPROVED EQUIVALENT, LENGTH TO SUIT. NAILS MAY BE SUBSTITUTED FOR SCREWS SPACED AT 1/3S, U/N.



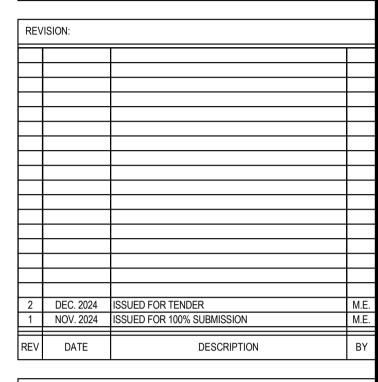
- 1. NAILING IS AT EACH SUPPORT UNLESS NOTED.
- 2. PLANKS GREATER THAN 140 (5 1/2") IN WIDTH SHALL BE NAILED WITH 3 NAILS TO EACH SUPPORT.

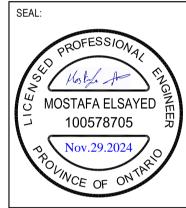
LAYOUT PATTERN FOR TIMBER PLANK DECKING





NAILING PATTERN FOR TIMBER PLANK





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ORIGINAL SCALE: SEE SCALE BAR 11/01/24 APPROVED BY: CHECKED BY: IF THIS BAR IS NOT YOUR PLOTTING SCALE.

DISCIPLINE: STRUCTURAL



PROJECT NUMBER:



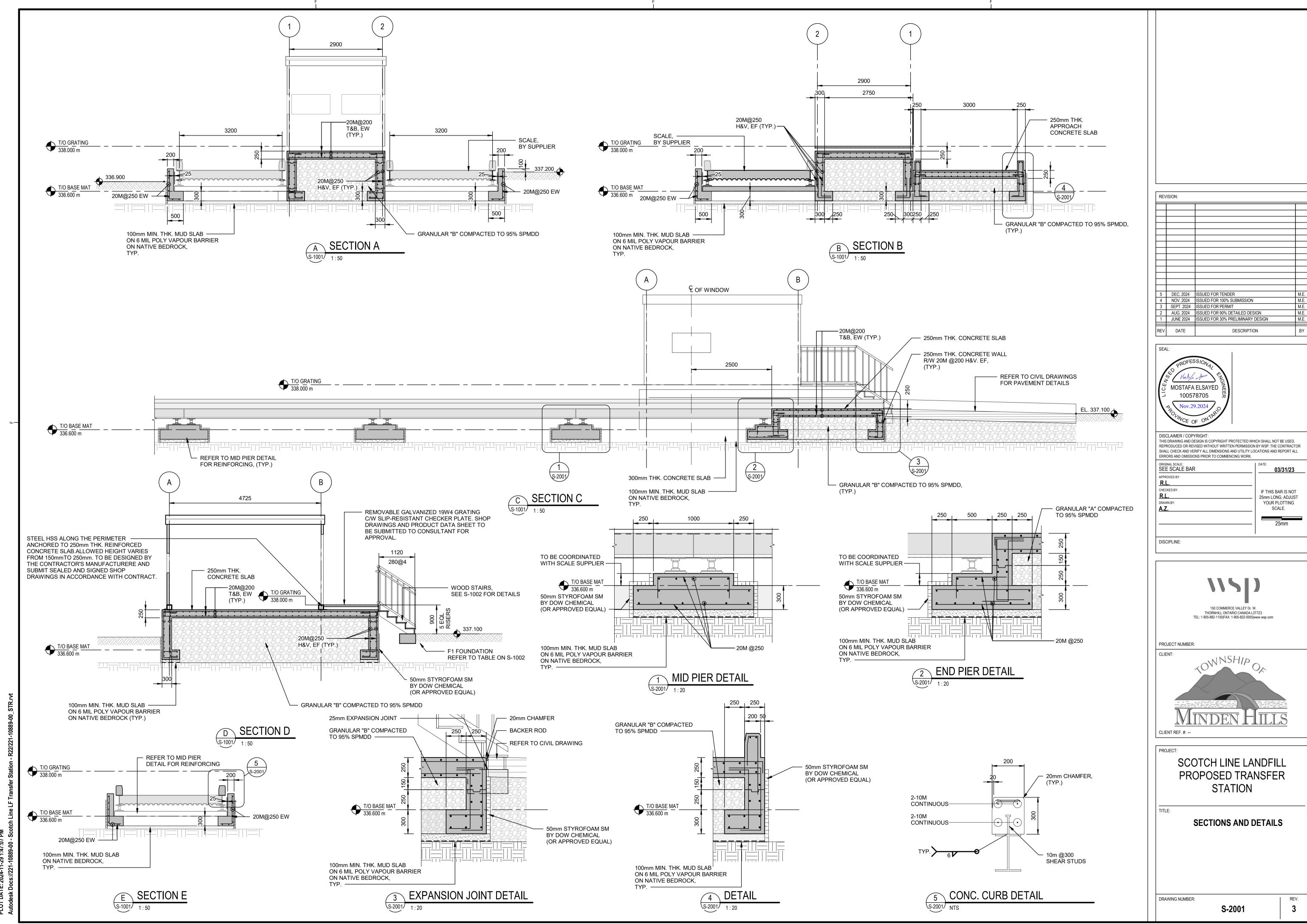
SCOTCH LINE LANDFILL PROPOSED TRANSFER STATION

WHEEL CHAIR RAMP **SECTIONS AND DETAILS**

DRAWING NUMBER:

S-1003

3



STANDARD ABBREVIATIONS

ELECTRICAL SYN

| 4 | AMPERES (CONTINUOUS) | L/S | LITRE PER SECOND |
|------------|---|------------|--|
| AC | ALTERNATING CURRENT | LS | LIMIT/LEVEL SWITCH |
| 4 F | AMPERE FRAME | MAN | MANUAL |
| ANF | DRY TYPE TRANSFORMER - FAN COOLED | MCC | MOTOR CONTROL CENTRE |
| ANN | DRY TYPE TRANSFORMER - | MCP | MOTOR CIRCUIT PROTECTOR |
| | NATURALLY COOLED OR ANNUNCIATOR | mm | MILLIMETER |
| AS | AIR SUPPLY | M.O. | MANUALLY OPERATED |
| ASYM | ASYMMETRICAL | M/O/A | MANUAL-OFF-AUTOMATIC |
| Α Τ | AMPERE TRIP | MOT | MOTOR |
| ATS | AUTOTRANSFORMER REDUCED VOLTAGE | MTD | MOUNTED |
| | STARTING OR AUTO TRANSFER SWITCH | MTG | MOUNTING |
| OTUA | AUTOMATIC | MTS | MANUAL TRANSFER SWITCH |
| AWG | AMERICAN WIRE GAUGE | N | NORTH OR NEUTRAL |
| BLDG | BUILDING | N/A | NON AUTOMATIC |
| BKR | BREAKER | N.O. | NORMALLY OPEN/NUMBER |
| С | DEGREE CELSIUS | N.C. | NORMALLY CLOSED |
| | CONDUCTOR | NP | NAMEPLATE |
| CCT | CIRCUIT | NPT | NATIONAL PIPE THREAD |
| <u> </u> | CENTERLINE | NTS | NOT TO SCALE |
| C/W | COMPLETE WITH | ОС | OVERCURRENT |
| PT | CONTROL POWER TRANSFORMER | ОН | ONTARIO HYDRO OR |
| R | CONTROL RELAY/CORROSION RESISTANT | | OVERHEAT |
| s | CONTROL SWITCH | OL | OVERLOAD |
| SA | CANADIAN STANDARDS | O/O/A | ON/OFF/AUTO |
| | ASSOCIATION | Р | POLE |
| CT | CURRENT TRANSFORMER | PB | PUSHBUTTON |
| CTL | CONTROL | PC | PHOTOCELL CONTROL |
| CTD | CURRENT TEST DEVICE | PCV | PRESSURE/PUMP CONTROL VALVE |
| CU | COPPER | PH OR 0/ | PHASE OR DIAMETER |
| C | DIRECT CURRENT | PH OR 0/ | PNEUMATIC-TO-CURRENT |
|).O. | DRAW OUT | P/I PID | |
| OISC | DISCONNECT | FID | PROPORTIONAL-INTEGRAL-(RESET) DERIVATIVE (RATE) |
| PDT | DOUBLE POLE DOUBLE THROW | P & ID | PROCESS AND |
| PST | DOUBLE POLE SINGLE THROW | | INSTRUMENTATION DIAGRAM |
| EEMAC | ELECTRICAL AND ELECTRONIC MANUFACTURERS ASSOCIATION | PLC | PROGRAMMABLE LOGIC CONTROLLER |
| | OF CANADA | REM | REMOTE |
| ELEC | ELECTRIC, ELECTRICAL | PNL | PANEL |
| ELR | END OF LINE RESISTOR | RES | RESISTOR |
| LU | EMERGENCY LIGHTING UNIT | RTD | RESISTANCE TEMPERATURE DETECTOR |
| ΞM | ENCLOSURE | RTU | REMOTE TERMINAL UNIT(PLC) |
| ENCL | EARLY MAKE (CONTACTS) | | , |
| Ю | ELECTRICALLY OPERATED | SEL | SELECTOR |
| P | EXPLOSION PROOF | SV | SOLENOID VALVE |
| STOP | EMERGENCY STOP | S/C | SHORT CIRCUIT |
| TM | ELAPSED TIME METER | SHLD | SHIELDED |
| RE | FIBREGLASS REINF.EPOXY | SN | SOLID NEUTRAL |
| VR | FULL VOLTAGE REVERSING | SPDT | SINGLE POLE DOUBLE THROW |
| VNR | FULL VOLTAGE, NON-REVERSING | SPST | SINGLE POLE SINGLE THROW |
| GFI . | GROUND FAULT INTERRUPTER | SS | SELECTOR SWITCH |
| SFR | GROUND FAULT CCT | SV | SOLENOID OPERATED VALVE (DIRECT OPERATED) |
| | INTERRUPTING RECEPTACLE | SW | SWITCH |
| SND | GROUND | SYM | SYMMETRICAL |
| I/O/A | HAND-OFF-AUTOMATIC | SYWI TC | SHUNT TRIP COIL or THERMOCOUPLE |
| IP . | HORSEPOWER | | |
| ITR | HEATER | TDC | TIME DELAY ON DROP OUT |
| łz | HERTZ | TDDO | TIME DELAY ON OPENING |
| EEE | INSTITUTE OF ELECTRICAL & ELECTRONIC ENGINEERS | TDO | TIME DELAY ON OPENING |
| ND | | TDPU | TIME DELAY ON PICK-UP |
| ND Net | INDICATION | TEMP | TEMPERATURE |
| NST O | INSTANTANEOUS | TERM | TERMINAL |
| (O | INPUT/OUTPUT | TR | TIME RELAY |
| P | CURRENT TO PNEUMATIC | TYP | TYPICAL |
| SA | INSTRUMENT SOCIETY OF AMERICA | V | VOLT |
| В | JUNCTION BOX | VA | VOLT-AMPERE |
| (AIC | KILO-AMP INTERRUPTING | VAC | VOLTS ALTERNATING CURRENT |
| - | CAPACITY | VDC | VOLTS DIRECT CURRENT |
| VA | KILOVOLTAMPERE | VFD | VARIABLE FREQUENCY DRIVE |
| :Hz | KILOHERTZ | VT | VOLTAGE TRANSFORMER (FORMER PT) |
| :W | KILOWATT | VTD | VOLTAGE TEST DEVICE |
| Wh | KILOWATT HOUR | W | WIRE OR WATT |
| .A | LIGHTNING ARRESTOR | WP | WEATHERPROOF |
| .В | LATE BREAK (CONTACTS) | 2S1W | TWO SPEED-ONE WINDING |
| | | | |
| .os | LOCK OUT STOP | 2S2W | TWO SPEED-TWO WINDING |
| | | | |

| /MBOLS | LIGHTING & POWER LAYOUTS |
|------------------------|---|
| | |
| H | FIRE ALARM PULL STATION HUMIDISTAT |
| | THERMOSTAT |
| ASC | ADJUSTABLE SPEED CONTROLLER |
| | SINGLE PHASE MOTOR STARTER WITH OVERLOAD |
| | SINGLE PHASE MOTOR STARTER WITH OVERLOAD AND PILOT LIGHT |
| | SELECTOR SWITCH |
| \boxtimes_{\Box} | DISCONNECT SWITCH ('X' DENOTES No. OF POLES) |
| СР | CONTROL PANEL (OR 'LP'-LOCAL PANEL) |
| \$ ^{A-10} | SINGLE POLE SWITCH (LETTER + NUMBER DENOTES CONNECTED TO PNL 'A' + CCT NUMBER '10') |
| \$ ₃ | 3 WAY SWITCH (3 WIRE) |
| \$4 | INTERMEDIATE SWITCH (4 WIRE) |
| OS | OCCUPANCY SENSOR (INFRARED MOTION) |
| PC | PHOTOCELL CONTROL |
| \ominus | SINGLE RECEPTACLE |
| \ominus | DUPLEX RECEPTACLE |
| \bigoplus_{WP} | DUPLEX RECEPTACLE WEATHER PROTECTED |
| ⊕ _{WCP} | DUPLEX RECEPTACLE (WEATHER AND CORROSION PROTECTED) |
| | THREE PHASE RECEPTACLE (FEMALE CONFIGURATION) |
| | DIRECT CONNECTION TO PACKAGE EQUIPMENT OR DEVICE CONDUIT STUB UP |
| \ominus | CLOCK OUTLET |
| lacksquare | 20A-1P DUPLEX RECEPTACLE |
| \bigoplus | SPECIAL OUTLET AS NOTED |
| \bigoplus | COUNTER-TOP OR WORKBENCH HEIGHT DUPLEX RECEPTACLE |
| • | COUNTER-TOP OR WORKBENCH HEIGHT SPLIT DUPLEX RECEPTACLE |
| GFCI | DUPLEX RECEPTACLE GROUND FAULT CIRCUIT INTERRUPTER |
| | COUNTER-TOP 20A T-SLOT DUPLEX RECEPTACLE |
| | 20A T-SLOT DUPLEX RECEPTACLE |
| | ISOLATED GROUND DUPLEX RECEPTACLE |
| | COUNTER-TOP ISOLATED GROUND DUPLEX RECEPTACLE |
| JB | JUNCTION BOX (OR 'PB'-PULL BOX) |
| | HEAT DETECTOR ('X' DENOTES TAG No.) |
| | SMOKE DETECTOR ('X' DENOTES TAG No.) |
| M | ELECTRICAL MOTOR |
| (s) | SOLENOID |
| MV | MOTORIZED (EO) VALVE |
| G | DIESEL-GENERATOR |
| | FIRE ALARM BELL |
| | PAGING LOUDSPEAKER |
| | CEILING MTD PAGING LOUDSPEAKER |
| ⋖ | TELEPHONE OUTLET |
| | EMERGENCY LIGHTING UNIT, |
| 4,6 7 | REMOTE ELLI AMPS (TWO LAMPS) |
| <u> </u> | REMOTE ELU LAMP (1 LAMP) |
| `F1' | CEILING OR WALL MOUNTED EXIT SIGN LIGHT FIXTURE TYPE `F1' (TYPICAL) |
| A-10 | CONNECTED TO PNL 'A', CCT '10' |

CONNECTED TO PNL 'A', CCT '10'

LIGHT FIXTURE TYPE H1 (TYPICAL) CONNECTED TO PNL 'A', CCT '10'

UNIT HEATER

| LIGHTING CONTROL PANEL | \boxtimes | TERMINAL BLOCK TO PLC |
|--|-----------------------------------|--|
| TIME SURFACE PRIMER | 2 | HVAC TERMINAL |
| POWER MONITOR | ■ | TERMINAL BLOCK TO FIELD TERMINAL BLOCK INSIDE MCC |
| AMMETER SWITCH | | OR CONTROL PANEL |
| VOLTMETER SWITCH | DI | PLC INPUT/OUTPUT, 'DI' DENOTES DISCRETE INPUT |
| KEY INTERLOCK | H , O A | |
| 600V DRAWOUT AIR | | CONTROL/SELECTOR SWITCH, 3 POSITION, TOP |
| CIRCUIT BREAKER,MOULDED CASE | LR | CONTROL/SELECTOR SWITCH, |
| WITH THERMAL & MAGNETIC TRIPS CIRCUIT BREAKER, MCP, MOULDED | <u> </u> | 2 POSITION, TOP |
| CASE WITH ADJUSTABLE 'MAGNETIC ONLY' TRIPS | | CONTROL/SELECTOR SWITCH, 2 OR 3 POSITION, BOTTOM |
| DRAWOUT CONNECTION CAPACITOR | | PUSHBUTTON, N.O., MOMENTARY CONTACT |
| RESISTOR OR HEATER | _0 0_ | PUSHBUTTON, N.C., MOMENTARY |
| | | CONTACT |
| FUSE | — <u>0 1 0</u> — | PUSHBUTTON, MOMENTARY CONTACT, WITH N.O. & N.C. CONTACTS |
| FUSED DISCONNECT SWITCH | — | THERMOSTAT, NORMALLY OPENED, CLOSES ABOVE 22°C |
| DISCONNECTING (ISOLATING) SWITCH | | THERMOSTAT, NORMALLY CLOSED, |
| LIGHTNING ARRESTER | -0_0- | OPENS ABOVE 22°C LEVEL SWITCH, CLOSES ON |
| | — | HIGH LEVEL LEVEL SWITCH, OPENS ON |
| SOLENOID THERMAL OVERLOAD TRIP | 0 | HIGH LEVEL PRESSURE SWITCH, OPENS ON |
| BATTERY | | HIGH PRESSURE |
| CURRENT TRANSFORMER | | PRESSURE SWITCH, CLOSES ON HIGH PRESSURE |
| CURRENT TRANSFORMER | | FLOW SWITCH, CLOSES ON HIGH FLOW |
| ZERO SEQUENCE (GROUND) | -070- | FLOW SWITCH, OPENS ON HIGH FLOW |
| CURRENT TRANSFORMER | -0 | TIME DELAY ENABLE (TDE) CONTACT NORMALLY OPEN |
| VOLTAGE TRANSFORMER | - - - | TIME DELAY ENABLE (TDE) CONTACT NORMALLY CLOSE |
| AUTOTRANSFORMER WITH TAPS | -0_0 | TIME DELAY DISENABLE (TDDE) CONTACT NORMALLY OPEN |
| POWER OR DISTRIBUTION TRANSFORMER | —o | TIME DELAY DISENABLE (TDDE) CONTACT |
| | → | NORMALLY CLOSE LIMIT/POSITION SWITCH, NORMALLY CLOSE |
| CONTROL POWER TRANSFORMER | -0,0 | LIMIT/POSITION SWITCH, NORMALLY OPEN |
| REACTOR | — — | CONTACT NORMALLY OPENED |
| DUAL AMMETER, THERMAL DEMAND & INSTANTANEOUS | | CONTACT NORMALLY CLOSED |
| VOLTMETER | A | INDICATING LIGHT, LETTER DENOTES LENS COLOUR |
| POWER FACTOR METER | R | PUSH TO TEST (P.T.T.) INDICATING LIGHT, LETTER DENOTES LENS COLOUR |
| KILOWATT METER | | CONTACTOR, CONTROL OR TIMING RELAY: |
| NIEGWATT WETER | (MS-*) | MS - MOTOR STARTER/CONTACTOR CR - CONTROL RELAY |
| WATTMETER | MS-* | TR - TIME DELAY RELAY (ON OR OFF TYPE AS INDICATED) No SEE 'DEVICE FUNCTION NUMBERS' |
| POWER GENERATOR, OR DG-DIESEL GENERATOR, OR MG-MOBILE GENERATOR | , | FOR DESCRIPTION * - RELAY NUMBER |
| DELTA CONNECTION | <u></u> | SURGE SUPPRESSOR |
| STAR CONNECTED, GROUNDED | Γ I Γ \cap \top | |
| SOLENOID | | RICAL GROUNDING SYMBOLS |
| | ⊗ ⊠ | GROUNDING ROD DIRECT BURIED GROUND ROD WITH INSPECTION BOX OR WELL |
| MOTOR | <u>———</u> | GROUNDING CONDUCTOR CONCEALED, |
| | | EMBEDED OR DIRECT BURIED SPLICE TO TAP CONNECTION |

GRADIENT CONTROL MAT

CONDIUT TRADE SIZE

CONDUCTOR SIZE AWG OR MCM

—► NUMBER OF CONDUCTORS

4 #12-21mmC

GENERAL NOTES

THIS IS A GENERAL ELECTRICAL LEGEND SHEET. SOME DEVICES, SYMBOLS OR ABBREVIATIONS MAY NOT BE USED ON THIS PROJECT.

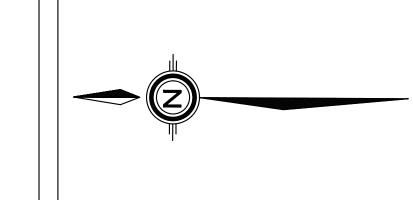
NEW SUPPLY AND EQUIPMENT

REFERENCED EQUIPMENT

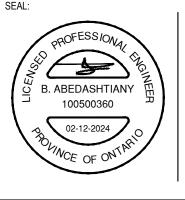
A - CONTINUOUS CURRENT RATING

MVA - INTERRUPTING RATING

EXISTING SUPPLY AND EQUIPMENT OR



| REV | ISION: | | |
|-----|------------|-------------------|-----|
| | | | |
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| | | | |
| | | | |
| 1 | 02/12/2024 | ISSUED FOR TENDER | B.A |
| REV | DATE | DESCRIPTION | BY |
| | | | |
| CEA | Li | | |



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PROJECT NUMBER: **221-10889-00** CLIENT REF. #: --

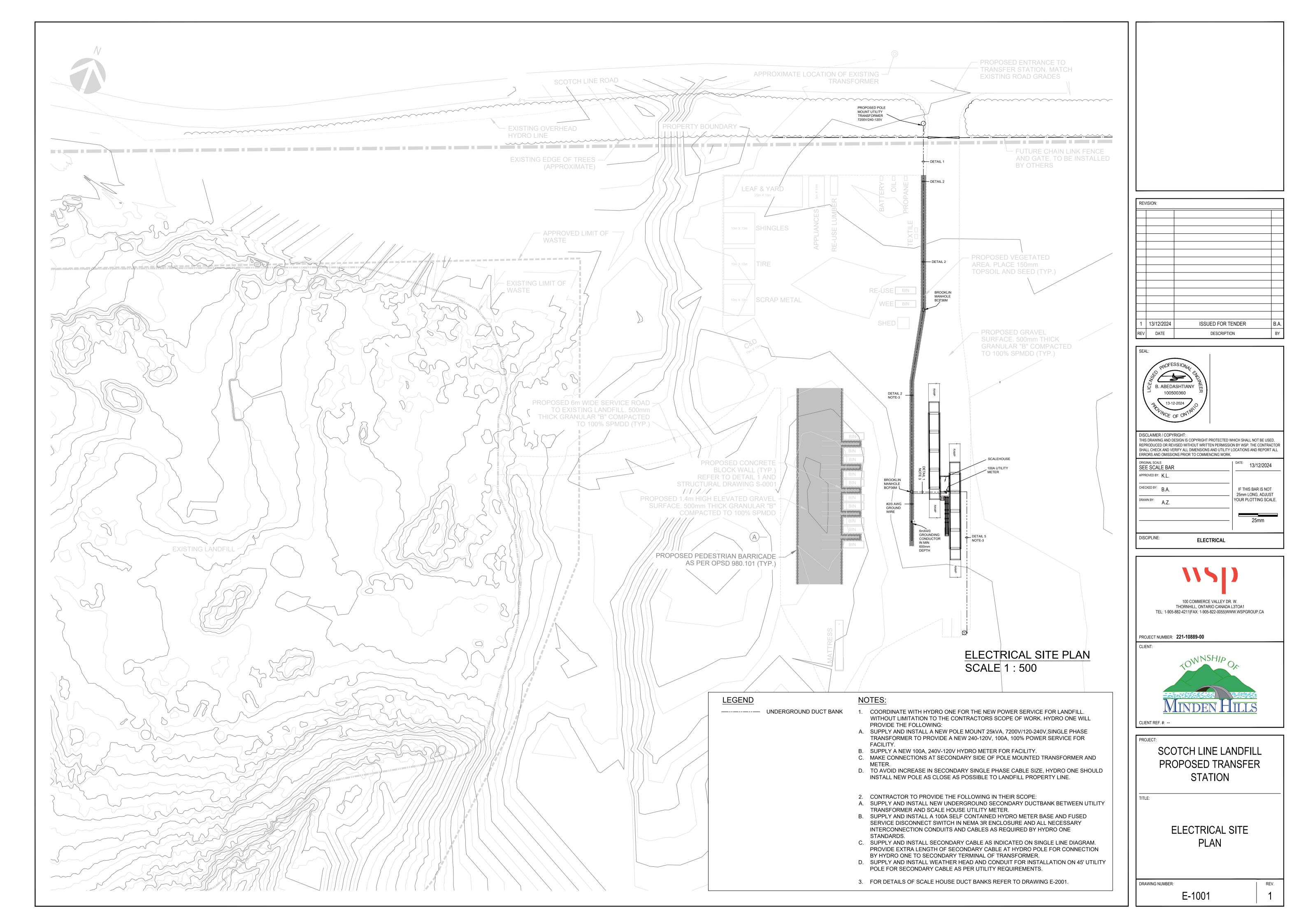
SCOTCH LINE LANDFILL PROPOSED TRANSFER STATION

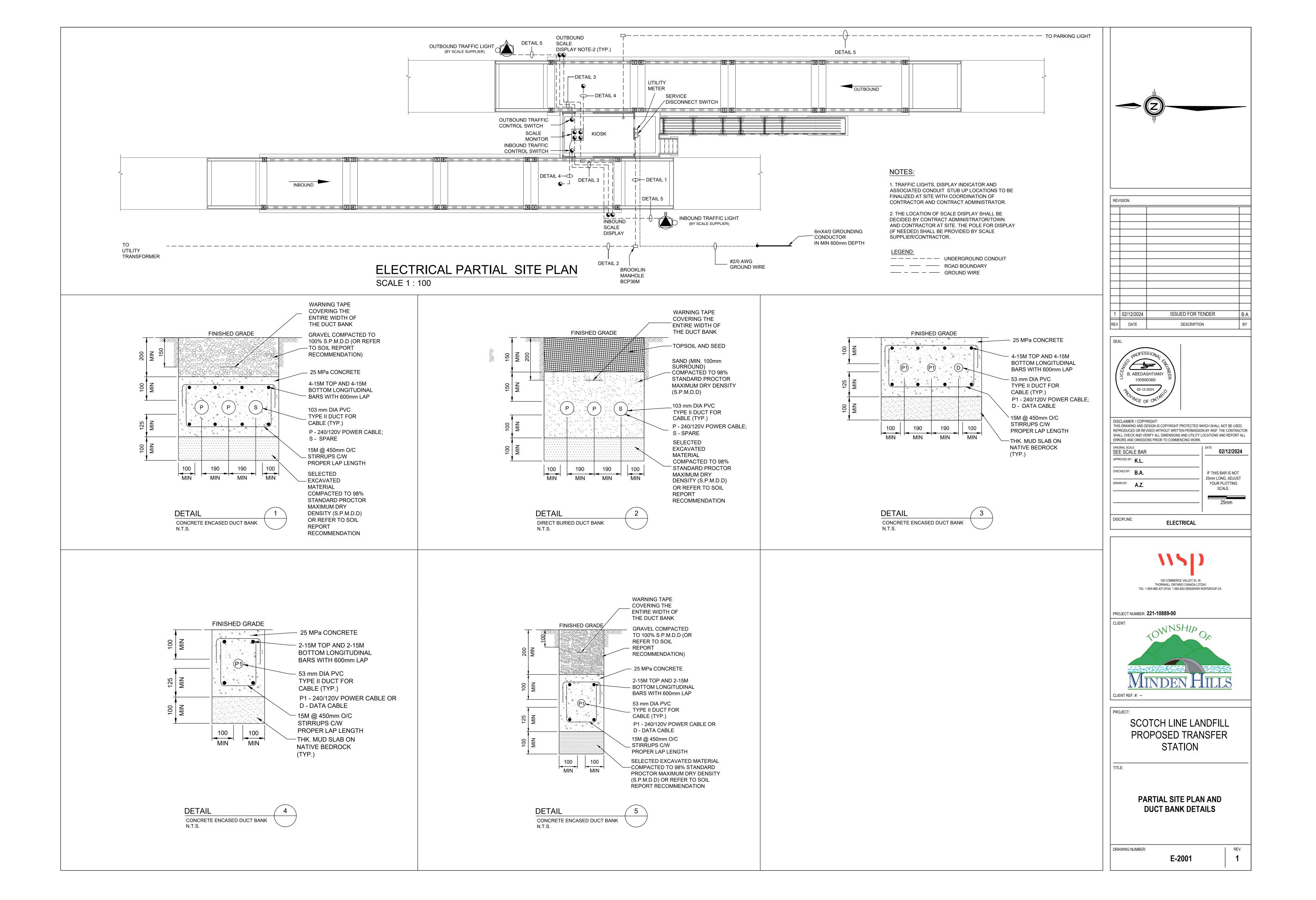
LEGEND AND ABBREVIATIONS

E-0001

DRAWING NUMBER:

REV.





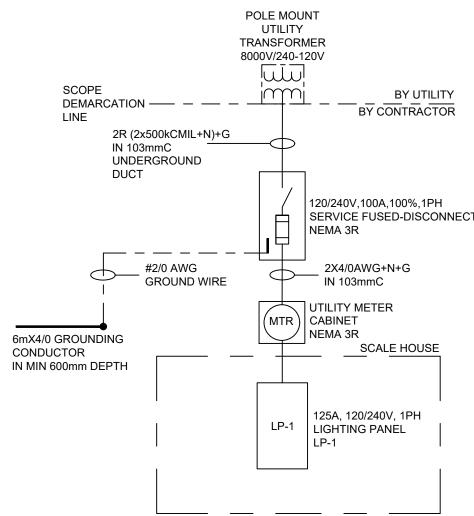
| | | | | LUMINAIRE SCHEDULE | | | | |
|------------|------|---------------------------------|----------------|--|--|----------------------------------|---|---------------------|
| SYMBOL | TYPE | VOLTS | INPUT WATTS | DESCRIPTION | LAMPS TYPE | BALLAST | MANUFACTURERS CATALOG NUMBER | MOUNTIN |
| L01 | LED | 120 | 37 | 1220mm (4') LED LIGHT FIXTURE, COLD ROLLED STEEL WITH EXTRUDED ALUMINUM HOUSING. POLYESTER_POWDER COAT PAINTED FINISHING. PRECISION-FORMED STEEL; HIGH REFLECTANCE MATTE WHITE POWDER COAT REFLECTOR. | 37W LED 5000K | LED DRIVER HIGH EFFICIENCY | 1. MARK ARCHITECTURAL LIGHTING, FCLED 4FT FLP 80CRI 50K 900LMF 2. APPROVED EQUAL | RECESSED CEILING |
| | LED | 120 | 46 | OUTDOOR WALL MOUNTED LED LIGHTING FIXTURE, CAST-ALUMINUM HOUSING . PRISMATIC POLYCARBONATE SHIELD, SEALED AND CASKETED REFLECTOR, BLACK, SUITABLE FOR BUILDING EXTERIOR APPLICATION | 46W LED 5000K | LED DRIVER HIGH EFFICIENCY | 1. EATON LUMARK WP Wal-Pak LED 2. HOLOPHANE WL2K SERIES 3. HUBBEL, WGH SERIES 4. APPROVED EQUAL | WALL |
| (E) | LED | 120 | 21 | FIXTURE: POLE MOUNTED, DIE-CAST ALUMINUM HOSUING WITH INTEGRAL HEAT SINK, BLACK CORROSION RESISTANT POLYESTER POWDER PAINT, 5000K, 3000 LUMENS, -40°C TO 50°C OPERATING TEMPERATURE, WITH PHOTOCELL. POLE: E200-APR-G-E11, ROUND, 20' 0" POLE. FIXTURE TO BE MOUNTED AT 4.57m. | 21W LED 5000K | LED DRIVER HIGH EFFICIENCY | 1. EVOLVE EACL01_A2AN750 SERIES 2. APPROVED EQUAL | POLE MOU |
| X1 BU-1 | LED | 120VAC IN./ 12VDC OUT. | 16 | BATTERY UNIT EMERGENCY LIGHT AND PICTOGRAM EXIT COMBINATION UNIT. SUITABLE FOR WET AND CORROSIVE LOCATION. LIGHT SOURCE 1. HIGH-EFFICIENCY LED. 2. FULLY FIELD ADJUSTABLE EMERGENCY LIGHTING HEADS ARE MR16 WHITE 12V 4W LED LAMPS. CHARGER FULLY AUTOMATIC ADVANCED DIAGNOSTIC MICRO-CONTROLLER. TESTS, DETECTS AND INDICATES BATTERY, CHARGER CIRCUITRY, LAMPS OR LED STRIP FAILURES. ELECTRICAL SEALED, MAINTENANCE-FREE NICKEL-CADMIUM BATTERY, 12V 20W FOR 30 MINUTES OF EMERGENCY OPERATION. SUITABLE FOR WET AND DAMP LOCATION (10°C TO 40°C) HOUSING NEMA-4X RATED HOUSING. FACEPLATES ARE MOLDED OF HEAVY-DUTY VANDAL-RESISTANT POLYCARBONATE, RUGGED UV-STABILIZED THERMOPLASTIC BODY, STAINLESS STEEL TAMPER-PROOF SCREWS. WHITE COLOR | 4W MR16 LED LAMP, BATTERY UNIT 12 VDC, 60W | | 1. EMERGI-LITE, ENC SERIES 2. STANPRO, SLBIFSERIES 3. AIMLITE, CRPN SERIES 4. APPROVED EQUAL | WALL |

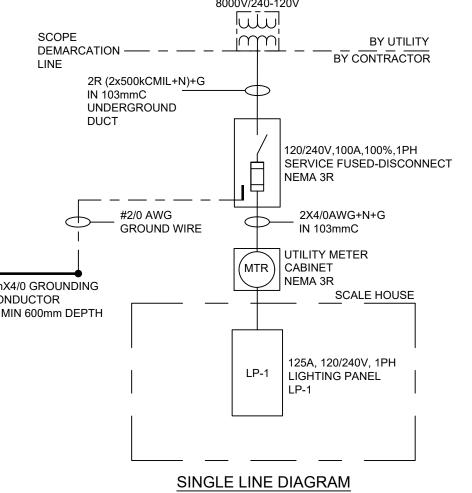
| PANEL IDENTIFICATION : | | | | | | | | | LE KIOSK | WITH SURGE PROTECTION DEVICE R 150A (SEE NOTE-1) |
|---------------------------------------|-----------|----------|-----------|----|-----------|----------------|-----------|----------|-----------|--|
| 120/240V IFH 3VV 15 | UA IVIAII | 1 00 | J. | | 237 | | | | | 150A (5-2:15:2:1) |
| DESCRIPTION | LOAD W | BKR A | CCT No | - | SN A B | <u> </u> } | CCT No | BKR A | LOAD W | DESCRIPTION |
| FFH-01 | 4000 | 50 | 1 | - | • | - | 2 | 15 | 600 | RECEPTACLES CONVENIENCE - 1 |
| FFH-02 | 4000 | 50 | 3 | _ | • | + | 4 | 15 | 800 | FRIDGE RECEPTACLE |
| AC-01 | 2400 | 25 | 5 | 4 | | - | 6 | 15 | 100 | TRAFFIC LIGHT CONTROL |
| RECEPTACLES DESK | 1600 | 20 | 7 | - | • | • | 8 | 15 | 127 | SCALE HOUSE LIGHTING |
| RECEPTACLES SERVICE WINDOW | 800 | 15 | 9 | 4 | | _ | 10 | 15 | 500 | SCALE MONITOR |
| OUTDOOR & PARKING LIGHTING (LCP-1) | 205 | 15 | 11 | - | • | • | 12 | 15 | 400 | RECEPTACLES CONVENIENCE - 2 |
| SPARE | | 15 | 13 | 4 | | _ | 14 | 15 | | SPARE |
| SPARE | | 15 | 15 | - | • | • | 16 | 15 | | SPARE |
| SPARE | | 15 | 17 | 4 | | - | 18 | 15 | | SPARE |
| SPACE | | | 19 | _ | • | • | 20 | | | SPACE |
| SPACE | | | 21 | 4 | | - | 22 | | | SPACE |
| SPACE | | | 23 | - | • | • | 24 | | | SPACE |
| TOTAL | | | | 15 | 532 | w | | | | |

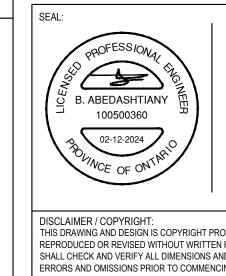
LIGHTING PANEL LP-1

NOTES:

- 1. FOR SPECIFICATION OF SURGE PROTECTION DEVICE (SPD) FOR LP-1 LIGHTING PANEL REFER TO
- SECTION 16612. THE SPD SHALL MEET THE REQUIREMENTS FOR HIGH EXPOSURE LEVELS. 2. CONTRACTOR SHALL FINALIZE THE LIGHTING PANEL FEEDER SIZES AFTER ALL EQUIPMENT SHOP
- DRAWING REVIEW. 3. CONTRACTOR IS RESPONSIBLE TO DISTRIBUTE LOAD EQUALLY BETWEEN PHASES OF LIGHTING PANELS. THE BRANCH CIRCUIT CONNECTIONS SHALL BE ADJUSTED AS REQUIRED TO OBTAIN THE BEST BALANCE OF CURRENT BETWEEN PHASES. THE MAXIMUM IMBALANCE SHALL NOT EXCEED 5% OF TOTAL
- CONNECTION LOAD. 4. CONTRACTOR TO PROVIDE NEW GROUNDING SYSTEM FOR THE STATION AND VERIFY THE LOCATION OF UTILITY SOURCE GROUNDING FOR CONNECTION. PROVIDE BONDING CONDUCTOR (MIN. #4/0 BARE COPPER) BETWEEN THE NEW SERVICE DISCONNECT SWITCH GROUNDING BUS AND UTILITY SOURCE GROUNDING SYSTEM.







DATE

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ISSUED FOR TENDER

DESCRIPTION

ELECTRICAL

100 COMMERCE VALLEY Dr. W. THORNHILL ONTARIO CANADA L3TOA1
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25mm

PROJECT NUMBER: **221-10889-00**



SCOTCH LINE LANDFILL PROPOSED TRANSFER STATION

SINGLE LINE, SCHEMATIC DIAGRAMS, PANEL AND LUMINARE SCHEDULES

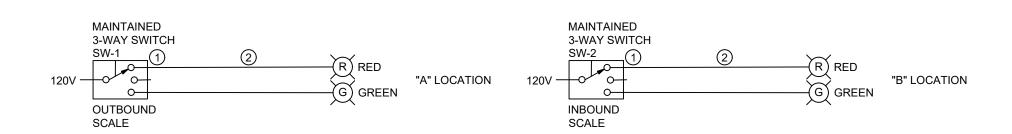
DRAWING NUMBER:

E-3001

REV.

1

- 1. PROVIDE A 120V MAINTAINED 3 WAY SWITCH (LEVER) EQUAL TO EATON CUTLER HAMMER CATALOGUE #E22VBG10. SWITCH SHALL BE INSTALLED IN SUITABLE NEMA 3R ENCLOSURE IN SCALE HOUSE AS SHOWN ON DRAWING. CO-ORDINATE WITH THE CONTRACT ADMINISTRATOR AND CLIENT FOR LOCATION AND MOUNTING HEIGHT.
- 2. PROVIDE WIRING AND CONDUIT FROM SWITCH TO TRAFFIC LIGHTS AS SHOWN IN E-1001.



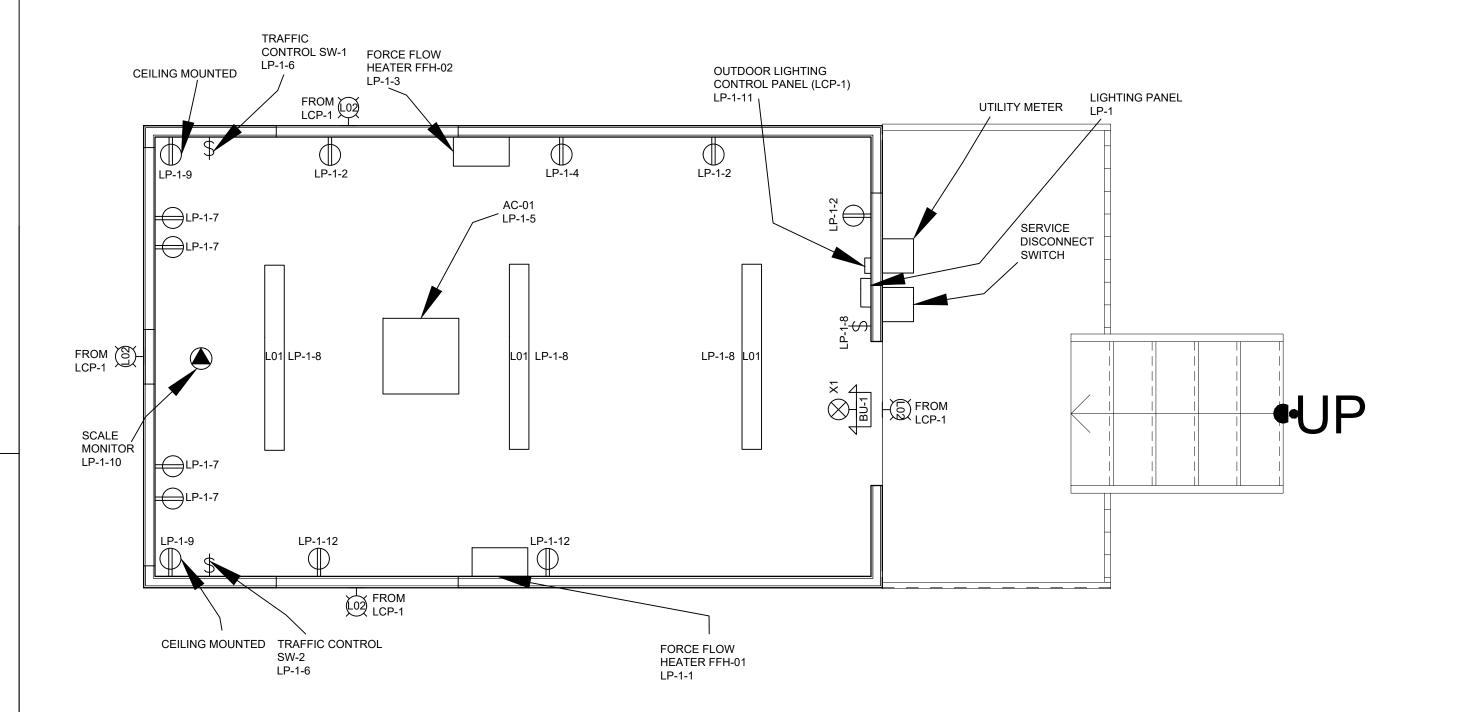
OUTBOUND SCALE TRAFFIC CONTROL

INBOUND SCALE TRAFFIC CONTROL

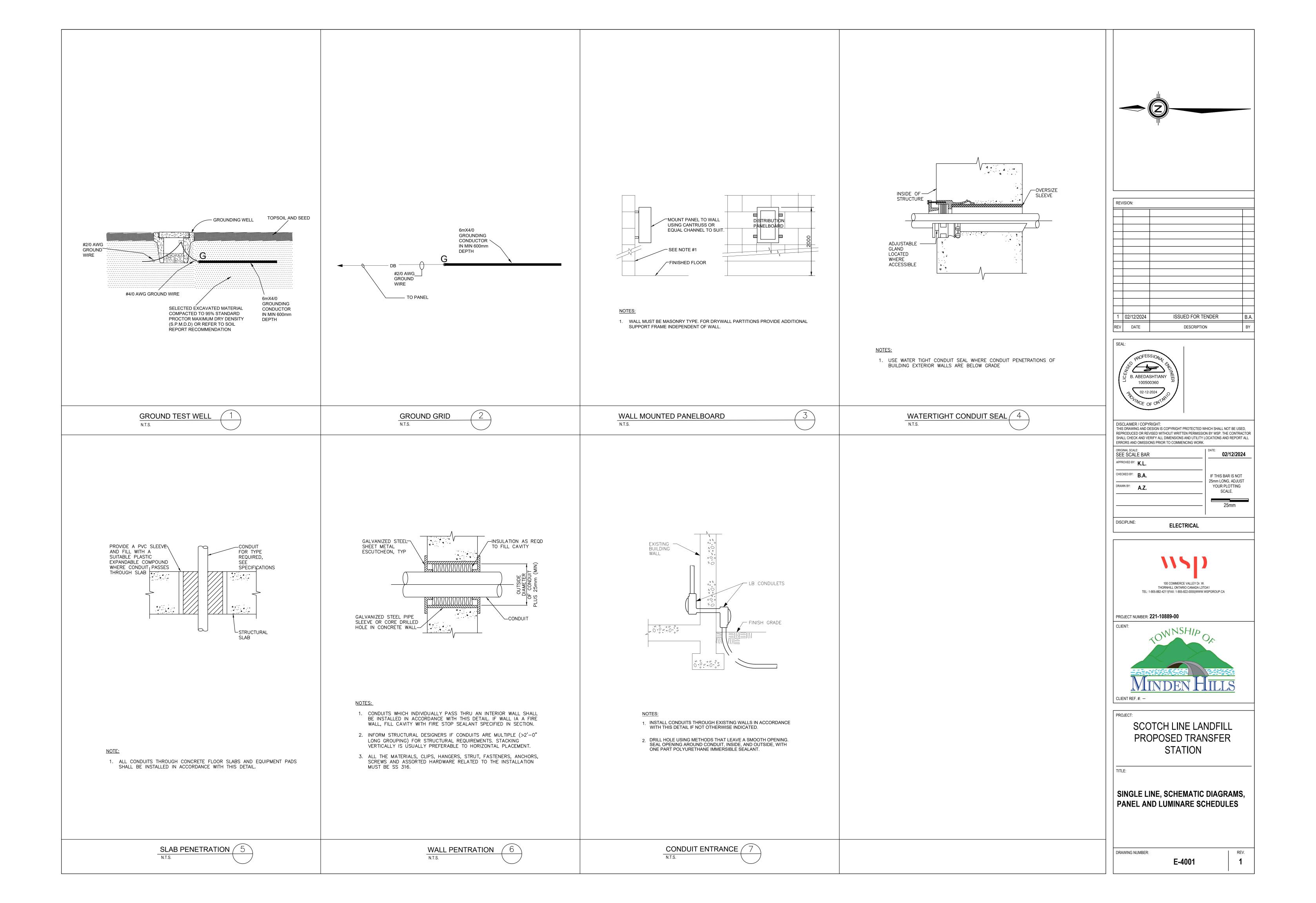
SCALE HOUSE TRAFFIC LIGHTS SCHEMATICS DETAIL N.T.S.

NEMA 12 ENCLOSURE, WALL MOUNTED "PHOTOCELL" 120V FROM LP-1-11 OUTDOOR LIGHTING 1X (LS) PARKING LIGHTING

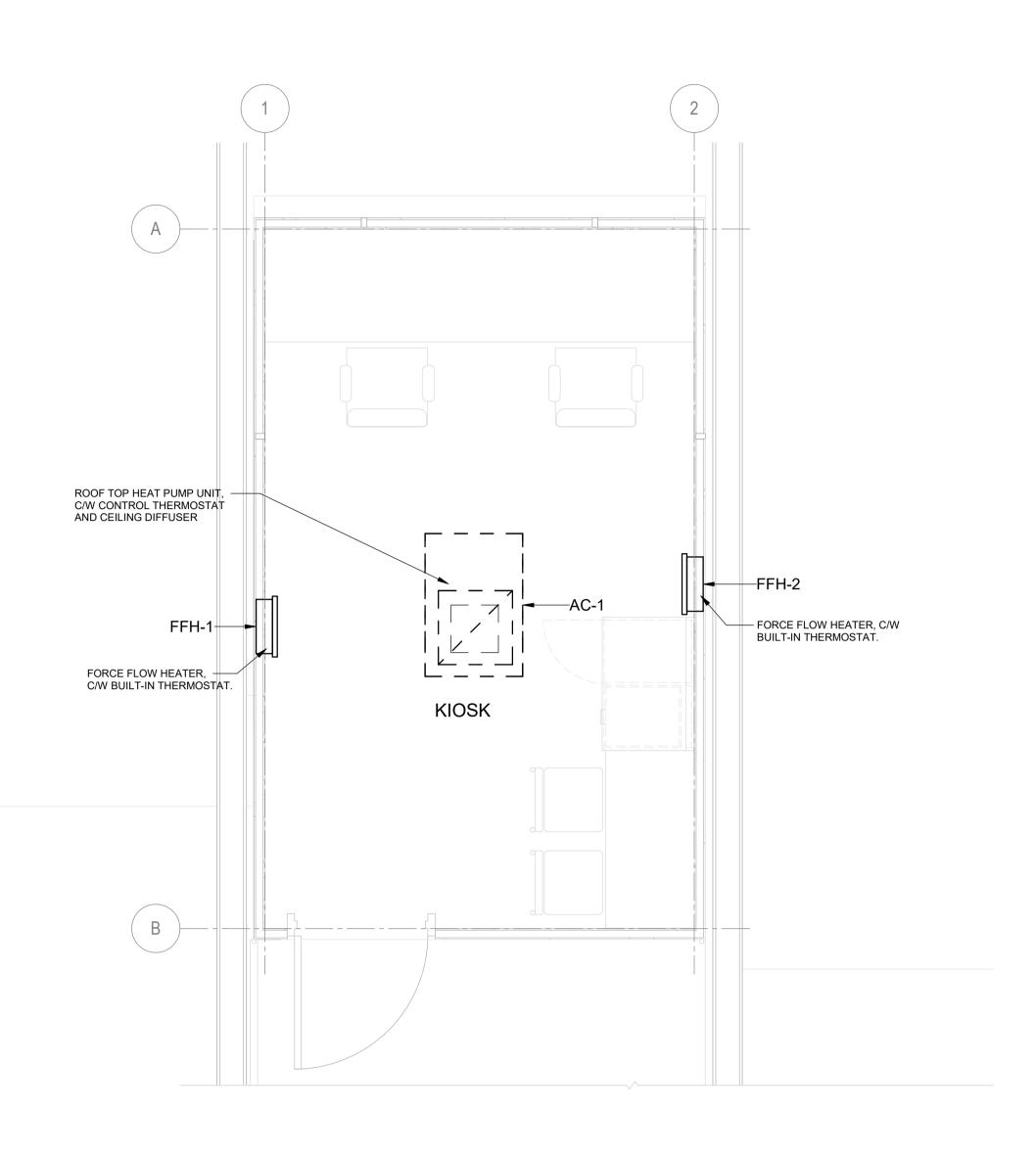
OUTDOOR & PARKING LIGHTING CONTROL PANEL WIRING DIAGRAM LCP-1



POWER & LIGHTING LAYOUT SCALE 1:25



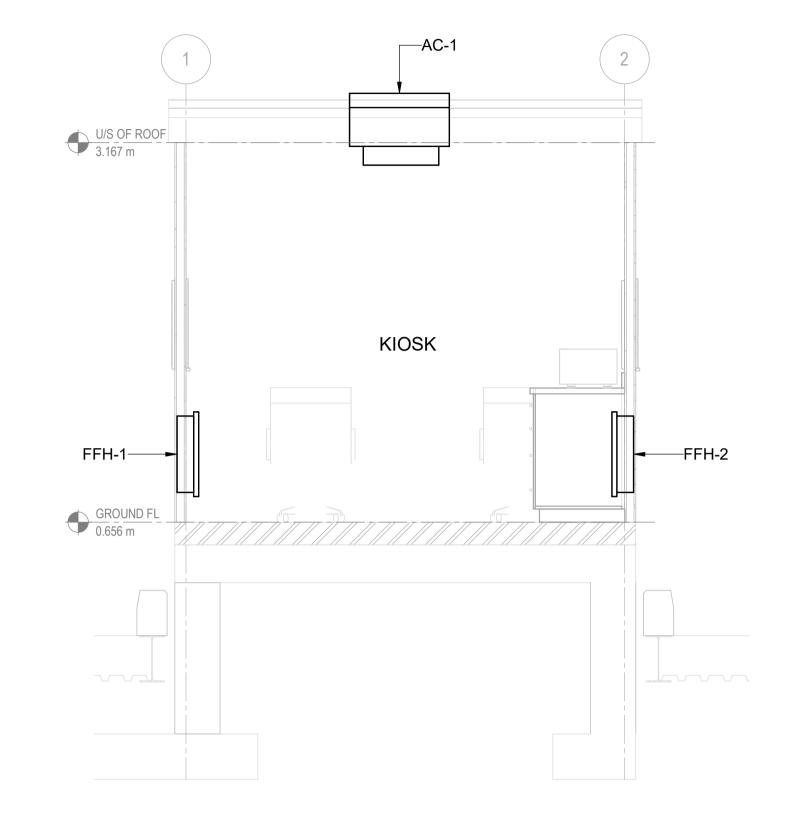




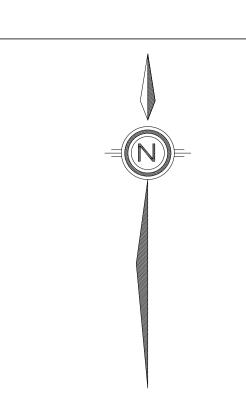


| | ROOFTOP HEATPUMP UNIT SCHEDULE | | | | | | | | | | | |
|-------------|--------------------------------|-----------------|----------------------------|------------------|---------------|-------------------|---------|---------------------|---------------------------------|----------------|---|--|
| | | | | COOLING | HEATING | HEATING ELECTRICA | | ATA | | | | |
| TAG No. | DESCRIPTION | LOCATION | TOTAL AIR FLOW (L/S) | CAPACITY (KW) | CAPACITY (KW) | V/PH/Hz | FLA (A) | HEATING AMPS (A) | COMPRESSOR LOCK ROTOR (A) | WEIGHT (KG) | REMARKS | |
| AC-1 | HEAT PUMP UNIT | ROOF | 151 | 3.95 | 1.64 | 115/1/60 | 13.1 | 16.0 | 20.0 | 50.0 | C/W DISCONNECT SWITCH, CONTROL THERMOSTAT AND CEILING ASSEMBLIES | |
| NOTE: THE F | HEATPUMP UNIT IS SUPPLY | BY PRE-FAB MANU | FACTURER AND | O INSTALL BY TH | HE CONTRACTO | OR . | | | | | | |

| ELECTRIC UNIT HEATER SCHEDULE | | | | | | | | | | |
|-------------------------------|--------------------|----------|-------------------|------------------|-----------------|---------------|--------|--|--|--|
| | AG No. DESCRIPTION | | TOTAL | HEATING | ELECTRICAL DATA | | WEIGHT | | | |
| TAG No. | | LOCATION | AIR FLOW (L/S) | CAPACITY (KW) | V/PH/Hz | POWER (KW) | (KG) | REMARKS | | |
| FFH-1 | FORCE FLOW HEATER | KIOSK | - | 4.0 | 120/1/60 | 4.0 | - | C/W DISCONNECT SWITCH, BUILT-IN CONTROL THERMOSTAT | | |







| REV | ISION: | | |
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| 1 | 11.29.24 | ISSUED FOR TENDER | PF |
| REV | DATE | DESCRIPTION | BY |



DISCLAIMER / COPYRIGHT:
THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED,
REPRODUCED OR REVISED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR
SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL
ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK.

| ORIGINAL SCALE: SEE SCALE BAR | DATE: 06/07/24 |
|----------------------------------|--------------------------------------|
| APPROVED BY: P.P. | |
| CHECKED BY: | IF THIS BAR IS NOT 25mm LONG, ADJUST |
| DRAWN BY: P.P. | YOUR PLOTTING SCALE. |
| | 25mm |

DISCIPLINE:



PROJECT NUMBER:



SCOTCH LINE LANDFILL PROPOSED TRANSFER STATION

SCALE KIOSK - HVAC PLAN AND SECTION

DRAWING NUMBER:

M-1001

REV.

NOTES:

1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OBC, ASHRAE, AND BEST PRACTICES.

2. ALL DIMENSIONS ARE IN 'mm' UNLESS OTHERWISE NOTED.

3. COORDINATE ALL WORK WITH OUT TRADES PRIOR TO ORDERING MATERIALS AND EQUIPMENT, AND PRIOR TO INSTALLATION.

4. REPORT ANY CONFLICTS / OMISSIONS TO THE ENGINEER IMMEDIATELY UPON RECOGNITION OF ISSUE.

5. LOCATE ALL EQUIPMENT IN SUCH A MANNER SO AS TO MAXIMAIZE AVAILABLE HEADSPACE BELOW.