



150 Commerce Valley Drive West, Thornhill, ON, Canada L3T 7Z3
Tel: (905) 822-1100 Fax: (905) 822-0055 www.wsp.com



SCOTCH LINE LANDFILL PROPOSED TRANSFER STATION

PROJECT NUMBER: 221-10889-00

ISSUED FOR TENDER
DECEMBER 2024

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C-1002	PROPOSED TRANSFER STATION
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E-4001	SINGLE LINE, SCHEMATIC DIAGRAMS, PANEL AND LUMINARE SCHEDULES
M-1001	SCALE KIOSK - HVAC PLAN AND SECTION






SEAL:

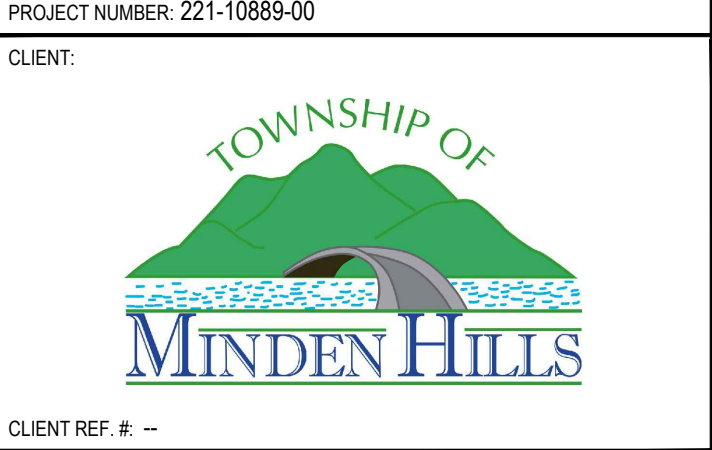


The seal is circular with a double-line border. The outer ring contains the text "LICENSED PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom. The center of the seal features a signature "I. F. Hasan" above the license number "100194703". Below the license number is a rectangular box containing the expiration date "2024-12-12".

ORIGINAL SCALE: SEE SCALE BAR	DATE: 2024-12-12
APPROVED BY: IFH	<p>IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.</p>  <p>25mm</p>
CHECKED BY: JJO	
DRAWN BY: IFH	

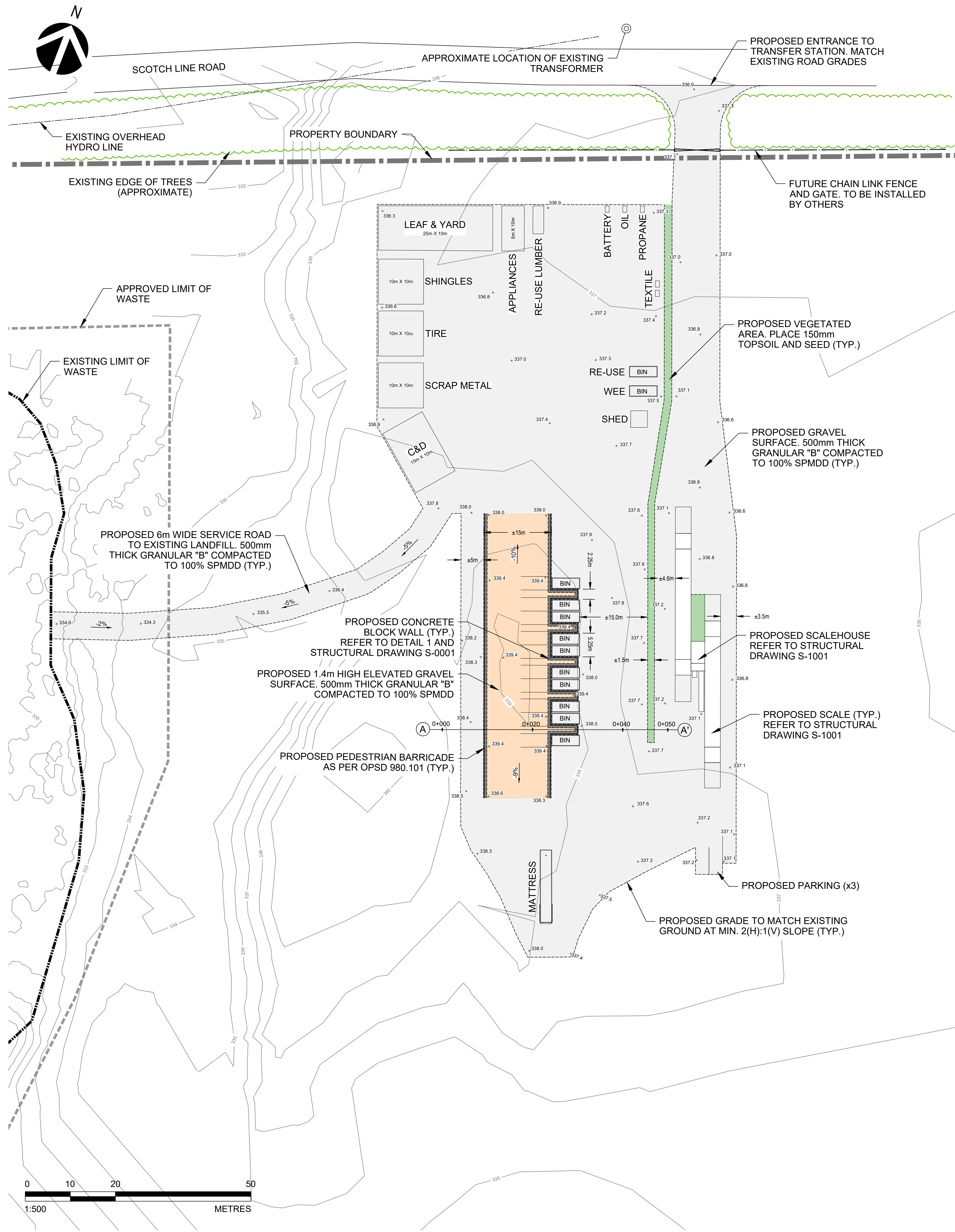
wsp

WSP Canada Inc.
300 - 4 Hughson Street South, Hamilton, Ontario, L8N 3Z1
T 905-529-4414 | www.wsp.com



DRAWING NUMBER:	REV.
C-101	4

OTB: one colour - 36 inch
CUT: 1/8" = 1' - 12/11/2024 12:42:43 PM
FILE: c:\users\shrik\workspace\360\221-10889-00 - 14 inch.pdf services\issued for tender\221-10889-00 - scotch line transfer station - 12/22/2024.dwg

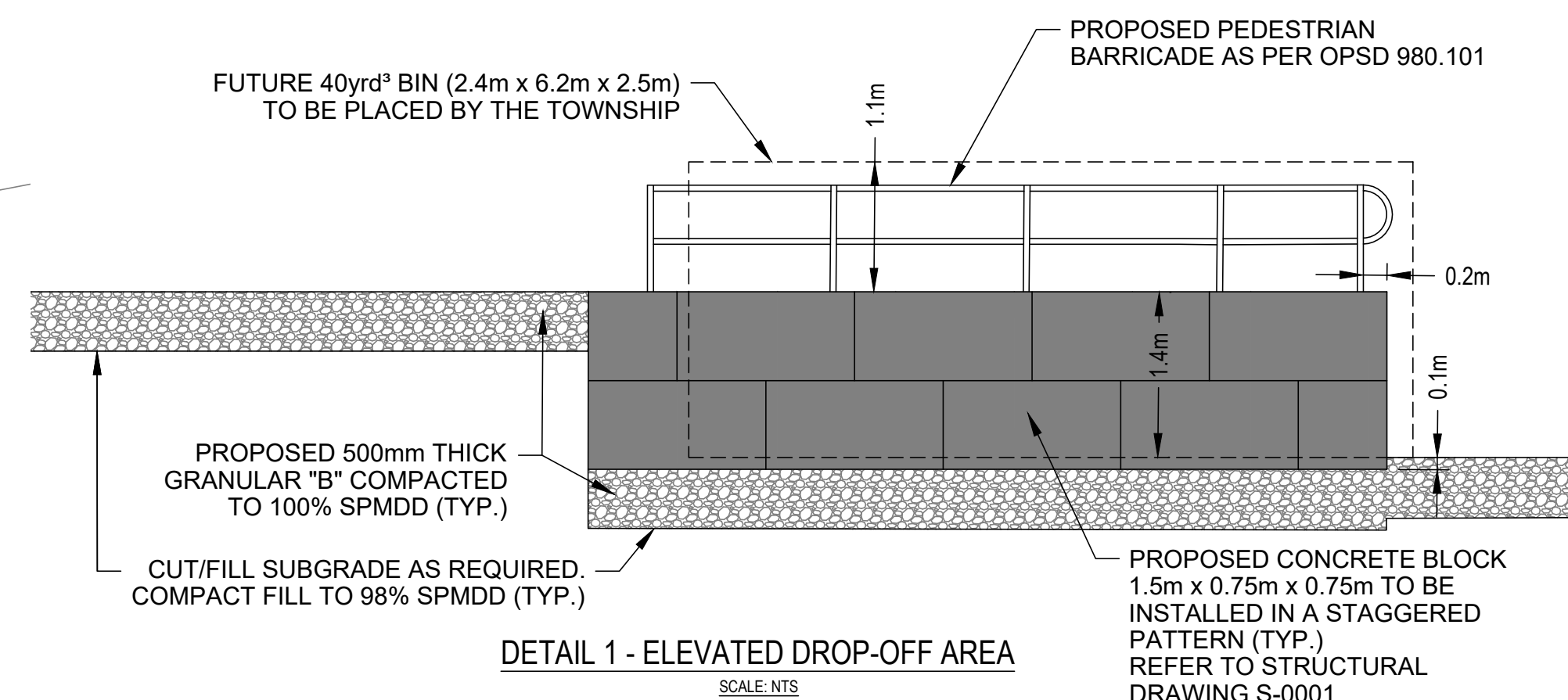
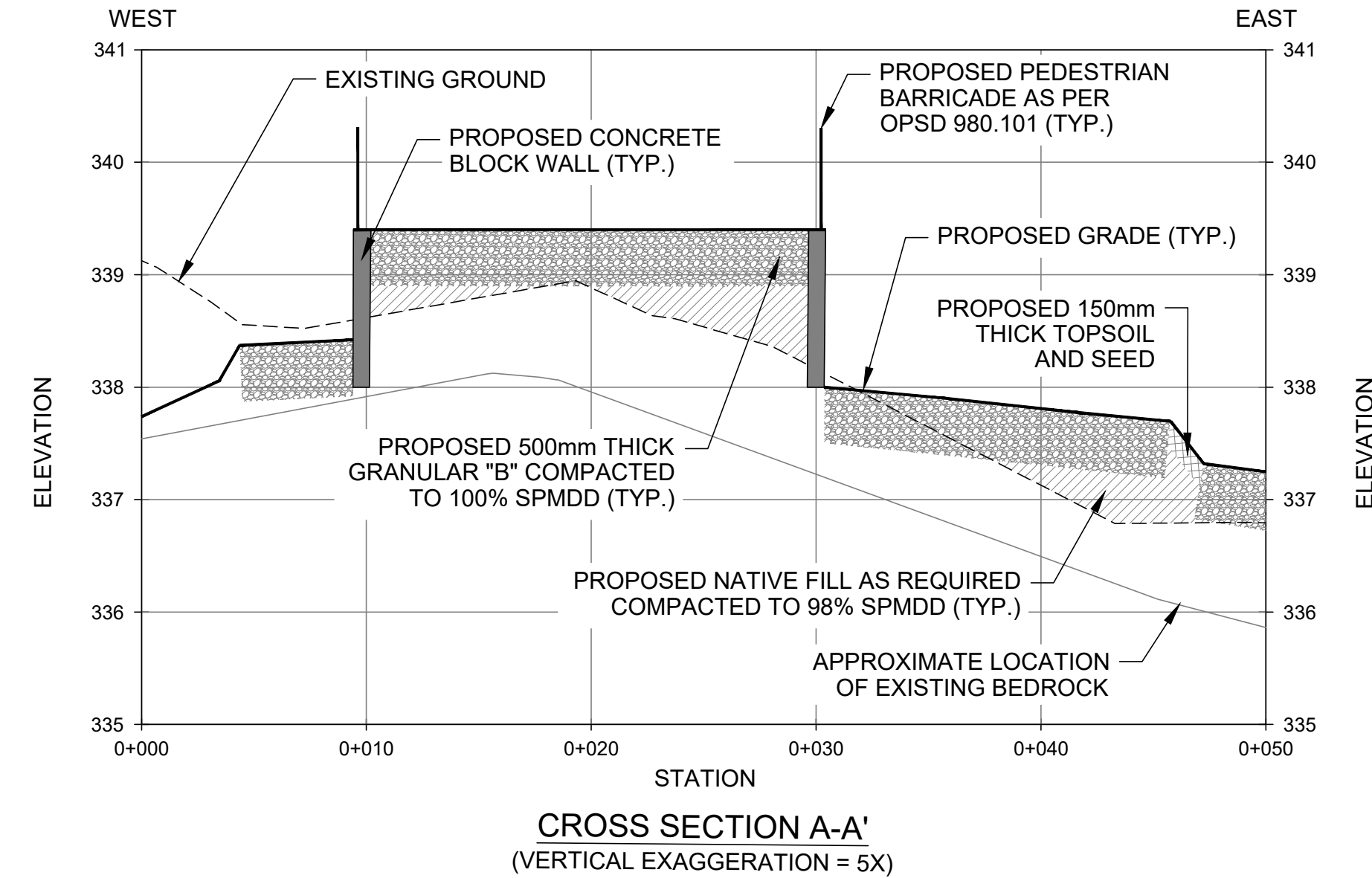


LEGEND

---	PROPERTY BOUNDARY
---	APPROVED LIMIT OF WASTE
---	EXISTING LIMIT OF WASTE
---	EXISTING OVERHEAD HYDRO LINE
---	EXISTING CONTOURS
---	EXISTING EDGE OF TREES
---	PROPOSED FINISHED GRADE
---	PROPOSED GRAVEL SURFACE
---	PROPOSED ELEVATED GRAVEL SURFACE
---	PROPOSED TOPSOIL SURFACE
---	PROPOSED CONCRETE BLOCK WALL
---	PROPOSED PEDESTRIAN BARRICADE
---	FUTURE CHAIN LINK FENCE (BY OTHERS)

NOTES:

- THE EXISTING UTILITY LOCATIONS ARE APPROXIMATE, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND ELEVATION OF EXISTING SERVICES AND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PUBLIC AND PRIVATE UTILITY LOCATES PRIOR TO EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND REINSTATEMENT OF EXISTING SERVICES AND UTILITIES.
- ALL DISTURBED AREAS ARE TO BE REINSTATED TO EQUAL OR BETTER CONDITION TO THE SATISFACTION OF THE CITY AND ENGINEER.
- ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT" AND REGULATIONS FOR CONSTRUCTION PROJECTS. THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.



REVISION:

REV	DATE	DESCRIPTION	BY
4	2024-12-12	ISSUED FOR TENDER	IFH
3	2024-11-13	ISSUED FOR CLIENT REVIEW	IFH
2	2024-05-09	ISSUED FOR CLIENT REVIEW	IFH
1	2024-02-14	ISSUED FOR CLIENT REVIEW	JO

SEAL:



DISCLAIMER / COPYRIGHT:
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ORIGINAL SCALE: SEE SCALE BAR	DATE: 2024-12-12
APPROVED BY: I F H	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
CHECKED BY: J J O	
DRAWN BY: I F H	

DISCIPLINE: CIVIL



PROJECT NUMBER: 221-10889-00

CLIENT:



CLIENT REF. #: --

PROJECT:

SCOTCH LINE LANDFILL
PROPOSED TRANSFER STATION

TITLE:

PROPOSED TRANSFER
STATION

DRAWING NUMBER: C-102

REV: 4



A. KIOSK IS TO BE PRE-ENGINEERED. PLAN, ELEVATIONS AND SECTIONS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. SUBMIT P. ENG. STAMPED SHOP DRAWINGS FOR REVIEW AND APPROVAL.

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

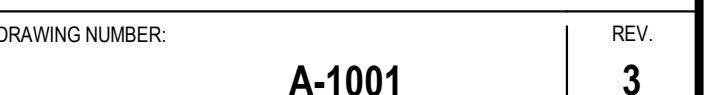
C. KIOSK IS TO BE CONSTRUCTED WITH EXTRUDED ALUMINUM FRAMING WITH WALL PANEL. PANELS TO CONSIST OF MELAMINE COMPOSITE BOARD, RIGID INSULATION CORE, AND CLEAR ANODIZED ALUMINUM SHEET. ROOF IS TO BE METAL ROOFING ON ROOF RAFTERS WITH BATT INSULATION INFILL. FLOOR IS TO BE METAL DECK ON STEEL FRAME FINISHED 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.

D. DOOR SIZE: - 900 x 2100
DOOR HARDWARE:
- 4.5" BUTT HINGES
- WEATHER STRIPPING
- THRESHOLD
- DOOR CLOSER
- PUSH BAR/PULL HANDLE
- KEYED DEADBOLT LOCK w/ INTERIOR THUMB TURN
- TRANSFER HINGE AND DOOR CONTACT
- POWER DOOR OPERATORS

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

F. SEE CIVIL DRAWINGS FOR FINAL KIOSK LOCATION.

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

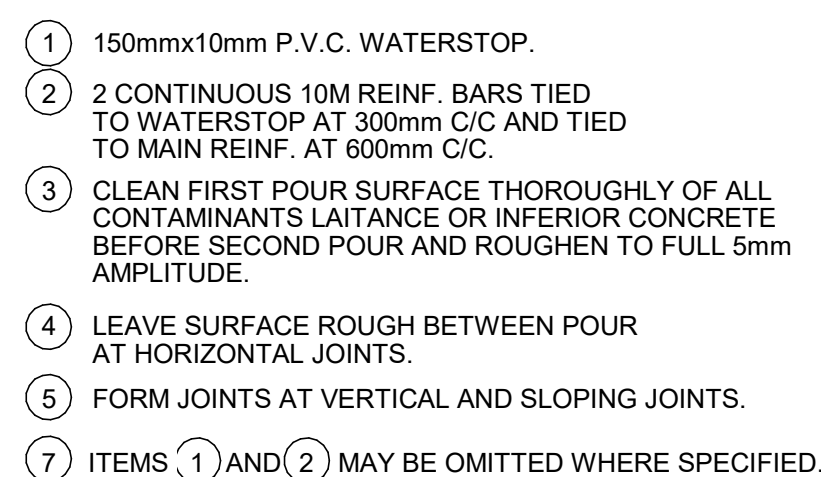




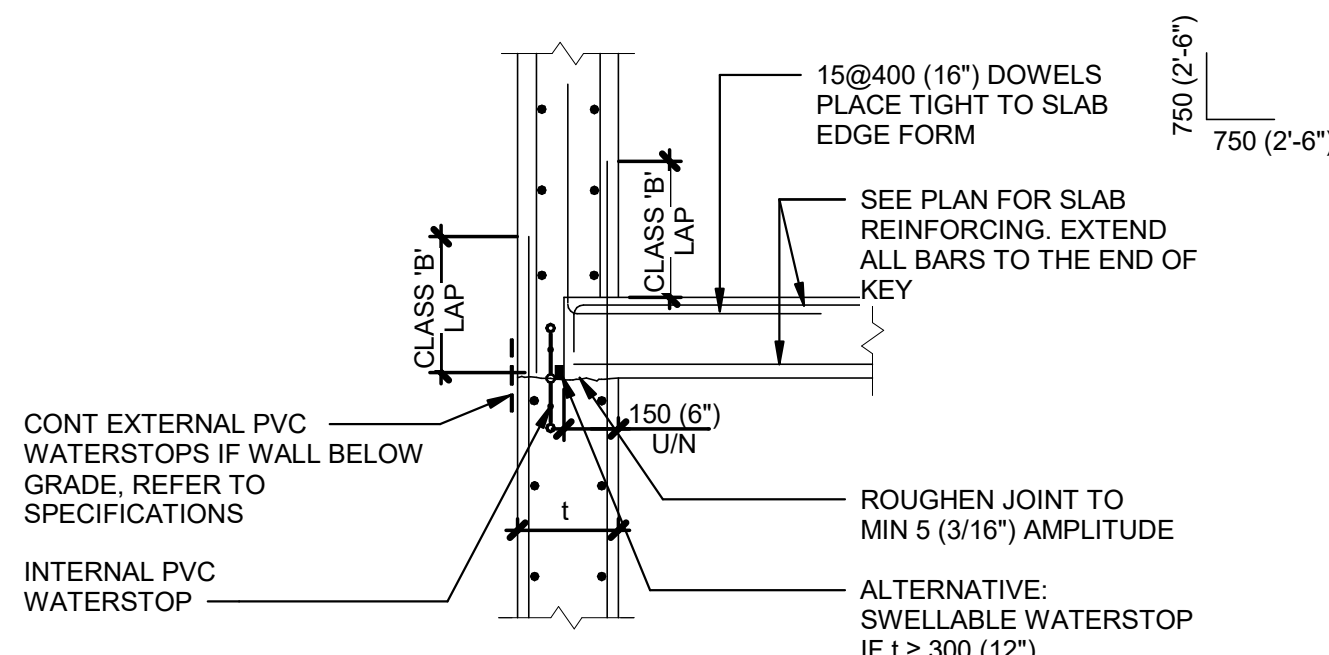
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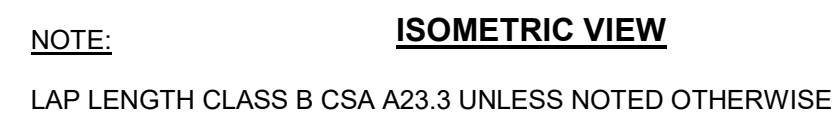
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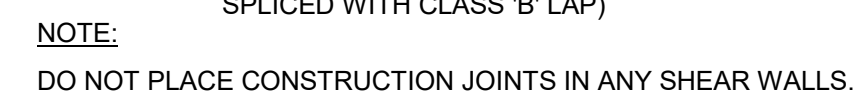
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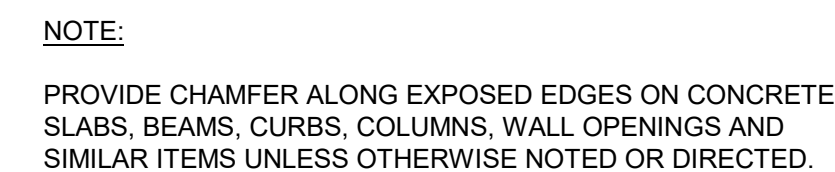


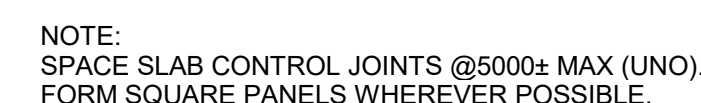
NTS



NTS




NTS

NTS


NTS

SEAL:



The seal is circular with the text "LICENSED PROFESSIONAL ENGINEER" around the top and "PROVINCE OF ONTARIO" around the bottom. In the center, it reads "MOSTAFA ELSAYED", "100578705", and "Nov. 29, 2024". A signature is written across the top half of the seal.

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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: APRIL 2023
APPROVED BY: R.L.	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
CHECKED BY: R.L.	
DRAWN BY: A.Z.	
	

DISCIPLINE: **STRUCTURAL**



CLIENT REF. #: --

SCOTCH LINE LANDFILL
PROPOSED TRANSFER
STATION

TITLE:

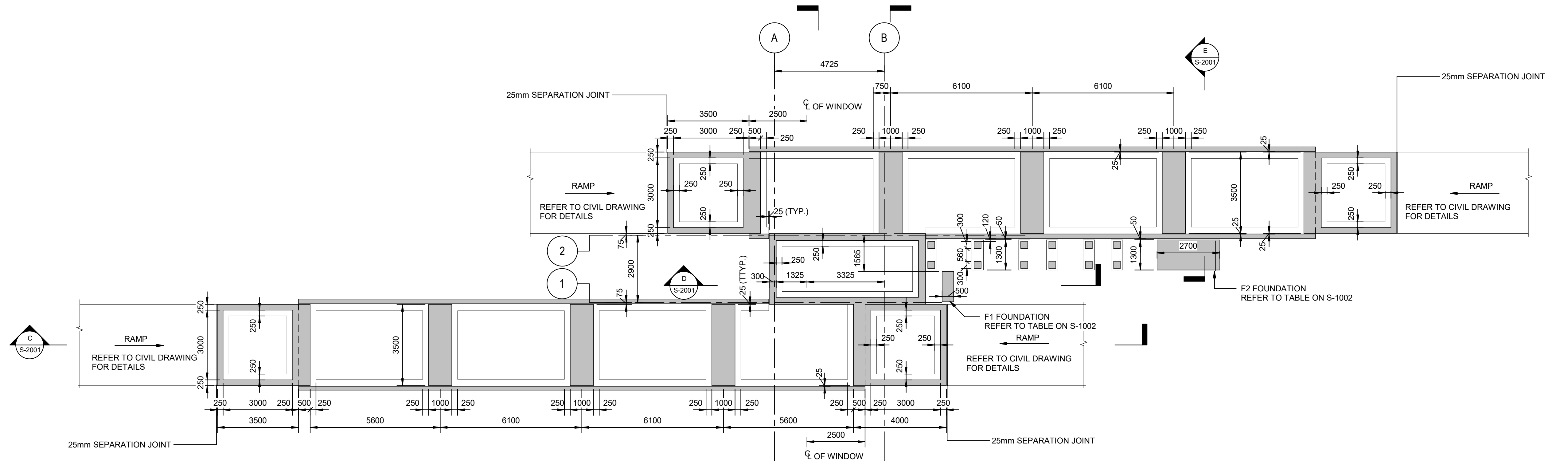
STANDARD DETAILS (2)

DRAWING NUMBER:

S-0002

REV

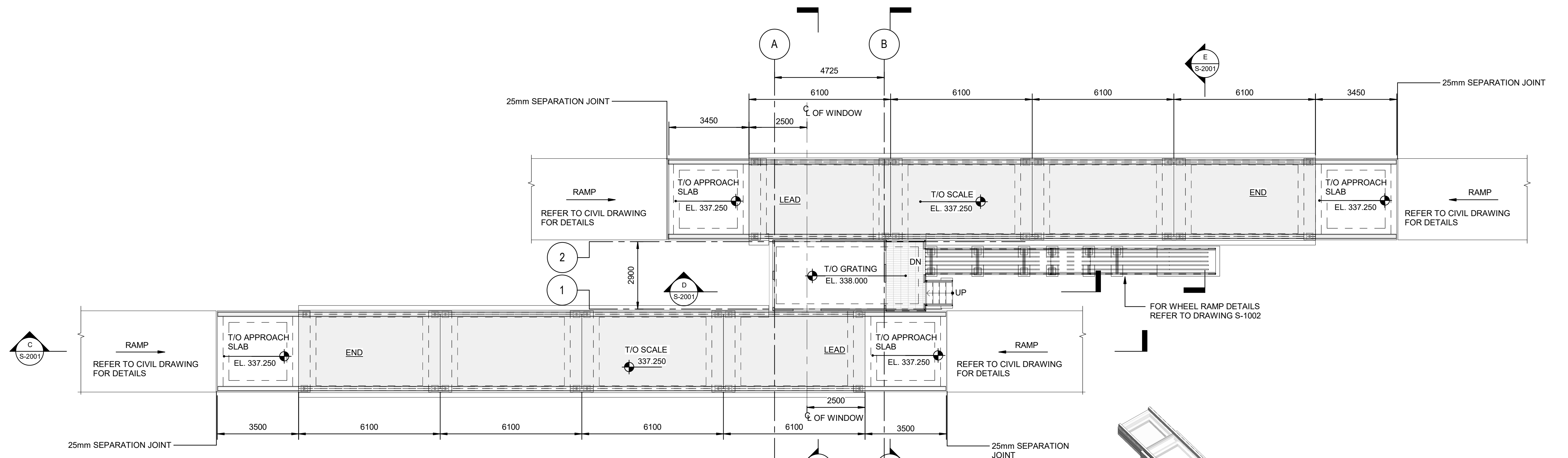
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FOUNDATION PLAN

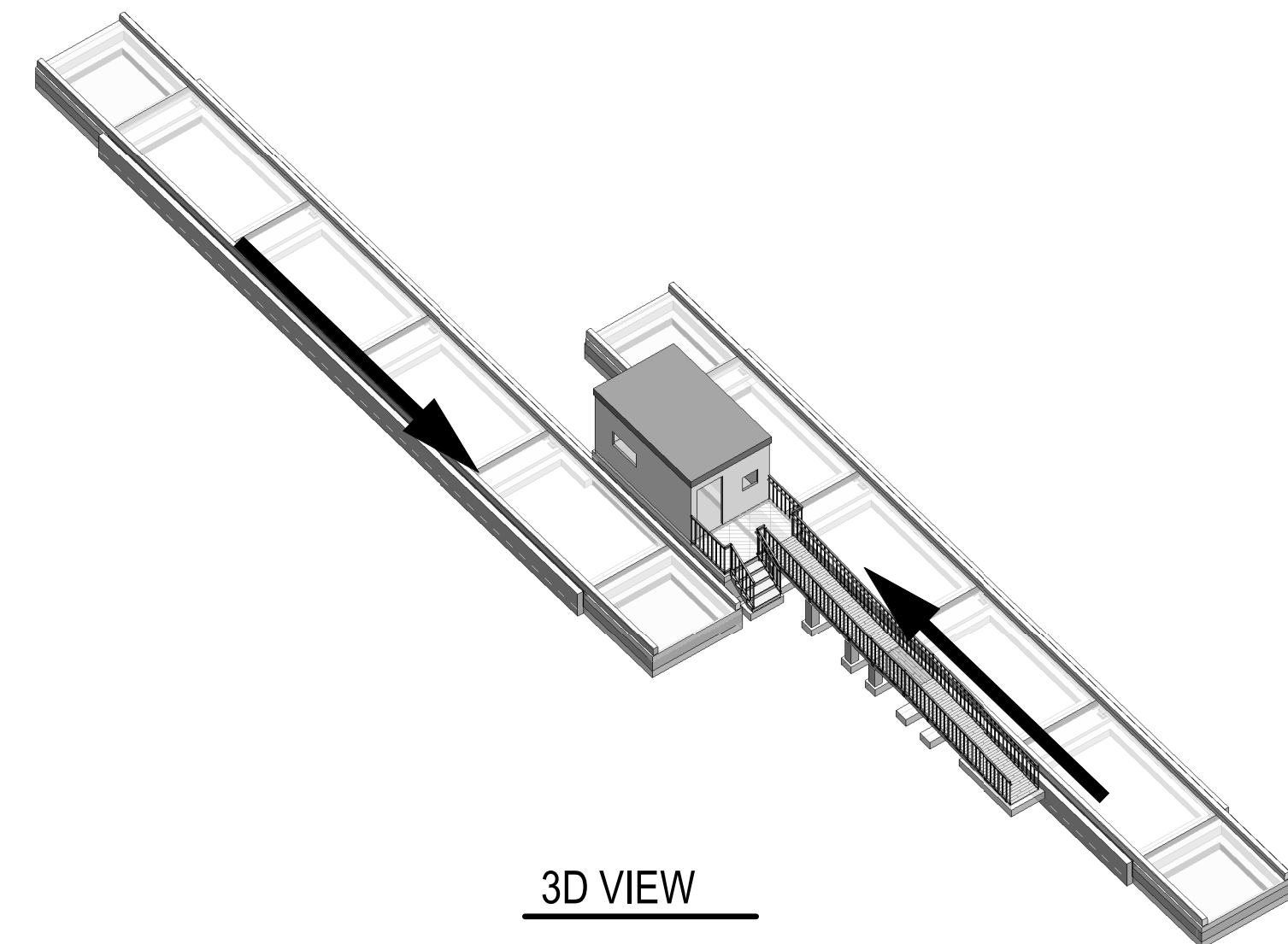
1:100

NOTE:
TOP OF FOUNDATION IS 336.600, UNLESS OTHERWISE NOTED.

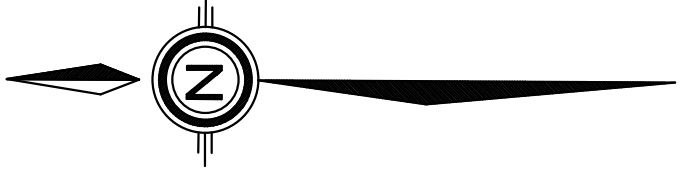


MAIN FLOOR PLAN

1:100



3D VIEW



REVISION:			
REV	DATE	DESCRIPTION	BY
5	DEC 2024	ISSUED FOR TENDER	M.E.
4	NOV 2024	ISSUED FOR 100% SUBMISSION	M.E.
3	SEPT 2024	ISSUED FOR PERMIT	M.E.
2	AUG 2024	ISSUED FOR 90% DETAILED DESIGN	M.E.
1	JUNE 2024	ISSUED FOR 30% PRELIMINARY DESIGN	M.E.



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ORIGINAL SCALE: SEE SCALE BAR	DATE: 2024-06-12
APPROVED BY: R.L.	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
CHECKED BY: R.L.	
DRAWN BY: M.L.	

DISCIPLINE:



PROJECT NUMBER:

CLIENT:



CLIENT REF. #:

PROJECT:

SCOTCH LINE LANDFILL
PROPOSED TRANSFER
STATION

TITLE:

OVERALL PLAN

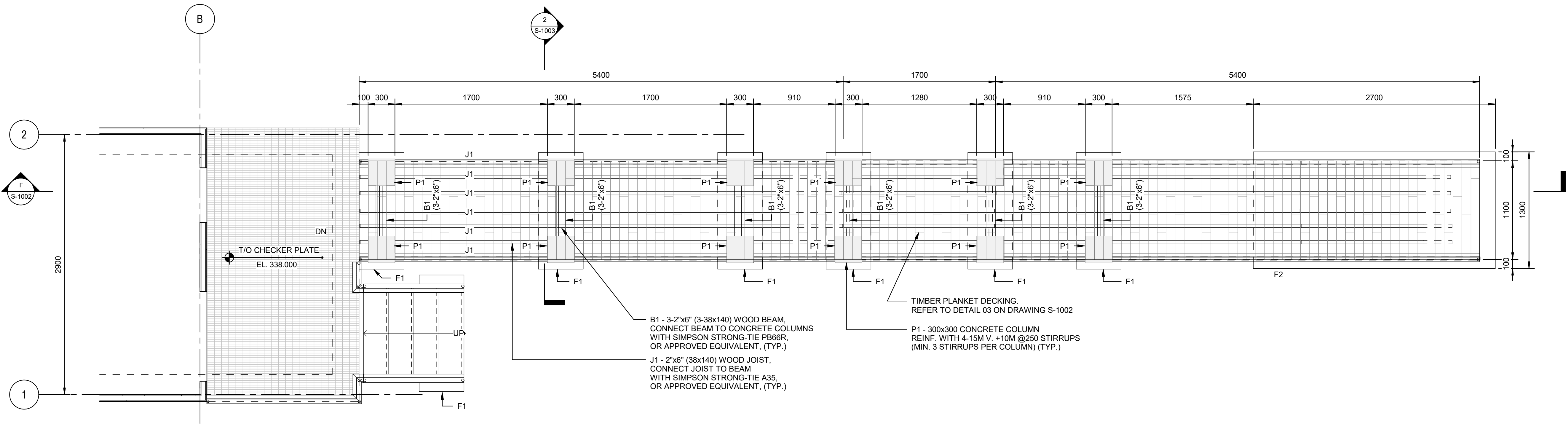
DRAWING NUMBER:

S-1001

REV:

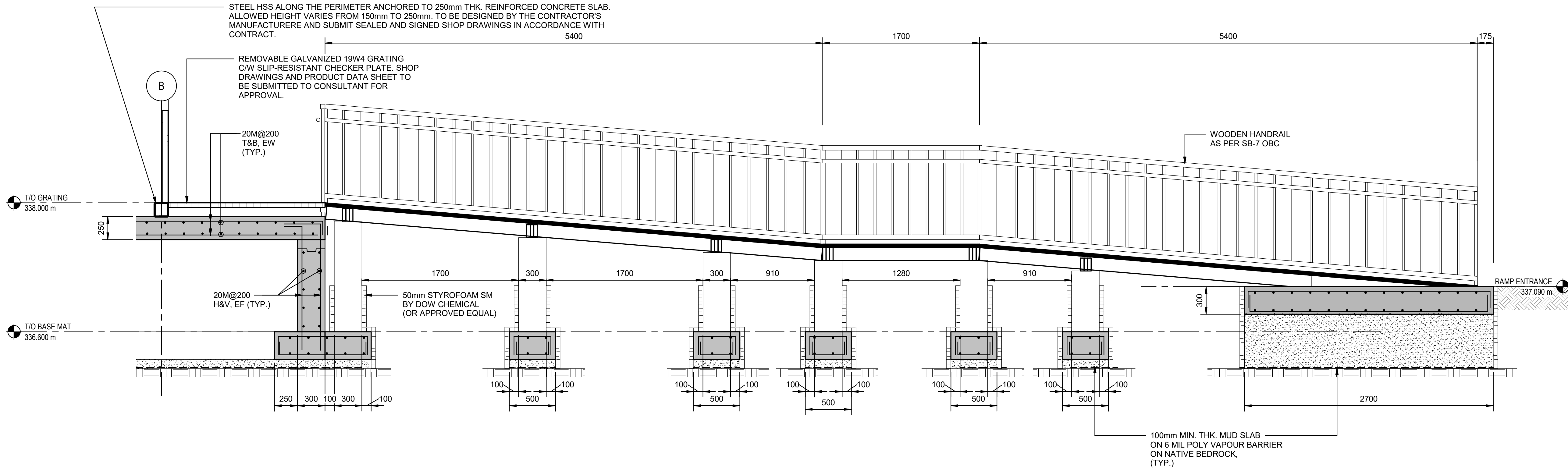
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MARK	MUD SLAB			REINFORCED CONCRETE			LOWER LAYER REINFORCEMENT		UPPER LAYER REINFORCEMENT	
	LENGTH (mm)	WIDTH (mm)	THICKNESS(mm)	LENGTH (mm)	WIDTH (mm)	THICKNESS(mm)	SHORT DIRECTION	LONG DIRECTION	SHORT DIRECTION	LONG DIRECTION
F1	1300	500	100 (MIN.)	1300	500	300	6-15M	3-15M	6-15M	3-15M
F2	1300	2700	200 (MIN.)	1300	2700	300	6-15M	5-15M	6-15M	5-15M



WHEEL CHAIR RAMP PLAN

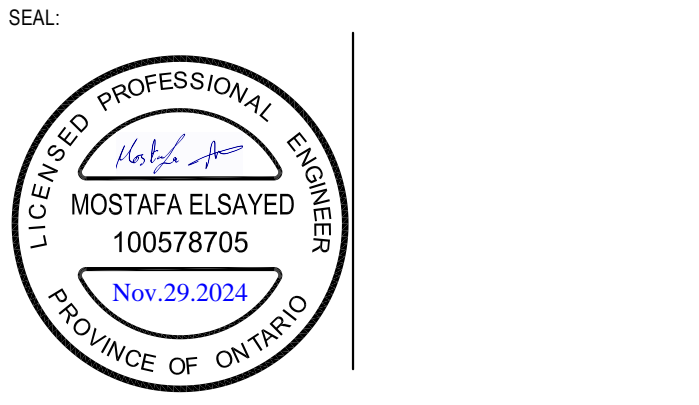
1:25



SECTION

1:25

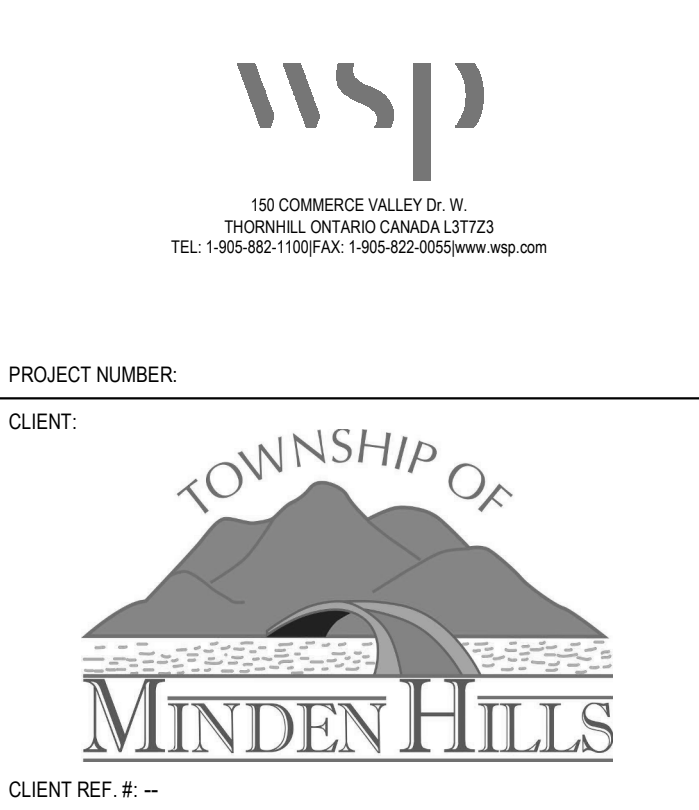
REV	DATE	DESCRIPTION	BY
4	DEC. 2024	ISSUED FOR TENDER	M.E.
3	NOV. 2024	ISSUED FOR 100% SUBMISSION	M.E.
2	SEPT. 2024	ISSUED FOR PERMIT	M.E.
1	AUG. 2024	ISSUED FOR 90% DETAILED DESIGN	M.E.



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ORIGINAL SCALE: SEE SCALE BAR	DATE: 08/16/24
APPROVED BY: R.L.	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
CHECKED BY: R.L.	
DRAWN BY: A.Z.	

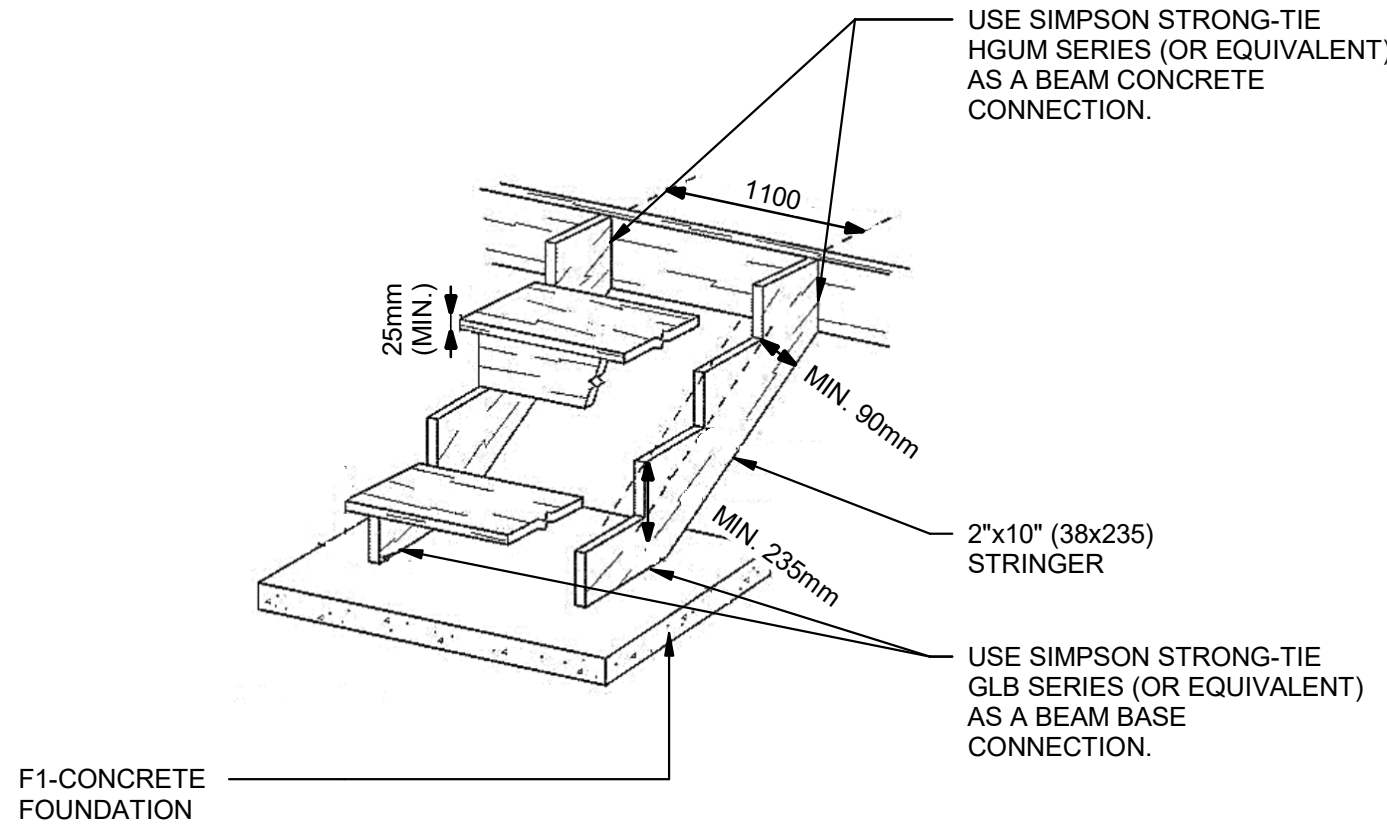
DISCIPLINE:



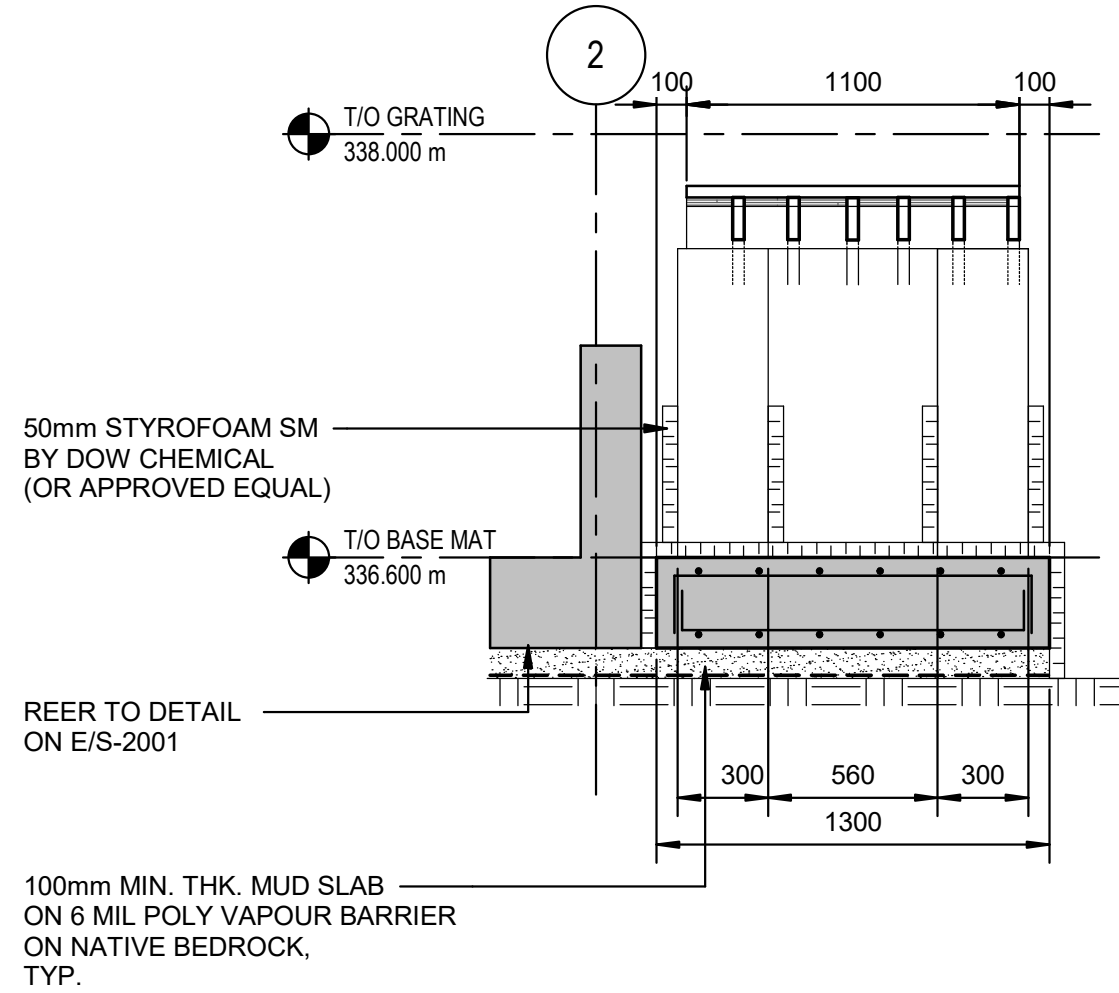
PROJECT NUMBER:
CLIENT:
TOWNSHIP OF
MINDEN HILLS
CLIENT REF. #:

TITLE:
SCOTCH LINE LANDFILL
PROPOSED TRANSFER
STATION
WHEEL CHAIR RAMP
PLAN AND SECTION

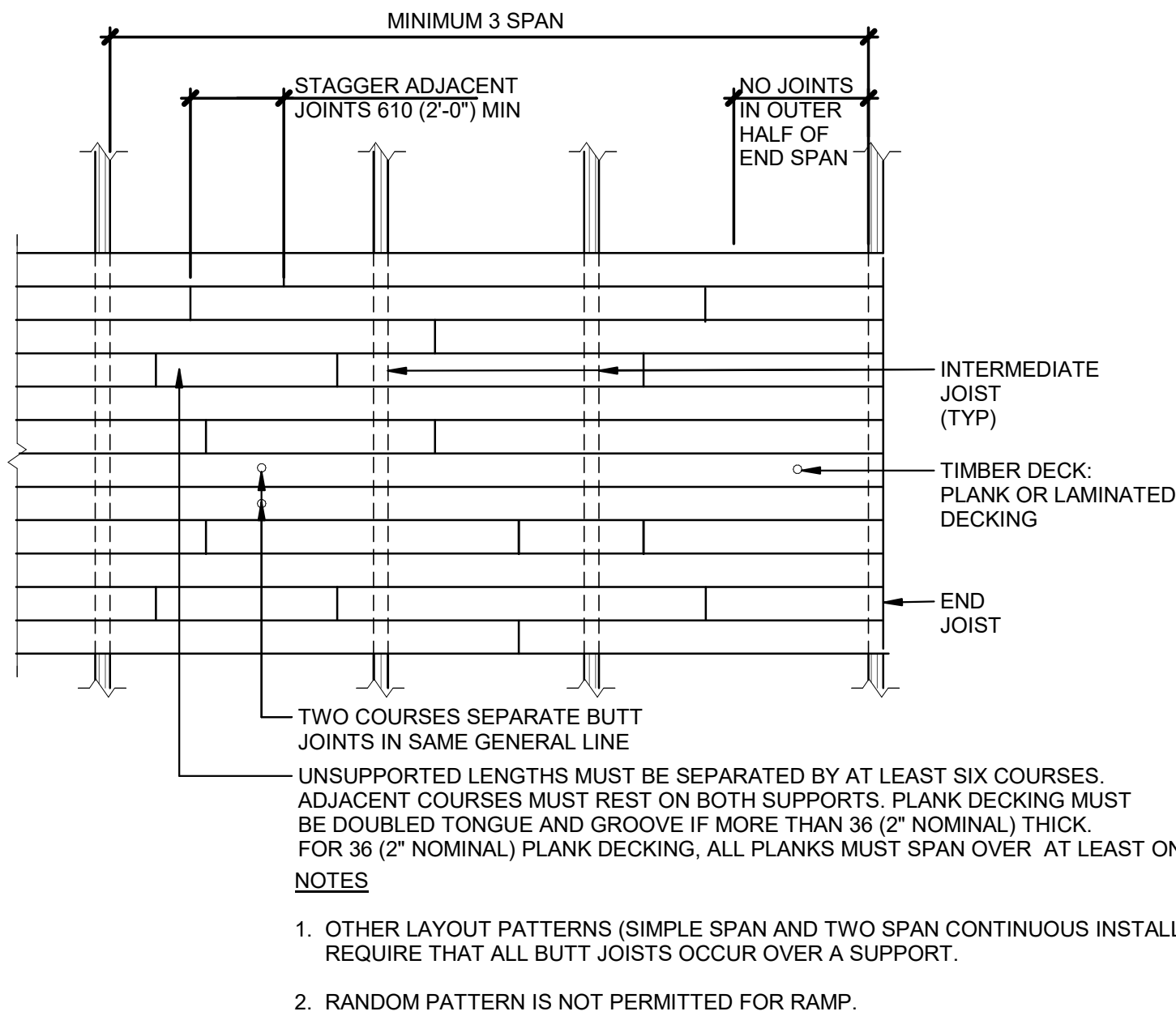
DRAWING NUMBER: S-1002	REV. 3
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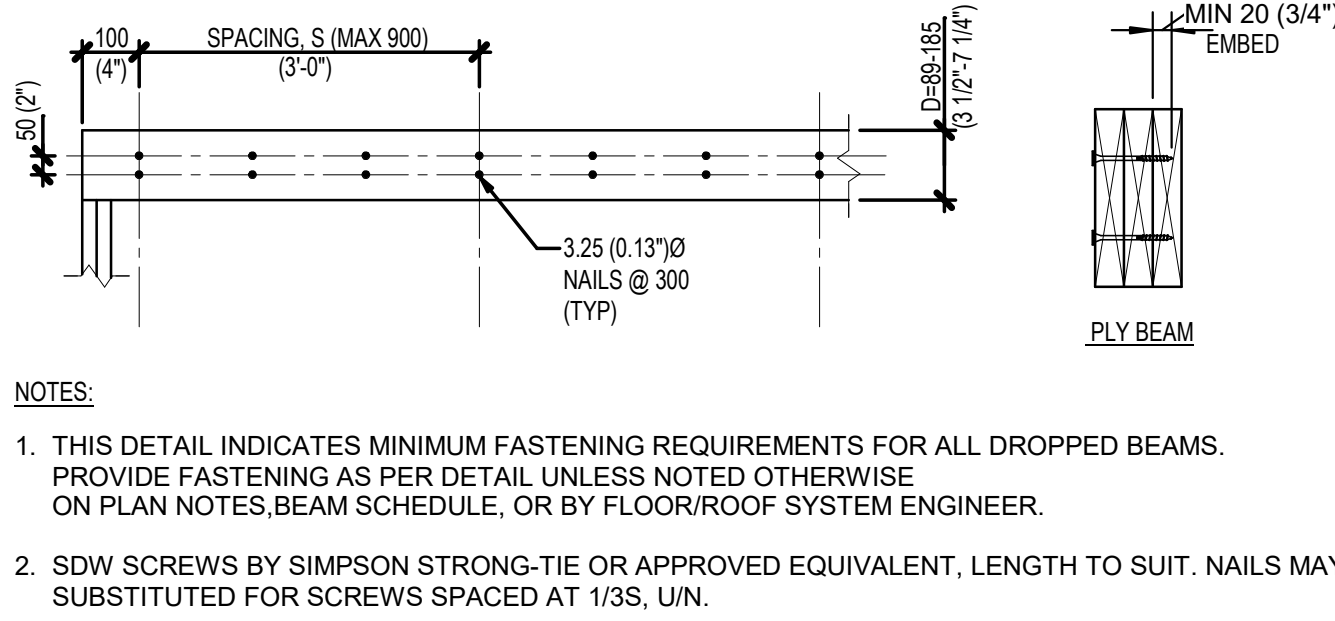
1 STAIRS DETAIL
NTS



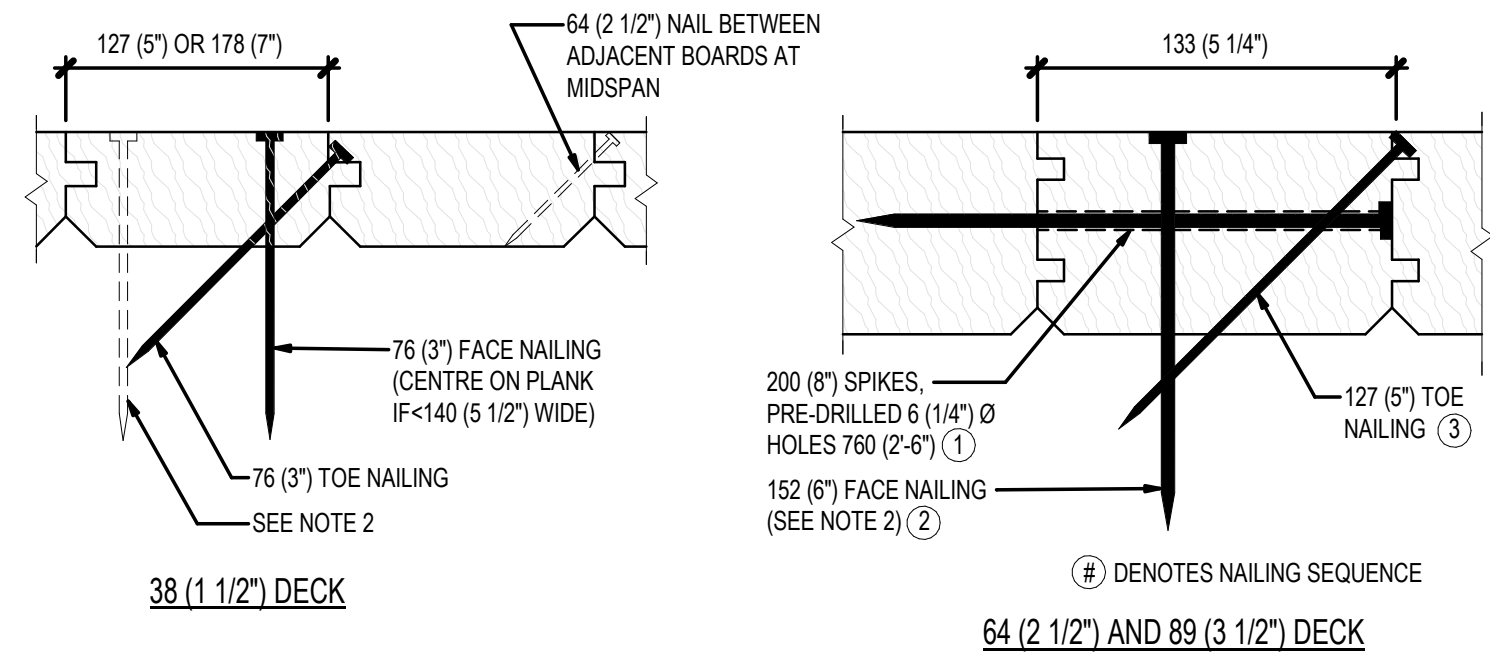
2 SECTION
1 : 25



3 LAYOUT PATTERN FOR TIMBER PLANK DECKING
1 : 100



4 BUILT-UP BEAM FASTENING
1 : 100



5 NAILING PATTERN FOR TIMBER PLANK DECKING
1 : 100

REVISION:			
REV	DATE	DESCRIPTION	BY
2	DEC. 2024	ISSUED FOR TENDER	M.E
1	NOV. 2024	ISSUED FOR 100% SUBMISSION	M.E

SEAL:

LICENSED PROFESSIONAL ENGINEER
MOSTAFA ELSAYED
100578705
Nov. 29, 2024
PROVINCE OF ONTARIO

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ORIGINAL SCALE: SEE SCALE BAR
APPROVED BY: R.L.
CHECKED BY: R.L.
DRAWN BY: A.Z.

DATE: 11/01/24
IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
25mm

DISCIPLINE: STRUCTURAL

wsp

150 COMMERCE VALLEY Dr. W.
THORNHILL, ONTARIO CANADA L3T7E3
TEL: 1-905-882-1100/FAX: 1-905-822-0055/www.wsp.com

PROJECT NUMBER:
CLIENT:

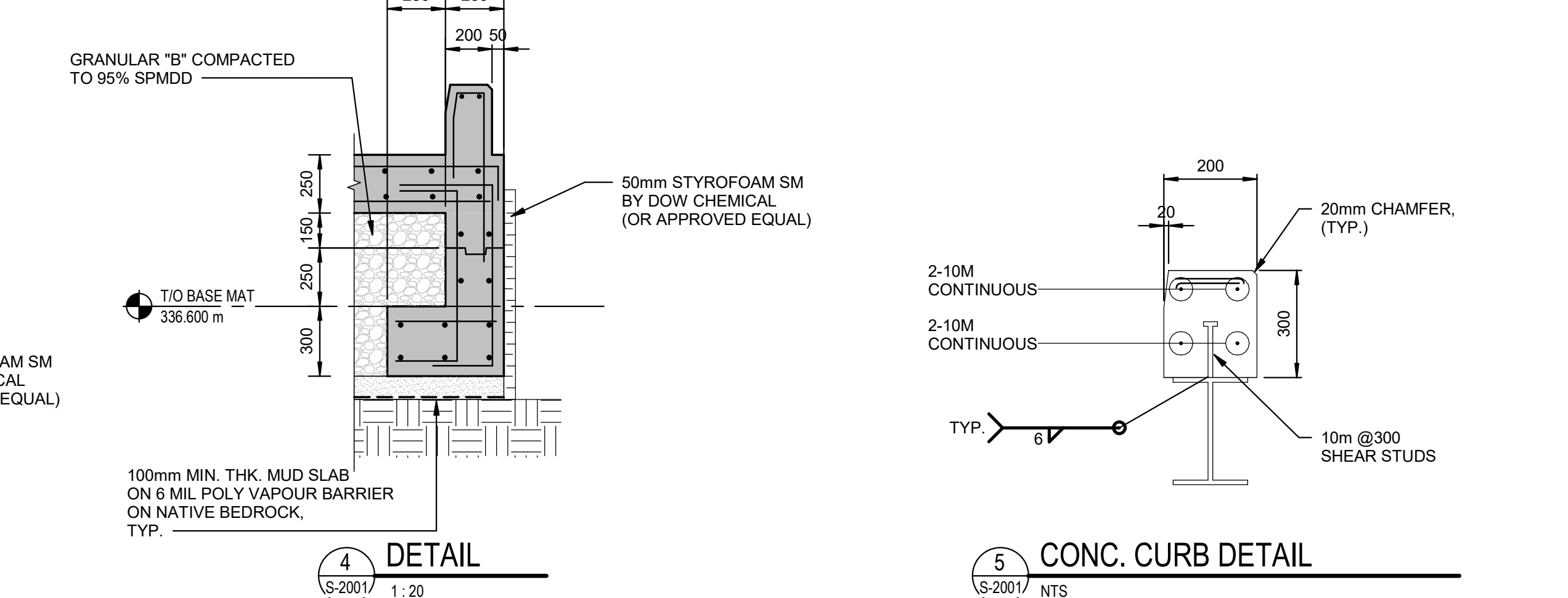
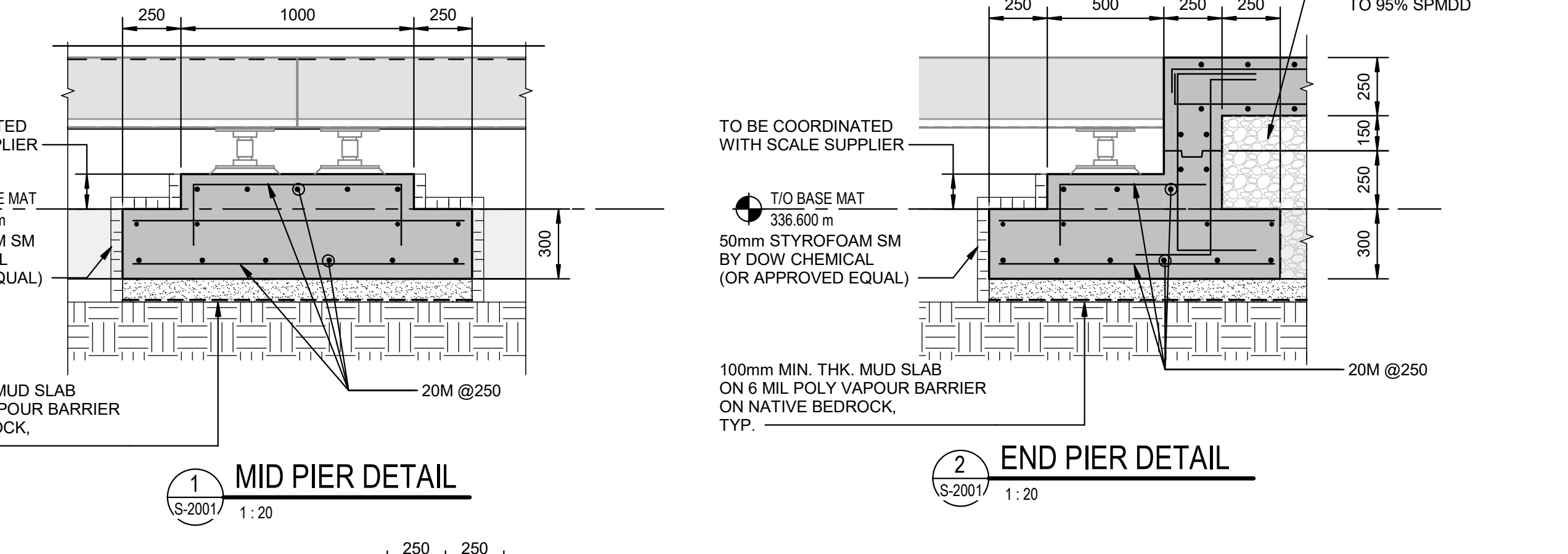
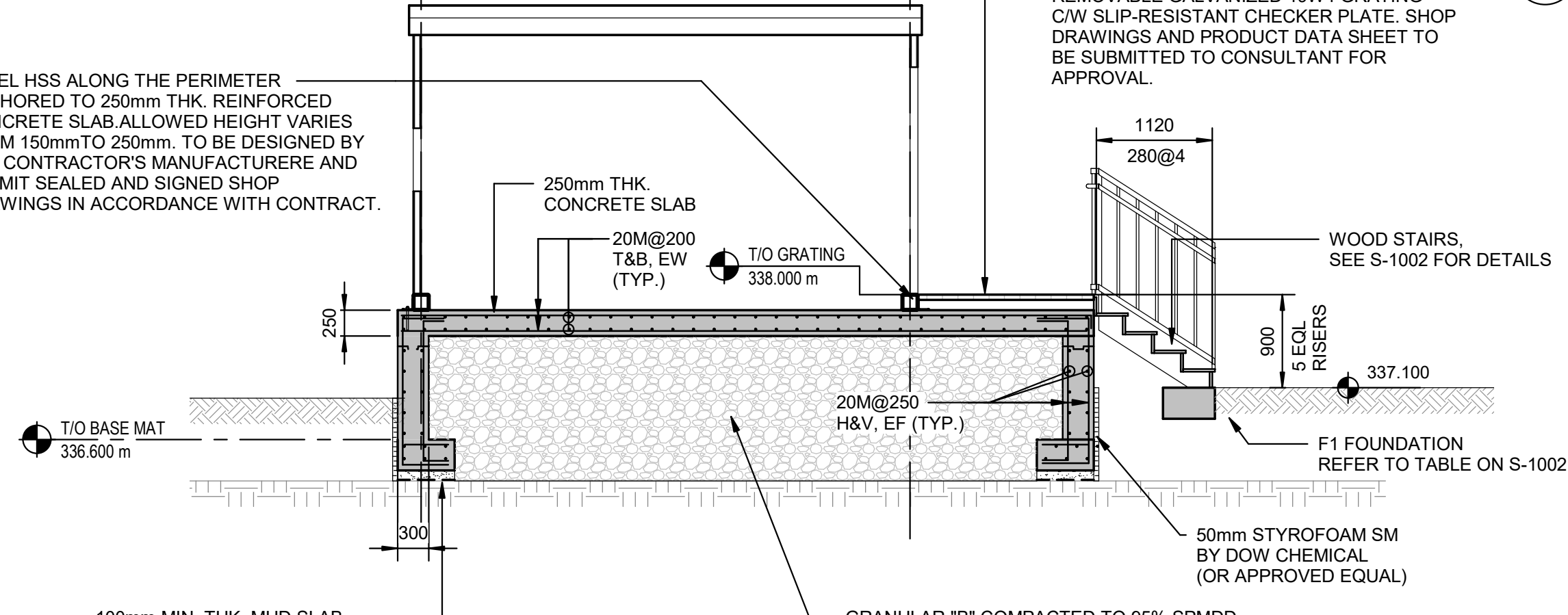
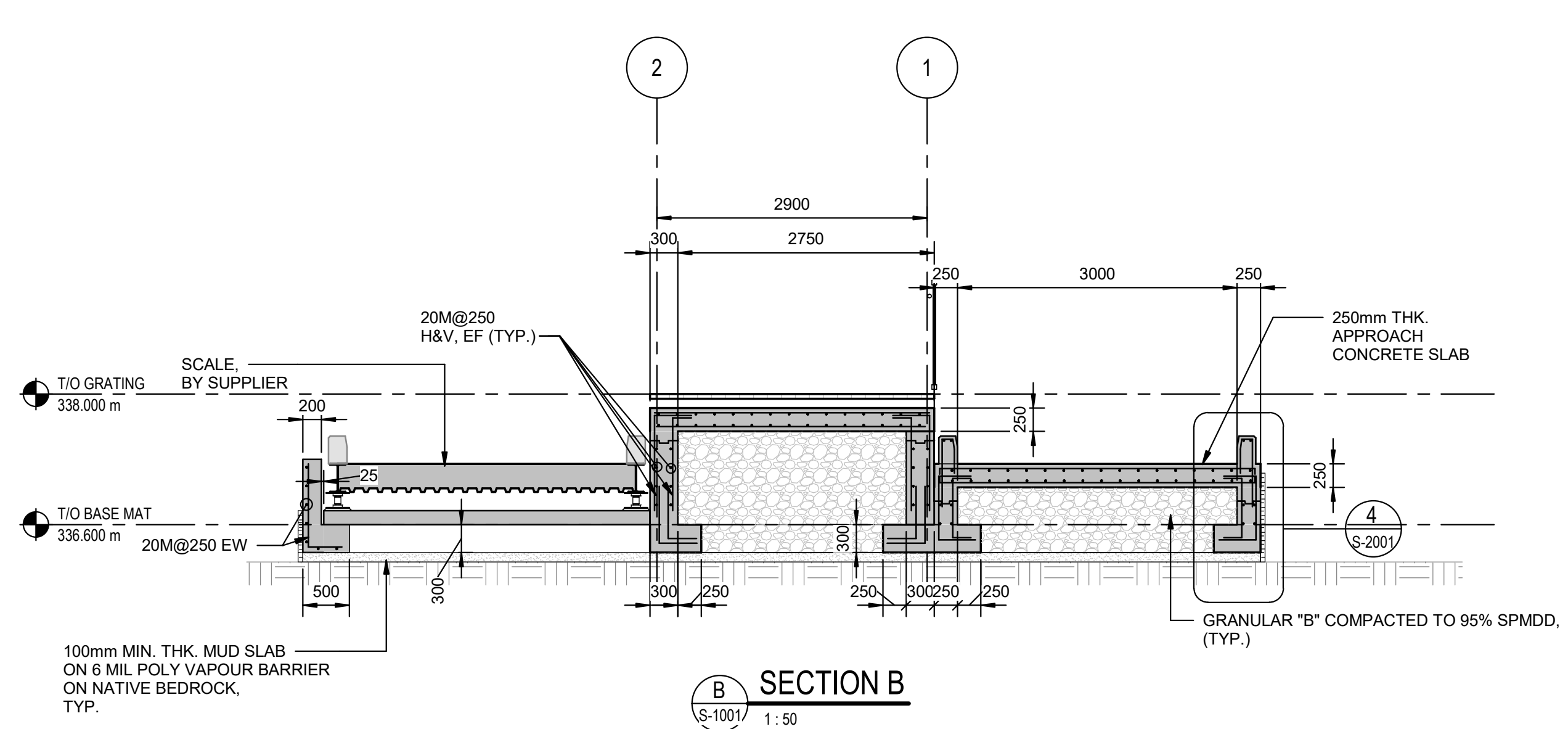
TOWNSHIP OF
MINDEN HILLS

CLIENT REF. #: --

PROJECT:
SCOTCH LINE LANDFILL
PROPOSED TRANSFER
STATION

TITLE:
WHEEL CHAIR RAMP
SECTIONS AND DETAILS

DRAWING NUMBER: S-1003
REV: 3





















































DRAWING NUMBER:	REV.
2-2224	2










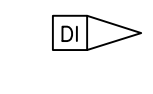

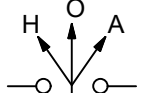
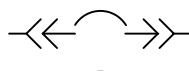
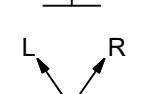
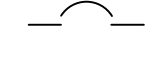
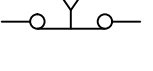
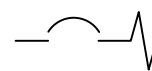
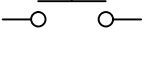

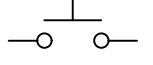

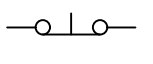

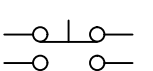

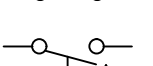
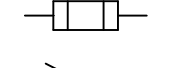
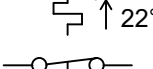
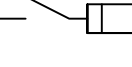
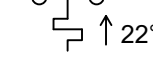

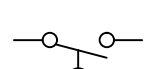

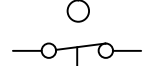

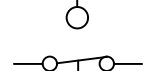



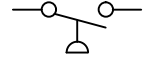



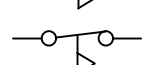

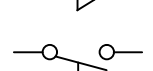

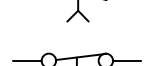

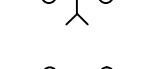

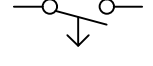



















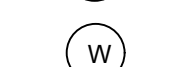
STANDARD ABBREVIATIONS

AC	AMPERES (CONTINUOUS)	US	LITRE PER SECOND
AC	ALTERNATING CURRENT	LS	LIMIT/LEVEL SWITCH
AF	AMPERE FRAME	MAN	MANUAL
ANF	DRY TYPE TRANSFORMER - FAN COOLED	MCC	MOTOR CONTROL CENTRE
ANN	DRY TYPE TRANSFORMER - NATURALLY COOLED OR ANNUNCIATOR	MCP	MOTOR CIRCUIT PROTECTOR
AS	AIR SUPPLY	mm	MILLIMETER
ASYM	ASYMMETRICAL	M.O.	MANUALLY OPERATED
AT	AMPERE TRIP	M/O/A	MANUAL-OFF-AUTOMATIC
ATS	AUTOTRANSFORMER REDUCED VOLTAGE STARTING OR AUTO TRANSFER SWITCH	MOT	MOTOR
AUTO	AUTOMATIC	MTD	MOUNTED
AWG	AMERICAN WIRE GAUGE	MTG	MOUNTING
BLDG	BUILDING	MTS	MANUAL TRANSFER SWITCH
BKR	BREAKER	N	NORTH OR NEUTRAL
°C	DEGREE CELSIUS	N/A	NON AUTOMATIC
C	CONDUCTOR	N.O.	NORMALLY OPEN/NUMBER
CCT	CIRCUIT	N.C.	NORMALLY CLOSED
CL	CENTERLINE	NP	NAMEPLATE
C/W	COMPLETE WITH	NPT	NATIONAL PIPE THREAD
CPT	CONTROL POWER TRANSFORMER	NTS	NOT TO SCALE
CR	CONTROL RELAY/CORROSION RESISTANT	OC	OVERCURRENT
CS	CONTROL SWITCH	OH	ONTARIO HYDRO OR OVERHEAT
CSA	CANADIAN STANDARDS ASSOCIATION	OL	OVERLOAD
CT	CURRENT TRANSFORMER	O/O/A	ON/OFF/AUTO
CTL	CONTROL	P	POLE
CTD	CURRENT TEST DEVICE	PB	PUSHBUTTON
CU	COPPER	PC	PHOTOCELL CONTROL
DC	DIRECT CURRENT	PCV	PRESSURE/PUMP CONTROL VALVE
D.O.	DRAW OUT	PH OR Ø	PHASE OR DIAMETER
DISC	DISCONNECT	P/I	PNEUMATIC-TO-CURRENT
DPDT	DOUBLE POLE DOUBLE THROW	PID	PROPORTIONAL-INTEGRAL-(RESET) DERIVATIVE (RATE)
DPST	DOUBLE POLE SINGLE THROW	P & ID	PROCESS AND INSTRUMENTATION DIAGRAM
EEMAC	ELECTRICAL AND ELECTRONIC MANUFACTURERS ASSOCIATION OF CANADA	PLC	PROGRAMMABLE LOGIC CONTROLLER
ELEC	ELECTRIC, ELECTRICAL	REM	REMOTE
ELR	END OF LINE RESISTOR	PNL	PANEL
ELU	EMERGENCY LIGHTING UNIT	RES	RESISTOR
EM	ENCLOSURE	RTD	RESISTANCE TEMPERATURE DETECTOR
ENCL	EARLY MAKE (CONTACTS)	RTU	REMOTE TERMINAL UNIT(PLC)
EO	ELECTRICALLY OPERATED	SEL	SELECTOR
EP	EXPLOSION PROOF	SV	SOLENOID VALVE
ESTOP	EMERGENCY STOP	S/C	SHORT CIRCUIT
ETM	ELAPSED TIME METER	SHLD	SHIELDED
FRE	FIBREGLASS REINF.EPOXY	SN	SOLID NEUTRAL
FVR	FULL VOLTAGE REVERSING	SPDT	SINGLE POLE DOUBLE THROW
FVNR	FULL VOLTAGE, NON-REVERSING	SPST	SINGLE POLE SINGLE THROW
GFI	GROUND FAULT INTERRUPTER	SS	SELECTOR SWITCH
GFR	GROUND FAULT COT INTERRUPTING RECEPTACLE	SV	SOLENOID OPERATED VALVE (DIRECT OPERATED)
GND	GROUND	SW	SWITCH
H/O/A	HAND-OFF-AUTOMATIC	SYM	SYMMETRICAL
HP	HORSEPOWER	TC	SHUNT TRIP COIL or THERMOCOUPLE
HTR	HEATER	TDC	TIME DELAY ON CLOSING
Hz	HERTZ	TDDO	TIME DELAY ON DROP-OUT
IEEE	INSTITUTE OF ELECTRICAL & ELECTRONIC ENGINEERS	TDO	TIME DELAY ON OPENING
IND	INDICATION	TDPU	TIME DELAY ON PICK-UP
INST	INSTANTANEOUS	TEMP	TEMPERATURE
I/O	INPUT/OUTPUT	TERM	TERMINAL
I/P	CURRENT TO PNEUMATIC	TR	TIME RELAY
ISA	INSTRUMENT SOCIETY OF AMERICA	TYP	TYPICAL
JB	JUNCTION BOX	V	VOLT
KAIC	KILO-AMP INTERRUPTING CAPACITY	VA	VOLT-AMPERE
kVA	KILOVOLTAMPERE	VAC	VOLTS ALTERNATING CURRENT
kHz	KILOHERTZ	VDC	VOLTS DIRECT CURRENT
kW	KILOWATT	VFD	VARIABLE FREQUENCY DRIVE
kWh	KILOWATT HOUR	VT	VOLTAGE TRANSFORMER (FORMER PT)
LA	LIGHTNING ARRESTOR	VTD	VOLTAGE TEST DEVICE
LB	LATE BREAK (CONTACTS)	W	WIRE OR WATT
LOS	LOCK OUT STOP	WP	WEATHERPROOF
L/R	LOCAL-REMOTE	2S1W	TWO SPEED-ONE WINDING
LOS	LOCK OUT STOP	2S2W	TWO SPEED-TWO WINDING
L/R	LOCAL-REMOTE	XFMR	TRANSFORMER

ELECTRICAL SYMBOLS LIGHTING & POWER LAYOUTS

	FIRE ALARM PULL STATION
	HUMIDISTAT
	THERMOSTAT
	ADJUSTABLE SPEED CONTROLLER
	SINGLE PHASE MOTOR STARTER WITH OVERLOAD
	SINGLE PHASE MOTOR STARTER WITH OVERLOAD AND PILOT LIGHT
	SELECTOR SWITCH
	DISCONNECT SWITCH ('X' DENOTES No. OF POLES)
	CONTROL PANEL (OR 'LP'-LOCAL PANEL)
	SINGLE POLE SWITCH (LETTER + NUMBER DENOTES CONNECTED TO PNL 'A' + CCT NUMBER '10')
	3 WAY SWITCH (3 WIRE)
	INTERMEDIATE SWITCH (4 WIRE)
	OCCUPANCY SENSOR (INFRARED MOTION)
	PHOTOCELL CONTROL
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE WEATHER PROTECTED
	DUPLEX RECEPTACLE (WEATHER AND CORROSION PROTECTED)
	THREE PHASE RECEPTACLE (FEMALE CONFIGURATION)
	DIRECT CONNECTION TO PACKAGE EQUIPMENT OR DEVICE CONDUIT STUB UP
	CLOCK OUTLET
	20A-1P DUPLEX RECEPTACLE
	SPECIAL OUTLET AS NOTED
	COUNTER-TOP OR WORKBENCH HEIGHT DUPLEX RECEPTACLE
	COUNTER-TOP OR WORKBENCH HEIGHT SPLIT DUPLEX RECEPTACLE
	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
	JUNCTION BOX (OR 'PB'-PULL BOX)
	HEAT DETECTOR ('X' DENOTES TAG No.)
	SMOKE DETECTOR ('X' DENOTES TAG No.)
	ELECTRICAL MOTOR
	SOLENOID
	MOTORIZED (EO) VALVE
	DIESEL-GENERATOR
	FIRE ALARM BELL
	PAGING LOUDSPEAKER
	CEILING MTD PAGING LOUDSPEAKER
	TELEPHONE OUTLET
	EMERGENCY LIGHTING UNIT,
	REMOTE ELU LAMPS (TWO LAMPS)
	REMOTE ELU LAMP (1 LAMP)
	CEILING OR WALL MOUNTED EXIT SIGN
	LIGHT FIXTURE TYPE 'F1' (TYPICAL)
	CONNECTED TO PNL 'A'; CCT '10'
	LIGHT FIXTURE TYPE H1 (TYPICAL)
	CONNECTED TO PNL 'A'; CCT '10'
	UNIT HEATER




ELECTRICAL SYMBOLS SINGLE LINE/ELEMENTARY CONTROL DIAGRAMS

	LIGHTING CONTROL PANEL		HVAC TERMINAL
	TIME SURFACE PRIMER		TERMINAL BLOCK TO FIELD
	POWER MONITOR		TERMINAL BLOCK INSIDE MCC OR CONTROL PANEL
	AMMETER SWITCH		PLC INPUT/OUTPUT, 'DI' DENOTES DISCRETE INPUT
	VOLTMETER SWITCH		CONTROL/SELECTOR SWITCH, 3 POSITION, TOP
	KEY INTERLOCK		CONTROL/SELECTOR SWITCH, 2 POSITION, TOP
	600V DRAWOUT AIR CIRCUIT BREAKER		CONTROL/SELECTOR SWITCH, 2 OR 3 POSITION, BOTTOM
	CIRCUIT BREAKER, MOULDED CASE WITH THERMAL & MAGNETIC TRIPS		PUSHBUTTON, N.O., MOMENTARY CONTACT
	CIRCUIT BREAKER, MCP, MOULDED CASE WITH ADJUSTABLE 'MAGNETIC ONLY' TRIPS		PUSHBUTTON, N.C., MOMENTARY CONTACT
	DRAWOUT CONNECTION		PUSHBUTTON, MOMENTARY CONTACT, WITH N.O. & N.C. CONTACTS
	CAPACITOR		THERMOSTAT, NORMALLY OPENED, CLOSURES ABOVE 22°C
	RESISTOR OR HEATER		THERMOSTAT, NORMALLY CLOSED, OPENS ABOVE 22°C
	FUSE		LEVEL SWITCH, CLOSURES ON HIGH LEVEL
	FUSED DISCONNECT SWITCH		LEVEL SWITCH, OPENS ON HIGH LEVEL
	DISCONNECTING (ISOLATING) SWITCH		PRESSURE SWITCH, OPENS ON HIGH PRESSURE
	LIGHTNING ARRESTER		PRESSURE SWITCH, CLOSURES ON HIGH PRESSURE
	SOLENOID		FLOW SWITCH, CLOSURES ON HIGH FLOW
	THERMAL OVERLOAD TRIP		FLOW SWITCH, OPENS ON HIGH FLOW
	BATTERY		TIME DELAY ENABLE (TDE) CONTACT NORMALLY OPEN
	CURRENT TRANSFORMER		TIME DELAY ENABLE (TDE) CONTACT NORMALLY CLOSE
	ZERO SEQUENCE (GROUND) CURRENT TRANSFORMER		TIME DELAY DISABLE (TDDE) CONTACT NORMALLY OPEN
	VOLTAGE TRANSFORMER		TIME DELAY DISABLE (TDDE) CONTACT NORMALLY CLOSE
	AUTOTRANSFORMER WITH TAPS		LIMIT/POSITION SWITCH, NORMALLY OPEN
	POWER OR DISTRIBUTION TRANSFORMER		LIMIT/POSITION SWITCH, NORMALLY OPEN
	CONTROL POWER TRANSFORMER		CONTACT NORMALLY OPENED
	REACTOR		CONTACT NORMALLY CLOSED
	DUAL AMMETER, THERMAL DEMAND & INSTANTANEOUS		INDICATING LIGHT, LETTER DENOTES LENS COLOUR
	VOLTMETER		PUSH TO TEST (P.T.T.) INDICATING LIGHT, LETTER DENOTES LENS COLOUR
	POWER FACTOR METER		CONTACTOR, CONTROL OR TIMING RELAY:
	KILOWATT METER		MS - MOTOR STARTER/CONTACTOR
	WATTMETER		TR - TIME DELAY RELAY
	POWER GENERATOR, OR DG-DIESEL GENERATOR, OR MG-MOBILE GENERATOR		(ON OR OFF TYPE AS INDICATED)
	DELTA CONNECTION		No. - SEE 'DEVICE FUNCTION NUMBERS' FOR DESCRIPTION
	STAR CONNECTED, GROUNDED		* - RELAY NUMBER
	SOLENOID		SURGE SUPPRESSOR
	MOTOR		
	POWER CIRCUIT BREAKER:		
	A - CONTINUOUS CURRENT RATING		
	MVA - INTERRUPTING RATING		






NEW SUPPLY AND EQUIPMENT





EXISTING SUPPLY AND EQUIPMENT OR REFERENCED EQUIPMENT

ELECTRICAL GROUNDING SYMBOLS

	GROUNDING ROD DIRECT BURIED
	GROUND ROD WITH INSPECTION BOX ON SURFACE
	GROUNDING CONDUCTOR CONCEALED,

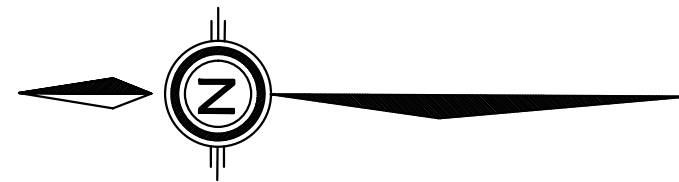
ELECTRICAL GROUNDING SYMBOLS

	GROUNDING ROD DIRECT BURIED
	GROUND ROD WITH INSPECTION BOX OR WELL
	GROUNDING CONDUCTOR CONCEALED, EMBEDDED OR DIRECT BURIED
	SPLICE TO TAP CONNECTION
	GRADIENT CONTROL MAT

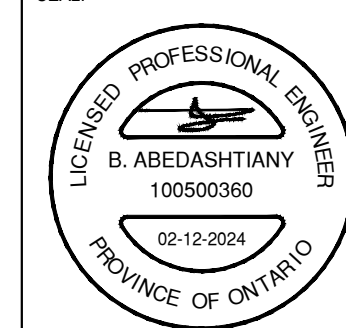
	4 #12-21mmC
	CONDUIT TRADE SIZE
	CONDUCTOR SIZE AWG OR MCM
	NUMBER OF CONDUCTORS

GENERAL NOTES


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

[illegible]

SEAL



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: 02/12/2024
APPROVED BY: K.L.	
CHECKED BY: B.A.	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
DRAWN BY: A.Z.	 25mm

DISCIPLINE

ELECTRICAL



100 COMMERCE VALLEY Dr. W.
THORNHILL ONTARIO CANADA L3TOA1
TEL: 1-905-882-4211/FAX: 1-905-822-0055/WWW.VSPGROUP.CA

PROJECT NUMBER: 221-10889-00

CLIENT



CLIENT REF. #: --

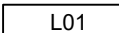
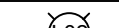

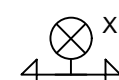
PROJECT:

SCOTCH LINE LANDFILL
PROPOSED TRANSFER
STATION

TITLE:

LEGEND AND ABBREVIATIONS

DRAWING NUMBER:	REV.
E-0001	1

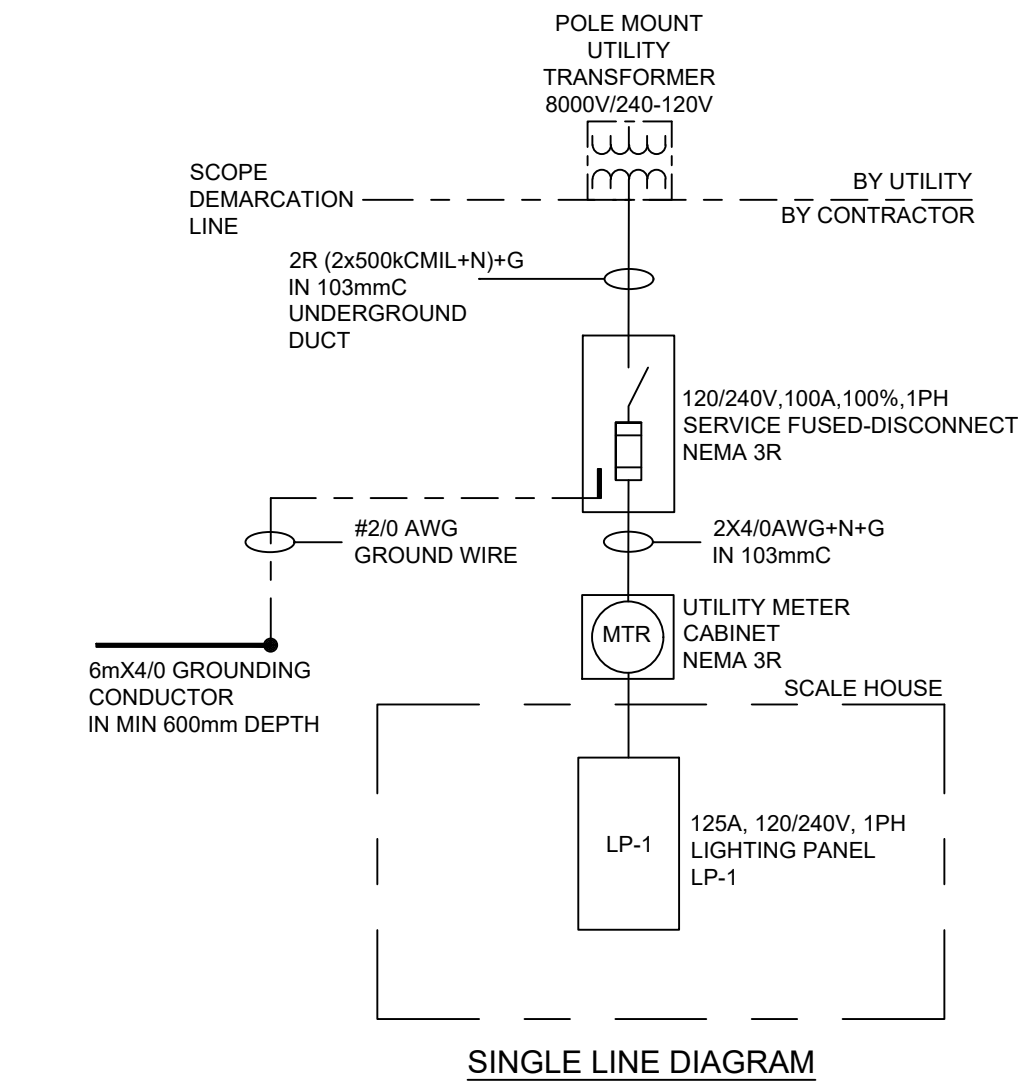
LUMINAIRE SCHEDULE								
SYMBOL	TYPE	VOLTS	INPUT WATTS	DESCRIPTION	LAMPS TYPE	BALLAST	MANUFACTURERS CATALOG NUMBER	MOUNTING
	LED	120	37	1220mm (4') LED LIGHT FIXTURE, COLD ROLLED STEEL WITH EXTRUDED ALUMINUM HOUSING, POLYESTER, POWDER COAT PAINTED FINISHING. PRECISION-FORMED STEEL, HIGH REFLECTANCE 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 Wpl-Ppk LED 2. HOLOPHANE WL2K SERIES 3. HUBBEL, WGH SERIES 4. APPROVED EQUAL	WALL
	LED	120	21	<u>FIXTURE:</u> POLE MOUNTED, DIE-CAST ALUMINUM HOUSING WITH INTEGRAL HEAT SINK, BLACK CORROSION RESISTANT POLYESTER POWDER PAINT, 5000K, 3000 LUMENS, -40°C TO 50°C OPERATING TEMPERATURE , WITH PHOTOCELL. <u>POLE:</u> 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 MOUNT
	LED	120VAC IN / 12VDC OUT.	16	BATTERY UNIT EMERGENCY LIGHT AND PICTOGRAM EXIT COMBINATION UNIT. SUITABLE FOR WET AND CORROSIVE LOCATION. <u>LIGHT SOURCE</u> 1. HIGH-EFFICIENCY LED. 2. FULLY FIELD ADJUSTABLE EMERGENCY LIGHTING HEADS ARE MR16 WHITE 12V 4W LED LAMPS. <u>CHARGER</u> FULLY AUTOMATIC ADVANCED DIAGNOSTIC MICRO-CONTROLLER. TESTS, DETECTS AND INDICATES BATTERY, CHARGER CIRCUITRY, LAMPS OR LED STRIP FAILURES. <u>ELECTRICAL</u> 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) <u>HOUSING</u> 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. EMERGH-LITE, ENC SERIES 2. STANPRO, SLBFSERIES 3. AMLITE, CRPN SERIES 4. APPROVED EQUAL	WALL

PANEL IDENTIFICATION :		LP-1		LOCATION :		SCALE KIOSK		WITH SURGE PROTECTION DEVICE (SEE NOTE-1)	
120/240V		1PH	3W	150A	MAIN BUS	225A	MAIN BREAKER	150A	
DESCRIPTION	LOAD W	BKR	CCT No	SN. A B	CCT No	BKR A	LOAD W	DESCRIPTION	
FFH-01	4000	50	1	1	2	15	600	RECEPTACLES CONVENIENCE - 1	
FFH-02	4000	50	3	1	4	15	800	FRIDGE RECEPTACLE	
AC-01	2400	25	5	1	6	15	100	TRAFFIC LIGHT CONTROL	
RECEPTACLES DESK	1800	20	7	1	8	15	127	SCALE HOUSE LIGHTING	
RECEPTACLES SERVICE WINDOW	800	15	9	1	10	15	500	SCALE MONITOR	
OUTDOOR & PARKING LIGHTING (LCP-1)	205	15	11	1	12	15	400	RECEPTACLES CONVENIENCE - 2	
SPARE		15	13	1	14	15		SPARE	
SPARE		15	15	1	16	15		SPARE	
SPARE		15	17	1	18	15		SPARE	
SPACE			19	1	20			SPACE	
SPACE			21	1	22			SPACE	
SPACE			23	1	24			SPACE	
TOTAL				15532 W					

LIGHTING PANEL LP-1
N.T.S.

NOTES:

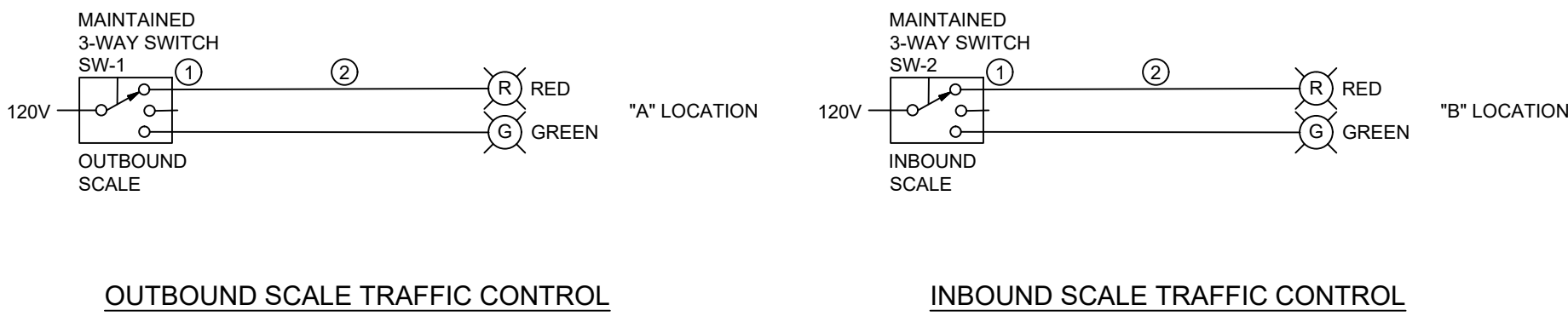
- FOR SPECIFICATION OF SURGE PROTECTION DEVICE (SPD) FOR LP-1 LIGHTING PANEL REFER TO SECTION 16612. THE SPD SHALL MEET THE REQUIREMENTS FOR HIGH EXPOSURE LEVELS.
- CONTRACTOR SHALL FINALIZE THE LIGHTING PANEL FEEDER SIZES AFTER ALL EQUIPMENT SHOP DRAWING REVIEW.
- CONTRACTOR IS RESPONSIBLE TO DISTRIBUTE 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.
- 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.



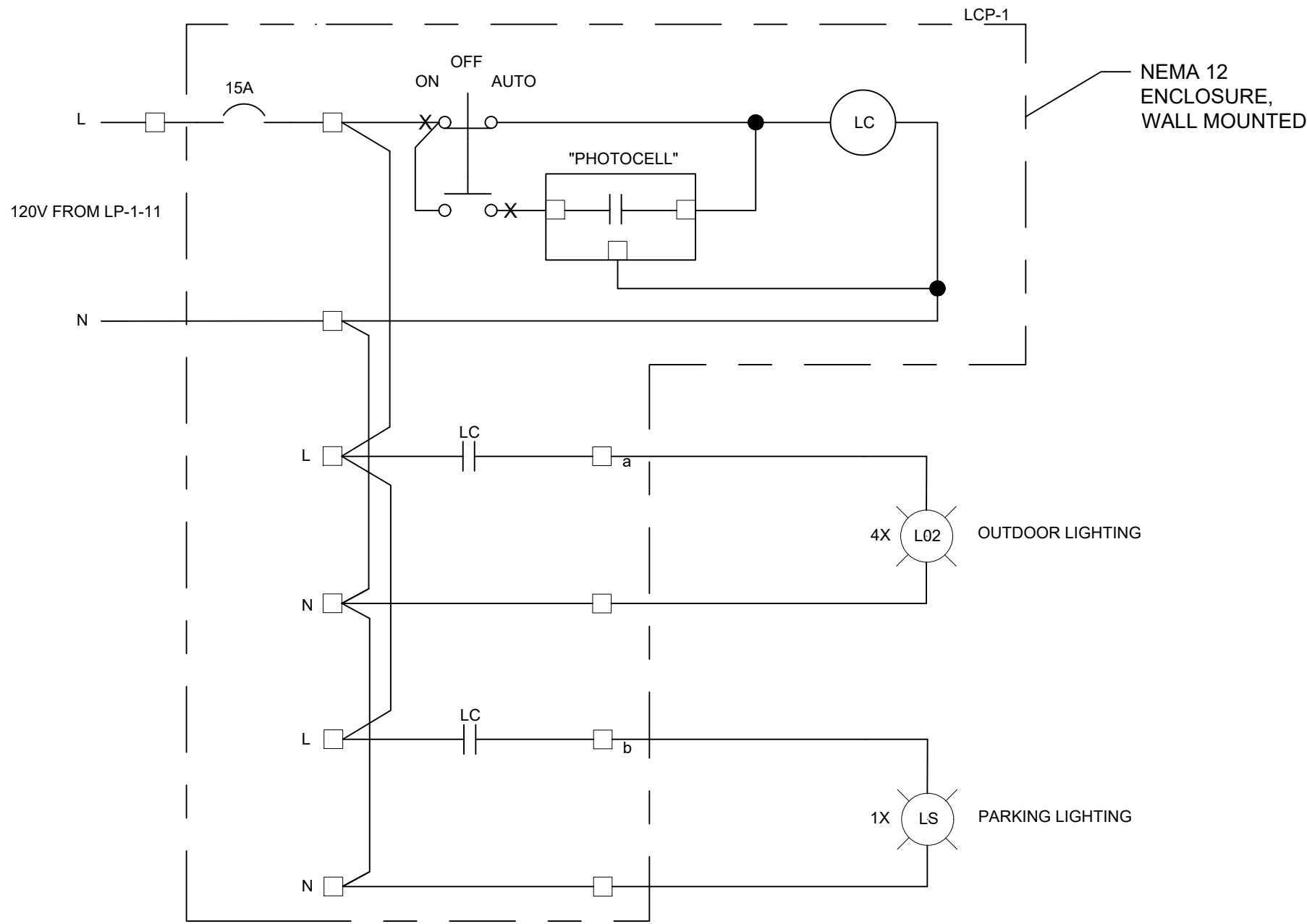
SINGLE LINE DIAGRAM

NOTES:

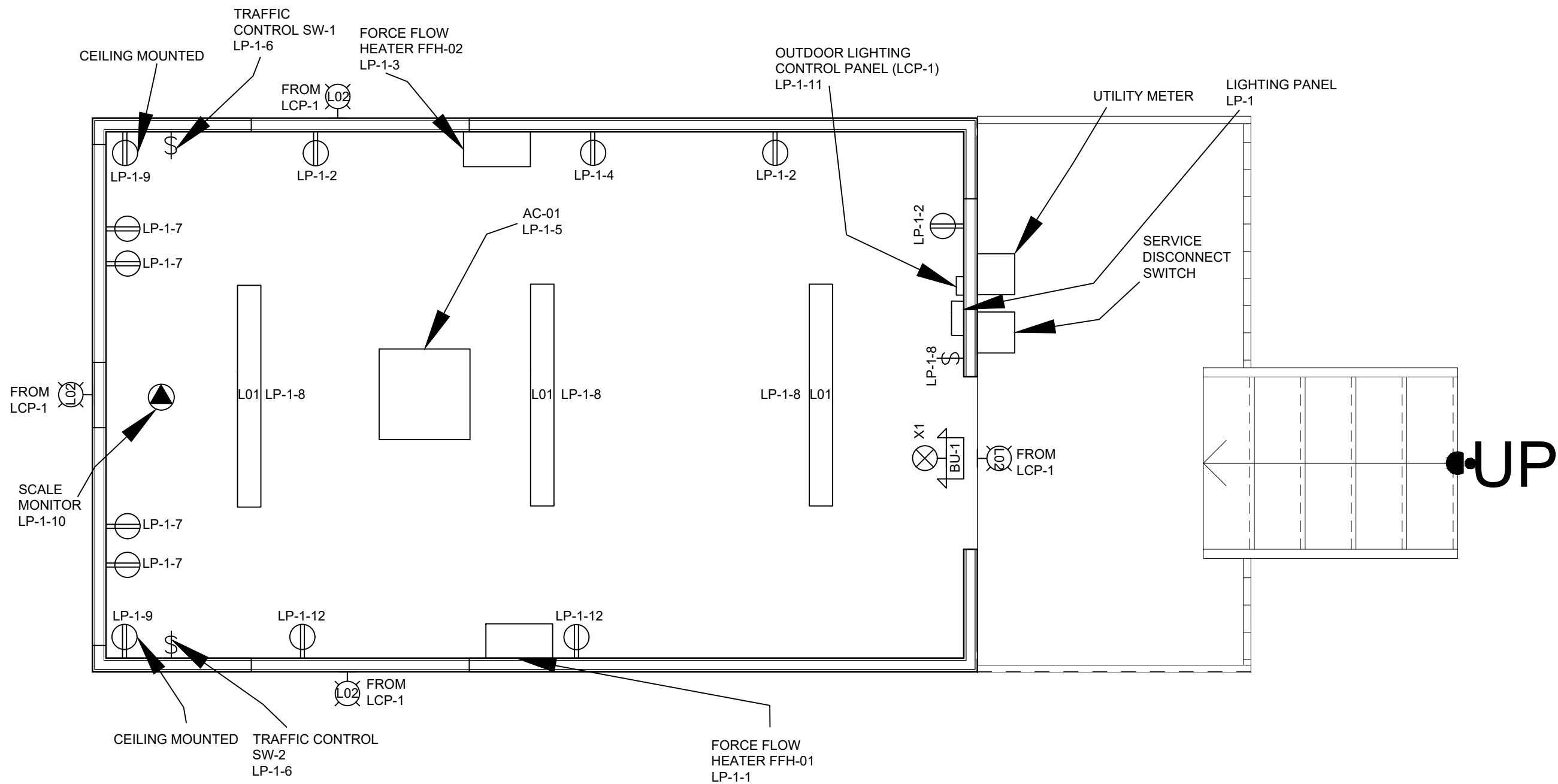
- PROVIDE A 120V MAINTAINED 3 WAY SWITCH (LEVER) EQUAL TO EATON CUTLER HAMMER CATALOGUE #E22VBG10. SWITCH SHALL BE INSTALLED IN SUITABLE NEMA 3R ENCLOSURE IN SCALE HOUSE AS SHOWN ON DRAWING. CO-ORDINATE WITH THE CONTRACT ADMINISTRATOR AND CLIENT FOR LOCATION AND MOUNTING HEIGHT.
- PROVIDE WIRING AND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



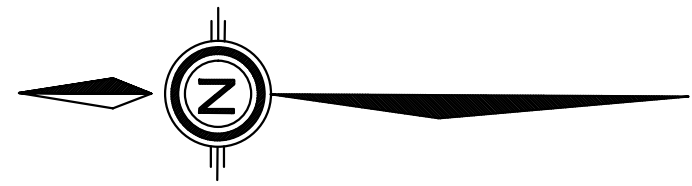
SCALE HOUSE TRAFFIC LIGHTS SCHEMATICS DETAIL
N.T.S.



OUTDOOR & PARKING LIGHTING CONTROL PANEL WIRING DIAGRAM
LCP-1



POWER & LIGHTING LAYOUT
SCALE 1:25



REVISION:

REV	DATE	DESCRIPTION	BY
1	02/12/2024	ISSUED FOR TENDER	B.A.

SEAL:



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: 02/12/2024
APPROVED BY: K.L.	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
CHECKED BY: B.A.	25mm
DRAWN BY: A.Z.	

DISCIPLINE: ELECTRICAL



100 COMMERCE VALLEY DR. W.
THORNHILL, ONTARIO CANADA L3T0A1
TEL: 1-800-862-4211 / FAX: 1-800-822-0350 / WWW.WSPGROUP.CA

PROJECT NUMBER: 221-10889-00

CLIENT:



CLIENT REF. # --

PROJECT:

SCOTCH LINE LANDFILL
PROPOSED TRANSFER
STATION

TITLE:

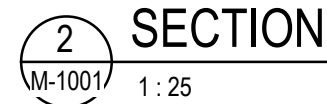
SINGLE LINE, SCHEMATIC DIAGRAMS,
PANEL AND LUMINAIRE SCHEDULES

DRAWING NUMBER:

E-3001

REV.

1



NOTE: THE HEATPUMP UNIT IS SUPPLY BY PRE-FAB MANUFACTURER AND INSTALL BY THE CONTRACTOR.

NOTE: THE FORCE FLOW HEATER IS SUPPLY BY PRE-FAB MANUFACTURER AND INSTALL BY THE CONTRACTOR

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 MAXIMIZE AVAILABLE HEADSPACE BELOW.

[illegible]

SEAL:



The seal is circular with a double-line border. The outer ring contains the text "LICENSED PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom. In the center, there is a stylized signature of "P. A. Perez" in blue ink. Below the signature, the text "P. A. PEREZ" is printed in a bold, sans-serif font. Underneath that, the license number "100192136" is printed. At the bottom of the seal, the expiration date "NOV. 2024" is printed.

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.

APPROVED BY:
P.P.

CHECKED BY:
J.H.

DRAWN BY:
P.P.

06/07/24

IF THIS BAR IS NOT
5mm LONG, ADJUST
YOUR PLOTTING
SCALE.

25mm

DISCIPLINE: _____

THORNHILL ONTARIO CANADA L3T0A1
TEL: 1-905-882-4211 FAX: 1-905-822-0055 WWW.WSPGROUP.CA

PROJECT NUMBER:



CLIENT REF. #: --

PROJECT:

SCOTCH LINE LANDFILL PROPOSED TRANSFER STATION

TITLE: _____

SCALE KIOSK - HVAC PLAN AND SECTION

M-1001

1