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# SCOTCH LINE LANDFILL PROPOSED TRANSFER STATION

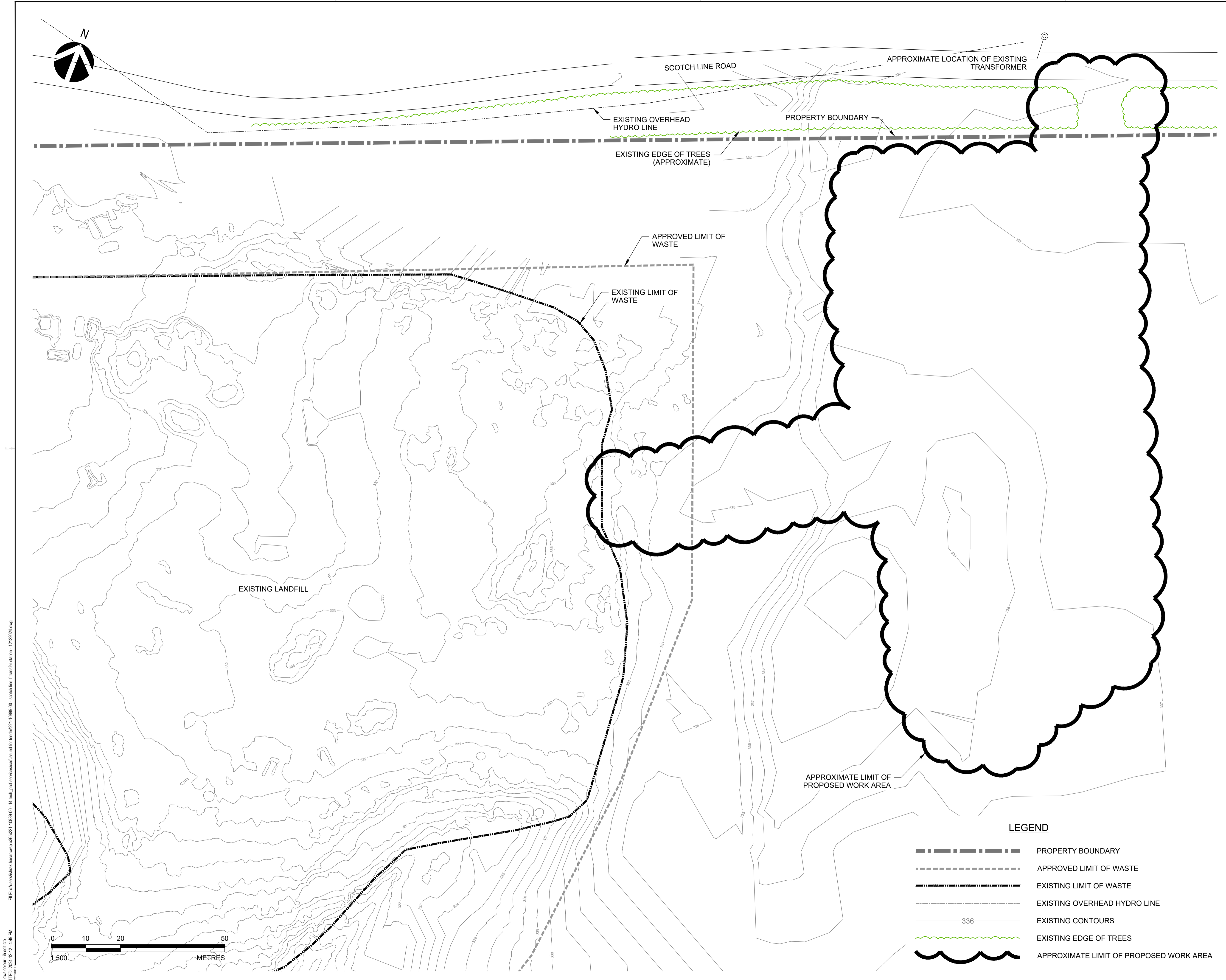
PROJECT NUMBER: 221-10889-00

ISSUED FOR TENDER  
 DECEMBER 2024

DRAWING INDEX	
DRAWINGS INDEX	DRAWING TITLE
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**LEGEND**

	PROPERTY BOUNDARY
	APPROVED LIMIT OF WASTE
	EXISTING LIMIT OF WASTE
	EXISTING OVERHEAD HYDRO LINE
	EXISTING CONTOURS
	EXISTING EDGE OF TREES
	APPROXIMATE LIMIT OF PROPOSED WORK AREA

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	JJO

SEAL:

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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

WSP Canada Inc.  
 300 - 4 Hughson Street South, Hamilton, Ontario, L8N 3Z1  
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PROJECT NUMBER: 221-10889-00

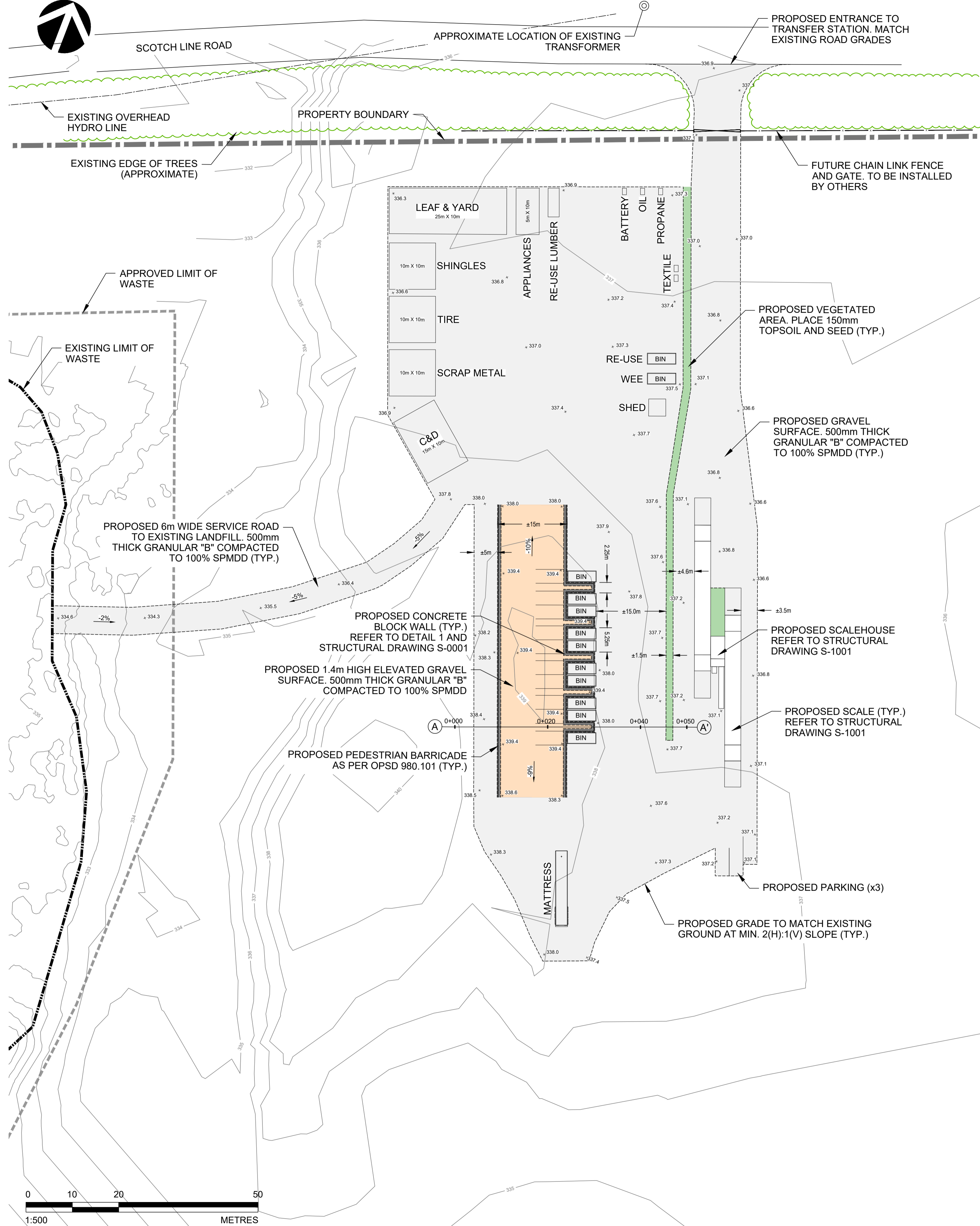
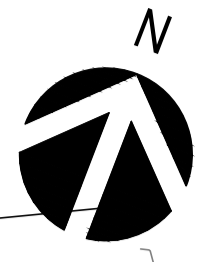
CLIENT REF. #: --

PROJECT:  
**SCOTCH LINE LANDFILL  
 PROPOSED TRANSFER STATION**

TITLE:  
**EXISTING CONDITION AND  
 PROPOSED WORK AREA**

DRAWING NUMBER: <b>C-101</b>	REV: <b>4</b>
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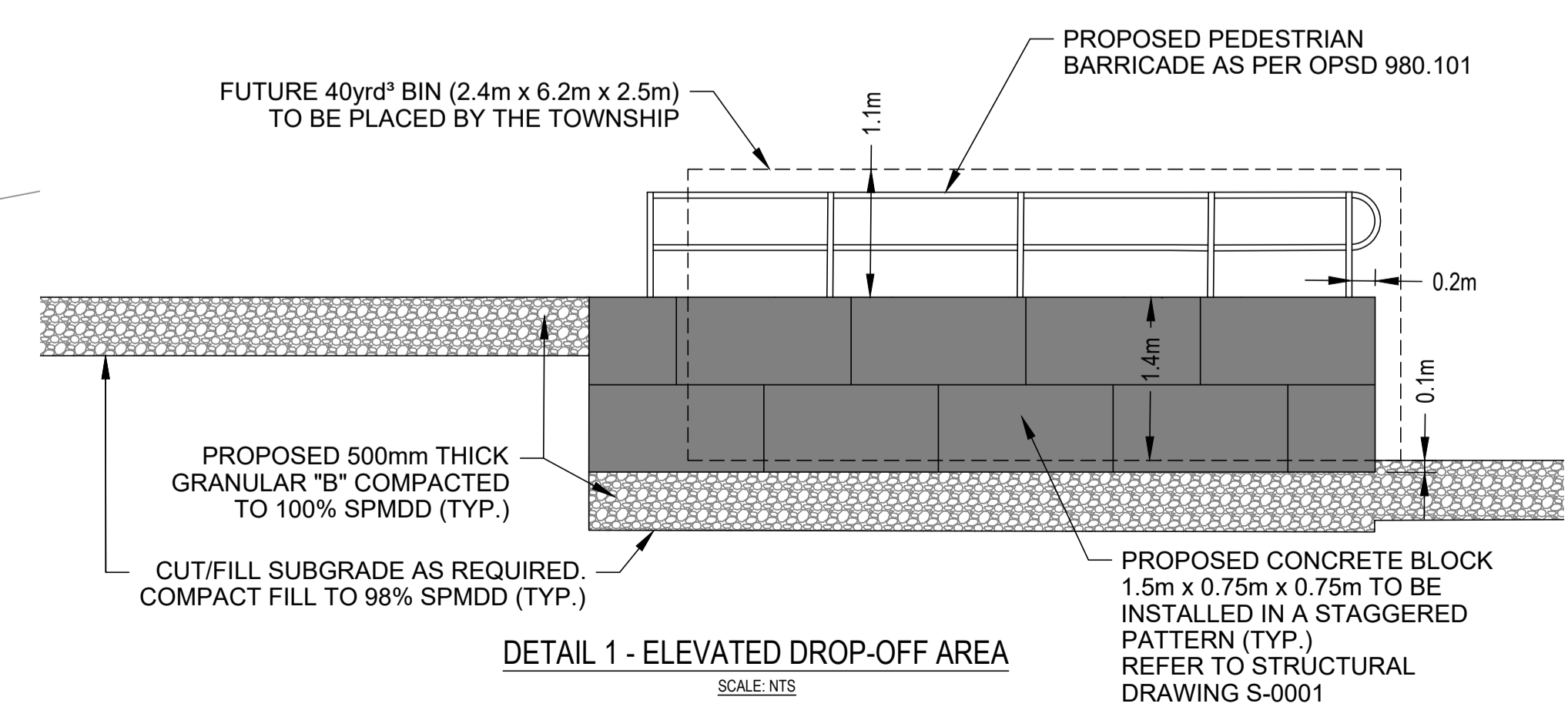
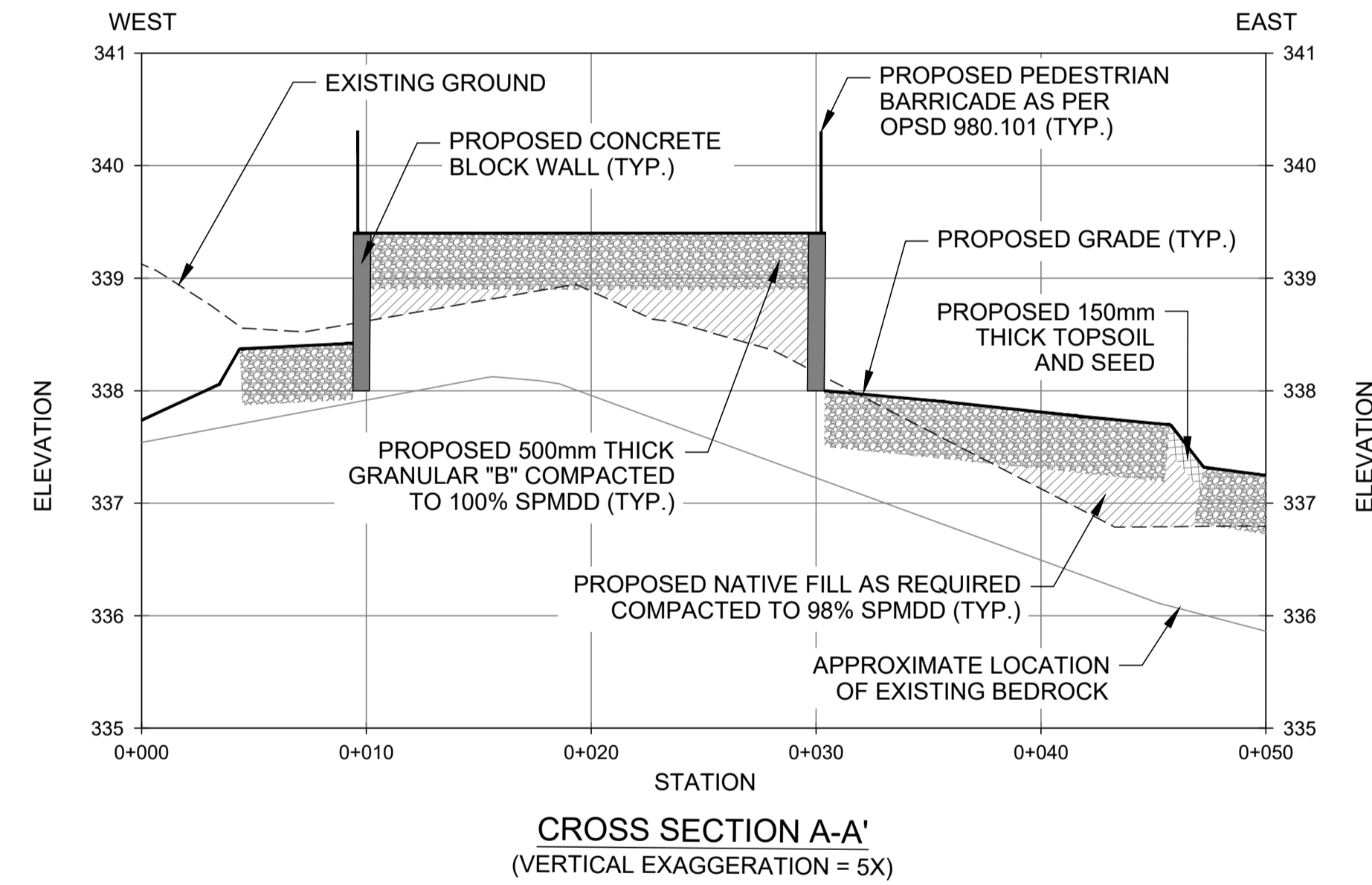


**LEGEND**

- PROPERTY BOUNDARY
- - - APPROVED LIMIT OF WASTE
- EXISTING LIMIT OF WASTE
- - - EXISTING OVERHEAD HYDRO LINE
- 336 EXISTING CONTOURS
- EXISTING EDGE OF TREES
- 337.4 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:

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ORIGINAL SCALE: SEE SCALE BAR DATE: 2024-12-12

APPROVED BY: I.F.H.

CHECKED BY: J.J.O.

DRAWN BY: I.F.H.

IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.

25mm

DISCIPLINE: CIVIL



PROJECT NUMBER: 221-10889-00



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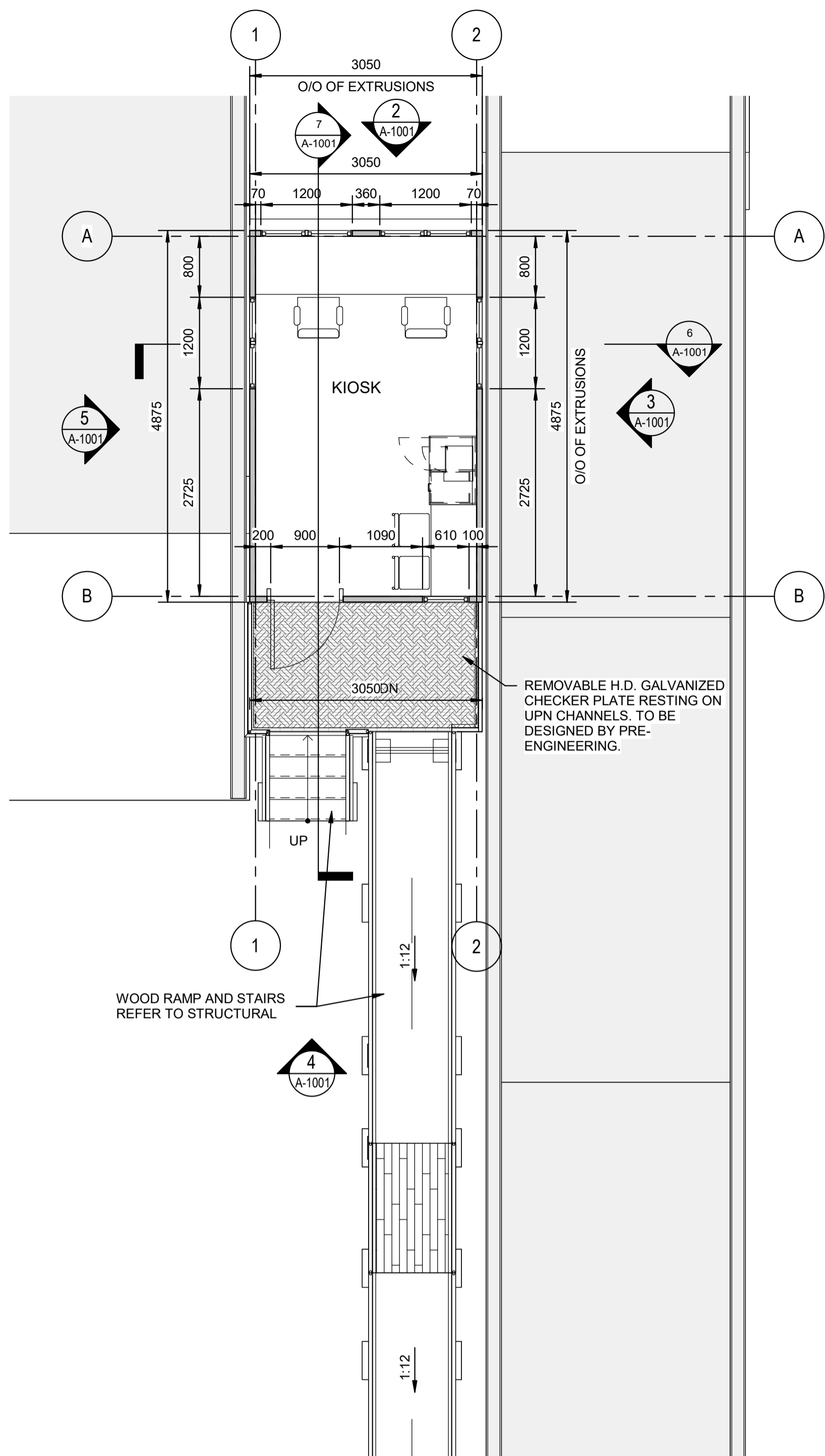
PROJECT: SCOTCH LINE LANDFILL PROPOSED TRANSFER STATION

TITLE: PROPOSED TRANSFER STATION

DRAWING NUMBER: C-102 REV: 4

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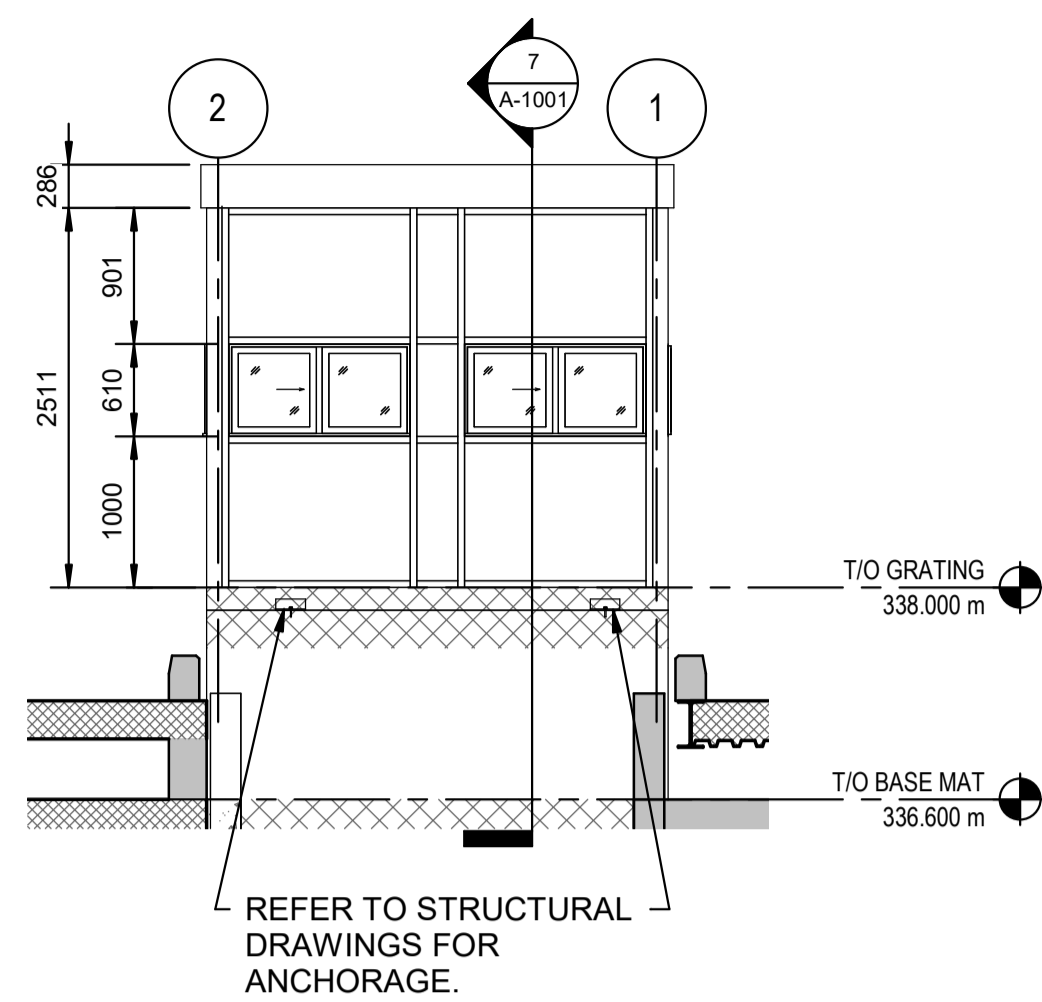




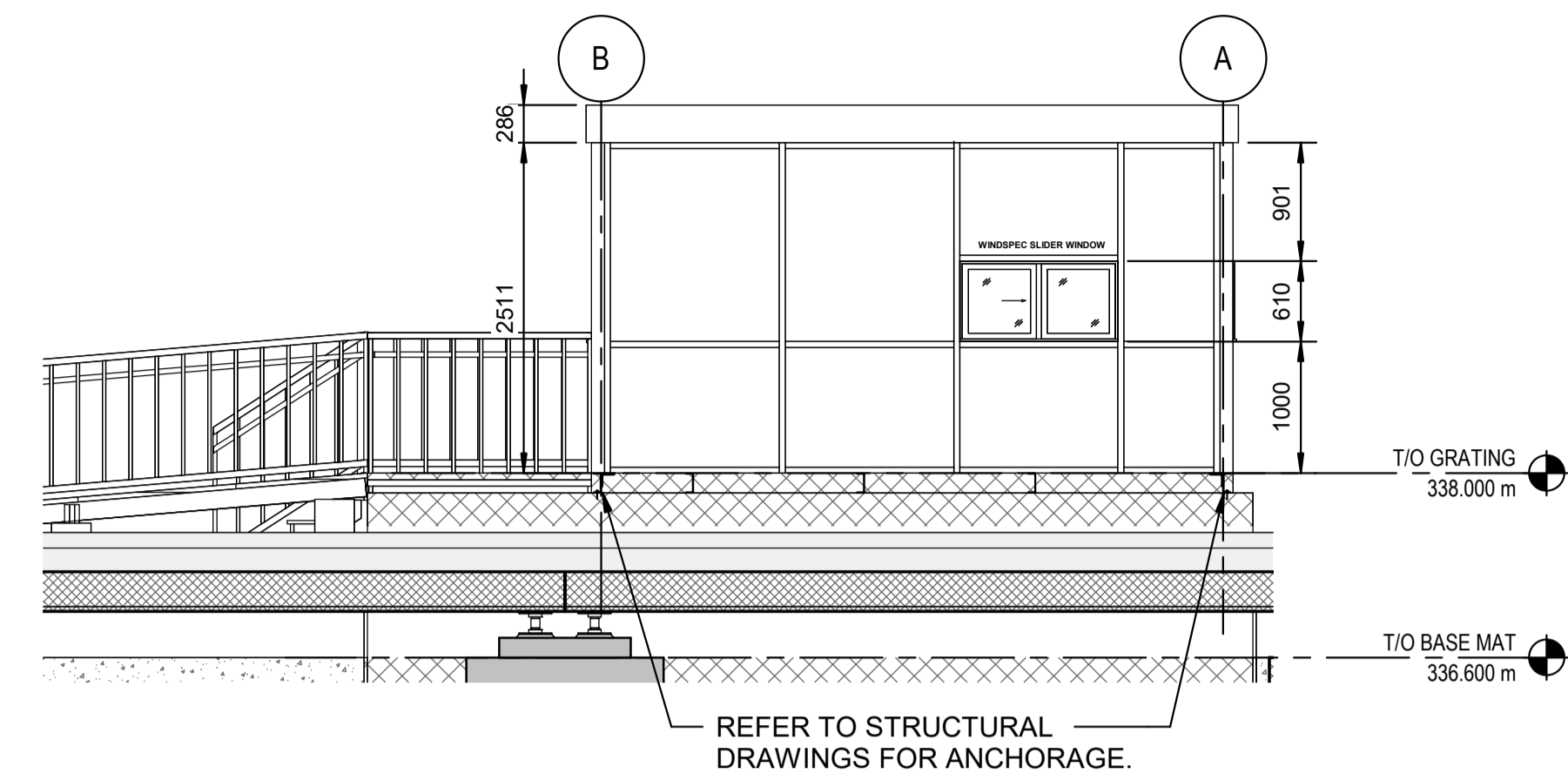
1 SCALE KIOSK GROUND FLOOR  
A-1001 1 : 50

NOTE:

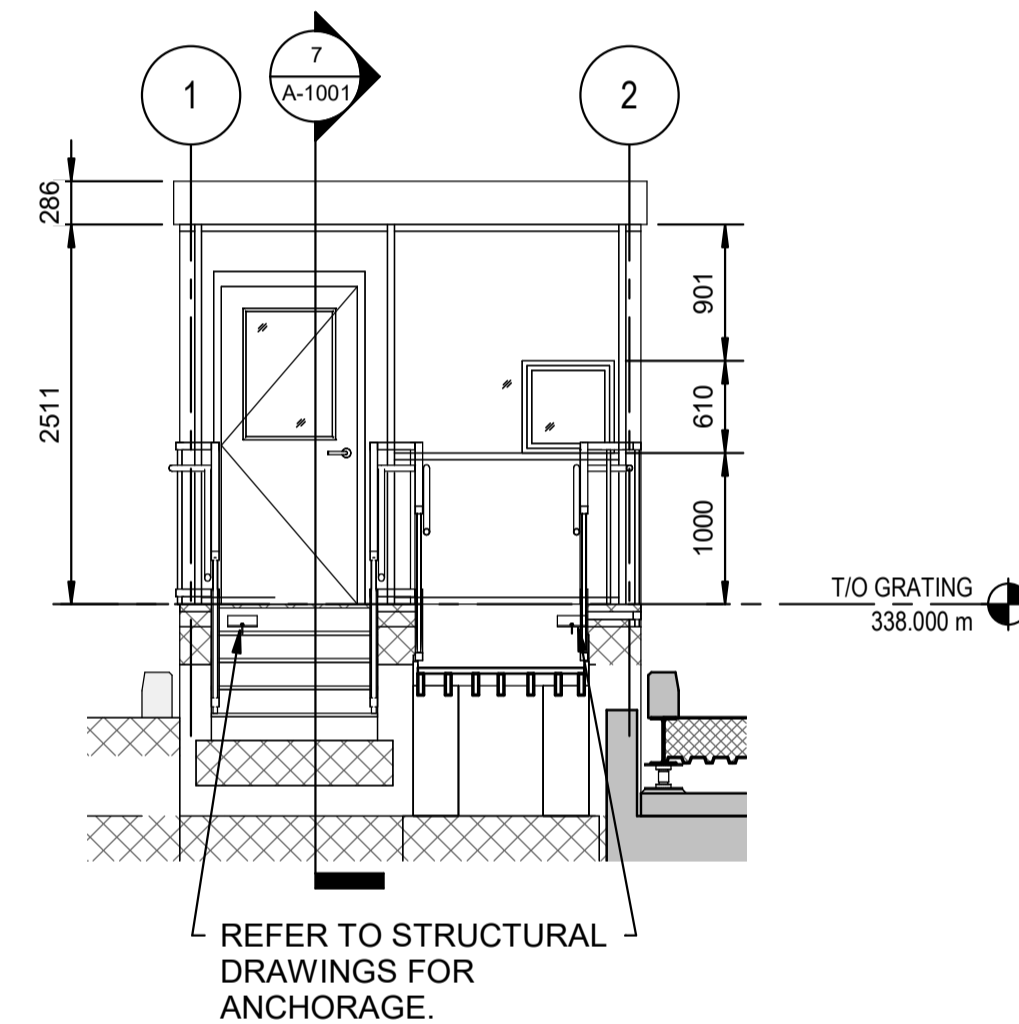
- A. KIOSK IS TO BE PRE-ENGINEERED. PLAN, ELEVATIONS AND SECTIONS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. SUBMIT P. ENG. STAMPED SHOP DRAWINGS FOR REVIEW AND APPROVAL.
- B. PRE-ENGINEERED KIOSK IS TO BE PRE-ENGINEERED BY NRB MODULAR SOLUTIONS INC. OR APPROVED EQUAL.
- C. KIOSK IS TO BE CONSTRUCTED 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.



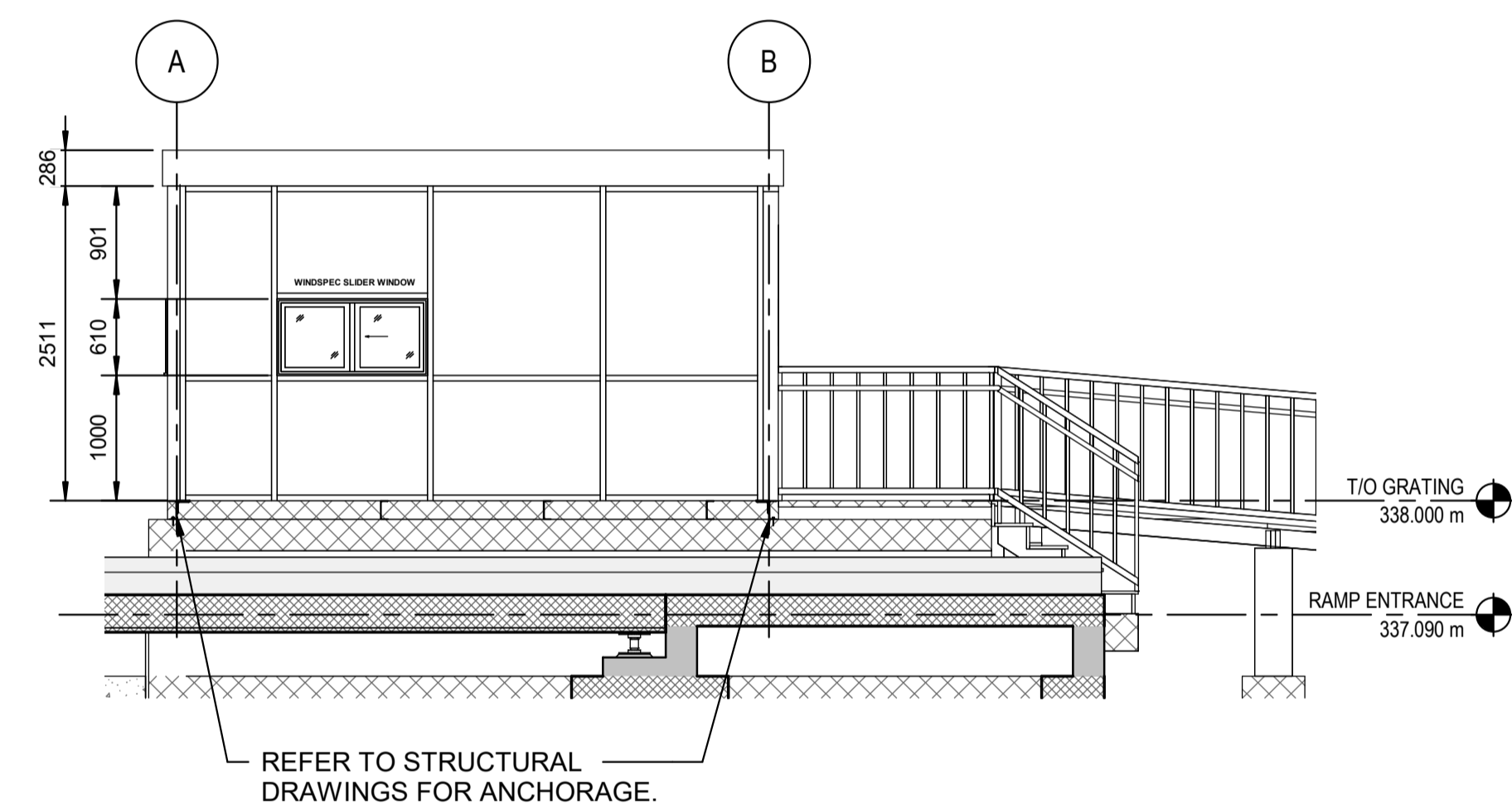
2 NORTH ELEVATION  
A-1001 1 : 50



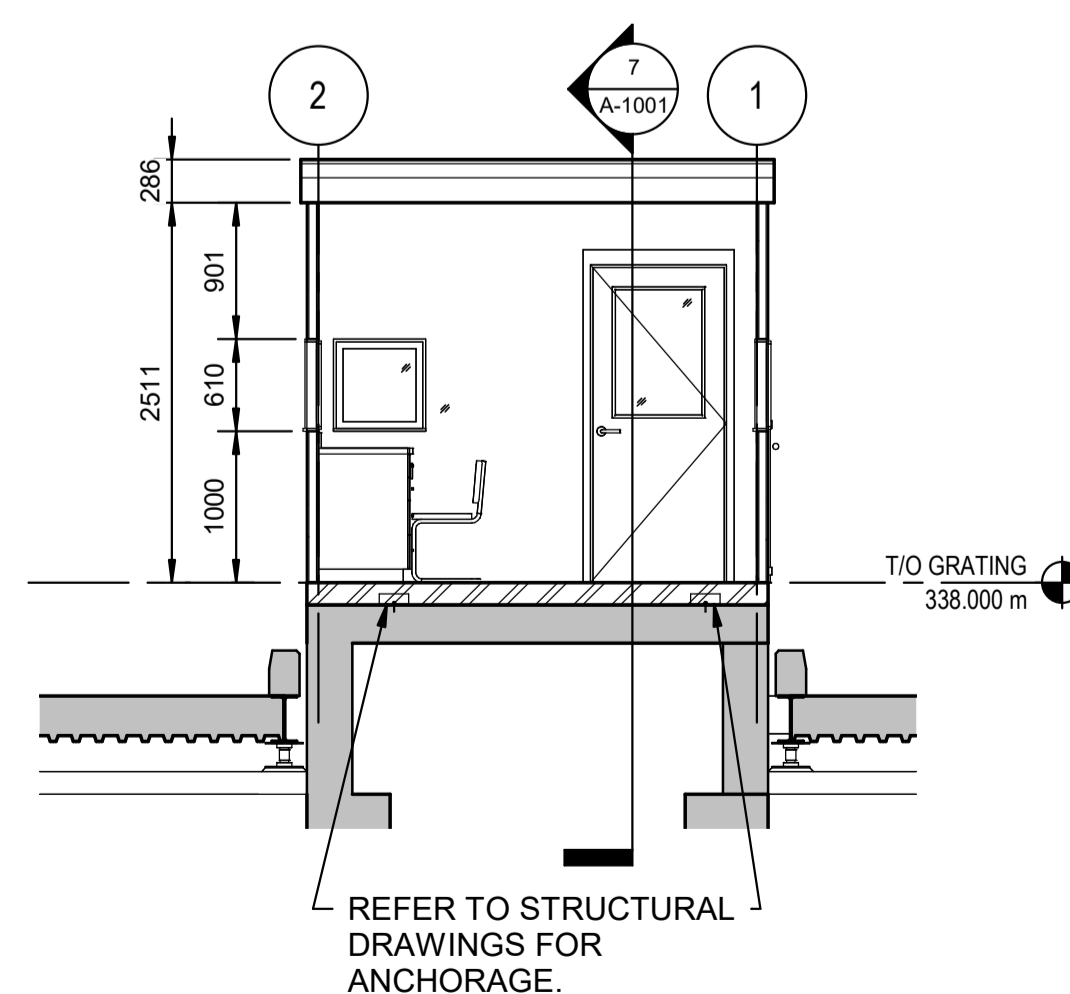
3 EAST ELEVATION  
A-1001 1 : 50



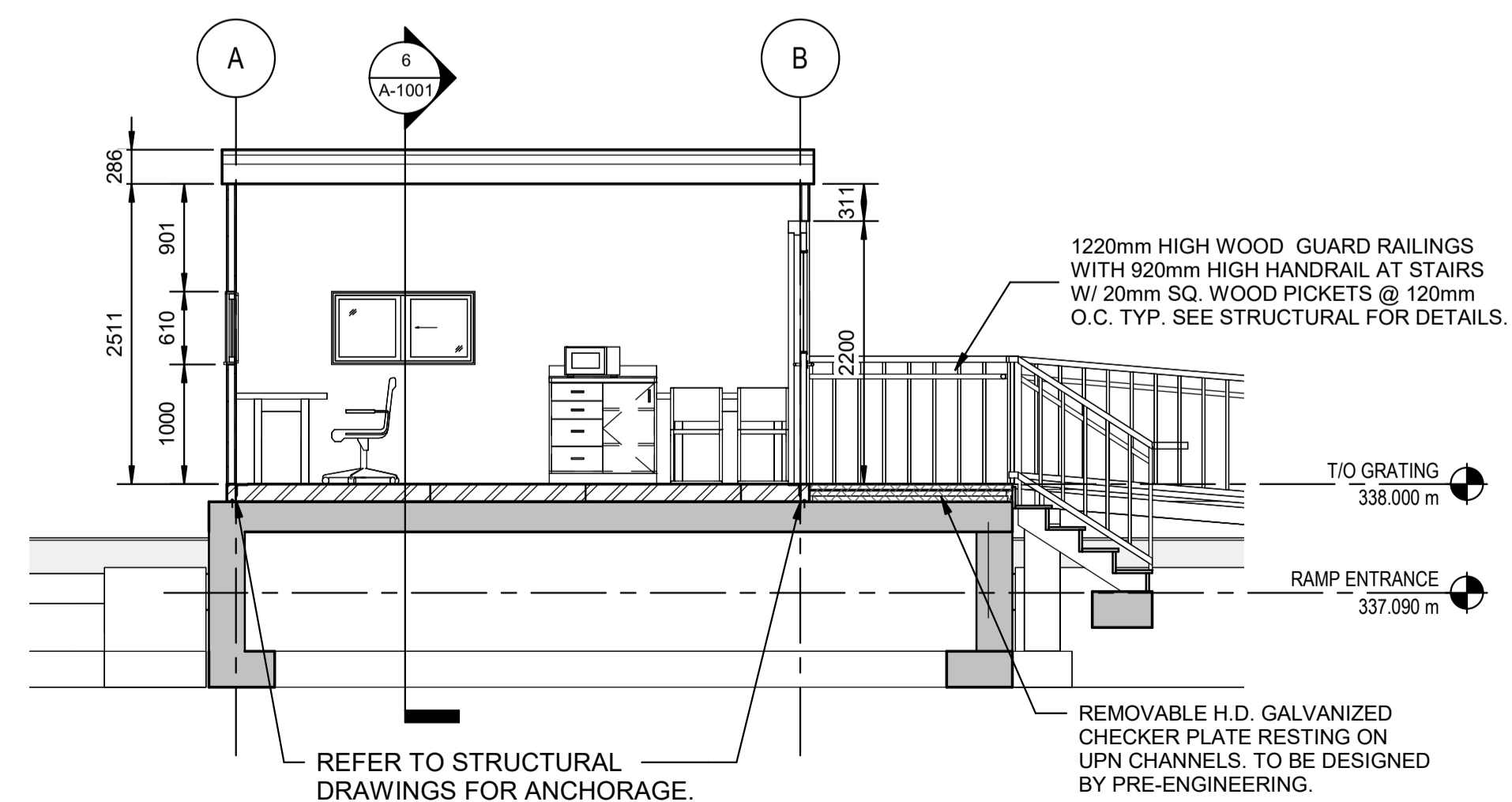
4 SOUTH ELEVATION  
A-1001 1 : 50



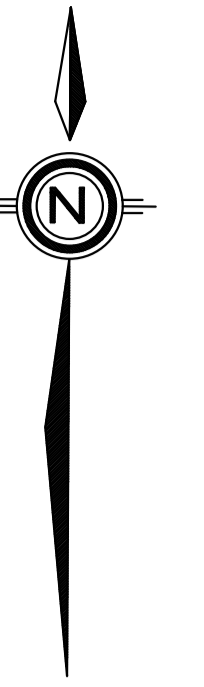
5 WEST ELEVATION  
A-1001 1 : 50



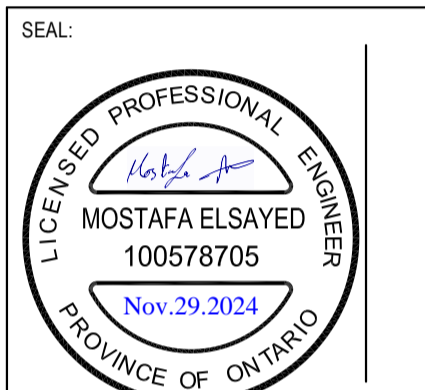
6 KIOSK SECTION  
A-1001 1 : 50



7 KIOSK SECTION  
A-1001 1 : 50



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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APPROVED BY: S.S.	DATE: 06/14/24
CHECKED BY: P.R.	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
DRAWN BY: S.S.	25mm

DISCIPLINE: ARCHITECTURAL



150 COMMERCE VALLEY DR. W.  
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PROJECT NUMBER:

CLIENT:



CLIENT REF. #:

PROJECT: SCOTCH LINE LANDFILL PROPOSED TRANSFER STATION

TITLE: SCALE KIOSK PLAN, ELEVATIONS AND SECTIONS

DRAWING NUMBER:

A-1001

REV:

3



**1. GENERAL**

- 1.1 STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND PROJECT SPECIFICATIONS.
- 1.2 THE GENERAL NOTES AND STRUCTURAL STANDARD DETAILS PROVIDED HERE ARE GENERAL AND APPLY TO THE ENTIRE PROJECT EXCEPT WHERE THERE ARE SPECIFIC 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 EXISTING 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 MAINTAIN CLEANLINESS OF THE CONSTRUCTION.
- 1.15 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY MEASURES DURING THE WORK.

**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,  $S_g = 2.7$  kPa
- ASSOCIATED RAIN LOADING,  $S_r = 0.4$  kPa
- IMPORTANCE FACTOR (HIGH),  $I_e = 1.15$  (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),  $I_e = 1.15$  (ULS) AND 0.75 (SLS)

**2.4. SEISMIC DATA FOR MINDEN, ON:**

- $S_d(0.2) = 0.124$
- $S_d(0.5) = 0.089$
- $S_d(1.0) = 0.054$
- $S_d(2.0) = 0.028$
- $S_d(5.0) = 0.0071$
- $S_d(10.0) = 0.0031$
- $P_{GV} = 0.073$
- $P_{GA} = 0.071$
- 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**

- 2.5.1.1. 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.

**2.5.2. 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. MATERIALS**

**3.1. ENGINEERED BACKFILL**

- UNIT WEIGHT = 21 kN/m<sup>3</sup>
- 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)
  - UNSHINKABLE FILL (U-Fill) = 0.7 MPa
- 3.2.1. CONCRETE EXPOSURE CLASS, CONCRETE STRENGTH AND MIX DESIGN, ACCESSORIES AND PLACEMENT TO CONFORM TO SPECIFICATIONS.
  - 3.2.2. CAST-IN-PLACE CONSTRUCTION AGAINST THE GROUND. EXTEND 300MM MINIMUM BEYOND FOUNDATIONS UNO.
  - 3.2.3. ALL EXPOSED EDGES TO HAVE 25MM CHAMFER UNO.
  - 3.2.4. **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°C ON 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 BE 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.

BAR SIZE	REINFORCEMENT SPLICES					
	35 MPa CONCRETE, NORMAL WEIGHT, 400 MPa REINFORCING BARS					
	LAP LENGTH (mm)					
	TOP BARS (mm)		ALL OTHER BARS (mm)		DOWELS	
	CLASS A	CLASS B	CLASS A	CLASS B	A	B
10M	360	470	300	360	300	360
15M	510	670	400	510	400	510
20M	620	810	480	620	480	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 MATCH WALL REINFORCEMENT UNLESS NOTED OTHERWISE. USE CLASS A LENGTH FOR ANCHORAGE.

NOTE 2: TOP BARS ARE:  
A) ALL BARS IN CONCRETE WITH MORE THAN 300mm CONCRETE BELOW.  
B) ALL HORIZONTAL BARS IN WALLS.

NOTE 3: PROVIDE CLASS B LAP UNLESS NOTED OTHERWISE

NOTE 4: LAP SPLICE LENGTHS SHOWN IN THE TABLE ARE BASED ON HEAVIER CONFINED BARS.

NOTE 5: TABLE APPLIES UNLESS SHOWN OTHERWISE.

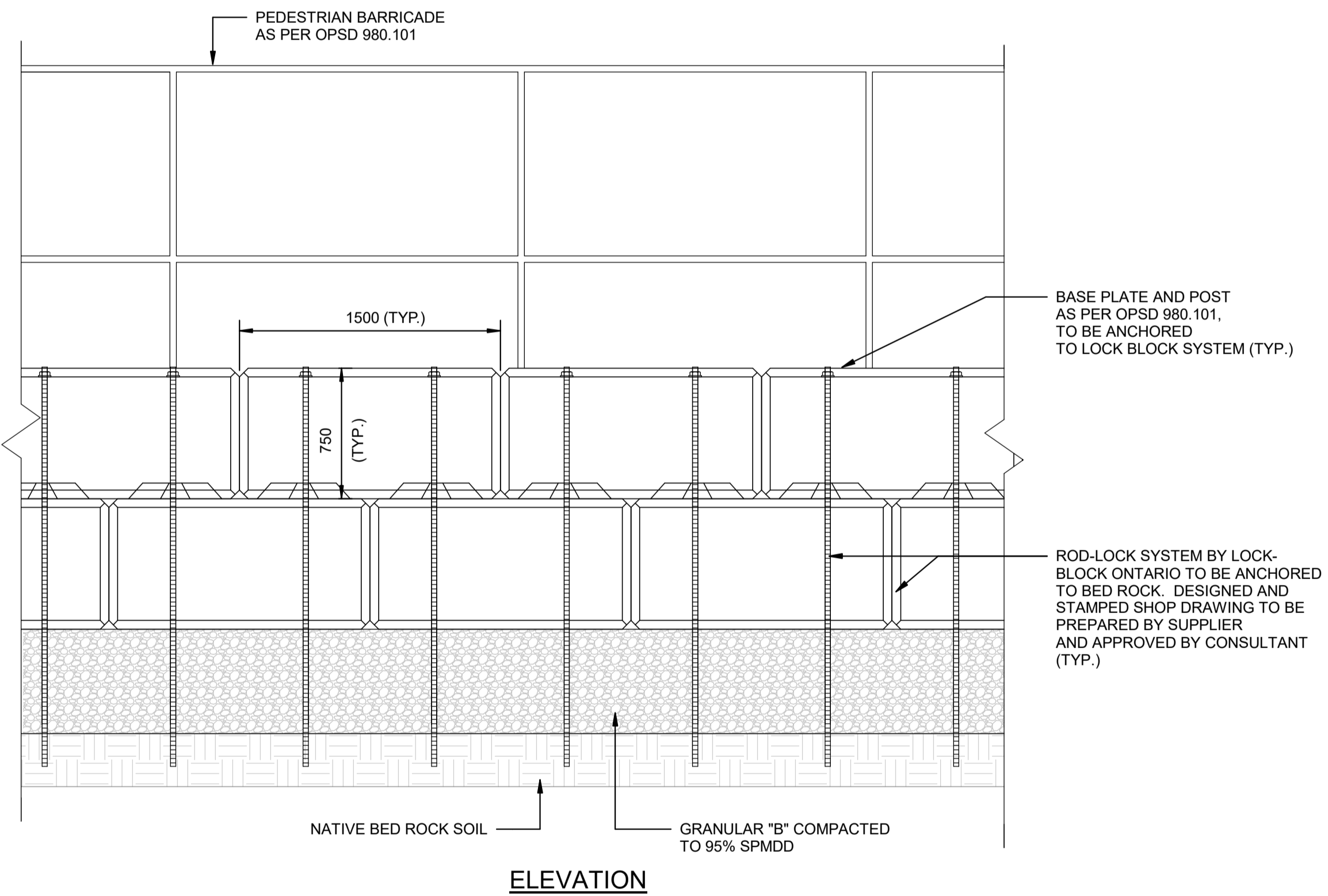
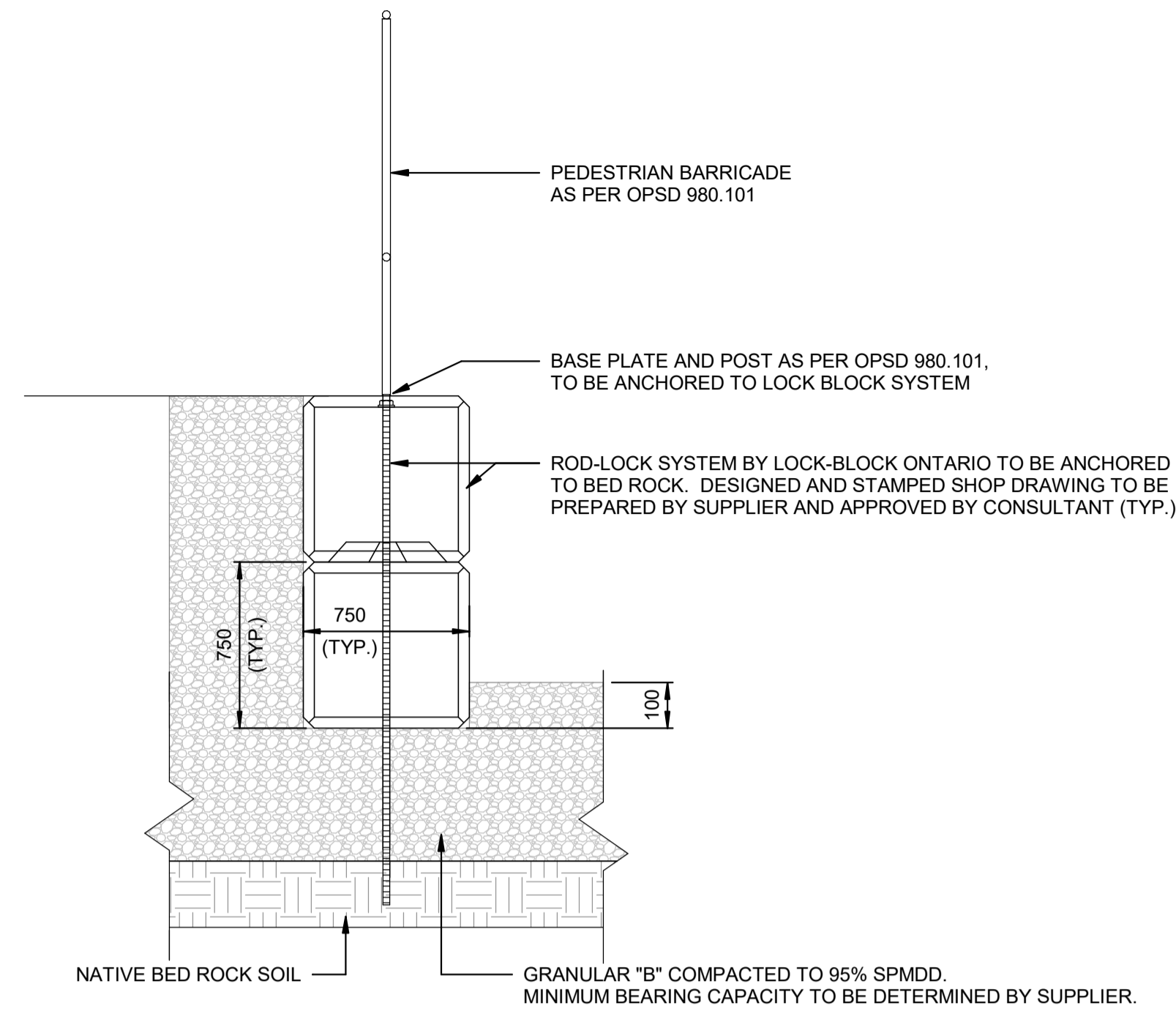
NOTE 6: DEVELOPMENT LENGTHS ARE EQUAL TO CLASS 'A' LAP SPLICES.

NOTE 7: DEVELOPMENT LENGTHS ARE FOR UNCOATED REINFORCEMENT.

NOTE 8: ALL HOOKS SHOWN ON DRAWINGS TO BE STANDARD HOOKS CONFORMING TO CAN/CSA A23.3 (UNO). WHERE HOOKS NOT SHOWN, FOLLOW CAN/CSA A23.3 (UNO).

**4.0 WEIGH SCALE:**

- REFER TO ACTIVE SCALE'S SHOP DRAWINGS FOR DETAILS

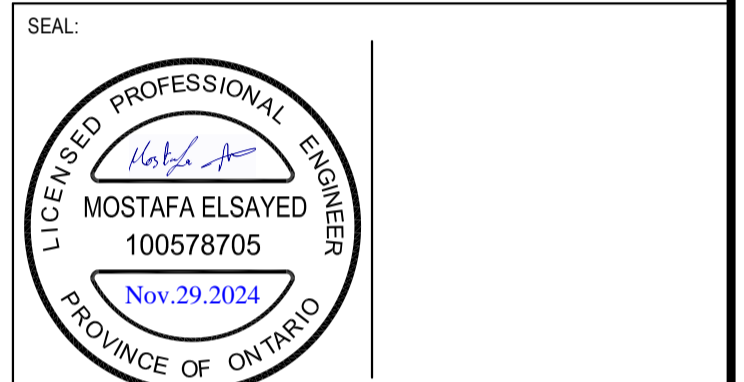


**RETAINING BLOCK WALL DETAIL**

N.T.S.

REVISION:

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



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ORIGINAL SCALE: SEE SCALE BAR DATE: 07/06/23

APPROVED BY: R.L.

CHECKED BY: R.L.

DRAWN BY: A.Z.

IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.

25mm

DISCIPLINE: **STRUTURAL**



PROJECT NUMBER:

CLIENT:



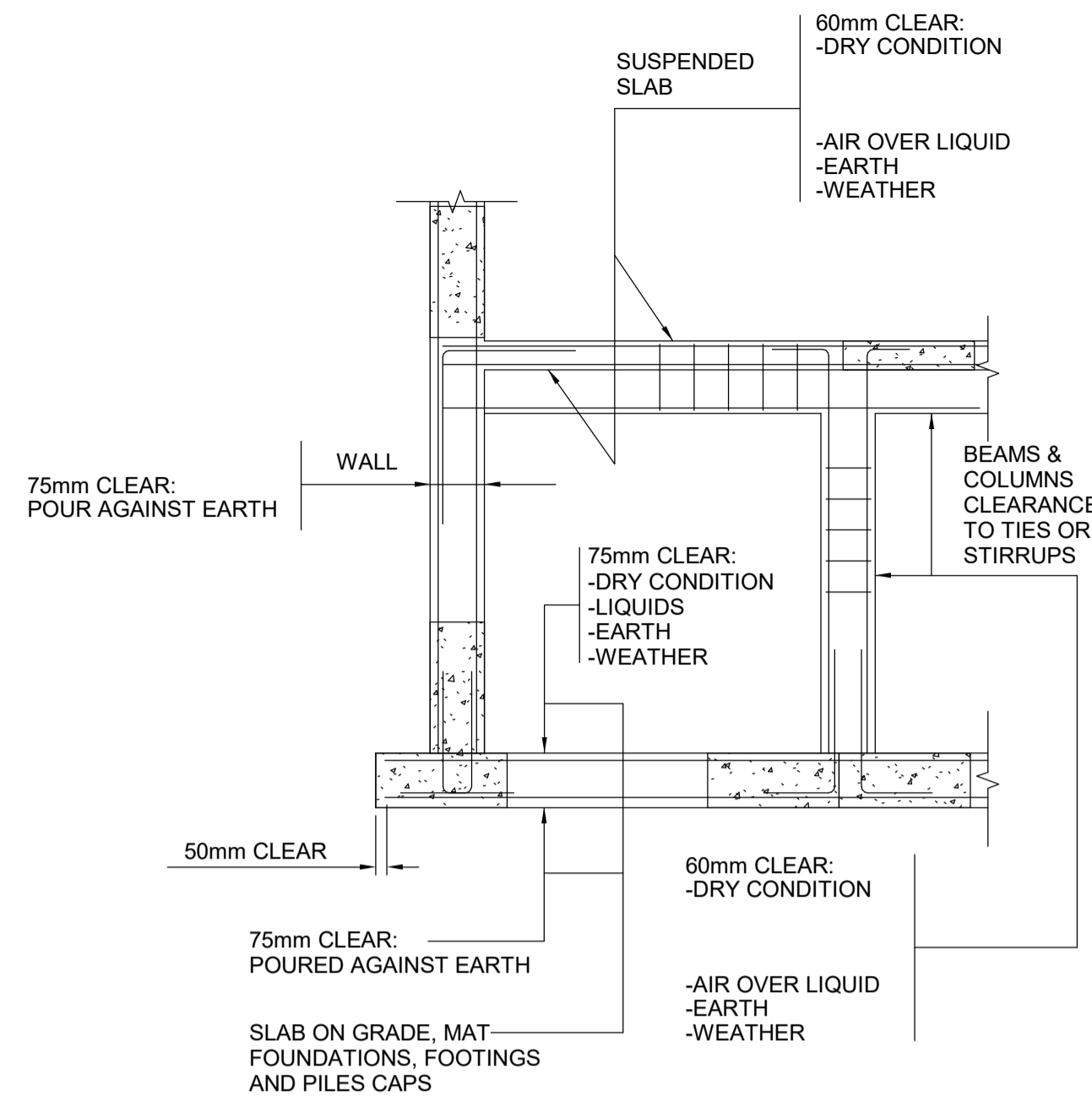
CLIENT REF. #: --

PROJECT:  
**SCOTCH LINE LANDFILL  
PROPOSED TRANSFER  
STATION**

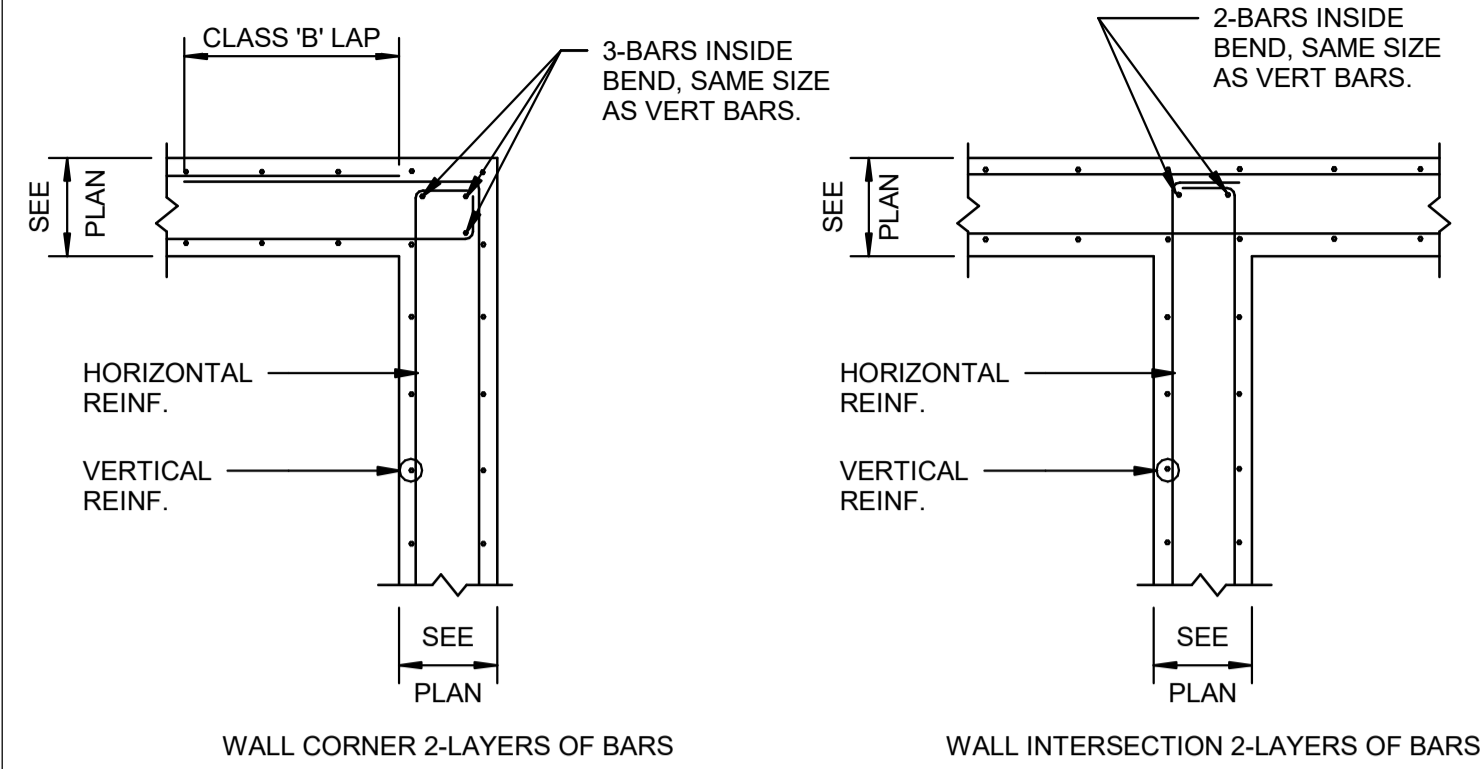
TITLE:  
**GENERAL NOTES AND  
STANDARD DETAILS (1)**

DRAWING NUMBER: **S-0001** REV: **1**

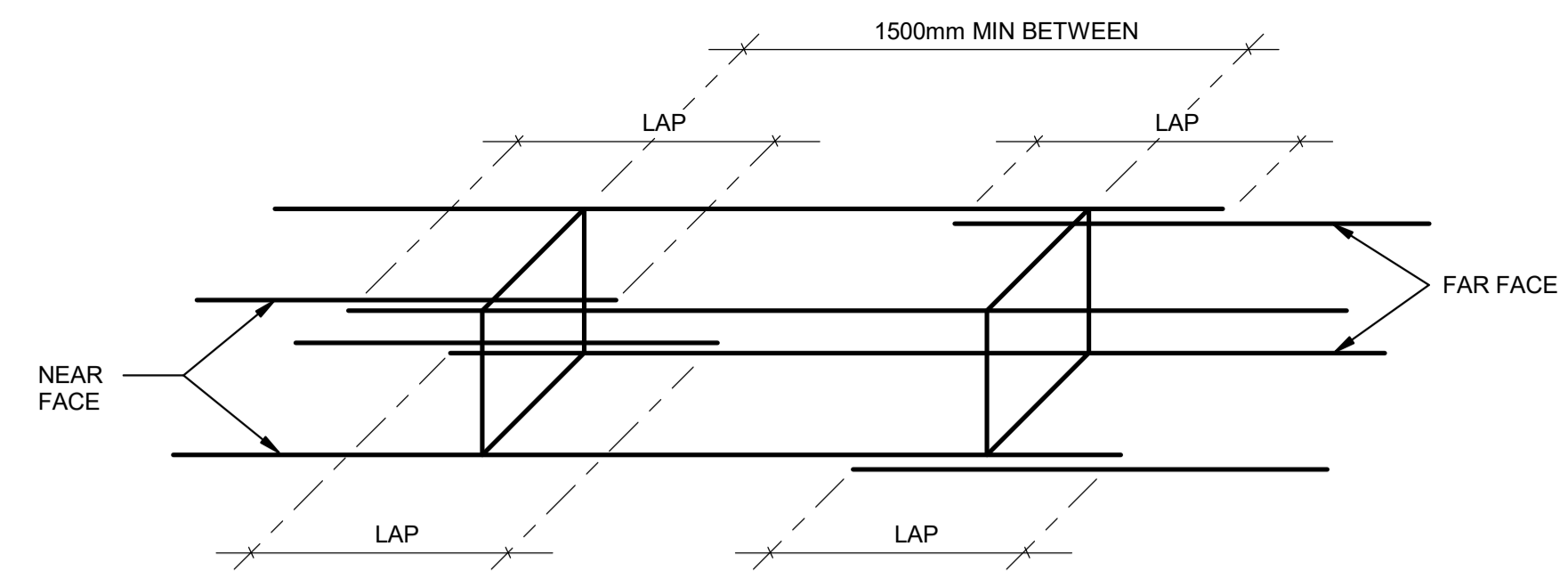




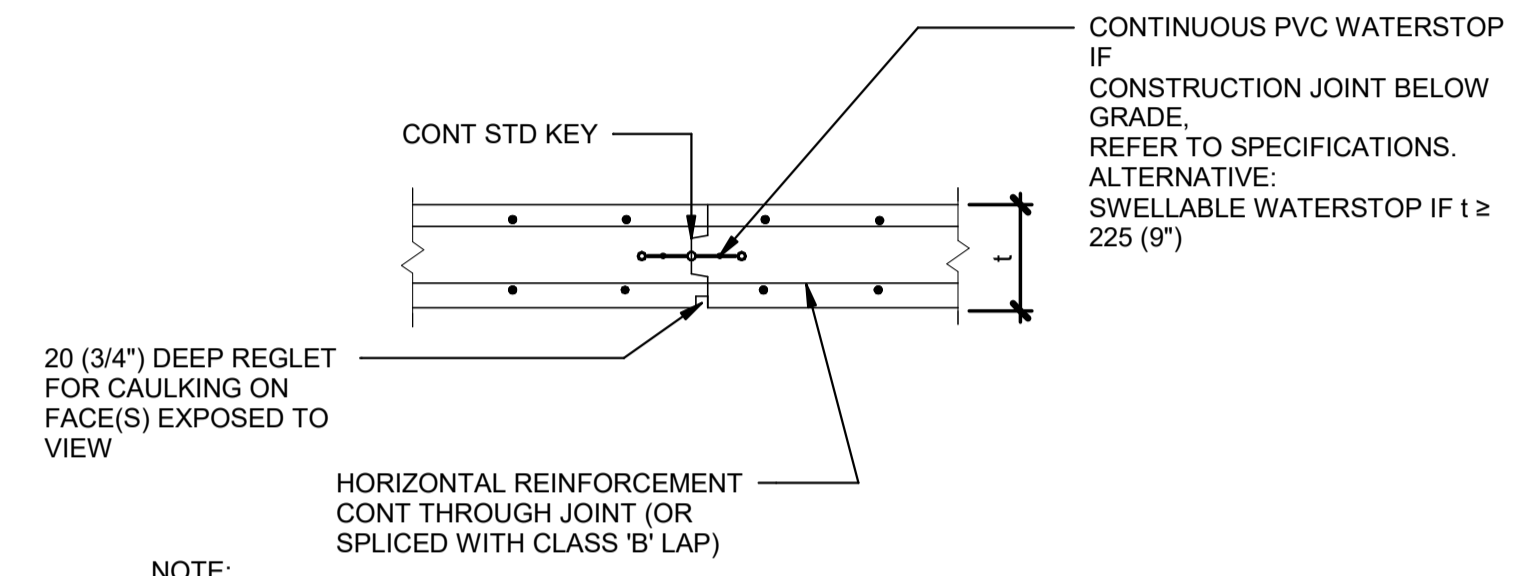
**CONCRETE COVER TO REINFORCEMENT**  
NTS



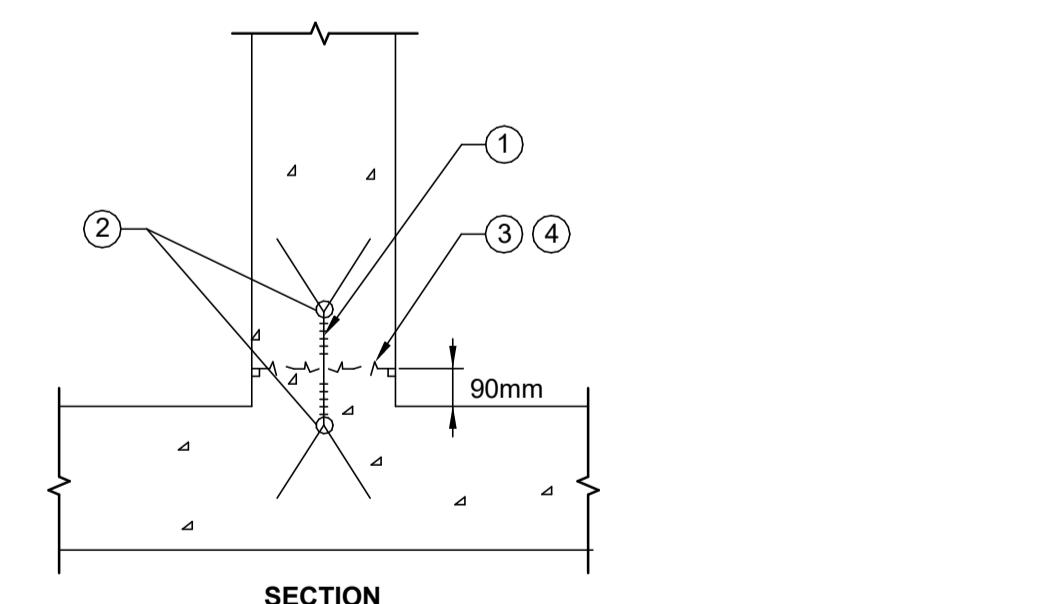
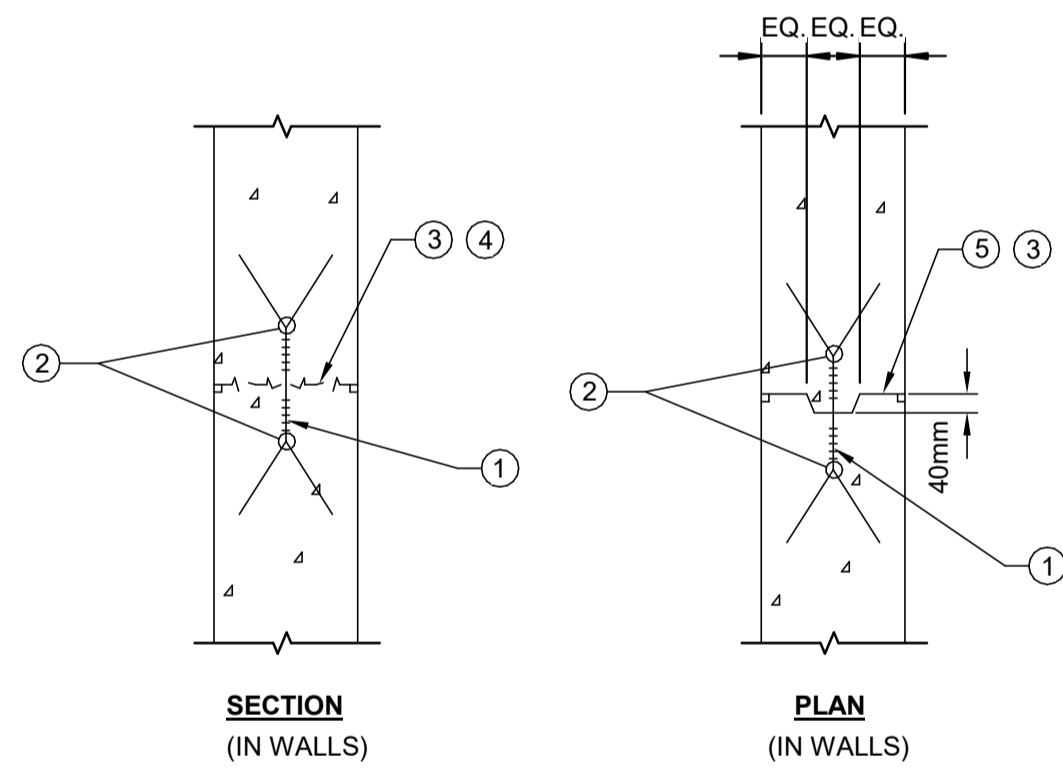
**CONC. WALL CORNER & INTERSECTION REINFORCING**  
NTS



**ARRANGEMENT FOR HORIZONTAL REINFORCING BARS**  
NTS

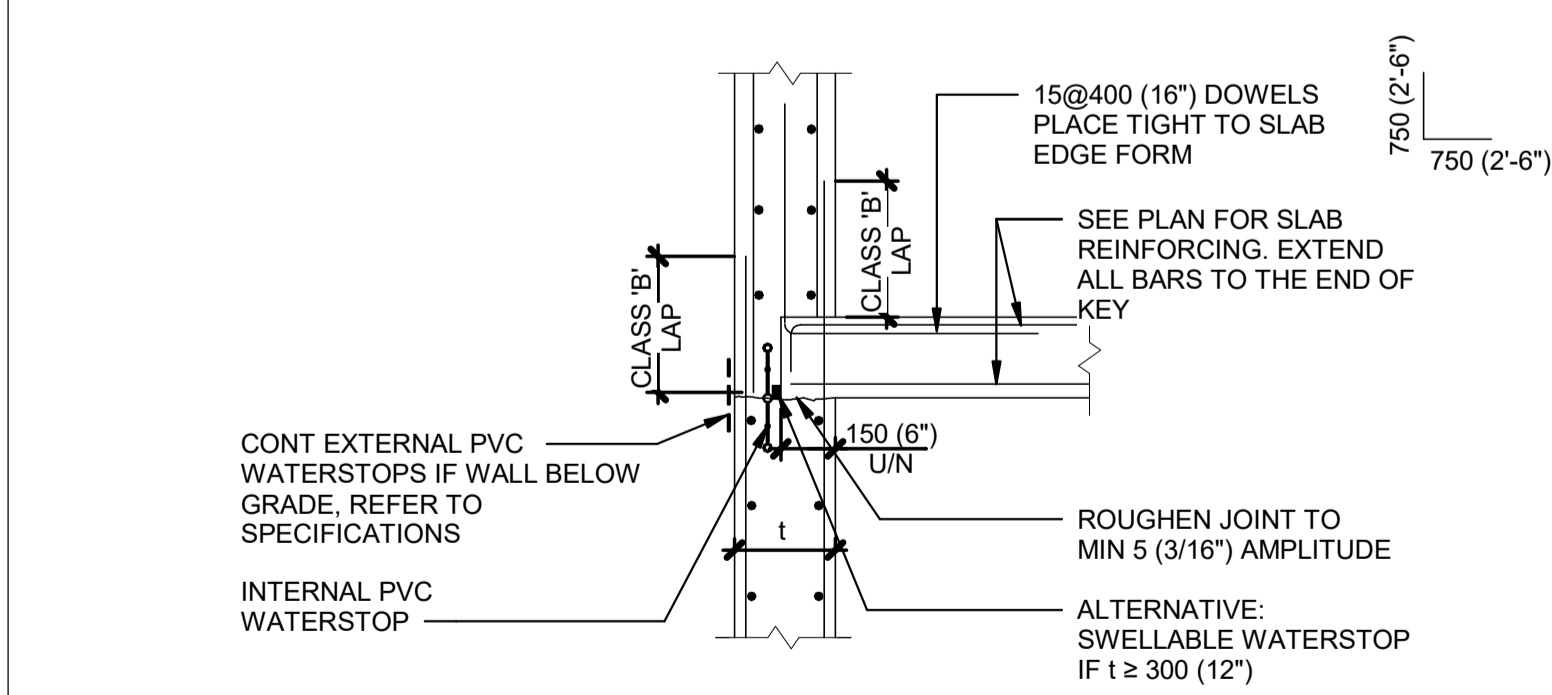
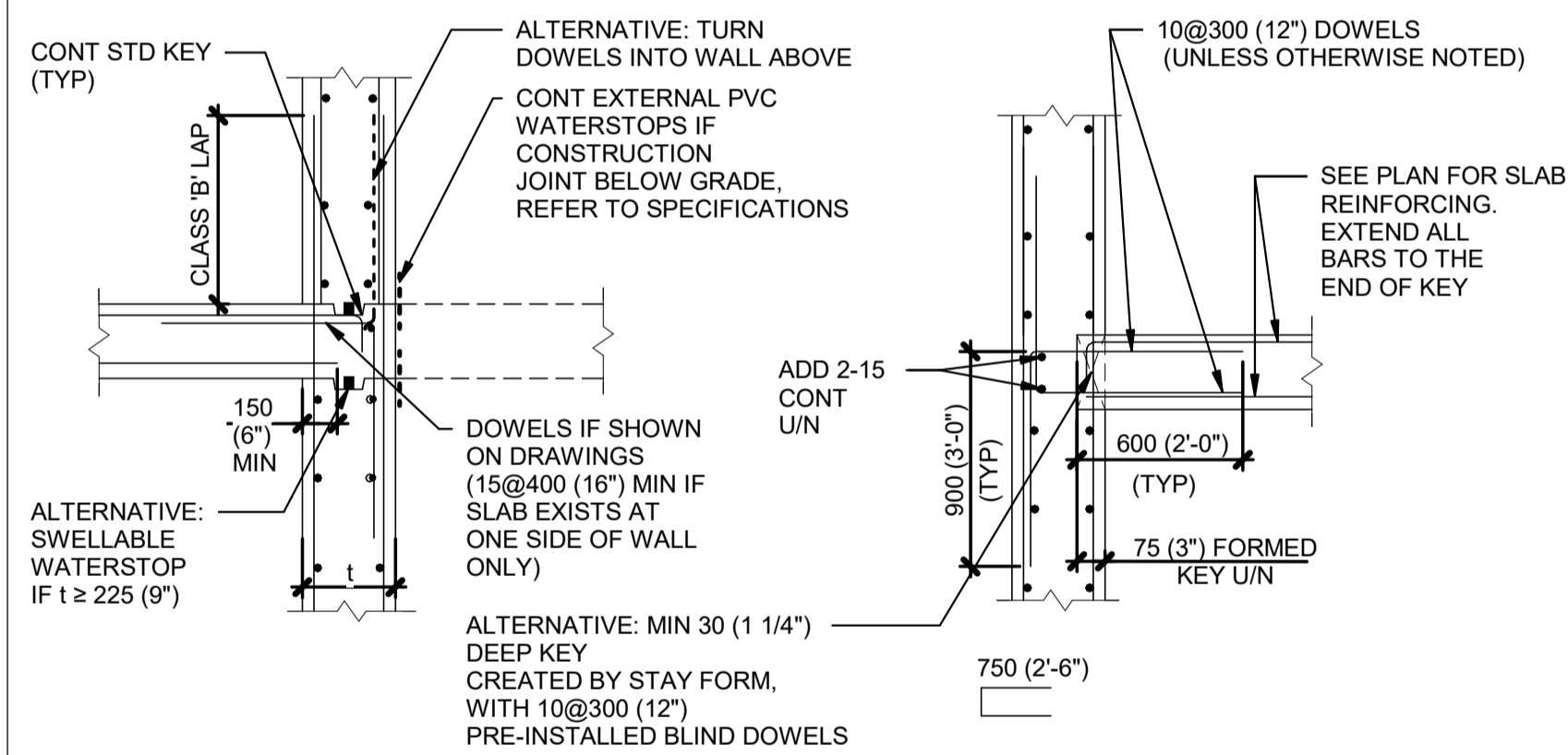


**CONSTRUCTION JOINT IN WALL**  
NTS

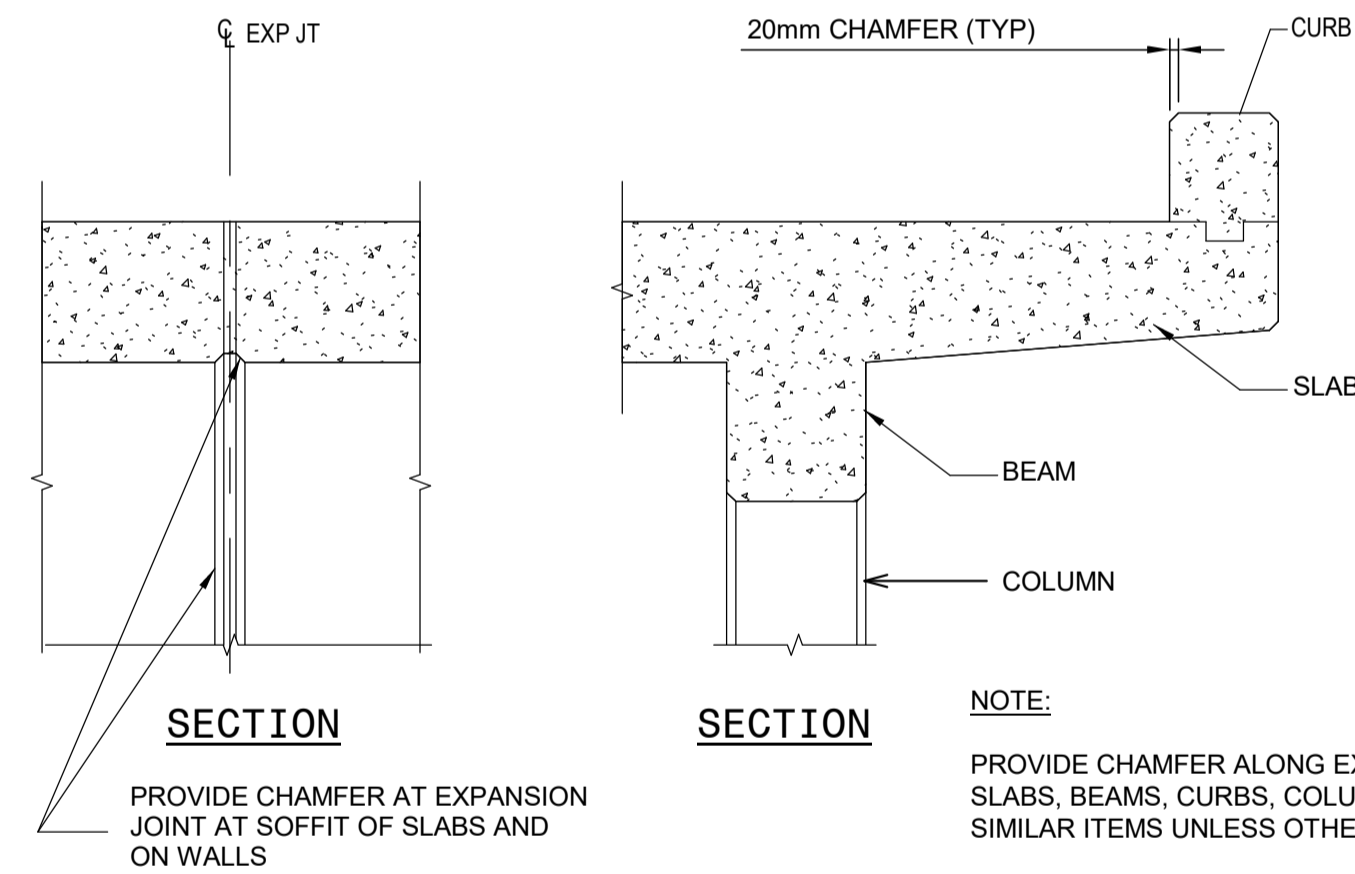


- 1 150mmx10mm P.V.C. WATERSTOP.
- 2 CONTINUOUS 10M REINF. BARS TIED TO WATERSTOP AT 300mm C/C AND TIED TO MAIN REINF. AT 600mm C/C.
- 3 CLEAN FIRST POUR SURFACE THOROUGHLY OF ALL CONTAMINANTS LAITANCE OR INFERIOR CONCRETE BEFORE SECOND POUR AND ROUGHEN TO FULL 5mm AMPLITUDE.
- 4 LEAVE SURFACE ROUGH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

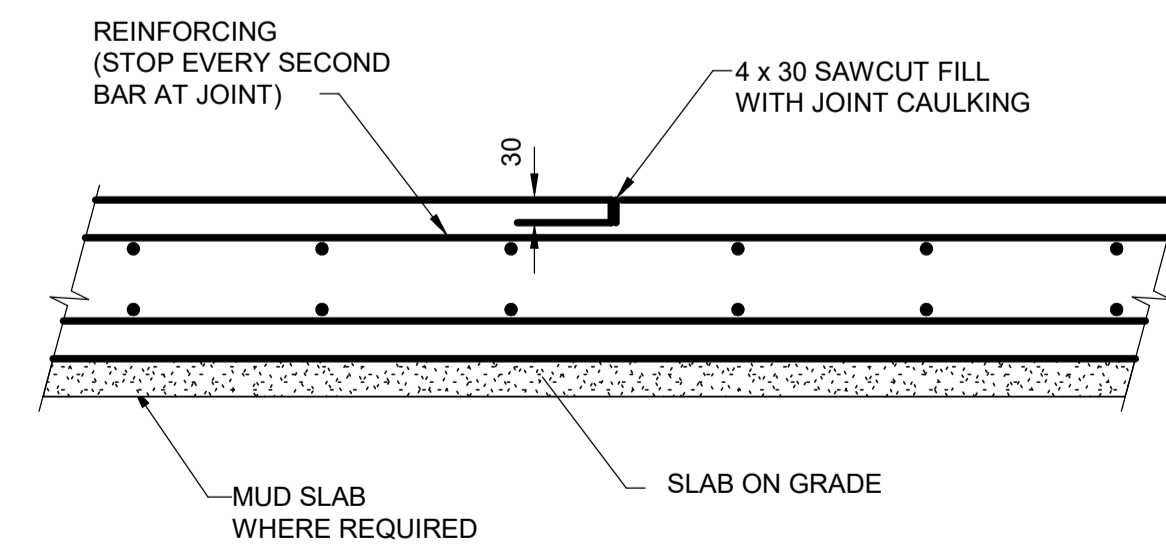
**CONSTRUCTION JOINT DETAIL**  
NTS



**CONCRETE WALL AT SLAB SUPPORT**  
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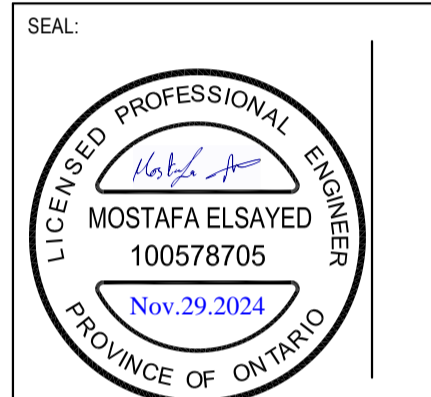


**CHAMFERS**  
NTS



**CONTROL JOINTS FOR SLAB ON GRADE**  
NTS

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



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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.	25mm
DRAWN BY: A.Z.	

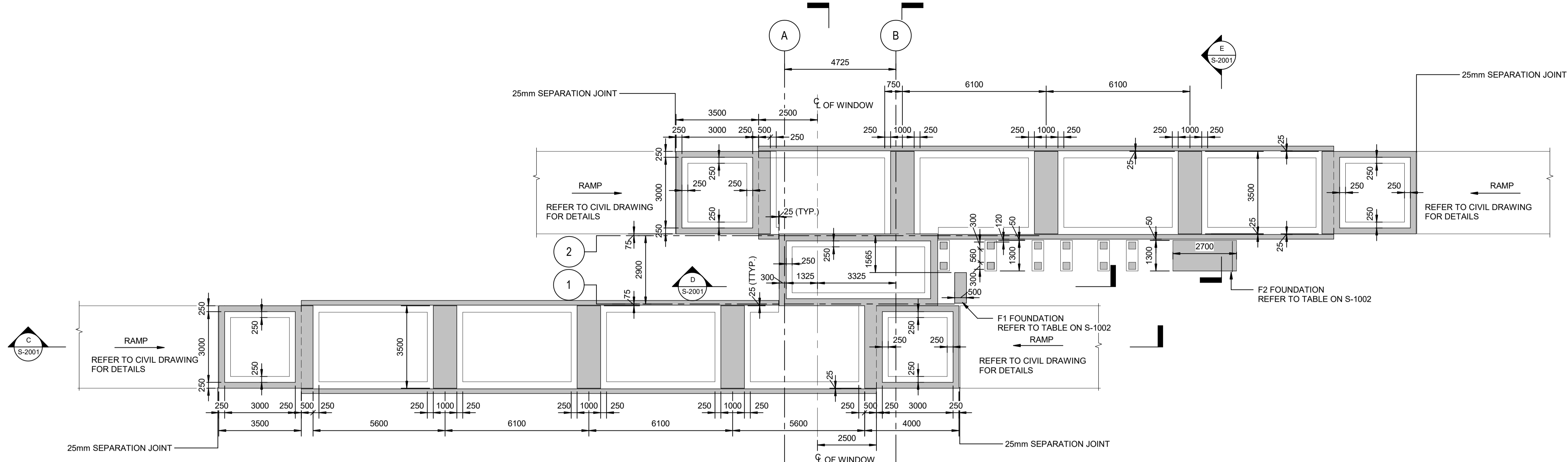
DISCIPLINE: **STRUCTURAL**



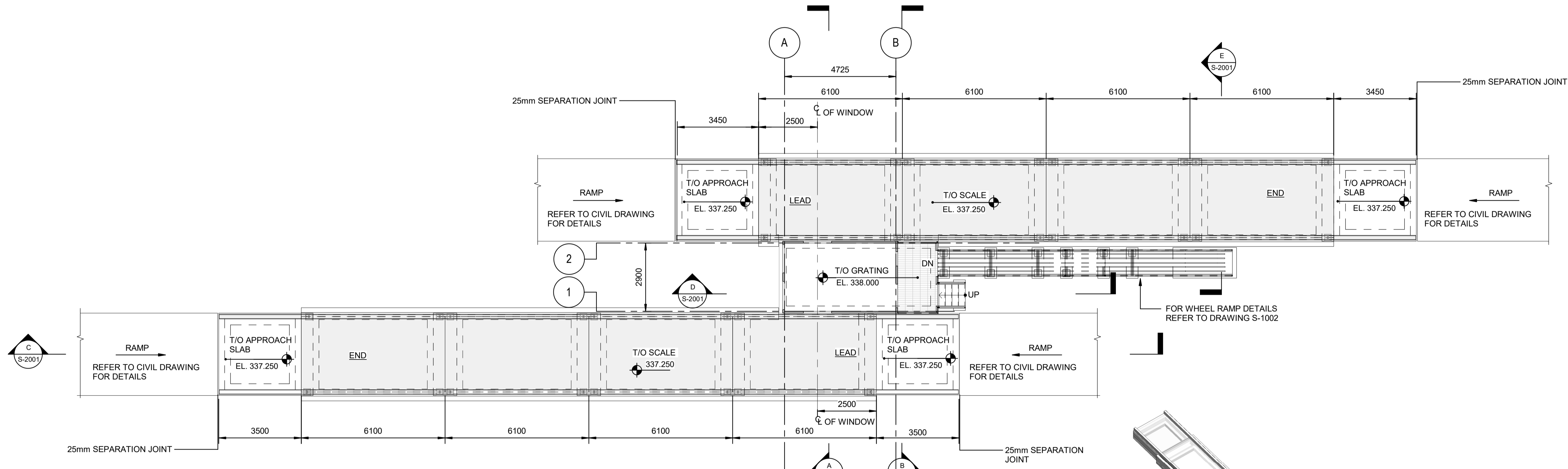
PROJECT: **SCOTCH LINE LANDFILL PROPOSED TRANSFER STATION**

TITLE: **STANDARD DETAILS (2)**

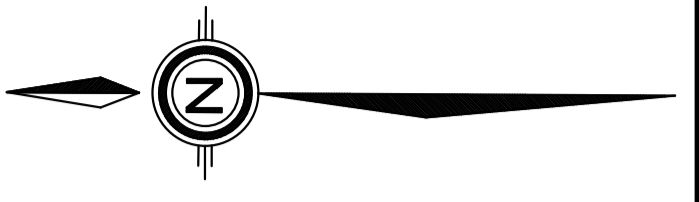
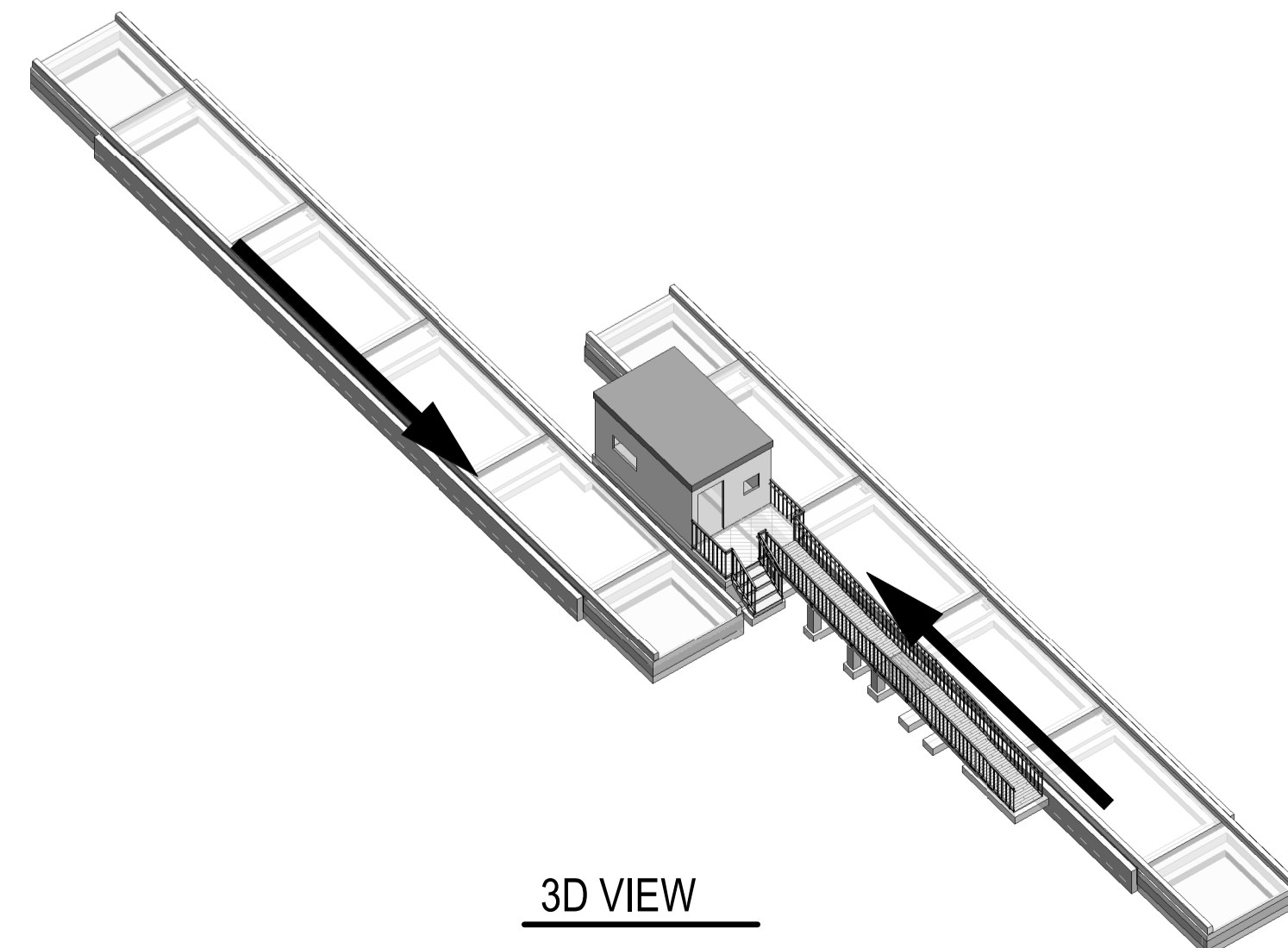
DRAWING NUMBER: **S-0002** REV: **1**



**FOUNDATION PLAN**  
1:100  
NOTE:  
TOP OF FOUNDATION IS 336.600, UNLESS OTHERWISE NOTED.

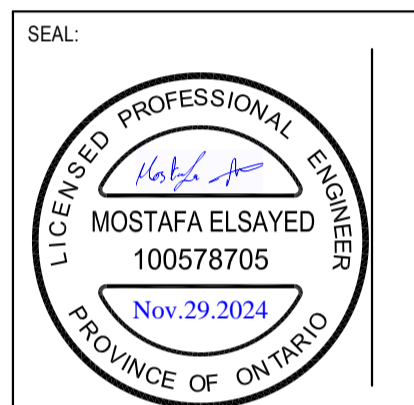


**MAIN FLOOR PLAN**  
1:100



REVISION:

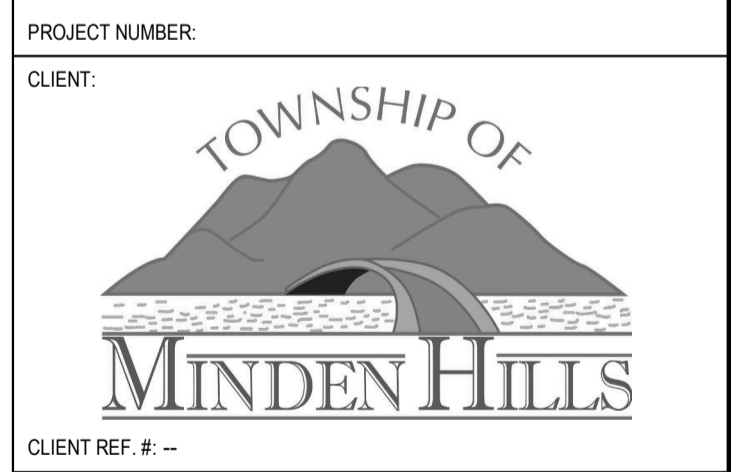
REV	DATE	DESCRIPTION	BY
5	DEC 2024	ISSUED FOR TENDER	M.E.
4	NOV 2024	ISSUED FOR 100% SUBMISSION	M.E.
3	SEPT 2024	ISSUED FOR PERMIT	M.E.
2	AUG 2024	ISSUED FOR 90% DETAILED DESIGN	M.E.
1	JUNE 2024	ISSUED FOR 30% PRELIMINARY DESIGN	M.E.



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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:  
**SCOTCH LINE LANDFILL  
PROPOSED TRANSFER  
STATION**

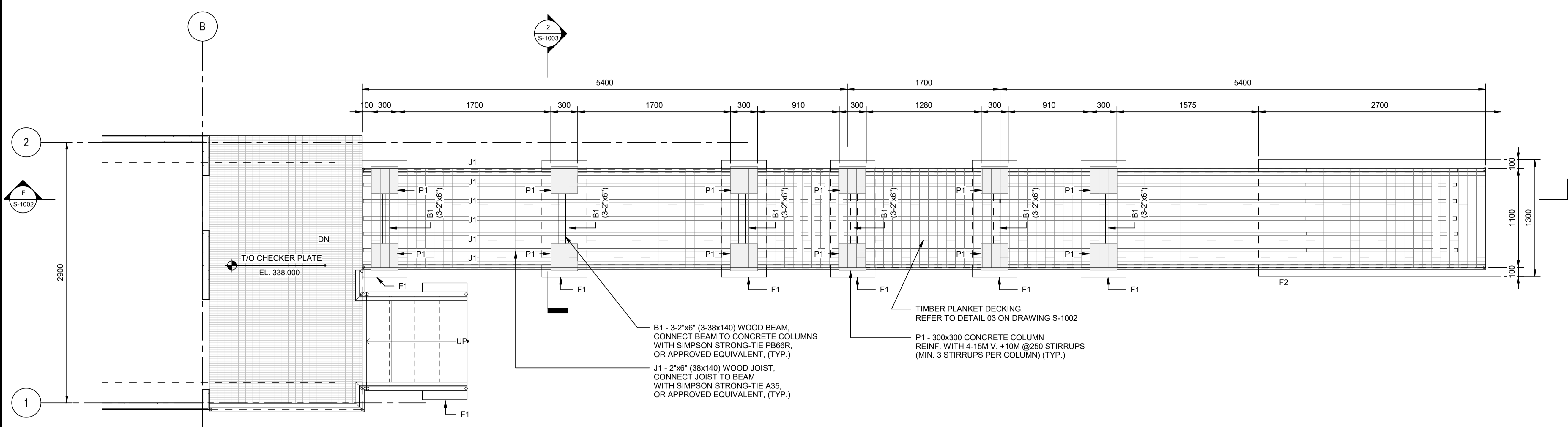
TITLE:  
**OVERALL PLAN**

DRAWING NUMBER:  
**S-1001**

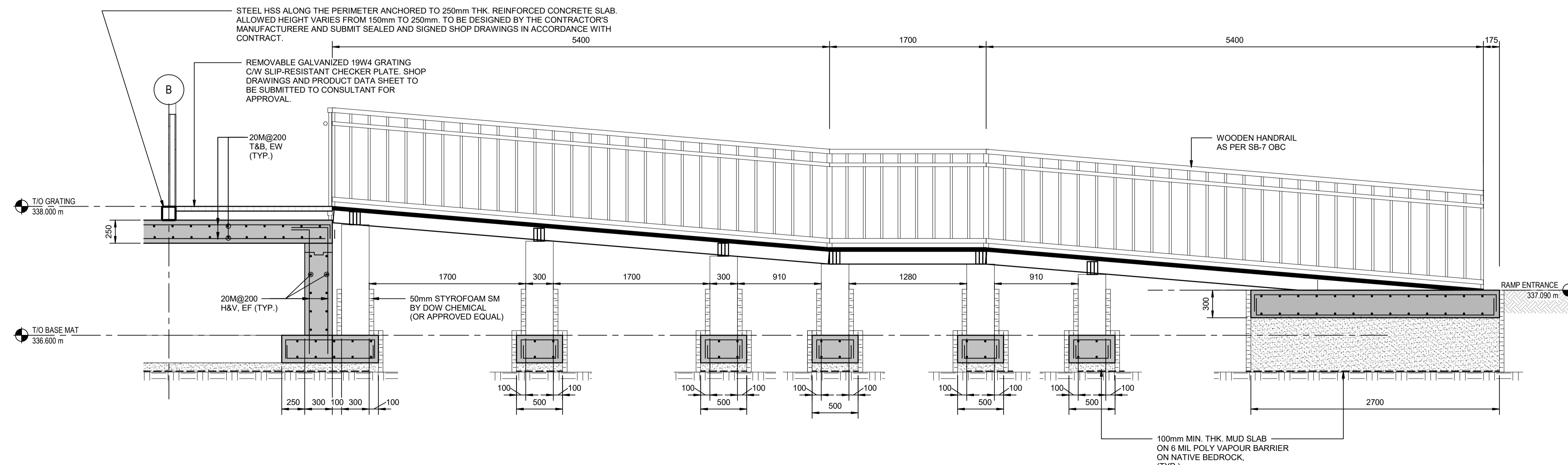
REV:  
**3**



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

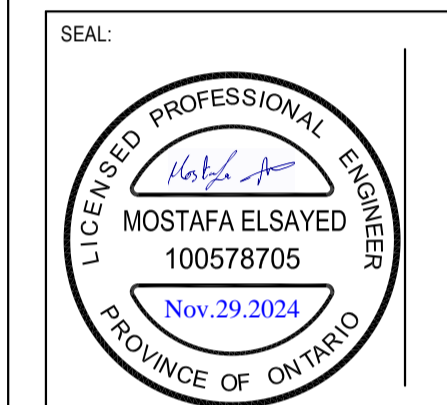


**WHEEL CHAIR RAMP PLAN**  
1:25



**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.



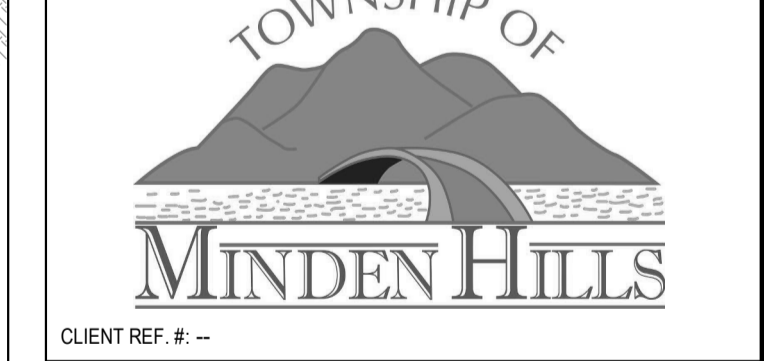
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ORIGINAL SCALE: SEE SCALE BAR	DATE: 08/16/24
APPROVED BY: R.L.	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE. 25mm
CHECKED BY: R.L.	
DRAWN BY: A.Z.	

DISCIPLINE:



PROJECT NUMBER:  
CLIENT:

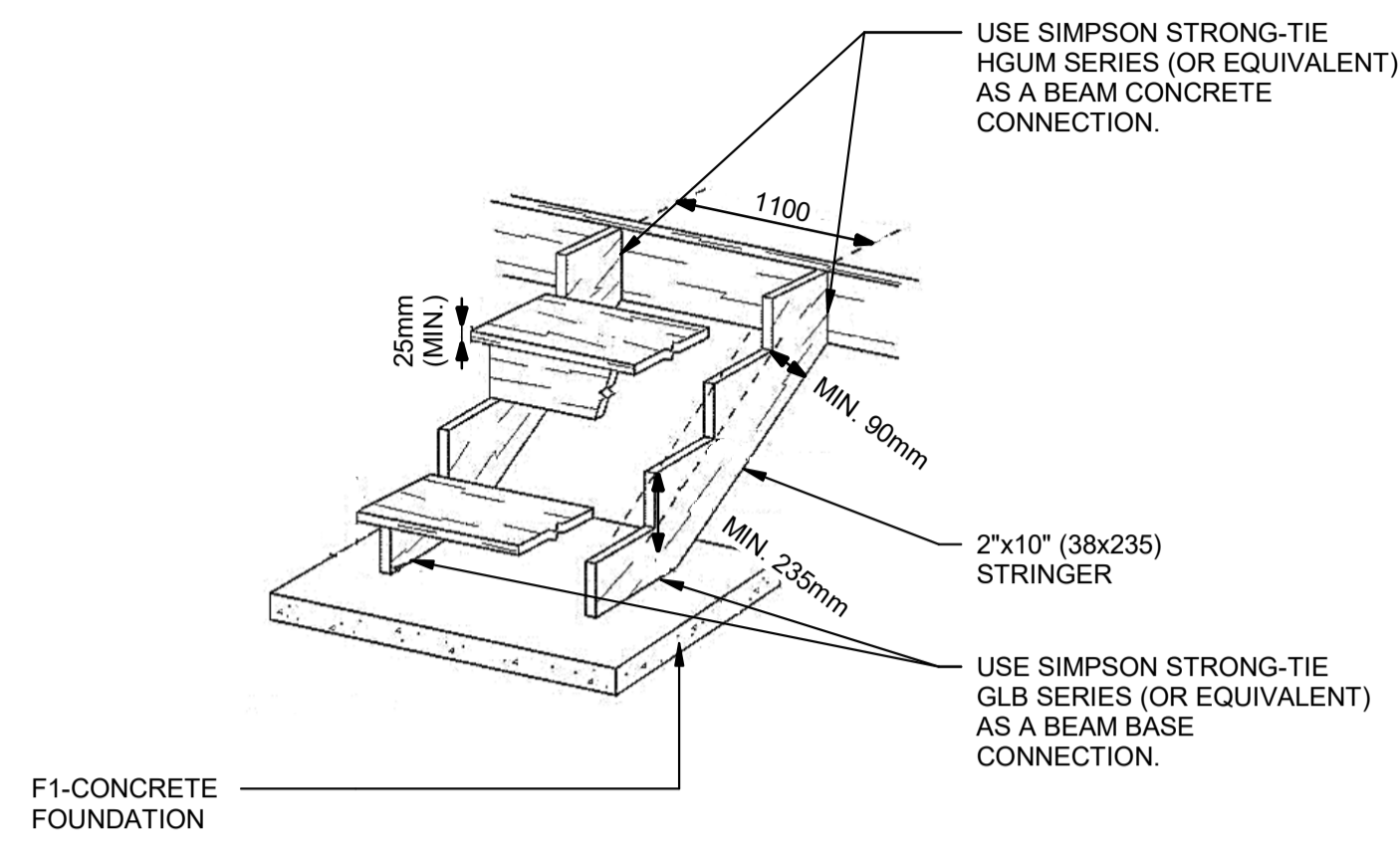


PROJECT:  
**SCOTCH LINE LANDFILL  
PROPOSED TRANSFER  
STATION**

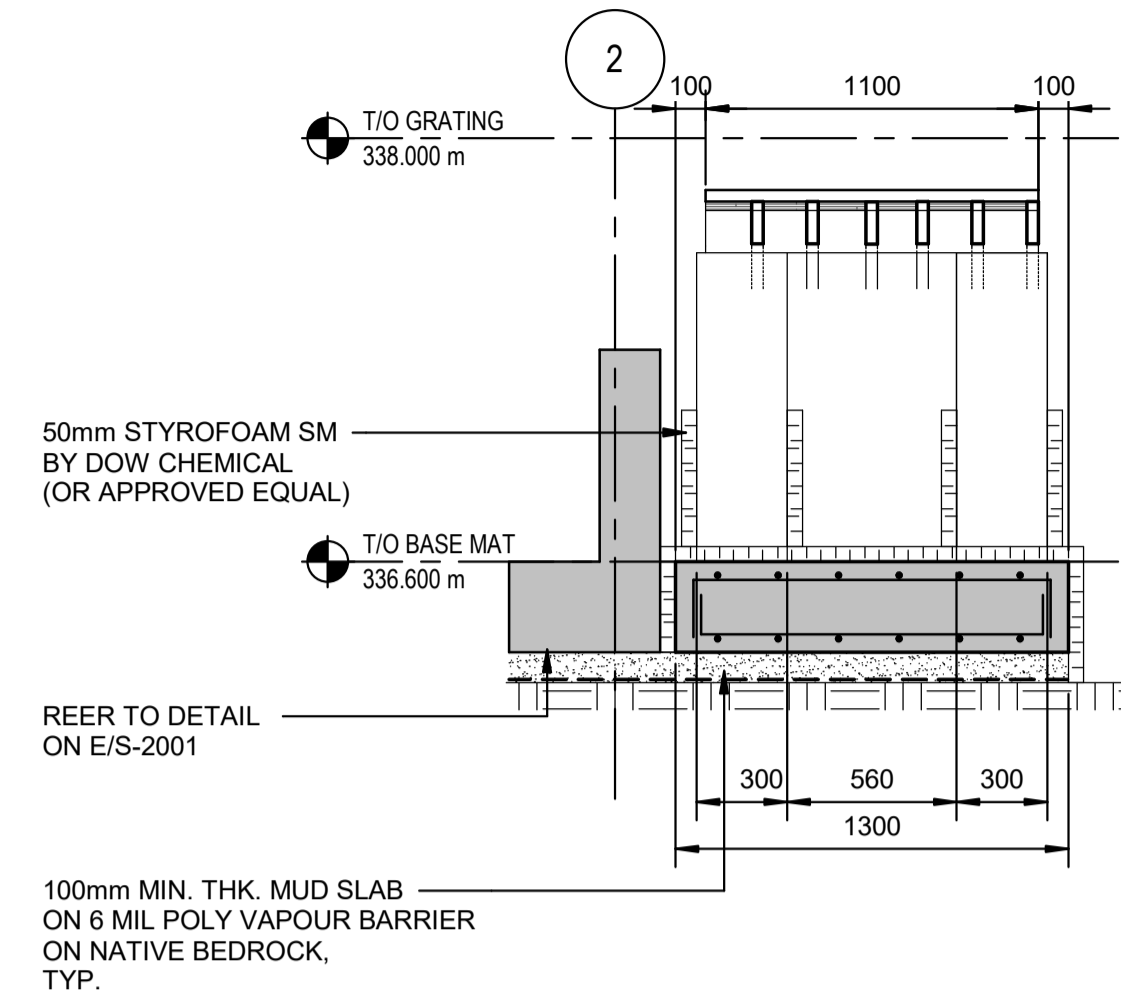
TITLE:  
**WHEEL CHAIR RAMP  
PLAN AND SECTION**

DRAWING NUMBER: **S-1002** REV: **3**

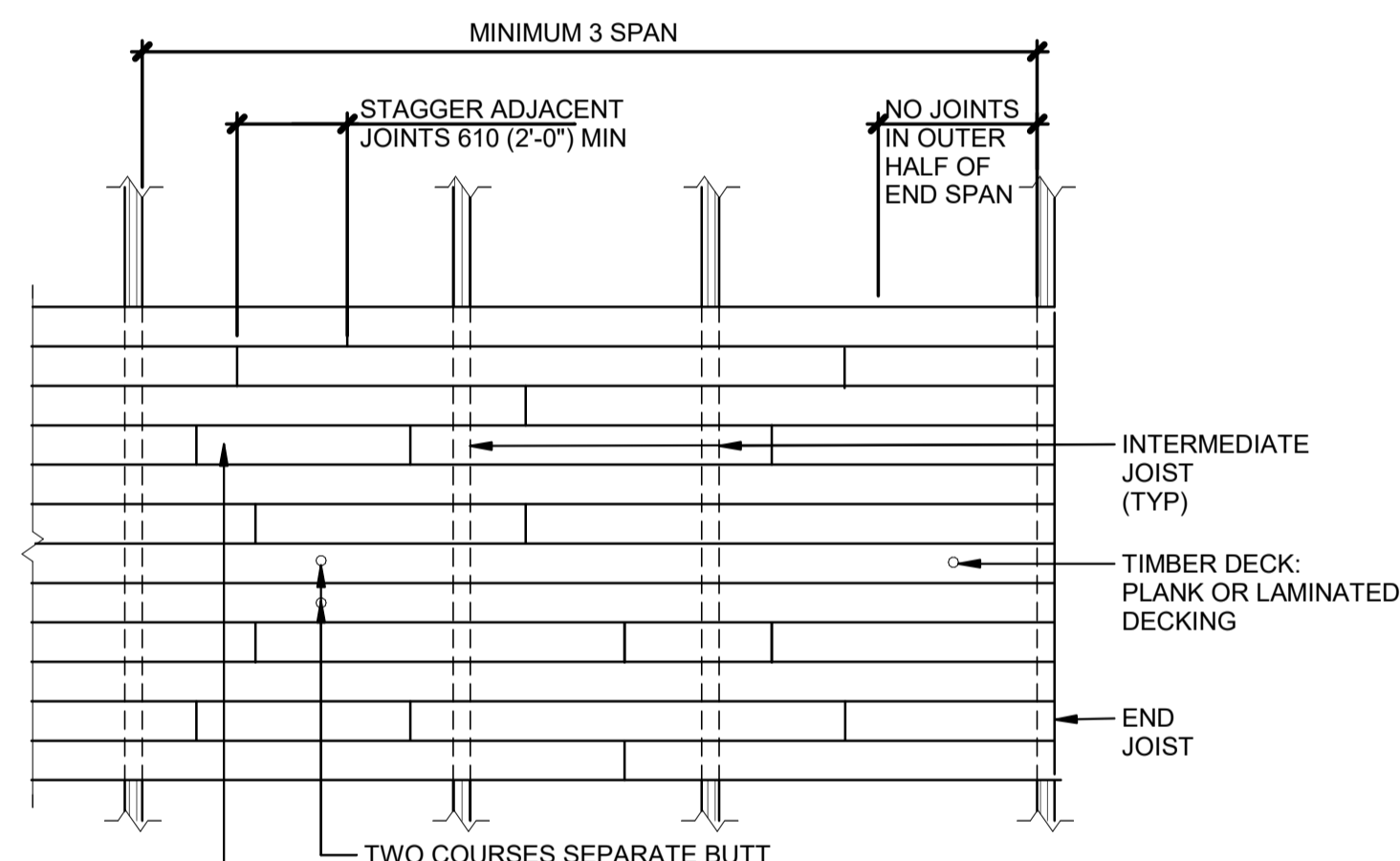




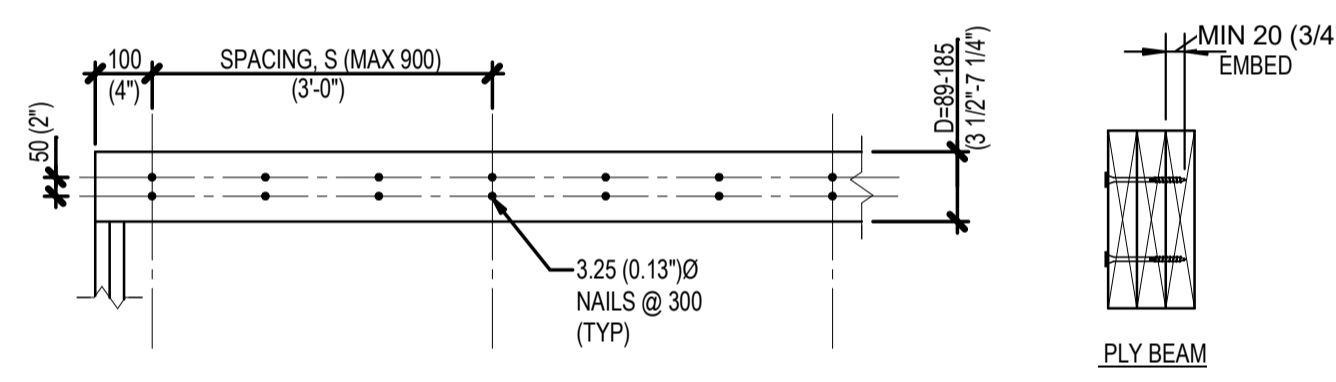
1 STAIRS DETAIL  
NTS



2 SECTION  
S-1002 1 : 25

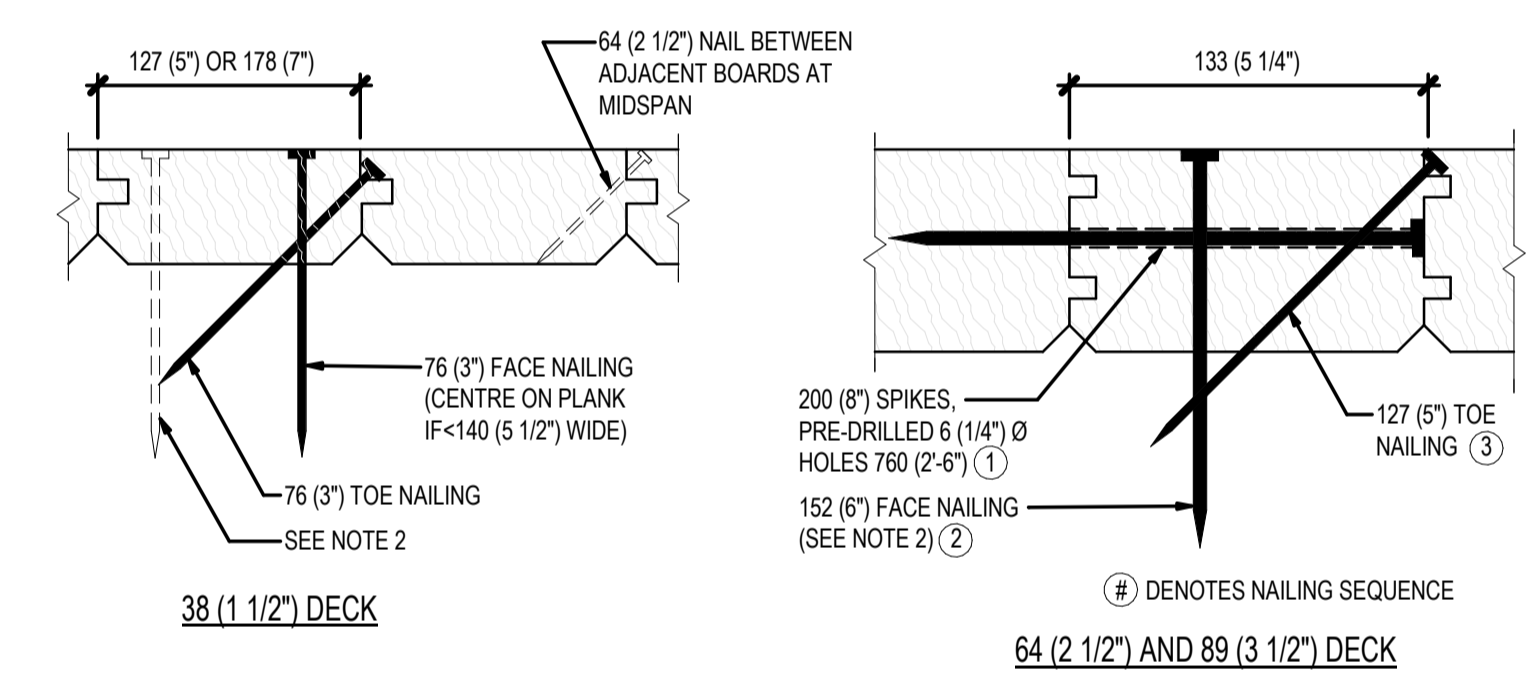


3 LAYOUT PATTERN FOR TIMBER PLANK DECKING  
1 : 100



NOTES:  
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.

4 BUILT-UP BEAM FASTENING  
1 : 100



NOTES:  
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.

5 NAILING PATTERN FOR TIMBER PLANK DECKING  
1 : 100

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

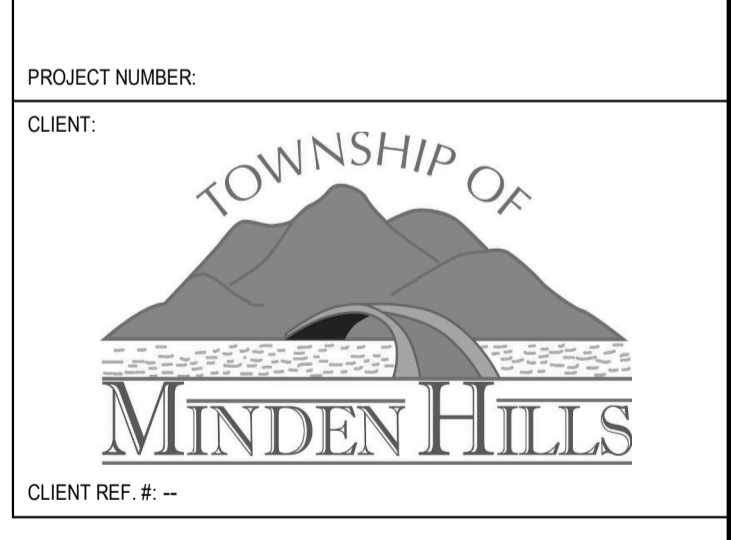


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ORIGINAL SCALE: SEE SCALE BAR DATE: 11/01/24  
APPROVED BY: R.L.  
CHECKED BY: R.L.  
DRAWN BY: A.Z.

IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.  
25mm

DISCIPLINE: STRUCTURAL

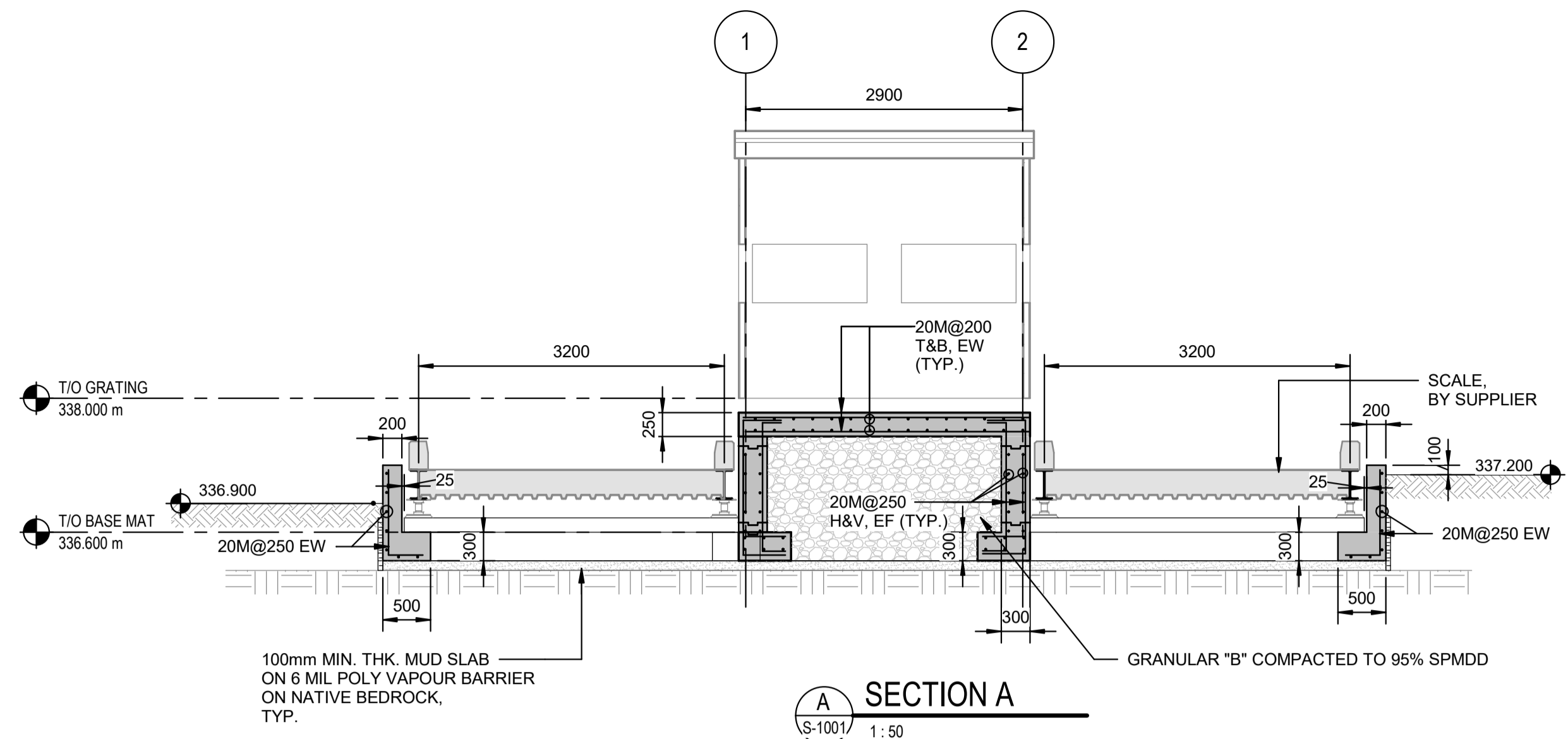


PROJECT: SCOTCH LINE LANDFILL PROPOSED TRANSFER STATION

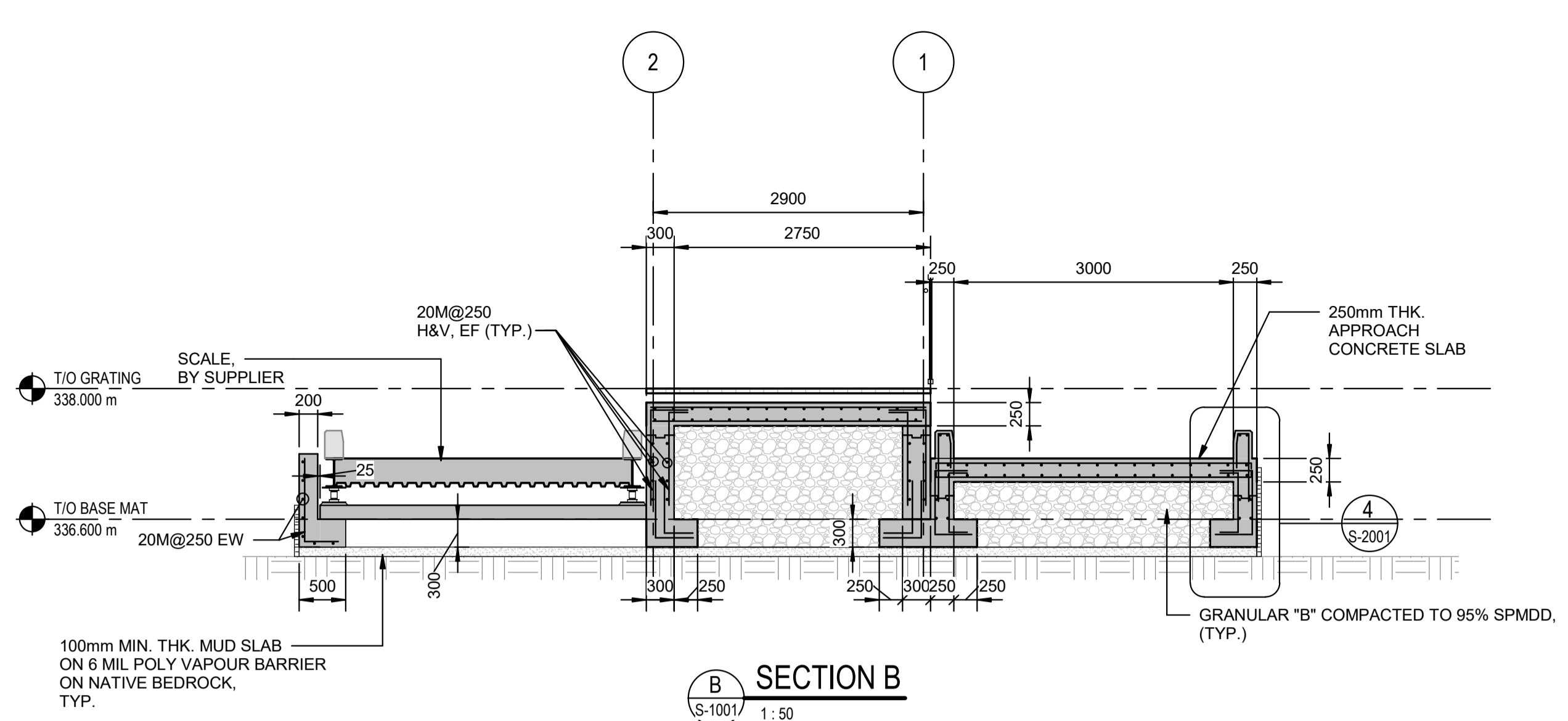
TITLE: WHEEL CHAIR RAMP SECTIONS AND DETAILS

DRAWING NUMBER: S-1003 REV: 3

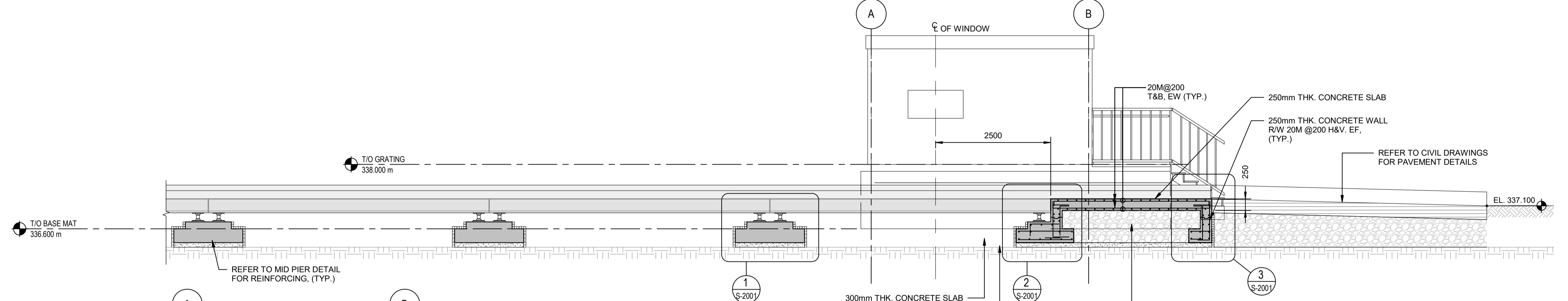




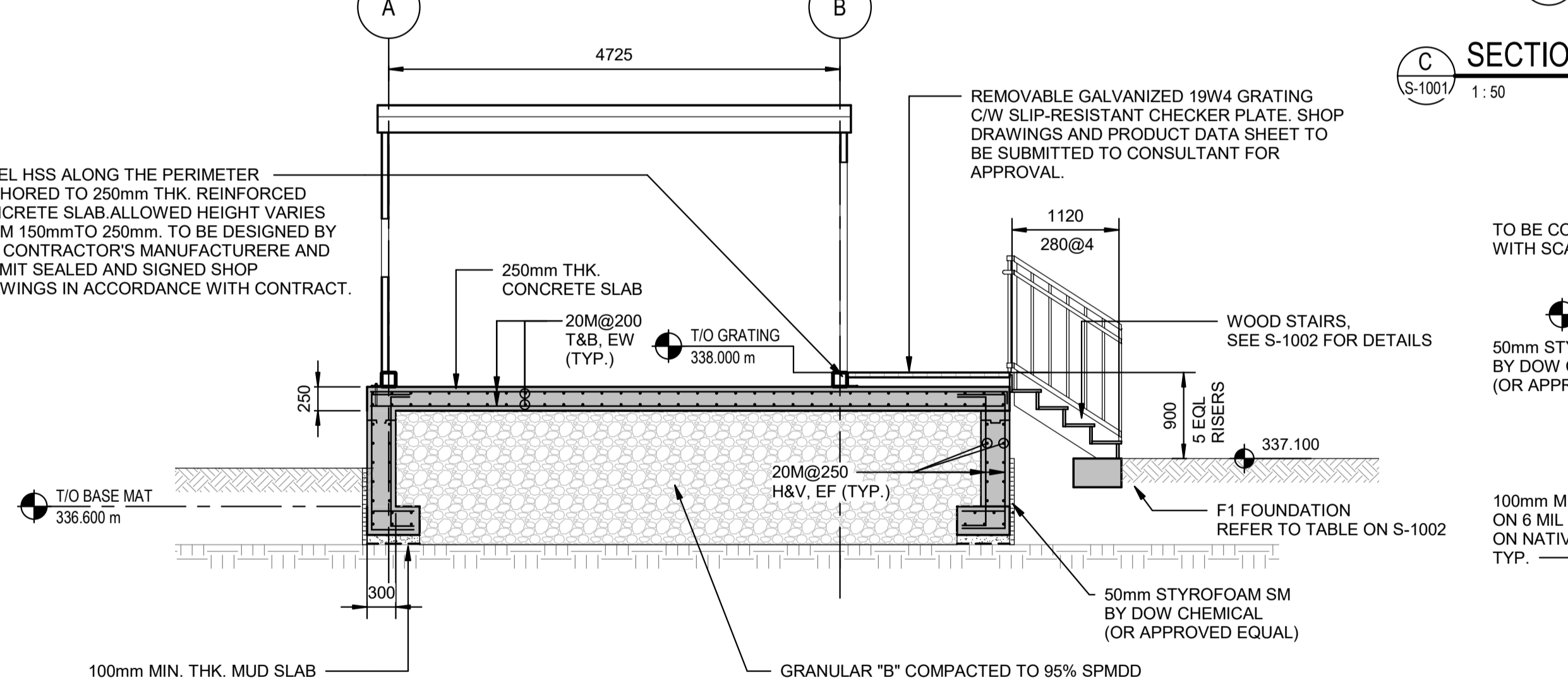
**SECTION A**  
S-1001/ 1:50



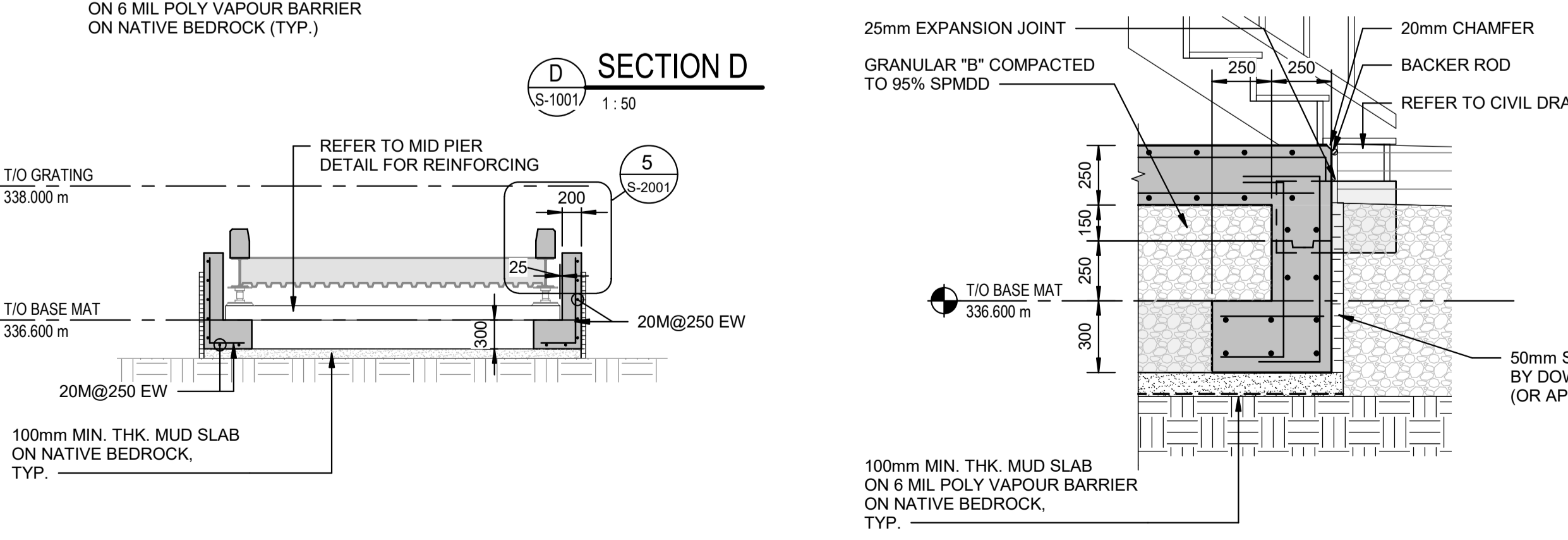
**SECTION B**  
S-1001/ 1:50



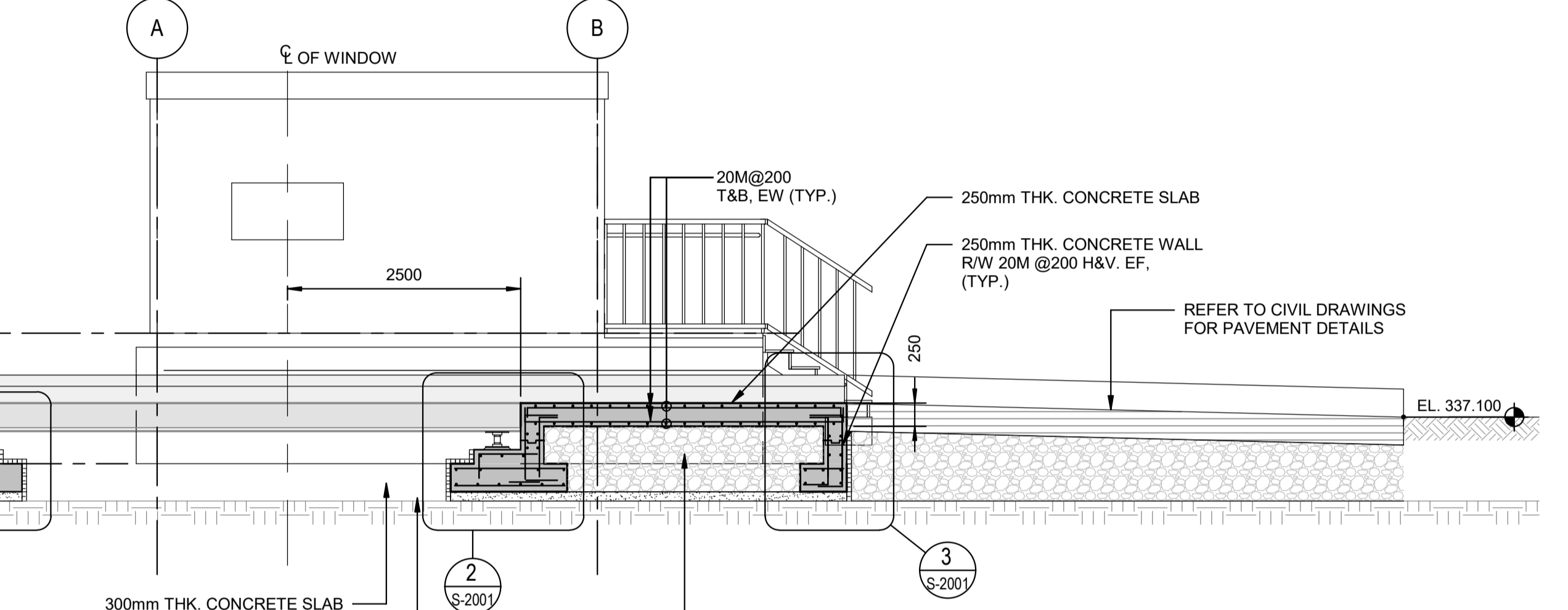
**SECTION C**  
S-1001/ 1:50



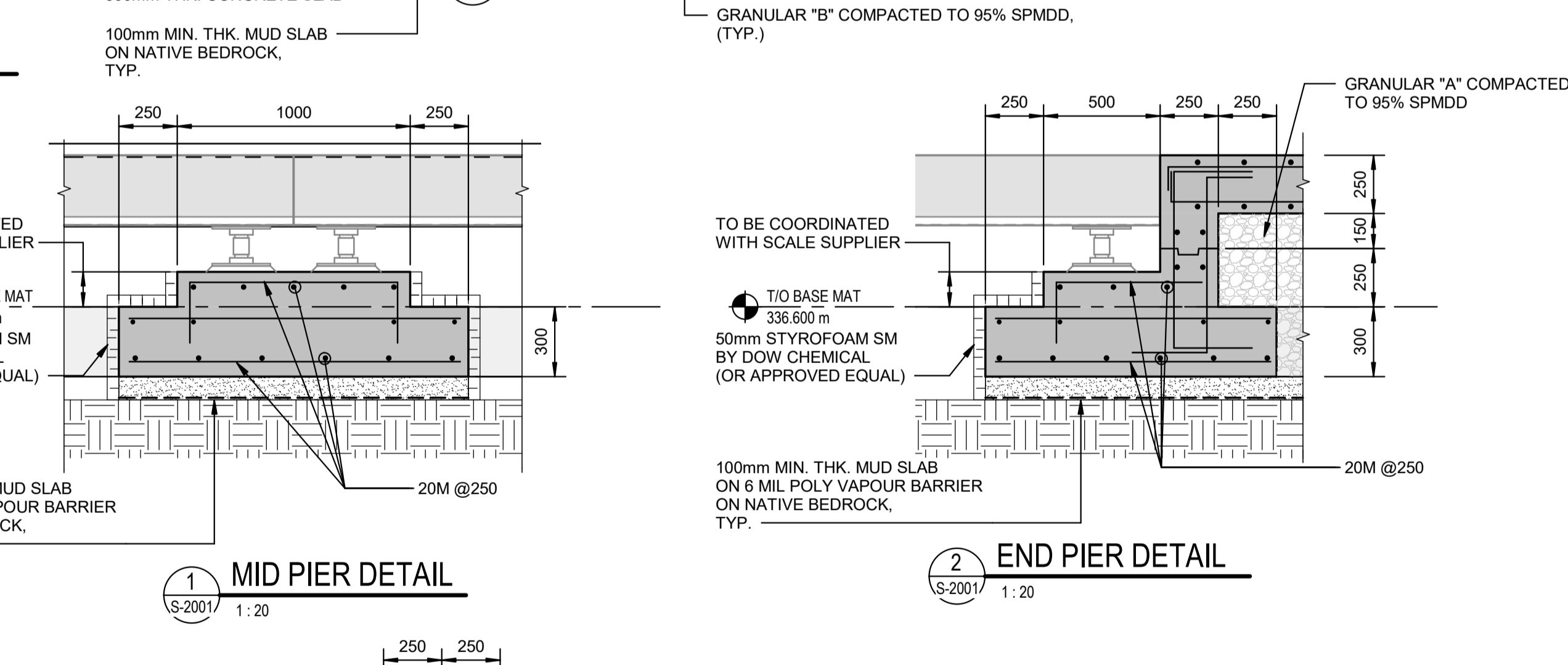
**SECTION D**  
S-1001/ 1:50



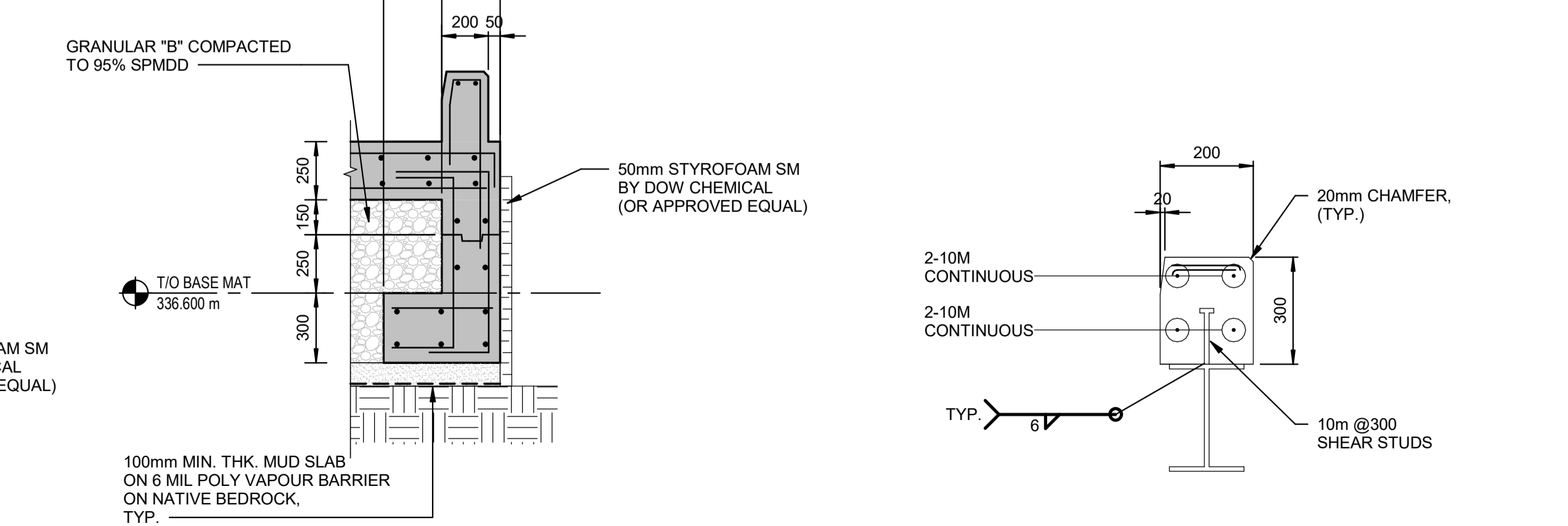
**SECTION E**  
S-1001/ 1:50



**1 MID PIER DETAIL**  
S-2001/ 1:20



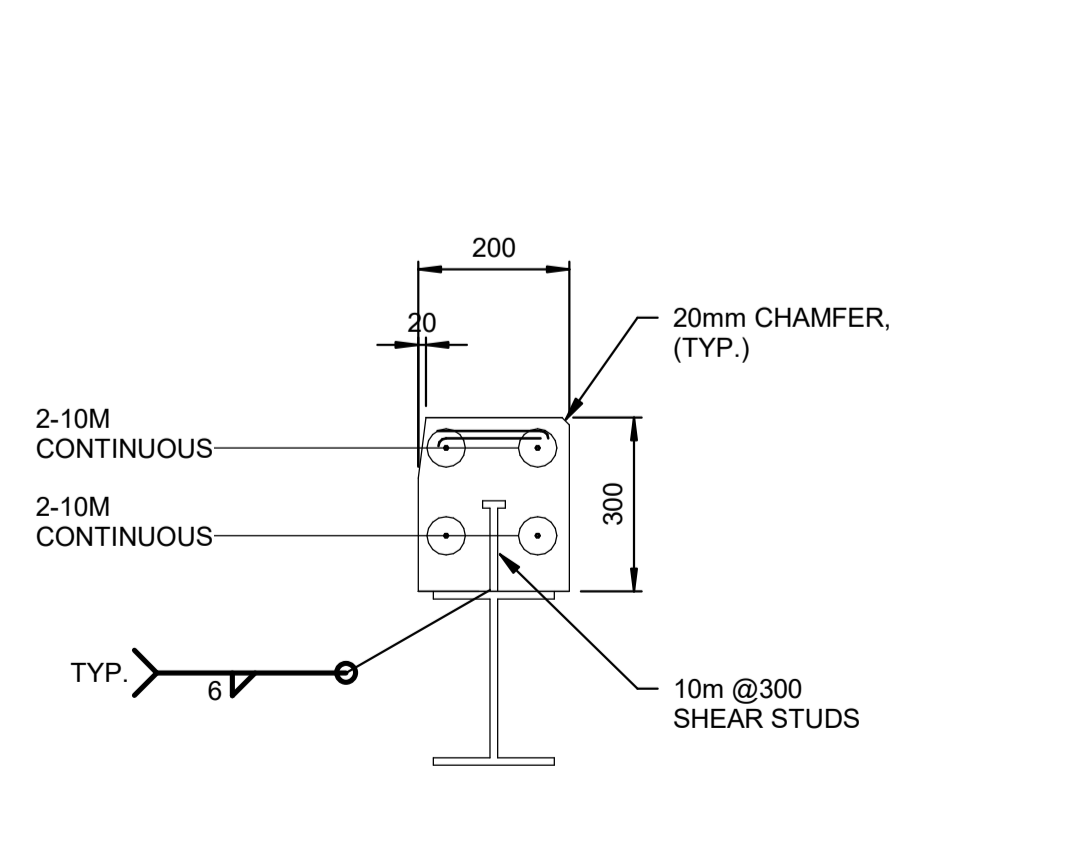
**2 END PIER DETAIL**  
S-2001/ 1:20



**3 EXPANSION JOINT DETAIL**  
S-2001/ 1:20



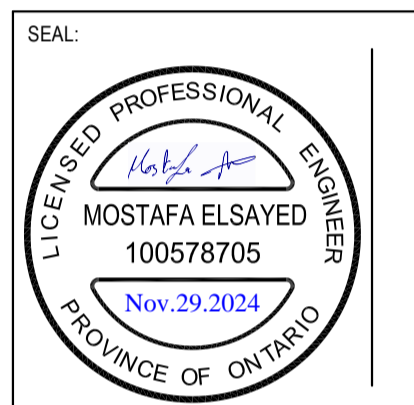
**4 DETAIL**  
S-2001/ 1:20



**5 CONC. CURB DETAIL**  
S-2001/ NTS

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: 03/31/23

APPROVED BY: R.L. IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.

CHECKED BY: R.L. SCALE: 25mm

DRAWN BY: A.Z.

DISCIPLINE:



PROJECT NUMBER:



CLIENT REF. #:

PROJECT: SCOTCH LINE LANDFILL PROPOSED TRANSFER STATION

TITLE: SECTIONS AND DETAILS

DRAWING NUMBER: S-2001 REV: 3

PLOT DATE: 2024-11-29 1:47:07 PM Autodesk Docs://221-10889-00 - Scotch Line LF Transfer Station - R22/221-10889-00\_STR.rvt



STANDARD ABBREVIATIONS

A	AMPERES (CONTINUOUS)	L/S	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
⊕	CENTERLINE	NP	NAMEPLATE
CAW	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 CCT 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
		2S2W	TWO SPEED-TWO WINDING
		XFMR	TRANSFORMER

ELECTRICAL SYMBOLS LIGHTING & POWER LAYOUTS

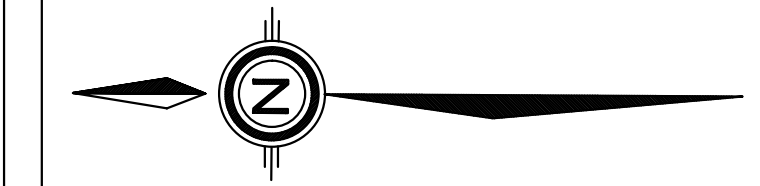
	FIRE ALARM PULL STATION
	HUMIDISTAT
	THERMOSTAT
	ADJUSTABLE SPEED CONTROLLER
	MOTOR CIRCUIT PROTECTOR
	SINGLE PHASE MOTOR STARTER WITH OVERLOAD
	SINGLE PHASE MOTOR STARTER WITH OVERLOAD AND PILOT LIGHT
	SELECTOR SWITCH
	DISCONNECT SWITCH ('X' DENOTES No. OF POLES)
	CONTROL PANEL (OR 'LP'-LOCAL PANEL)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

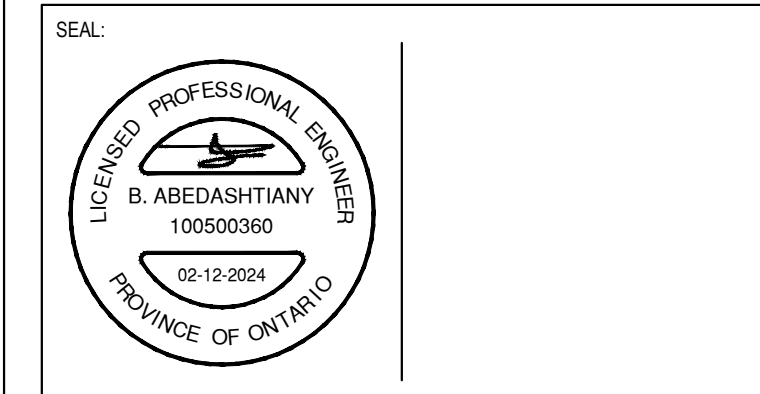
GENERAL NOTES

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



REVISION:

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



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

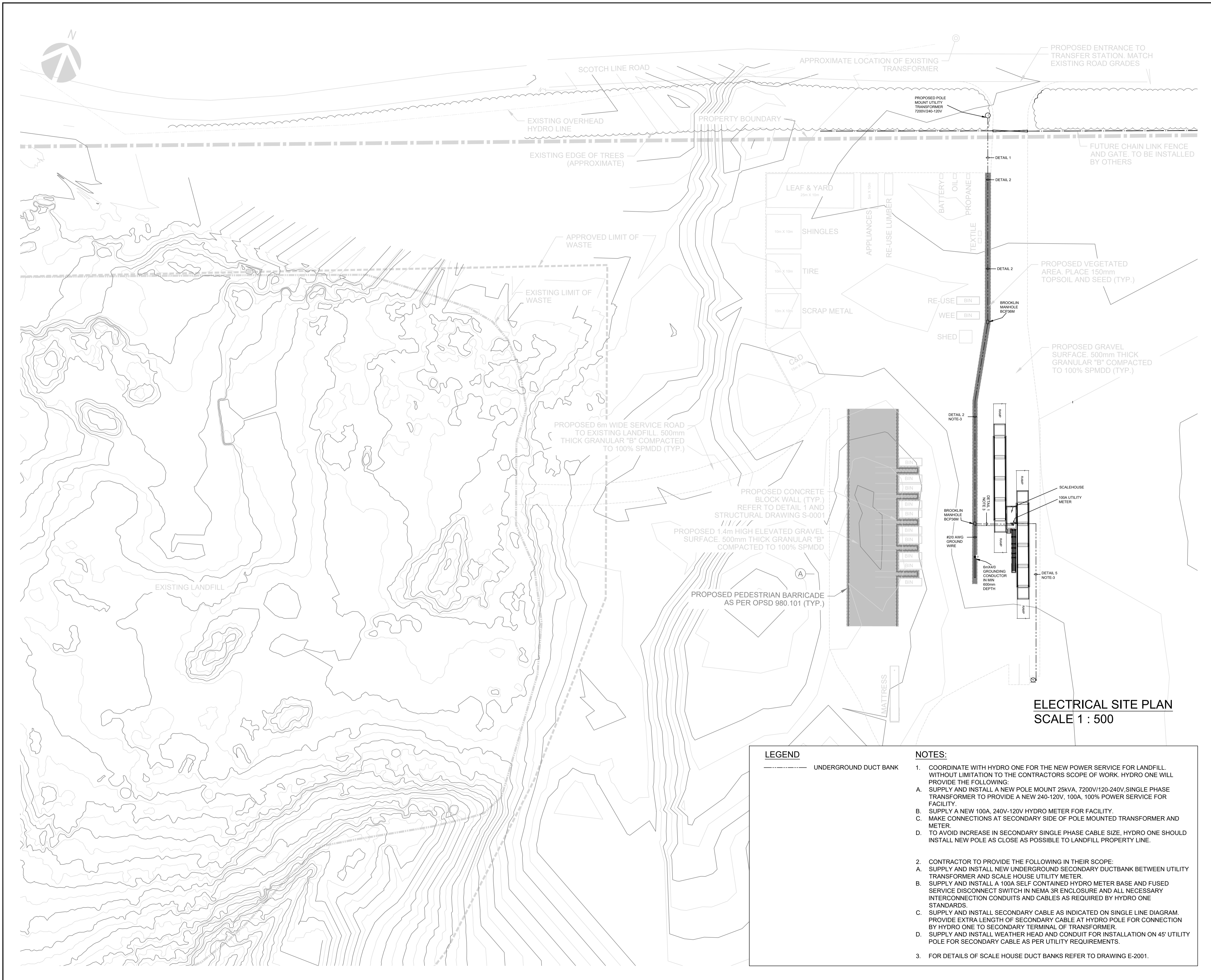
DISCIPLINE: **ELECTRICAL**



PROJECT: **SCOTCH LINE LANDFILL PROPOSED TRANSFER STATION**

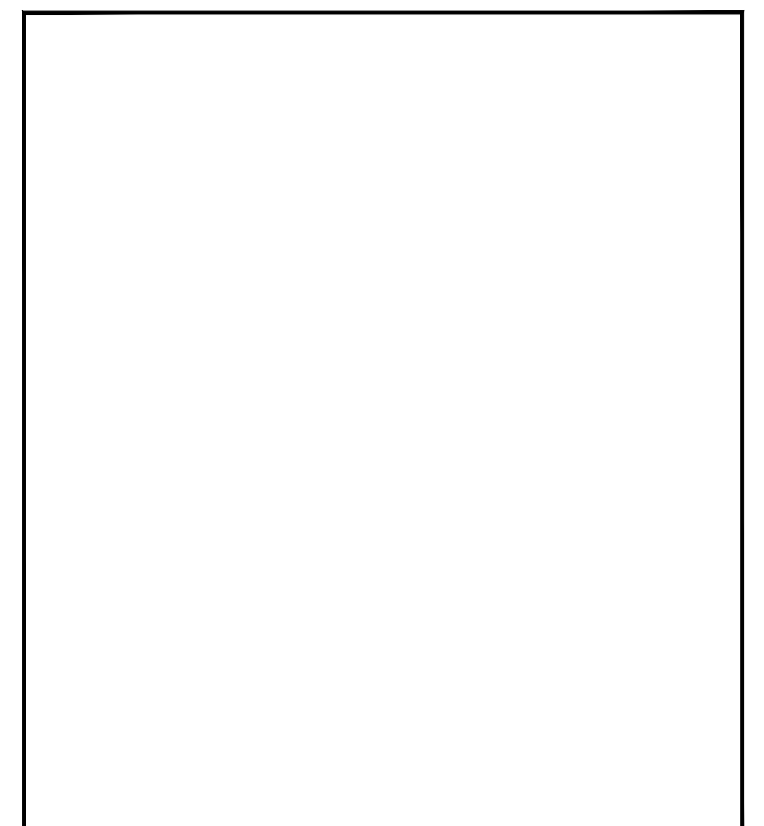
TITLE: **LEGEND AND ABBREVIATIONS**





**ELECTRICAL SITE PLAN**  
SCALE 1 : 500

- LEGEND**
- UNDERGROUND DUCT BANK
- NOTES:**
1. COORDINATE WITH HYDRO ONE FOR THE NEW POWER SERVICE FOR LANDFILL. WITHOUT LIMITATION TO THE CONTRACTORS SCOPE OF WORK, HYDRO ONE WILL PROVIDE THE FOLLOWING:
    - A. SUPPLY AND INSTALL A NEW POLE MOUNT 25kVA, 7200V/120-240V, SINGLE PHASE TRANSFORMER TO PROVIDE A NEW 240-120V, 100A, 100% POWER SERVICE FOR FACILITY.
    - B. SUPPLY A NEW 100A, 240V-120V HYDRO METER FOR FACILITY.
    - C. MAKE CONNECTIONS AT SECONDARY SIDE OF POLE MOUNTED TRANSFORMER AND METER.
    - D. TO AVOID INCREASE IN SECONDARY SINGLE PHASE CABLE SIZE, HYDRO ONE SHOULD INSTALL NEW POLE AS CLOSE AS POSSIBLE TO LANDFILL PROPERTY LINE.
  2. CONTRACTOR TO PROVIDE THE FOLLOWING IN THEIR SCOPE:
    - A. SUPPLY AND INSTALL NEW UNDERGROUND SECONDARY DUCTBANK BETWEEN UTILITY TRANSFORMER AND SCALE HOUSE UTILITY METER.
    - B. SUPPLY AND INSTALL A 100A SELF CONTAINED HYDRO METER BASE AND FUSED SERVICE DISCONNECT SWITCH IN NEMA 3R ENCLOSURE AND ALL NECESSARY INTERCONNECTION CONDUITS AND CABLES AS REQUIRED BY HYDRO ONE STANDARDS.
    - C. SUPPLY AND INSTALL SECONDARY CABLE AS INDICATED ON SINGLE LINE DIAGRAM. PROVIDE EXTRA LENGTH OF SECONDARY CABLE AT HYDRO POLE FOR CONNECTION BY HYDRO ONE TO SECONDARY TERMINAL OF TRANSFORMER.
    - D. SUPPLY AND INSTALL WEATHER HEAD AND CONDUIT FOR INSTALLATION ON 45° UTILITY POLE FOR SECONDARY CABLE AS PER UTILITY REQUIREMENTS.
  3. FOR DETAILS OF SCALE HOUSE DUCT BANKS REFER TO DRAWING E-2001.



REVISION:

REV	DATE	DESCRIPTION	BY
1	13/12/2024	ISSUED FOR TENDER	B.A.



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ORIGINAL SCALE: SEE SCALE BAR DATE: 13/12/2024  
 APPROVED BY: K.L.  
 CHECKED BY: B.A.  
 DRAWN BY: A.Z.

IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.

25mm

DISCIPLINE: ELECTRICAL

**wsp**

100 COMMERCE VALLEY DR. W.  
THORNHILL, ONTARIO CANADA L3T0A1  
TEL: 1-905-882-4211 FAX: 1-905-822-0055 WWW.WSPGROUP.CA

PROJECT NUMBER: 221-10889-00

CLIENT:

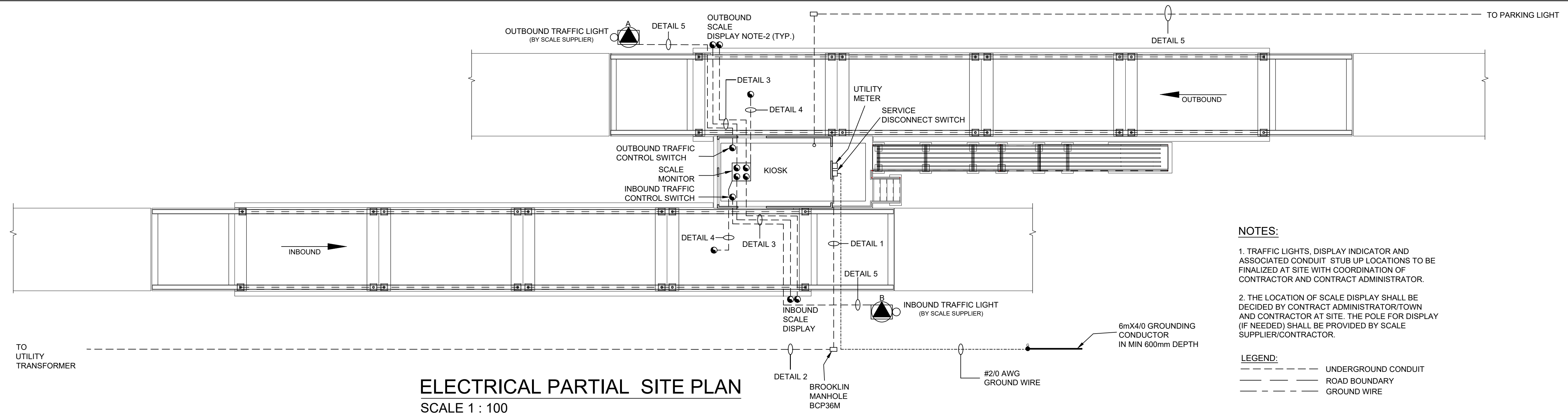


PROJECT:  
**SCOTCH LINE LANDFILL  
PROPOSED TRANSFER  
STATION**

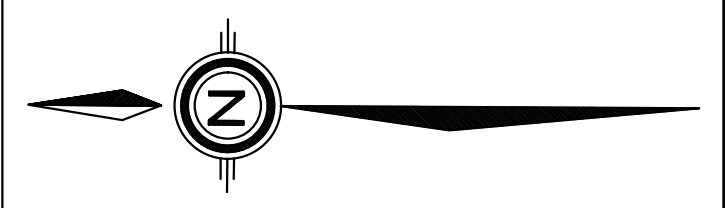
TITLE:  
**ELECTRICAL SITE  
PLAN**

DRAWING NUMBER: E-1001 REV. 1



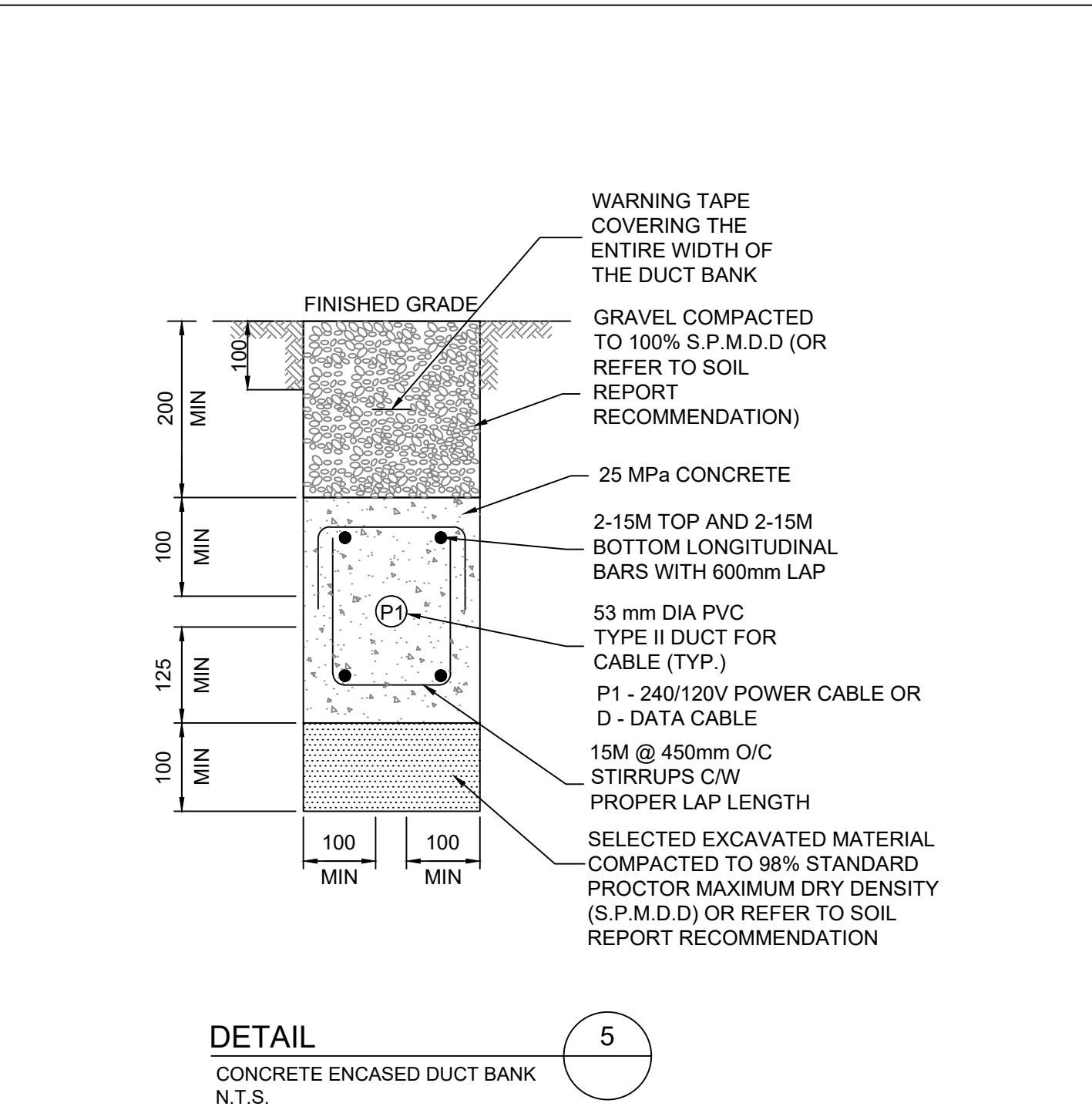
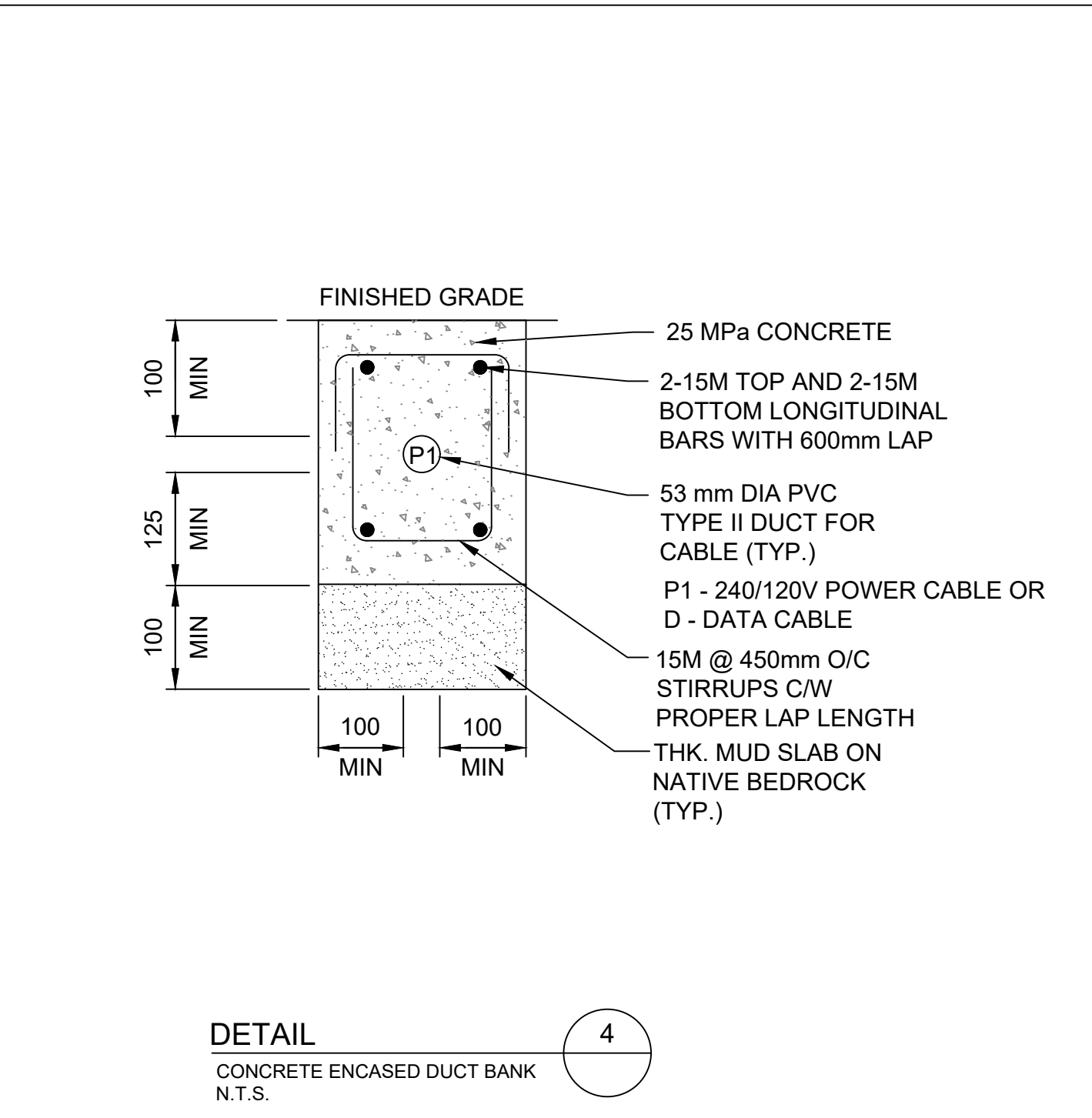
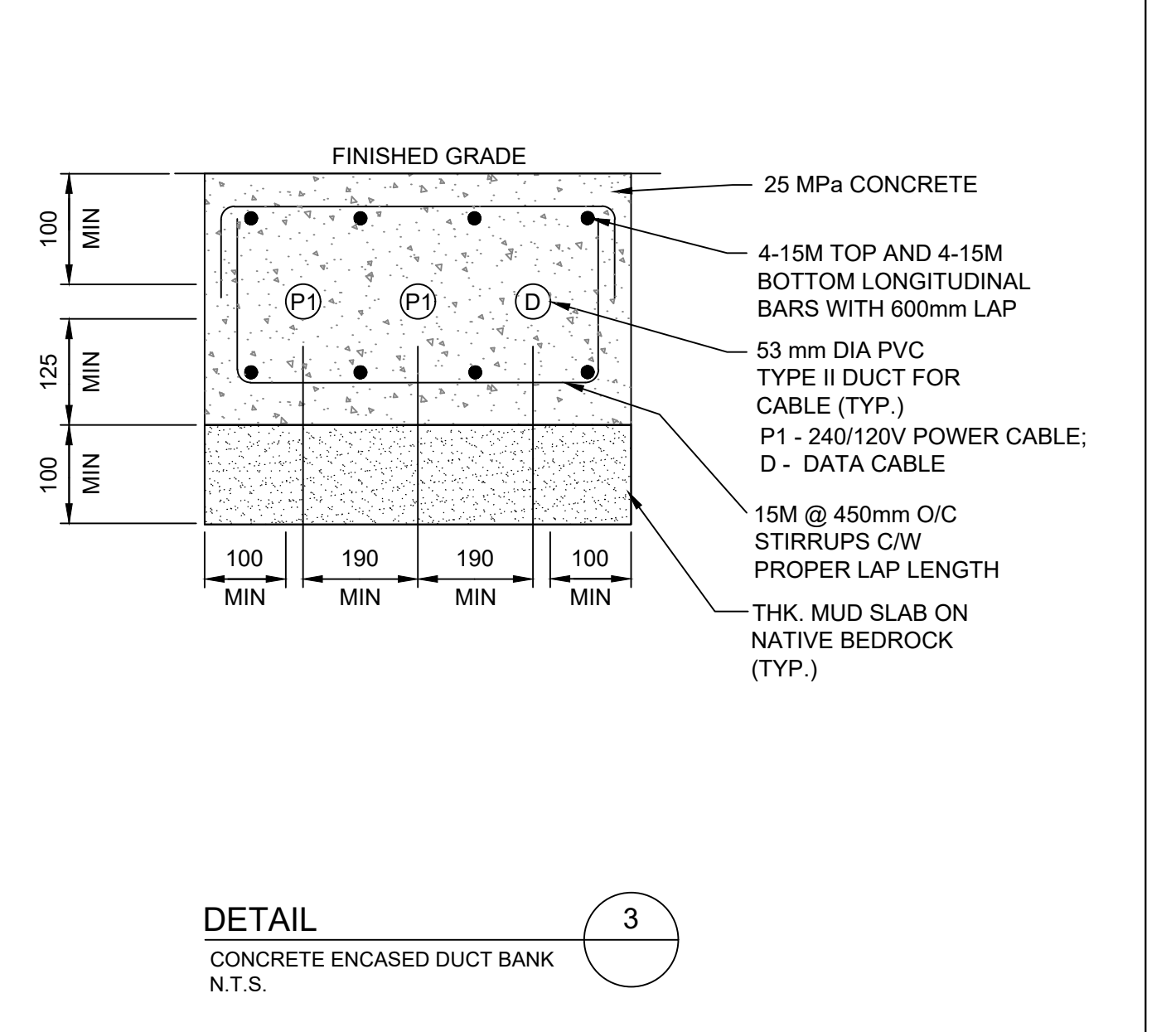
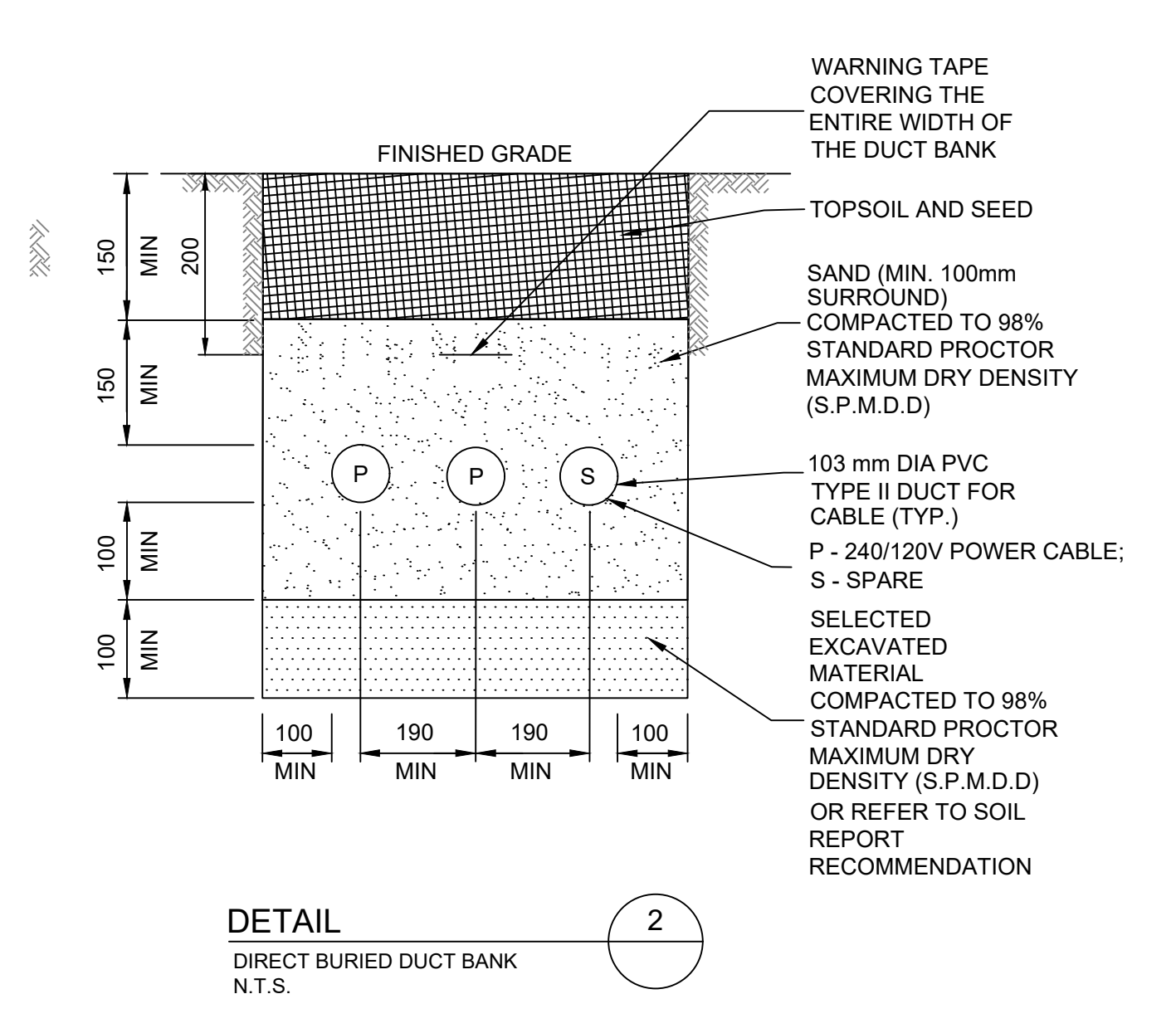
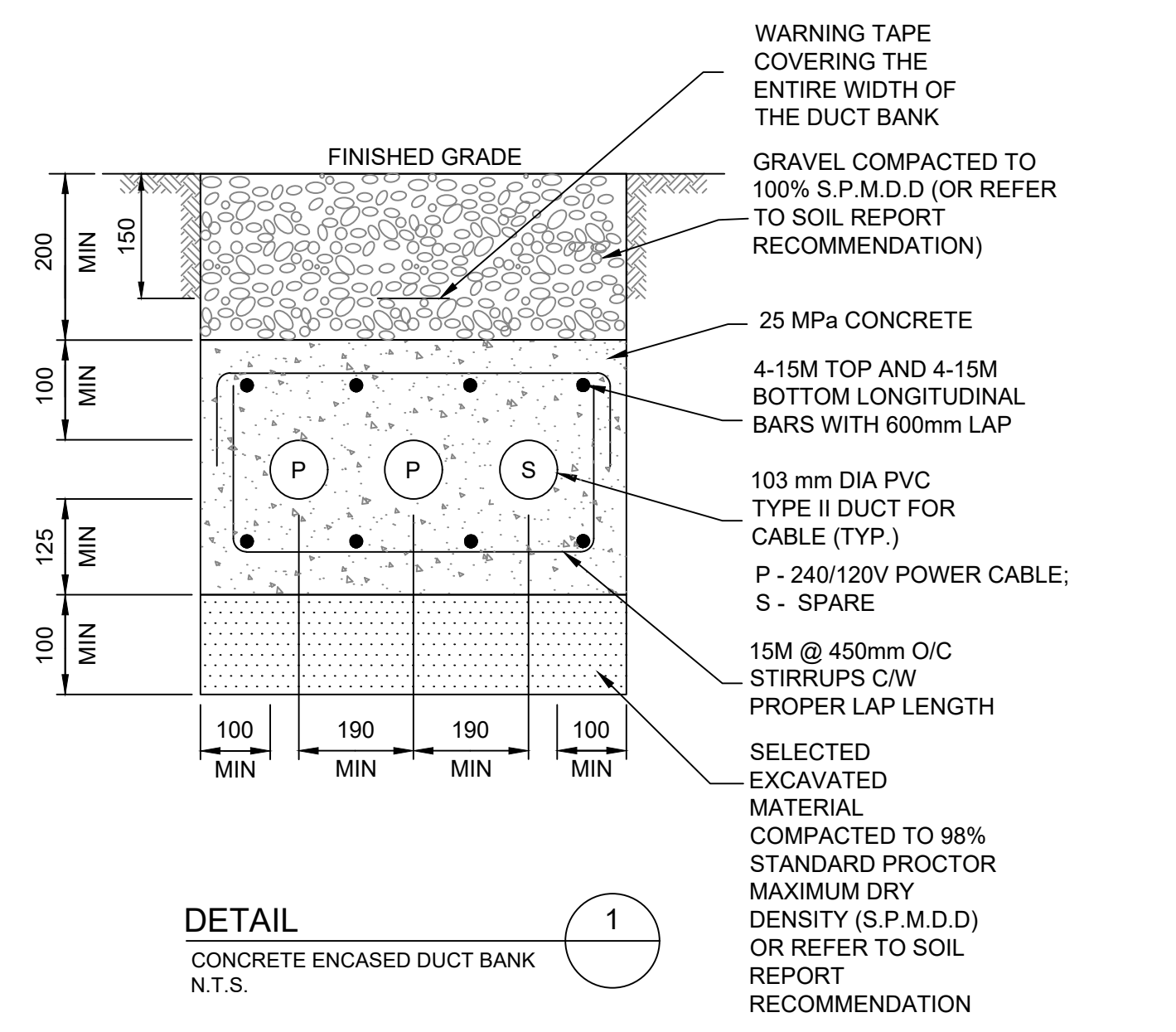


**ELECTRICAL PARTIAL SITE PLAN**  
SCALE 1 : 100



REVISION:

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



SEAL:

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ORIGINAL SCALE: SEE SCALE BAR DATE: 02/12/2024

APPROVED BY: K.L.

CHECKED BY: B.A.

DRAWN BY: A.Z.

IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.

25mm

DISCIPLINE: ELECTRICAL

**wsp**

100 COMMERCE VALLEY DR. W.  
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TEL: 1-905-882-4211 FAX: 1-905-820-0999 WWW.WSPGROUP.CA

PROJECT NUMBER: 221-10889-00

CLIENT: **TOWNSHIP OF MINDEN HILLS**

CLIENT REF. #: --

PROJECT: **SCOTCH LINE LANDFILL PROPOSED TRANSFER STATION**

TITLE: **PARTIAL SITE PLAN AND DUCT BANK DETAILS**

DRAWING NUMBER: **E-2001** REV: **1**



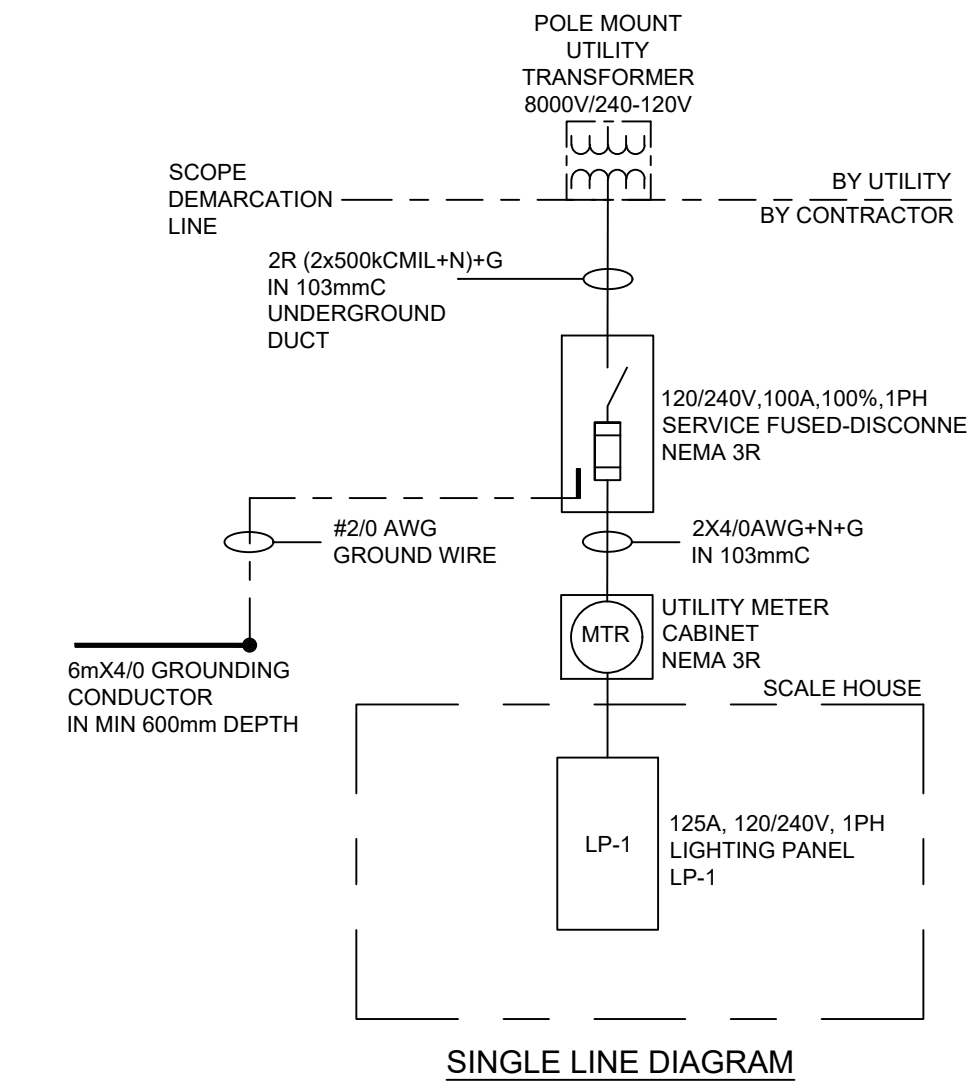
LUMINAIRE SCHEDULE								
SYMBOL	TYPE	VOLTS	INPUT WATTS	DESCRIPTION	LAMPS TYPE	BALLAST	MANUFACTURERS CATALOG NUMBER	MOUNTING
L01	LED	120	37	1220mm (4') LED LIGHT FIXTURE, COLD ROLLED STEEL WITH EXTRUDED ALUMINUM HOUSING, POLYESTER POWDER COAT PAINTED FINISHING, PRECISION FORMED STEEL, HIGH REFLECTANCE MATTE WHITE POWDER COAT REFLECTOR.	37W LED 5000K	LED DRIVER HIGH EFFICIENCY	1. MARK ARCHITECTURAL LIGHTING, FCLED 4FT FLR 80CRI 50K 900LMF 2. APPROVED EQUAL	RECESSED CEILING
L02	LED	120	46	OUTDOOR WALL MOUNTED LED LIGHTING FIXTURE, CAST-ALUMINUM HOUSING, PRISMATIC POLYCARBONATE SHIELD, SEALED AND CASKETER REFLECTOR, BLACK, SUITABLE FOR BUILDING EXTERIOR APPLICATION	46W LED 5000K	LED DRIVER HIGH EFFICIENCY	1. EATON LUMARK WP Wpl-Pak LED 2. HOLOPHANE WL2K SERIES 3. HUBBEL, WGH SERIES 4. APPROVED EQUAL	WALL
L03	LED	120	21	FIXTURE: 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 PHOTOCCELL. 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 MOUNT
L04	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. EMERGH-LITE, ENC SERIES 2. STANPRO, SLBFSERIES 3. AMULITE, 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 A	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	1600	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		20				SPACE
SPACE			21		22				SPACE
SPACE			23		24				SPACE
TOTAL							15532 W		

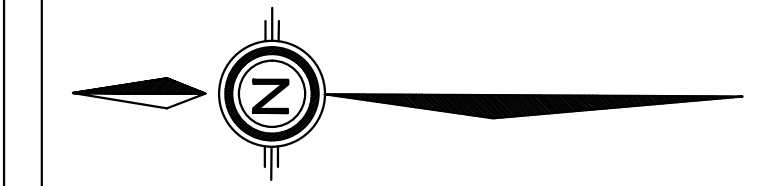
LIGHTING PANEL LP-1  
N.T.S.

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.



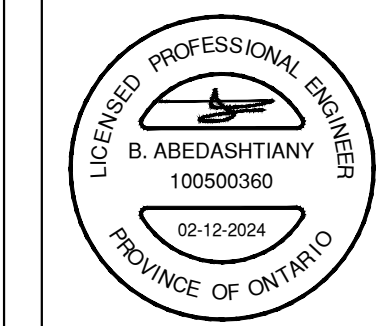
SINGLE LINE DIAGRAM



REVISION:

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

SEAL:



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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: 1-905-462-4211 FAX: 1-905-462-0000 WWW.WSPGROUP.PA

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:

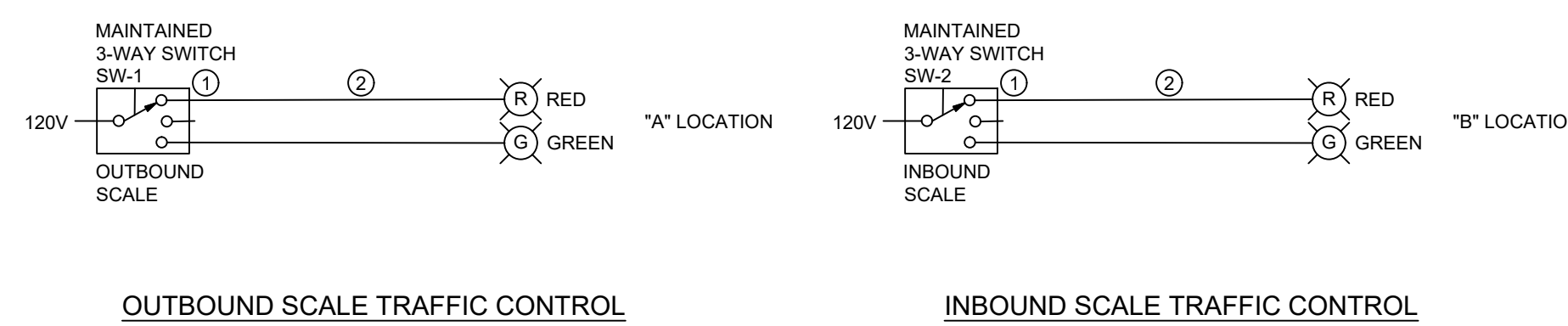
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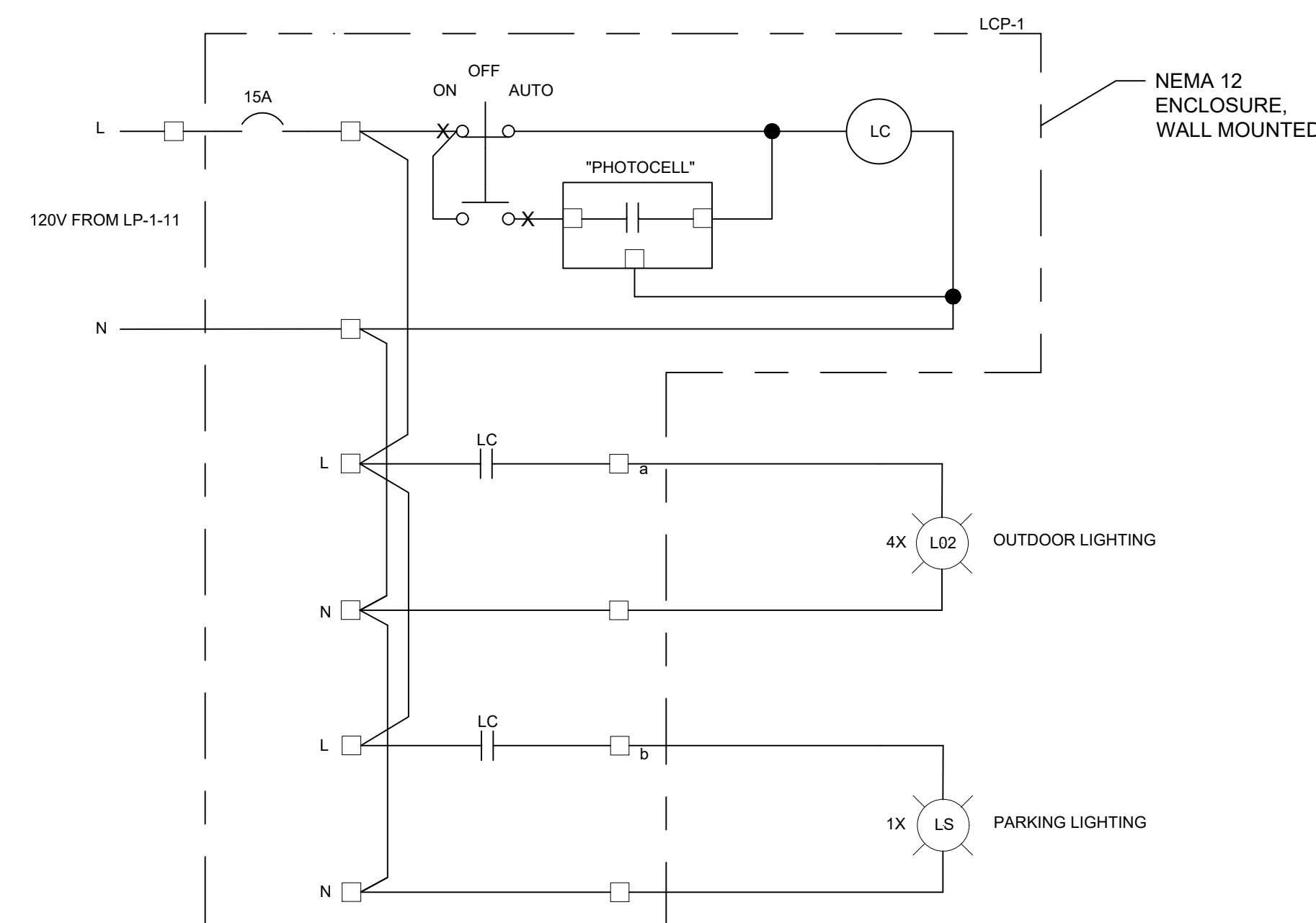
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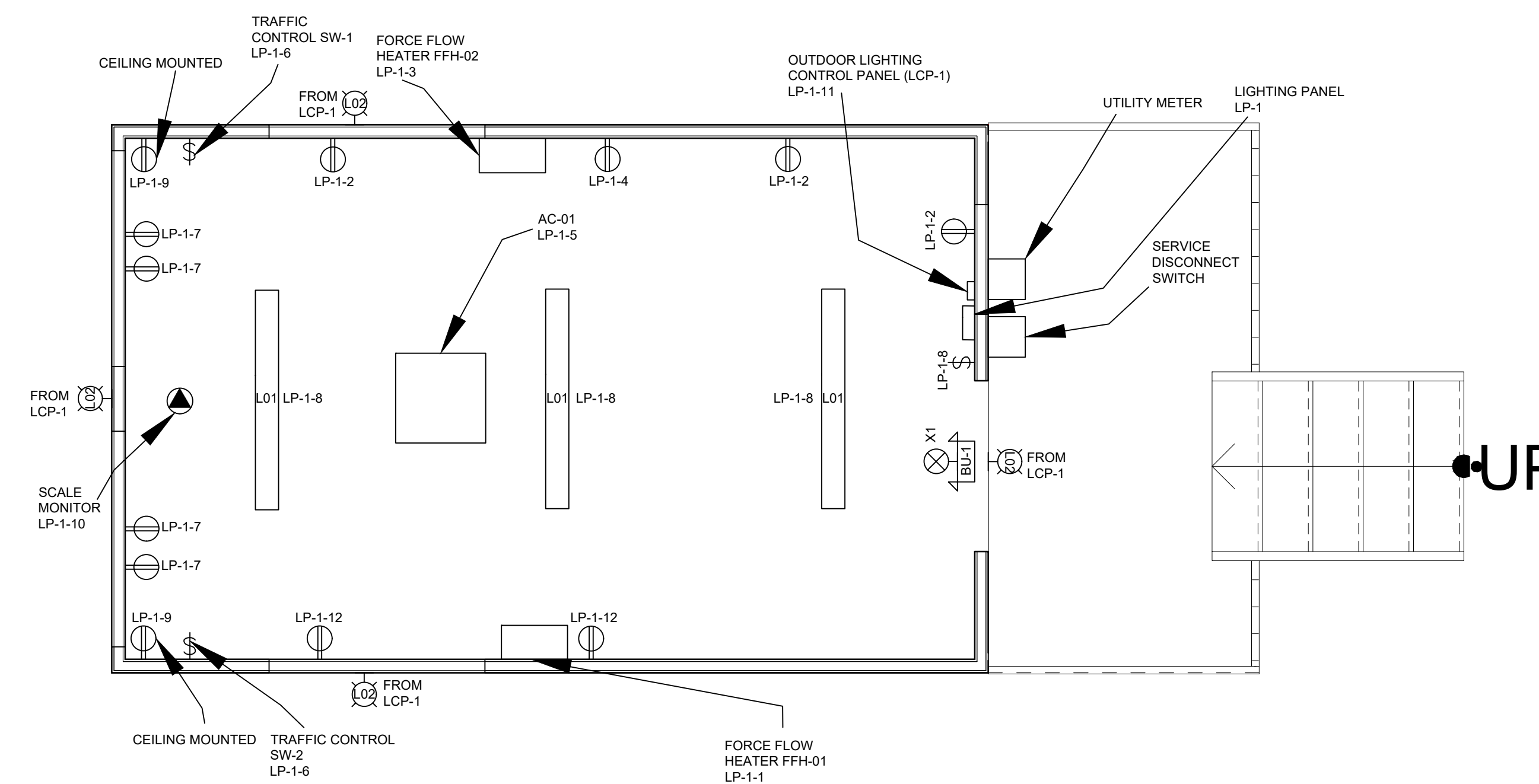
- PROVIDE A 120V MAINTAINED 3 WAY SWITCH (LEVER) EQUAL TO EATON CUTLER HAMMER CATALOGUE #E22VBG10. SWITCH SHALL BE INSTALLED IN SUITABLE NEMA 3R ENCLOSURE IN SCALE HOUSE AS SHOWN ON DRAWING. CO-ORDINATE WITH THE CONTRACT ADMINISTRATOR AND CLIENT FOR LOCATION AND MOUNTING HEIGHT.
- PROVIDE WIRING AND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



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

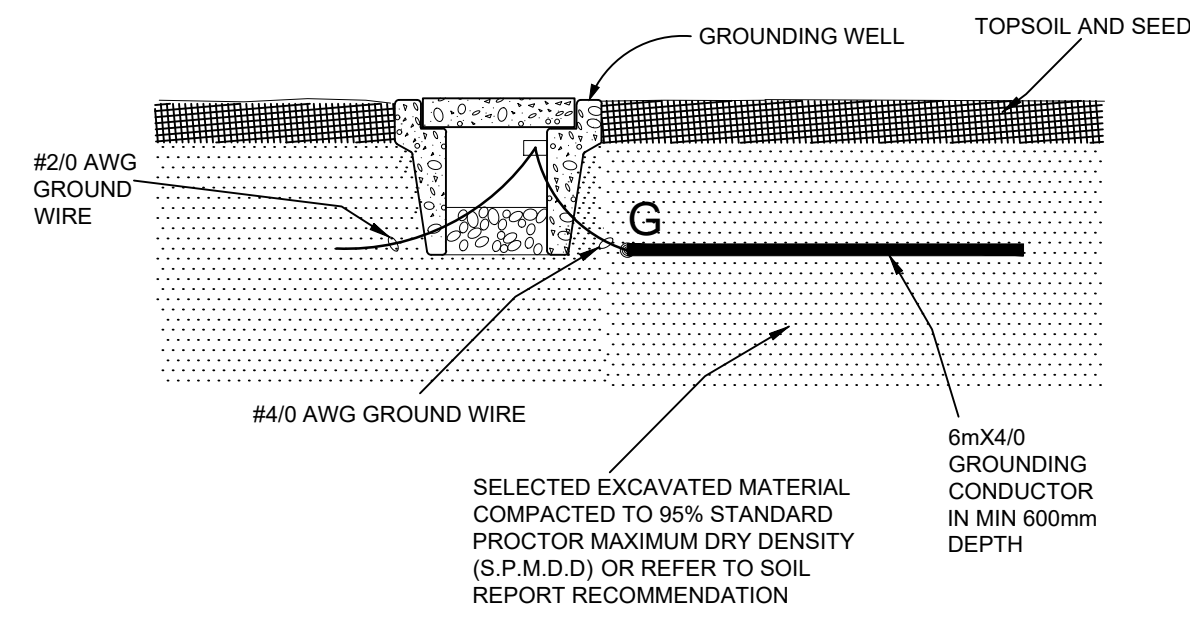


OUTDOOR & PARKING LIGHTING CONTROL PANEL WIRING DIAGRAM  
LCP-1

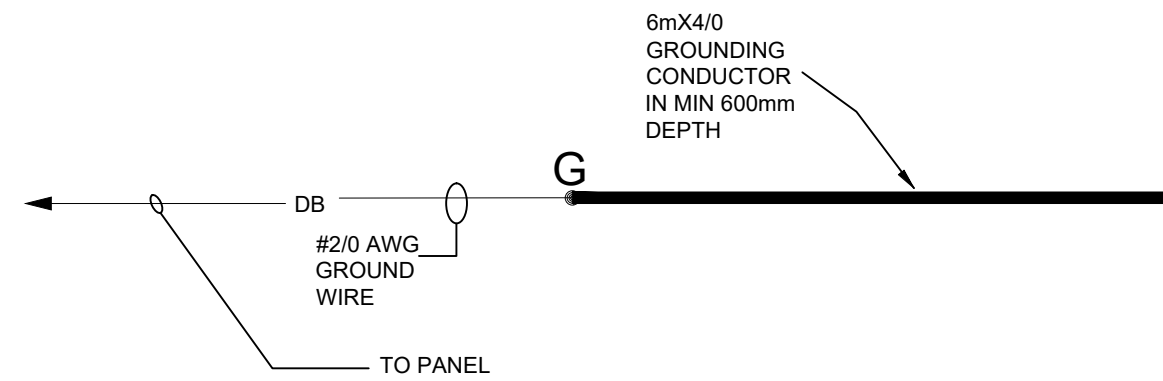


POWER & LIGHTING LAYOUT  
SCALE 1:25

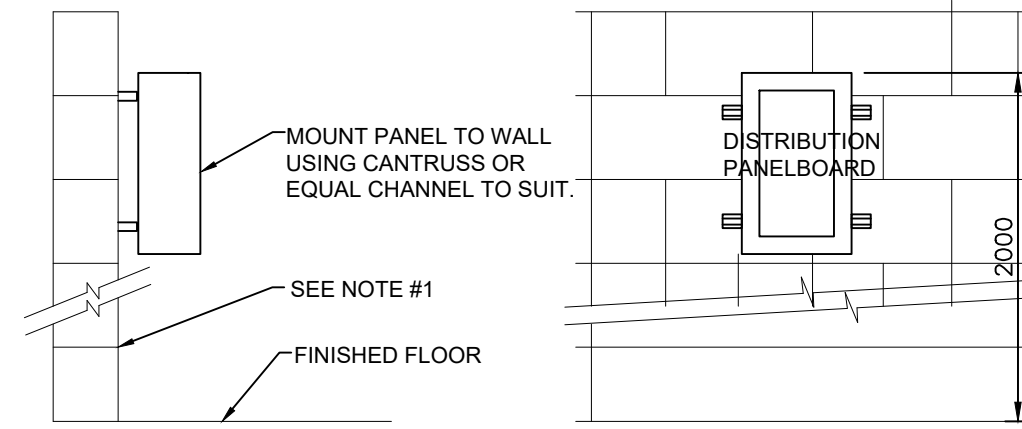




**GROUND TEST WELL** ①  
N.T.S.

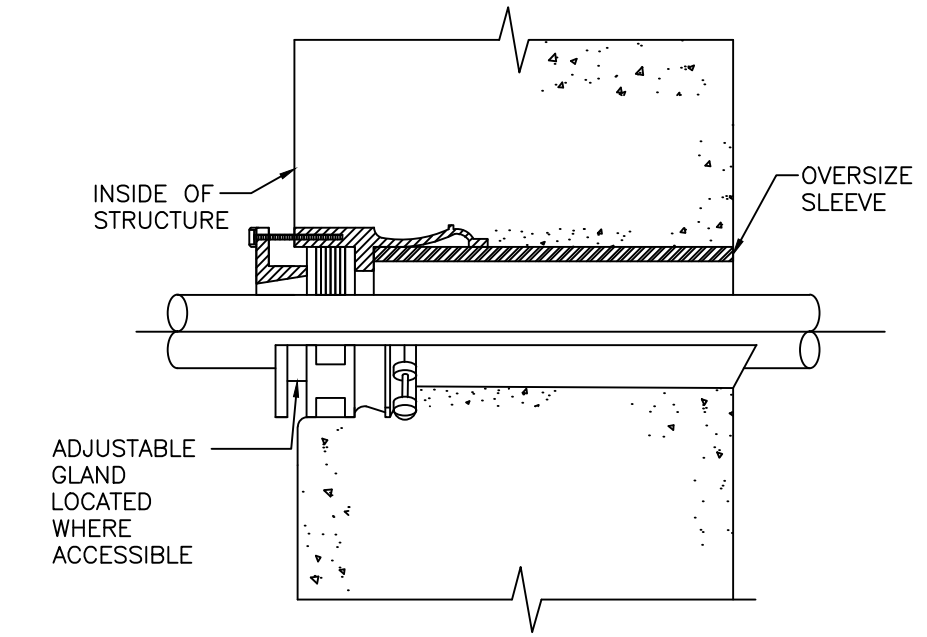


**GROUND GRID** ②  
N.T.S.



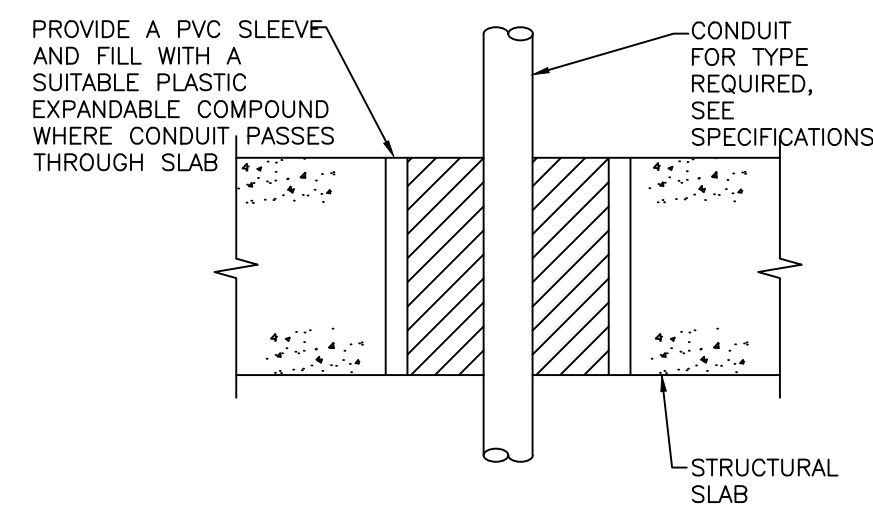
**NOTES:**  
1. WALL MUST BE MASONRY TYPE. FOR DRYWALL PARTITIONS PROVIDE ADDITIONAL SUPPORT FRAME INDEPENDENT OF WALL.

**WALL MOUNTED PANELBOARD** ③  
N.T.S.



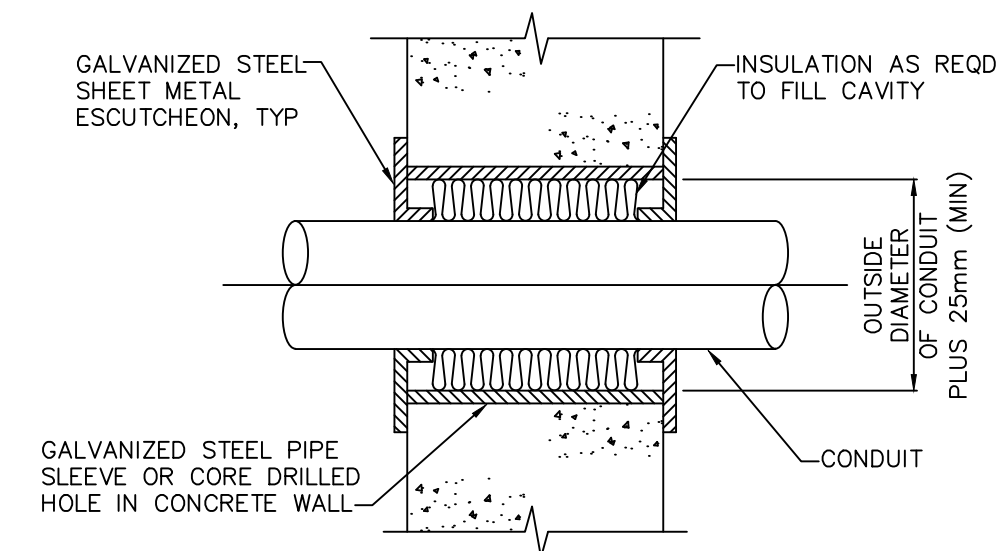
**NOTES:**  
1. USE WATER TIGHT CONDUIT SEAL WHERE CONDUIT PENETRATIONS OF BUILDING EXTERIOR WALLS ARE BELOW GRADE.

**WATERTIGHT CONDUIT SEAL** ④  
N.T.S.



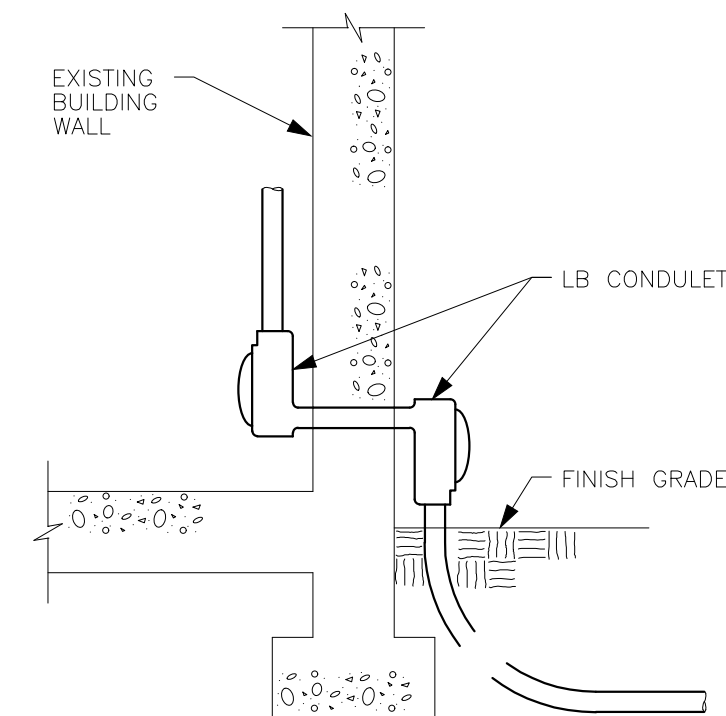
**NOTE:**  
1. ALL CONDUITS THROUGH CONCRETE FLOOR SLABS AND EQUIPMENT PADS SHALL BE INSTALLED IN ACCORDANCE WITH THIS DETAIL.

**SLAB PENETRATION** ⑤  
N.T.S.



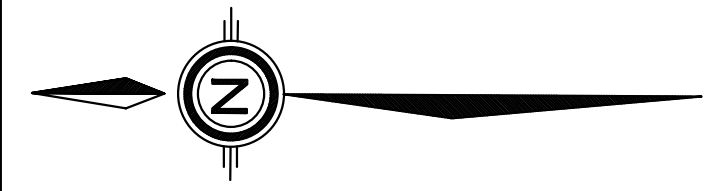
**NOTES:**  
1. CONDUITS WHICH INDIVIDUALLY PASS THRU AN INTERIOR WALL SHALL BE INSTALLED IN ACCORDANCE WITH THIS DETAIL. IF WALL IS A FIRE WALL, FILL CAVITY WITH FIRE STOP SEALANT SPECIFIED IN SECTION.  
2. INFORM STRUCTURAL DESIGNERS IF CONDUITS ARE MULTIPLE (>2'-0" LONG GROUPINGS) FOR STRUCTURAL REQUIREMENTS. STACKING VERTICALLY IS USUALLY PREFERABLE TO HORIZONTAL PLACEMENT.  
3. ALL THE MATERIALS, CLIPS, HANGERS, STRUT, FASTENERS, ANCHORS, SCREWS AND ASSORTED HARDWARE RELATED TO THE INSTALLATION MUST BE SS 316.

**WALL PENETRATION** ⑥  
N.T.S.

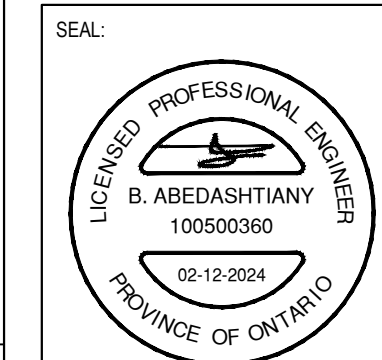


**NOTES:**  
1. INSTALL CONDUITS THROUGH EXISTING WALLS IN ACCORDANCE WITH THIS DETAIL IF NOT OTHERWISE INDICATED.  
2. DRILL HOLE USING METHODS THAT LEAVE A SMOOTH OPENING. SEAL OPENING AROUND CONDUIT, INSIDE, AND OUTSIDE, WITH ONE PART POLYURETHANE IMMERSIBLE SEALANT.

**CONDUIT ENTRANCE** ⑦  
N.T.S.



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



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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.	
DRAWN BY: A.Z.	

DISCIPLINE: **ELECTRICAL**



100 COMMERCE VALLEY DR. W.  
THORNHILL, ONTARIO CANADA L3T0A1  
TEL: 1-800-461-1711 FAX: 1-800-462-0000 WWW.WSPGROUP.PA

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



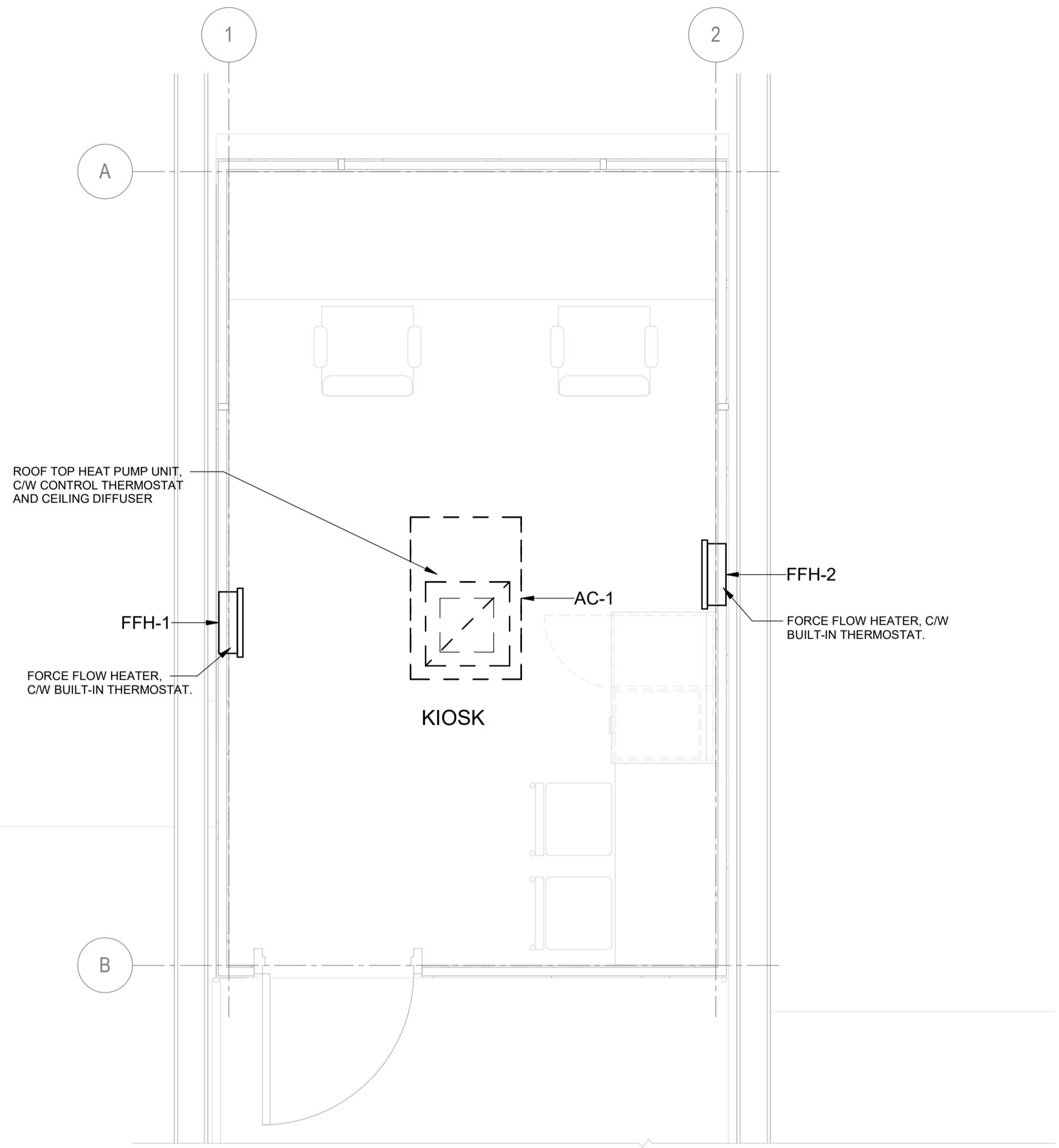
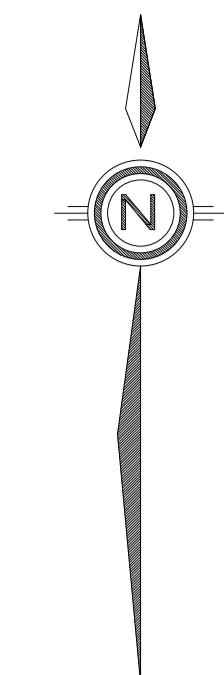
CLIENT REF. # --

PROJECT:  
**SCOTCH LINE LANDFILL  
PROPOSED TRANSFER  
STATION**

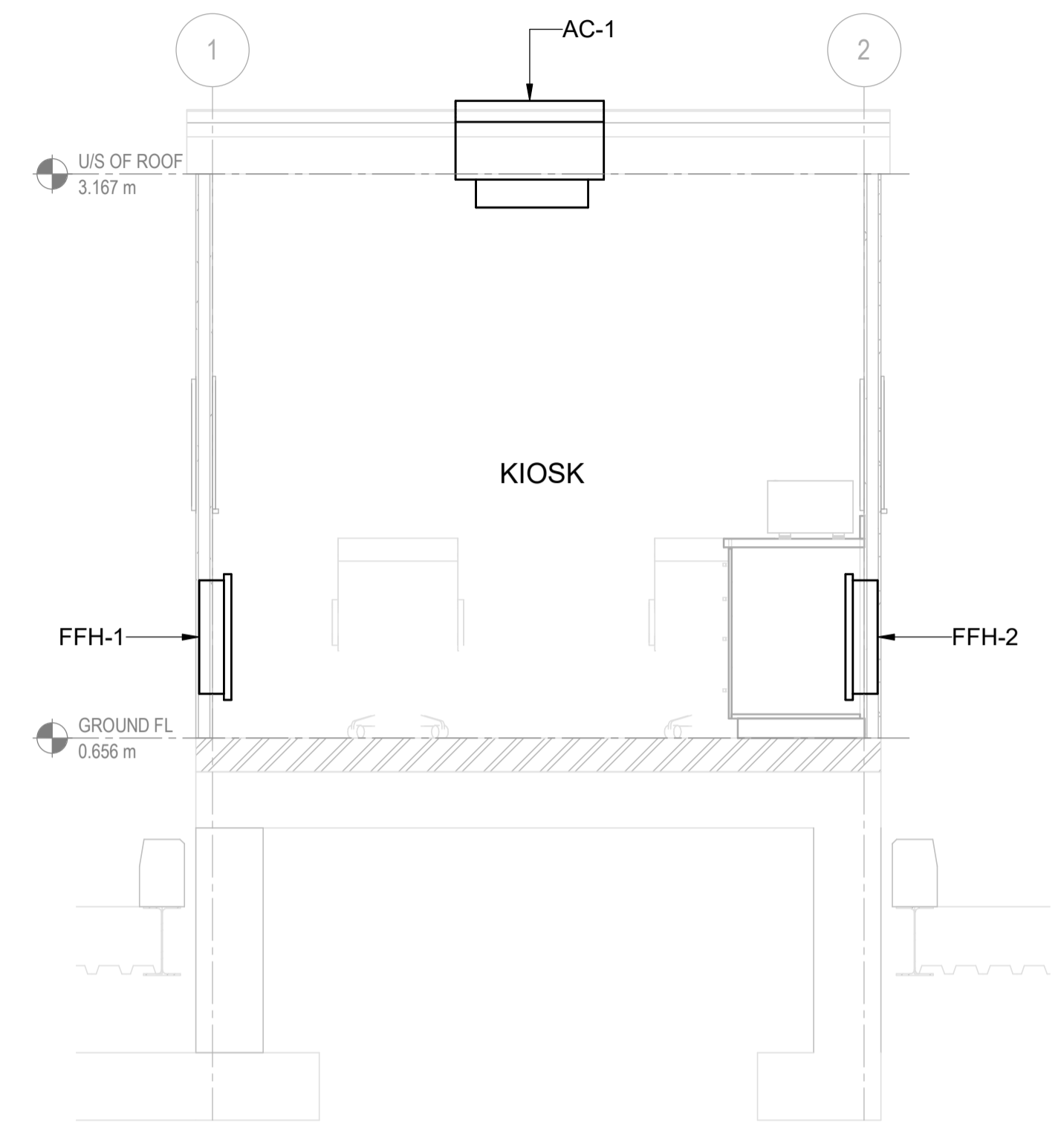
TITLE:  
**SINGLE LINE, SCHEMATIC DIAGRAMS,  
PANEL AND LUMINARE SCHEDULES**

DRAWING NUMBER: **E-4001** | REV: **1**





**1 MAIN HVAC FLOOR PLAN**  
M-1001/ 1:25



**2 SECTION**  
M-1001/ 1:25

ROOFTOP HEATPUMP UNIT SCHEDULE											
TAG No.	DESCRIPTION	LOCATION	TOTAL AIR FLOW (L/S)	COOLING CAPACITY (KW)	HEATING CAPACITY (KW)	ELECTRICAL DATA				WEIGHT (KG)	REMARKS
						V/PHz	FLA (A)	HEATING AMPS (A)	COMPRESSOR LOCK ROTOR (A)		
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 HEATPUMP UNIT IS SUPPLY BY PRE-FAB MANUFACTURER AND INSTALL BY THE CONTRACTOR

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

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

- NOTES:
1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OBC, ASHRAE, AND BEST PRACTICES.
  2. ALL DIMENSIONS ARE IN 1mm UNLESS OTHERWISE NOTED.
  3. COORDINATE ALL WORK WITH OUI 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.

REVISION:

REV	DATE	DESCRIPTION	BY
1	11.29.24	ISSUED FOR TENDER	PP



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APPROVED BY: <b>P.P.</b>	DATE: <b>06/07/24</b>
CHECKED BY: <b>J.H.</b>	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
DRAWN BY: <b>P.P.</b>	25mm

DISCIPLINE:



PROJECT NUMBER:  
CLIENT:



PROJECT:  
**SCOTCH LINE LANDFILL PROPOSED TRANSFER STATION**

TITLE:  
**SCALE KIOSK - HVAC PLAN AND SECTION**

DRAWING NUMBER: <b>M-1001</b>	REV: <b>1</b>
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