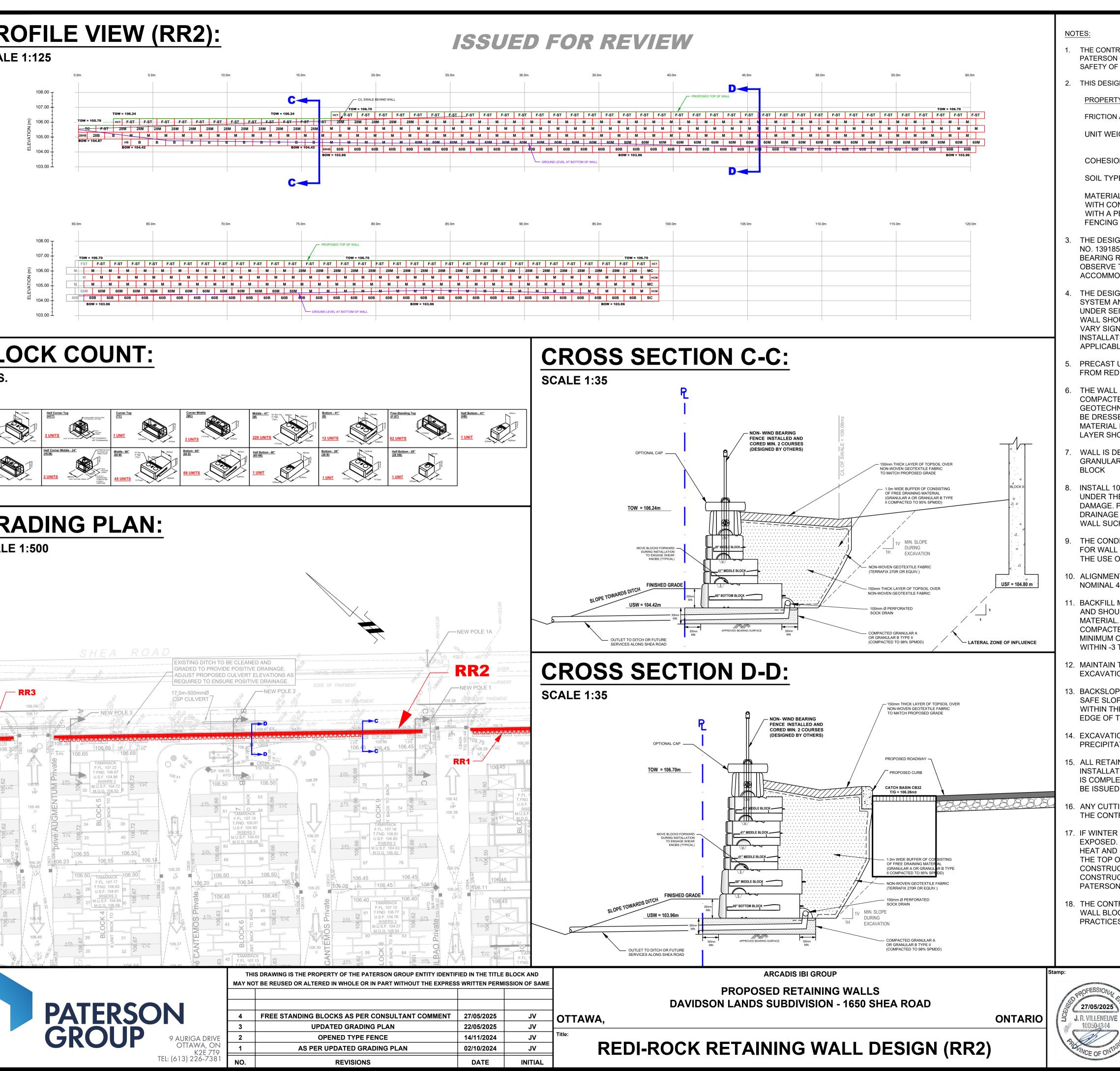


SCALE 1:125



BLOCK COUNT:

N.T.S.

Middle - 28" (28 M) (17 pp) 37 UNITS 17 (units) 17	1 UNIT	2 UNITS	Middle - 41" (M) (') (2a) (') (2a) (') (2a) (') (') (') (') (') (') (') (') (') ('	Bottom - 41" (B) 12 UNITS 17 UNITS	Free-Standing Top (F-ST) 82 UNITS	Half Bottom - 41" (HB) 1 UNIT
Bottom Corner (BC) 1 UNIT	Middle - 60" 10" Dia (60 M) 4" ligh 4 (ga 1 (ga 45 UNITS 117 lime	Bottom - 60" (60 B) 69 UNITS	Half Bottom - 60" (60 HB) 1 UNIT	Bottom - 28" <u>(28 B)</u> <u>1 UNIT</u> 1171mm 1171mm 1171mm	Half Bottom - 28" (28 HB) 1 UNIT 5/3mm	

GRADING PLAN:

SCALE 1:500					
				V=103.66	
				NEW POLE 1A	
SHEA RO	A D			1	
10 ⁴⁰	EXISTING DITCH TO E GRADED TO PROVIDI ADJUST PROPOSED REQUIRED TO ENSUI	E POSITIVE CULVERT E			
E 4 RR3	17.0m-500mmØ CSP CULVERT		-NEW POLE 2 VID OF PAVEMENT	NEW POLE 1	
106.09 106.17 106.17 NEW POLE 3					·
		52 104.22 이슈슈슈슈슈슈		19415 19419 19419 195.75 105.75	
1.6% 106.30 E 106.37 E 106.37 106.65 106.65	0 100 100 100 100 100 100 100 100 100 1	106.30 106.30		R1	× 106,45
21	106.41 X 106.50	5 7D 100,50	$\begin{array}{c} \underline{106.39} \\ 106.50 \\ \underline{106.39} \\ $	106.45 2 93	
CG 106.50 RISERS 3 C 22 94.8% 106.50 93.5 M.U.S.F. 104.72 94.8% 100 100 93.5 M.U.S.F. 104.72 94.8% 94.8% 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 <			53 (g) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3.2% 00 92	T.FND.
	4,4% 99 52 4,4% 90 51 51	TAMARACK F.FL. 107.16 T.FND. 106.8	54 C 4.7% HP 106.39	<u>2.3%</u> <u>91</u>	U.S.F. <u>RISE</u> M.U.S.F. M.G.G.
	106.32	U.S.F. 104.8 <u>RISERS 3</u> M.U.S.F. 104. M.G.G. 106.4	0 63 63 106.29 106.29 (106.29 (106.29)		BLO DINIT BA
24 5 33 40 106.60 0 106.55 106.55 106.55 0 2.3% 106.22 106.36 106.23 2.2% 106.55 2.8% 106.10	21.55% 99 5.5% 90 44 44 90 44		55 9 9 56 0 RISERS 3 M.U.S.F. 104.63 M.G.G. 106.42 9 5.1% 56 0 - <th>090 5.1% 01 89</th> <th></th>	090 5.1% 01 89	
104.57 106.55 106.50 106.50 106.50 106.50	106.25 0 106.50 106.25 106.50	106.54	106.50 PL V SEL 106.45 106.45		5
28 T.FND. 106.82 U.S.F. 104.81 9 ℃ RISERS 3 0 15 0 0 277 M.U.S.F. 104.65 0 0 5.7%	106.28 106.28 100.24 100.24 100.24 100.44	х лл	106.45 106.20 106.08 2.6% 106.45 28% 106.45 106.20		1.7%
DEL 07.09 106.74 00.02 106.42 106.42 00 00 00 00 00 00 00 00 00 0	47% ES	6 back	45 CO F A CL C F.FL. 107.12 F 3 C A CL C F. 104.76 C A CL C F.FL. 105.77 2 C A CL C	45	_82
RS 3 104.72 106.59 106.59 106.59 106.59 106.59			46 - SO - M.U.S.F. 104.57 - C - 106.22 M.G.G. 106.54	5.2% 9 X	81
HP 257 00 4.7%		2 TAMARAC 2 F.FL. 107.		105.22	80 CARI F.FL. 1
E Privet 5 8 1 9 106 32 8 5 106 55	106.40	TEND 106	S DRAWING IS THE PROPERTY OF THE PATERSON GROUP ENTITY IDENTIF		
		MAY NO	T BE REUSED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS	5 WRITTEN PERMI	ISSION OF
PATERSC GROUP)N	4	FREE STANDING BLOCKS AS PER CONSULTANT COMMENT	27/05/2025	J
	9 AURIGA DRIVE	3 2	UPDATED GRADING PLAN OPENED TYPE FENCE	22/05/2025 14/11/2024	J
	K2E/19	1	AS PER UPDATED GRADING PLAN	02/10/2024	J
	TEL: (613) 226-7381	NO.	REVISIONS	DATE	ΙΝΙΤ

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR UTILITY CLEARANCES AND CONSTRUCTION SITE SAFETY PATERSON GROUP SHALL NOT BE RESPONSIBLE FOR MEANS OR METHODS OF CONSTRUCTION OR FOR SAFETY OF WORKERS OR OF THE PUBLIC.

2. THIS DESIGN IS BASED ON THE FOLLOWING SOIL PROPERTIES:

<u>Y</u>	RETAINED FILL	FOUNDATION MEDIUM
ANGLE - φ	40°	33°
GHT - ɣ	22 kN/m3	19 kN/m3
N - C	0	0 kPa
E	OPSS GRANULAR B TYPE II	SILTY SAND

MATERIAL PROPERTIES ARE BASED ON SITE EVALUATION BY PATERSON GROUP AND DISCUSSIONS WITH CONTRACTOR. SEISMIC LOADING WAS EVALUATED ACCORDING TO THE CURRENT CHBDC WITH A PEAK GROUND ACCELERATION VALUE OF 0.251. WALL DESIGN WITH OPEN RAILING OR FENCING SUCH AS CHAINLINK.

THE DESIGN ELEVATIONS USED WERE BASED ON A GRADING PLAN DRAWN BY IBI GROUP PROJECT NO. 139185 SHEET NUMBER 200, REV.3 DATED 21/03/2025. THE WALL BASE DESIGN ASSUMES A BEARING RESISTANCE AT SLS OF 125 kPa ON SILTY SAND. PATERSON GROUP ENGINEER SHOULD OBSERVE THE BEARING CONDITIONS AND ADJUST THE THICKNESS OF THE GRANULAR BASE TO ACCOMMODATE THE SITE CONDITIONS, IF NECESSARY.

THE DESIGN HAS BEEN REVIEWED FOR THE STABILITY OF THE PRECAST MODULAR RETAINING WALL SYSTEM AND GLOBAL STABILITY WITH A FACTOR OF SAFETY OF 1.5 FOR STATIC CONDITIONS AND 1.1 UNDER SEISMIC CONDITIONS. WALL GEOMETRY AND GRADE ELEVATIONS ABOVE AND BELOW THE WALL SHOULD CONFORM WITH THE GRADING PLAN PROVIDED HERE IN. IF ACTUAL SITE GRADES VARY SIGNIFICANTLY FROM THOSE SHOWN OR IF THE BACK SLOPE DOES NOT CONFORM, INSTALLATION SHALL NOT PROCEED UNTIL THE DESIGN IS VERIFIED OR MODIFIED IN THE

PRECAST UNITS SHALL BE REDI-ROCK RETAINING WALL UNITS MANUFACTURED UNDER LICENSE

6. THE WALL BASE FOR THE WALL SHALL CONSIST OF A MIN. 300mm THICK OPSS GRANULAR A COMPACTED TO MIN. 98% OF THE MATERIALS SPMDD AND TESTED BY PATERSONGROUP GEOTECHNICAL PERSONNEL AT THE TIME OF CONSTRUCTION. SURFACE OF GRANULAR BASE MAY BE DRESSED WITH FINER AGGREGATE TO AID LEVELING. ENSURE GRADATION OF DRESSING MATERIAL IS SUCH AS TO PRECLUDE LOSS OF FINES INTO BASE. THE THICKNESS OF DRESSING LAYER SHOULD NOT EXCEED 3 TIMES THE MAXIMUM PARTICLE SIZE USED

WALL IS DESIGNED WITH A MIN. 300mm TOE EMBEDMENT WITH A MIN. HORIZONTAL LEDGE WITH A GRANULAR BEDDING LAYER EXTENDING A MIN. 300mm BEYOND THE FACE AND HEEL OF THE BASE

8. INSTALL 100mm DIAMETER PERFORATED PIPE WRAPPED WITH A GEOSOCK DRAIN BEHIND HEEL OR UNDER THE WALL. PROVIDE CLEAR STONE SURROUND TO PROTECT PIPE FROM CLOGGING AND DAMAGE. PROVIDE OUTLETS THROUGH WALL, NO FURTHER APART THAN 30.0m ON CENTRES. THE DRAINAGE PIPE SHOULD BE CONNECTED TO A POSITIVE OUTLET ON BOTH ENDS OF THE RETAINING WALL SUCH AS AN EXISTING DITCH OR CATCH BASIN.

9. THE CONDITIONS WILL BE EVALUATED BY THE GEOTECHNICAL ENGINEER DURING PREPARATION FOR WALL CONSTRUCTION IN EACH AREA. WHERE GRANULAR BEDDING WILL NOT BE SUFFICIENT THE USE OF CONCRETE BEDDING MAY BE REQUIRED.

10. ALIGNMENT OF THE BOTTOM WALL UNIT COURSE SHOULD BE PLANNED TO CONSIDER THAT A NOMINAL 41mm AUTOMATIC SETBACK WILL OCCUR WITH EACH 0.46m INCREMENT OF HEIGHT.

11. BACKFILL MATERIAL SHALL BE APPROVED BY THE SITE GEOTECHNICAL ENGINEER PRIOR TO USE AND SHOULD CONSIST OF OPSS GRANULAR A OR B TYPE II FOLLOWED BY SUITABLE BACKFILL MATERIAL. ALL FILL WITHIN A 1H:1V ZONE UP AND BACK FROM THE HEEL SHOULD ALSO BE COMPACTED. BACKFILL SHALL BE PLACED IN MAXIMUM 300mm LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95% OF SPMDD. MOISTURE CONTENT SHOULD BE CONTROLLED AND MAINTAINED WITHIN -3 TO +4 PERCENT OF OPTIMUM.

12. MAINTAIN TEMPORARY GRADES TO DIVERT SURFACE WATER AWAY FROM THE RETAINING WALL EXCAVATION. SLOPE FINAL BACKFILL TO PROVIDE POSITIVE DRAINAGE AND TO ELIMINATE PONDING.

13. BACKSLOPE SHOULD BE CUT BACK TO A MINIMUM OF 2H:1V TO 3H:1V TO MAINTAIN A LONG TERM SAFE SLOPE BEHIND THE RETAINING WALL. IT SHOULD BE NOTED THAT WHERE TREES ARE PRESENT WITHIN THE TOP OF SLOPE. A MINIMUM 1.0m SET BACK IS REQUIRED FOR EXCAVATION FROM THE EDGE OF THE TREE LINE WHERE PRESENT.

14. EXCAVATION SIDE SLOPES SHOULD BE PROTECTED TEMPORARILY DURING CONSTRUCTION FROM PRECIPITATION EVENTS BY PLACEMENT OF TARPS.

15. ALL RETAINING WALL RELATED INSPECTIONS (BEARING SURFACE, COMPACTION, BLOCK INSTALLATION, ETC.) MUST BE COMPLETED BY PATERSON GROUP. ONCE THE WALL CONSTRUCTION IS COMPLETED AND REVIEWED BY PATERSON DURING CONSTRUCTION, A CERTIFICATE LETTER WILL BE ISSUED BY PATERSON GROUP.

16. ANY CUTTING OF BLOCKS TO SUIT SITE CONDITIONS OR WALL DESIGN WILL BE RESPONSIBILITY OF

17. IF WINTER CONSTRUCTION IS CONSIDERED, HEAT MUST BE MAINTAINED WHEN THE BASE IS EXPOSED. THE WALL BASE MUST COVERED WITH HIGH GRADE INSULATION TARPS TO MAINTAIN HEAT AND PROTECT THE BASE FROM POTENTIAL FROST HEAVE. ONCE THE BASE IS BACKFILLED, THE TOP OF THE WALL MUST BE COVERED WITH INSULATION TARPS OVERNIGHT UNTIL THE WALL CONSTRUCTION IS COMPLETED. ADDITIONAL INSPECTIONS WILL BE REQUIRED DURING WINTER CONSTRUCTION TO ENSURE THE WALL CONSTRUCTION IS IN GENERAL CONFORMANCE WITH PATERSON'S RECOMMENDATIONS.

18. THE CONTRACTOR SHOULD REFER TO THE INSTALLATION MANUAL PROVIDED FOR THE RETAINING WALL BLOCK TYPE PROVIDED HEREIN FOR ADDITIONAL DETAILS ON ACCEPTABLE INSTALLATION

	Stamp:	Scale:		File No.:
			AS SHOWN	PG6633
	27/05/2025	Drawn by:	ст	Drawing No.:
AGINEER	27/05/2025 F. I. ABOU-SEIDO 100156744	Checked by:	JV	
3	Approved by:	FA	PG6633-2	
<i>P</i>	NCE OF ON	Date:	03/2023	Revision No.: 4