

P:\P 40318-400\40318-400-AR1

MTE FILE PATH:

March 17, 2022 - 2:09:50 PM - Plotted By: Scott Schellef

OPERATIONAL PLAN NOTES:

MAXIMUM AREA TO BE EXTRACTED:

1. THE AREA TO BE EXTRACTED IS 17.5 HECTARES.

MAXIMUM TONNAGE LIMIT:

2. THE AMOUNT OF AGGREGATE TO BE REMOVED FROM THE SITE SHALL NOT EXCEED 750,000 TONNES/YEAR.
3. THE TOTAL COMBINED ANNUAL LIMIT FOR THE EXISTING LEWIS PIT (LICENCE NO. 3560) PLUS THE EXPANSION WILL NOT EXCEED 750,000 TONNES/YEAR.

HOURS OF OPERATION:

4. EXTRACTION AND PROCESSING OPERATIONS SHALL ONLY BE DONE DURING THE DAYTIME (ie. 7:00am TO 7:00pm)
5. SHIPPING WILL BE CONSISTENT WITH THE EXISTING LEWIS PIT (LICENSE NO. 3560) SHIPPING MAY OCCUR 24hrs./DAY, 7 DAYS/ WEEK

ENTRANCE AND EXIT:

6. ACCESS TO THE EXPANSION WILL BE BY AN INTERNAL HAUL ROAD THROUGH THE EXISTING LEWIS PIT, WITH SHIPPING THROUGH THE EXISTING ENTRANCE ONTO GEORGE JOHNSTON ROAD AS SHOWN ON DETAIL 1 ON SHEET 1 OF 4.
7. AGGREGATE WILL BE DELIVERED TO THE MARKET USING SIMCOE COUNTY ROAD 28 (GEORGE JOHNSTON ROAD). IF REQUIRED, DELIVERIES TO THE LOCAL MARKET MAY ACCESS LOCAL MUNICIPAL ROADS. THE ENTRANCE/EXIT WILL BE GATED AND LOCKED WHEN THE PIT IS NOT IN USE.
8. THERE ARE THREE ENTRANCES/EXITS TO THE SITE FROM SEADON ROAD THAT WILL BE USED FOR PROPERTY MAINTENANCE ACCESS.

PROPOSED FENCING:

9. A 1.2-METER-HIGH POST AND WIRE FENCE SHALL BE INSTALLED OR MAINTAINED ALONG GEORGE JOHNSTON ROAD, SEADON ROAD, AND THE EASTERN LICENSED BOUNDARY PRIOR TO EXTRACTION. THE FENCING SHALL CONFORM TO THE PROVINCIAL STANDARD OF THE AGGREGATE RESOURCES ACT AND SHALL BE MAINTAINED FOR THE LIFE OF THE PIT.
10. NO FENCING WILL BE INSTALLED ALONG THE NORTHERN BOUNDARY AS PER THE SITE PLAN VARIATIONS TABLE.

PROPOSED SETBACKS:

11. APPROPRIATE SETBACKS SHALL BE MAINTAINED AS DRAWN ON THIS PLAN: 15 METERS ALONG THE EAST BOUNDARY, 30 METERS ALONG SEADON ROAD, 30 METERS ALONG GEORGE JOHNSTON ROAD, AND NO SETBACK IS REQUIRED ALONG THE NORTH BOUNDARY AS DETAILED ON THE SITE PLAN VARIATIONS TABLE.

PHASING AND PIT DEVELOPMENT:

12. EXTRACTION WILL CONTINUE FROM THE EXISTING LEWIS PIT AND MOVE SOUTH AS SHOWN ON THE PLAN. THE AGGREGATE SEQUENCE OF THE PIT WILL CONSIST OF 4 PHASES AND WILL OCCUR IN THE SEQUENCE PROPOSED. THE EXTRACTION OPERATIONS WILL FOLLOW THE GENERAL DIRECTION OF THE ARROWS AS SHOWN UNTIL THE LIMIT OF EXTRACTION OF EACH PHASE IS REACHED.
13. THE PROCESSING AREA WILL FOLLOW THE ACTIVE FACE OF EXTRACTION OR BE LOCATED IN THE EXISTING LEWIS PIT.
14. DUE TO THE VARIABILITY OF THE AGGREGATE QUALITIES AND MARKET DEMANDS, EXTRACTION MAY OCCUR SIMULTANEOUSLY WITHIN TWO SEQUENTIAL PHASES. ONCE THE FIRST LIFT HAS BEEN ESTABLISHED, PROCESSING AND STOCKPILING MAY OCCUR ANYWHERE IN THE ACTIVE EXTRACTION AREA.
15. THE SITE SHALL BE MAINTAINED AND OPERATED IN AN ORDERLY MANNER.
16. PHASE 4 WILL BE THE LAST PHASE TO BE EXTRACTED SO THAT A WILDLIFE CORRIDOR IS MAINTAINED ACROSS THE SITE DURING EXTRACTION. PHASE 4 WILL BE EXTRACTED AFTER REHABILITATION HAS BEEN COMPLETED ALONG THE WESTERN BOUNDARY, WHICH WILL PROVIDE AN ALTERNATE WILDLIFE CORRIDOR WHILE PHASE 4 IS BEING EXTRACTED.

SITE PREPARATION, TOPSOIL AND OVERBURDEN STRIPPING:

17. PRIOR TO EXTRACTION, ALL TOPSOIL AND SUBSOIL SHALL BE STRIPPED AND STORED SEPARATELY IN STOCKPILES OR BERMS ALONG THE SOUTH, EAST AND WEST BOUNDARIES. THIS TOPSOIL AND SUBSOIL IS TO BE USED TO REHABILITATE THE PIT.
18. TOPSOIL AND SUBSOIL STOCKPILES SHALL BE SEEDED WITH A GRASS/LEGUME MIXTURE TO PREVENT EROSION AND DUST. THE VEGETATION SHALL BE MAINTAINED TO PREVENT UNSIGHTLY WEED GROWTH.
19. ALL TREES MAY BE HARVESTED AND SOLD AS LUMBER AND/OR FIREWOOD. STUMPS SHALL BE BURNED AND/OR STORED WITHIN THE LICENSED AREA UNTIL REQUIRED

- FOR REHABILITATION.
20. PRIOR TO EXTRACTION, CLEARING AND GRUBBING OF TREES SHALL TAKE PLACE AS REQUIRED.

EXTRACTION LIFTS:

21. EXTRACTION OF AGGREGATE WILL BE CONDUCTED IN 6 TO 8 LIFTS DEPENDENT ON AGGREGATE QUALITY AND TYPE AND SIZE OF EXCAVATION EQUIPMENT. MAXIMUM HEIGHT OF EACH LIFT WILL BE 8 METERS AND SHALL BE OPERATED IN COMPLIANCE WITH THE MINISTRY OF LABOUR (MOL) REQUIREMENTS (MAXIMUM HEIGHT OF 1.5M ABOVE THE REACH OF EQUIPMENT USED FOR REMOVAL OF AGGREGATE).

BERMING:

22. BERM CONSTRUCTION WILL BE ESTABLISHED AS SHOWN ON THE SITE PLAN AND DESIGNED ACCORDING TO THE SPECIFICATIONS NOTED IN THE NOISE MITIGATION MEASURES RECOMMENDATIONS (SHEET 4 OF 4).
23. ALL BERMS SHALL BE SEEDED WITH GRASS/LEGUME MIXTURES TO PREVENT EROSION AND DUST FROM LEAVING THE SITE.

AGGREGATE STOCKPILING:

24. TEMPORARY STOCKPILES WILL BE RELOCATED IN THE ACTIVE AREA AS REQUIRED BUT WILL REMAIN AT LEAST 30 METERS AWAY FROM THE LICENSE BOUNDARY EXCEPT ALONG THE NORTH BOUNDARY AS DETAILED IN THE SITE PLAN VARIATIONS TABLE.
25. MULTIPLE PIT FACES MAY BE OPERATED SIMULTANEOUSLY AS THE PIT AREA EXPANDS AND THE PIT FLOOR ALLOWS FOR STOCKPILES OF AGGREGATE PRODUCTS.

EQUIPMENT:

26. EQUIPMENT TO BE USED ON SITE MAY INCLUDE, BUT NOT LIMITED TO:

LOADERS	WOOD GRINDERS	CRUSHERS	PORTABLE ASPHALT PLANT
EXCAVATORS	TREE SPADE TRUCKS	CONVEYORS	PORTABLE CONCRETE READY-MIX PLAN
DOZERS	SCREENING PLANTS	AGGREGATE WASHING EQUIPMENT	
TREE HARVESTERS	FEED BINS		

INTERNAL HAUL ROADS:

27. THERE IS AN INTERNAL ROAD ON THE EXISTING LEWIS PIT FROM THE ENTRANCE INTO THE PIT. INTERNAL HAUL ROADS WILL BE EXTENDED AS REQUIRED ONTO THE SITE INTO THE ACTIVE AREAS. INTERNAL HAUL ROADS MAY BE RELOCATED FROM TIME TO TIME.

GROUNDWATER TABLE AND DEPTH OF EXTRACTION:

28. THE DEPTH OF EXTRACTION SHALL REMAIN 1.5 METERS ABOVE THE MAXIMUM WATER TABLE. GROUNDWATER LEVELS WILL BE MONITORED USING MONITORING WELLS INSTALLED AT THE LOCATIONS SHOWN ON THE PLAN AND IN ACCORDANCE WITH THE HYDROGEOLOGY RECOMMENDATIONS.

WATER DIVERSION/DISCHARGE:

29. NO PROPOSED SURFACE WATER DRAINAGE AND DRAINAGE FACILITIES ARE PROPOSED FOR THIS SITE. ANY WATER THAT IS CONTAINED BY THE PIT WILL INFILTRATE DOWN TO THE WATER TABLE.

ESTABLISHMENT OF PERIMETER SLOPES:

30. PERIMETER SLOPES OR EMBANKMENTS WILL BE CREATED AS THE LIMITS OF EXTRACTION ARE REACHED.
31. ALL SLOPES OR EMBANKMENTS SHALL BE CONSTRUCTED USING 3:1(MAX) SLOPES ALONG THE PIT FACES.
32. SLOPES WILL BE ESTABLISHED BY BACKFILLING WITH OVERBURDEN AND UNMARKETABLE AGGREGATE MATERIAL OR IMPORTED MATERIAL AND THEN GRADED PRIOR TO THE PLACEMENT OF THE TOPSOIL.
33. TOPSOIL WILL BE SPREAD (100mm THICK) TO GROW AND MAINTAIN A GRASS / LEGUME SEED MIXTURE SUITABLE FOR THE SOIL CONDITIONS TO PREVENT EROSION AND DUST.

IMPORTATION OF MATERIAL:

34. TOPSOIL AND IMPORTED MATERIAL MAY BE BROUGHT ON SITE AND USED DIRECTLY IN THE PROGRESSIVE REHABILITATION OF THE THE PIT AS PER THE REHABILITATION PLAN (SHEET 3 OF 4).

AGGREGATE RECYCLING:

35. THE IMPORTATION OF CONCRETE, ASPHALT, AND AGGREGATE PRODUCTS FOR RECYCLING WILL BE PERMITTED AS AN ACCESSORY USE TO THE AGGREGATE OPERATION. THE RECYCLABLE AGGREGATE MATERIAL (CONCRETE AND ASPHALT) WILL BE STOCKPILED SEPARATELY WITHIN THE ACTIVE AREA.
36. REMOVAL OF RECYCLED AGGREGATE IS TO BE ONGOING. ANY REBAR AND OTHER STRUCTURAL METAL REMOVED DURING THE PROCESSING OF RECYCLABLE CONCRETE WILL BE COLLECTED AND TEMPORARILY STORED ON THE PIT FLOOR AND REMOVED FROM THE SITE FROM TIME TO TIME.
37. RECYCLABLE MATERIALS WILL NOT BE STOCKPILED WITHIN 2 METERS OF THE MAXIMUM PREDICTED WATER TABLE.
38. IMPORTATION OF RECYCLABLE AGGREGATE MATERIALS WILL CEASE ONCE THE NATIVE AGGREGATE HAS BEEN DEPLETED FROM THE SITE. ONCE FINAL REHABILITATION HAS BEEN COMPLETED AND APPROVED IN ACCORDANCE WITH THE SITE PLAN, ALL RECYCLABLE OPERATIONS MUST CEASE.

BUILDINGS AND STRUCTURES:

39. TEMPORARY STRUCTURES LOCATED ON-SITE WILL BE REMOVED OR RELOCATED AS NECESSARY DURING PIT OPERATION.

SCRAP:

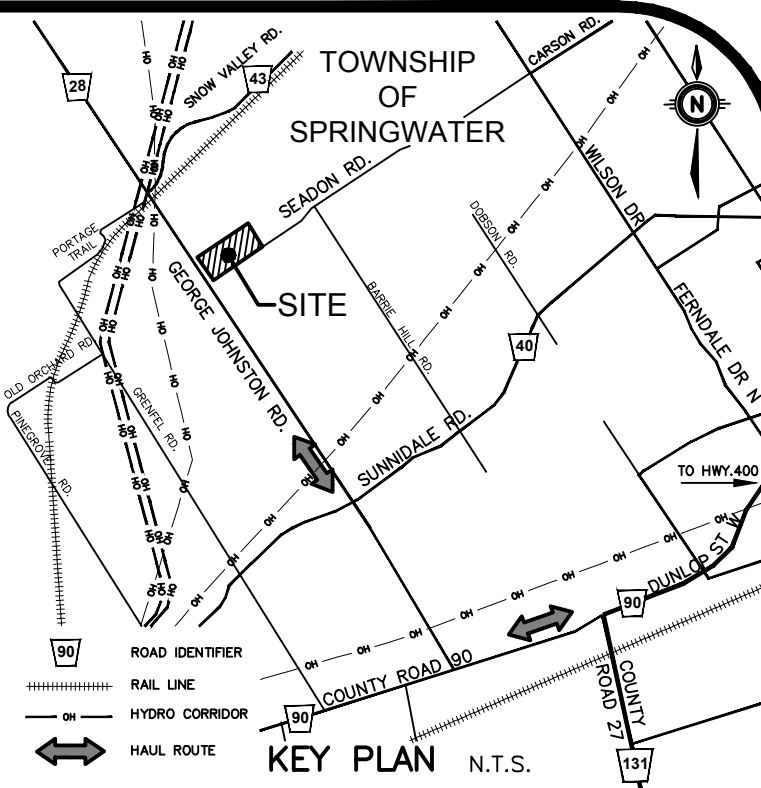
40. ANY SCRAP RESULTING FROM THE PIT OPERATIONS WILL BE COLLECTED AND TEMPORARILY STORED WITHIN THE CURRENT OPERATING PHASE IN ONE LOCATION, OR STORED IN A DESIGNATED SCRAP AREA AND WILL BE REMOVED FROM THE SITE ON AN ONGOING BASIS. NO SCRAP WILL BE LOCATED WITHIN 30 METERS OF THE LICENSED BOUNDARY.

FUEL STORAGE:

41. ALL FUELLING OF EQUIPMENT WILL BE DONE BY WAY OF FUEL TRUCKS OR PORTABLE TANKS.
42. MAJOR SERVICING OF EQUIPMENT WILL BE DONE OFF SITE, BUT SOME MINOR SERVICING WILL TAKE PLACE ON SITE. MINOR SERVICING REFERS TO TIRE CHANGES, GREASING, OIL CHANGES AND FUELLING BY MOBILE UNIT.
43. ALL PETROLEUM WASTE PRODUCTS WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH APPROVED METHODS.
44. THE SITE WILL OPERATE IN ACCORDANCE WITH THE LEWIS PIT SPILLS PLAN.

SOURCE WATER PROTECTION

45. THE SITE IS LOCATED OUTSIDE OF EXISTING WELL HEAD PROTECTION AREAS. SOURCE WATER PROTECTION POLICIES DO NOT APPLY TO THE SITE.



SITE BENCHMARK ELEV. = 293.06m
TOP OF SIB LOCATED IN THE SOUTH WEST CORNER OF PROPERTY (AS SHOWN ON PLAN). ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE RTK SMARTNET NETWORK CGVD28-78

I, ACKNOWLEDGE AND SHALL CARRY ON THE OPERATION OF THIS SITE IN ACCORDANCE WITH THE SITE PLAN UPON WHICH MY LICENSE IS BASED.

David W. Kennedy March 16, 2022
DATE

SITE PLANS APPROVED BY:

MINISTRY OF NORTHERN DEVELOPMENT, MINES, NATURAL RESOURCES AND FORESTRY DATE

DECLARATION OF PURPOSE
THIS SITE PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR A CLASS 'A' LICENCE PIT ABOVE WATER.

SITE PLAN VARIATIONS	
8.	
7.	
6.	
5.	
4.	
3.	Stockpiling may be located within 30m of the northern licensed boundary. 0.13(1)13.i.
2.	Relief from fencing along north boundary. 0.13(3)a
1.	Abutting lands owned by licensee. 0.13(1)10.i.
No. V A R I A T I O N O.Reg. Section	
SITE PLAN AMENDMENTS	
8.	
7.	
6.	
5.	
4.	
3.	
2.	
1.	
No. R E V I S I O N	BY YYYY-MM-DD

MTE
Engineers, Scientists, Surveyors

519-743-6500

David W. Kennedy

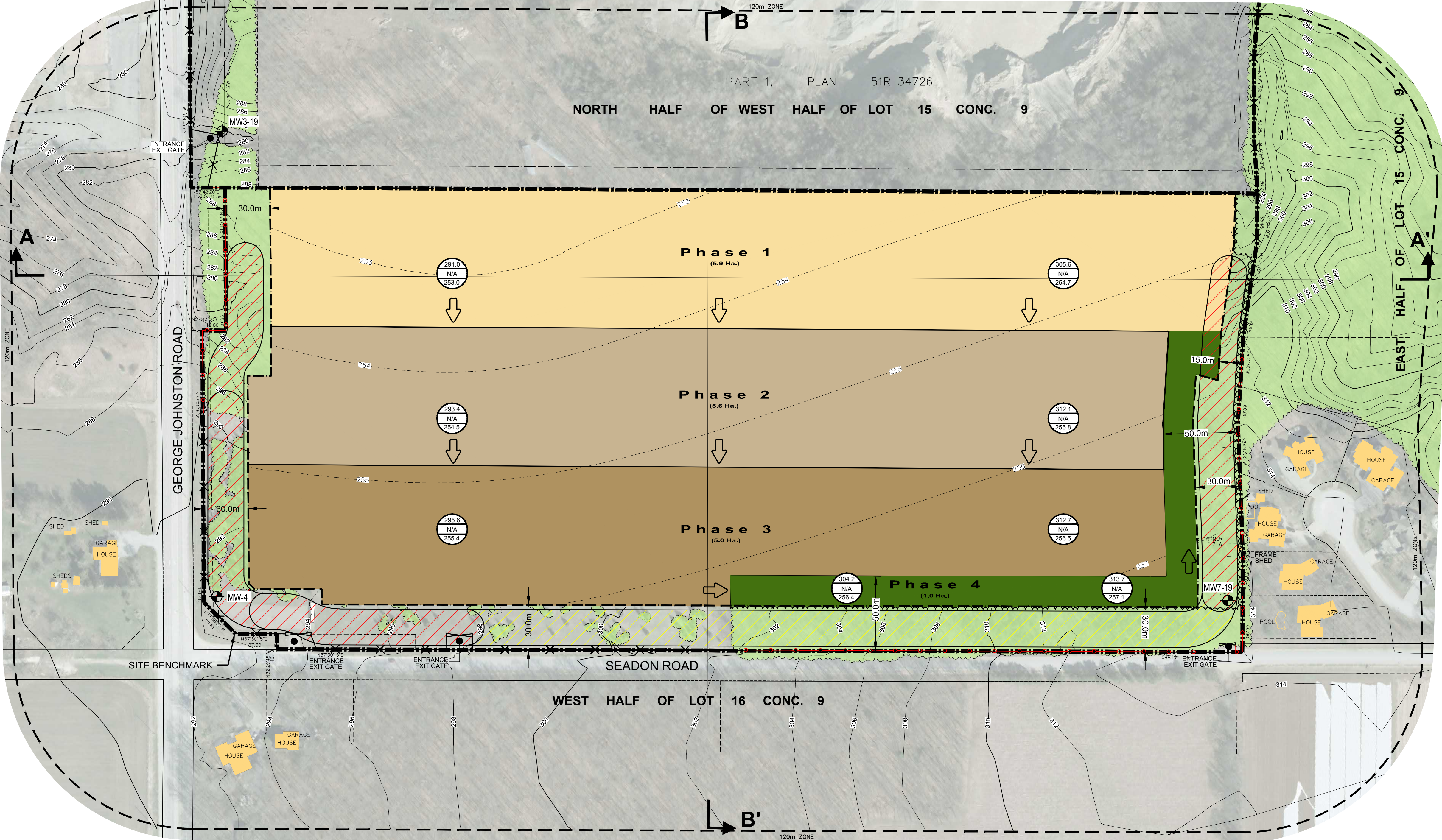
CLIENT
GALIBIER MATERIALS INC.

151 Whitehall Drive Markham, ON
PROJECT
LEWIS PIT EXPANSION
WEST 1/2 OF LOT 15, CONCESSION 9,
TOWNSHIP OF SPRINGWATER (FORMERLY VESPREA TOWNSHIP),
COUNTY OF SIMCOE, ONTARIO

DRAWING

OPERATIONAL PLAN

Project Manager J.FLANAGAN	Project No. 40318-400
Design By JBF	Checked By CJC
Drawn By WSS	Checked By JBF
Surveyed By J.D.BARNES	Drawing No. AR1.2
Date MARCH 2022	Scale 1:1500
Sheet 2 of 4	



LEGEND	
---	LOT LINE
---	LICENCED BOUNDARY
---	LIMIT OF EXTRACTION
---	120m ZONE
---	PROPOSED FENCE
---	EXISTING FENCE
Phase 1	EXTRACTION DIRECTION AND PHASE NUMBER
---	EXISTING CONTOURS
---	PIT FLOOR CONTOURS
---	PHASE 1 BERM
---	PHASE 2,3,4 BERM (IF REQUIRED)
---	EXISTING GROUND ELEVATION
---	REHABILITATION ELEVATION
---	PIT FLOOR FLOOR ELEVATION