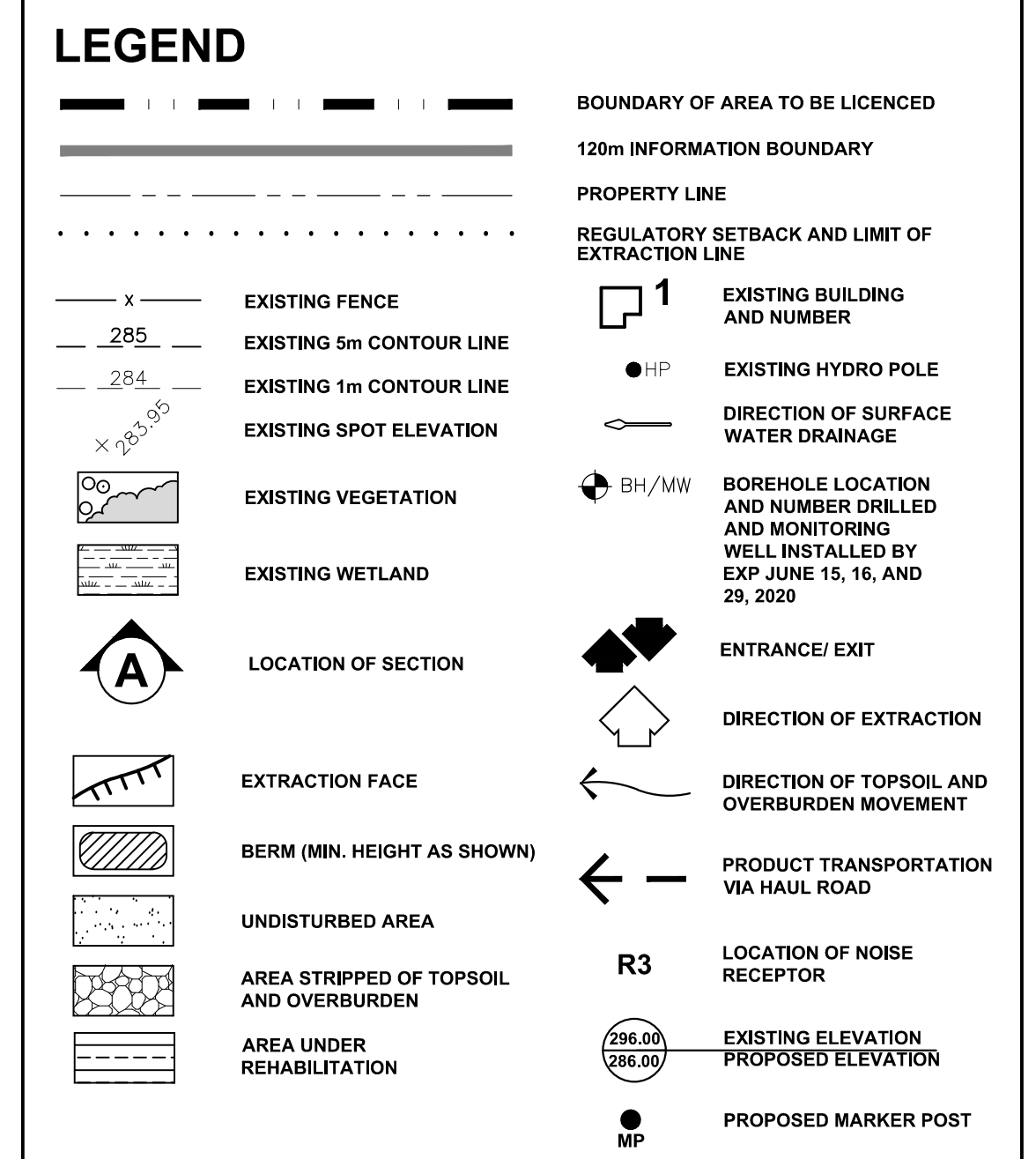


PHASE A
PHASE A NOTES

1. ESTABLISH THE ENTRANCE/EXIT AND HAUL ROAD INTO THE SITE AT THORNDALE ROAD, ACCORDING TO THE APPROPRIATE MUNICIPAL STANDARDS. CONSTRUCT THE PROPOSED SCALE, SCALEHOUSE AND/OR OFFICE AND FUEL STORAGE IN THE AREA SHOWN.
2. PRIOR TO ANY ON SITE OPERATIONS, CONSTRUCT OR UPGRADE THE FENCING ON THE LICENCED BOUNDARIES TO THE STANDARDS OF THE AGGREGATE RESOURCES ACT (1.2m HIGH POST AND WIRE FENCE), EXCEPT WHERE SITE PLAN OVERRIDES ARE NOTED). ALL FENCING SHALL BE MAINTAINED.
3. CONSTRUCT THE HAUL ROAD THROUGH SOUTH PART OF AREA 1 AND 2 AND USE STRIPPED SOIL TO BEGINS CONSTRUCTION OF ACOUSTIC BERM.
4. PRIOR TO EXTRACTION STRIP TOPSOIL AND OVERBURDEN SEPARATELY USE THE MATERIALS TO CONTINUE CONSTRUCTION OF ACOUSTIC BERM TO RECOMMENDED SPECIFICATIONS.
5. ANY REMAINING STRIPPED MATERIAL MAY BE STORED IN STORAGE BERM AS SHOWN.
6. BEGIN EXTRACTION OF AREA 1 IN A WESTERLY DIRECTION. PORTABLE PROCESSING PLANT AND STOCKPILING AREA MAY BE TEMPORARILY LOCATED NEAR THE PIT FACE.
7. UNDISTURBED PORTIONS OF AREAS 1 AND 2 SHALL REMAIN IN AGRICULTURAL USE.

OPERATIONS NOTES

- GENERAL INFORMATION**
1. THIS PLAN DEPICTS A SCHEMATIC OPERATIONS AND REHABILITATION SEQUENCE FOR THIS PROPERTY BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION. PHASES SHOWN ARE SCHEMATIC AND MAY SLIGHTLY VARY WITH MATERIAL QUALITY, SITE HYDROLOGY AND HYDROGEOLOGY OR MARKET DEMAND. PHASES DO NOT REPRESENT ANY SPECIFIC OR EQUAL TIME PERIOD.
 2. EXTRACTION SHALL GENERALLY FOLLOW THE SEQUENCE SHOWN. WHEN PARTIAL REHABILITATION OF A PHASE IS POSSIBLE IT SHALL BE CARRIED OUT. NOT WITHSTANDING THE EXTRACTION AND REHABILITATION PROCESS ABOVE, DEMAND FOR CERTAIN PRODUCTS OR BLENDING OF MATERIALS MAY REQUIRE SOME DEVIATION IN THE EXTRACTION AND REHABILITATION SEQUENCE. ANY MAJOR DEVIATIONS FROM THE OPERATIONS SEQUENCE SHOWN WILL REQUIRE APPROVAL FROM MNR.
 3. REFER TO DRAWING 1 OF 4, EXISTING FEATURES, FOR A DESCRIPTION OF EXISTING VEGETATION AND BUILDINGS WITHIN THE 120 METRE BOUNDARY AND ON SITE.
 4. SITE PLAN OVERRIDES ARE LISTED IN THE SITE PLAN OVERRIDE TABLE SHOWN ON THIS PAGE.
- EXTRACTION/PROCESSING/HAULING INFORMATION**
4. TOTAL AREA TO BE EXTRACTED IS 12.0 HECTARES.
 5. MAXIMUM NUMBER OF TONNES OF AGGREGATE TO BE REMOVED FROM THE SITE IN ANY CALENDAR YEAR IS 300,000 TONNES.
 - EXTRACTION OF SAND AND GRAVEL ABOVE WATER TABLE WILL TAKE PLACE IN ONE OR TWO BENCHES, WITH A MAXIMUM HEIGHT OF 15 METRES. THE GROUNDWATER TABLE IS ESTIMATED TO BE BETWEEN ± 275.5 AND 279.5m ASL (SEE HYDROGEOLOGICAL REPORT BY EXP). FRONT END LOADERS WILL BE USED TO EXTRACT MATERIAL AND HAUL TRUCKS OR CONVEYORS WILL CARRY MATERIAL TO THE PORTABLE PLANT FOR FURTHER PROCESSING. REFER TO SECTIONS A-A', B-B', AND C-C' ON DRAWING 4 OF 4 FOR FURTHER DETAILS.
 - PORTABLE PROCESSING EQUIPMENT, FOR CRUSHING AND SCREENING WILL BE USED ON SITE AND WILL BE LOCATED CLOSE TO THE PIT FACE AT START UP. IN ADDITION TO PROCESSING, SITE ACTIVITIES WILL INCLUDE STRIPPING AND REHABILITATION. OPERATIONAL EQUIPMENT MAY INCLUDE TRUCKS, LOADERS, EXCAVATOR, BACKHOES, BULLDOZERS, SCRAPPERS, CONVEYORS AND OTHER RELATED EQUIPMENT. PROCESSING EQUIPMENT, STOCKERS AND PRODUCT STOCKPILES WILL NOT EXCEED ±15 METRES IN HEIGHT AND WILL BE LOCATED CLOSE TO PIT FACES.
 - OFFICE/STORAGE BUILDING AND/OR SCALE/SCALEHOUSE MAY BE CONSTRUCTED WHERE SHOWN.
 - EQUIPMENT, SCRAP AND MACHINERY ASSOCIATED WITH THE EXTRACTION OPERATIONS WILL BE REMOVED UPON COMPLETION OF EXTRACTION.
- HYDROGEOLOGICAL INFORMATION**
8. THE WATER TABLE ELEVATION VARIES ACROSS THIS LICENCE FROM APPROXIMATELY ± 275.5 TO ± 279.5m ABOVE SEA LEVEL (A.S.L.), BASED ON THE DECEMBER 2020 HYDROGEOLOGICAL REPORT (SEE ABOVE). REFER TO SECTIONS 3 OF 4.
 - SURFACE DRAINAGE WILL BE DIRECTED TO LOW AREAS FOR WATER TO INFILTRATE INTO THE GRANULAR MATERIALS ON THE PIT FLOOR. THERE WILL BE NO OFF-SITE DITCHING/DISCHARGE.
- NOISE MITIGATION INFORMATION**
10. HOURS OF OPERATION:
SITE PREPARATION AND REHABILITATION: 07:00-19:00 WEEKDAYS; 07:00 - NOON SATURDAYS
EXCAVATION AND PROCESSING: 07:00-19:00 WEEKDAYS; 07:00 - NOON SATURDAYS
SHIPPING: 07:00-19:00 WEEKDAYS; 07:00 - NOON SATURDAYS
- AIR QUALITY INFORMATION**
11. WATER OR CALCIUM CHLORIDE WILL BE APPLIED TO INTERNAL HAUL ROADS AND PROCESSING AREAS AS OFTEN AS REQUIRED TO MITIGATE DUST.
- SITE MANAGEMENT INFORMATION**
- MAINTENANCE/PROTECTION OF VEGETATION INFORMATION**
12. EXISTING VEGETATION WITHIN THE LICENCED AREA SHALL BE MAINTAINED IN A HEALTHY VIGOROUS GROWING CONDITION UNTIL SEQUENTIAL STRIPPING BEGINS OR UNTIL THE REHABILITATION IS COMPLETE. ANY VEGETATION PLANTED AS PART OF SITE IMPROVEMENTS OR PROGRESSIVE AND FINAL REHABILITATION WILL ALSO BE MAINTAINED IN A HEALTHY, VIGOROUS GROWING CONDITION.
- FENCING INFORMATION**
13. BOUNDARIES OF THE AREA TO BE LICENCED THAT ARE PRESENTLY FENCED ARE SHOWN ON DRAWING 1 OF 4 EXISTING FEATURES. PRIOR TO ANY STRIPPING OR PREPARATION, FENCING ON THE LICENCED BOUNDARIES WILL BE UPGRADED TO 1.2m HIGH POST AND WIRE TO COMPLY WITH THE AGGREGATE RESOURCES ACT WHERE REQUIRED.
 - 1.2m HIGH, HIGHLY VISIBLE MARKER POSTS SHALL BE USED TO DEMARCATATE LICENCE CORNERS WHEN AGRICULTURAL ACTIVITY PERMITS.
- TOPSOIL/SUBSOIL/OVERBURDEN STORAGE INFORMATION**
14. TOPSOIL AND OVERBURDEN SHALL BE STRIPPED AND STORED SEPARATELY IN BERMS WHERE SHOWN AND STOCKPILES ON PIT FLOOR CLOSE TO EXTRACTION FACE.
- BERM INFORMATION**
15. BERMS SHALL BE A MINIMUM OF ±2.5 METRES ABOVE THE EXISTING GRADE, OR AS SPECIFIED IN HGC ENGINEERING NOISE ASSESSMENT REPORT DATED DECEMBER 2020 AND SHOWN ON OPS PLAN. BERMS SHALL NOT EXCEED 2:1. REFER TO TYPICAL BERM CROSS SECTION ON DRAWING 3 OF 4 DETAILS AND SECTIONS. ALL BERMS SHALL BE SEEDED (USING GRASS/ LEGUME MIXTURE, SEE REHABILITATION PLAN, NOTE #7) IMMEDIATELY UPON COMPLETION TO MINIMIZE NOISE, DUST AND EROSION.
 - ON COMPLETION OF THE BERMS, EXCESS ON-SITE OVERBURDEN WILL BE USED TO PROGRESSIVELY BACKFILL AND REHABILITATE THE SITE. TOPSOIL CAN BE TEMPORARILY STOCKPILED ON THE PIT FLOOR.
- SCRAP STORAGE INFORMATION**
17. ALL 'SCRAP' USED MACHINERY AND STUMPS GENERATED THROUGH THE OPERATIONS WITHIN THIS LICENCE WILL BE STORED IN THE SCALE AREA. A MINIMUM OF 30m FROM THE BOUNDARY OF THE SITE AND NOT WITHIN 30m OF ANY BODY OF WATER AND SHALL BE DISPOSED OF ON AN ONGOING BASIS. STUMPS/ WOODY MATERIAL MAY BE CHIPPED AND USED FOR SOIL ENHANCEMENT DURING PROGRESSIVE REHABILITATION. TREES WILL BE HARVESTED AND SOLD AS LUMBER OR UTILIZED FOR FIREWOOD AND/OR THEIR BEST USE. UPON COMPLETION OF EXTRACTION, ALL SCRAP EQUIPMENT AND USED MACHINERY SHALL BE REMOVED.
- PETROLEUM STORAGE INFORMATION**
18. FUEL, OIL, RADIATOR AND HYDRAULIC FLUID, AND OTHER CHEMICALS NEEDED FOR THE MAINTENANCE AND FUNCTIONING OF ON-SITE AGGREGATE PROCESSING EQUIPMENT SHALL BE APPROPRIATELY STORED IN ABOVE-GROUND CONTAINERS AND SHALL MEET THE REQUIREMENTS OF THE GASOLINE HANDLING ACT, AS AMENDED, AND THE GASOLINE HANDLING CODE AND REGULATIONS, AS AMENDED BY THE TECHNICAL STANDARDS AND SAFETY ACT (TSSA) AND LIQUID FUELS HANDLING CODE, AND IN ACCORDANCE WITH THE MINISTRY OF THE ENVIRONMENT, CONSERVATION, AND PARKS CHEMICAL STORAGE GUIDELINES. ALL REFUELING SHALL BE WITHIN A CONTAINMENT PAD. ALL SPILLS TO THE ENVIRONMENT MUST BE REPORTED TO THE SPILLS ACTION CENTRE OF MECP. ANY SPILL SHALL BE REMOVED AND DISPOSED OF AT AN APPROPRIATE MECP APPROVED FACILITY.



SITE PLAN OVERRIDE (VARIANCE)

THE FOLLOWING CONDITIONS ILLUSTRATED ON THESE PLANS VARY FROM THE OF THE PROVINCIAL STANDARDS MADE UNDER THE AGGREGATE RESOURCES ACT

ITEM	SECTION
SETBACK REDUCTION TO 0m ON EAST AND NORTH BOUNDARIES, PROPERTY IS OWNED BY LICENSEE.	5.10
NO FENCING ALONG NORTH BOUNDARY. DENSE WOODLOT PROHIBITS ACCESS AND TO PERMIT CONTINUED AGRICULTURAL USE AND ALONG EAST BOUNDARY TO PERMIT CONTINUED AGRICULTURAL USE.	5.1

NO.	DATE	REVISIONS	OWNER	HA	MNR	NO.	DATE	REVISIONS	OWNER	HA	MNR

Pre Licence Review Site Plan Amendments



Project Name
5026367 Ontario Ltd. ELLIOT PIT

LICENCEE SIGNATURE *[Signature]*
LICENCE No. PART LOT 16, CONCESSION 2
MUNICIPALITY OF THAMES CENTRE (FORMERLY TOWNSHIP OF WEST MISSOURI), COUNTY OF MIDDLESEX

Scale 1:2000	North	Stamp
Drawing Status SUBMITTED TO MNR FOR APPROVAL		
Drawn SB	Checked MH	Issue Date JAN 2021
Drawing Title OPERATIONS PLAN		Project Number 20-22
		Drawing Number 2 OF 4

PHASE B
PHASE A NOTES

1. COMPLETE EXTRACTION OF AREA 1.
2. BEGIN STRIPPING TOPSOIL AND OVERBURDEN SEPARATELY FROM AREA 2 AND USE TO BEGIN REHABILITATION OF AREA 1. EXCESS MATERIAL MAY BE STORED IN STORAGE BERMS AS SHOWN.
3. BEGIN EXTRACTION OF AREA 2 IN A WESTERLY DIRECTION.
4. COMPLETE REHABILITATION OF AREA 1 TO AGRICULTURAL AFTER-USE.

PHASE C (NOT SHOWN)
PHASE A NOTES

1. COMPLETE EXTRACTION OF AREA 2. AND BEGIN REHABILITATION OF AREA 2.
2. REMOVE SCALE AND SCALE HOUSE AND ALL SCRAP AND EQUIPMENT AND COMPLETE REHABILITATION OF AREA 2.
3. COMPLETE REHABILITATION OF ALL REMAINING AREAS (INCLUDING ALL INTERNAL HAUL ROADS) USING TOPSOIL AND OVERBURDEN STOCKPILED IN BERMS.
4. RETURN SITE TO AGRICULTURE.

