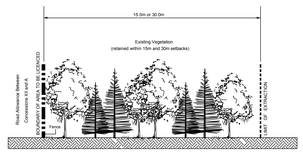
Operational Plan

2 of 4

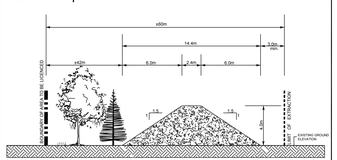
Typical Setback Detail (15m and 30m) No Berm Required



Existing Vegetation within Setbacks will be Retained where Possible.

N.T.S.

Setback Detail - Phase 2 Berm Required

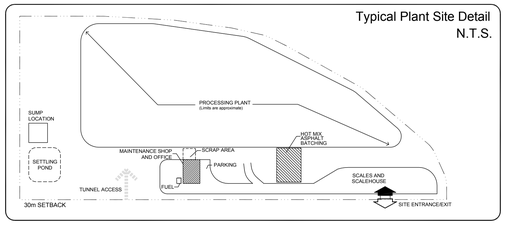


NOTE: Retain existing vegetation wherever possible and complete plantings at base of the berm in accordance with the Natural Environment/Visual Mitigation Detail.

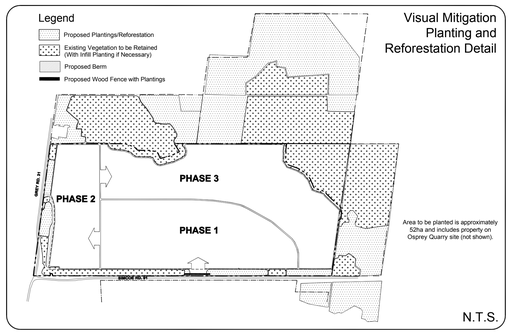
N.T.S.

Typical Plant Site Detail

N.T.S.

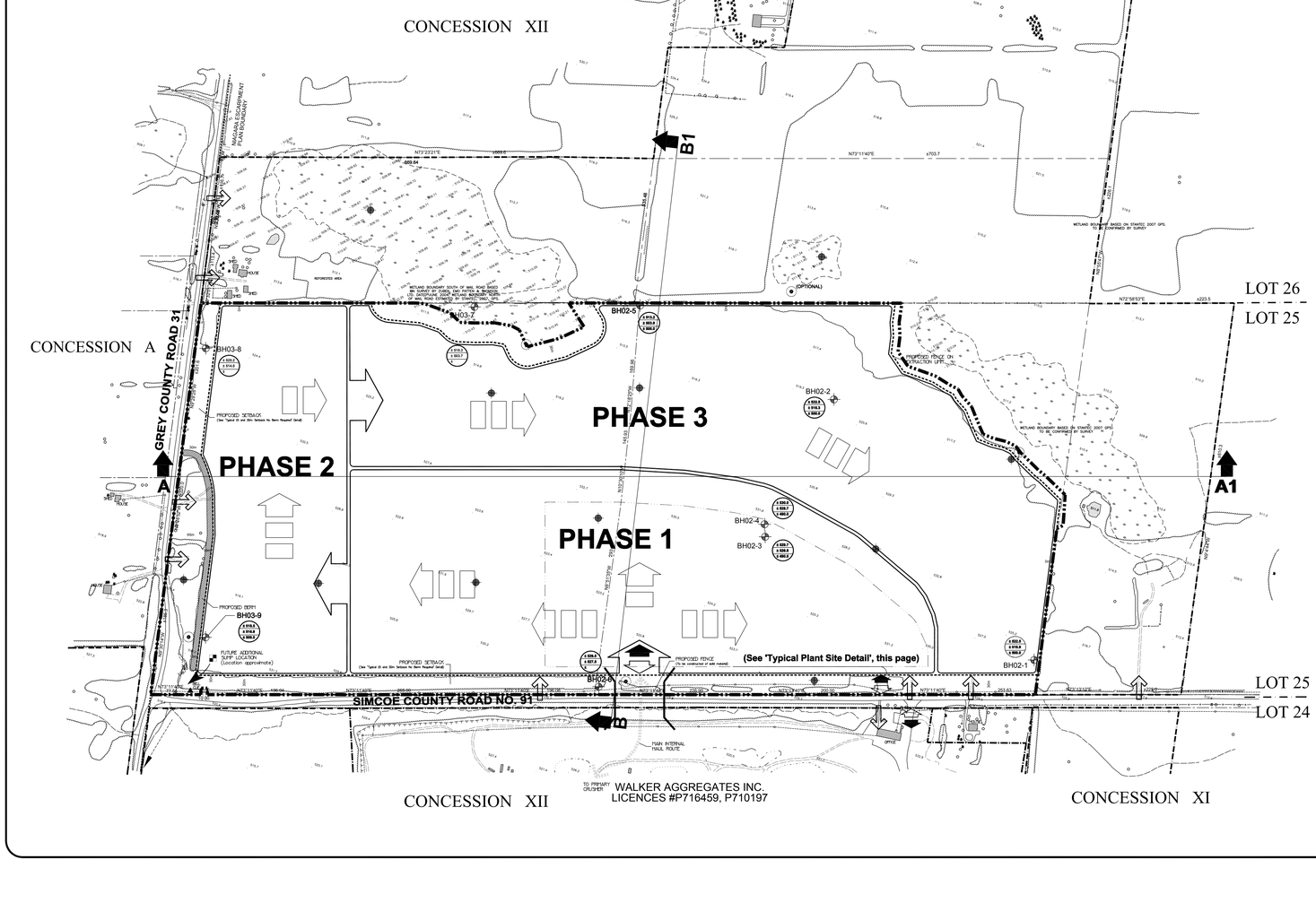


Legend — Visual Mitigation Planting and Reforestation Detail



Area to be planted is approximately 52ha and includes property on Osprey Quarry site (not shown).

N.T.S.



GENERAL NOTES (cont'd):

24. (cont.)
    i) SATURDAY
    - STRIPPING, DRILLING, ASPHALT PLANT OPERATION BLASTING, OPERATIONS: 7:00 AM TO 3:00 PM
    - QUARRYING 6:00 AM TO 3:00 PM
    - MAINTENANCE 24 HOURS A DAY

    ii) SUNDAY
    - CLOSED EXCEPT FOR MAINTENANCE

    OUTSIDE THESE HOURS, ANY ACTIVITY CAN ONLY TAKE PLACE ON AN EMERGENCY BASIS OR AT THE REQUEST OF THE MINISTRY OF TRANSPORTATION, THE COUNTY OF SIMCOE OR THE TOWNSHIP OF CLEARVIEW.

25. NO OPERATIONS MAY OCCUR ON STATUTORY HOLIDAYS AS DEFINED IN ACCORDANCE WITH THE EMPLOYMENT STANDARDS ACT EXCEPT THAT CANADA DAY CAN BE TAKEN AS AN ALTERNATIVE DAY. MAINTENANCE MAY OCCUR ON HOLIDAYS.

26. BLASTING COULD OCCUR DAILY IN ACCORDANCE WITH PROVINCIAL STANDARDS.

27. THE MAXIMUM TONNAGE TO BE REMOVED ANNUALLY FROM THIS SITE IS 3 MILLION TONNES, IN COMBINATION WITH LICENCES P716459 AND P710197.

28. REHABILITATION WILL BE PROGRESSIVE DURING QUARRY OPERATIONS AS SUFFICIENT AREAS BECOME AVAILABLE. OVERBURDEN FROM PHASE 1 MAY ALSO BE USED FOR THE CONSTRUCTION OF THE BERM AT THE WEST SIDE OF PHASE 2.

29. OFF SITE AGGREGATE MATERIAL REQUIRED FOR BLENDING PURPOSES MAY BE IMPORTED AND STOCKPILED IN THE PERMANENT PROCESSING PLANT AREA. STOCKPILES OF IMPORTED MATERIAL WILL NOT EXCEED 20 METRES.

30. FOR DETAILS ON PROGRESSIVE AND FINAL REHABILITATION REFER TO PLAN 3 OF 4 ENTITLED "PROGRESSIVE REHABILITATION AND FINAL REHABILITATION PLAN".

TECHNICAL REPORTS (REPORTS PREPARED IN SUPPORT OF THE CLASS A LICENCE APPLICATION CATEGORY 2).

1. GEOLOGICAL REPORT AND LEVEL 2 HYDROGEOLOGICAL ASSESSMENT, DUNTROON QUARRY EXPANSION, SEPTEMBER 2005, JAGGER HIMS LIMITED
2. LEVEL 2 HYDROGEOLOGICAL ASSESSMENT ADDENDUM AND CUMULATIVE IMPACT ASSESSMENT, OCTOBER 2007, JAGGER HIMS LIMITED
3. GROUNDWATER AND SURFACE WATER MONITORING PROGRAM ADDENDUM, OCTOBER 2007, JAGGER HIMS LIMITED
4. ESCARPMENT BROW INTERPRETATION, MAY 2007, JAGGER HIMS LIMITED
5. NATURAL ENVIRONMENT LEVEL 2 DUNTROON QUARRY EXPANSION, SEPTEMBER 2005, STANTEC CONSULTING LIMITED
6. LEVEL 2 NATURAL ENVIRONMENT REPORT TECHNICAL REPORT ADDENDUM, RESPONSE TO AGENCY COMMENTS AND CUMULATIVE EFFECTS ASSESSMENT, OCTOBER 2007, STANTEC CONSULTING LIMITED
7. AQUATIC BASELINE REPORT, SEPTEMBER 27, 2007, STANTEC CONSULTING LIMITED
8. VISUAL IMPACT ASSESSMENT FOR DUNTROON QUARRY EXPANSION, SEPTEMBER 2005, STANTEC CONSULTING LIMITED
9. VISUAL IMPACT ASSESSMENT REPORT ADDENDUM, SEPTEMBER 2007, STANTEC CONSULTING LIMITED
10. SOUND IMPACT ANALYSIS, DUNTROON QUARRY EXPANSION, OCTOBER 3, 2007, VALCOUSTICS CANADA LIMITED
11. BLASTING IMPACT ASSESSMENT, DUNTROON QUARRY EXPANSION, SEPTEMBER 2005, GOLDER ASSOCIATES
12. TRAFFIC IMPACT STUDY, DUNTROON QUARRY EXPANSION, SEPTEMBER 2005, C.C. TATHAM
13. ARCHAEOLOGICAL RESOURCE ASSESSMENT, DUNTROON QUARRY EXPANSION, SEPTEMBER 2005, ARCHAEOLOGICAL ASSESSMENTS LIMITED
14. CUMULATIVE IMPACT ASSESSMENT, APRIL 10, 2007, AND STAGE 2 ARCHAEOLOGICAL ASSESSMENT OF OUTSTANDING SECTION, MAY 2007, ARCHAEOLOGICAL ASSESSMENTS LTD.
15. CULTURAL HERITAGE CUMULATIVE IMPACT ASSESSMENT FOR DUNTROON, APRIL 10, 2007, LINTERMAN THOMAS ASSOCIATES
16. TRAFFIC IMPACT ASSESSMENT, DUNTROON QUARRY EXPANSION, OCTOBER 2007, ITRANS CONSULTING

CONSULTANTS RECOMMENDATIONS (NOT INCLUDED IN PREVIOUS NOTES OF SITE PLAN)

HYDROGEOLOGY

1. PUMPING OF WATER THAT ACCUMULATES IN THE EXCAVATION AS A RESULT OF DIRECT PRECIPITATION, SURFACE WATER RUNOFF, AS WELL AS SOME GROUNDWATER INFLOW, WILL BE REQUIRED IN ORDER TO MAINTAIN DRY WORKING CONDITIONS ACROSS THE QUARRY FLOOR.
2. WATER THAT ACCUMULATES ON THE QUARRY FLOOR WILL BE CHANNELED INTO THE MAIN SUMP FOR RE-USE. EXCESS WATER WILL BE REMOVED BY PUMPING, PRIOR TO PUMPING OFF-SITE THE OWNER SHALL OBTAIN A DISCHARGE PERMIT PERSUANT TO THE OWRA WHICH SHALL ENSURE APPROPRIATE WATER QUALITY DISCHARGE STANDARDS.
3. WATER ACCUMULATED IN THE AREAS NOTED ABOVE WILL BE USED FOR AGGREGATE PROCESSING OPERATIONS, DUST CONTROL, ROAD CLEANING, IRRIGATION OF LANDSCAPED AREAS AND TO MITIGATE OFF SITE IMPACTS.
4. AGGREGATE PROCESS WATER WILL BE DIRECTED TO A SETTLING POND SYSTEM FOR REMOVAL OF FINES AND CLEAN WATER WILL BE RETURNED TO THE SUMP OR OTHER SOURCE WATER PONDS FOR REUSE.
5. THE SUMP IS TO BE LOCATED WITHIN THE PHASE 3 EXTRACTION AREA (SEE PLANT SITE DETAIL) ONCE THE QUARRY FLOOR HAS REACHED A 500 METRE ELEVATION AND WILL REMAIN IN THAT GENERAL LOCATION THROUGH THE LIFE OF THE QUARRY. THE SUMP IS TO BE SIZED TO PROVIDE SUFFICIENT STORAGE OF WATER PRODUCED IN WASHING OPERATIONS FOR THE LIFE OF THE QUARRY. I.E. APPROXIMATELY 50 METRES BY 50 METRES AT THE MINIMUM DEPTH OF 5 METRES). THE SUMP WILL BE DEEPENED AND ENLARGED AS NECESSARY TO ACCOMMODATE THE FINAL EXTRACTION (DOWN TO ELEVATION 490 METRES ASL) NEAR THE PHASE 1 AREA.
6. IMPLEMENT THE GROUNDWATER AND SURFACE WATER MONITORING PROGRAM AS DESCRIBED IN THE GEOLOGICAL REPORT AND LEVEL 2 HYDROGEOLOGICAL ASSESSMENT. PROPOSED ADDITIONAL WELL MONITORS ARE TO BE INSTALLED PRIOR TO EXTRACTION.
7. IMPLEMENT MITIGATION MEASURES TO PROTECT OFF SITE FEATURES AS FOLLOWS:
   A) DISCHARGE OF EXCESS WATER FROM THE QUARRY INTO THE SURFACE WATER SYSTEM AT THE FOLLOWING LOCATIONS AS GENERALLY SHOWN ON THIS PAGE AS REQUIRED TO MAINTAIN SEASONAL CONDITIONS:
      i) THE SURFACE WATER COURSE IN THE SOUTHWEST CORNER OF THE EXPANSION AREA. A SECONDARY SUMP OR STORAGE POND MAY BE DEVELOPED ON THE QUARRY FLOOR IN THE SOUTHWEST CORNER TO FACILITATE DISCHARGE AT THIS LOCATION.
      ii) THE WETLAND AREA ADJACENT TO THE NORTHWEST CORNER OF THE EXTRACTION AREA;
      iii) THE WETLAND AND ASSOCIATED SURFACE WATER SYSTEM ADJACENT TO THE NORTHEAST CORNER OF THE EXTRACTION AREA IN ORDER TO PROMOTE INFILTRATION RECHARGE INTO THE ROCK.

      THE QUARRY DEWATERING DISCHARGE LOCATIONS ARE SHOWN CONCEPTUALLY ON THIS PAGE AND ARE CONSIDERED TO BE WITHIN THE LICENCE AREA. NO EXTRACTION IS PERMITTED BEYOND THE LIMITS OF THE LICENCE BOUNDARY ILLUSTRATED ON THIS PAGE.
   B) IF REQUIRED, GROUNDWATER RECHARGE WELLS SHALL BE INCORPORATED IN THE SETBACK ALONG THE WESTERN PERIMETER, AND IN THE BUFFER LANDS ADJACENT TO THE NORTHERN AND EASTERN LIMITS OF EXTRACTION (WITHIN LICENCE AREA). THE RECHARGE WELLS WILL PROVIDE GROUNDWATER RECHARGE INTO THE ROCK PASS AROUND THE PERIMETER OF THE QUARRY, AND THEREBY MAINTAIN SEASONAL GROUNDWATER LEVELS AND SURFACE WATER FLOW CONDITIONS. THE ACTUAL NUMBER AND LOCATION OF THE RECHARGE WELLS AND THE RECHARGE PUMPING RATE, WILL BE DETERMINED AT THE TIME OF INSTALLATION AND WILL DEPEND ON LOCAL CONDITIONS, BASED ON ONGOING MONITORING.

      GROUNDWATER RECHARGE WELLS ARE ALSO CONSIDERED TO BE WITHIN THE LICENCE AREA BEYOND THE LIMITS SHOWN ON THIS PLAN. NO EXTRACTION SHALL BE PERMITTED WITHIN THE LICENCE AREA BEYOND THE LIMITS SHOWN ON THIS PLAN.
   C) THE NEED FOR AND TIMING OF IMPLEMENTATION OF ONE OR MORE OF THE ABOVE NOTED MITIGATION MEASURES WILL BE DETERMINED BASED ON THE MAGNITUDE AND LATERAL EXTENT OF DEWATERING INFLUENCE ZONE OF THE QUARRY THAT DEVELOPS AS EXTRACTION PROCEEDS THROUGH THE VARIOUS PHASES OF EXTRACTION AS CONFIRMED THROUGH ON-SITE MONITORING.
8. PRIOR TO EXTRACTION OF PHASE 1, LONG-TERM ADAPTIVE MONITORING PLANS WILL BE DEVELOPED FOR BOTH WATER AND ADJACENT NATURAL FEATURES WITH INTEGRATION BETWEEN THE PROGRAMS AS REQUIRED, IN CONSULTATION WITH REVIEW AGENCIES.

NATURAL ENVIRONMENT

1. PRIOR TO COMPLETION OF LAKE FILLING, A BEAVER RIVER FISH HABITAT ENHANCEMENT PROGRAM WILL BE DEVELOPED AND IMPLEMENTED.
2. PRIOR TO AND DURING EXTRACTION OF PHASE 3, UNDERTAKE WOODLAND ENHANCEMENT IN ACCORDANCE WITH VISUAL MITIGATION PLANTING AND REFORESTATION DETAIL. THE ECOLOGICALLY-BASED REFORESTATION PROGRAM SHOULD FORM A PART OF THE ADAPTIVE MANAGEMENT PLAN, INCORPORATING THE MOST EFFECTIVE METHODS OF QUICKLY RE-ESTABLISHING FUNCTIONAL FOREST ATTRIBUTES SUCH AS CANOPY COVER AND HORIZONTAL AND VERTICAL DIVERSITY.
3. PRIOR TO AND DURING EXTRACTION OF PHASE 3, COMPLETE AN ENHANCEMENT PROGRAM FOR HARTS TONGUE FERN AND BUTTERNUT TREE SPECIES ON LANDS ADJACENT TO THE PROPOSED EXTRACTION AREA.
4. PRIOR TO EXTRACTION OF PHASE 1, LONG-TERM ADAPTIVE MANAGEMENT PLAN WILL BE DEVELOPED FOR BOTH WATER AND FOR ADJACENT NATURAL FEATURES WITH INTEGRATION BETWEEN THE PROGRAMS AS REQUIRED, IN CONSULTATION WITH REVIEW AGENCIES. THE ADAPTIVE MANAGEMENT PLAN WILL INCLUDE PROVISIONS FOR WATER QUALITY, QUANTITY, TEMPERATURE AND MONITORING TO ENSURE THE ECOLOGICAL FUNCTION OF WETLANDS, SPRINGS AND STREAMS ARE MAINTAINED.
5. NO EXTRACTION WILL TAKE PLACE UNTIL THE MINISTRY OF NATURAL RESOURCES HAS CONFIRMED THAT IT IS SATISFIED WITH THE APP. THIS SHALL NOT PREVENT SITE PREPARATION PRIOR TO THE PERMIT BEING SATISFIED WITH THE APP.
6. IN THE EVENT ONE OR MORE OF THE MONITORED PARAMETER VALUES OF THE APP REACHES THE YELLOW ZONE (THE SEASONAL EARLY WARNING VALUE), THE LICENCEE SHALL NOTIFY THE MINISTRY OF NATURAL RESOURCES (MNR) WITHIN 72 HOURS OF THE LICENCEE'S KNOWLEDGE THAT THE YELLOW ZONE HAS BEEN REACHED AND WILL PROPHYLT:
   A) INVESTIGATE AND ASSESS EXISTING CIRCUMSTANCES;
   B) DETERMINE THE CAUSE FOR THE YELLOW ZONE OCCURRENCE;
   C) PROVIDE A RECOMMENDED ACTION PLAN;
   D) IF THE CAUSE IS QUARRY RELATED, TAKE APPROPRIATE ACTION TO ADDRESS THE CAUSE; AND,
   E) NOTIFY THE MINISTRY OF NATURAL RESOURCES AS TO THE RESULTS OF THE CORRECTIVE ACTION.
7. IN THE EVENT ONE OR MORE OF THE MONITORED PARAMETER VALUES OF THE APP REACHES THE RED ZONE (SEASONAL ACTION THRESHOLD TRIGGER VALUE), THE LICENCEE SHALL NOTIFY MNR WITHIN 24 HOURS OF THE LICENCEE'S KNOWLEDGE THAT THE RED ZONE HAS BEEN REACHED AND WILL PROPHYLT:
   A) INVESTIGATE AND ASSESS EXISTING CIRCUMSTANCES;
   B) DETERMINE THE CAUSE FOR THE RED ZONE OCCURRENCE;
   C) PROVIDE A FURTHER RECOMMENDED ACTION PLAN;
   D) IF THE CAUSE IS QUARRY RELATED, TAKE APPROPRIATE ACTION TO ADDRESS THE CAUSE; AND,
   E) NOTIFY THE MINISTRY OF NATURAL RESOURCES AS TO THE RESULTS OF THE CORRECTIVE ACTION.
8. IN THE EVENT A SEASONAL ACTION THRESHOLD VALUE AS IDENTIFIED IN THE APP REMAINS IN THE RED ZONE FOR A PERIOD OF ONE WEEK FROM THE NOTIFICATION THE LICENCEE SHALL PROVIDE THE MNR AND PRIVATE A DESCRIPTION AS TO HOW OPERATIONS HAVE BEEN ADAPTED OR SUSPENDED AS THE CASE MAY BE) TO ADDRESS THE ISSUE.
9. OPERATIONS CAN ONLY RESUME IN THE AREA WHICH EXPERIENCED RED ZONE CONDITIONS AS DEFINED IN THE APP, WHEN ALL MEASURED PARAMETERS HAVE RETURNED TO THE YELLOW ZONE, FOR A MINIMUM PERIOD OF ONE WEEK AND EVIDENCE OF YELLOW ZONE CONDITIONS IS PROVIDED TO THE MINISTRY OF NATURAL RESOURCES.
10. MAINTAIN SETBACKS FROM WETLANDS (MINIMUM 30m) AS SHOWN ON THE OPERATIONAL PLAN AND IMPLEMENT HYDROGEOLOGICAL MITIGATION MEASURES AS REQUIRED TO MAINTAIN SEASONAL WATER LEVELS AS DETERMINED THROUGH ON-SITE MONITORING. WETLAND BUFFER SHALL CONSIST OF NATURALIZED VEGETATION AND ONLY DISTURBANCES TO BE PERMITTED ARE THE CREATION, OPERATION AND MAINTENANCE OF WATER BALANCE MITIGATION MEASURES.
11. WITHIN 3 YEARS OF PLANTING THE TEST PLOTS, THE DATA WILL BE USED TO MODIFY THE FOREST RESTORATION PLAN FOR THE DUNTROON QUARRY TO ENSURE THAT THE MOST SUCCESSFUL AND EFFICIENT MEANS OF RESTORING HARDWOOD FOREST ALONG WITH THE FAUNA ECOLOGICAL FUNCTIONS OF A MATURE FOREST.

NOISE

1. NO EXTRACTION WILL TAKE PLACE WITHIN 150 METRES OF THE RECEPTORS LOCATED AT 7746558 GREY ROAD 31.
2. ROCK DRILLING OPERATIONS AND ASPHALT PLANT OPERATIONS SHALL BE LIMITED TO THE HOURS OF OPERATION SET OUT IN GENERAL NOTE 24.
3. UTILIZE AN ALTERNATIVE ROCK DRILL IN PHASE 2, TO MEET M.O.E. NOISE GUIDELINE LIMITS. THE ROCK DRILL SHALL HAVE A SOUND EMISSION LEVEL OF NO GREATER THAN 80dBA AT A 30m DISTANCE. ALTERNATIVELY, INTERIM AND/OR PORTABLE SOUND BARRIERS CAN BE USED TO REDUCE OFF-SITE SOUND EXPOSURE FROM THE ROCK DRILL. THE PORTABLE OR INTERIM BARRIER SHOULD BE 4.5m IN HEIGHT AND NO MORE THAN 10m FROM THE DRILL.
4. CONSTRUCT A 4 METRE PERIPHERY BERM WEST OF PHASE 2 AS SHOWN PRIOR TO EXTRACTION IN PHASE 1 WEST OF TUNNEL.

BLASTING

1. MONITOR ALL BLASTS TO ENSURE COMPLIANCE WITH M.O.E. GUIDELINES.
2. WHEN BLASTING WITHIN 350 METRES OF A RECEPTOR, THE MAXIMUM EXPLOSIVE WEIGHT DETONATED PER DELAY MAY BE ADJUSTED BY ONE OF THE FOLLOWING THREE OPTIONS TO ENSURE COMPLIANCE WITH MINISTRY OF ENVIRONMENT GUIDELINE:
   A) REDUCING THE BORE HOLE DIAMETER WITH A CORRESPONDING REDUCTION IN THE DRILL PATTERN;
   B) INTRODUCE DECK CHARGES WITHIN EACH BORE HOLE;
   C) REDUCE THE BORE HOLE LENGTH (DEPTH) BY REDUCING THE BENCH HEIGHT.

ARCHAEOLOGICAL/CULTURAL HERITAGE

1. THAT THE FORMER PILLAR BURN LOCATED ON SITE BE DOCUMENTED AND PHOTOGRAPHED PRIOR TO REMOVAL TO MEET MINISTRY OF CULTURE GUIDELINES AND PROVIDED TO THE COUNTY OF SIMCOE.
2. IN THE EVENT THAT DEEPLY BURIED ARCHEOLOGICAL DEPOSITS ARE DISCOVERED IN THE COURSE OF ACTIVITY, THE OFFICE OF THE REGIONAL ARCHAEOLOGIST, CULTURAL PROGRAMS BRANCH, MINISTRY OF CITIZENSHIP, CULTURE AND RECREATION (416) 314-7080 AND THE REGISTRAR OF THE CEMETERIES REGULATION UNIT OF THE MINISTRY OF CONSUMER AND COMMERCIAL RELATIONS (416) 326-8392, AS WELL AS THE APPROPRIATE MUNICIPAL POLICE AND THE LOCAL MEDICAL OFFICER OF HEALTH.

TRAFFIC

1. CONSTRUCT MAIN ENTRANCE/EXIT AT LOCATION SHOWN ON OPERATIONS PLAN.

VISUAL

1. COMPLETE PLANTINGS IN ACCORDANCE WITH VISUAL MITIGATION PLANTING AND REFORESTATION DETAIL.
2. WOOD FENCING WITH PLANTINGS SHOULD BE INSTALLED ABOVE THE PROPOSED TUNNEL WHERE THERE IS INSUFFICIENT SPACE FOR BERMING/PLANTING FOR SCREENING PURPOSES. ALL FENCING SHALL BE CONSTRUCTED OF NATURAL MATERIALS AND FINISHED IN NATURAL COLOURS TO BLEND INTO THE SURROUNDING LANDSCAPE.
3. ANY PLANTINGS NOTED ON THIS PLAN TO MITIGATE VISUAL IMPACT WILL BE INSTALLED AS EARLY AS POSSIBLE TO ENSURE SUFFICIENT TIME FOR OPTIMUM PLANT GROWTH AND ESTABLISHMENT AND SHALL BE COMPLETED PRIOR TO EXTRACTION OF ADJACENT LANDS.

VARIATIONS TO OPERATIONAL STANDARDS

AS PROVIDED BY SECTION 12.2.25 THE FOLLOWING STANDARDS HAVE BEEN VARIED

5.2 NO GATE WILL BE REQUIRED AT THE ENTRANCE AND EXIT ASSOCIATED WITH THE TUNNEL AS SHOWN ON THE SEQUENCE OF OPERATIONS DIAGRAM.

5.10 EXCAVATION WILL BE ALLOWED WITHIN 30 METRES OF A WATERBODY AS FOLLOWS AND AS SHOWN ON THIS PLAN. THE WETLAND NORTH OF PHASE 3 AND THE SURFACE WATER FEATURE ADJACENT TO PHASE 2.

5.10 EXCAVATION WILL BE ALLOWED WITHIN THE 30 METRE REGULATORY SETBACK ALONG SIMCOE ROAD 91 FOR PURPOSES OF THE TUNNEL TO THE EXISTING OPERATION. OVERBURDEN REMOVAL MAY ALSO OCCUR ALONG THE NORTHERN, WESTERN AND EASTERN LIMITS IN ASSOCIATION WITH THE INSTALLATION OF THE RECHARGE SYSTEM IF REQUIRED. IN ADDITION, THERE SHALL BE A 0m SETBACK FROM THE EASTERN LICENCE LIMIT AND THE NORTHERN LICENCE LIMIT WHERE SETBACK OF NATURAL FEATURES FROM THE LICENCE LIMIT IS NOT POSSIBLE, THIS IS IN RECOGNITION OF WALKER AGGREGATES INC.'S OWNERSHIP OF THE LANDS TO THE EAST AND THE NORTH ACQUIRED FOR BUFFER PURPOSES.

5.16 EXCESS TOPSOIL AND OVERBURDEN MAY BE REMOVED FROM THIS SITE AND TRANSPORTED TO THE ADJACENT LICENCE P716459 AND P710197.

5.19 PORTIONS OF THE FINAL EXCAVATION PHASE WILL BE PERMITTED TO A VERTICAL FACE FOR AESTHETIC PURPOSES AS SHOWN ON PAGE 3 OF 4 OF THESE PLANS.

5.20 LIMITED AMOUNTS OF AGGREGATE AND / OR OVERBURDEN MAY BE REMOVED FROM THE SETBACKS TO FACILITATE THE CONSTRUCTION OF THE RECHARGE MITIGATION SYSTEM. THE ONLY REMOVAL OF AGGREGATE WITHIN THE SETBACK IS THAT WHICH IS REQUIRED FOR THE RECHARGE MITIGATION AND NOTHING FURTHER.

PRESCRIBED CONDITIONS

5.1 DUST WILL BE MITIGATED ON SITE.

5.2 WATER OR ANOTHER PROVINCIALLY APPROVED DUST SUPPRESSANT WILL BE APPLIED TO INTERNAL HAUL ROADS AND PROCESSING AREAS AS OFTEN AS REQUIRED TO MITIGATE DUST.

5.3 PROCESSING EQUIPMENT WILL BE EQUIPPED WITH DUST SUPPRESSANT OR COLLECTION DEVICES, WHERE THE EQUIPMENT CREATES DUST AND IS BEING OPERATED WITHIN 300 METRES OF THE RECEPTOR.

5.4 ANY RECOMMENDATIONS AND / OR RECOMMENDED MONITORING PROGRAM DERIVED IN THE TECHNICAL REPORT WILL BE DESIGNED ON THE SITE PLAN AND ALL RECORDS WILL BE RETAINED BY THE LICENCEE AND MADE AVAILABLE UPON REQUEST BY THE MINISTRY OF NATURAL RESOURCES FOR AUDIT PURPOSES.

5.5 A SPILLS CONTINGENCY PROGRAM WILL BE DEVELOPED PRIOR TO SITE PREPARATION.

5.6 FUEL STORAGE TANKS WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE GASOLINE HANDLING ACT.

5.7 IF REQUIRED, A CERTIFICATE OF APPROVAL WILL BE OBTAINED FOR THE DISCHARGE SYSTEM SHOULD WATER BE DISCHARGED OFF SITE.

5.8 IF REQUIRED, A CERTIFICATE OF APPROVAL WILL BE OBTAINED FOR PROCESSING EQUIPMENT TO BE USED ON SITE.

5.9 IF REQUIRED, A PERMIT TO TAKE WATER WILL BE OBTAINED FOR UTILIZING GROUND AND / OR SURFACE WATER.

5.10 THE LICENCEE WILL MONITOR ALL BLASTS, GROUND VIBRATIONS AND BLASTS OVERPRESSURE AND WILL OPERATE TO ENSURE COMPLIANCE WITH CURRENT PROVINCIAL GUIDELINES.

5.11 BLASTING WILL NOT OCCUR ON A HOLIDAY OR BETWEEN THE HOURS OF 6:00 PM ON ANY DAY AND 8:00 AM ON THE FOLLOWING DAY.

5.12 ALL BLAST MONITORING REPORTS MUST BE RETAINED BY THE LICENCEE AND MADE AVAILABLE UPON REQUEST BY THE MINISTRY OF NATURAL RESOURCES FOR AUDIT PURPOSES.

Legend

- Proposed Licenced Boundary
- Existing Licenced Boundary — EXISTING DUNTROON QUARRY LICENCED REFERENCE #P716459, #P710197
- Limit of Extraction — ALL SETBACKS DRAWN TO SCALE. EXCEPT ON SETBACKS AND SHOWN LABELLED DISTANCES
- Walker Aggregates Inc. Lands
- Wetland Boundary (Surveyed & Estimated)
- Plant Site — SEE PLANT SITE DETAIL THIS PAGE
- Existing Spot Elevation (520.6)
- Building/Structure — LOCATION AND USE FOR BUILDINGS ON SITE AND WITHIN 150m ARE SHOWN ON THIS PLAN
- Field/Service Entrance — MAINTAINED AND REGULATED BY A GATE WHICH IS LOCKED WHEN NOT IN USE. THIS THE QUARRY IS NOT IN OPERATION UNLESS OTHERWISE NOTED ON THIS PLAN.
- Existing Vegetation
- Entrance/Exit (OPERATIONAL) — MAINTAINED AND REGULATED BY A GATE WHICH IS LOCKED WHEN NOT IN USE. THIS THE QUARRY IS NOT IN OPERATION UNLESS OTHERWISE NOTED ON THIS PLAN.
- Existing Fence — POST AND WIRE FARM FENCE UNLESS OTHERWISE NOTED
- Direction of Excavation
- Proposed Berms
- Excavation Face — SEE GENERAL NOTE 1 PAGE 2 OF 4 FOR DETAILED DESCRIPTION.
- Proposed Fence — POST AND WIRE FARM FENCE UNLESS OTHERWISE NOTED
- Main Internal Haul Road
- Proposed Elevations (in metres) — EXISTING CONTOUR; TOP OF ROCK; MAXIMUM DEPTH OF EXTRACTION
- BH02-6 Existing Well Monitor Location — INFORMATION FROM GEOLOGICAL REPORT AND LEVEL 2 HYDROGEOLOGICAL ASSESSMENT BY JAGGER HIMS, SEPT. 2005
- Proposed Additional Well Monitor Location
- Quarrying Dewatering Discharge Locations — WITHIN LICENCE BUT NO EXTRACTION PERMITTED

GENERAL NOTES:

1. EXTRACTION WITHIN LOT 25, CON.12 WILL COMMENCE PRIOR TO COMPLETION OF QUARRYING AND FINAL REHABILITATION WITHIN EXISTING QUARRY IN LOT 24, CON. 12 (LICENCES P716459 AND P710197). OPERATIONS WILL PROCEED SIMULTANEOUSLY IN BOTH THE EXISTING AND EXPANSION AREAS.
2. THE LICENCE AREA IS 76.69 HA AND THE EXTRACTION AREA IS 68.31 HA.
3. THE SITE PLANS DEPICT A SCHEMATIC SEQUENCE FOR DEVELOPMENT OF THE SITE BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION. EXTRACTION ELEVATIONS ARE APPROXIMATE. LIMITED VARIATIONS DURING EXCAVATIONS AND REHABILITATION OF THE SITE WILL BE PERMITTED IN ORDER TO ADJUST TO ANY VARIABLE RESOURCE AND MARKET CONDITIONS OR HYDROLOGIC REQUIREMENTS. ANY MAJOR VARIATION OR DEVIATION FROM THE SITE PLANS WILL ONLY BE PERMITTED BY AMENDMENT.
4. SETBACK LIMIT FROM ALL MUNICIPAL ROAD ALLOWANCES IS A MINIMUM OF 30 METRES. AREAS ALONG SETBACKS WILL BE BACKFILLED WITH OVERBURDEN AND REHABILITATED NO STEEPER THAN 2:1, EXCEPT FOR AREAS OF EXPOSED VERTICAL FACES AS SHOWN ON PAGE 3 OF 4. SLOPES WILL BE SEEDED AS SOON AS POSSIBLE AFTER FINAL GRADING TO CONTROL WIND BLOWN DUST AND EROSION.
5. NO ROADS SHALL BE CONSTRUCTED WITHIN THE SETBACK AREAS EXCEPT AS A FARM ACCESS AND / OR A TEMPORARY ACCESS FOR STRIPPING OF EXTRACTION AREAS, REHABILITATION OR BERMING PURPOSES. A MINOR ACCESS ROAD WILL ALSO BE PERMITTED IN THE SETBACK AREA TO ACCESS MITIGATION AND MONITORING STATIONS.
6. TOPSOIL, SUBSOIL, OVERBURDEN AND AGGREGATE STOCKPILES SHALL BE LOCATED WITHIN THE EXTRACTION AREA AND NOT WITHIN 30 METRES OF THE LICENCE BOUNDARY. THE HEIGHT OF STOCKPILES SHALL NOT EXCEED 30 METRES IN HEIGHT.
7. TOPSOIL SUBSOIL AND OVERBURDEN WILL BE STRIPPED, STORED AND REPLACED SEPARATELY WHEREVER THERE ARE DISTINGUISHABLE LAYERS AND SUFFICIENT THICKNESS TO ALLOW HANDLING IN THIS MANNER. IF REQUIRED, TOPSOIL SUBSOIL AND OVERBURDEN MAY BE TRANSPORTED TO THE LICENCE'S P716459 AND P710197 AND USED IMMEDIATELY FOR REHABILITATION.
8. QUARRYING OF THE AMABEL FORMATION WILL BE UNDERTAKEN IN UP TO THREE LIFTS TO A MAXIMUM DEPTH OF 39 METRES.
9. FENCING WILL BE COMPLETED PRIOR TO ANY DISTURBANCE ASSOCIATED WITH THE SITE PREPARATION. FENCING WILL BE COMPLETED IN ACCORDANCE WITH THE OPERATIONAL DIAGRAM AS SHOWN ON THIS PAGE. EXISTING FENCES AND BUILDINGS WILL BE DEMOLISHED PRIOR TO EXTRACTION WITHIN PHASE WHERE THEY ARE LOCATED.
10. PRIOR TO AND DURING INITIAL PHASES OF EXTRACTION, ADDITIONAL TREE PLANTING / TRANSPLANTING WILL BE UNDERTAKEN WITHIN THE SETBACKS WHERE THERE IS NO EXISTING VEGETATION AS SHOWN AND DESCRIBED ON THE NATURAL ENVIRONMENTAL / VISUAL MITIGATION DETAIL.
11. ALL SCRAP AND USED MACHINERY GENERATED THROUGH THE OPERATIONS WITHIN THIS LICENCE WILL BE STORED IN THE PROCESSING AREA AS SHOWN. A MINIMUM OF 30m FROM THE BOUNDARY OF THE SITE AND WILL BE DISPOSED OF ON AN ONGOING BASIS. TIMBER RESOURCES AND STUMPS REMOVED DURING SITE PREPARATION WILL BE SALVAGED AS SAW LOGS/POSTS AND/OR WOOD WILL MULCHED FOR FUTURE USE IN REHABILITATION OR RETAINED FOR USE IN REHABILITATED HABITAT STRUCTURES WHERE POSSIBLE.
12. AS SOON AS IN PRACTICAL FOLLOWING BERM CONSTRUCTION, BERMS WILL BE SEEDED WITH APPROPRIATE GRASS / LEGUME MIXTURE TO CONTROL WIND BLOWN DUST AND EROSION FROM OCCURRING.
13. DURING THE INITIAL STAGE OF DEVELOPING PHASE 3, AN UNDERPASS WILL BE CREATED UNDERNEATH SIMCOE ROAD 91, SUBJECT TO DESIGN APPROVAL BY COUNTY OF SIMCOE. THIS UNDERPASS WILL PERMIT TRANSPORT OF EXTRACTED MATERIAL FROM PHASE 3 TO AREA TO THE EXISTING PROCESSING PLANT WITHIN LICENCE P716459 AND PERMIT TRANSPORT OF PROCESSED AGGREGATE AND RECYCLED MATERIAL BACK TO THE MARKET. IN ADDITION, THE UNDERPASS WILL BE USED TO TRANSPORT EXCAVATED MATERIAL FROM PHASE 1 TO THE PROCESSING PLANT W