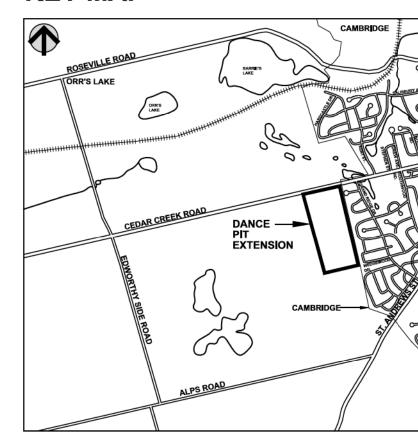


KEY MAP



EXISTING FEATURES NOTES

GENERAL SITE PLAN INFORMATION

1. THIS SITE PLAN CONSISTS OF 5 DRAWINGS AND MUST BE READ COLLECTIVELY.

2. ALL MEASUREMENTS SHOWN ON THIS SITE PLAN ARE IN METRES. LICENCE INFORMATION

3. THIS SITE PLAN IS PREPARED FOR SUBMISSION TO THE MINISTRY OF NATURAL RESOURCES AND AN FORESTRY UNDER THE AGGREGATE RESOURCES ACT FOR A CATEGORY 3 - CLASS 'A' LICENCE, PIT ABOVE THE WATER TABLE.

4. APPLICANT: ST. MARYS CEMENT INC. (CANADA) 55 INDUSTRIAL STREET

TORONTO, ON, M4G 3W9

5. TOTAL AREA TO BE LICENCED: TOTAL AREA TO BE EXTRACTED: TOTAL AREA TO BE REHABILITATED:

BASE INFORMATION

6. TOPOGRAPHIC INFORMATION WAS OBTAINED FROM EXISTING FEATURES PLAN (SHEET 1 OF 3) OF CEDAR STREET PIT BY PLANNING INITIATIVES LTD. DATED OCTOBER 1991 AND FIRST BASE **SOLUTIONS, JANUARY 1, 2017.**

THE SITE WAS FIELD CHECKED BY HARRINGTON McAVAN LTD., MAY 2, 2016.

ZONING BY-LAW NUMBER 150-13, MAP 1, DATED AUGUST 12, 2013 AND THE TOWNSHIP OF NORTH DUMFRIES, ZONING MAP - NORTH CENTRAL TOWNSHIP, JULY 2019.

HYDROGEOLOGICAL INFORMATION

8. HYDROGEOLOGICAL INFORMATION INCLUDING GROUNDWATER ELEVATION WAS OBTAINED FROM REPORT BY GOLDER ASSOCIATES LTD., DATED APRIL 2021.

9. THE WATER TABLE ELEVATION WITHIN THESE PROPERTIES IS ESTIMATED TO BE 307.2 - 309.3m ABOVE SEA (M.A.S.L.) BASED ON THE HYDROGEOLOGICAL REPORT (SEE ABOVE).

- 10. HYDROGEOLOGICAL INFORMATION WAS OBTAINED FROM REPORT BY GOLDER ASSOCIATES LTD. DATED APRIL 2021 (REFER TO SHEET 3 OF 5 FOR TECHNICAL RECOMMENDATIONS).
- 11. NATURAL ENVIRONMENT INFORMATION WAS OBTAINED FROM REPORT BY GOLDER ASSOCIATES LTD. DATED APRIL 2021 (REFER TO SHEET 3 OF 5 FOR TECHNICAL RECOMMENDATIONS).
- DATED SEPTEMBER 2017 (REFER TO SHEET 3 OF 5 FOR TECHNICAL RECOMMENDATIONS)
- 13, AIR QUALITY ASSESSMENT INFORMATION WAS OBTAINED FROM REPORT BY GOLDER ASSOCIATES
- 14, ACOUSTICAL INFORMATION WAS OBTAINED FROM NOISE REPORT BY GOLDER ASSOCIATES LTD. DATED MARCH 2021 (REFER TO SHEET 3 OF 5 FOR TECHNICAL RECOMMENDATIONS

LEGEND

| | | 120m INFOR | MATION BOUNDARY | |
|------|--------------------------|---------------------------------|---|--|
| - 11 | | BOUNDARY OF AREA TO BE LICENSED | | |
| | | BOUNDARY OF EXISTING LICENCE | | |
| | | | REGULATORY SETBACK LINE | |
| | | LIMIT OF EXTRACTION LINE | | |
| | | LOT/ CONCESSION LINE | | |
| | | PROPERTY LINE | | |
| x x | EXISTING FENCE | ● НР | EXISTING HYDRO POLE | |
| 310 | EXISTING 1m CONTOUR LINE | < | DIRECTION OF SURFACE | |
| 311 | EXISTING 1m CONTOUR LINE | ₼ BH/ | BOREHOLE LOCATION A | |
| 89~~ | EXISTING VEGETATION | ⊕ MW | NUMBER DRILLED AND MONITORING WELLS INS | |
| | EXISTING BERM | | BY GOLDER ASSOCIATE JANUARY 2016 | |
| KIK | EXISTING EXTRACTION FACE | ₽ TP | TEST PIT LOCATION AND NUMBER DUG BY APPLIC JANUARY 2016 | |
| | EXISTING STOCKPILE | A | LOCATION OF SECTION | |





TEST PIT LOCATION AND

NUMBER DUG BY APPLICANT

BOREHOLE LOCATION AND

MONITORING WELLS INSTALLED

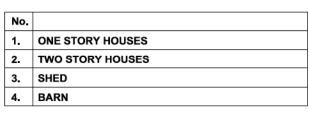
BY GOLDER ASSOCIATES LTD.

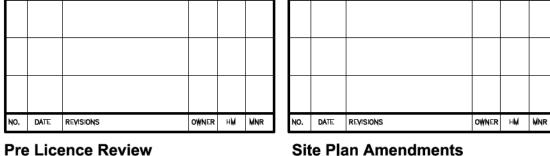
BUILDING LIST

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21.2 ha

21.2 ha





Pre Licence Review



Markham, Ontario L6B 1A Tel: 905-294-8282 Fax: 905-294-762

Project Name



St. Marys Cement Inc. (Canada) 55 Industrial Street Toronto, Ontario M4G 3W9 (416) 423-1300

DANCE PIT EXTENSION

LICENSEE SIGNATURE LICENCE No. PART LOT 14 &15, CONCESSION 10 TOWNSHIP OF NORTH DUMFRIES, REGIONAL MUNICIPALITY OF WATERLOO

Scale 1:2000 **Drawing Status ISSUED TO MNRF**

FOR APPROVAL

Drawing Title



S.B./ A.C.

EXISTING

FEATURES

PLAN

Checked G.D.H./R.M. Issue Date MAY 2021

OF 5

Project Number 12-10 **Drawing Number**

OPERATIONS NOTES

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 VARY WITH MATERIAL QUALITY, SITE HYDROLOGY AND HYDROGEOLOGY OR MARKET DEMAND. PHASES DO NOT REPRESENT ANY SPECIFIC OR EQUAL TIME PERIOD.

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 PHASING. ANY MAJOR DEVIATIONS FROM THE OPERATIONS SEQUENCE SHOWN WILL REQUIRE APPROVAL FROM MNRF.

- REFER TO DRAWING 1 OF 5, EXISTING FEATURES, FOR A DESCRIPTION OF EXISTING VEGETATION AND
- 3. SITE PLAN OVERRIDES ARE LISTED IN THE SITE PLAN OVERRIDE TABLE SHOWN ON THIS PAGE.

RESOURCE INFORMATION

RESOURCE INFORMATION IS OBTAINED FROM REPORT BY GOLDER ASSOCIATES LTD. DATED FEBRUARY 2016.

EXTRACTION/PROCESSING/HAULING INFORMATION

- 6, MAXIMUM NUMBER OF TONNES OF AGGREGATE TO BE REMOVED FROM THE SITE IN ANY CALENDAR
- EXTRACTION OF SAND AND GRAVEL ABOVE WATER TABLE WILL TAKE PLACE IN ONE TO TWO BENCHES, WITH A MAXIMUM HEIGHT OF ±8 METRES. THE GROUNDWATER TABLE ESTIMATED TO BE ± 307.2 -309.3m ABOVE SEA LEVEL (M.A.S.L.) (SEE HYDROGEOLOGICAL REPORT). EXTRACTION WILL BE BY FRONT END LOADERS AND AGGREGATE WILL BE TRANSPORTED BY TRUCK OR CONVEYOR TO THE PLANT IN ADJACENT LICENCE No. 17348 FOR FURTHER PROCESSING AND SHIPPING, REFER TO SECTIONS A-A' AND B-B' ON DRAWING 3 OF 5 FOR FURTHER DETAILS.
- EQUIPMENT TO BE USED IN THE OPERATION OF THE PIT MAY INCLUDE TRUCKS, LOADERS, EXCAVATORS, BULLDOZERS, SCRAPERS, CONVEYORS AND OTHER RELATED EQUIPMENT.
- EQUIPMENT, SCRAP AND MACHINERY ASSOCIATED WITH THE EXTRACTION OPERATIONS WILL BE REMOVED UPON COMPLETION OF EXTRACTION.

HYDROGEOLOGICAL INFORMATION

- HYDROGEOLOGICAL INFORMATION INCLUDING GROUNDWATER ELEVATION WAS OBTAINED FROM REPORT BY GOLDER ASSOCIATES LTD, DATED APRIL 2021.
- 10. THE WATER TABLE ELEVATION WITHIN THESE PROPERTIES IS ESTIMATED TO BE BETWEEN ±307.2 -309.3m ABOVE SEA LEVEL (M.A.S.L.) BASED ON THE HYDROGEOLOGICAL REPORT BY GOLDER
- 11. SURFACE DRAINAGE ON THE PIT FLOOR WILL BE DIRECTED TO LOW AREAS FOR WATER TO INFILTRATE INTO THE GRANULAR MATERIALS ON THE PIT FLOOR.

NOISE MITIGATION INFORMATION

12. HOURS OF OPERATION: SITE PREPARATION AND REHABILITATION: 07:00-18:00 WEEKDAYS: 07:00-18:00 WEEKDAYS: 07:00-18:00 WEEKDAYS;

ACTIVITIES ON SITE ON WEEKENDS SHALL BE LIMITED TO MAINTENANCE ONLY.

AIR QUALITY INFORMATION

3. 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

- 4. 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.
- , BOUNDARIES OF THE AREA TO BE LICENCED THAT ARE PRESENTLY FENCED ARE SHOWN ON DRAWING
- 1 OF 5 EXISTING FEATURES, PRIOR TO ANY STRIPPING OR PREPARATION, FENCING ON THE LICENCED BOUNDARIES WILL BE UPGRADED TO 1.2m HIGH POST AND WIRE FENCE TO COMPLY WITH THE AGGREGATE RESOURCES ACT WHERE REQUIRED (EXCEPT WHERE SITE PLAN OVERRIDES ARE NOTED). HIGHLY VISIBLE AND SEPARATELY DISTINGUISHABLE 1.2m HIGH PAINTED MARKER POSTS WILL BE INSTALLED ALONG THE THE WEST SHARED BOUNDARY.
- SILT FENCE SHALL BE INSTALLED AT THE OUTSIDE TOE OF ALL BERMS AS THEY ARE CONSTRUCTED. ALL FENCING AND MARKER POSTS SHALL BE MAINTAINED.

TOPSOIL AND OVERBURDEN SHALL BE STRIPPED AND STORED SEPARATELY IN BERMS AND STOCKPILES, AS SHOWN. TOPSOIL BERMS SHALL BE GRADED TO STABLE SLOPES AND SEEDED WITH A GRASS/LEGUME MIXTURE TO PREVENT EROSION AND MINIMIZE DUST

BERMS SHALL CREATE AN EFFECTIVE VISUAL OR ACOUSTICAL BARRIER TO A MINIMUM OF ±2.5 METRES ABOVE THE EXISTING GRADE. 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.

ON COMPLETION OF THE BERMS, EXCESS ON-SITE OVERBURDEN WILL BE USED TO PROGRESSIVELY BACKFILL AND REHABILITATE THE SITE.

SCRAP STORAGE INFORMATION

18. ALL SCRAP, USED MACHINERY AND STUMPS GENERATED THROUGH THE OPERATIONS WITHIN THIS LICENCE WILL BE REMOVED ON AN ONGOING BASIS. LOGS WILL BE UTILIZED FOR FIREWOOD OR THEIR BEST USE. STUMPS, LOGS AND OVERSIZE ROCK MAY REMAIN ON SITE FOR USE IN PROGRESSIVE REHABILITATION, UPON COMPLETION OF EXTRACTION, ALL SCRAP EQUIPMENT AND USED MACHINERY SHALL BE REMOVED.

PETROLEUM STORAGE INFORMATION

9. 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, CLIMATE, AND PARK'S CHEMICAL STORAGE GUIDELINES. ALL REFUELING SHALL BE WITHIN A CONTAINMENT PAD AND ANY SPILL SHALL BE REMOVED AND DISPOSED OF AT AN APPROPRIATE MECP APPROVED FACILITY.

IMPORTATION OF TOPSOIL INFORMATION

). IN ORDER TO MAXIMIZE RESOURCE RECOVERY, IMPORTATION OF CLEAN INERT FILL (EG. TOPSOIL AND/OR OVERBURDEN) MAY BE IMPORTED TO FACILITATE 3:1 SIDESLOPE REHABILITATION, ONLY SUFFICIENT MATERIAL TO CREATE FINAL GRADES AS SHOWN MAY BE IMPORTED.

IMPORTED MATERIAL SHALL MEET THE MINISTRY OF ENVIRONMENT, CONSERVATION AND PARKS (MECP) REGULATIONS FOR IMPORTED FILL.

SAMPLING AND TESTING OF ALL IMPORTED MATERIAL SHALL BE PERFORMED AT SOURCE PRIOR TO THE IMPORTATION OF MATERIAL ONTO THE LICENSED SITE BY A QUALIFIED PROFESSIONAL (QP) UNDER EPA. QP WILL ALSO DESIGN FILL MONITORING PROGRAM. RANDOM SAMPLING OF ALL IMPORTED MATERIAL SHALL BE CONDUCTED AT THE REQUEST OF MNRF.

THE LICENSEE SHALL KEEP DETAILED RECORDS OF THE AMOUNT OF MATERIAL BROUGHT ON SITE FOR REHABILITATION AND THE TESTING RESULTS OF ALL SAMPLES. ALL RECORDS AND TESTING RESULTS SHALL BE AVAILABLE UPON REQUEST BY MNRF OR MECP

LEGEND



120m INFORMATION BOUNDARY **BOUNDARY OF AREA TO BE LICENSED**

BOUNDARY OF EXISTING LICENCE

EXISTING BUILDING

EXISTING HYDRO POLE

DIRECTION OF TOPSOIL AND

DIRECTION OF EXTRACTION

BOREHOLE LOCATION AND

NUMBER DRILLED AND

OVERBURDEN MOVEMENT

LIMIT OF EXTRACTION LINE

REGULATORY SETBACK LINE

EXISTING VEGETATION

BERM (MIN. HEIGHT AS SHOWN) UNDISTURBED AREA

AREA STRIPPED OF TOPSOIL AND OVERBURDEN

(LOCATION IS APPROXIMATE)

EXTRACTION FACE TRANSPORTATION

EXISTING ENTRANCE/ EXIT

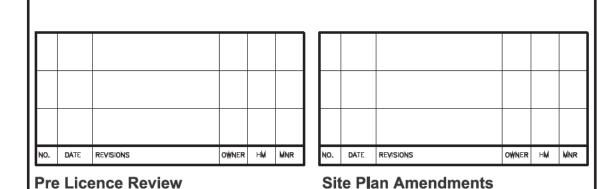
MONITORING WELLS INSTALLED BY GOLDER ASSOCIATES LTD. **JANUARY 2016** LOCATION OF SECTION

EXISTING ELEVATION PROPOSED ELEVATION

SITE PLAN OVERRIDE (VARIANCE)

THE FOLLOWING CONDITIONS ILLUSTRATED ON THESE PLANS VARY FROM THE OF THE PROVINCIAL

| ^{5,} | STANDARDS MADE UNDER THE AGGREGATE RESOURCES ACT | | | |
|---------------|--|--------|--|--|
| | ITEM | | | |
| | FENCING IS OMITTED ALONG THE ENTIRE WEST BOUNDARY, ADJACENT LICENSED LANDS UNDER SAME LICENSEE, AND ALONG THE SOUTH BOUNDARY PER AGREEMENT WITH ADJACENT LICENSEE/LANDOWNER. | 5.1 | | |
| | SETBACK IS REDUCED TO 0m ALONG WEST BOUNDARY, ADJACENT LICENSED LANDS UNDER SAME LICENSEE AND ALONG THE SOUTH BOUNDARY PER AGREEMENT WITH ADJACENT LICENSEE/LANDOWNER. | 5.10.1 | | |
| | GATE OMITTED BETWEEN THE SITE AND ADJACENT LICENCE. ADJACENT LICENSED LANDS UNDER THE SAME LICENSEE. | 5.2 | | |
| | STOCKPILES MAY BE LOCATED WITHIN 30m OF THE WEST BOUNDARY, ADJACENT PIT IS SAME LICENSEE. | 5.13.1 | | |
| | | | | |



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Project Name

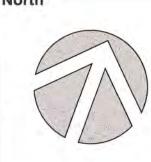


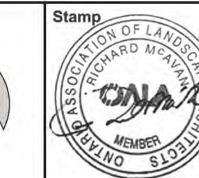
St. Marys Cement Inc. (Canada) 55 Industrial Street Toronto, Ontario M4G 3W9 (416) 423-1300

DANCE PIT EXTENSION

LICENCE No. PART LOT 14 &15, CONCESSION 10 TOWNSHIP OF NORTH DUMFRIES, REGIONAL MUNICIPALITY OF WATERLOO

Scale 1:2000 **Drawing Status** ISSUED TO MNRF FOR APPROVAL





Checked G.D.H./R.M A.C./S.B.

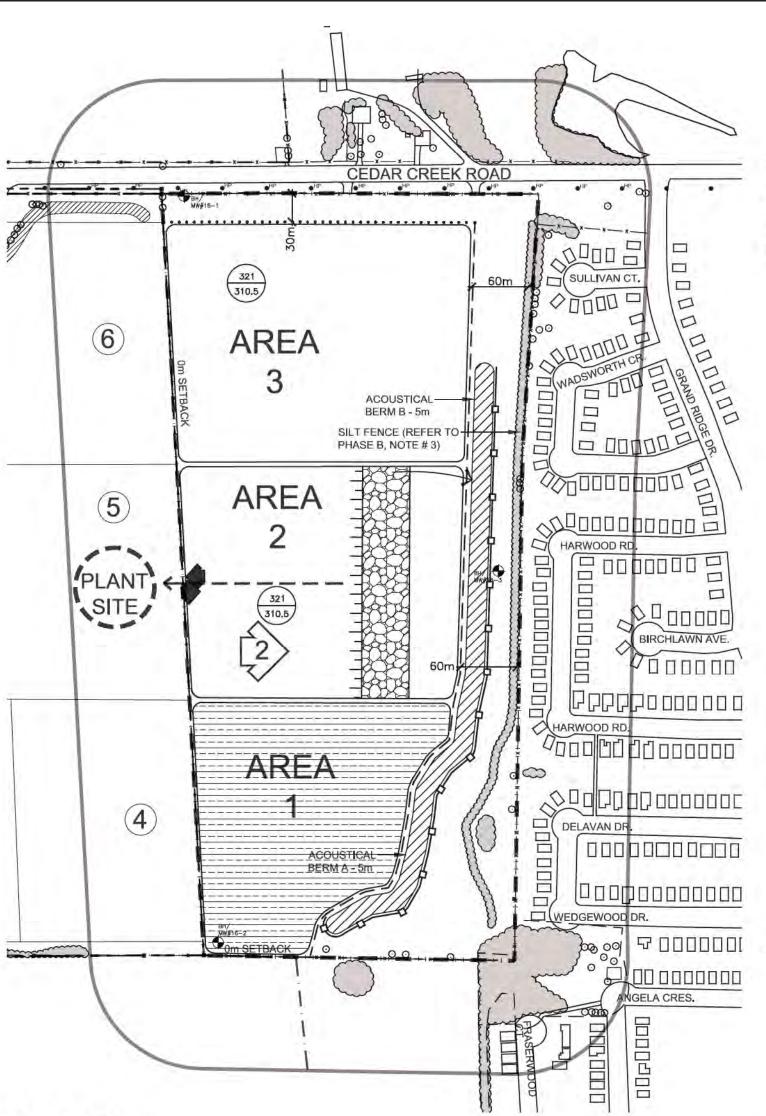
Drawing Title

Project Number

OPERATIONAL PLAN PHASE A

12-10 **Drawing Number**

Issue Date MAY 2021



PHASE B

PHASE B NOTES

- 1. COMPLETE EXTRACTION IN AREA 1.
- 2. PREPARE SITE WITHIN AREA 2 BY REMOVING ALL EXISTING TREES AND SCRUB VEGETATION LOCATED IN THE AREA TO BE EXTRACTED.
- 3. BEGIN STRIPPING TOPSOIL AND OVERBURDEN SEPARATELY FROM AREA 2 AND USE THE MATERIAL TO CONSTRUCT ACOUSTIC BERM B (EXTENSION OF BERM A) AS SHOWN, EXCESS MATERIAL SHALL BE USED TO BEGIN PROGRESSIVE REHABILITATION OF AREA 1. INSTALL SILT FENCE AS SHOWN (SEE AIR QUALITY TECHNICAL RECOMMENDATIONS, THIS PAGE).
- 4. BEGIN PROGRESSIVE REHABILITATION OF AREA 1 USING MATERIAL STOCKPILED ON PIT FLOOR.
- 5. BEGIN EXTRACTION IN AREA 2, IN DIRECTION SHOWN.
- 6. AREA 3 TO REMAIN IN AGRICULTURAL USE.

PHASE C

PHASE C NOTES 1. COMPLETE EXTRACTION IN AREA 2.

2. PREPARE SITE WITHIN AREA 3 BY REMOVING ALL EXISTING TREES AND SCRUB VEGETATION LOCATED IN THE AREA TO BE EXTRACTED.

.

310.5

BERM D - 3m SILT FENCE -

(REFER TO

AREA

AREA

PHASE C

ACOUSTIC-

LICENCE

- BEGIN STRIPPING TOPSOIL AND OVERBURDEN SEPARATELY FROM AREA 3 AND USE TO CONSTRUCT ACOUSTIC BERM C (EXTENSION OF BERM B) AND CONTINUE PROGRESSIVE REHABILITATION OF AREA 1 INSTALL SILT FENCE AS SHOWN (SEE AIR QUALITY TECHNICAL RECOMMENDATIONS, THIS PAGE).
- 4. COMPLETE PROGRESSIVE REHABILITATION OF AREA 1 AND BEGIN PROGRESSIVE REHABILITATION OF AREA 2 USING MATERIAL STOCKPILED ON PIT FLOOR.
- 5. BEGIN EXTRACTION IN AREA 3, IN DIRECTION SHOWN.

PHASE D (NOT SHOWN) **PHASE D NOTES**

1. COMPLETE EXTRACTION IN AREA 3.

- **BEGIN PROGRESSIVE REHABILITATION OF AREA 3** USING MATERIAL FROM ACOUSTIC BERM C AND D.

HARWOOD

BIRCHLAWN AVE.

ANGELA CRES.

WEDGEWOOD DR.

- 3. COMPLETE REHABILITATION OF ALL REMAINING AREAS (INCLUDING ALL INTERNAL HAUL ROADS) USING TOPSOIL AND OVERBURDEN STOCKPILED IN
- 4. RETURN SITE TO AGRICULTURE.

TECHNICAL RECOMMENDATIONS

THE FOLLOWING ARE THE TECHNICAL RECOMMENDATIONS FROM ALL OF THE EXPERTS' REPORTS AS OF APRIL 2021. ADDITIONAL RECOMMENDATIONS MAY BE INCLUDED AS A RESULT OF THE PRE-LICENCE

ARCHAEOLOGICAL ASSESSMENT - GOLDER ASSOCIATES - SEPTEMBER 2017

SHOULD DEEPLY BURIED ARCHAEOLOGICAL RESOURCES BE IDENTIFIED DURING GROUND DISTURBANCE ACTIVITY ASSOCIATED WITH FUTURE DEVELOPMENT OF THE SITE, GROUND DISTURBANCE ACTIVITIES SHOULD BE IMMEDIATELY HALTED AND THE ARCHAEOLOGY DIVISION OF THE CULTURE PROGRAMS UNIT OF

SHOULD PREVIOUSLY UNDOCUMENTED ARCHAEOLOGICAL RESOURCES BE DISCOVERED. THEY MAY BE A NEW ARCHAEOLOGICAL SITE AND THEREFORE SUBJECT TO SECTION 48 (1) OF THE ONTARIO HERITAGE ACT. THE PROPONENT OR PERSON DISCOVERING THE ARCHAEOLOGICAL RESOURCES MUST CEASE ALTERATION OF THE SITE IMMEDIATELY AND ENGAGE A LICENSED CONSULTANT ARCHAEOLOGIST TO CARRY OUT ARCHAEOLOGICAL FIELDWORK, IN COMPLIANCE WITH SECTION 48(1) OF THE ONTARIO

THE FUNERAL, BURIAL AND CREMATION SERVICES ACT, 2002, S.O. 2002, C.33, REQUIRES THAT ANY PERSON DISCOVERING OR HAVING KNOWLEDGE OF A BURIAL SITE SHALL IMMEDIATELY NOTIFY THE POLICE OR CORONER. IT IS RECOMMENDED THAT THE REGISTRAR OF CEMETERIES AT THE MINISTRY OF CONSUMER SERVICES IS ALSO IMMEDIATELY NOTIFIED.

WATER RESOURCES ASSESSMENT - GOLDER ASSOCIATES - APRIL 2021

- 1. QUARTERLY GROUNDWATER LEVEL MONITORING SHALL BE CARRIED OUT ON MONITORING WELLS BH16-1, BH16-2, AND BH16-3 TO MONITOR GROUNDWATER FLUCTUATIONS AND CONFIRM THE HIGH GROUNDWATER TABLE IN ORDER TO ENSURE MAXIMUM DEPTH OF EXTRACTION IS AT LEAST 1.5m ABOVE THE WATER TABLE ON THE PROPERTY IN ACCORDANCE WITH THE WATER RESOURCE ASSESSMENT REPORT (GOLDER, 2020).
- 2. ANNUAL WATER QUALITY MONITORING SHALL TAKE PLACE IN MONITORING WELLS BH16-1, BH16-2 AND BH16-3 DURING OPERATIONS, AND UP TO THE POINT OF LICENCE SURRENDER, FOR THE FOLLOWING PARAMETERS: GENERAL INORGANICS, METALS AND BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE
- 3. WATER LEVEL AND QUALITY MONITORING SHALL BE DOCUMENTED IN AN ANNUAL REPORT BY A QUALIFIED PROFESSIONAL AND BE AVAILABLE FOR REVIEW UPON REQUEST.

NOISE IMPACT ASSESSMENT - GOLDER ASSOCIATES - MARCH 2021

- 1. THE IDENTIFIED BERMS WILL BE INSTALLED PRIOR TO EXTRACTION IN AREAS 1, 2, AND 3: a) BERM A SHALL BE INSTALLED ALONG THE SOUTH BORDER OF AREA 1 AND ALONG THE EAST BORDER OF AREA 1 AND 2, WITH A MINIMUM HEIGHT OF 5m ABOVE EXISTING GRADE, PRIOR TO EXTRACTION IN
- b) BERM B SHALL BE INSTALLED ALONG THE EAST BORDER OF AREAS 2 AND PARTIALLY AREA 3. WITH A MINIMUM HEIGHT OF 5m ABOVE EXISTING GRADE, PRIOR TO EXTRACTION IN AREA 2. THIS IS AN EXTENSION OF BERM A.
- c) BERM C SHALL BE INSTALLED ALONG THE EAST BORDER OF AREA 3 WITH A MINIMUM HEIGHT OF 5m ABOVE EXISTING GRADE, PRIOR TO EXTRACTION AREA 3. THIS IS AN EXTENSION OF BERM B.
- d) BERM D WILL BE INSTALLED ALONG THE NORTH BORDER OF NORTH LIMIT OF EXTRACTION WITH A MINIMUM HEIGHT OF 3m ABOVE EXISTING GRADE, PRIOR TO EXTRACTION IN AREA 3.
- 2. ONCE INSTALLED, BARRIERS SHALL REMAIN THROUGHOUT THE COMPLETION OF EXTRACTION OF THE EXTENSION LANDS.
- 3. LOCAL BARRIERS, OR ACOUSTICALLY EQUIVALENT SOURCE TREATMENT REDUCING NOISE LEVELS OF THE CRUSHING/SCREENING PLANT TO 55 dBA WHEN MEASURED AT A DISTANCE OF 100 m (IN THE DIRECTION OF PORS) SHALL BE INSTALLED.
- 4. ALTERNATIVE EQUIPMENT/OPERATIONS CAN BE CONSIDERED IF ASSESSED BY AN ACOUSTICAL CONSULTANT AND SHOWN TO MEET THE APPLICABLE NOISE LIMITS.

NATURAL ENVIRONMENT REPORT - GOLDER ASSOCIATES - APRIL 2021

- 1. GROUNDWATER LEVEL MONITORING, AS DESCRIBED IN THE MAXIMUM PREDICTED WATER TABLE REPORT (GOLDER 2021), WILL BE IMPLEMENTED; AND
- 2. THE SITE WILL BE REHABILITATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE REHABILITATION PLAN RETURNING THE SITE PRIMARILY TO AGRICULTURAL USE.

AIR QUALITY IMPACT ASSESSMENT - GOLDER ASSOCIATES - DECEMBER 2019

- 1. NO PROCESSING EQUIPMENT SHALL BE LOCATED ON THE EXPANSION LAND AND/OR NO STOCKPILING OF EXTRACTED MATERIALS.
- 2. WATER, OR SIMILAR DUST SUPPRESSANT WILL BE APPLIED TO ROADS IN THE EXPANSION AREA ON OPERATIONAL DAYS, AFTER 24-HOUR PERIODS OF NO PRECIPITATION. 3. A SILT FENCE WILL BE INSTALLED AT THE TOE OF THE BERM TO BE INSTALLED IN THE EXPANSION
- 4. A SPEED LIMIT OF 25 km PER HOUR WILL BE IMPOSED ON ROADS IN THE EXPANSION AREA.

LEGEND

120m INFORMATION BOUNDARY BOUNDARY OF AREA TO BE LICENSED

BOUNDARY OF EXISTING LICENCE

LIMIT OF EXTRACTION LINE REGULATORY SETBACK LINE

> EXISTING BUILDING BERM (MIN. HEIGHT AS SHOWN)

EXISTING HYDRO POLE DIRECTION OF TOPSOIL AND

PROPOSED ELEVATION

OVERBURDEN MOVEMENT DIRECTION OF EXTRACTION

EXISTING ENTRANCE/ EXIT EXTRACTION FACE EXISTING ELEVATION AREA UNDER REHABILITATION

EXISTING VEGETATION

UNDISTURBED AREA

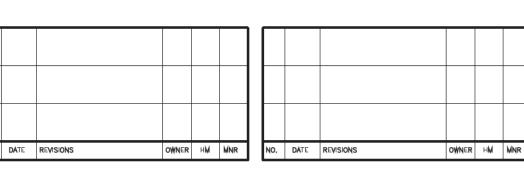
AREA STRIPPED OF TOPSOIL AND OVERBURDEN

REHABILITATION COMPLETE

TRANSPORTATION

PRODUCT





Pre Licence Review

Site Plan Amendments



Project Name



St. Marys Cement Inc. (Canada) 55 Industrial Street Toronto, Ontario M4G 3W9 (416) 423-1300

DANCE PIT EXTENSION

LICENCE No. PART LOT 14 &15, CONCESSION 10 TOWNSHIP OF NORTH DUMFRIES, REGIONAL MUNICIPALITY OF WATERLOO

North

Scale 1:4000

Drawing Status

Drawing Title

ISSUED TO MNRF FOR APPROVAL

Drawn A.C./S.B.

OPERATIONAL

PLAN

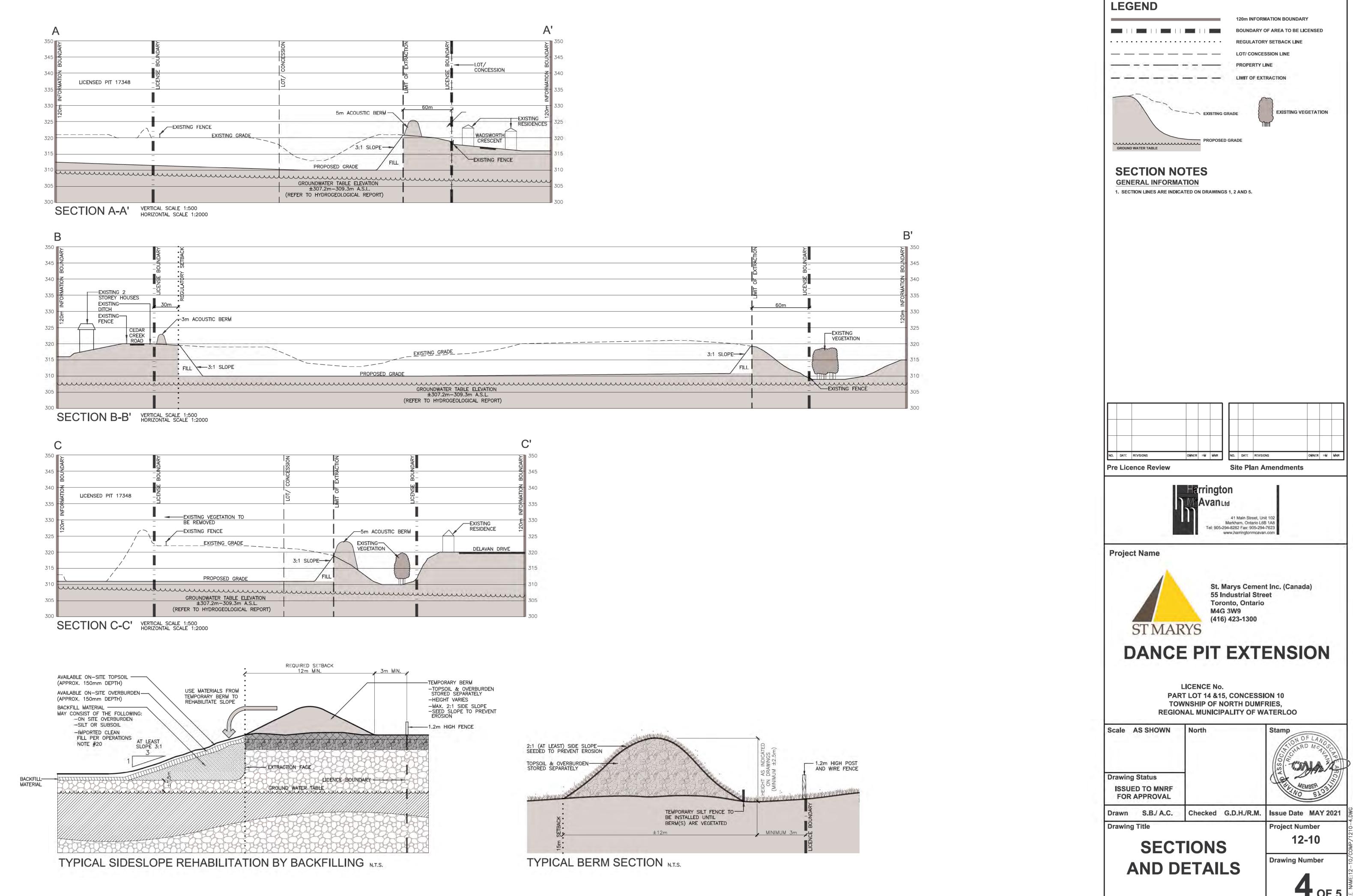
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Checked G.D.H./R.M. Issue Date MAY 2021

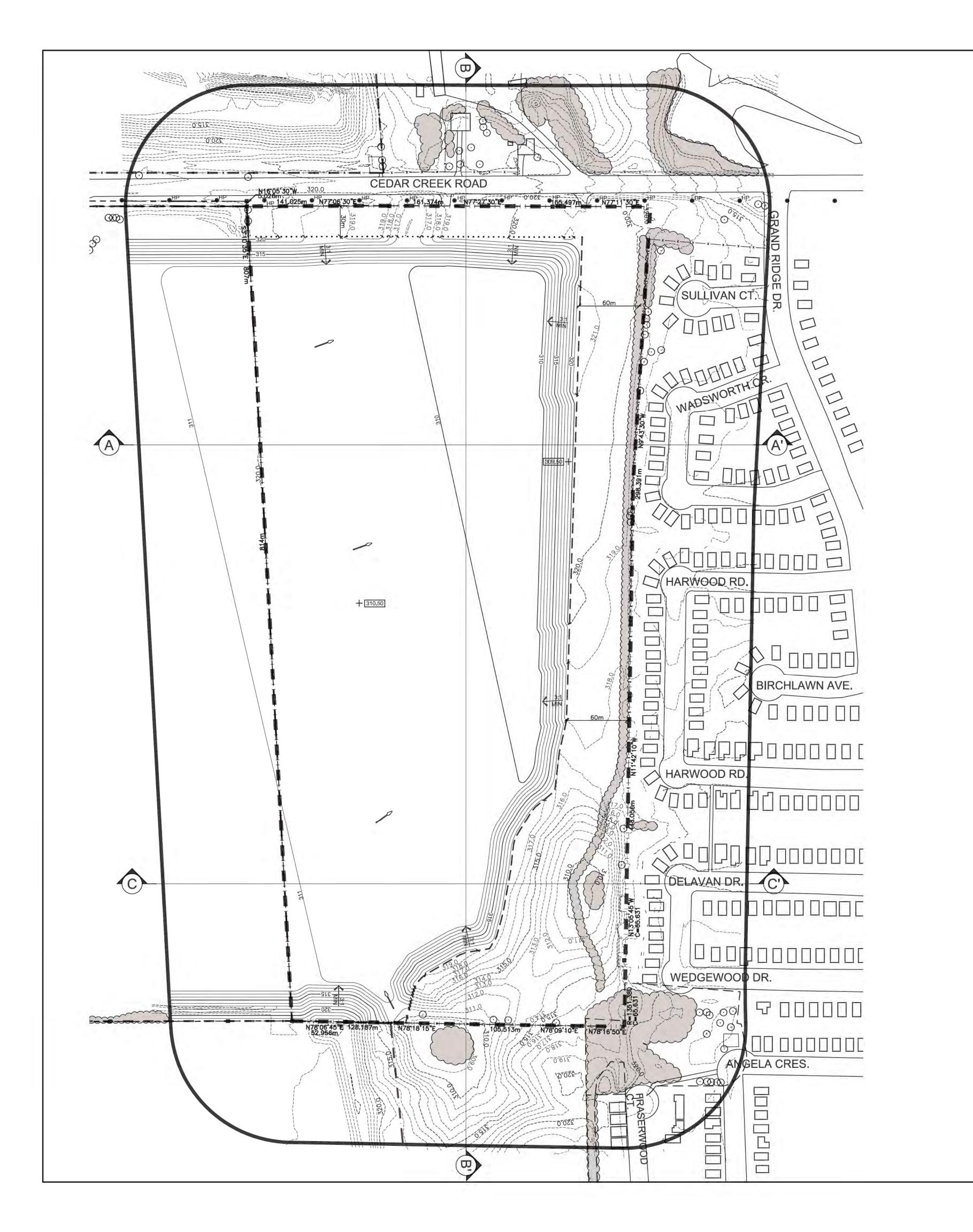
Project Number

Drawing Number

12-10



FILE NAME:12-10/COMP/1210-4.DWG PLOT DATE: MAY 11, 2021



REHABILITATION NOTES

GENERAL INFORMATION

1. REFER TO SHEET 4 OF 5 FOR SECTIONS, SHEETS 2 & 3 OF 5 FOR OPERATIONS AND PHASING DIAGRAMS AND NOTES AND SHEET 5 OF 5 FOR FINAL REHABILITATION AND NOTES.

2. PROPERTY SHALL BE REHABILITATED TO: AGRICULTURE

TOTAL REHABILITATION

HYDROGEOLOGICAL INFORMATION

3. IT IS ANTICIPATED THAT THE GROUNDWATER ELEVATION ACROSS THE SITE WILL REMAIN RELATIVELY UNCHANGED AT 307.2 - 309.3m MASL (REFER TO WATER RESOURCE ASSESSMENT REPORT BY GOLDER ASSOCIATES LTD., DATED APRIL 2021).

4. ALL SURFACE DRAINAGE WILL BE DIRECTED TO THE LOW AREAS REMAINING ON THE PIT FLOOR SO THAT THE WATER CAN INFILTRATE INTO THE SOILS.

SIDESLOPE/MEADOW REHABILITATION INFORMATION

GRADING INFORMATION

5. REHABILITATED SLOPES WITHIN THE LICENCED AREA WILL BE CONSTRUCTED AS SHOWN ON THE CROSS SECTIONS. SLOPES SHALL BE REHABILITATED BY BACKFILLING (MINIMUM 3:1) AND/OR CUT AND FILL METHOD USING AVAILABLE ON-SITE OVERBURDEN AND TOPSOIL AND/OR CLEAN INERT IMPORTED FILL PER OPERATIONAL NOTE 20, PAGE 2. SIDESLOPES MAY BE FLATTENED TO INCREASE AGRICULTURAL VIABILITY.

REFER TO DRAWING 4 OF 5, SECTIONS AND DETAILS, FOR MORE INFORMATION ON BACKFILLING AND CREATION OF REHABILITATED SIDESLOPES.

TOPSOILING INFORMATION

6. ALL AVAILABLE TOPSOIL ON THE SITE WILL REMAIN TO BE USED FOR REHABILITATION

VEGETATION STABILIZATION INFORMATION

7. TOPSOIL SHALL BE SEEDED WITH A MIXTURE OF GRASSES AND LEGUMES THAT MAY INCLUDE THE FOLLOWING AT A RATE OF APPROXIMATELY 125 kg/HA: RED CLOVER TALL FESCUE ANNUAL RYE

REHABILITATING TO AGRICULTURAL FIELDS INFORMATION

FINAL REHABILITATION INFORMATION

8. AREAS SHALL BE REHABILITATED BACK TO AGRICULTURE AS FOLLOWS: - DEEP RIPPING OF AREA TO ELIMINATE COMPACTION (WHERE REQUIRED)

- SPREADING OF APPROXIMATELY 200mm OF OVERBURDEN AND ROUGH GRADING - SPREADING OF APPROXIMATELY 200-300mm OF TOPSOIL AND FINE GRADING - SEED AREAS WITH SEED MIXTURE NOTED ABOVE. ALL VEGETATION PLANTED DURING THIS

LICENSE WILL BE MAINTAINED IN A HEALTHY, VIGOROUS GROWING CONDITION. - USE OF ACCEPTED FARMING PRACTICES TO RESTORE AND MAINTAIN VEGETATION

9. UPON COMPLETION OF EXTRACTION, ALL SCRAP AND EQUIPMENT SHALL BE REMOVED FROM THE SITE. ALL INTERNAL HAUL ROADS SHALL BE REHABILITATED ONCE NO LONGER IN USE FOR EXTRACTION RELATED ACTIVITIES.

LEGEND

21.2 HECTARES 21.2 HECTARES

120m INFORMATION BOUNDARY **BOUNDARY OF AREA TO BE LICENSED** REGULATORY SETBACK LINE LOT/ CONCESSION LINE

BOUNDARY OF AREA TO BE LICENSED

PROPERTY LINE

LIMIT OF EXTRACTION

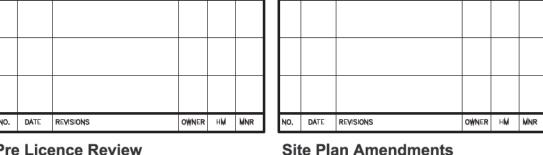
EXISTING VEGETATION ____310 __ _ EXISTING 1m CONTOUR LINE _____311____ EXISTING 1m CONTOUR LINE PROPOSED 1m CONTOUR LINE PROPOSED 1m CONTOUR LINE

DIRECTION OF SURFACE

WATER DRAINAGE **EXISTING BUILDING**

EXISTING HYDRO POLE DIRECTION OF SURFACE

WATER DRAINAGE



Pre Licence Review



Project Name



St. Marys Cement Inc. (Canada) 55 Industrial Street Toronto, Ontario M4G 3W9 (416) 423-1300

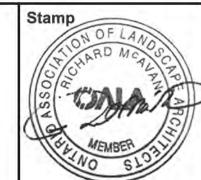
DANCE PIT EXTENSION

LICENCE No. PART LOT 14 &15, CONCESSION 10 TOWNSHIP OF NORTH DUMFRIES, REGIONAL MUNICIPALITY OF WATERLOO

Scale 1:2000

Drawing Status

ISSUED TO MNRF FOR APPROVAL



Checked G.D.H./R.M. Drawn A.C./S.B.

Drawing Title

Project Number 12-10

Drawing Number

Issue Date MAY 2021

REHABILITATION **PLAN**