Dufferin Aggregates
A division of Holcim (Canada) Inc.

Strength. Performance. Passion.

Paris Pit CAP

October 30, 2012

Agenda

- Welcome
- Minutes from Last Meeting
- Dufferin Paris Pit - General Update
- Review of Paris Pit site plan
  - Overview of license
  - Today's standards
  - Phases of extraction and rehabilitation
  - Below water table extraction
  - Improving the Paris Pit Site Plan
  - Today's standards – permits and approvals
- Next steps
- General Discussion

Dufferin Update - Communications Since Last CAP Meeting

- *Re-location of site entrance*: Ministry of Natural Resources (MNR) provided approval on October 29, 2012 for the entrance re-location. This approval confirms that the Paris Pit Site Plan meets **today's standards**.

- *Permit To Take Water* Application: Ministry of Environment (MOE) requested a site visit and we hosted them on October 17th and 25th. The purpose of these meetings was a pre-brief on the PTTW process
  - Provided confirmation on the Pit licence
  - Gained understanding of site features

The Paris Pit Licence

- The site was licensed in 1974 under the *Pits and Quarries Control Act* as a result of decision by the Ontario Municipal Board (OMB). The OMB recommended a licence be issued based on the hydrogeological technical work presented.
- In 1990 the Province replaced the *Pits and Quarries Control Act* with the *Aggregate Resources Act*. It was a requirement of all licence holders in the Province to update their site plans to the new Provincial Standards.
- The currently approved site plans for the Paris Pit meet and exceed the current Provincial Standards.

The Paris Pit Site Plan – Operating at Today's Standards

While our license was obtained in 1974, Dufferin Aggregates will operate the Paris Pit based on **TODAY'S standards.**

It is the law and regulation:

- Ontario Aggregate Resources Act:
http://www.e-laws.gov.on.ca/html/statutes/english/elaws_statutes_90a08_e.htm
- Ontario Water Resources Act:
http://www.e-laws.gov.on.ca/html/statutes/english/elaws_statutes_90o40_e.htm
- Ministry of Environment- Permit to Take Water:
http://www.ene.gov.on.ca/environment/en/industry/assessment_and_approvals/water_taking/STDPROD_075554.html
- Ministry of Environment – Environmental Compliance Approval:
http://www.ene.gov.on.ca/environment/en/industry/assessment_and_approvals/environmental_approvals/index.htm
- Ministry of Natural Resources - Endangered Species Act:
http://www.mnr.gov.on.ca/en/Business/Species/2ColumnSubPage/STEL01_131232.html
- Technical Standards and Safety Authority - Fuel Storage Standards:
http://www.tssa.org/regulated/fuels/default.asp

As any new rules and regulation take effect, we are required and we will comply with any new standards and regulation. It is the law and how we do business..

The Paris Pit Site Plans

- Current Provincial Standards specify the details to be illustrated on the site plans. A minimum of three separate drawings must illustrate:
  - **Existing Features** – details include reflection of the condition of the site at the time the licence was issued. Information includes boundary of area to be licensed, boundary of area to be extracted, topography, existing buildings and entrances, elevation of the established water table, zoning and land uses, location of existing tree cover on and within 120 m of site, existing water courses on and within 120 m of site
  - **Operations** – details include sequence and phasing of operations, details on stripping of topsoil and overburden, berm and stockpile locations and heights, location of processing plants, fuel storage, final depth of extraction, tree screens, hours of operation, internal haul roads, entrance locations, scrap storage location, equipment to be used on site
  - **Progressive and Final Rehabilitation** – details include sequence and direction of progressive rehabilitation, details on how topsoil and overburden will be used, how slopes will be established, details on importing soil, details on type of vegetation to be established, final grades
  - **Cross Sections** – details included existing grades, final grades, berm designs
- Refer to the *Aggregate Resources Act Provincial Standards* for all of the required details.

Paris Pit – MNR Approved Site Plans – Site Environment

Paris Pit – MNR Approved Site Plans – Site Environment

DRAWING INDEX

1 of 5	Site Environs
2 of 5	Existing Features
3 of 5	Operational Plan
4 of 5	Operational Plan
5 of 5	Progressive Rehabilitation and Final Rehabilitation Plan

This site plan is prepared for submission to the ministry of natural resources in conjunction with an application and in accordance with Section 6X(3) under the Aggregate Resources Act and Regulations.

Source of aerial photography: MNR 2010

Legend

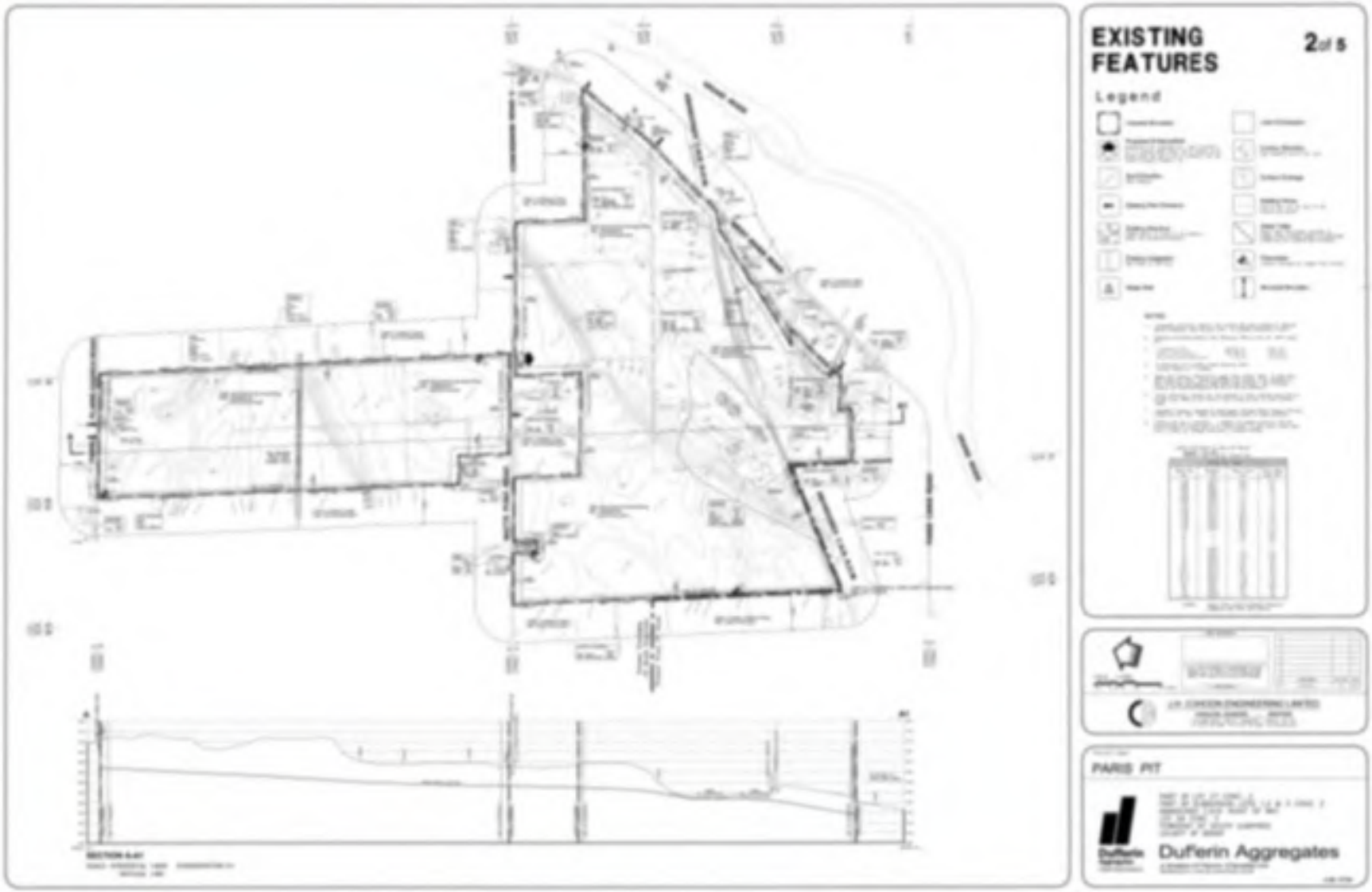
- Licensed Boundary
- Limit Of Extraction
- Proposed Entrance/Exit
  Maintained and regulated by a gate (minimum of 1.2 metres high) which will be locked at all times when the pit is not in operation and will remain through Phases 1-6
- Municipal Boundary
- Existing Field Entrance

KEY PLAN

Subject Property

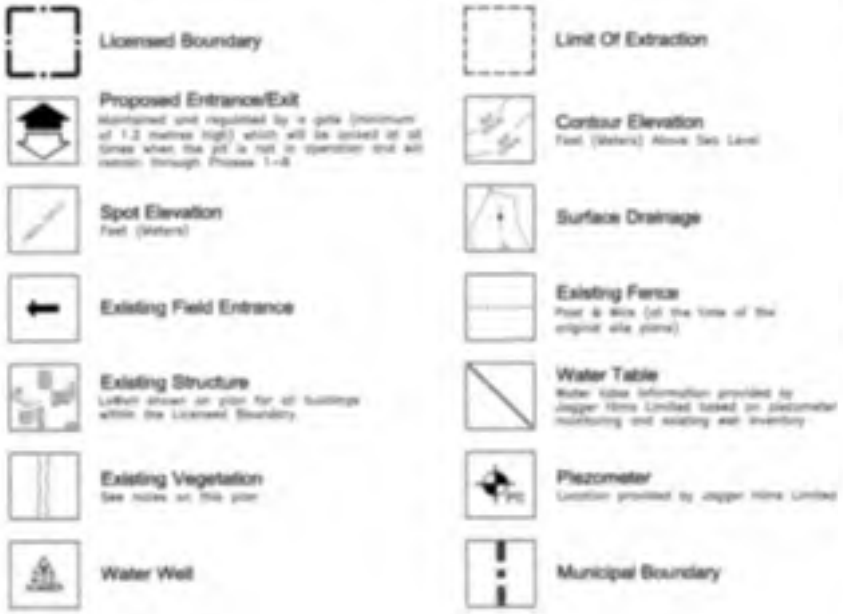
Scale 1"=1 mile

Paris Pit MNR Approved Site Plans – Existing Features



Paris Pit MNR Approved Site Plans – Existing Features

Legend



NOTES:

1. Topographic information obtained from existing site plans prepared by "Marshall Macklin Monaghan" dated February 1973. All available information is shown.
2. Boundary information obtained from "MacAulay, White & Muir Ltd." dated August 2011.
3.

Licensed Area	248.81 ha	(615 Ac)
Area of Extraction	207.68 ha	(513 Ac)
Existing Disturbed Area	1.75 ha	(4.32 Ac)

4. All dimensions are in metres unless otherwise noted. Contour interval is 5' (1.524m)
5. Water well locations obtained from Jagger Hims Limited, 1990. All wells within 300 metres are shown. Onsite piezometers will continue to be monitored for water level data and quality at least three times annually. This monitoring program will continue throughout the life of the pit operations.
6. Zoning information obtained from the township of South Dumfries Zoning By-law 40-88 (June 1988) and the Town of Paris Zoning By-law No. 2794 (October 1989).
7. Vegetation inventory completed by MacNaughton Hermsen Britton Clarkson Planning Limited July 23, 1991. Height and composition based on visual estimation.
8. Existing land use is agricultural. In addition, the eastern portion of the site (future Phase 8) may be used on an interim basis, for golf course related uses (not to include any buildings, structures or storage facilities).

Paris Pit MNR Approved Site Plans – Existing Features

UNLESS NOTED BELOW ALL WELLS ARE DRILLED
INDICATES A DUG WELL
INDICATES A HALF DUG HALF DRILLED WELL

WATER WELL TABLE

Water Well No.	Elevation (m)	Water Found (m)	Static Water Level (m)
1158	259.1	48.8	27.4
2265	262.7	14.6	9.1
1304	252.4	22.9	19.2
1578	249.9	--	--
2369	248.0	13.1	7.3
1150	231.6	15.2	1.5
1151	231.6	13.7	2.7
1152	231.6	13.7	2.7
1153	231.6	18.6	2.7
1155	245.4	20.4	12.2
1156	246.3	20.4	11.3
1157	246.0	20.4	11.6
1*	--	8.4	8.4
2*	--	12.6	12.6
3o	--	9.1	9.1
4o	--	--	--
5	246.0	--	--
P1	272.1	15.7	15.7
P2	262.8	12.8	12.8
P3	254.8	8.6	8.6
P4	251.8	15.1	15.1
4A–1	251.5	18.4	18.4
4A–2	251.5	15.2	15.2
P5–1	255.2	11.2	11.2
5–2	254.8	10.8	10.8
5A	255.1	18.7	18.7
P6	240.9	5.2	5.2
1154	231.6	7.9	1.8

SOURCE: Jagger Hims Limited Consulting Engineers registered MOE Water Well Records.

Paris Pit Site Map – Phases of Extraction

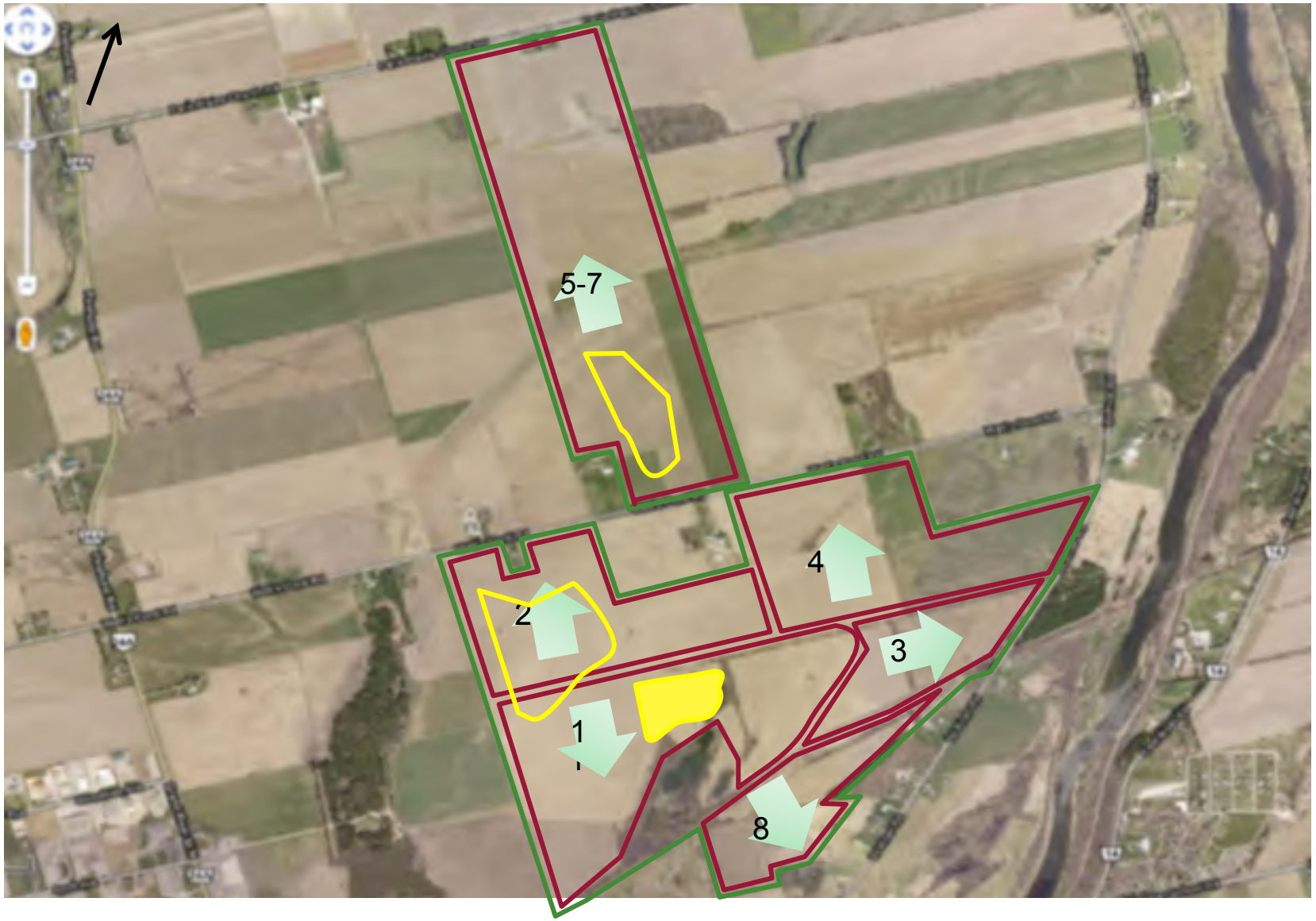
Licence Boundary

Below water Extraction

Processing Area

1

Direction of Extraction & Phasing



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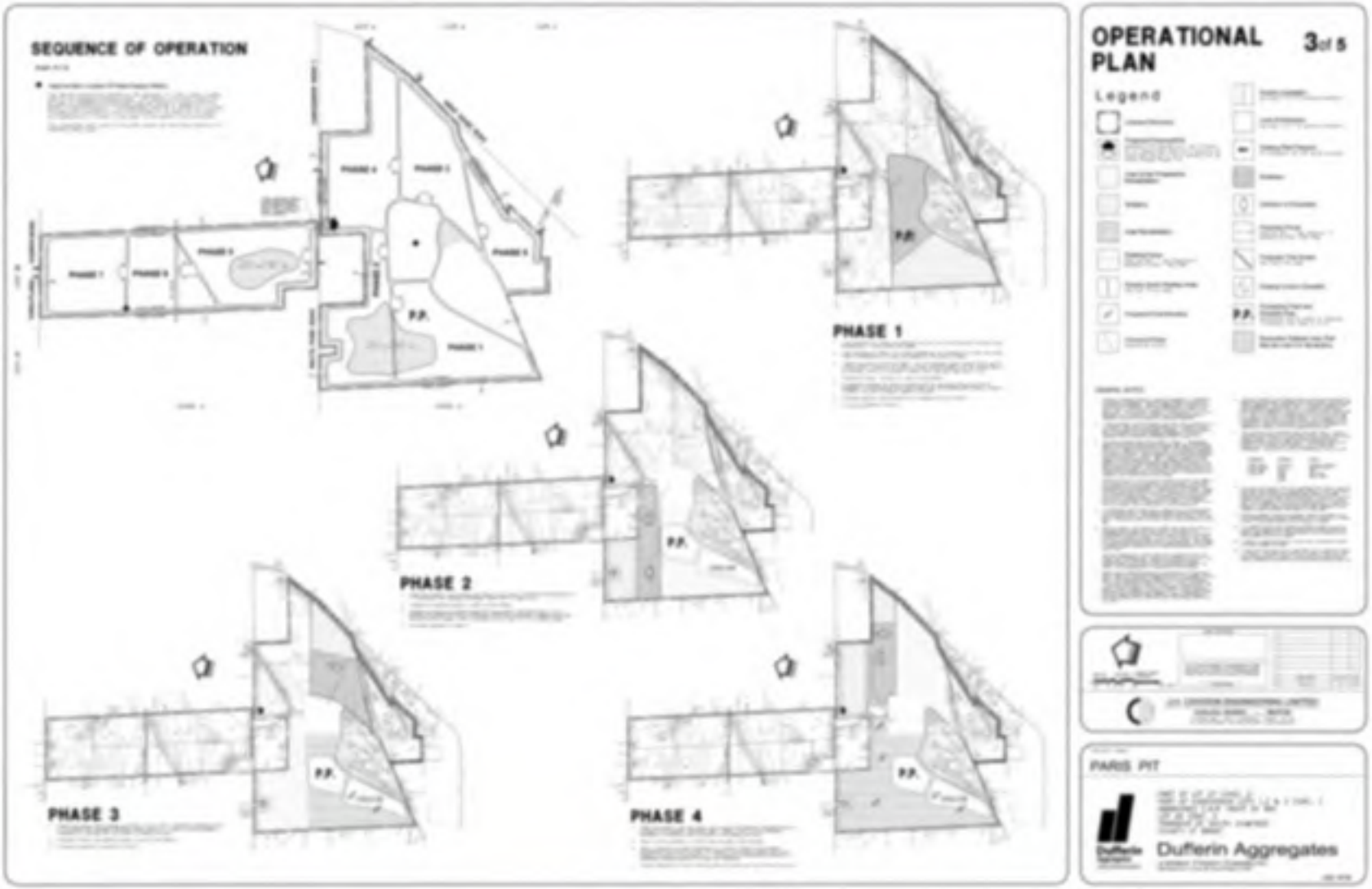
Paris Pit Site Plan – Phases of Extraction and Progressive Rehabilitation



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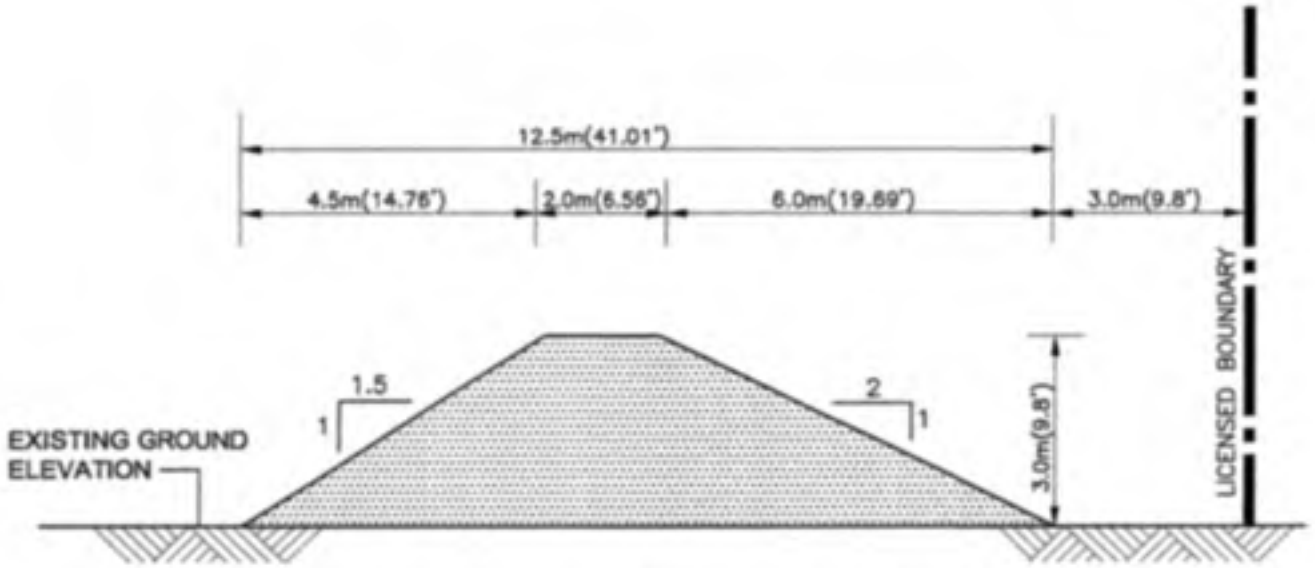
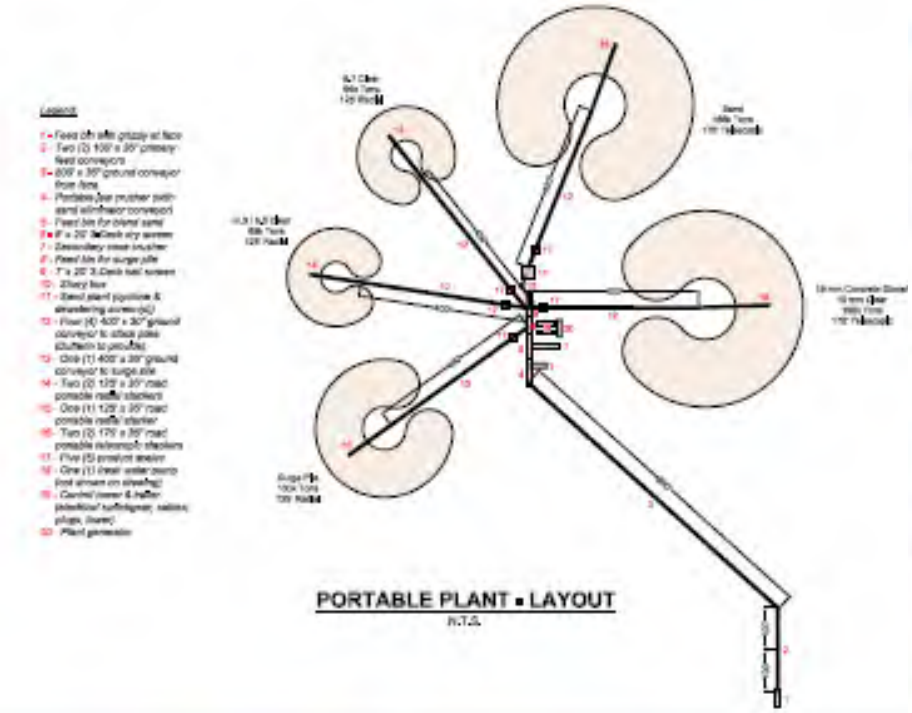


Typical 3.0m Berm Detail

SCALE: Hor. 1:150
Vert. 1:150

This detail will be varied along the length of proposed berms so that the berm configuration (loaction and height) will be varied to create a more natural looking screen. 3.0m is an approximate height. The actual height will vary depending on topsoil or overburden storage requirements, but would normally range from 2–4 metres and the slope exposed to the licence boundary may vary from a minimum of 2:1 to a maximum of 4:1.

Processing Plant Examples



PORTABLE PLANT - LAYOUT
N.T.S.

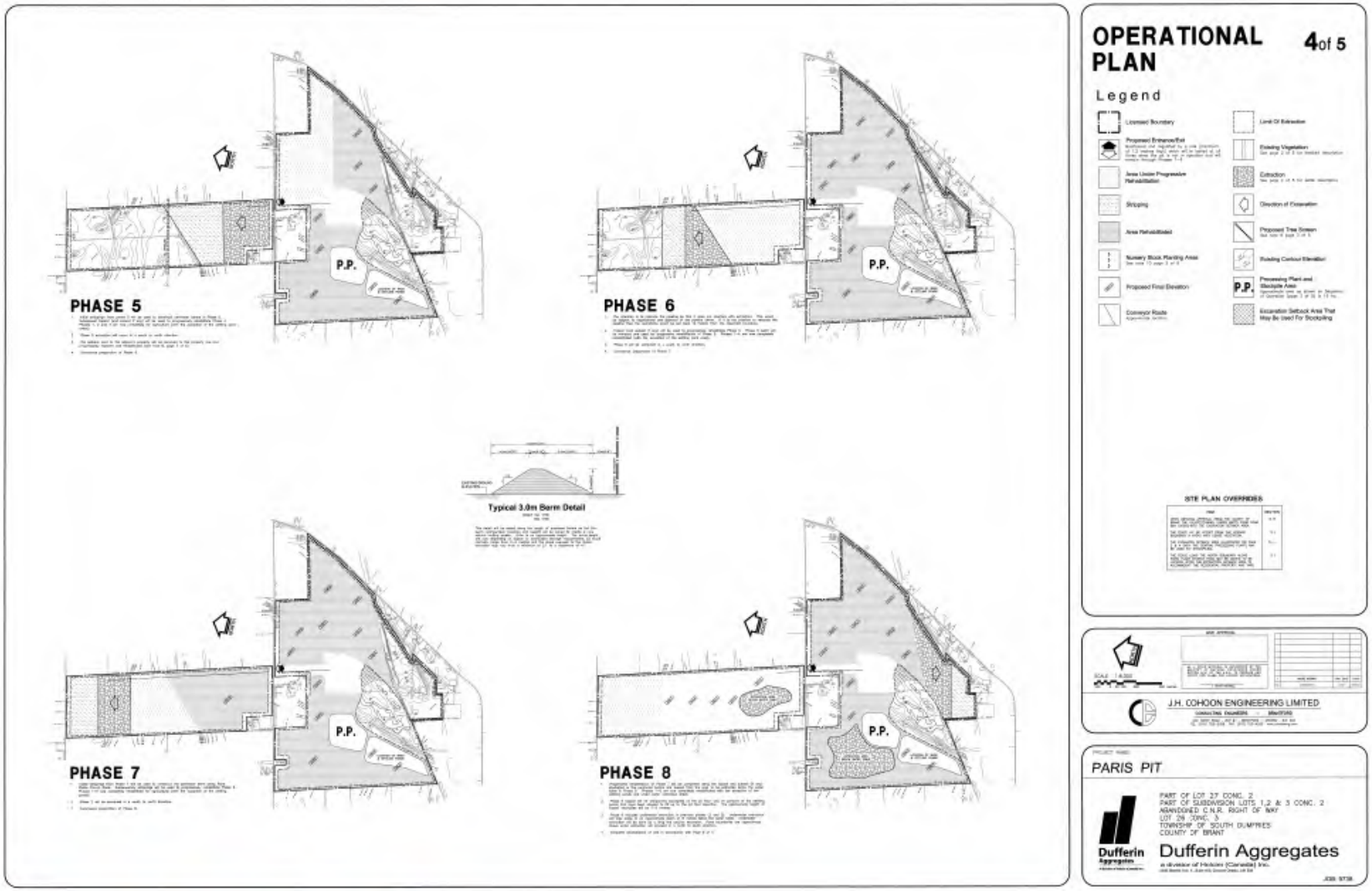
PHOTO #1 - Primary Jaw Crusher

PHOTO #3 - Secondary Cone Crusher

PHOTO #2 - Screen Deck

PHOTO #4 - Sand Plant

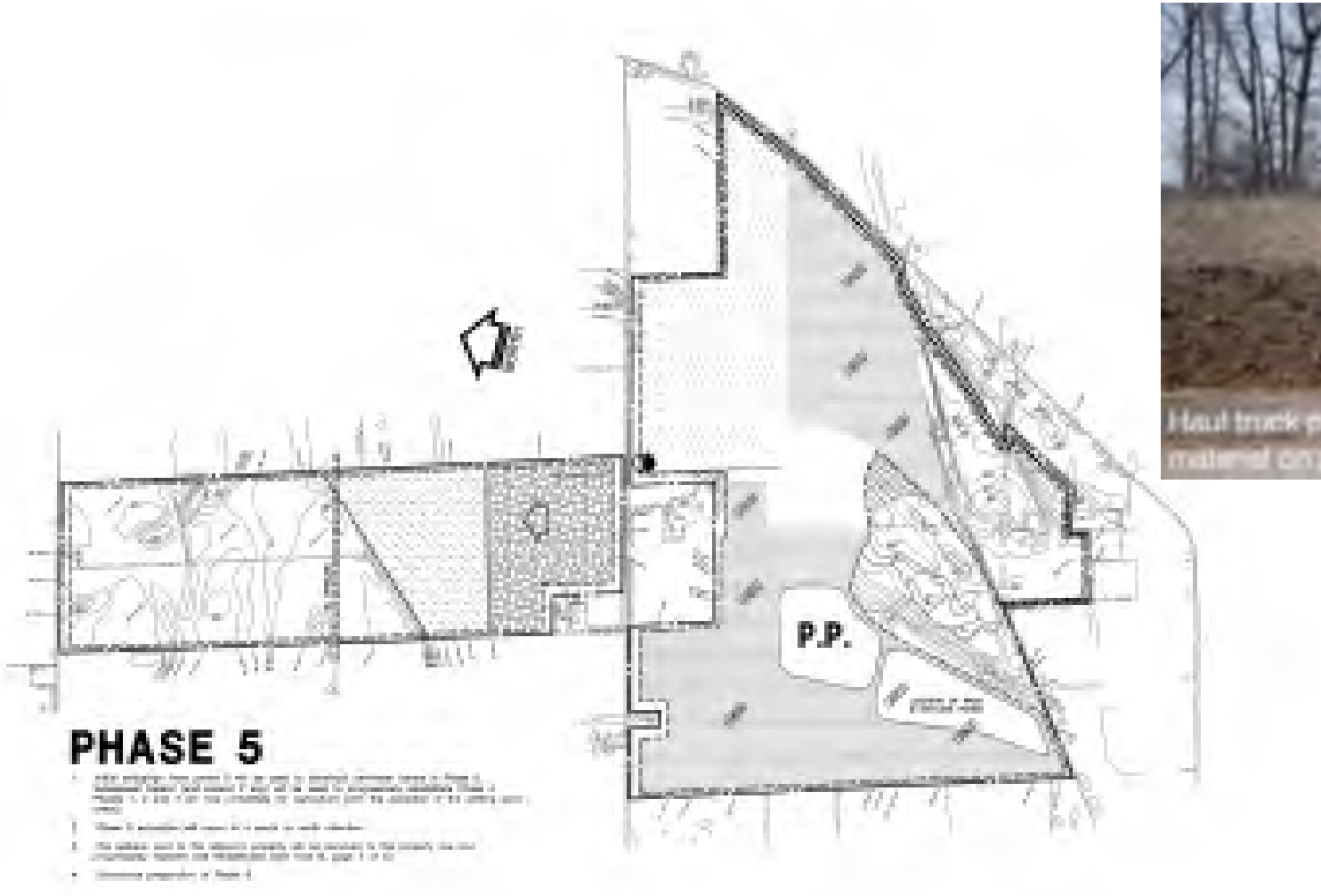
Paris Pit Site Plan – Phases of Extraction and Progressive Rehabilitation



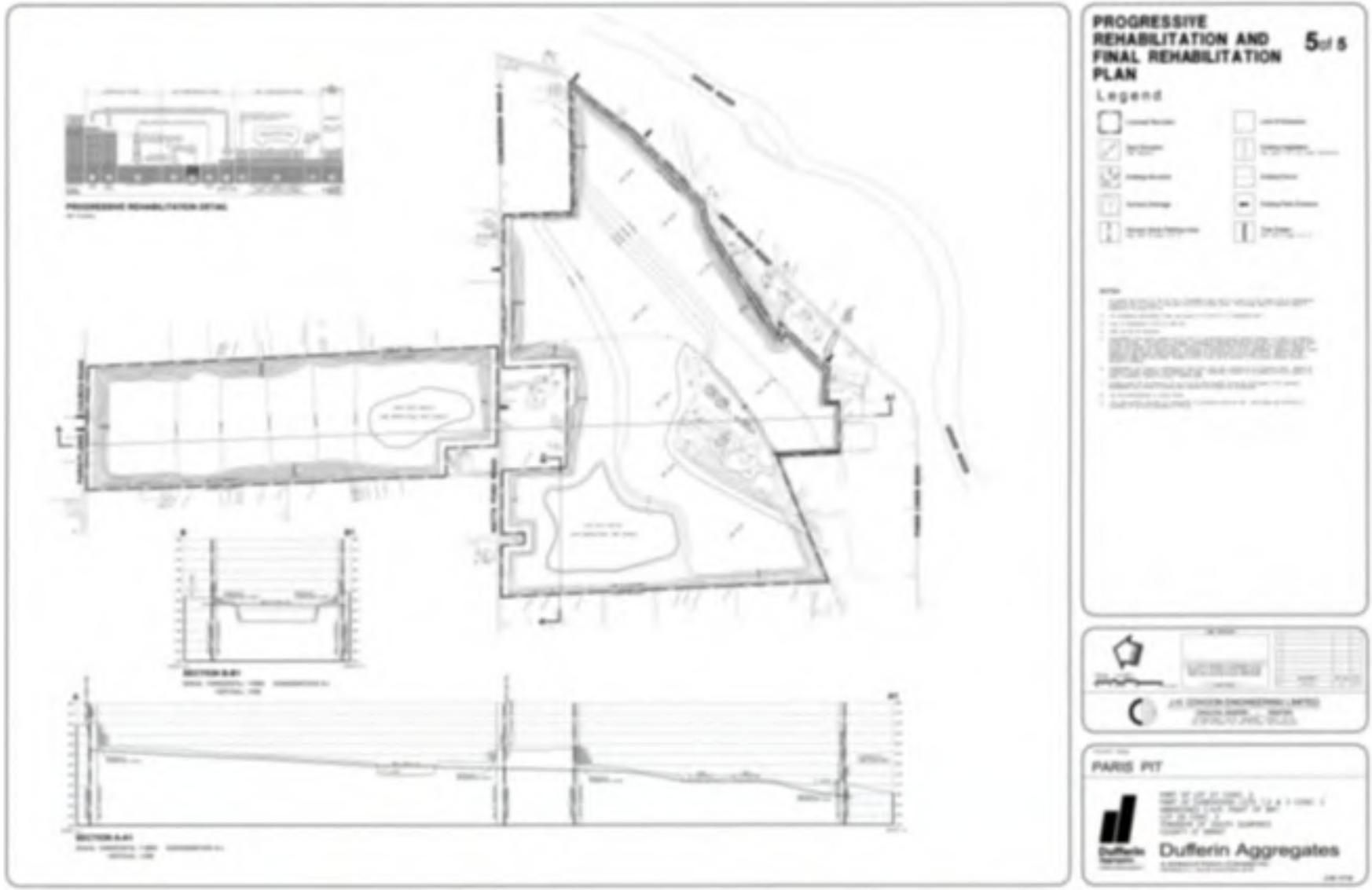
Extraction Below the Water Table

- The site plan includes the approval to extract below the water table in two locations. The design of the phasing is for this to occur as the last phase – more than 20 years in the future.
- Prior to the below water extraction occurring:
  - Source pond development for the PTTW will occur outside the Well Head Protection Area
  - Ground water monitoring will be continued as a check and balance against our PTTW and ARA license commitments
  - Source Water Protection plans will have been approved by MOE and will be implemented
  - Ongoing 3rd party monitoring by the MOE, County, GRCA
- We are committed to drinking water source protection and protection of the natural environment. Extraction at the Paris Pit will not impact the available quantity of water nor the water quality.

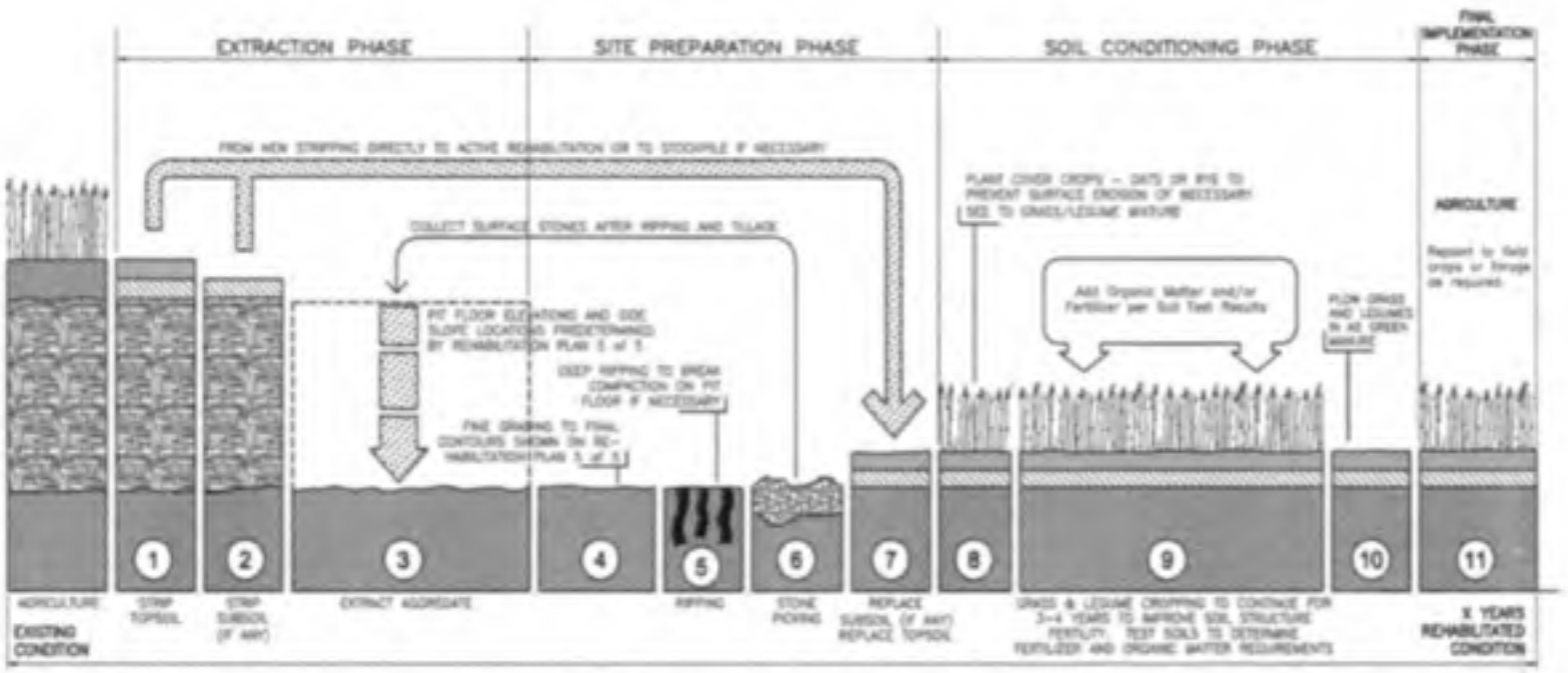
Paris Pit Site Plan –Progressive and Final Rehabilitation



Paris Pit Site Plan –Progressive and Final Rehabilitation



Paris Pit Site Plan –Progressive and Final Rehabilitation



PROGRESSIVE REHABILITATION DETAIL

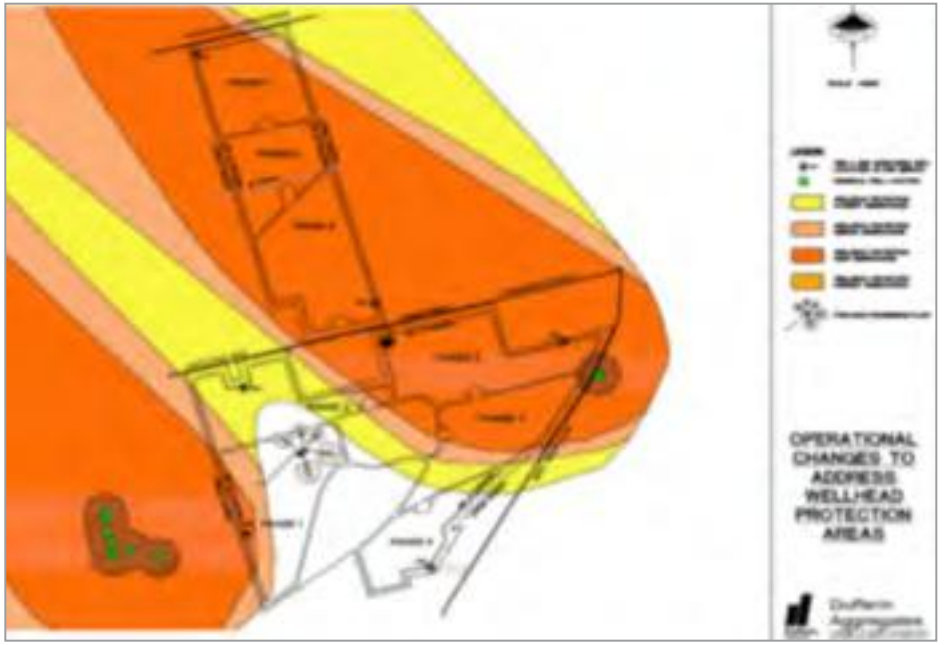
NOT TO SCALE

Making Improvements to the Paris Pit Site Plan and Operation

- In preparation for the commencement of operations, Dufferin Aggregates applied for the following license amendments to redesign the site plan:
  - Minor amendment to the ARA to move the plant location outside the Wellhead Protection Area – *approved February 2012*
  - Major amendment to the ARA to re-locate the site entrance in order to minimize the number of trucks that will pass our neighbours' properties – *approved October 29, 2012*

Making Improvements to the Paris Pit Site Plan and Operation

- There have been concerns raised that since the licence for the Paris Pit was approved in 1974, it will not meet the current standards. Dufferin is required to and is committed to meeting the current standards.
- We are moving forward carefully:
  - Ongoing communications with the CAP, public, County, First Nations, GRCA, MOE, MNR
  - Conducting technical studies using current standards
    - Archaeology
    - Hydrogeology
    - Ecology
    - Transportation
  - Strong baseline monitoring data with continuous monitoring programs



Today's Standards – Permits and Approvals

Dufferin will be applying for the following permits, approvals and compliance, **"*in addition to approvals provided by this site plan, all applicable provincial and federal legislation will apply.*"** *(See Site Plan Page 3, note 13)*:

- **Existing Licence Condition – Spills Plan Implementation**
  - Spills prevention and remediation plan
  - Licence condition by MNR with approval from MOE

- **Permit To Take Water (PTTW)**
  - In order to wash aggregates, a PTTW is required. Washing is required to remove fines to produce some aggregate products to the approved specifications
  - The PTTW is issued and regulated by the MOE
  - Dufferin will be filing a PTTW application for the Paris Pit
  - Dufferin will carry out pre-consultation with MOE, GRCA, County, CAP, First Nations and CCOB prior to formally filing

- **Aggregate Washing – Environmental Compliance Approval (ECA isw)**
  - An ECA (isw) for the source water and settling pond associated with the PTTW
  - The ECA (isw) is issued and regulated by the Ministry of Environment (MOE)

Today's Standards – Permits and Approvals

Dufferin will be applying for the following permits, approvals and compliance, **"*in addition to approvals provided by this site plan, all applicable provincial and federal legislation will apply.*"** *(See Site Plan Page 3, note 13)*:

- **Processing Plant – Environmental Compliance Approval (ECA air)**
  - An ECA (air) is required to operate a processing plant
  - The ECA (air) is issued and regulated by the Ministry of Environment (MOE)
  - The processing equipment to be used will have an ECA (air) and the requirements of the ECA (air) will be implemented
  - New approvals are posted on the Environmental Bill of Rights registry (EBR). If a contractor is used, they will already have an ECA (air).

- **Ministry of Natural Resources - Ecology**
  - Dufferin will continue with the ecology review/monitoring in 2012
  - To date no significant features or species have been identified
  - The 2012 work will include a review of the MNR Species at Risk list for Brant County

- **Technical Standards and Safety Authority (TSSA)**
  - The TSSA regulates the handling and storage of fuels
  - Fuels and lubricants are the only chemicals that will be used in operations
  - All Dufferin operations and employees are trained on spill prevention, handling and remediation. Dufferin has an Environmental Management System to implement these activities.
  - Fuel storage will be in double walled above ground tanks located on an impervious pad

General Discussion

- We understand that there are concerns from the community that certain questions are not getting answered by Dufferin Aggregates
  - We are committed to answering any and all questions we receive and ongoing dialogue with the community

- Today, you have the opportunity to ask any question you feel hasn't been answered clearly. We will:
  - Try to answer the question today as effectively as possible
  - Develop a FAQ following the CAP meeting containing all questions and answers
- We've tried to answer the questions and concerns as we understood them.

Next Steps

- Schedule pre-consultation meetings with various agencies for PTTW application

- Continue to listen to community concerns
  - Next public meeting will be scheduled in the new year

- Continue to liaise with public through Community Advisory Panel
  - Next CAP meeting: 2013
    - Topics could include:
      - Cornerstone Standards Council (SERA/AFO)
      - PTTW consultation

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