

**APPENDIX D -
*HISTORICAL RESOURCES ACT (ALBERTA) CLEARANCE***

Clearances:

1. issued by Alberta Culture - Historical Resources Act Clearance Number: 4715-05-0012-001;
2. issued by Alberta Culture – Historical Resources Act Clearance Number 4715-05-0012-002;
3. issued by Alberta Culture – Historical Resources Act Clearance Number 4715-09-0019-003; and
4. issued by Alberta Culture and Tourism – Historical Resources Act Clearance Number 4715-05-0012-003.

HISTORICAL RESOURCES ACT CLEARANCE

NUMBER 4715-05-0012-001

Memorandum

From: David Link
Assistant Deputy Minister
Heritage Division

Our File Reference: 4715-05-0012-001:
2014-170
OPaC 006402392

Your File Reference:

To: Darren Carter
Alberta Transportation
Edmonton

Date: February 12, 2015

Phone: 780-431-2300

Fax: 780-427-5598

Subject: ***Historical Resources Act Approval***
ALBERTA TRANSPORTATION
SOUTHWEST CALGARY RING ROAD PROJECT - CITY OF CALGARY WEASELHEAD
FLATS PARK LANDS

Acting on behalf of Alberta Transportation (Proponent) and in accordance with Section 37(2)(a)(b) of the *Historical Resources Act*, Lifeways of Canada Limited:

- carried out a Historic Resources Impact Assessment (HRIA) for the Southwest Calgary Ring Road Project - City of Calgary Weaselhead Flats Park Lands (Project); and,
- provided Alberta Culture and Tourism with copies of *Historical Resources Impact Assessment Southwest Calgary Ring Road 2014 City of Calgary Weaselhead Park Lands Final Report* (Archaeology Permit: 2014-170).

HISTORIC RESOURCES IMPACT ASSESSMENT

ARCHAEOLOGICAL RESEARCH PERMIT NO. 2014-170

Under Archaeological Research Permit No. 2014-170, Lifeways of Canada Limited conducted an assessment of lands considered to have high archaeological potential.

RESULTS

Previously Recorded Historic Resources: One previously recorded archaeological site (EfPm-85) was revisited. This site is considered to be of archaeological significance. The consultant has indicated that the site will not be impacted by this project.

Historic Resources Recorded: One new archaeological site (EfPm-342) was recorded. There are no further requirements for this site.

HISTORICAL RESOURCES ACT (HRA) APPROVAL

Based upon the results of the HRIA studies, *Historical Resources Act* approval is granted to the Proponent for the Project, as illustrated on the attached plan and subject to Table 1.0, below.

Terms and Conditions of Approval

The Proponent must comply with standard conditions applicable to all land surface disturbance activities in the Province. If site EfPm-85 is threatened by future development, additional studies will be required prior to development proceeding as outlined in Table 1.0 below.

Section 31 of the Historical Resources Act requires the Proponent and their agent to report the discovery of any archaeological resources, palaeontological resources, historic period sites and/or Aboriginal traditional use site(s) of a type considered to be historic resources under the *Historical Resources Act*. The Proponent may then be ordered to undertake further salvage, preservative or protective measures or take any other actions that the Minister responsible for the *Historical Resources Act* considers necessary.

Should you require additional information or have any questions concerning this approval, contact Barry Newton, Land Use Planner at 780-431-2330 (toll-free 310-0000) or barry.newton@gov.ab.ca.



David Link, PhD
Assistant Deputy Minister

Attachments

**ALBERTA TRANSPORTATION
SOUTHWEST CALGARY RING ROAD PROJECT - CITY OF CALGARY
WEASELHEAD FLATS PARK LANDS
HISTORICAL RESOURCES ACT REQUIREMENTS/APPROVAL
(PROJECT FILE: 4715-05-0012; PERMIT FILE: 2014-170)**

TABLE 1.0

SITE	HRV	LEGAL DESCRIPTION	SITE DESCRIPTION	REQUIREMENTS/APPROVAL
EfPm-85 Revisit	4	LSD 5-25-23-2-W5M	Prehistoric subsurface campsite	HRA APPROVAL GRANTED for the assessed Project footprint. Any future development in the vicinity of this site will require further studies.
EfPm-342	0	LSD 5-25-23-2-W5M	Prehistoric subsurface scatter <10	NO FURTHER HRA REQUIREMENTS Development may proceed in the area of this site



Historic Resources Application

Activity Administration

Date Received: January 26, 2015

HRA Number: 4715-05-0012-001

Project Category: Transportation - Urban, Municipal and Local Roads and Other Transportation Projects (4715)

Application Purpose: Requesting HRA Approval / Requirements

Lands Affected All New Lands

Project Type: Urban Road
ESRI Shapefiles are attached (yes/no) yes
Approximate Project Area (ha) 3.237 ha

Project Name: Southwest Calgary Ring Road Project - City of Calgary Weaselhead Flats Park Lands

Additional Name(s):

Key Contact: Dr. Christy de Mille
Address: #105 809 Manning Road NE
Postal Code: T2E 7M9
E-mail: christy@lifewaysofcanada.com
Affiliation: Lifeways of Canada Limited
City / Province: Calgary, AB
Phone: (403) 730-9461
Fax: () -
Your File Number:

Proponent: Alberta Transportation
Address: 2nd Floor, Twin Atria Building 4999-98 Ave.
Postal Code: T6B 2X3
E-mail: Darren.Carter@gov.ab.ca
Contact Name: Darren Carter
City / Province: Edmonton, AB
Phone: (780) 644-4499
Fax: () -

Proposed Development Area					Land Ownership			
MER	RGE	TWP	SEC	LSD List	FRH	SA	CU	CT
5	2	23	25	5,12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Historical Resources Impact Assessment:

For archaeological resources:

Has a HRIA been conducted?

Yes No

Permit Number (if applicable): 14-170

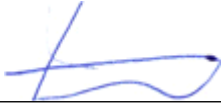
For palaeontological resource:

Has a HRIA been conducted?

Yes No

Permit Number (if applicable):

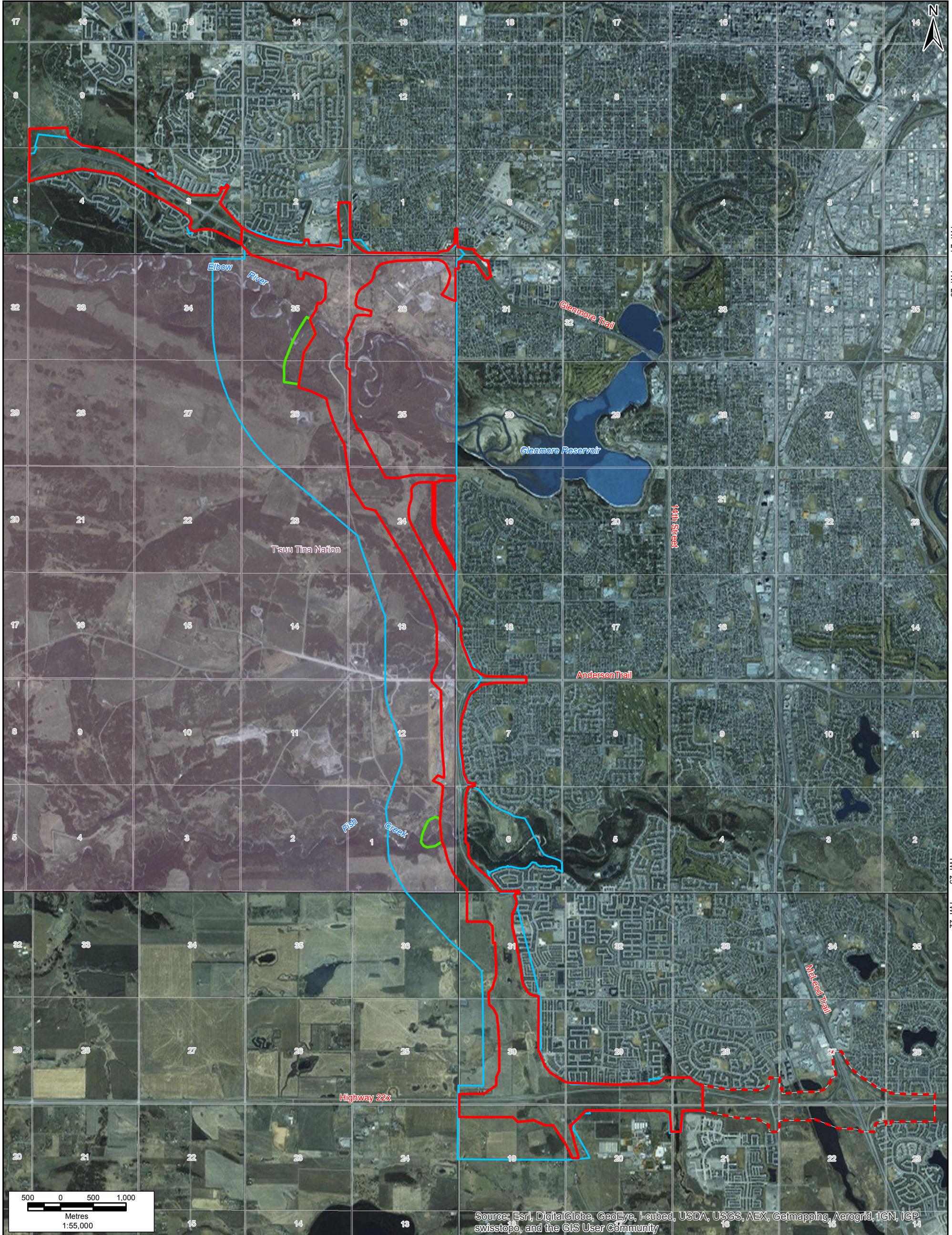
Historical Resources Act clearance is granted subject to Section 31 of the Resources Act, "a person who discovers an historic resource in the course of making an excavation for a purpose other than for the purpose of seeking historic resources shall forthwith notify the minister of the discovery". The chance discovery of historical resources is to be reported to the contacts identified within the listing.



David Link

February 12, 2015

Date



Source: Esri, DigitalGlobe, GeoEye, I-ubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

- Legend**
- Existing/Proposed TUC (SWCRR EA Section)
 - Existing/Proposed TUC (SCRR EA Section)
 - Temporary Use Area
 - SWCRR Environmental Assessment Study Area
 - T'suu Tina Nation



Southwest Calgary Ring Road Environmental Assessment

DATE:	November 2014
ANALYST:	QA/QC: JNB TJR OL
Fig2.1-1_SWCRR EnvAssess 14-11-05	

Figure 2.1-1

S:\GIS\Projects\CE\Calgary_Roads\Projects\CE04163\ArcGIS\Fig.1-1_SWCRR_EnvAssess.mxd

Projection: 3TM 114 NAD83
 Note:
 Source: AMEC, AT, DMTI Spatial Inc., ESRI, GeoBase®, Habtech, Spatial Data Warehouse Ltd.

HISTORICAL RESOURCES ACT CLEARANCE

NUMBER 4715-05-0012-002

Memorandum

From: David Link
Assistant Deputy Minister
Heritage Division

Our File Reference: 4715-05-0012-002
OPaC 006425127

Your File Reference:

To: Darren Carter
Environmental Management Services
Alberta Transportation

Date: May 11, 2015

Phone: 780-431-2300

Fax: 780-427-5598

Subject: **HISTORICAL RESOURCES ACT APPROVAL
ALBERTA TRANSPORTATION
SOUTHWEST CALGARY RING ROAD PROJECT - NON-TSUU T'INA NATION LANDS**

The attached Schedule "B" outlines Alberta Culture and Tourism's requirements for the proposed footprint of Southwest Calgary Ring Road Project - Non-Tsuu T'ina Nation Lands, as illustrated on the attached plan. These requirements involve avoidance of archaeological site EfPm-321 and an HRIA for palaeontology consisting of construction monitoring at the Fish Creek crossing.

HISTORICAL RESOURCES ACT (HRA) APPROVAL

Historical Resources Act approval is granted to the Proponent for the Project, as illustrated on the attached plan subject to requirements outlined in the attached Schedule "B".

Should you require additional information or have any questions concerning these requirements, please contact Barry Newton (Land Use Planner) at 780-431-2330 (toll-free 310-0000) or barry.newton@gova.ab.ca.

I would like to thank representatives of Alberta Transportation for their cooperation in our endeavour to conserve the Province's historic resources.



David Link, PhD
Assistant Deputy Minister

Attachments



Historic Resources Application

Activity Administration

Date Received: March 06, 2015 HRA Number: 4715-05-0012-002

Project Category: Transportation - Urban, Municipal and Local Roads and Other Transportation Projects (4715)

Application Purpose: Requesting HRA Approval / Requirements

Lands Affected All New Lands

Project Type:	<input checked="" type="checkbox"/>	Urban Road	ESRI Shapefiles are attached (yes/no)	yes
			Approximate Project Area (ha)	893.94 ha

Project Name: Southwest Calgary Ring Road Project - Non-Tsuu T'ina Nation Lands

Additional Name(s):

Key Contact:	Dr. Christy de Mille	Affiliation:	Lifeways of Canada Limited
Address:	#105 809 Manning Road NE	City / Province:	Calgary, AB
Postal Code:	T2E 7M9	Phone:	(403) 730-9461
E-mail:	christy@lifewaysofcanada.com	Fax:	() -
		Your File Number:	

Proponent:	Alberta Transportation	Contact Name:	Darren Carter
Address:	2nd Floor, Twin Atria Building 4999-98 Ave.	City / Province:	Edmonton, AB
Postal Code:	T6B 2X3	Phone:	(780) 644-4499
E-mail:	Darren.Carter@gov.ab.ca	Fax:	() -

Proposed Development Area					Land Ownership			
MER	RGE	TWP	SEC	LSD List	FRH	SA	CU	CT
5	2	24	1	1-5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	2	24	9	2-6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	1	22	28	1-5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	1	22	23	13,14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	1	22	27	1-4,6-8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	1	23	18	2-5,12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	2	24	4	9,11-16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	1	22	21	13-16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	2	24	2	1-4,8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	1	22	30	1-4,6-8, 10,11,14,15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	1	22	22	8,9,13-16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5	1	22	26	3,4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	1	22	29	1-4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	1	23	31	13,14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	1	23	7	4,5,12-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	1	22	20	12-16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	1	22	31	2-3,6,7,10-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	1	23	6	2-5,12,13	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	2	24	3	1,2,6-13	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	1	24	6	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	1	22	19	9,13-16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Historical Resources Impact Assessment:

For archaeological resources:

Has a HRIA been conducted?

Yes No

Permit Number (if applicable):

For palaeontological resource:

Has a HRIA been conducted?

Yes No

Permit Number (if applicable):

Historical Resources Act approval is granted for the activities described on this application and its attached plan(s)/sketch(es) subject to the conditions specified in the attached document(s).

David Link

May 11, 2015

Date

HISTORICAL RESOURCES ACT APPROVAL

**ALBERTA TRANSPORTATION
SOUTHWEST CALGARY RING ROAD PROJECT - NON-TSUU T'INA NATION
LANDS
URBAN ROAD**

HRA REQUIREMENTS PROJECT FILE: 4715-05-0012-002

(Schedule "B")

For the purposes of this Schedule Alberta Transportation shall be referred to as the "Proponent" and Southwest Calgary Ring Road Project - Non-Tsuu T'ina Nation Lands shall be referred to as the "Project".

Avoidance or further studies are required for any potentially impacted historic resources during the conduct of the Project. Part I provides the Proponent with *Historical Resources Act* approval for components of the Project while Part II outlines the conditions attached to this approval.

I. HISTORICAL RESOURCES ACT APPROVAL

Historical Resources Act approval is granted to the Proponent for the Project, as illustrated on the attached plan.

II. TERMS AND CONDITIONS OF APPROVAL

The Proponent is granted *Historical Resources Act* approval to proceed with this Project on the understanding that archaeological site EfPm-321 will be avoided and that construction monitoring for palaeontology will occur, as outlined below.

1.0 ARCHAEOLOGICAL RESOURCES

The potential for the Project to affect archaeological resources is high.

1.1 Contacting the Archaeological Survey

For further information regarding the acquisition of a Permit to Excavate Archaeological Resources and/or archaeological consultants obligations under Alberta Regulation 254/2002, please contact Martina Purdon, Head, Archaeological Information &

Regulatory Approvals at 780-431-2331 (toll-free 310-0000) or martina.purdon@gov.ab.ca

1.2 Avoidance

Archaeological site EfPm-321 must be fenced and avoided during construction. The fencing is to be done under the supervision of a consulting archaeologist. A sizable portion of EfPm-321 will remain within Transportation's right-of-way; therefore, a long term avoidance plan must be provided to indicate how avoidance will continue in the future.

2.0 PALAEOLOGICAL RESOURCES

The potential for this Project to affect palaeontological resources is high.

2.1 Historic Resources Impact Assessment

Pursuant to Section 37(2) of the *Historical Resources Act* a Historic Resources Impact Assessment (HRIA) for palaeontological resources and any work resulting from this assessment is to be conducted on behalf of the Proponent by a palaeontologist qualified to hold a "Permit to Excavate Palaeontological Resources (Mitigative)" within the Province of Alberta. The HRIA is to consist of a monitoring program. In order to conduct the HRIA, the palaeontological consultant must submit "An Application for Permit to Excavate Palaeontological Resources (Mitigative)" to the Royal Tyrrell Museum of Palaeontology. Please allow ten working days for the permit to be processed. An approved permit must be issued prior to the initiation of any palaeontological field investigations.

2.1.1 Alberta Regulation 254/2002

Palaeontological investigations conducted under permit in Alberta are subject to the conditions stated within Alberta Regulation 254/2002, *Archaeological and Palaeontological Research Permit Regulation*, conditions set forth in the approved permit, and any other conditions that the Minister imposes under Section 30 of the *Historical Resources Act*.

2.1.2 Contacting the Royal Tyrrell Museum of Palaeontology

For further information regarding the acquisition of a "Permit to Excavate Palaeontological Resources", the conduct of the required palaeontological resource HRIA and/or palaeontological consultants obligations under Alberta Regulation 254/2002, please contact Dan Spivak, Head, Resource Management, Royal Tyrrell Museum of Palaeontology at 403-820-6210 (toll-free 310-0000) or dan.spivak@gov.ab.ca

2.1.3 Coverage

The monitoring program is required for the Fish Creek crossing. Should significant palaeontological resources be encountered during the conduct of the monitoring program the Royal Tyrrell Museum of Palaeontology must be contacted. It may then be

necessary for Alberta Culture and Tourism to issue further instructions regarding these resources.

2.1.4 Timing

No excavation activities are to take place on the Fish Creek crossing portion of the Project until a professional palaeontological consultant is on-site to monitor construction activities.

2.2 Reporting the results of the palaeontological resources HRIA

2.2.1 Submission of specimen data sheets

The Proponent's palaeontological consultant is required to submit "Palaeontological Specimen Data Sheets" for each fossil collected during mitigative studies.

2.2.2 Submission of HRIA final report for palaeontological resources

Upon completion of the monitoring program a digital copy of the final report must be submitted to the Historic Resources Management Branch, Heritage Division, Alberta Culture and Tourism using the Online Permitting and Clearance (OPaC) system.

2.2.3 Submission of interim report(s) for palaeontological resources

Should the Proponent require the granting of *Historical Resources Act* approval for any of the segments described in Condition 2.1.3 *Coverage* prior to the 180 days, it may be necessary for the Proponent's palaeontological consultant to submit an interim report or reports.

3.0 STANDARD CONDITIONS UNDER THE *HISTORICAL RESOURCES ACT*

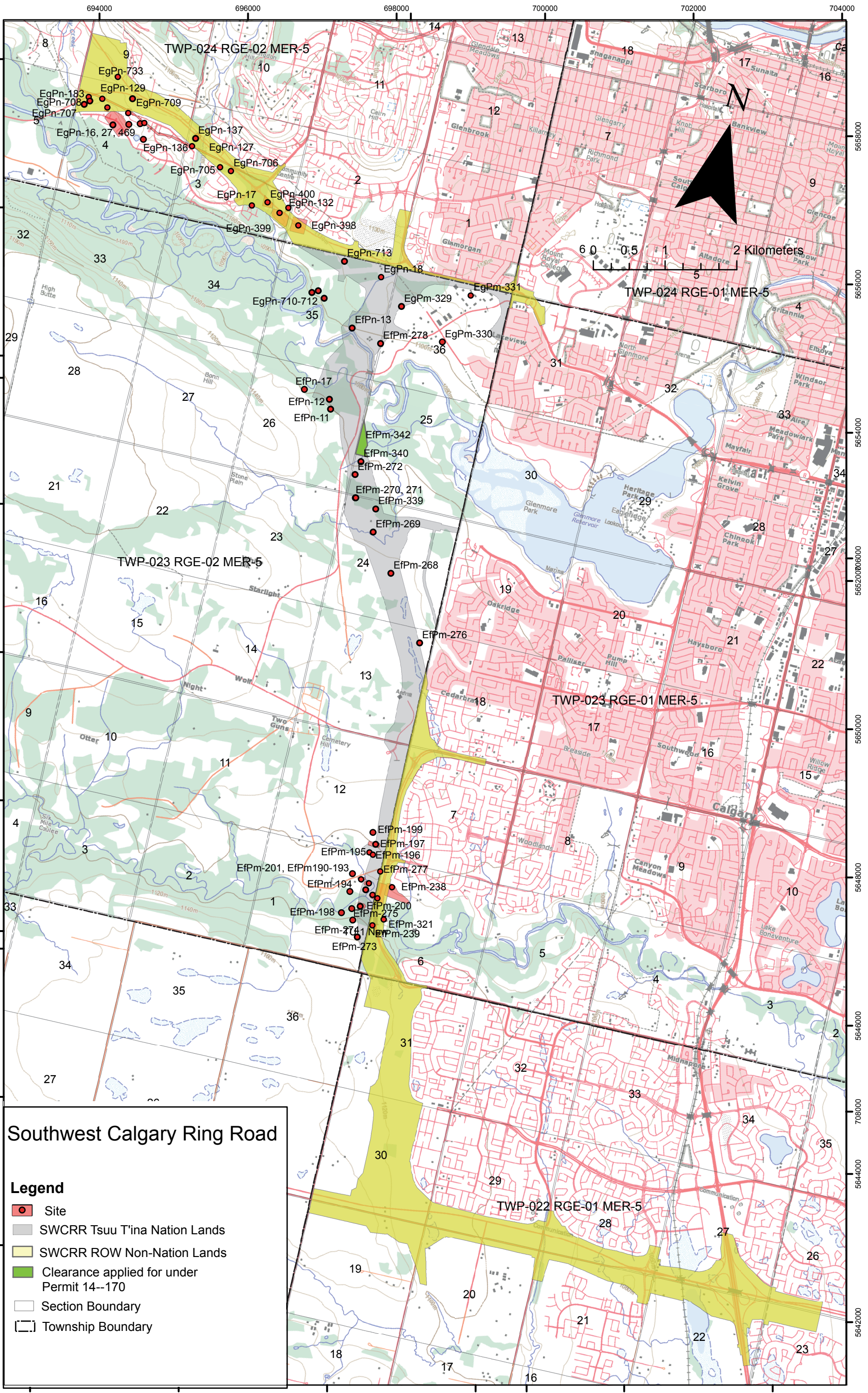
The Proponent must comply with standard conditions under the *Historical Resources Act*, which are applicable to all land surface disturbance activities in the Province. Standard conditions require applicants to report the discovery of historic resources. These requirements are stated in Attachment 1, *Standard Requirements under the Historical Resources Act, Reporting the Discovery of Historic Resources*.

4.0 FURTHER SALVAGE, PRESERVATIVE OR PROTECTIVE MEASURES

Upon reporting the discovery of archaeological resources, palaeontological resources, historic period sites and/or Aboriginal Traditional Use Site(s) of a type described in Attachment 2, the Proponent may be ordered to undertake further salvage, preservative or protective measures or take any other actions that the Minister responsible for the *Historical Resources Act* considers necessary.

5.0 COMPLIANCE IS MANDATORY

These conditions shall be considered directions of the Minister of Alberta Culture and Tourism under the *Act*. The Proponent and agents acting on behalf of the Proponent are required to become knowledgeable of the conditions. Failure to abide by the conditions will result in *Historical Resources Act* approval not being granted, or delayed.



Southwest Calgary Ring Road

Legend

- Site
- SWCRR Tsuu T'ina Nation Lands
- SWCRR ROW Non-Nation Lands
- Clearance applied for under Permit 14--170
- Section Boundary
- Township Boundary

HISTORICAL RESOURCES ACT CLEARANCE

NUMBER 4715-09-0019-003

Memorandum

From: David Link
Assistant Deputy Minister
Heritage Division

Our File Reference: 4715-09-0019-003
Permit 2014-132
OPaC 006484116

Your File Reference:

To: Darren Carter
Manager, Environmental Management
Services
Alberta Transportation

Date: May 26, 2015

Phone: 780-431-2300

Fax: 780-427-5598

Subject: **Historical Resources Act Approval**
ALBERTA TRANSPORTATION
WEST CALGARY RING ROAD EGPN-682 AND EGPN-735 STAGE II HRIM

Acting on behalf of Alberta Transportation (Proponent) and in accordance with Section 37(2)(a)(b) of the *Historical Resources Act*, AMEC Environment & Infrastructure:

- carried out the required Stage II excavations at archaeological sites EgPn-682 and EgPn-735 for the West Calgary Ring Road EgPn-682 and EgPn-735 Stage II HRIM (Project); and,
- provided Alberta Culture and Tourism with copies of the final report summarizing the HRIA, *Alberta Transportation West Calgary Ring Road, EgPn-682 and EgPn-735 Stage II Historical Resources Impact Mitigation*: (Archaeology Permit: 2014-132).

HISTORIC RESOURCES IMPACT ASSESSMENT

Terms of Reference

The terms of reference for the HRIA were outlined in Schedule "D" of my memorandum to you dated September 2, 2010. These requirements included Stage II studies at archaeological sites EgPn-682 and 735.

ARCHAEOLOGICAL RESEARCH PERMIT NO. 2014-123

Under Archaeological Research Permit No. 2014-123, AMEC Environment & Infrastructure conducted the required Stage II studies at archaeological sites EgPn-682 and EgPn-735.

HISTORICAL RESOURCES ACT (HRA) APPROVAL

Based upon the results of the Stage II studies, *Historical Resources Act* approval is granted to the Proponent to proceed with development in the area of archaeological sites EgPn-682 and EgPn-735 as outlined in Table 1.0 below.

Terms and Conditions of Approval

The Proponent must comply with standard conditions applicable to all land surface disturbance activities in the Province.

Section 31 of the Historical Resources Act requires the Proponent and their agent to report the discovery of any archaeological resources, palaeontological resources, historic period sites and/or Aboriginal traditional use site(s) of a type considered to be historic resources under the *Historical Resources Act*. The Proponent may then be ordered to undertake further salvage, preservative or protective measures or take any other actions that the Minister responsible for the *Historical Resources Act* considers necessary.

Should you require additional information or have any questions concerning this approval, contact Barry Newton, Land Use Planner at 780-431-2330 (toll-free 310-0000) or barry.newton@gov.ab.ca.

I would like to thank representatives of Alberta Transportation for their cooperation in our endeavour to document the Province's historic resources.



David Link, PhD
Assistant Deputy Minister

Attachments

**ALBERTA TRANSPORTATION
WEST CALGARY RING ROAD EGN-682 AND EGN-735 STAGE II HRM
HISTORICAL RESOURCES ACT REQUIREMENTS/APPROVAL
(PROJECT FILE: 4715-09-0019-003; PERMIT FILE: 14-132)**

TABLE 1.0

SITE	HRV	LEGAL DESCRIPTION	SITE DESCRIPTION	REQUIREMENTS/APPROVAL
EgPn-682	0	LSD 3,4-33-24-2-W5M	Prehistoric subsurface campsite	Required Stage II excavations completed – no further HRA requirements for this site. Development may proceed in the site area.
EgPn-735	0	LSD 4-21-24-2-W5M	Prehistoric subsurface campsite	Required Stage II excavations completed – no further HRA requirements for this site. Development may proceed in the site area.



Historic Resources Application

Activity Administration

Date Received: April 17, 2015

HRA Number: 4715-09-0019-003

Project Category: Transportation - Urban, Municipal and Local Roads and Other Transportation Projects (4715)

Application Purpose: Requesting HRA Approval / Requirements

Lands Affected No New Lands

Project Type: Urban Road
 ESRI Shapefiles are attached (yes/no) no
 Approximate Project Area (ha) 0.001

Project Name: West Calgary Ring Road EgPn-682 and EgPn-735 Stage II HRIM

Additional Name(s):

Key Contact:	Ms Nancy Saxberg	Affiliation:	AMEC Environment & Infrastructure
Address:	140 Quarry Park Blvd. SE	City / Province:	Calgary, AB
Postal Code:	T2C 3G3	Phone:	(403) 387-1759
E-mail:	nancy.saxberg@amec.com	Fax:	() -
		Your File Number:	

Proponent:	Alberta Transportation	Contact Name:	Darren Carter
Address:	2nd Floor, Twin Atria Building 4999-98 Ave.	City / Province:	Edmonton, AB
Postal Code:	T6B 2X3	Phone:	(780) 644-4499
E-mail:	Darren.Carter@gov.ab.ca	Fax:	() -

Proposed Development Area					Land Ownership			
MER	RGE	TWP	SEC	LSD List	FRH	SA	CU	CT
5	2	24	33	3,4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	2	24	21	4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Historical Resources Impact Assessment:

For archaeological resources:

Has a HRIA been conducted? Yes No

Permit Number (if applicable): 14-132

For palaeontological resource:

Has a HRIA been conducted? Yes No

Permit Number (if applicable):

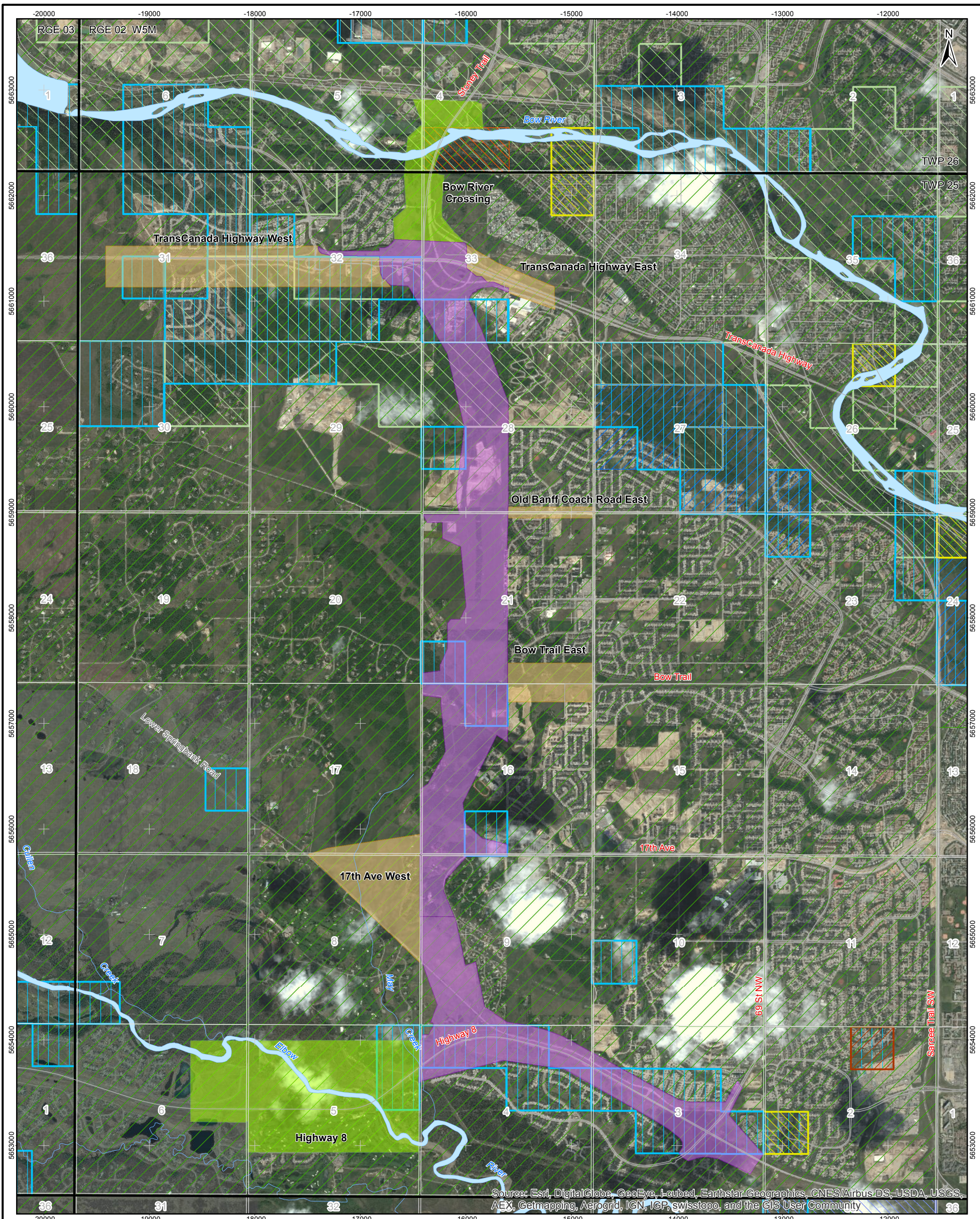
Historical Resources Act approval is granted subject to Section 31, "a person who discovers an historic resource in the course of making an excavation for a purpose other than for the purpose of seeking historic resources shall forthwith notify the Minister of the discovery." The chance discovery of historical resources is to be reported to the contacts identified within the Listing of Historic Resources.



David Link

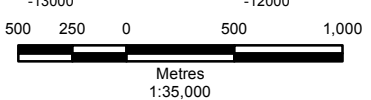
May 26, 2015

Date



Source: Esri, DigitalGlobe, GeoEye, I-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

- Legend**
- WCCR Main Corridor
 - Proposed Interchange Area
 - River Crossing
- HRV Value**
- 1, n
 - 1, h
 - 2, h
 - 4, p
 - 4, a
 - 4, c
 - 5, p
 - 5, a

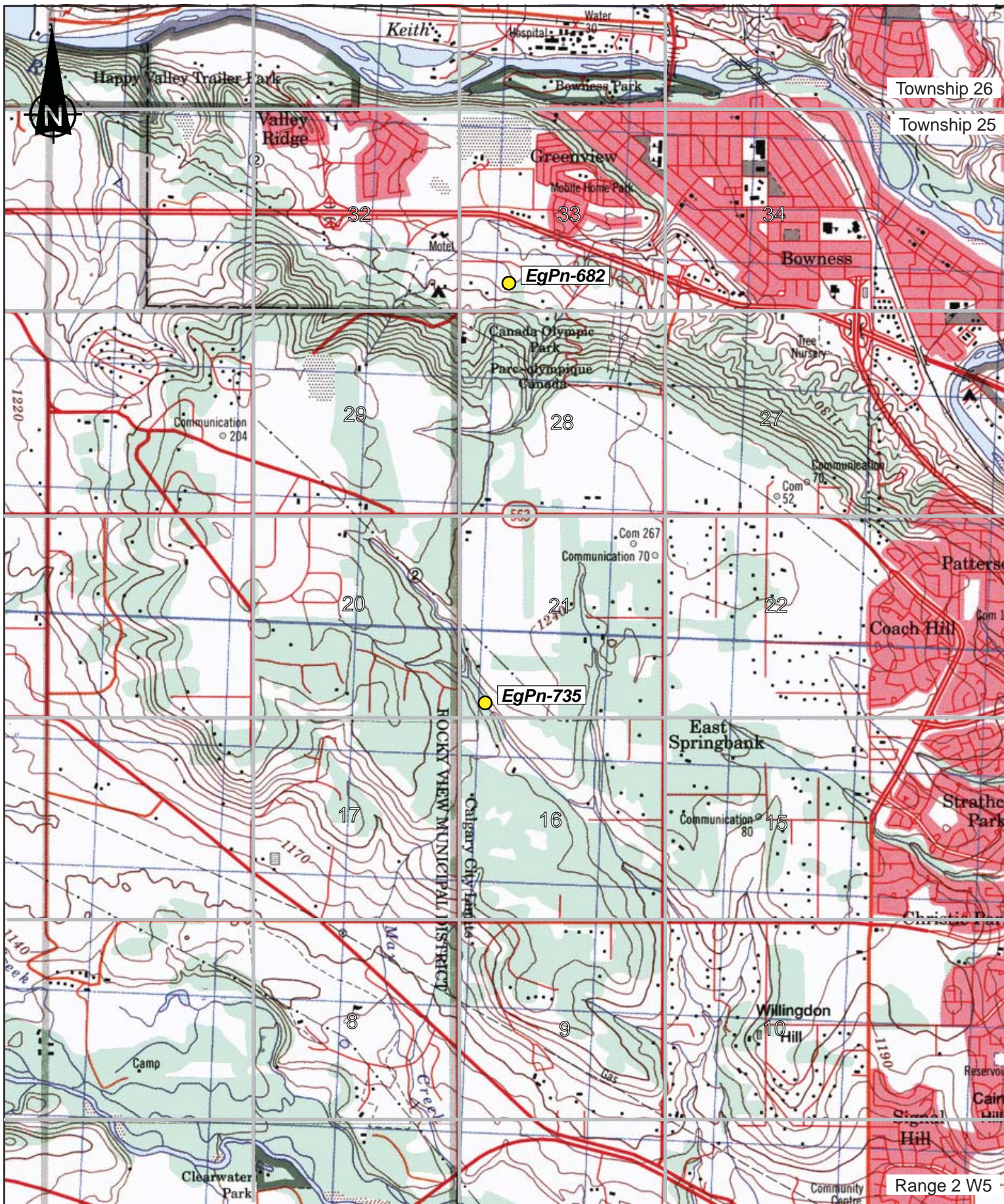


West Calgary Ring Road

West Calgary Ring Road

<p>DATE: December 2014</p> <p>PROJECT: CE04436</p> <p>ANALYST: JNB QA/QC: TJR AD OL</p> <p>PROJECTION/DATUM: 3TM 114 NAD83</p>	<p>Figure 1</p> <p>Fig01 WCCR HRV 14-12-11</p>
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Path: S:\GIS\Projects\CE04436\Ring_Roads\Projects\CE04436\ArcGIS\Fig01 WCCR HRV.mxd



● Archaeological Site subject to Stage II HRIM (Permit 14-132)

1:50,000 NTS basemap (820/1 Calgary)

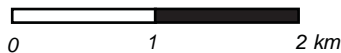
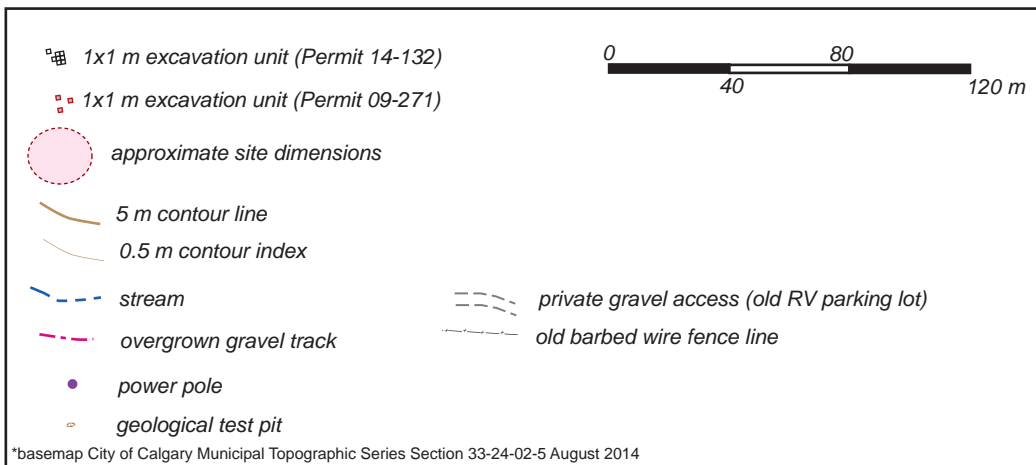
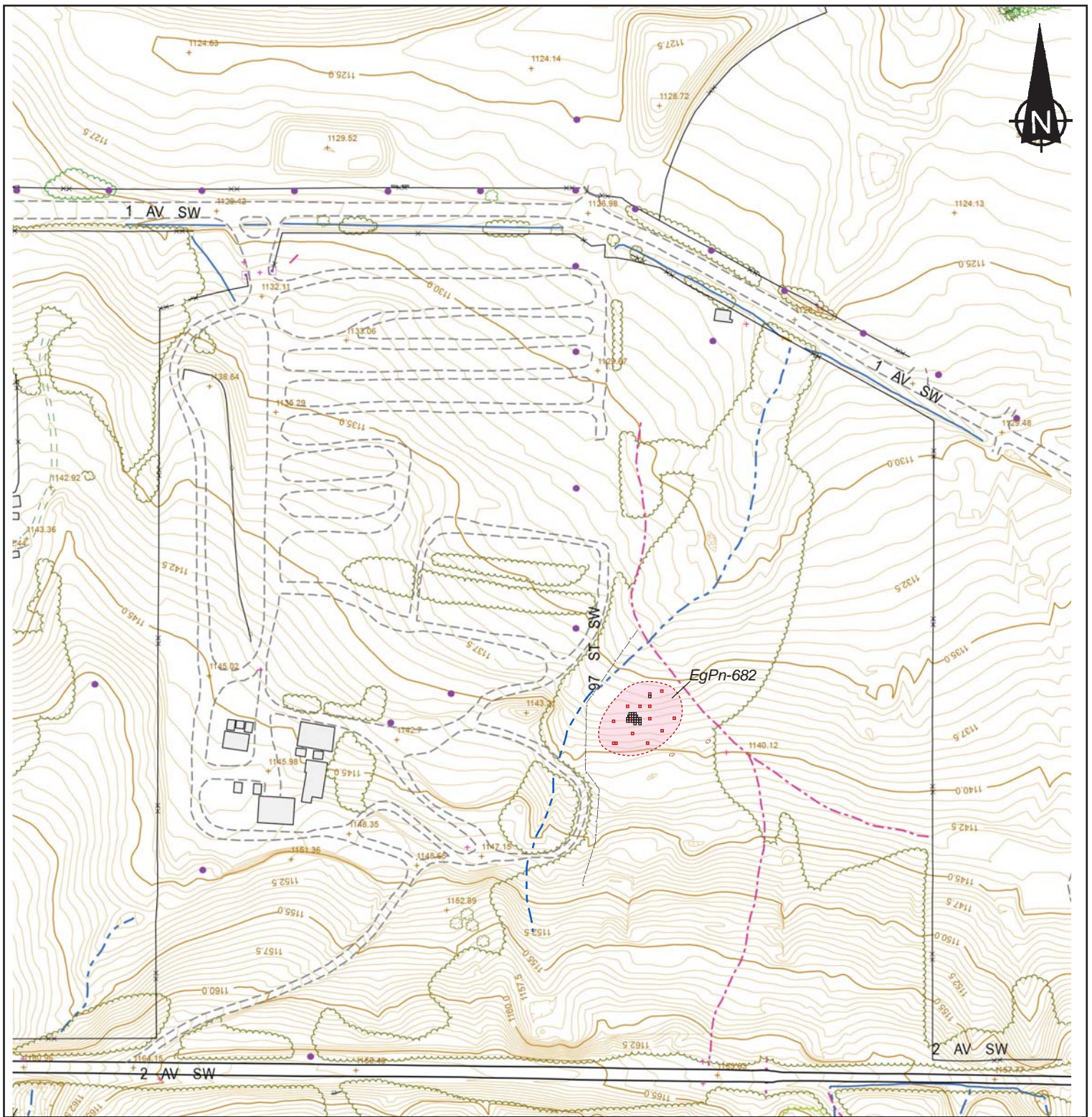


FIGURE 2.
Location of EgPn-682 and EgPn-735



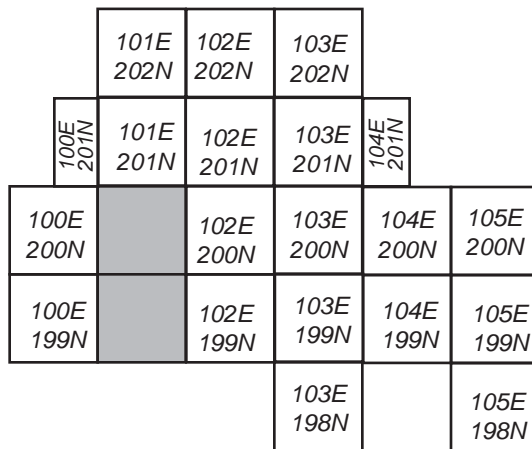
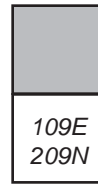
**ALBERTA TRANSPORTATION
WEST CALGARY RING ROAD**

**Figure 3.
EgPn-682
Site Area**

*basemap City of Calgary Municipal Topographic Series Section 33-24-02-5 August 2014



aspen grove



aspen grove

 1x1 m excavation unit (Permit 14-132)

 1x1 m excavation unit (Permit 09-271)

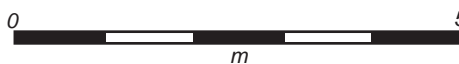
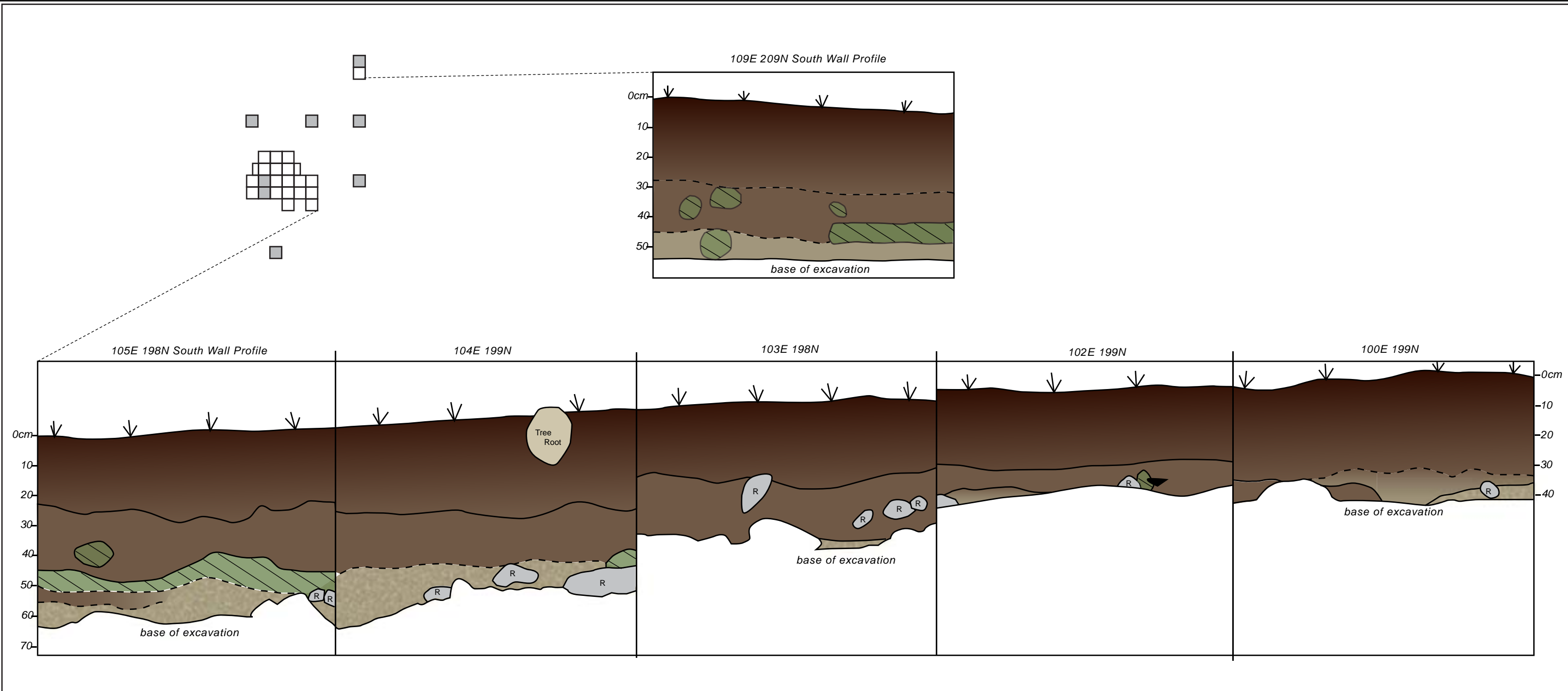







Figure 4.
EgPn-682
Stage II Excavations



-  (A) dark grey brown silty loam, crumbly sediments
-  (B) brown compact silts
-  (B/C) mottled mix of brown and grey/tan silts
-  (C) mottled grey/tan silts
-  (C) grey/tan silts




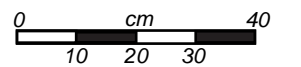
-  rodent disturbance
-  Rock
-  Bone

FIGURE 5.

EgPn-682

Soil Profiles

Project #CE04436.400.200 Drawn by: AD
 Date: Dec 2014 Checked by: NS
 Client: Alberta Transportation Revision No.: 1



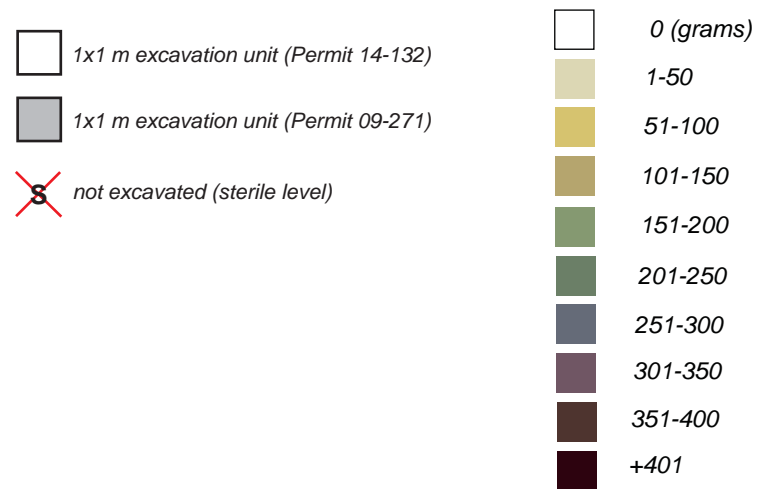
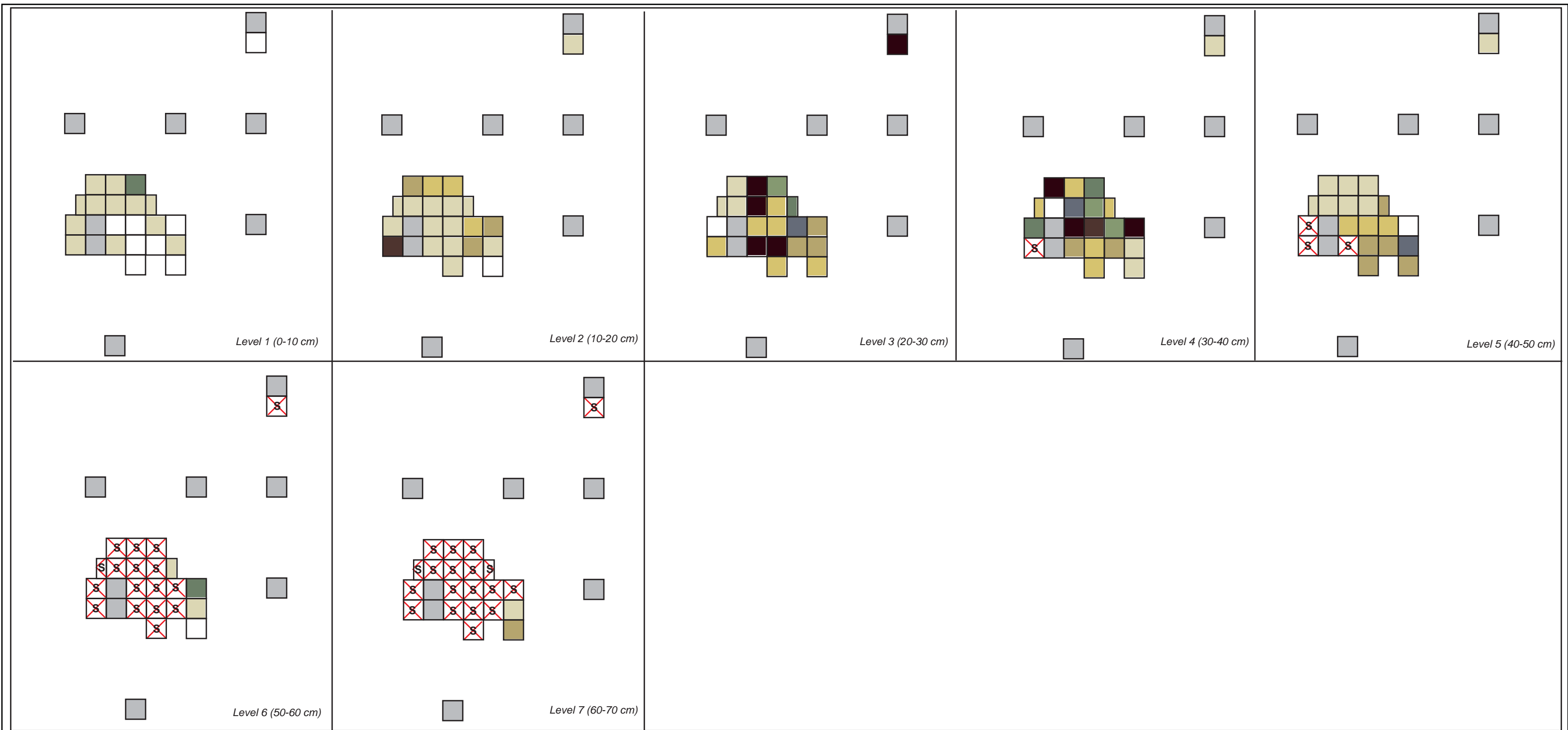
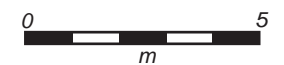


Figure 6.
EgPn-682 Stage II
Bone Debitage Concentrations by Level

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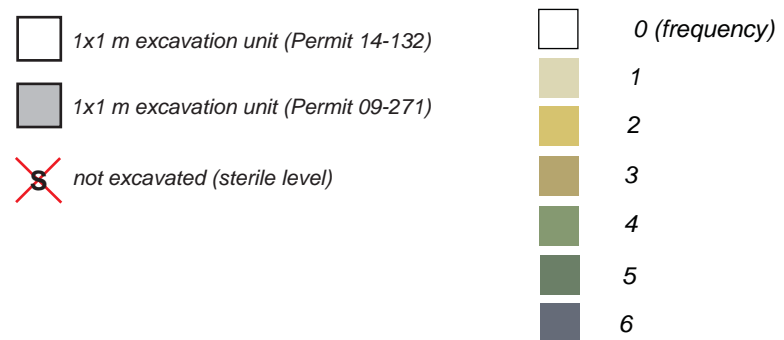
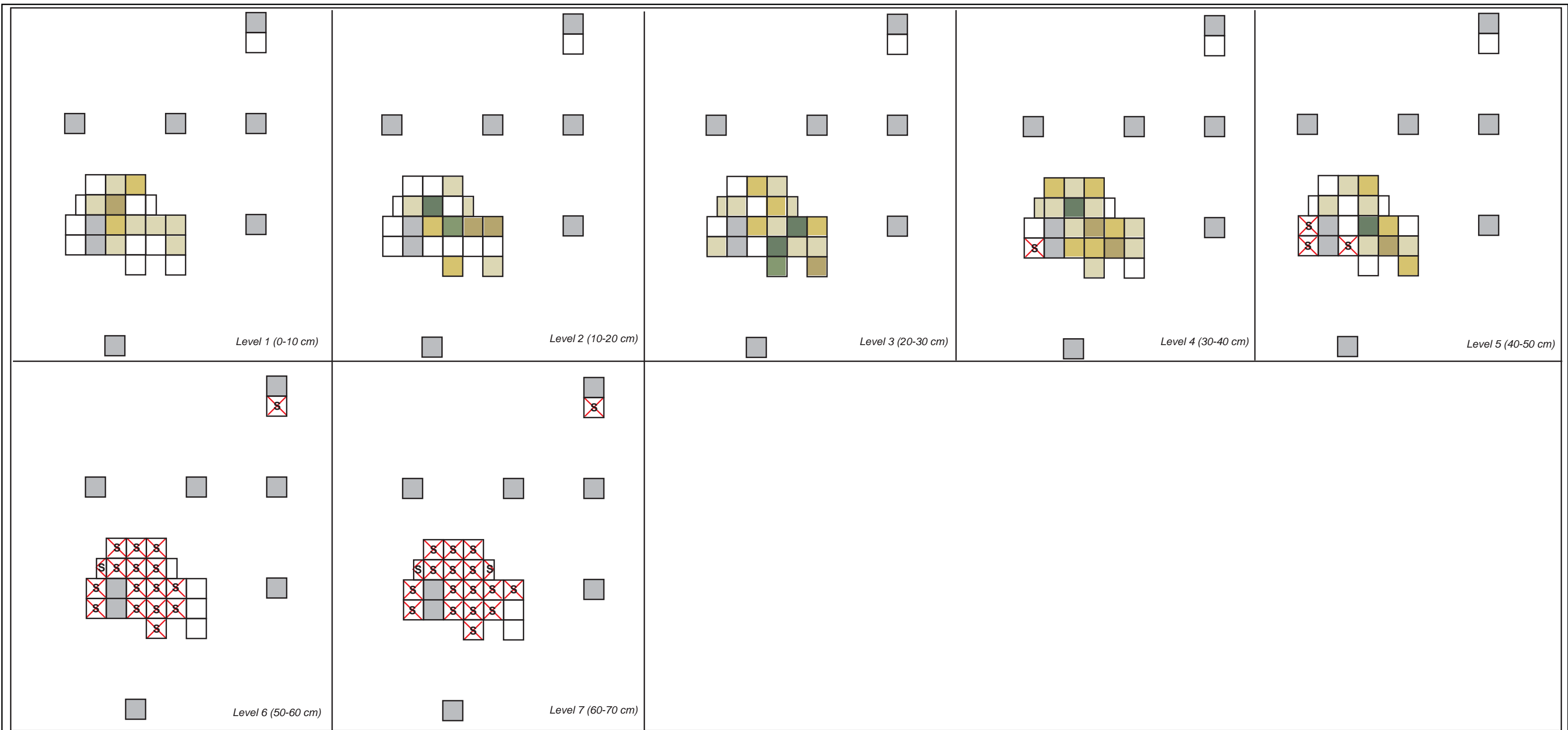
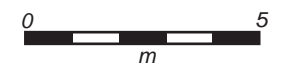


Figure 7.
EgPn-682 Stage II
Lithic Debitage Concentrations by Level

Project #CE04436.400.200 Drawn by: AD
Date: Dec 2014 Checked by: NS
Client: Alberta Transportation Revision No.: 1



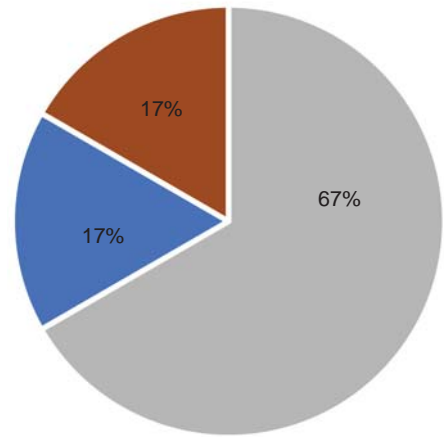
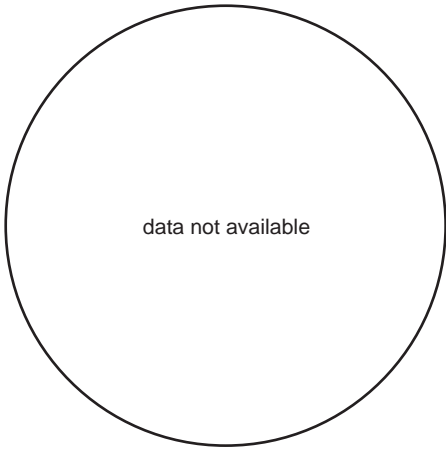
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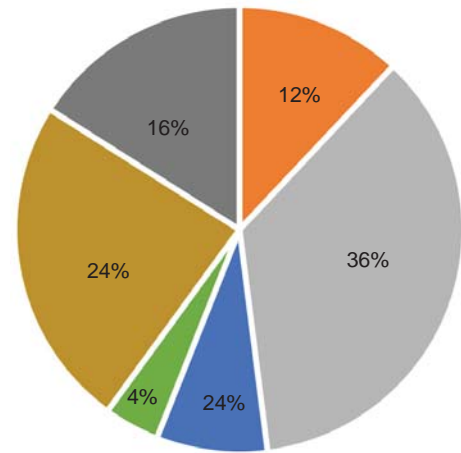
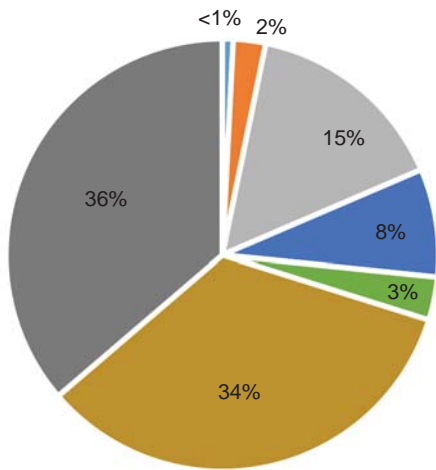
Lithic Debitage

Lithic Tools

Stage I Excavations



Stage II Excavations



Combined Stages I & II

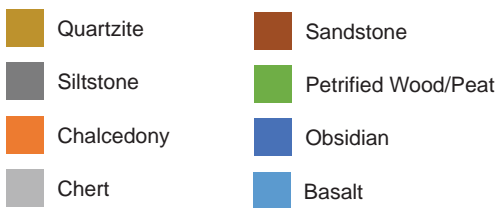
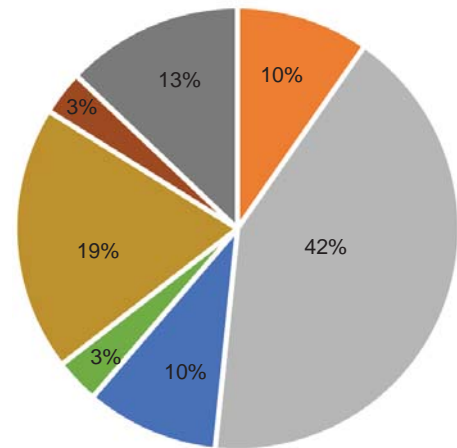
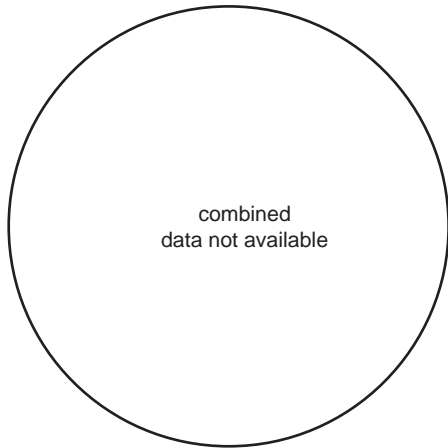
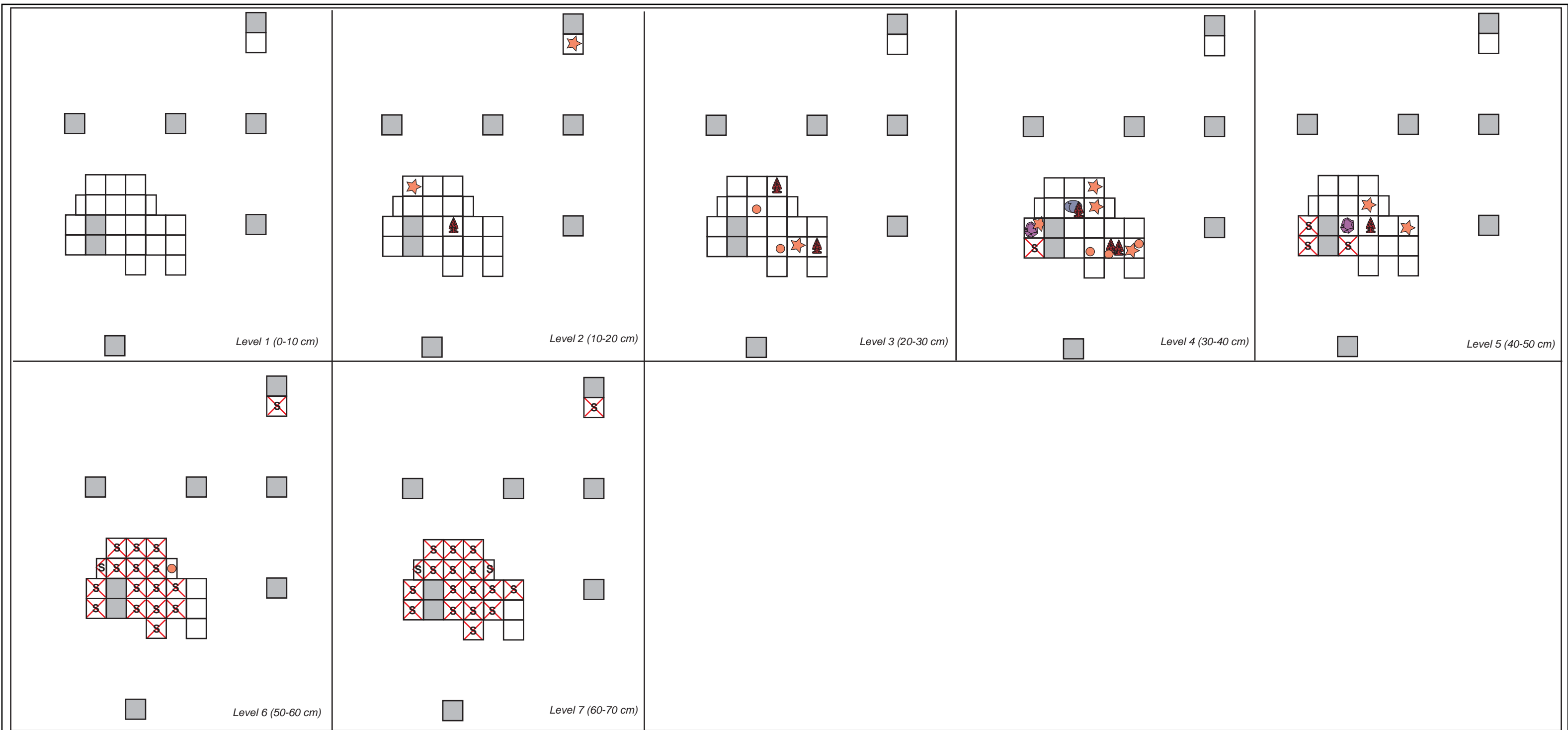


FIGURE 8.

EgPn-682 Lithic Raw Materials



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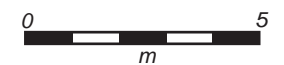
-  1x1 m excavation unit (Permit 14-132)
-  1x1 m excavation unit (Permit 09-271)
-  not excavated (sterile level)
-  core
-  projectile point
-  retouched flake
-  tried cobble
-  utilized flake



Figure 9.
EgPn-682 Stage II
Tool Scatter by Level

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Client: Alberta Transportation Revision No.: 1



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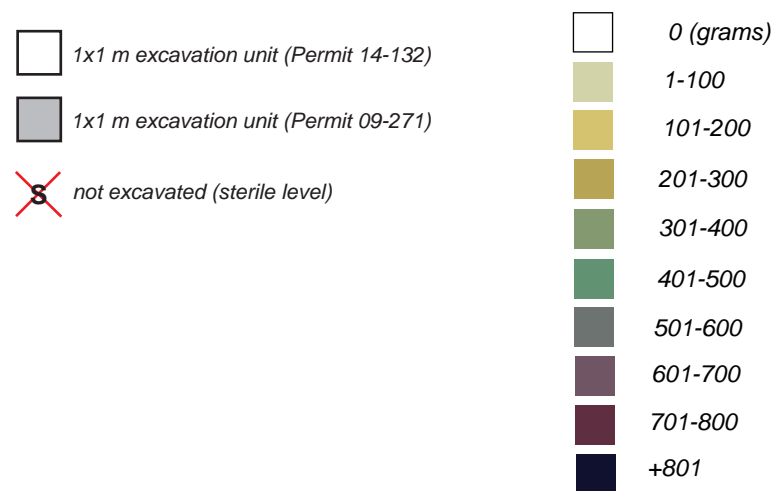
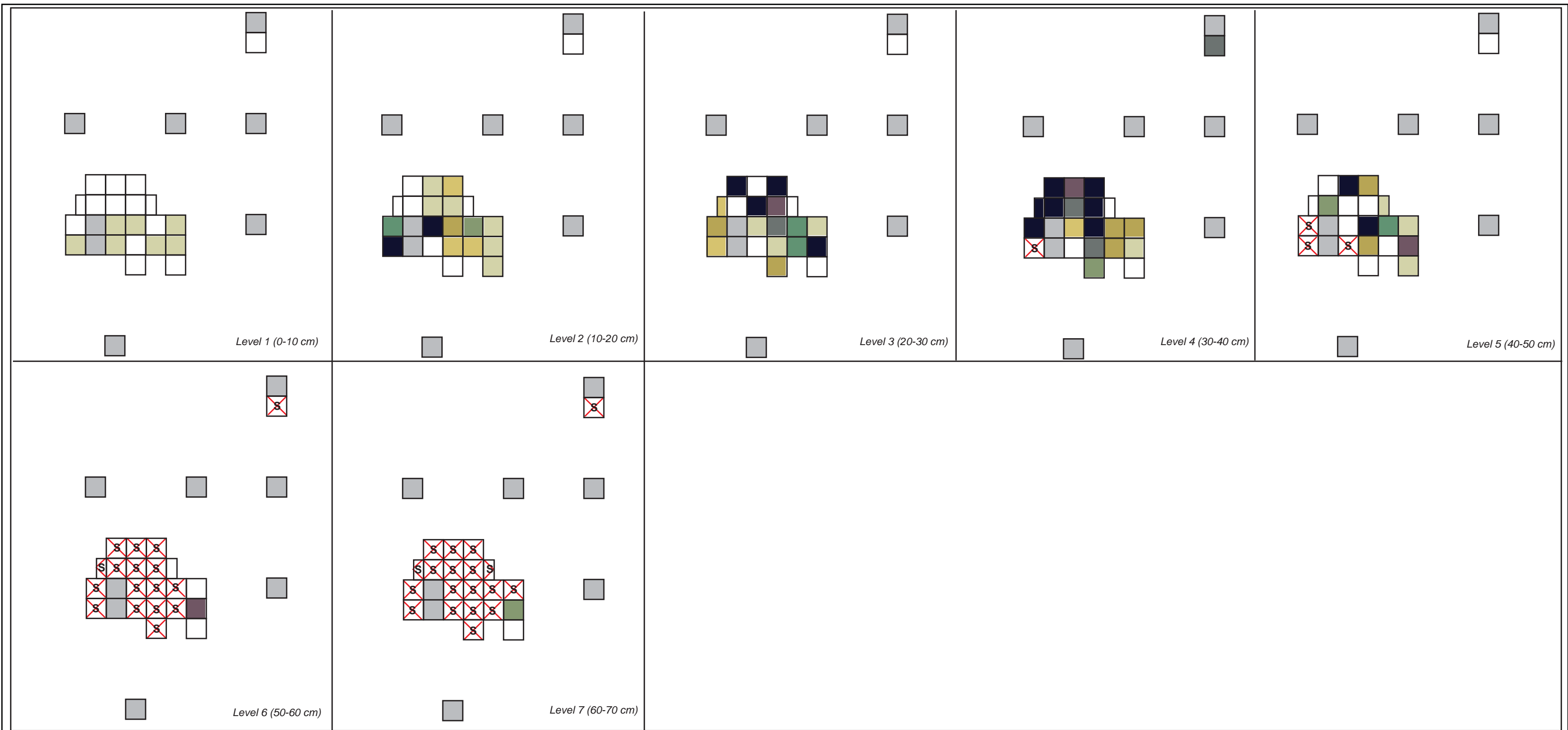
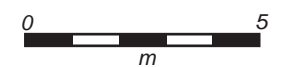
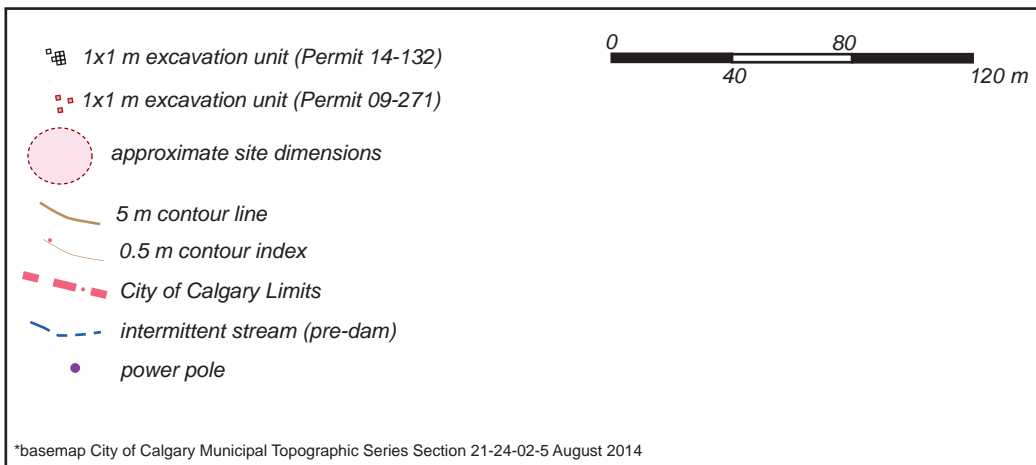
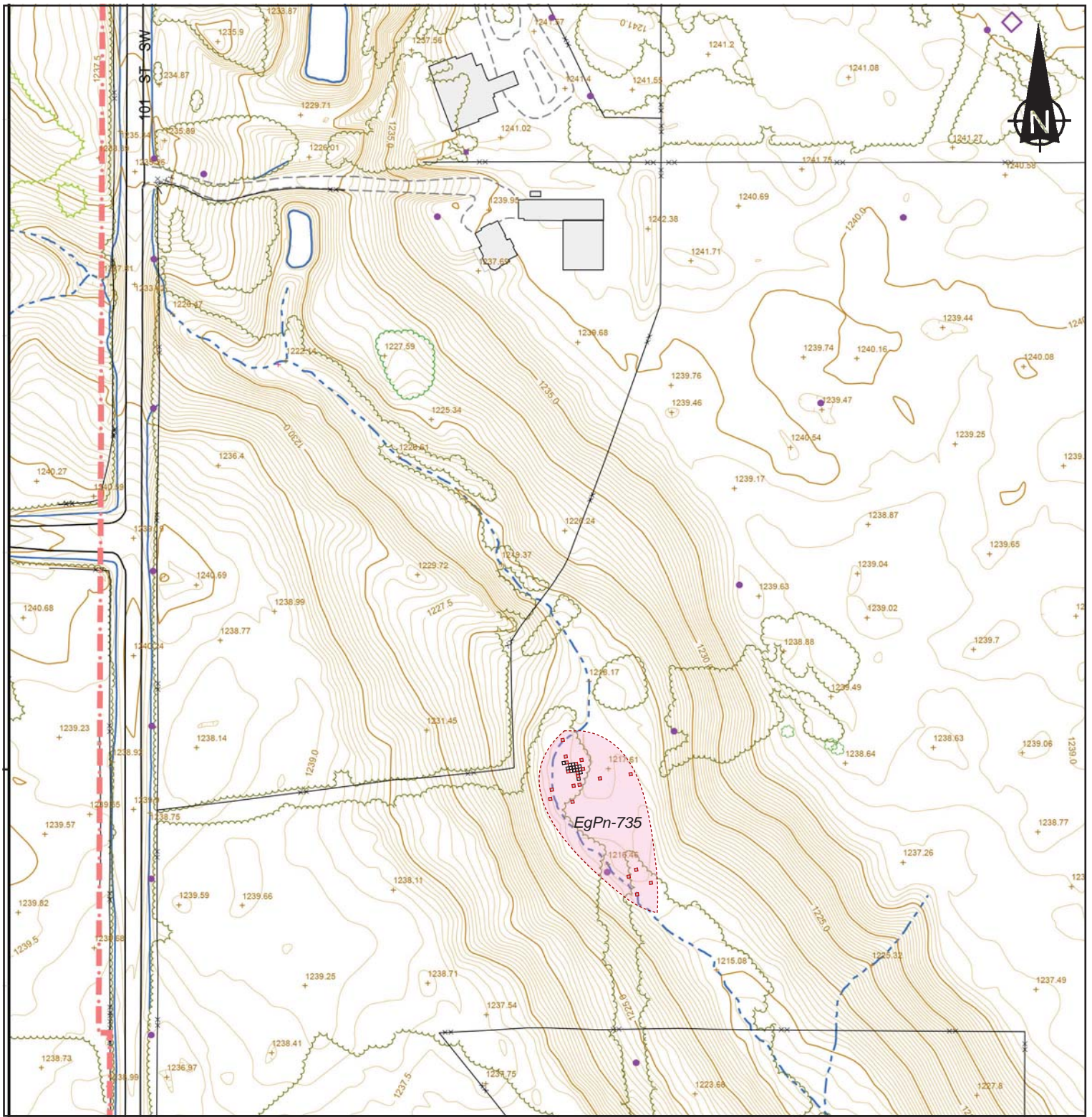


Figure 10.
EgPn-682 Stage II
Fire Altered Rock Concentrations by Level

Project #CE04436.400.200 Drawn by: AD
Date: Dec 2014 Checked by: NS
Client: Alberta Transportation Revision No.: 1





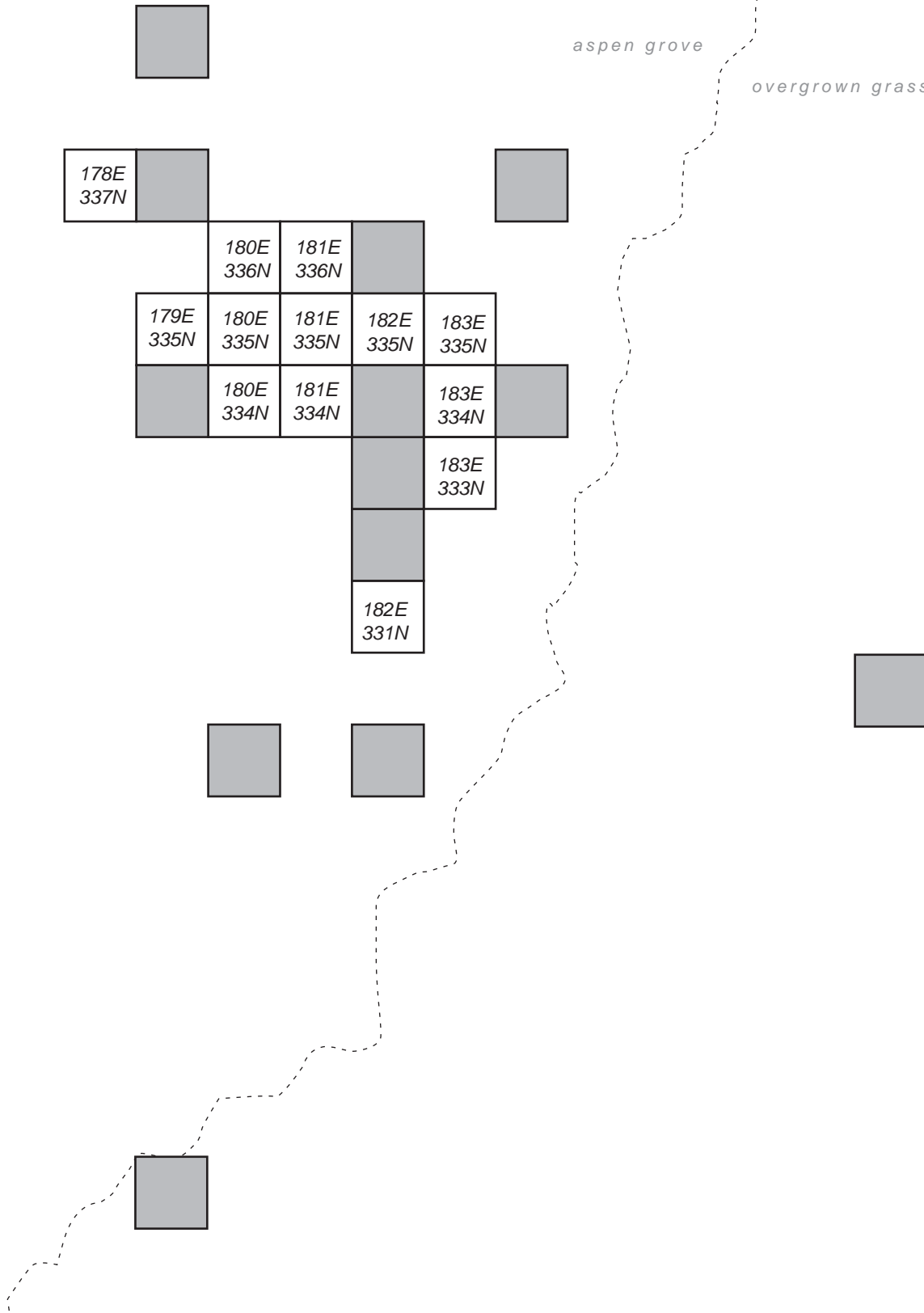
**ALBERTA TRANSPORTATION
WEST CALGARY RING ROAD**

**Figure 11.
EgPn-735
Site Area**



aspen grove

overgrown grassy pasture



1x1 m excavation unit (Permit 14-132)



1x1 m excavation unit (Permit 09-###)



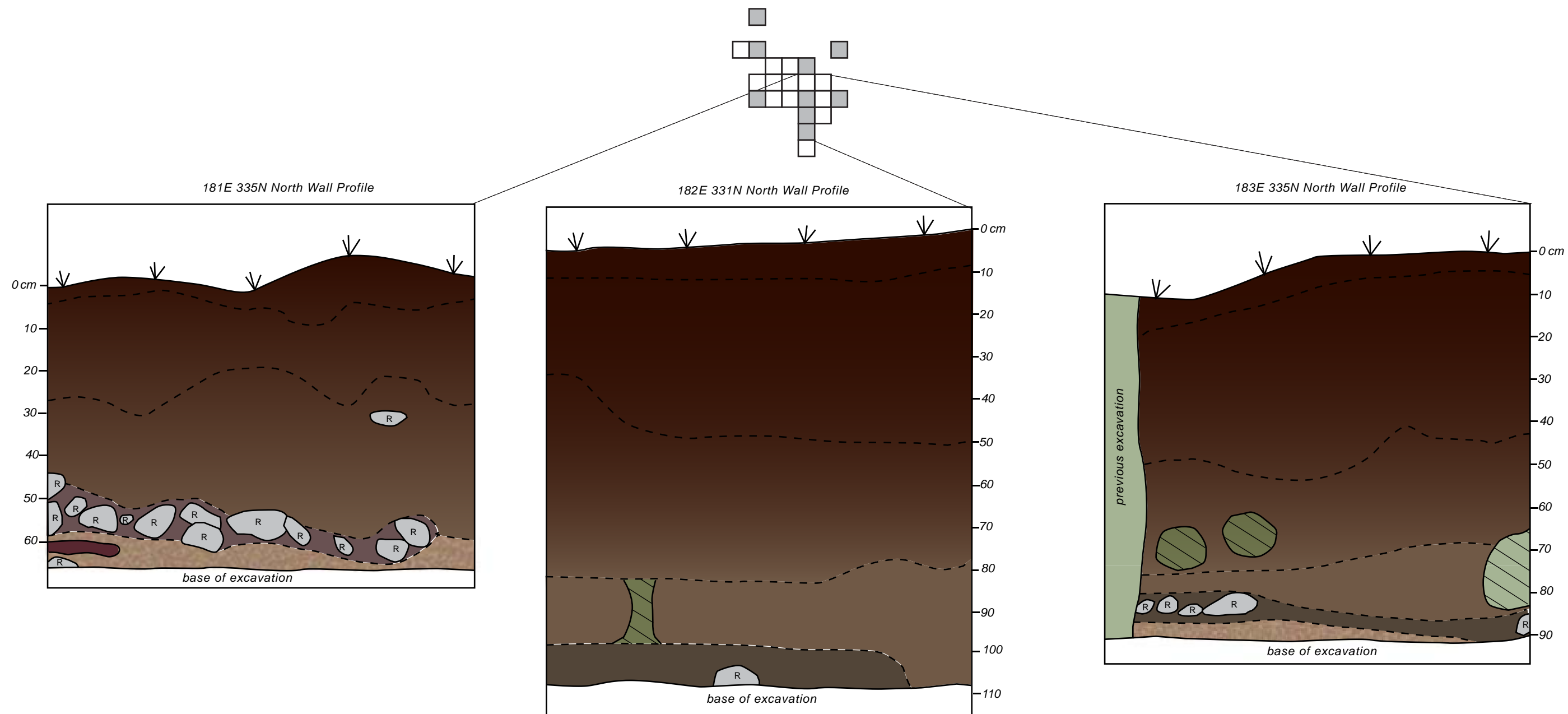
break in vegetation












Figure 12.
EgPn-735
Stage II Excavations

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-  (Ah) -SOD/Leaf Litter - dark grey brown silty loam, no gravel/rocks
-  (A1) dark grey brown silty loam, crumbly sediments
-  (A2) dark brown silts, few gravel/rocks
-  (B) yellow brown compact silts
-  (B2) reddish grey brown silt surrounding cobble layer
-  (B3) darker silts with occasional cobbles
-  (Paleosol) reddish-brown silt
-  (C) mottled yellow-brown clayey silt subsoil
-  backdirt from previous excavations (Permit 09-271)

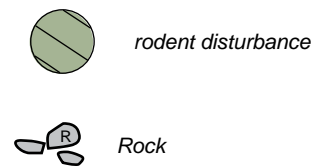
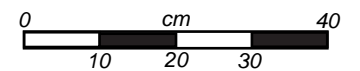


FIGURE 13.

EgPn-735

Soil Profiles

Project #CE04436.400.200 Drawn by: AD
 Date: Dec 2014 Checked by: NS
 Client: Alberta Transportation Revision No.: 1



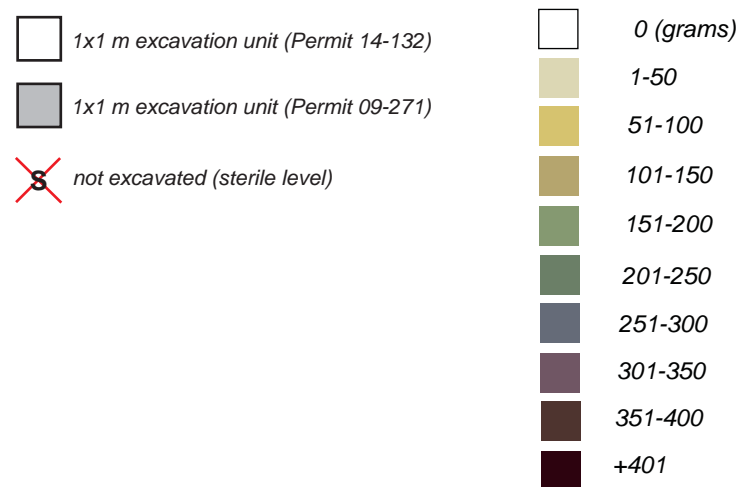
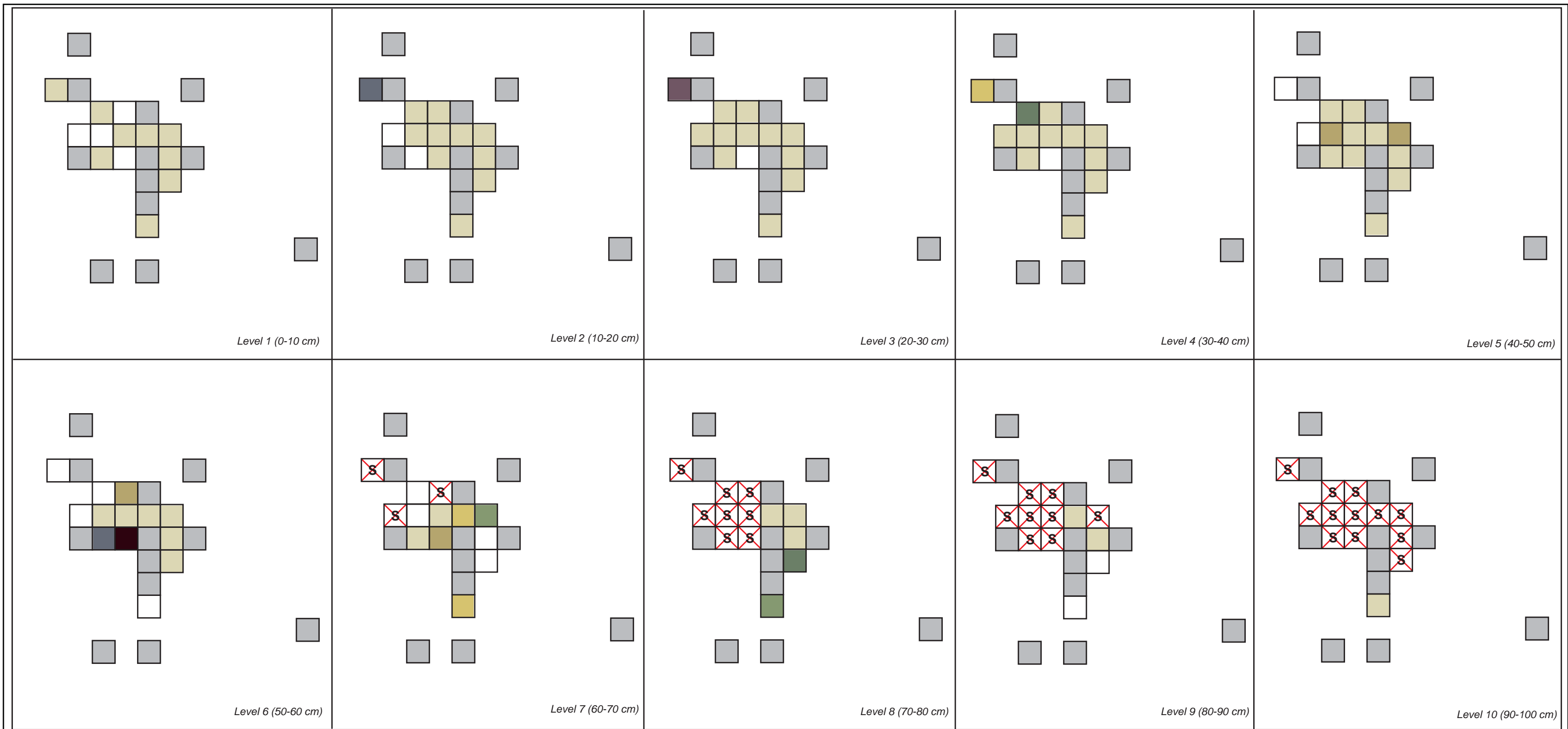
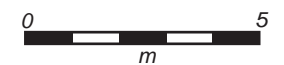


Figure 14.
EgPn-735 Stage II
Bone Debitage Concentrations by Level

Project #CE04436.400.200 Drawn by: AD
Date: Dec 2014 Checked by: NS
Client: Alberta Transportation Revision No.: 1



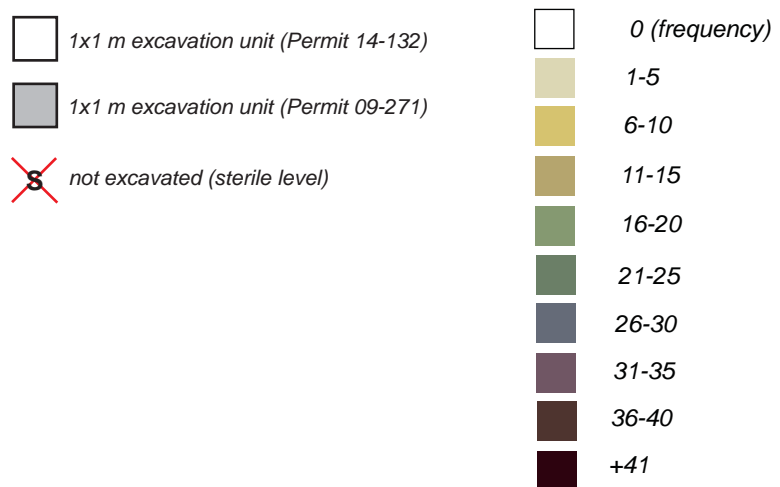
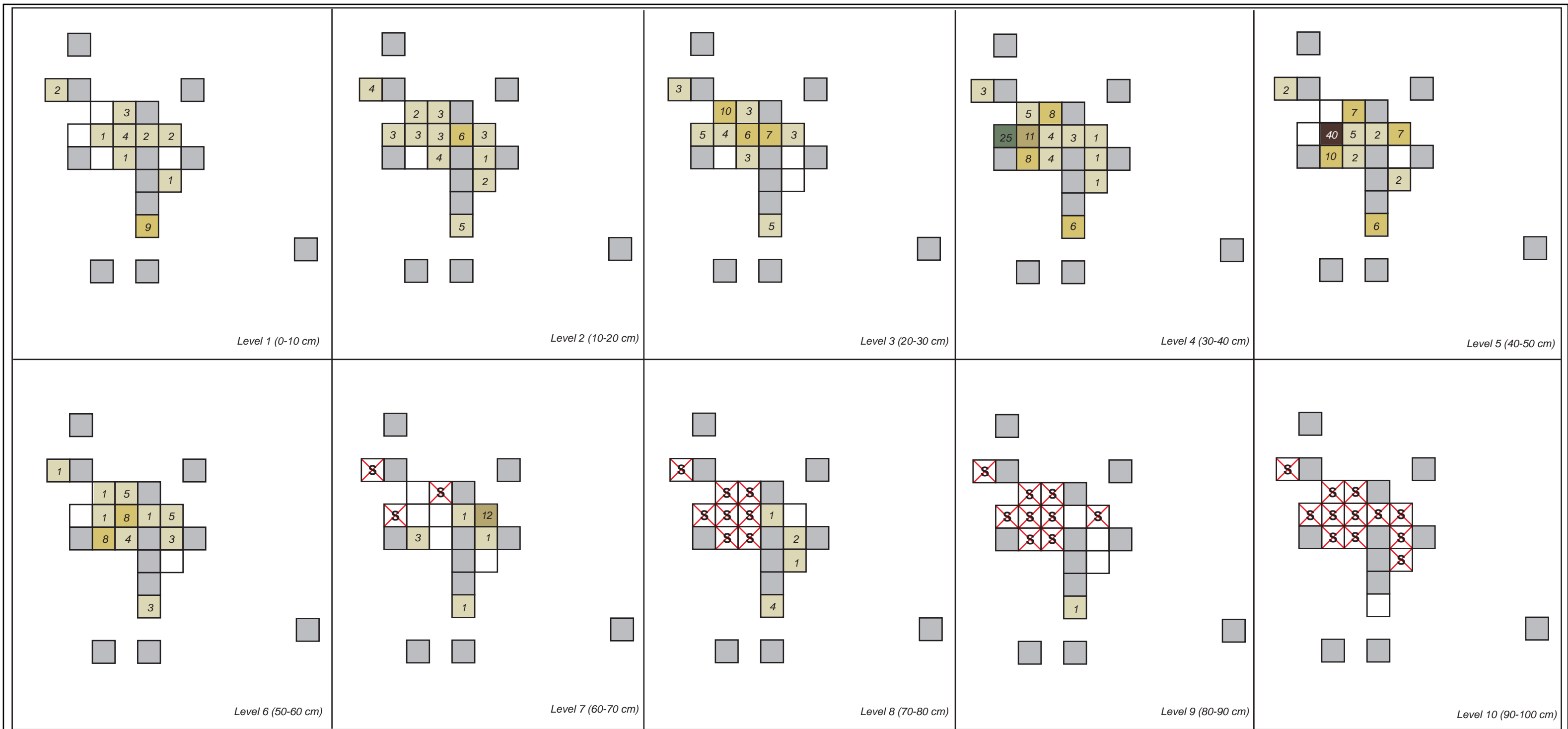
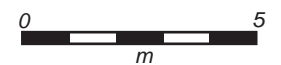


Figure 15.
EgPn-735 Stage II
Lithic Debitage Concentrations by Level

Project #CE04436.400.200 Drawn by: AD
 Date: Dec 2014 Checked by: NS
 Client: Alberta Transportation Revision No.: 1



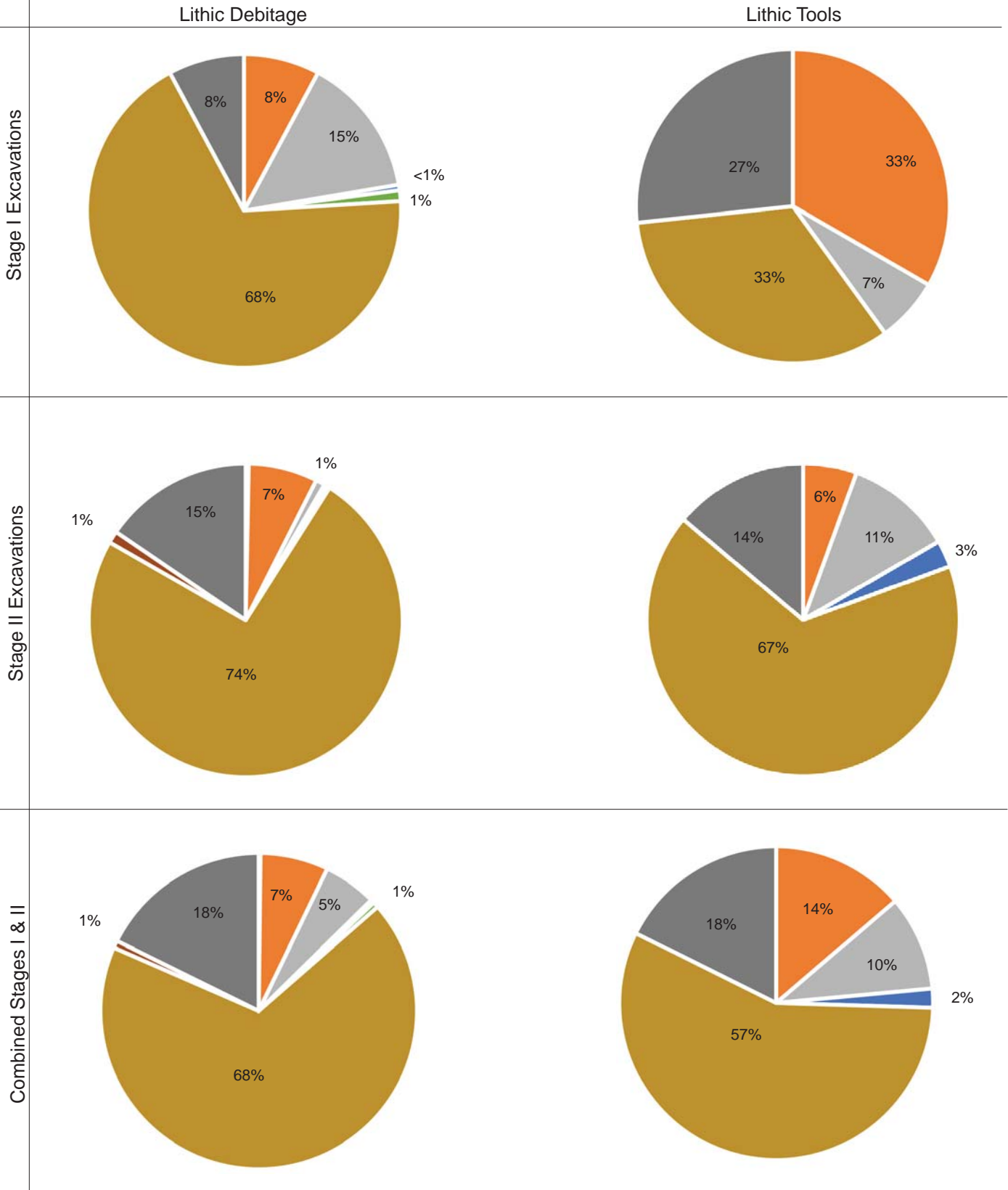
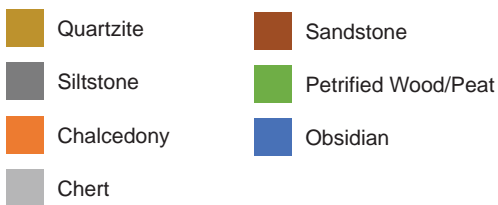
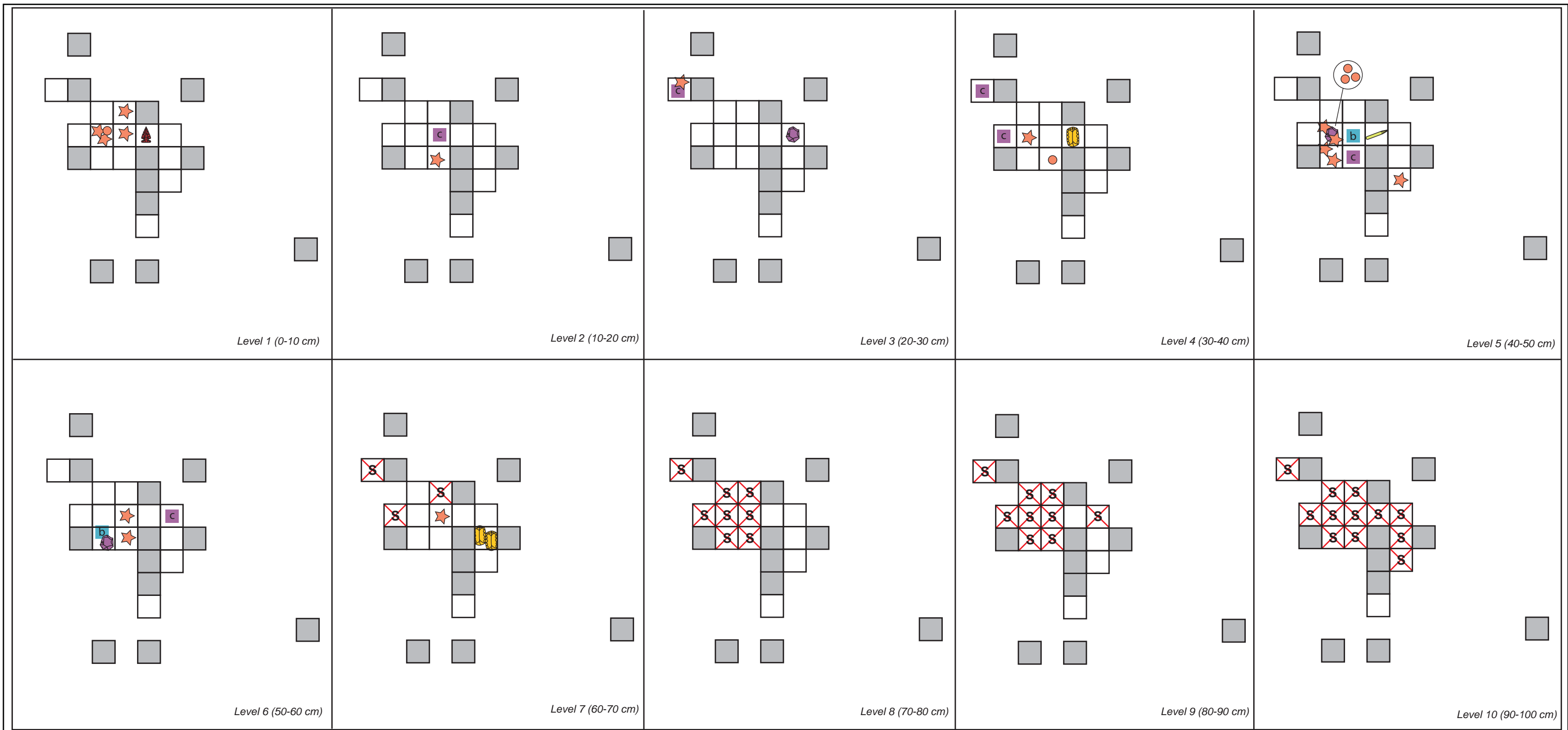


FIGURE 16.

EgPn-735 Lithic Raw Materials



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- 1x1 m excavation unit (Permit 14-132)
- 1x1 m excavation unit (Permit 09-271)
- not excavated (sterile level)
- biface fragment
- core
- core fragment
- projectile point fragment
- retouched flake
- scraper
- utilized flake
- bone awl



Figure 17.
EgPn-735 Stage II
Tool Concentrations by Level

Project #CE04436.400.200	Drawn by: AD
Date: Dec 2014	Checked by: NS
Client: Alberta Transportation	Revision No.: 1

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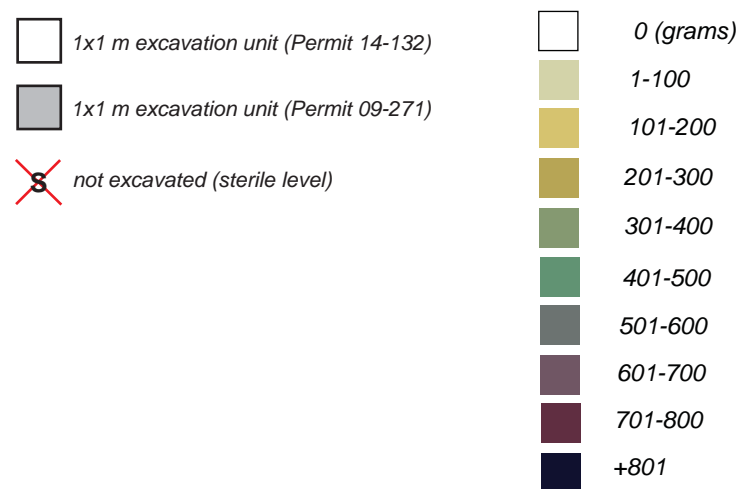
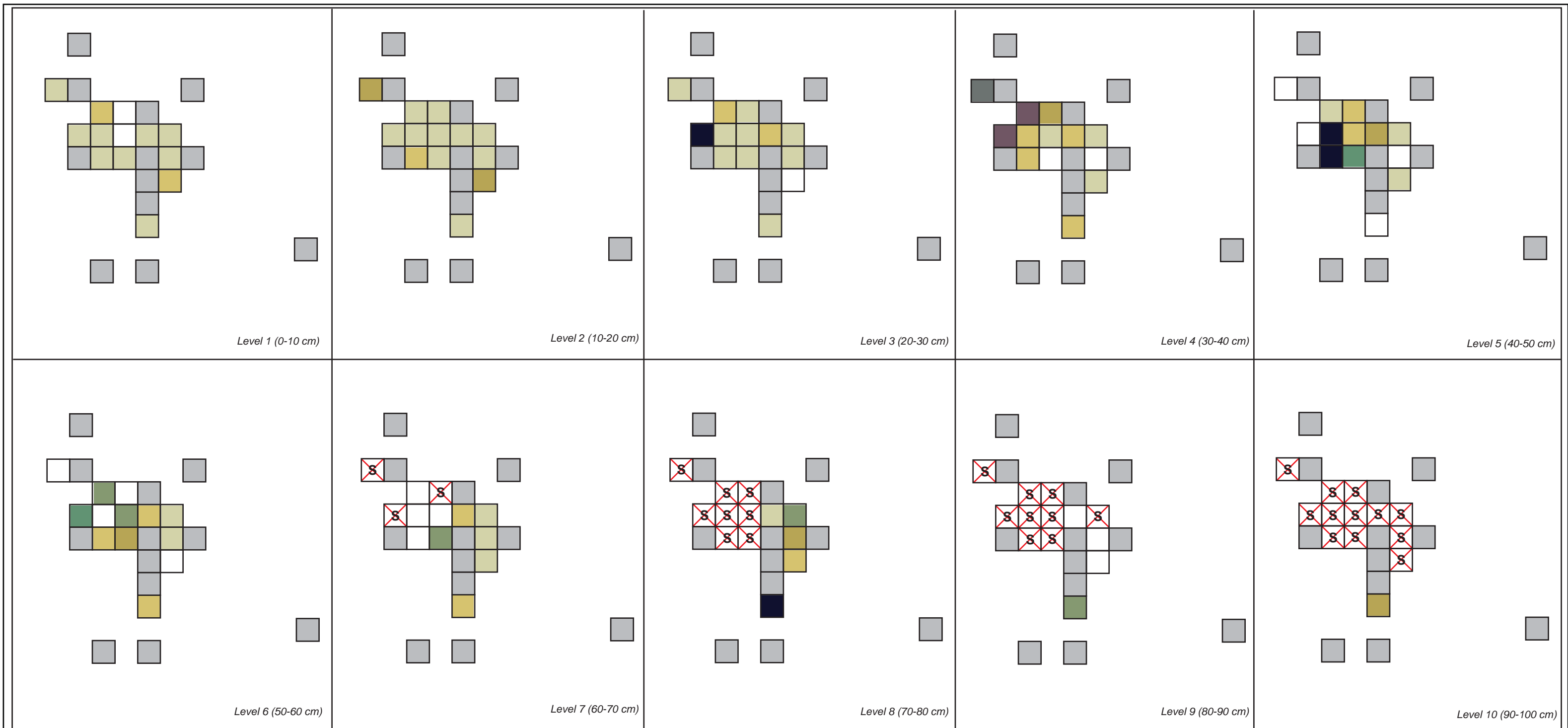
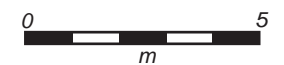


Figure 18.
EgPn-735 Stage II
Fire-Altered Rock Concentrations by Level

Project #CE04436.400.200 Drawn by: AD
Date: Dec 2014 Checked by: NS
Client: Alberta Transportation Revision No.: 1



HISTORICAL RESOURCES ACT CLEARANCE

NUMBER 4715-05-0012-003

Memorandum

From: David Link
Assistant Deputy Minister
Heritage Division

Our File Reference: 4715-05-0012-003
OPaC HR Appl:
007720725

Your File Reference:

To: Darren Carter
Alberta Transportation

Date: January 12, 2016

Phone: 780-431-2300

Subject: **HISTORICAL RESOURCES ACT APPROVAL WITH CONDITIONS**
ALBERTA TRANSPORTATION
SOUTHWEST CALGARY RING ROAD PROJECT - LANDS TRANSFERRED FROM
TSUU T'INA NATION

The attached Schedule outlines Alberta Culture and Tourism's requirements for the proposed footprint of the Southwest Calgary Ring Road Project - Lands Transferred from Tsuu T'ina Nation, as illustrated on the attached plan. These requirements involve a Historic Resources Impact Assessment for palaeontological resources (construction monitoring program) and avoidance of archaeological site EfPn-11.

HISTORICAL RESOURCES ACT APPROVAL WITH CONDITIONS

Historical Resources Act approval is granted to the Proponent for the Project, as illustrated on the attached plan and subject to the requirements outlined in the attached Schedule.

Should you require additional information or have any questions concerning these requirements, please contact Barry Newton, Land Use Planner, at 780-431-2330 (toll-free by first dialing 310-0000) or barry.newton@gov.ab.ca.

I would like to thank representatives of Alberta Transportation for their cooperation in our endeavour to conserve the Province's historic resources.



David Link, PhD
Assistant Deputy Minister

Attachments

Historic Resources Application

Activity Administration

Date Received: August 25, 2015

HRA Number: 4715-05-0012-003

Project Category: Transportation - Urban, Municipal and Local Roads and Other Transportation Projects (4715)

Application Purpose: Requesting HRA Approval / Requirements

Lands Affected All New Lands

Project Type: Urban Road
 GIS Shapefiles are attached (yes/no) yes
 Approximate Project Area (ha) 310.55 ha

Project Name: Southwest Calgary Ring Road Project - Lands Transferred from Tsuu T'ina Nation

Additional Name(s):

Key Contact:	Dr. Christy de Mille	Affiliation:	Lifeways of Canada Limited
Address:	#105 809 Manning Road NE	City / Province:	Calgary, AB
Postal Code:	T2E 7M9	Phone:	(403) 730-9461
E-mail:	christy@lifewaysofcanada.com	Fax:	() -
		Your File Number:	

Proponent:	Alberta Transportation	Contact Name:	Darren Carter
Address:	2nd Floor, Twin Atria Building 4999-98 Ave.	City / Province:	Edmonton, AB
Postal Code:	T6B 2X3	Phone:	(780) 644-4499
E-mail:	Darren.Carter@gov.ab.ca	Fax:	() -

Proposed Development Area					Land Ownership			
MER	RGE	TWP	SEC	LSD List	FRH	SA	CU	CT
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Historical Resources Impact Assessment:

For archaeological resources:

Has a HRIA been conducted?

Yes No

Permit Number (if applicable):

For palaeontological resource:

Has a HRIA been conducted?

Yes No

Permit Number (if applicable):

Historical Resources Act approval is granted for the activities described on this application and its attached plan(s)/sketch(es) subject to the conditions specified in the attached document(s).



David Link

January 15, 2016

Date

ATTACHMENT 1

STANDARD REQUIREMENTS UNDER THE *HISTORICAL RESOURCES ACT*: REPORTING THE DISCOVERY OF HISTORIC RESOURCES

If proponents and/or their agents become aware of historic resources during the course of development activities, they are required, under Section 31 of the *Historical Resources Act*, to report these discoveries to the Heritage Division of Alberta Culture and Tourism. This requirement applies to all activities in the Province of Alberta.

1.0 REPORTING THE DISCOVERY OF ARCHAEOLOGICAL RESOURCES

The discovery of archaeological resources is to be reported to Eric Damkjar, Head, Archaeology, at 780-431-2346 (toll-free by first dialing 310-0000) or eric.damkjar@gov.ab.ca.

2.0 REPORTING THE DISCOVERY OF PALAEOLOGICAL RESOURCES

The discovery of palaeontological resources is to be reported to Dan Spivak, Head, Resource Management, Royal Tyrrell Museum of Palaeontology, at 403-820-6210 (toll-free by first dialing 310-0000) or dan.spivak@gov.ab.ca.

3.0 REPORTING THE DISCOVERY OF HISTORIC PERIOD SITES

The discovery of historic period sites is to be reported to Brenda Manweiler, Manager, Historic Places Research and Designation Program, at 780-431-2309 (toll-free by first dialing 310-0000) or brenda.manweiler@gov.ab.ca. Please note that some historic period sites may also be considered Aboriginal traditional use sites.

4.0 REPORTING THE DISCOVERY OF ABORIGINAL TRADITIONAL USE SITES

The discovery of any Aboriginal traditional use site that is of a type listed below is to be reported to Valerie Knaga, Director, Aboriginal Heritage Section, at 780-431-2371 (toll-free by first dialing 310-0000) or valerie.knaga@gov.ab.ca.

Aboriginal Traditional Use sites considered by Alberta Culture and Tourism to be historic resources under the *Historical Resources Act* include:

Historic cabin remains;
Historic cabins (unoccupied);
Cultural or historical community camp sites;

ATTACHMENT 1

STANDARD REQUIREMENTS UNDER THE *HISTORICAL RESOURCES ACT*: REPORTING THE DISCOVERY OF HISTORIC RESOURCES

Ceremonial sites/Spiritual sites;
Gravesites;
Historic settlements/Homesteads;
Historic sites;
Oral history sites;
Ceremonial plant or mineral gathering sites;
Historical Trail Features; and,
Sweat/Thirst/Fasting Lodge sites

5.0 FURTHER SALVAGE, PRESERVATIVE OR PROTECTIVE MEASURES

If previously unrecorded historic resources are discovered, proponents may be ordered to undertake further salvage, preservative or protective measures or take any other actions that the Minister of Alberta Culture and Tourism considers necessary.

HISTORICAL RESOURCES ACT APPROVAL WITH CONDITIONS

**ALBERTA TRANSPORTATION
SOUTHWEST CALGARY RING ROAD PROJECT - LANDS TRANSFERRED FROM
TSUU T'INA NATION**

HISTORIC RESOURCES MANAGEMENT PROJECT FILE: 4715-05-0012-003

SCHEDULE

For the purposes of this Schedule, Alberta Transportation shall be referred to as the “Proponent” and Southwest Calgary Ring Road Project - Lands Transferred from Tsuu T’ina Nation shall be referred to as the “Project.”

Part I provides the Proponent with *Historical Resources Act* approval for components of the Project while Part II outlines the terms and conditions attached to this approval.

I. HISTORICAL RESOURCES ACT APPROVAL

Historical Resources Act approval is granted to the Proponent for the Project, as illustrated on the attached plan, subject to the conditions outlined below.

II. CONDITIONS OF APPROVAL

Historical Resources Act approval is granted on the understanding that a targeted Historic Resources Impact Assessment for palaeontological resources will be undertaken. In addition, archaeological site EgPn-11 is to be avoided.

1.0 ARCHAEOLOGICAL RESOURCES

The potential for the Project to affect archaeological resources is high. Archaeological site EfPn-11 is considered to be of archaeological significance (HRV 4) and is located within the Project area.

1.1.1 Alberta Regulation 254/2002

Archaeological investigations conducted under permit in Alberta are subject to the conditions stated within Alberta Regulation 254/2002, *Archaeological and Palaeontological Research Permit Regulation*, conditions set forth in the approved

permit, and any other conditions that the Minister of Alberta Culture and Tourism imposes under Section 30 of the *Historical Resources Act*.

1.1.2 Contacting the Archaeological Survey

For further information regarding the acquisition of an archaeological research permit and/or consulting archaeologists' obligations under Alberta Regulation 254/2002, please contact Martina Purdon, Head, Regulatory Approvals & Information Management, at 780-431-2331 (toll-free by first dialing 310-0000) or martina.purdon@gov.ab.ca.

1.2 Avoidance

Archaeological site EfPn-11 is considered to be of archaeological significance and will require either complete avoidance or additional studies as identified in Table 1.0 below. There are no further archaeological requirements for any of the other sites recorded in the Project area.

2.0 PALAEOLOGICAL RESOURCES

The potential for this Project to affect palaeontological resources is high.

2.1 Historic Resources Impact Assessment

Pursuant to Section 37(2) of the *Historical Resources Act* a Historic Resources Impact Assessment for palaeontological resources is to be conducted on behalf of the Proponent by a palaeontologist qualified to hold a palaeontological research permit within the Province of Alberta. The Historic Resource Impact Assessment is to consist of a monitoring program. A permit must be issued by Alberta Culture and Tourism prior to the initiation of any palaeontological field investigations. Please allow ten working days for the permit application to be processed.

2.1.1 Alberta Regulation 254/2002

Palaeontological investigations conducted under permit in Alberta are subject to the conditions stated within Alberta Regulation 254/2002, *Archaeological and Palaeontological Research Permit Regulation*, conditions set forth in the approved permit, and any other conditions that the Minister of Alberta Culture and Tourism imposes under Section 30 of the *Historical Resources Act*.

2.1.2 Contacting the Royal Tyrrell Museum of Palaeontology

For further information regarding the acquisition of a palaeontological research permit, the conduct of the required Historic Resources Impact Assessment for palaeontology and/or consulting palaeontologists' obligations under Alberta Regulation 254/2002, please contact Dan Spivak, Head, Resource Management, Royal Tyrrell Museum of Palaeontology, at 403-820-6210 (toll-free by first dialing 310-0000) or dan.spivak@gov.ab.ca.

2.1.3 Coverage

A monitoring program is required for the two proposed water crossings (Fish Creek, Elbow River/Weaselhead). Should significant palaeontological resources be encountered during the conduct of the monitoring program the Royal Tyrrell Museum of Palaeontology must be contacted. It may then be necessary for Alberta Culture and Tourism to issue further instructions regarding these resources.

2.1.4 Timing

No excavation activities are to take place at the the two proposed water crossings (Fish Creek, Elbow River/Weaselhead) until a professional consulting palaeontologist is on-site to monitor construction activities.

2.2 Reporting the Results of the Historic Resources Impact Assessment for Palaeontology

2.2.1 Submission of Specimen Data Sheets

The Proponent's consulting palaeontologist is required to submit palaeontological specimen data sheets for each fossil collected during mitigative studies.

2.2.2 Submission of Final Report

A digital copy of the final report must be submitted within 180 days after the expiration of the permit or at least six weeks prior to the anticipated conduct of land surface disturbance activities, or upon completion of a required monitoring program, whichever comes first. The final report is to be submitted by the Proponent's consulting palaeontologist to the Historic Resources Management Branch, Heritage Division, Alberta Culture and Tourism using the Online Permitting and Clearance (OPaC) system (www.opac.alberta.ca).

2.2.3 Submission of Interim Report(s)

Should the Proponent find it necessary to obtain *Historical Resources Act* approval for portions or all of the lands affected by the Project prior to the submission of the final report, Alberta Culture and Tourism will consider accepting the submission of an interim report or reports.

3.0 STANDARD CONDITIONS UNDER THE *HISTORICAL RESOURCES ACT*

The Proponent must comply with standard conditions under the *Historical Resources Act*, which are applicable to all land surface disturbance activities in the Province. Standard conditions require applicants to report the discovery of historic resources. These requirements are stated in Attachment 1, *Standard Requirements under the Historical Resources Act: Reporting the Discovery of Historic Resources*.

4.0 FURTHER SALVAGE, PRESERVATIVE OR PROTECTIVE MEASURES

Based upon the results of the Historic Resources Impact Assessment, the Proponent may be ordered to undertake further salvage, preservative or protective measures or take any other actions that the Minister responsible for the *Historical Resources Act* considers necessary.

5.0 REQUESTS FOR *HISTORICAL RESOURCES ACT* APPROVAL

Based upon the results of the Historic Resources Impact Assessment, Alberta Culture and Tourism may consider granting *Historical Resources Act* approval to all or portions of the Project area. In the final report and any interim report(s) the Proponent's consultant(s) must identify and illustrate clearly those portions of the Project area for which *Historical Resources Act* approval is requested.

6.0 PRE-EMINENCE OF *HISTORICAL RESOURCES ACT* REQUIREMENTS

Should the conditions included within this Schedule be at variance with any instructions associated with the *Listing of Historic Resources* and/or the permit application(s), the conditions of the Schedule take precedence. Following instructions as outlined in this Schedule should result in the granting of *Historical Resources Act* approval and/or the issuance of requirements regarding further historic resources studies in a timely manner.

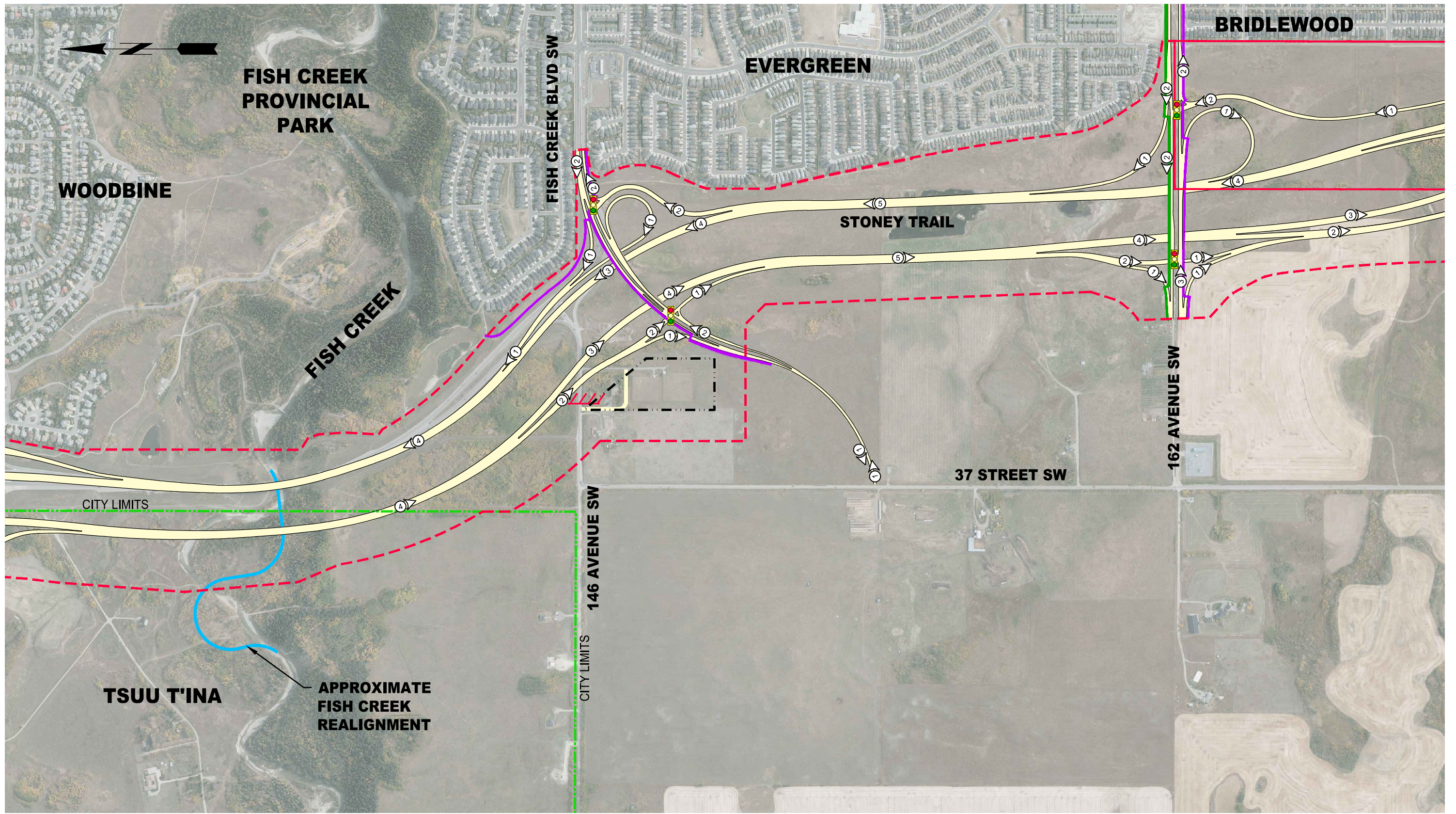
7.0 COMPLIANCE IS MANDATORY

These conditions shall be considered directions of the Minister of Alberta Culture and Tourism under the *Historical Resources Act*. The Proponent and agents acting on behalf of the Proponent are required to become knowledgeable of the conditions. Failure to abide by the conditions will result in *Historical Resources Act* approval not being granted, or delayed.

**ALBERTA TRANSPORTATION
SOUTHWEST CALGARY RING ROAD PROJECT - LANDS TRANSFERRED FROM TSUU T'INA NATION
URBAN ROAD
HISTORICAL RESOURCES ACT REQUIREMENTS/APPROVAL
(PROJECT FILE: 4715-05-0012-003)**

TABLE 1.0

SITE	HRV	LEGAL DESCRIPTION	SITE DESCRIPTION	REQUIREMENTS/APPROVAL
EfPn-11 New	4	LSD 10-26-23-2-W5M	Prehistoric surface/subsurface campsite	<i>Historical Resources Act</i> approval is granted for the alignment to proceed as planned in the vicinity of site EfPn-11. However, a staged mitigation program in the form of 8 m2 at the central area of the site and 12 m2 at the eastern site area will be required should future developments threaten to impact the site.



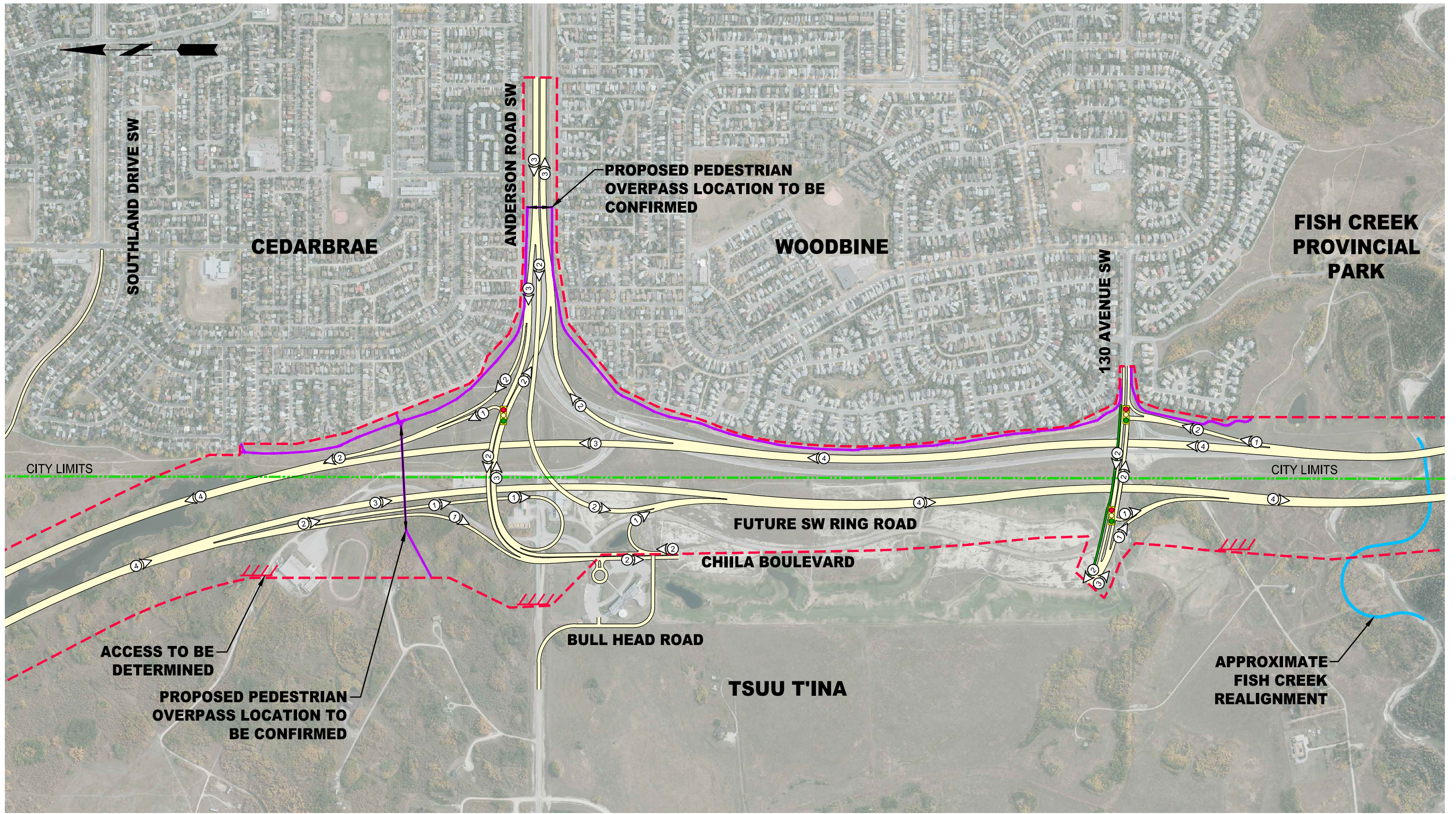
- TRANSPORTATION / UTILITY CORRIDOR
- PROPOSED SIDEWALK
- PROPOSED PATHWAY
- - - - PROPOSED TRANSPORTATION / UTILITY CORRIDOR
- //// ROAD CLOSURE
- ① PROPOSED NUMBER OF LANES AND DIRECTION OF TRAVEL

AERIAL PHOTO 2012

SOUTHWEST CALGARY RING ROAD

Fish Creek Boulevard SW / 162 Avenue SW Interchanges





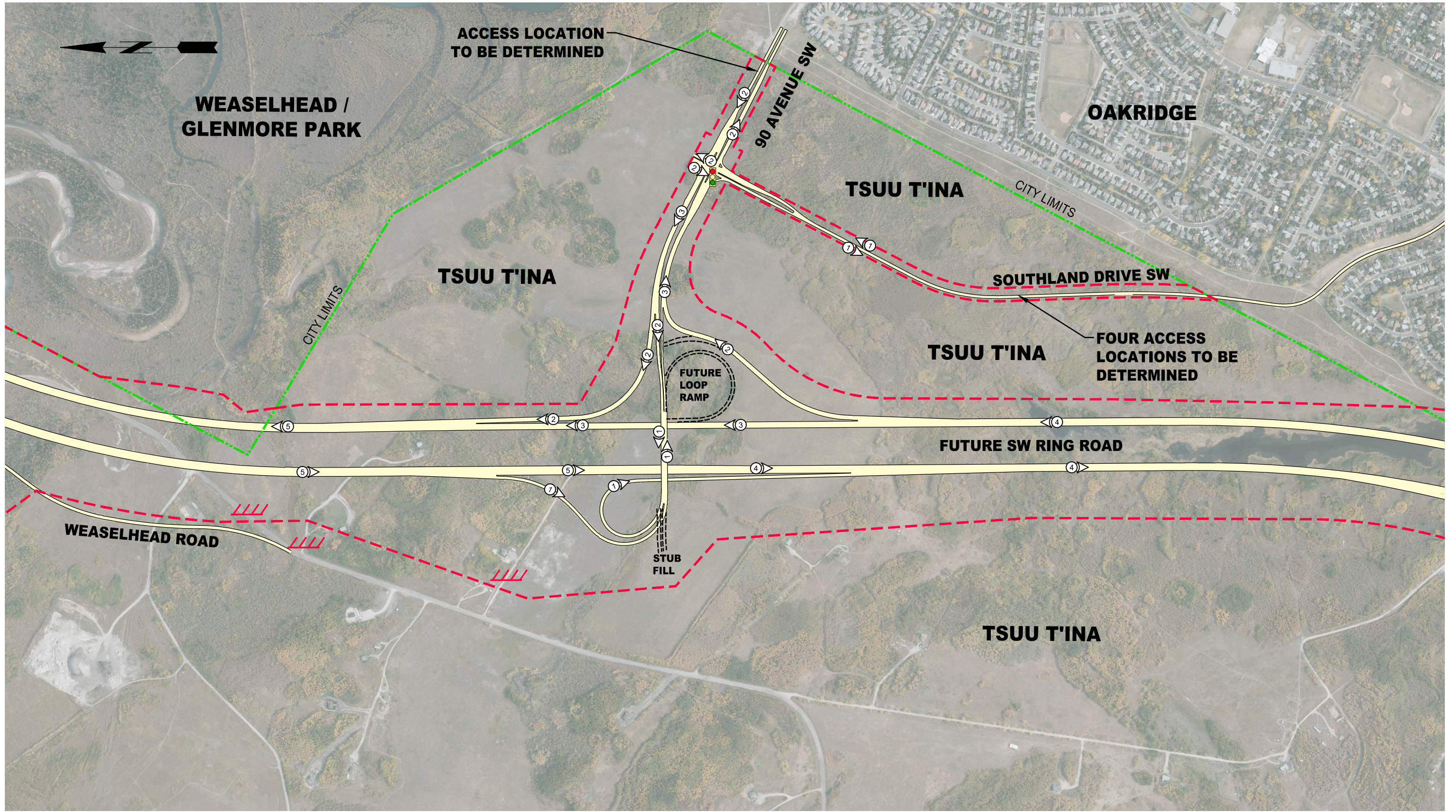
- TRANSPORTATION / UTILITY CORRIDOR
- PROPOSED SIDEWALK
- PROPOSED PATHWAY
- - - - PROPOSED TRANSPORTATION / UTILITY CORRIDOR
- //// ROAD CLOSURE
- ① PROPOSED NUMBER OF LANES AND DIRECTION OF TRAVEL

AERIAL PHOTO 2012

SOUTHWEST CALGARY RING ROAD

Anderson Road SW / 130 Avenue SW Interchanges



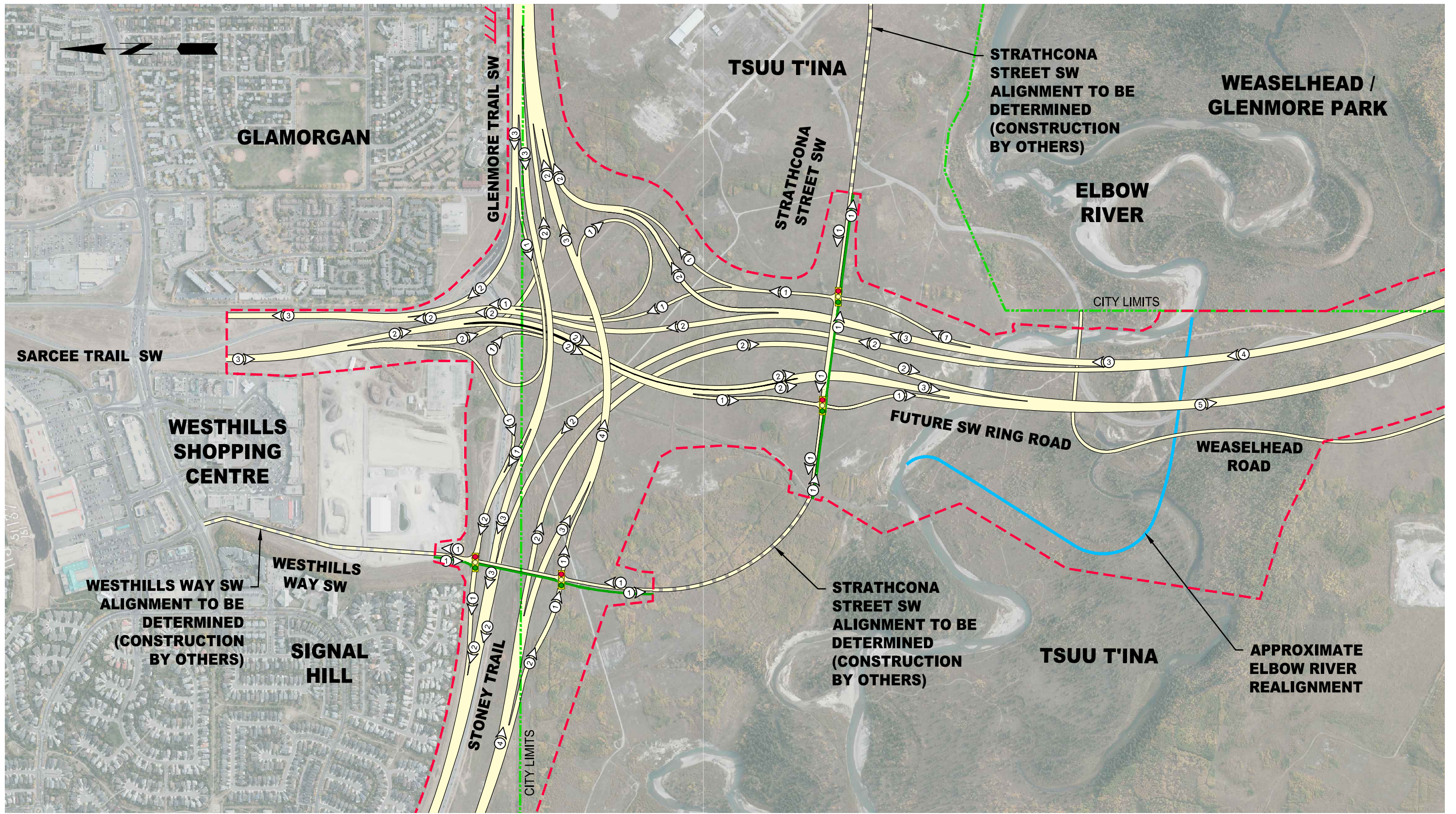


- TRANSPORTATION / UTILITY CORRIDOR
- PROPOSED SIDEWALK
- PROPOSED PATHWAY
- ① PROPOSED NUMBER OF LANES AND DIRECTION OF TRAVEL
- - - - PROPOSED TRANSPORTATION / UTILITY CORRIDOR
- //// ROAD CLOSURE

AERIAL PHOTO 2012

SOUTHWEST CALGARY RING ROAD

90 Avenue SW Interchange

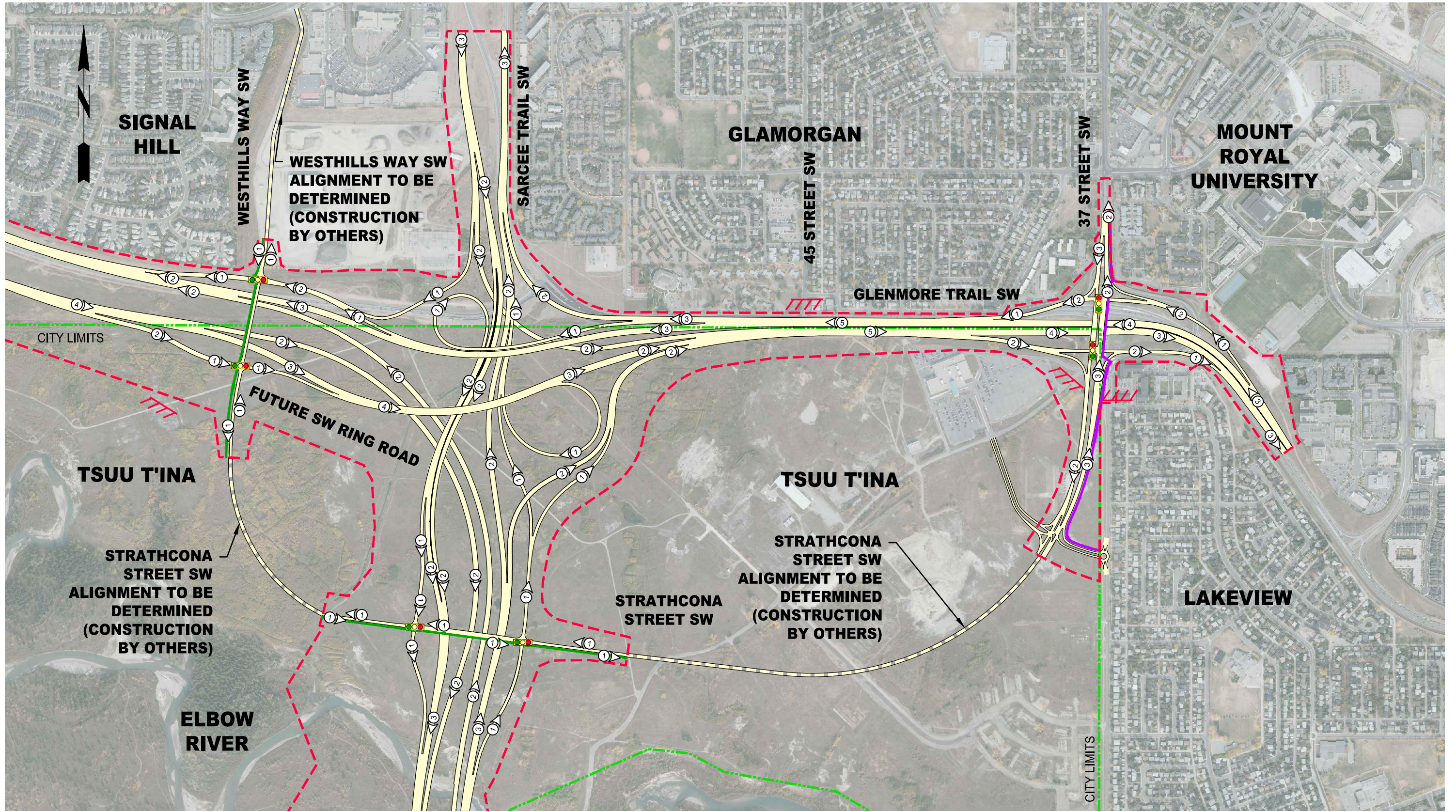


AERIAL PHOTO 2012

SOUTHWEST CALGARY RING ROAD

Sarcee Trail SW / Glenmore Trail SW / Strathcona Street SW Interchanges





- TRANSPORTATION / UTILITY CORRIDOR
- PROPOSED SIDEWALK
- PROPOSED PATHWAY
- - - - PROPOSED TRANSPORTATION / UTILITY CORRIDOR
- //// ROAD CLOSURE
- ① PROPOSED NUMBER OF LANES AND DIRECTION OF TRAVEL

AERIAL PHOTO 2012

SOUTHWEST CALGARY RING ROAD

Sarcee Trail SW / Glenmore Trail SW / 37 Street SW
Westhills Way SW / Strathcona Street SW Interchanges

