

Appendix B – Masonry Rock Walls and Details

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| 1 | 16/03/23 | Issued for Tender | J.G. | - |
|-----|----------|---------------------------|-------------------------|----------------------|
| 0 | 16/02/22 | Issued for 95% Submission | J.G. | - |
| No. | Date | Description | Drawn by Dessiné par | Approved Approuvé |

| Revision / Revision | |
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| A | Detail number A Numéro de détail |
| B | Sheet number B Numéro de la feuille |
| Linear dimensions in millimetres | |
| Dimensions linéaires en millimètres | |

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| Consultant's Name Nom de l'expert-conseil | Eng. Stamp |
| AECOM | |

| | |
|---|---|
| Parks Canada | Parcs Canada |
| Asset Management Western and Northern Region | Gestion des biens Région de l'Ouest et du Nord |
| Canada | |

Project title/Titre du projet
**ROCK WALL PROJECT
BANFF NATIONAL PARK**

Drawing title/Titre du dessin
KEY PLAN

| | | |
|---|--------------------------|----------------------------|
| Surveyed by/Arpenté par | Drawn by/Dessiné par | Date |
| | J.G. | 16/03/23 |
| Designed by/Concept par | Reviewed by/Revisé par | Scale/Echelle |
| | T.W./L.T. | AS SHOWN |
| Client Acceptance/Acceptation du client | Approved by/Approuvé par | |
| | | |
| Project No./N° du projet | Asset No./N° du bien | Sheet No./N° de la feuille |
| 60480648 | | G-100 |
| Drawing Set No./N° de série du dessin | | |
| 60480648 | | |

APPENDIX 'B'

PARKS CANADA

BANFF NATIONAL PARK

ROCK WALL PROJECT

AECOM PROJECT No. 60480648

LEGEND AND SHEET LIST

| SITE | DRAWING NO. | DESCRIPTION |
|------|-------------|--|
| - | G-100 | KEY PLAN |
| 1 | L-100 | CASTLE MOUNTAIN VIEWPOINT - ROCK WALL |
| 2 | L-200 | HILLSIDE MEADOWS - BOY SCOUT CAIRN AND ROCK WALL |
| 3 | L-300 | FIRESIDE DAY USE AREA - FIREPLACE |
| 4 | L-400 | NORQUAY ROAD VIEWPOINT - ROCK WALL |
| 5 | L-500 | 224 BANFF AVENUE (VISITORS CENTRE) - ROCK WALL |
| 6 | L-600 | 117 BEAVER STREET - FRONT ENTRY |
| 7 | L-700 | 116 PARK AVENUE - ROCK WALL |
| 8 | L-800 | 553 MARMOT STREET - ROCK WALL |
| 8 | L-801 | 553 MARMOT STREET - DETAILS |
| 8 | L-802 | 553 MARMOT STREET - DETAILS |
| 9 | L-900 | DOWLING CAIRN |
| 10 | L-1000 | TWO JACK LAKESIDE CAMPGROUND - FIREPLACE |
| 11 | L-1100 | MINNEWANKA LOOP VIEWPOINT - ROCK WALL |

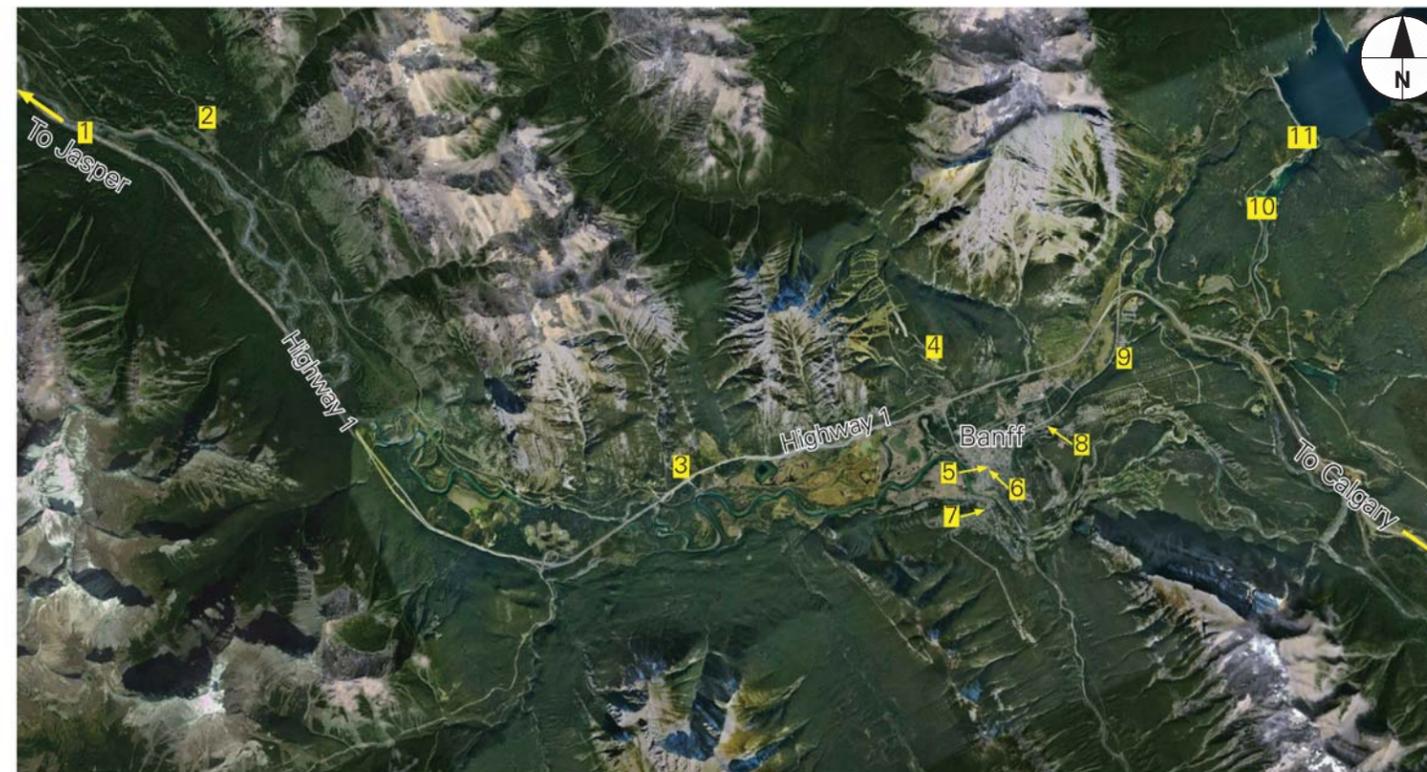
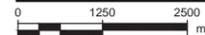


Image Source: Google

KEY PLAN



Scale: 1:50,000

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The Association of Professional Engineers and Geoscientists of Alberta

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| 0 | 16/02/22 | Issued for 95% Submission | J.G. | - |
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| A | Detail number A Numéro de détail |
| B | Sheet number B Numéro de la feuille |
| Linear dimensions in millimetres | |
| Dimensions linéaires en millimètres | |

Consultant's Name
Nom de l'expert-conseil

AECOM

Eng. Stamp

Parks Canada / Parcs Canada

Asset Management / Gestion des biens
Western and Northern Region / Région de l'Ouest et du Nord

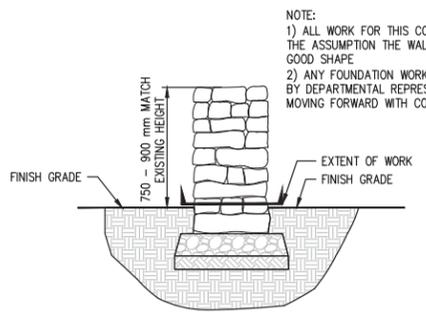
Canada

SCOPE OF WORK

- A. REPLACE MISSING STONE ~ 125.0 Lm. LENGTH X 750 mm WIDTH X 150-300 mm HEIGHT 50 LOCATIONS ALONG WALL ~ 2.5 Lm. PER LOCATION REPLACE ROCK AND REPAIR MORTAR. TOTAL = 125.0 Lm. OF REPAIR
- B. REPLACE MISSING STONE ~ 150 mm LENGTH X 150 mm WIDTH X 75 mm HEIGHT. REPLACE ROCK AND REPAIR MORTAR
- C. REPLACE MISSING STONE ~ 200 mm LENGTH X 150 mm WIDTH X 75 mm HEIGHT. REPLACE ROCK AND REPAIR MORTAR
- D. REPLACE MISSING STONE ~ 500 mm LENGTH X 150 mm WIDTH X 75 mm HEIGHT. REPLACE ROCK AND REPAIR MORTAR
- E. REBUILD TOP HALF OF WALL TO A MAX. HEIGHT OF EXISTING WALL (~ 900 mm ABOVE FINISH GRADE) ~ 3.75 Lm. LENGTH X 750 mm WIDTH X 900 mm HEIGHT
- F. REPLACE MISSING STONE ~ 500 mm LENGTH X 150 mm WIDTH X 75 mm HEIGHT. REPLACE ROCK AND REPAIR MORTAR
- G. TOP OF WALL ADJACENT TO ROAD TO BE REBUILT 60 Lm. LENGTH X 150-300 mm WIDTH X 750 mm HEIGHT. ASSUME FOUNDATION IS STABLE

OVERALL WORK

- REPOINT LOOSE MORTAR - MATCH EXISTING



NATURAL STONE WALL - SECTION

Scale: 1:20

MASONRY NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. MASONRY:
 - MORTAR TYPE S - REFER TO SPECIFICATIONS
3. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
 - MASONRY: CSA A371-14 MASONRY CONSTRUCTION FOR BUILDING
4. MATERIALS SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - MORTAR AND GROUT: CSA A179-14, MORTAR AND GROUT FOR UNIT MASONRY
 - REINFORCED STEEL: CAN/CSA G30. 18-09, GRADE 400
5. NORMAL JOINT SIZE TO BE 10 mm
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO UNDER OR ABOVE GROUND SERVICES.

GENERAL NOTES:

- SITE WORK**
1. CONTRACTOR TO CALL ALBERTA ONE CALL AT 1-800-242-3447, AND ALL OTHER UTILITIES, AS REQUIRED, TO HAVE EXISTING UTILITIES LOCATED PRIOR TO START OF ANY CONSTRUCTION.
 2. CONTRACTOR IS TO VISIT THE SITE TO CONFIRM ALL SITE CONDITIONS PRIOR TO SUBMITTING BIDS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION.
 3. CONTRACTOR IS RESPONSIBLE FOR THE HOARDING OF ALL TREES WITHIN OR ADJACENT TO CONSTRUCTION AREAS, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
 4. CONTRACTOR IS RESPONSIBLE FOR HAULING OF ALL EXCESS MATERIALS OFF THE SITE TO A LOCATION APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
 5. CONTRACTOR IS RESPONSIBLE FOR GENERAL SITE CLEANUP.
 6. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO LANDSCAPED AREAS AND MUST MAKE ALL NECESSARY RESTORATIONS AND REPAIRS, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
 7. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION METHODS

- PERMITS AND STANDARDS**
1. ALL ANCILLARY WORK NORMALLY ASSOCIATED WITH THIS TYPE OF CONSTRUCTION SHALL BE DEEMED TO BE PART OF THE CONTRACT.

MATERIALS

1. THE CONTRACTOR SHALL SUPPLY ALL MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS. ANY DISCREPANCIES IN QUANTITIES SHALL BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR DIRECTION.
2. NO SUBSTITUTION OF MATERIAL, PRODUCTS OR QUANTITIES SHALL BE PERMITTED WITHOUT PRIOR CONSENT OF THE DEPARTMENTAL REPRESENTATIVE.

GENERAL

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2. ANY AMBIGUITY IN THIS DRAWING OR ACCOMPANYING DETAILS IS TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR DIRECTION. THE CONTRACTOR IS NOT TO PROCEED IN UNCERTAINTY.
3. LIMITS OF THE WORK ARE TO BE CLEARLY UNDERSTOOD BY THE CONTRACTOR PRIOR TO ANY WORK TAKING PLACE ON SITE. THE CONTRACTOR IS TO CONTACT THE DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION IF REQUIRED.
4. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO DEPARTMENTAL REPRESENTATIVE.
5. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

Project title/Titre du projet
**ROCK WALL PROJECT
BANFF NATIONAL PARK**

Drawing title/Titre du dessin
**CASTLE MOUNTAIN VIEWPOINT
ROCK WALL**

| | | |
|---|-------------------------------------|----------------------------|
| Surveyed by/Arpenté par J.G. | Drawn by/Dessiné par J.G. | Date 16/03/23 |
| Designed by/Concept par T.W./L.T. | Reviewed by/Revisé par T.W./L.T. | Scale/Echelle AS SHOWN |
| Client Acceptance/Acceptation du client | | Approved by/Approuvé par |
| Project No./N° du projet | | Sheet No./N° de la feuille |
| Drawing Set No./N° de série du dessin 60480648 | | L-100 |

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SCOPE OF WORK

- A. PORTION OF WALL HAS BROKEN OFF FROM EXISTING STRUCTURE - 1.75 l.m. LENGTH X 200 mm WIDTH X 250 mm HEIGHT(±). REBUILD WITH EXISTING STONE, AND ENSURE 'NEW' PORTION OF WALL IS TIED INTO EXISTING WALL - REFER TO DETAIL THIS SHEET
- B. DAMAGE AT TOP OF WALL - 1.5 l.m. LENGTH X 150 mm WIDTH X 200 mm HEIGHT - REBUILD WITH EXISTING STONE
- C. CAIRN - REPLACE MISSING STONE - 150 mm LENGTH X 150 mm WIDTH X 50 mm HEIGHT. REPLACE ROCK AND REPAIR MORTAR
- D. REPOINT LOOSE MORTAR - MATCH EXISTING
- E. RESTORATION AND CLEANING (WALL 4.0 l.m.) ~ 6 m2 OF WALL FACE



Back of Cairn



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Date: 22.2.2014
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|---------------------|------|-------------|-------------------------|----------------------|
| Revision / Revision | | | | |

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| A B | Detail number Sheet number | A Numéro de détail B Numéro de la feuille |
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Linear dimensions in millimetres / Dimensions linéaires en millimètres

| | |
|--|------------|
| Consultant's Name Nom de l'expert-conseil | Eng. Stamp |
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Canada
Parks Canada / Parcs Canada
Asset Management / Gestion des biens
Western and Northern Region / Région de l'Ouest et du Nord

Project title/Titre du projet
**ROCK WALL PROJECT
BANFF NATIONAL PARK**

Drawing title/Titre du dessin
**HILLSIDE MEADOWS
BOY SCOUT CAIRN AND ROCK WALL**

| | | |
|-------------------------|----------------------|----------|
| Surveyed by/Arpenté par | Drawn by/Dessiné par | Date |
| | J.G. | 16/03/23 |

| | | |
|-------------------------|------------------------|---------------|
| Designed by/Concept par | Reviewed by/Revisé par | Scale/Echelle |
| | T.W./L.T. | AS SHOWN |

| | |
|---|--------------------------|
| Client Acceptance/Acceptation du client | Approved by/Approuvé par |
| | |

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|--------------------------|----------------------|----------------------------|
| Project No./N° du projet | Asset No./N° du bien | Sheet No./N° de la feuille |
| | | L-200 |

Drawing Set No./N° de série du dessin
60480648

MASONRY NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. MASONRY:
 - MORTAR TYPE S - REFER TO SPECIFICATIONS
3. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
 - MASONRY: CSA A371-14 MASONRY CONSTRUCTION FOR BUILDING
4. MATERIALS SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - MORTAR AND GROUT: CSA A179-14, MORTAR AND GROUT FOR UNIT MASONRY
 - REINFORCED STEEL: CAN/CSA G30. 18-09, GRADE 400
5. NORMAL JOINT SIZE TO BE 10 mm
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO UNDER OR ABOVE GROUND SERVICES.

GENERAL NOTES:

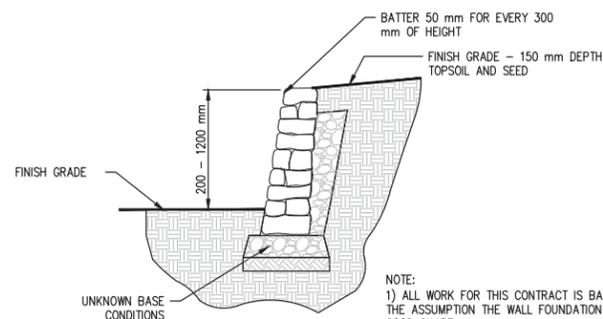
- SITE WORK**
1. CONTRACTOR TO CALL ALBERTA ONE CALL AT 1-800-242-3447, AND ALL OTHER UTILITIES, AS REQUIRED, TO HAVE EXISTING UTILITIES LOCATED PRIOR TO START OF ANY CONSTRUCTION.
 2. CONTRACTOR IS TO VISIT THE SITE TO CONFIRM ALL SITE CONDITIONS PRIOR TO SUBMITTING BIDS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION.
 3. CONTRACTOR IS RESPONSIBLE FOR THE HOARDING OF ALL TREES WITHIN OR ADJACENT TO CONSTRUCTION AREAS, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
 4. CONTRACTOR IS RESPONSIBLE FOR HAULING OF ALL EXCESS MATERIALS OFF THE SITE TO A LOCATION APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
 5. CONTRACTOR IS RESPONSIBLE FOR GENERAL SITE CLEANUP.
 6. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO LANDSCAPED AREAS AND MUST MAKE ALL NECESSARY RESTORATIONS AND REPAIRS, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
 7. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION METHODS
- PERMITS AND STANDARDS**
1. ALL ANCILLARY WORK NORMALLY ASSOCIATED WITH THIS TYPE OF CONSTRUCTION SHALL BE DEEMED TO BE PART OF THE CONTRACT.

MATERIALS

1. THE CONTRACTOR SHALL SUPPLY ALL MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS. ANY DISCREPANCIES IN QUANTITIES SHALL BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR DIRECTION.
2. NO SUBSTITUTION OF MATERIAL, PRODUCTS OR QUANTITIES SHALL BE PERMITTED WITHOUT PRIOR CONSENT OF THE DEPARTMENTAL REPRESENTATIVE.

GENERAL

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5. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

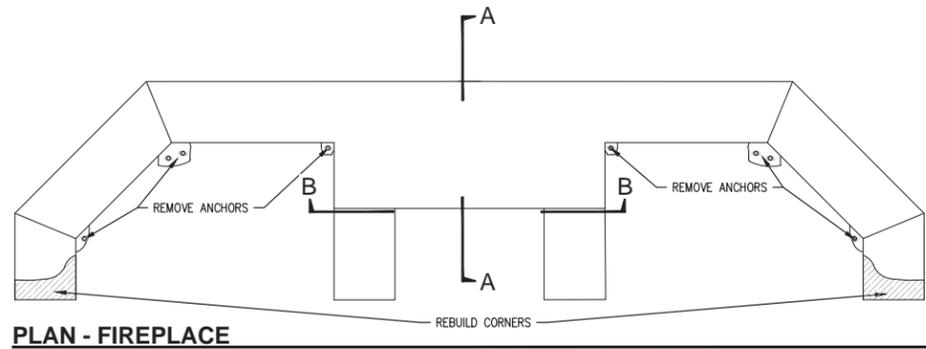


NOTE:
1) ALL WORK FOR THIS CONTRACT IS BASED ON THE ASSUMPTION THE WALL FOUNDATION IS IN GOOD SHAPE
2) ANY FOUNDATION WORK WILL BE APPROVED BY DEPARTMENTAL REPRESENTATIVE PRIOR TO MOVING FORWARD WITH CONSTRUCTION

NATURAL STONE WALL

Scale: 1:20

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AECOM CANADA LTD.
Signature: [Signature]
Date: 2.7.2014
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta

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| Revision / Revision | |
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| Linear dimensions in millimetres / Dimensions linéaires en millimètres | |
| Consultant's Name / Nom de l'expert-conseil | Eng. Stamp |
| AECOM | |

Parks Canada / Parcs Canada
Asset Management / Gestion des biens
Western and Northern Region / Région de l'Ouest et du Nord

Canada

SCOPE OF WORK

- A. REBUILD CORNER ~ 450 mm LENGTH X 650 mm WIDTH X 750 mm HEIGHT. REPLACE ROCK AND REPAIR MORTAR
- B. REMOVE REBAR, EXPOSED PORTION TO BE GROUND SMOOTH WITH TOP OF STONE
- C. REPLACE MISSING STONE ~ 250 mm LENGTH X 200 mm WIDTH X 150 mm HEIGHT. REPLACE ROCK AND REPAIR MORTAR
- D. REPOINT LOOSE MORTAR - MATCH EXISTING

OVERALL WORK

- WALL HT. ~ 450-600 mm
- FIRE BRICK IN GOOD CONDITION, NO WORK REQUIRED
- BACK OF CHIMNEY - IN GOOD CONDITION, NO WORK REQUIRED
- CHIMNEY AND FLUE - REFER TO DETAILS THIS SHEET

CONCRETE NOTES:

1. PROVIDE CONCRETE AND PERFORM WORK IN ACCORDANCE WITH CSA-A23
2. CONCRETE SHALL BE NORMAL DENSITY WITH NORMAL DENSITY FINE AND COARSE AGGREGATE
3. CONCRETE SHALL BE 25 MPa 28 DAYS, MAX WK RATIO= 0.55, MAX AGGREGATE SIZE OF 20 mm, AND 4-7% AIR

MASONRY NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. MASONRY: - MORTAR TYPE S - REFER TO SPECIFICATIONS
3. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING STANDARDS: - MASONRY: CSA A371-14 MASONRY CONSTRUCTION FOR BUILDING
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5. NORMAL JOINT SIZE TO BE 10 mm
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO UNDER OR ABOVE GROUND SERVICES.

GENERAL NOTES:

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1. ALL ANCILLARY WORK NORMALLY ASSOCIATED WITH THIS TYPE OF CONSTRUCTION SHALL BE DEEMED TO BE PART OF THE CONTRACT.

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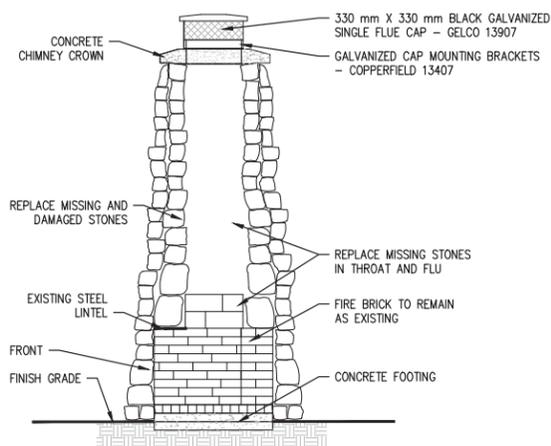
Project title/Titre du projet

**ROCK WALL PROJECT
BANFF NATIONAL PARK**

Drawing title/Titre du dessin

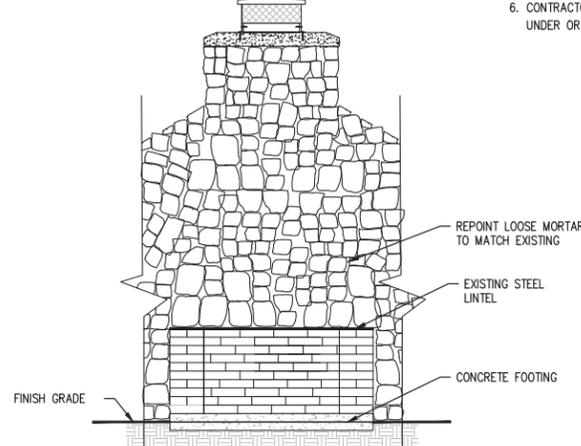
**FIRESIDE DAY USE AREA
FIREPLACE**

| | | |
|---|--------------------------|----------------------------|
| Surveyed by/Arpenté par | Drawn by/Dessiné par | Date |
| J.G. | J.G. | 16/03/23 |
| Designed by/Concept par | Reviewed by/Revisé par | Scale/Echelle |
| T.W./L.T. | T.W./L.T. | AS SHOWN |
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| Project No./N° du projet | Asset No./N° du bien | Sheet No./N° de la feuille |
| 60480648 | | L-300 |



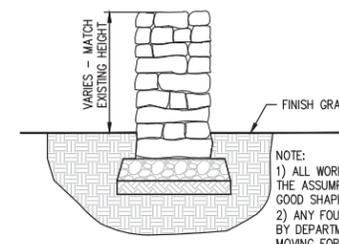
SECTION A - CHIMNEY

Scale: 1:20



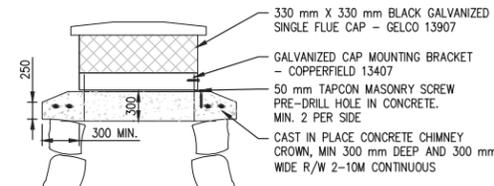
SECTION B - CHIMNEY

Scale: 1:20



NATURAL STONE WALL - SECTION

Scale: 1:20



ENLARGEMENT - CHIMNEY CAP

Scale: 1:10

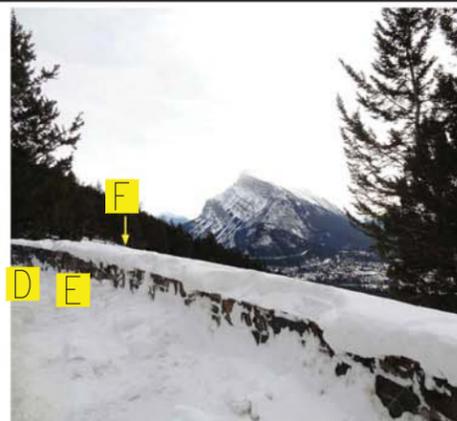
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SCOPE OF WORK

- A. REPLACE MISSING STONE ~ 600 mm LENGTH X 150 mm WIDTH X 150 mm HEIGHT. REPLACE STONE AND REPAIR MORTAR
- B. REPLACE MISSING STONE ~ 2.5 Lm. LENGTH X 200 mm WIDTH X 300 mm HEIGHT. REPLACE STONE AND REPAIR MORTAR
- C. OPENING OF PATH REPLACE MISSING STONE 50-100 mm LENGTH X 50 mm WIDTH X 100-150 mm HEIGHT (BOTH SIDES). REPLACE STONE AND REPAIR MORTAR
- D. REPLACE MISSING STONE ~ 300 mm LENGTH X 250 mm WIDTH X 100 mm HEIGHT. REPLACE STONE AND REPAIR MORTAR
- E. REPLACE MISSING STONE ~ 150 mm LENGTH X 50 mm WIDTH X 50 mm HEIGHT. REPLACE STONE AND REPAIR MORTAR
- F. REPLACE MISSING STONE ~ 2.0 Lm. LENGTH X 150 mm WIDTH X 200 mm HEIGHT. REPLACE STONE AND REPAIR MORTAR
- G. REPLACE MISSING STONE ~ 600 mm LENGTH X 150 mm WIDTH X 150 mm HEIGHT. REPLACE STONE AND REPAIR MORTAR
- H. REPLACE MISSING STONE ~ 600 mm LENGTH X 150 mm WIDTH X 150 mm HEIGHT. REPLACE STONE AND REPAIR MORTAR
- I. SEAM REPAIR - REPOINT LOOSE MORTAR, ENSURE ASPHALT IMPREGNATED FIBRE BOARD IS FUNCTIONING AND INTACT.
- J. REPLACE MISSING STONE ~ 300 mm LENGTH X 250 mm WIDTH X 100 mm HEIGHT. REPLACE STONE AND REPAIR MORTAR

OVERALL WORK

- REPOINT LOOSE MORTAR - MATCH EXISTING
- TOTAL WALL LENGTH 125 Lm.



PERMIT TO PRACTICE
AECOM CANADA LTD.
Date: 22.2.2014
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta

| | | | | |
|---|----------|---------------------------|------|---|
| 1 | 16/03/23 | Issued for Tender | J.G. | - |
| 0 | 16/02/22 | Issued for 95% Submission | J.G. | - |

| No. | Date | Description | Drawn by Dessiné par | Approved Approuvé |
|-----|------|-------------|-------------------------|----------------------|
|-----|------|-------------|-------------------------|----------------------|

| Revision / Revision | |
|---------------------|-------------------------------------|
| A | Detail number / Numéro de détail |
| B | Sheet number / Numéro de la feuille |

Consultant's Name / Nom de l'expert-conseil: **AECOM**

Eng. Stamp:

Parks Canada / Parcs Canada
Asset Management / Gestion des biens
Western and Northern Region / Région de l'Ouest et du Nord

Canada

Project title/Titre du projet:
**ROCK WALL PROJECT
BANFF NATIONAL PARK**

Drawing title/Titre du dessin:
**NORQUAY ROAD VIEWPOINT
ROCK WALL**

| | | |
|--|-----------------------------------|-----------------------------------|
| Surveyed by/Arpenté par: J.G. | Drawn by/Dessiné par: J.G. | Date: 16/03/23 |
| Designed by/Concept par: T.W./L.T. | Reviewed by/Revisé par: T.W./L.T. | Scale/Echelle: AS SHOWN |
| Client Acceptance/Acceptation du client: | | Approved by/Approuvé par: |
| Project No./N° du projet: 60480648 | Asset No./N° du bien: | Sheet No./N° de la feuille: L-400 |

MASONRY NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- MASONRY:
 - MORTAR TYPE S - REFER TO SPECIFICATIONS
- THE WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
 - MASONRY: CSA A371-14 MASONRY CONSTRUCTION FOR BUILDING
- MATERIALS SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - MORTAR AND GROUT: CSA A179-14, MORTAR AND GROUT FOR UNIT MASONRY
 - REINFORCED STEEL: CAN/CSA G30. 18-09, GRADE 400
- NORMAL JOINT SIZE TO BE 10 mm
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO UNDER OR ABOVE GROUND SERVICES.

GENERAL NOTES:

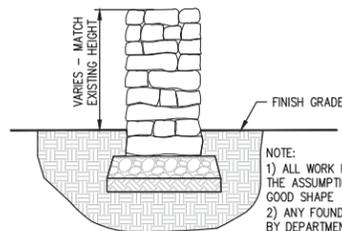
- SITE WORK**
- CONTRACTOR TO CALL ALBERTA ONE CALL AT 1-800-242-3447, AND ALL OTHER UTILITIES, AS REQUIRED, TO HAVE EXISTING UTILITIES LOCATED PRIOR TO START OF ANY CONSTRUCTION.
 - CONTRACTOR IS TO VISIT THE SITE TO CONFIRM ALL SITE CONDITIONS PRIOR TO SUBMITTING BIDS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION.
 - CONTRACTOR IS RESPONSIBLE FOR THE HOARDING OF ALL TREES WITHIN OR ADJACENT TO CONSTRUCTION AREAS, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
 - CONTRACTOR IS RESPONSIBLE FOR HAULING OF ALL EXCESS MATERIALS OFF THE SITE TO A LOCATION APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
 - CONTRACTOR IS RESPONSIBLE FOR GENERAL SITE CLEANUP.
 - CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO LANDSCAPED AREAS AND MUST MAKE ALL NECESSARY RESTORATIONS AND REPAIRS, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
 - CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION METHODS
- PERMITS AND STANDARDS**
- ALL ANCILLARY WORK NORMALLY ASSOCIATED WITH THIS TYPE OF CONSTRUCTION SHALL BE DEEMED TO BE PART OF THE CONTRACT.

MATERIALS

- THE CONTRACTOR SHALL SUPPLY ALL MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS. ANY DISCREPANCIES IN QUANTITIES SHALL BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR DIRECTION.
- NO SUBSTITUTION OF MATERIAL, PRODUCTS OR QUANTITIES SHALL BE PERMITTED WITHOUT PRIOR CONSENT OF THE DEPARTMENTAL REPRESENTATIVE.

GENERAL

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE WRITTEN SPECIFICATIONS, DRAWINGS AND DETAILS FOR THIS PROJECT.
- ANY AMBIGUITY IN THIS DRAWING OR ACCOMPANYING DETAILS IS TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR DIRECTION. THE CONTRACTOR IS NOT TO PROCEED IN UNCERTAINTY.
- LIMITS OF THE WORK ARE TO BE CLEARLY UNDERSTOOD BY THE CONTRACTOR PRIOR TO ANY WORK TAKING PLACE ON SITE. THE CONTRACTOR IS TO CONTACT THE DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION IF REQUIRED.
- THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO DEPARTMENTAL REPRESENTATIVE.
- ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.



NOTE:
1) ALL WORK FOR THIS CONTRACT IS BASED ON THE ASSUMPTION THE WALL FOUNDATION IS IN GOOD SHAPE
2) ANY FOUNDATION WORK WILL BE APPROVED BY DEPARTMENTAL REPRESENTATIVE PRIOR TO MOVING FORWARD WITH CONSTRUCTION

NATURAL STONE WALL - SECTION

Scale: 1:20

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SCOPE OF WORK

- A. REPLACE MISSING STONE ~ 400 mm LENGTH X 100 mm WIDTH X 50 mm HEIGHT. REPLACE ROCK AND REPAIR MORTAR
- B. REPLACE MISSING STONE ~ 250 mm LENGTH X 50 mm WIDTH X 300 mm HEIGHT. REPLACE ROCK AND REPAIR MORTAR
- C. REPLACE MISSING STONE ~ 1.0 Lm. LENGTH X 500 mm WIDTH X 150 mm HEIGHT. REPLACE ROCK AND REPAIR MORTAR
- D. REMOVE SPALLING PORTION OF ROCK AND REPLACE WITH SINGLE ROCK TO FILL VOID AND MORTAR
- E. REPLACE MISSING STONE ~ 75 mm LENGTH X 25 mm WIDTH X 50 mm HEIGHT. REPLACE ROCK AND REPAIR MORTAR
- F. REPOINT LOOSE MORTAR – MATCH EXISTING

OVERALL WORK

- REPOINT LOOSE MORTAR – MATCH EXISTING
- TOTAL WALL LENGTH ~ 40 Lm



PERMIT TO PRACTICE
AECOM CANADA LTD.
Signature: [Signature]
Date: 2.7.2014
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta

| 1 | 16/03/23 | Issued for Tender | J.G. | - |
|-----|----------|---------------------------|-------------------------|----------------------|
| 0 | 16/02/22 | Issued for 95% Submission | J.G. | - |
| No. | Date | Description | Drawn by Dessiné par | Approved Approuvé |

| | | |
|--|-------------------------------|--|
| Revision / Revision | | |
| (A) (B) | Detail number Sheet number | A Numéro de détail B Numéro de la feuille |
| Linear dimensions in millimetres | | Dimensions linéaires en millimètres |
| Consultant's Name Nom de l'expert-conseil | | Eng. Stamp |
| AECOM | | |

Canada

Parks Canada / Parcs Canada
Asset Management / Gestion des biens
Western and Northern Region / Région de l'Ouest et du Nord

MASONRY NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. MASONRY:
 - MORTAR TYPE S – REFER TO SPECIFICATIONS
3. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
 - MASONRY: CSA A371-14 MASONRY CONSTRUCTION FOR BUILDING
4. MATERIALS SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - MORTAR AND GROUT: CSA A179-14, MORTAR AND GROUT FOR UNIT MASONRY
 - REINFORCED STEEL: CAN/CSA G30. 18-09, GRADE 400
5. NORMAL JOINT SIZE TO BE 10 mm
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO UNDER OR ABOVE GROUND SERVICES.

GENERAL NOTES:

- SITE WORK**
1. CONTRACTOR TO CALL ALBERTA ONE CALL AT 1-800-242-3447, AND ALL OTHER UTILITIES, AS REQUIRED, TO HAVE EXISTING UTILITIES LOCATED PRIOR TO START OF ANY CONSTRUCTION.
 2. CONTRACTOR IS TO VISIT THE SITE TO CONFIRM ALL SITE CONDITIONS PRIOR TO SUBMITTING BIDS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION.
 3. CONTRACTOR IS RESPONSIBLE FOR THE HOARDING OF ALL TREES WITHIN OR ADJACENT TO CONSTRUCTION AREAS, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
 4. CONTRACTOR IS RESPONSIBLE FOR HAULING OF ALL EXCESS MATERIALS OFF THE SITE TO A LOCATION APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
 5. CONTRACTOR IS RESPONSIBLE FOR GENERAL SITE CLEANUP.
 6. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO LANDSCAPED AREAS AND MUST MAKE ALL NECESSARY RESTORATIONS AND REPAIRS, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
 7. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION METHODS
- PERMITS AND STANDARDS**
1. ALL ANCILLARY WORK NORMALLY ASSOCIATED WITH THIS TYPE OF CONSTRUCTION SHALL BE DEEMED TO BE PART OF THE CONTRACT.

- MATERIALS**
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 4. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO DEPARTMENTAL REPRESENTATIVE.
 5. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

Project title/Titre du projet
**ROCK WALL PROJECT
BANFF NATIONAL PARK**

Drawing title/Titre du dessin
**224 BANFF AVENUE (VISITORS CENTRE)
ROCK WALL**

| | | |
|---|------------------------|----------------------------|
| Surveyed by/Arpenté par | Drawn by/Dessiné par | Date |
| | J.G. | 16/03/23 |
| Designed by/Concept par | Reviewed by/Revisé par | Scale/Echelle |
| | T.W./L.T. | AS SHOWN |
| Client Acceptance/Acceptation du client | | Approved by/Approuvé par |
| Date | | Date |
| Project No./N° du projet | Asset No./N° du bien | Sheet No./N° de la feuille |
| Drawing Set No./N° de série du dessin | | L-500 |
| 60480648 | | |

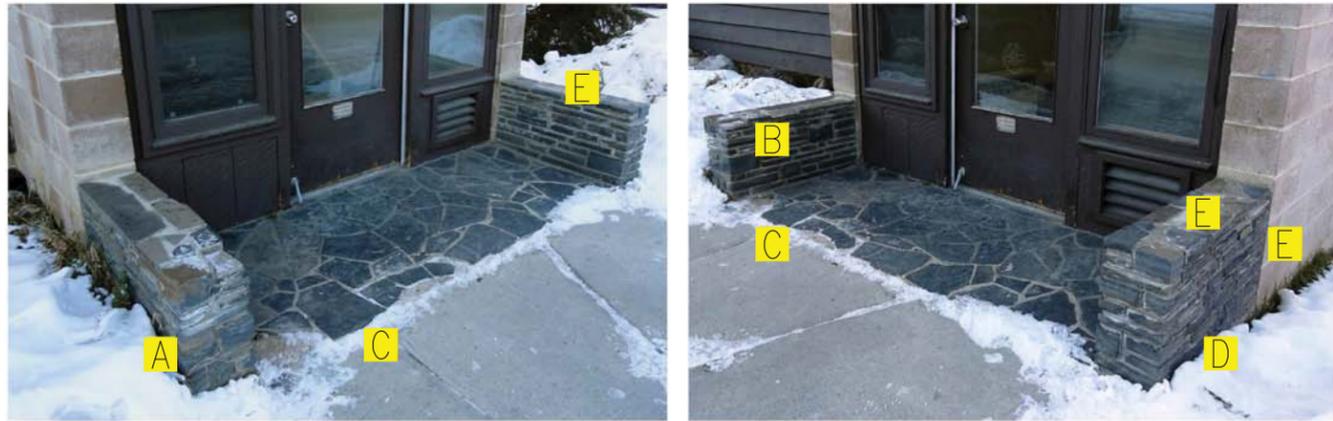
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SCOPE OF WORK

- A. STONE LOOSE ADJACENT TO THE MISSING STONE, REPOINT LOOSE MORTAR – MATCH EXISTING
- B. REPLACE MISSING TOP STONE ON THE CORNER OF THE WALL AND REPAIR WITH MORTAR
- C. REPLACE TWO MISSING STONES, RUNDLE SLAB SURFACE TREATMENT
- D. SMALL PIECE OF UP-STAND WALL MISSING STONE. REPLACE ROCK AND REPAIR MORTAR
- E. REPOINT LOOSE MORTAR – MATCH EXISTING

OVERALL WORK

– MINIMAL AMOUNTS OF MORTAR CRACKING.



PERMIT TO PRACTICE
AECOM CANADA LTD.
Date: 2.7.2014
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta

| 1 | 16/03/23 | Issued for Tender | J.G. | - |
|-----|----------|---------------------------|-------------------------|----------------------|
| 0 | 16/02/22 | Issued for 95% Submission | J.G. | - |
| No. | Date | Description | Drawn by Dessiné par | Approved Approuvé |

Revision / Revision

| | | |
|--|---------------|-------------------------------------|
| A | Detail number | A Numéro de détail |
| B | Sheet number | B Numéro de la feuille |
| Linear dimensions in millimetres | | Dimensions linéaires en millimètres |
| Consultant's Name Nom de l'expert-conseil | | Eng. Stamp |

AECOM

PROFESSIONAL ENGINEER
15-MAR-2016

Canada

Parks Canada / Parcs Canada
Asset Management / Gestion des biens
Western and Northern Region / Région de l'Ouest et du Nord

MASONRY NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
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 - MORTAR TYPE S – REFER TO SPECIFICATIONS
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 - MASONRY: CSA A371-14 MASONRY CONSTRUCTION FOR BUILDING
- MATERIALS SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - MORTAR AND GROUT: CSA A179-14, MORTAR AND GROUT FOR UNIT MASONRY
 - REINFORCED STEEL: CAN/CSA G30. 18-09, GRADE 400
- NORMAL JOINT SIZE TO BE 10 mm
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO UNDER OR ABOVE GROUND SERVICES.

GENERAL NOTES:

- SITE WORK**
- CONTRACTOR TO CALL ALBERTA ONE CALL AT 1-800-242-3447, AND ALL OTHER UTILITIES, AS REQUIRED, TO HAVE EXISTING UTILITIES LOCATED PRIOR TO START OF ANY CONSTRUCTION.
 - CONTRACTOR IS TO VISIT THE SITE TO CONFIRM ALL SITE CONDITIONS PRIOR TO SUBMITTING BIDS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION.
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MATERIALS

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Project title/Titre du projet
**ROCK WALL PROJECT
BANFF NATIONAL PARK**

Drawing title/Titre du dessin
**117 BEAVER STREET
FRONT ENTRY**

| | | |
|---|------------------------|----------------------------|
| Surveyed by/Arpenté par | Drawn by/Dessiné par | Date |
| | J.G. | 16/03/23 |
| Designed by/Concept par | Reviewed by/Revisé par | Scale/Echelle |
| | T.W./L.T. | AS SHOWN |
| Client Acceptance/Acceptation du client | | Approved by/Approuvé par |
| Date | | Date |
| Project No./N° du projet | Asset No./N° du bien | Sheet No./N° de la feuille |
| Drawing Set No./N° de série du dessin | | L-600 |
| 60480648 | | |

SCOPE OF WORK

- COMPLETE RECONSTRUCTION REQUIRED, REMOVE WALL AND REBUILD WITH EXISTING ROCK (28.0 Lm. X 1,200 mm HEIGHT X 450-750 mm WIDTH)
- REBUILD 6.0 Lm. SECTION OF THE WALL BETWEEN 300-350 mm HIGHER TO RETAIN SOIL BEHIND
- SECTION NEXT TO GARAGE WAS IN GOOD CONDITION, REPOINT LOOSE MORTAR - MATCH EXISTING ~ 6.0 Lm.
- WALL HEIGHT 900-1200 mm BESIDE GARAGE ~ 750 mm
- TOTAL WALL LENGTH ~ 34 Lm.



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PERMIT TO PRACTICE
AECOM CANADA LTD.
Signature: [Signature]
Date: 22.2.2014
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta

| 1 | 16/03/23 | Issued for Tender | J.G. | - |
|-----|----------|---------------------------|------------------------|---------------------|
| 0 | 16/02/22 | Issued for 95% Submission | J.G. | - |
| No. | Date | Description | Drawn by / Dessiné par | Approved / Approuvé |

| Revision / Revision | |
|--|-------------------------------------|
| A | Detail number / Numéro de détail |
| B | Sheet number / Numéro de la feuille |
| Linear dimensions in millimetres / Dimensions linéaires en millimètres | |

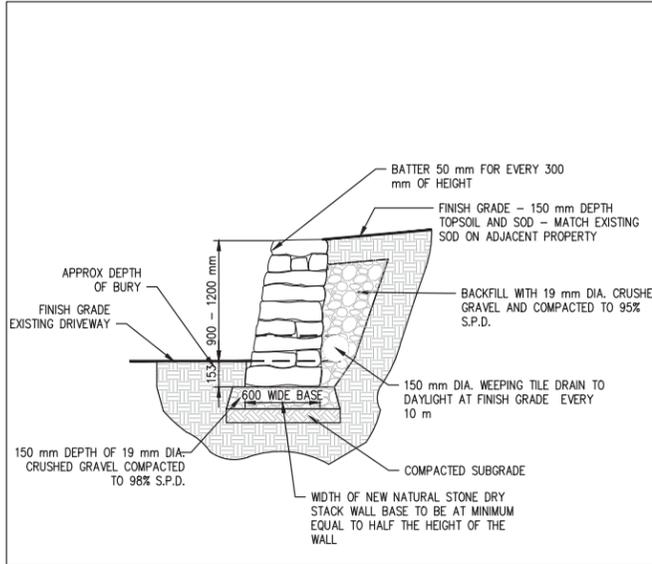
Consultant's Name / Nom de l'expert-conseil: **AECOM**

Eng. Stamp: [Professional Engineer Stamp]

Parks Canada / Parcs Canada
Asset Management / Gestion des biens
Western and Northern Region / Région de l'Ouest et du Nord
Canada



116 PARK AVENUE PLAN
Scale: 1:300
IMAGE SOURCE: GOOGLE



GENERAL NOTES:

- SITE WORK**
- CONTRACTOR TO CALL ALBERTA ONE CALL AT 1-800-242-3447, AND ALL OTHER UTILITIES, AS REQUIRED, TO HAVE EXISTING UTILITIES LOCATED PRIOR TO START OF ANY CONSTRUCTION.
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- PERMITS AND STANDARDS**
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Project title/Titre du projet
**ROCK WALL PROJECT
BANFF NATIONAL PARK**

Drawing title/Titre du dessin
**116 PARK AVENUE
ROCK WALL**

| | | |
|---|--------------------------|---------------|
| Surveyed by/Arpenté par | Drawn by/Dessiné par | Date |
| Designed by/Concept par | Reviewed by/Revisé par | Scale/Echelle |
| Client Acceptance/Acceptation du client | Approved by/Approuvé par | |

| | | |
|--------------------------|----------------------|----------------------------|
| Project No./N° du projet | Asset No./N° du bien | Sheet No./N° de la feuille |
| 60480648 | | L-700 |

SCOPE OF WORK

- A. SIDE OF BUILDING WALL #1 – TAKE DOWN AND REBUILD WITH PISA2 MODULAR BLOCK IN FRONT OF SPRUCE TREE. WALL HEIGHT ~ 300 mm. ~ 12 l.m. (REFER TO MANUFACTURERS SPECIFICATIONS)
- B. SIDE OF BUILDING WALL #1 – FILL MATERIAL ~ 5.0 m LENGTH X 1.0 m WIDTH X 0.45 m HEIGHT
- C. FRONT OF BUILDING WALL #2 – TAKE DOWN AND REBUILD WITH PISA2 MODULAR BLOCK. WALL HEIGHT ~ 300-350 mm (REFER TO MANUFACTURERS SPECIFICATIONS)
- D. FRONT OF BUILDING WALL #3 – TAKE DOWN AND REBUILD WITH PISA2 MODULAR BLOCK. WALL HEIGHT ~ 250-600 mm (REFER TO MANUFACTURERS SPECIFICATIONS)
- E. BACK OF BUILDING WALL #4 – TAKE DOWN AND REBUILD WITH PISA2 MODULAR BLOCK. WALL HEIGHT ~ 300-350 mm (REFER TO MANUFACTURERS SPECIFICATIONS)

OVERALL WORK

- REMOVE ROCK WALL, AND REBUILD USING PISA2 MODULAR BLOCK RETAINING WALL MATERIAL. CONTRACTOR TO STORE ALL ROCK AND RE-USE ON OTHER SITES

Side of Building



Front of Building



Back of Building



553 MARMOT STREET PLAN

Scale: 1:300
0 12.5 25 m

IMAGE SOURCE: GOOGLE

GENERAL NOTES:

- SITE WORK**
- CONTRACTOR TO CALL ALBERTA ONE CALL AT 1-800-242-3447, AND ALL OTHER UTILITIES, AS REQUIRED, TO HAVE EXISTING UTILITIES LOCATED PRIOR TO START OF ANY CONSTRUCTION.
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 - CONTRACTOR IS RESPONSIBLE FOR GENERAL SITE CLEANUP.
 - CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO LANDSCAPED AREAS AND MUST MAKE ALL NECESSARY RESTORATIONS AND REPAIRS, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
 - CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION METHODS

PERMITS AND STANDARDS

- ALL ANCILLARY WORK NORMALLY ASSOCIATED WITH THIS TYPE OF CONSTRUCTION SHALL BE DEEMED TO BE PART OF THE CONTRACT.

MATERIALS

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GENERAL

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- LIMITS OF THE WORK ARE TO BE CLEARLY UNDERSTOOD BY THE CONTRACTOR PRIOR TO ANY WORK TAKING PLACE ON SITE. THE CONTRACTOR IS TO CONTACT THE DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION IF REQUIRED.
- THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO DEPARTMENTAL REPRESENTATIVE.
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| | | |
|---|---------------|------------------------|
| A | Detail number | A Numéro de détail |
| B | Sheet number | B Numéro de la feuille |

Linear dimensions in millimetres / Dimensions linéaires en millimètres

Consultant's Name / Nom de l'expert-conseil: **AECOM**

Eng. Stamp: [Professional Engineer Stamp]

Parks Canada / Parcs Canada

Asset Management / Gestion des biens
Western and Northern Region / Région de l'Ouest et du Nord

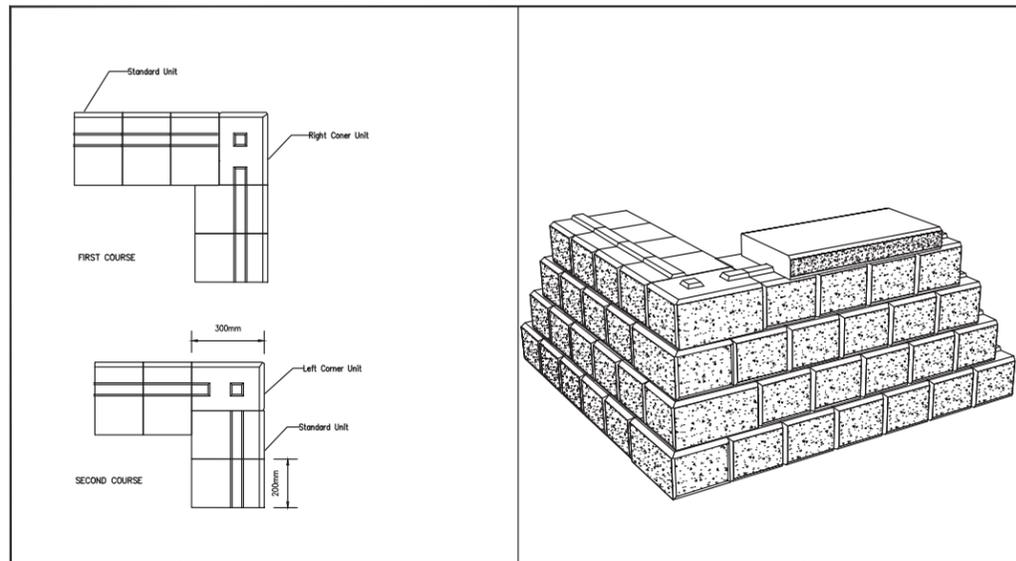
Canada

Project title/Titre du projet: **ROCK WALL PROJECT BANFF NATIONAL PARK**

Drawing title/Titre du dessin: **553 MARMOT STREET ROCK WALL**

| | | |
|--|-----------------------------------|-----------------------------------|
| Surveyed by/Arpenté par: J.G. | Drawn by/Dessiné par: J.G. | Date: 16/03/23 |
| Designed by/Concept par: T.W./L.T. | Reviewed by/Revisé par: T.W./L.T. | Scale/Echelle: AS SHOWN |
| Client Acceptance/Acceptation du client: _____ | | Approved by/Approuvé par: _____ |
| Project No./N° du projet: 60480648 | Asset No./N° du bien: _____ | Sheet No./N° de la feuille: L-800 |

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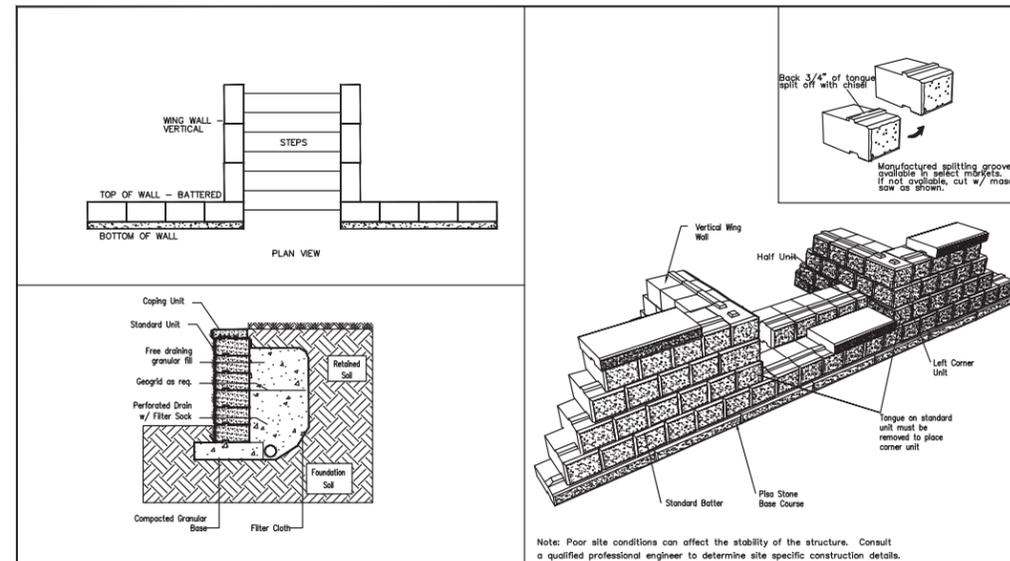


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retaining wall systems

8500 Leslie Street, Suite 390
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Canada, L3T 7M8
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http://www.risistone.com
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Pisa 2[®]
90 Deg. Outside Corner
12" (300mm) corner unit

P21GDET007.DWG



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Pisa 2[®]
Vertical Wing Wall Detail

P21SDET011.DWG

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| 0 | 16/02/22 | Issued for 95% Submission | J.G. | - |

| Revision / Revision | |
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| A | Detail number |
| B | Sheet number |
| Linear dimensions in millimetres | |
| Dimensions linéaires en millimètres | |

Consultant's Name
Nom de l'expert-conseil

AECOM

Eng. Stamp

Canada

Parks Canada / Parcs Canada

Asset Management / Gestion des biens
Western and Northern Region / Région de l'Ouest et du Nord

Project title/Titre du projet

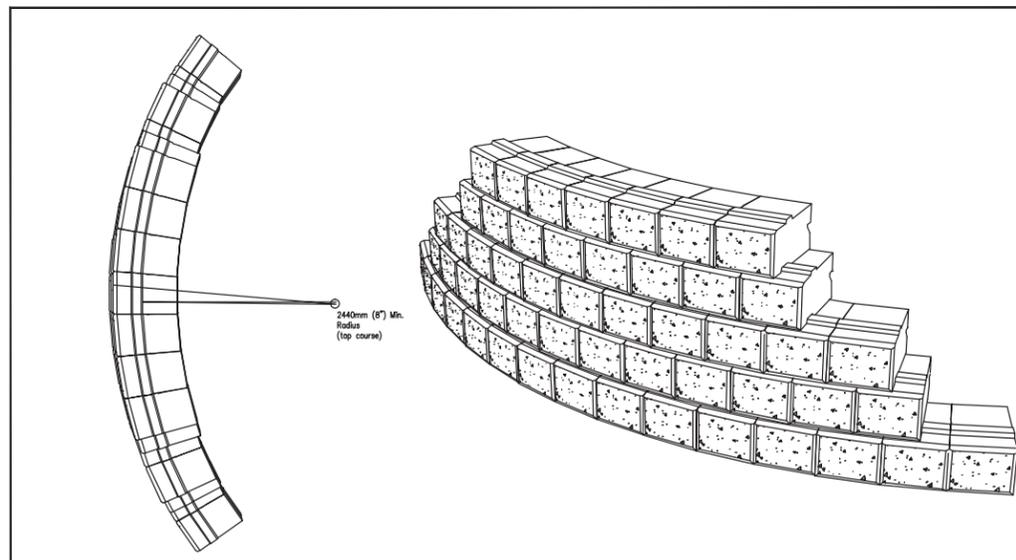
**ROCK WALL PROJECT
BANFF NATIONAL PARK**

Drawing title/Titre du dessin

**553 MARMOT STREET
DETAILS**

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|---|--------------------------|---------------|
| Surveyed by/Arpenté par | Drawn by/Dessiné par | Date |
| | J.G. | 16/03/23 |
| Designed by/Concept par | Reviewed by/Revisé par | Scale/Echelle |
| | T.W./L.T. | AS SHOWN |
| Client Acceptance/Acceptation du client | Approved by/Approuvé par | |
| | | |

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| Project No./N° du projet | Asset No./N° du bien | Sheet No./ N° de la feuille |
| | | L-801 |
| Drawing Set No./N° de série du dessin | | |
| 60480648 | | |

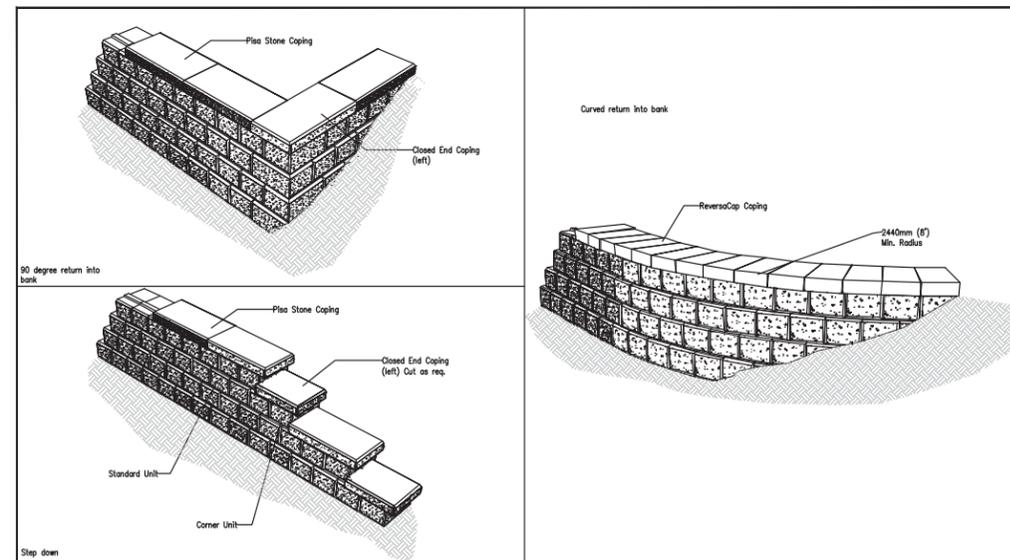


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retaining wall systems

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Pisa 2[®]
Convex Curve
With Tapered Units

P21GDET018.DWG



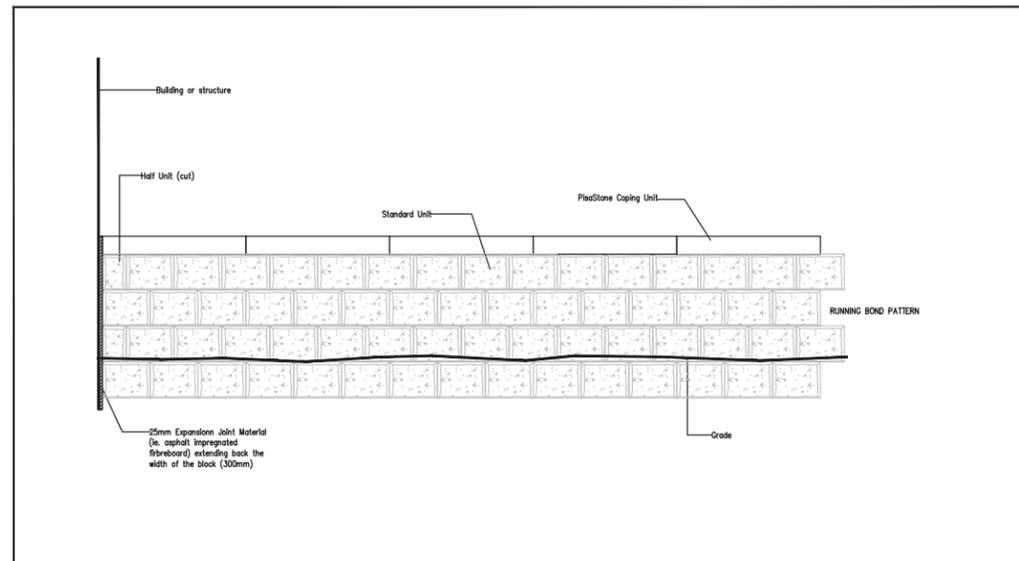
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Pisa 2[®]
Wall Ends

P21GDET023.DWG

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| 0 | 16/02/22 | Issued for 95% Submission | J.G. | - |
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| A B | Detail number | A Numéro de détail |
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| Linear dimensions in millimetres | Dimensions linéaires en millimètres |
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| | |
|--|------------|
| Consultant's Name Nom de l'expert-conseil | Eng. Stamp |
| AECOM | |

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Canada

Project title/Titre du projet
**ROCK WALL PROJECT
BANFF NATIONAL PARK**

Drawing title/Titre du dessin
**553 MARMOT STREET
DETAILS**

| | | |
|---|--------------------------|---------------|
| Surveyed by/Arpenté par | Drawn by/Dessiné par | Date |
| | J.G. | 16/03/23 |
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| Client Acceptance/Acceptation du client | Approved by/Approuvé par | |
| Date | Date | |

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| Project No./N° du projet | Asset No./N° du bien | Sheet No./ N° de la feuille |
| | | L-802 |
| Drawing Set No./N° de série du dessin | | |
| 60480648 | | |

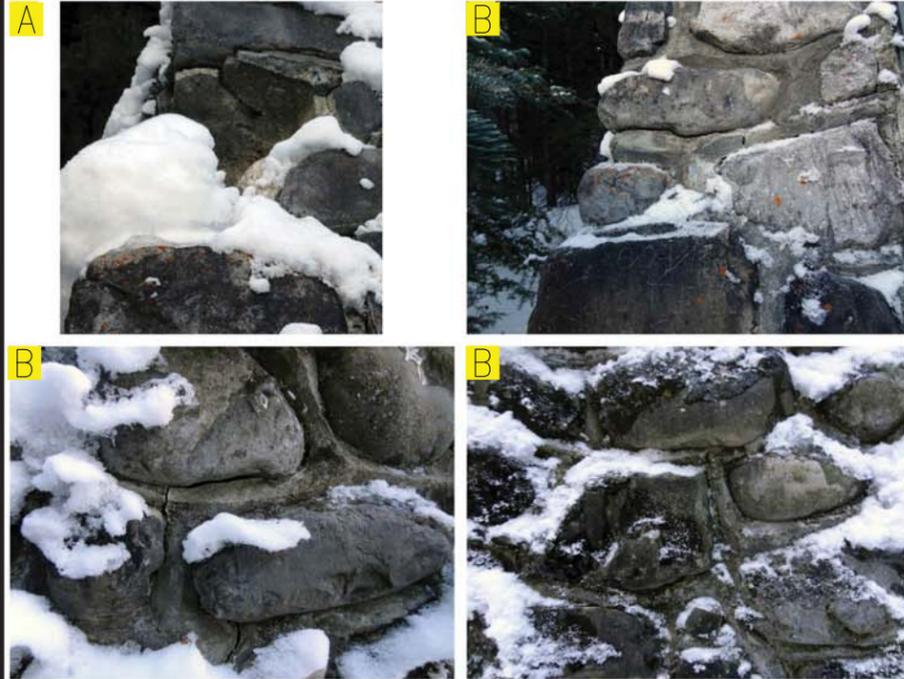
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SCOPE OF WORK

- A. REPAIR MISSING STONE AT TOP OF CAIRN – PARKS CANADA HAS MISSING STONE FOR THIS CAIRN. REPLACE ROCK AND REPAIR MORTAR.
- B. REPOINT LOOSE MORTAR – MATCH EXISTING
- C. MASONRY RESTORATION AND CLEANING OF CAIRN – REFER TO SPECIFICATIONS



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| A | Detail number | A Numéro de détail |
| B | Sheet number | B Numéro de la feuille |
| Linear dimensions in millimetres | | Dimensions linéaires en millimètres |

Consultant's Name
Nom de l'expert-conseil

AECOM

Eng. Stamp

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MASONRY NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. MASONRY:
 - MORTAR TYPE S – REFER TO SPECIFICATIONS
3. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
 - MASONRY: CSA A371-14 MASONRY CONSTRUCTION FOR BUILDING
4. MATERIALS SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - MORTAR AND GROUT: CSA A179-14, MORTAR AND GROUT FOR UNIT MASONRY
 - REINFORCED STEEL: CAN/CSA G30.18-09, GRADE 400
5. NORMAL JOINT SIZE TO BE 10 mm
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO UNDER OR ABOVE GROUND SERVICES.

GENERAL NOTES:

- SITE WORK**
1. CONTRACTOR TO CALL ALBERTA ONE CALL AT 1-800-242-3447, AND ALL OTHER UTILITIES, AS REQUIRED, TO HAVE EXISTING UTILITIES LOCATED PRIOR TO START OF ANY CONSTRUCTION.
 2. CONTRACTOR IS TO VISIT THE SITE TO CONFIRM ALL SITE CONDITIONS PRIOR TO SUBMITTING BIDS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION.
 3. CONTRACTOR IS RESPONSIBLE FOR THE HOARDING OF ALL TREES WITHIN OR ADJACENT TO CONSTRUCTION AREAS, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
 4. CONTRACTOR IS RESPONSIBLE FOR HAULING OF ALL EXCESS MATERIALS OFF THE SITE TO A LOCATION APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
 5. CONTRACTOR IS RESPONSIBLE FOR GENERAL SITE CLEANUP.
 6. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO LANDSCAPED AREAS AND MUST MAKE ALL NECESSARY RESTORATIONS AND REPAIRS, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
 7. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION METHODS

- PERMITS AND STANDARDS**
1. ALL ANCILLARY WORK NORMALLY ASSOCIATED WITH THIS TYPE OF CONSTRUCTION SHALL BE DEEMED TO BE PART OF THE CONTRACT.

MATERIALS

1. THE CONTRACTOR SHALL SUPPLY ALL MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS. ANY DISCREPANCIES IN QUANTITIES SHALL BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR DIRECTION.
2. NO SUBSTITUTION OF MATERIAL, PRODUCTS OR QUANTITIES SHALL BE PERMITTED WITHOUT PRIOR CONSENT OF THE DEPARTMENTAL REPRESENTATIVE.

GENERAL

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5. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

Project title/Titre du projet

**ROCK WALL PROJECT
BANFF NATIONAL PARK**

Drawing title/Titre du dessin

DOWLING CAIRN

| | | |
|---|------------------------|----------------------------|
| Surveyed by/Arpenté par | Drawn by/Dessiné par | Date |
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| | T.W./L.T. | AS SHOWN |
| Client Acceptance/Acceptation du client | | Approved by/Approuvé par |
| Date | | Date |
| Project No./N° du projet | Asset No./N° du bien | Sheet No./N° de la feuille |
| 60480648 | | L-900 |
| Drawing Set No./N° de série du dessin | | |
| 60480648 | | |

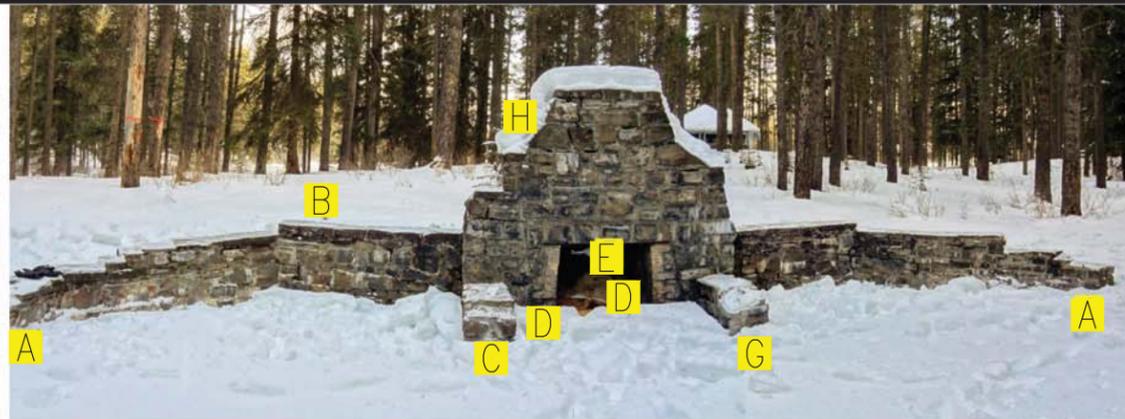
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SCOPE OF WORK

- A. REPLACE MISSING STONE ~ 350 mm LENGTH X 200 mm WIDTH X 75 mm HEIGHT. REPLACE STONE AND REPAIR MORTAR
- B. REPLACE MISSING STONE ~ 350 mm LENGTH X 100 mm WIDTH X 75 mm HEIGHT. REPLACE STONE AND REPAIR MORTAR
- C. REPLACE MISSING STONE ~ 350 mm LENGTH X 200 mm WIDTH X 75 mm HEIGHT. REPLACE STONE AND REPAIR MORTAR
- D. REPLACE FIRE BRICK 2-3 COURSES OF 38-50 mm THICK
- E. REPLACE METAL LINTEL WITH 8 mm THICK PLATE, SIZED TO MATCH EXISTING. EXTEND MIN. 200 mm EACH SIDE OF OPENING. BLACK PAINTED GALVANIZED STEEL FINISH
- F. REAR OF CHIMNEY - REPOINT LOOSE MORTAR - MATCH EXISTING
- G. REPLACE MISSING STONE ~ 350 mm LENGTH X 200 mm WIDTH X 75 mm HEIGHT. REPLACE STONE AND REPAIR MORTAR
- H. REPOINT LOOSE MORTAR - MATCH EXISTING

OVERALL WORK

- REPOINT LOOSE MORTAR - MATCH EXISTING
- REPOINT CHIMNEY - MORTAR IN POOR CONDITION
- RESTORATION AND CLEANING OF WALL - REFER TO SPECIFICATIONS



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Date: 2.7.2014
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| B | Sheet number / B Numéro de la feuille |
| Linear dimensions in millimetres / Dimensions linéaires en millimètres | |

Consultant's Name / Nom de l'expert-conseil: **AECOM**

Eng. Stamp: [Professional Engineer Stamp]

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Asset Management / Gestion des biens
Western and Northern Region / Région de l'Ouest et du Nord

Canada

CONCRETE NOTES:

1. PROVIDE CONCRETE AND PERFORM WORK IN ACCORDANCE WITH CSA-A23
2. CONCRETE SHALL BE NORMAL DENSITY WITH NORMAL DENSITY FINE AND COARSE AGGREGATE
3. CONCRETE SHALL BE 25 MPa 28 DAYS, MAX WK RATIO= 0.55, MAX AGGREGATE SIZE OF 20 mm, AND 4-7% AIR

STRUCTURAL STEEL NOTES:

1. PROVIDE STRUCTURAL STEEL PLATE TO CSA-G40.21, GRADE 300W

MASONRY NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. MASONRY:
 - MORTAR TYPE S - REFER TO SPECIFICATIONS
3. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
 - MASONRY: CSA A371-14 MASONRY CONSTRUCTION FOR BUILDING
4. MATERIALS SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - MORTAR AND GROUT: CSA A179-14, MORTAR AND GROUT FOR UNIT MASONRY
 - REINFORCED STEEL: CAN/CSA G30. 18-09, GRADE 400
5. NORMAL JOINT SIZE TO BE 10 mm
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO UNDER OR ABOVE GROUND SERVICES.

GENERAL NOTES:

SITE WORK

1. CONTRACTOR TO CALL ALBERTA ONE CALL AT 1-800-242-3447, AND ALL OTHER UTILITIES, AS REQUIRED, TO HAVE EXISTING UTILITIES LOCATED PRIOR TO START OF ANY CONSTRUCTION.
2. CONTRACTOR IS TO VISIT THE SITE TO CONFIRM ALL SITE CONDITIONS PRIOR TO SUBMITTING BIDS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION.
3. CONTRACTOR IS RESPONSIBLE FOR THE HOARDING OF ALL TREES WITHIN OR ADJACENT TO CONSTRUCTION AREAS, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
4. CONTRACTOR IS RESPONSIBLE FOR HAULING OF ALL EXCESS MATERIALS OFF THE SITE TO A LOCATION APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
5. CONTRACTOR IS RESPONSIBLE FOR GENERAL SITE CLEANUP.
6. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO LANDSCAPED AREAS AND MUST MAKE ALL NECESSARY RESTORATIONS AND REPAIRS, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
7. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION METHODS INCLUDING SHORING DURING LINTEL REPLACEMENT AS REQUIRED

PERMITS AND STANDARDS

1. ALL ANCILLARY WORK NORMALLY ASSOCIATED WITH THIS TYPE OF CONSTRUCTION SHALL BE DEEMED TO BE PART OF THE CONTRACT.

MATERIALS

1. THE CONTRACTOR SHALL SUPPLY ALL MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS. ANY DISCREPANCIES IN QUANTITIES SHALL BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR DIRECTION.
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GENERAL

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5. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

Project title/Titre du projet
ROCK WALL PROJECT BANFF NATIONAL PARK

Drawing title/Titre du dessin
TWO JACK LAKESIDE CAMPGROUND FIREPLACE

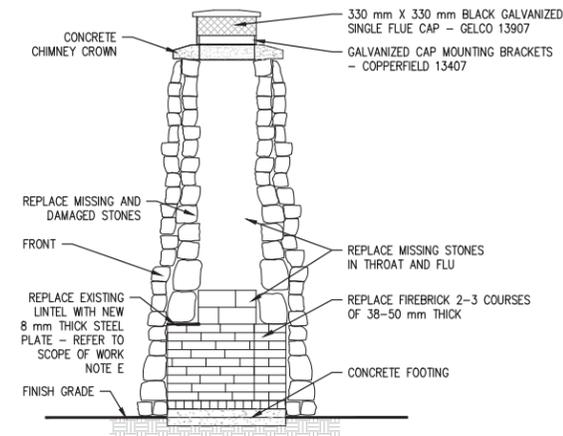
Surveyed by/Arpenté par: J.G. / Drawn by/Dessiné par: J.G. / Date: 16/03/23

Designed by/Concept par: T.W./L.T. / Reviewed by/Revisé par: T.W./L.T. / Scale/Echelle: AS SHOWN

Client Acceptance/Acceptation du client: / Approved by/Approuvé par: / Date: /

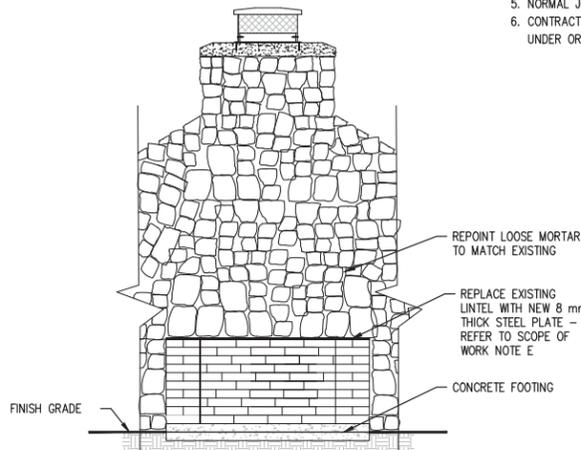
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Drawing Set No./N° de série du dessin: 60480648



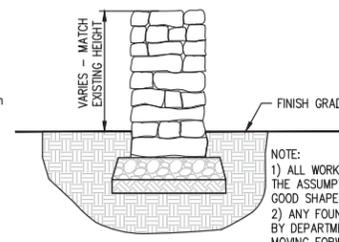
SECTION - CHIMNEY

Scale: 1:20



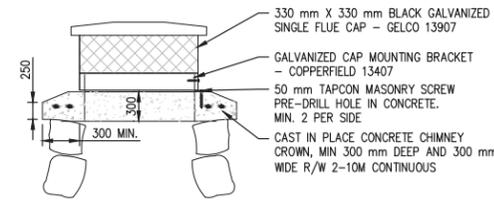
SECTION - CHIMNEY

Scale: 1:20



NATURAL STONE WALL - SECTION

Scale: 1:20



ENLARGEMNET - CHIMNEY CAP

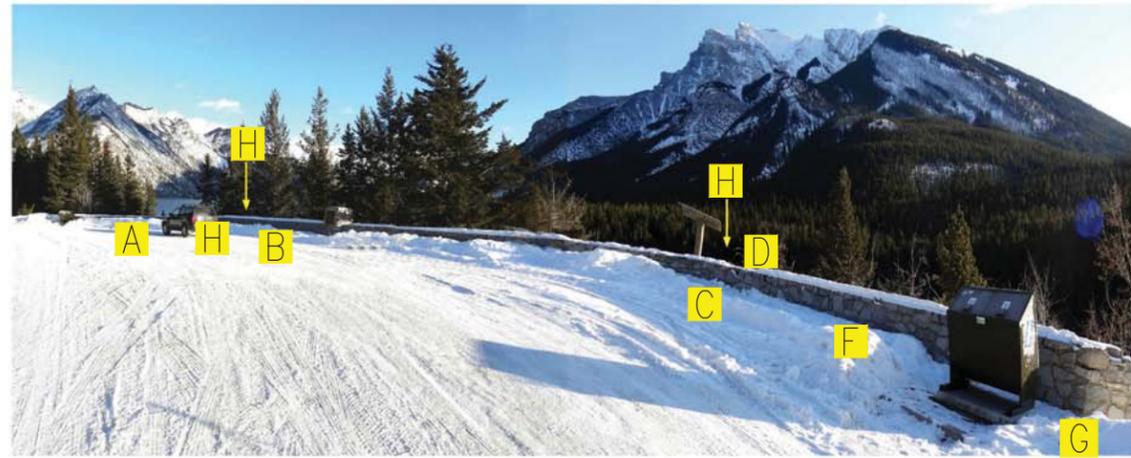
Scale: 1:10

SCOPE OF WORK

- A. REPLACE MISSING STONE ~ 100 mm LENGTH X 50 mm WIDTH X 50 mm HEIGHT. REPLACE AND REPAIR MORTAR
- B. REPLACE MISSING STONE ~ 400 mm LENGTH X 250 mm WIDTH X 100 mm HEIGHT. REPLACE AND REPAIR MORTAR
- C. REPLACE TWO MISSING STONES ~ 100 mm LENGTH X 75 mm WIDTH X 50 mm HEIGHT AND 200 mm LENGTH X 250 mm WIDTH X 75 mm HEIGHT. REPLACE AND REPAIR MORTAR
- D. REPLACE MISSING STONE ~ 100 mm LENGTH X 75 mm WIDTH X 50 mm HEIGHT. REPLACE AND REPAIR MORTAR
- E. REPLACE MISSING STONE ~ 75 mm LENGTH X 100 mm WIDTH X 50 mm HEIGHT. REPLACE AND REPAIR MORTAR
- F. REPLACE MISSING STONE ~ 75 mm LENGTH X 100 mm WIDTH X 50 mm HEIGHT. REPLACE AND REPAIR MORTAR
- G. REPLACE FIVE MISSING SLABS ~ 50 mm LENGTH X 250-300 mm WIDTH X 200-250 mm HEIGHT. REPLACE AND REPAIR MORTAR
- H. REPOINT LOOSE MORTAR ~ MATCH EXISTING ~ 40.0 l.m. OF WALL IN NEED OF MORTAR REPAIR

OVERALL WORK

- REAR OF WALL ~ 2000-6000 mm TALL
- TOTAL WALL LENGTH 60 l.m.



MASONRY NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. MASONRY:
 - MORTAR TYPE S - REFER TO SPECIFICATIONS
3. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
 - MASONRY: CSA A371-14 MASONRY CONSTRUCTION FOR BUILDING
4. MATERIALS SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - MORTAR AND GROUT: CSA A179-14, MORTAR AND GROUT FOR UNIT MASONRY
 - REINFORCED STEEL: CAN/CSA G30. 18-09, GRADE 400
5. NORMAL JOINT SIZE TO BE 10 mm
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO UNDER OR ABOVE GROUND SERVICES.

GENERAL NOTES:

- SITE WORK**
1. CONTRACTOR TO CALL ALBERTA ONE CALL AT 1-800-242-3447, AND ALL OTHER UTILITIES, AS REQUIRED, TO HAVE EXISTING UTILITIES LOCATED PRIOR TO START OF ANY CONSTRUCTION.
 2. CONTRACTOR IS TO VISIT THE SITE TO CONFIRM ALL SITE CONDITIONS PRIOR TO SUBMITTING BIDS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION.
 3. CONTRACTOR IS RESPONSIBLE FOR THE HOARDING OF ALL TREES WITHIN OR ADJACENT TO CONSTRUCTION AREAS, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
 4. CONTRACTOR IS RESPONSIBLE FOR HAULING OF ALL EXCESS MATERIALS OFF THE SITE TO A LOCATION APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
 5. CONTRACTOR IS RESPONSIBLE FOR GENERAL SITE CLEANUP.
 6. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO LANDSCAPED AREAS AND MUST MAKE ALL NECESSARY RESTORATIONS AND REPAIRS, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
 7. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION METHODS
- PERMITS AND STANDARDS**
1. ALL ANCILLARY WORK NORMALLY ASSOCIATED WITH THIS TYPE OF CONSTRUCTION SHALL BE DEEMED TO BE PART OF THE CONTRACT.

MATERIALS

1. THE CONTRACTOR SHALL SUPPLY ALL MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS. ANY DISCREPANCIES IN QUANTITIES SHALL BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR DIRECTION.
2. NO SUBSTITUTION OF MATERIAL, PRODUCTS OR QUANTITIES SHALL BE PERMITTED WITHOUT PRIOR CONSENT OF THE DEPARTMENTAL REPRESENTATIVE.

GENERAL

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE WRITTEN SPECIFICATIONS, DRAWINGS AND DETAILS FOR THIS PROJECT.
2. ANY AMBIGUITY IN THIS DRAWING OR ACCOMPANYING DETAILS IS TO BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE FOR DIRECTION. THE CONTRACTOR IS NOT TO PROCEED IN UNCERTAINTY.
3. LIMITS OF THE WORK ARE TO BE CLEARLY UNDERSTOOD BY THE CONTRACTOR PRIOR TO ANY WORK TAKING PLACE ON SITE. THE CONTRACTOR IS TO CONTACT THE DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION IF REQUIRED.
4. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO DEPARTMENTAL REPRESENTATIVE.
5. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

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| 1 | 16/03/23 | Issued for Tender | J.G. | - |
|-----|----------|---------------------------|------------------------|---------------------|
| 0 | 16/02/22 | Issued for 95% Submission | J.G. | - |
| No. | Date | Description | Drawn by / Dessiné par | Approved / Approuvé |

Revision / Revision

| | | |
|---|---------------|------------------------|
| A | Detail number | A Numéro de détail |
| B | Sheet number | B Numéro de la feuille |

Linear dimensions in millimetres / Dimensions linéaires en millimètres

Consultant's Name / Nom de l'expert-conseil: **AECOM**

Eng. Stamp: [Professional Engineer Stamp]

Parks Canada / Parcs Canada
 Asset Management / Gestion des biens
 Western and Northern Region / Région de l'Ouest et du Nord



Project title/Titre du projet
**ROCK WALL PROJECT
 BANFF NATIONAL PARK**

Drawing title/Titre du dessin
**MINNEWANKA LOOP VIEWPOINT
 ROCK WALL**

| | | |
|---|------------------------|----------------------------|
| Surveyed by/Arpenté par | Drawn by/Dessiné par | Date |
| Designed by/Concept par | Reviewed by/Revisé par | Scale/Echelle |
| Client Acceptance/Acceptation du client | | Approved by/Approuvé par |
| Project No./N° du projet | Asset No./N° du bien | Sheet No./N° de la feuille |
| Drawing Set No./N° de série du dessin | | L-1100 |
| 60480648 | | |