



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

Canada

ELK ISLAND NATIONAL PARK

ISSUED FOR TENDER

PROJECT:	PICNIC SHELTERS REMEDIATION
SITE:	ELK ISLAND NATIONAL PARK
PCA PROJ. NUMBER:	5P426-13-0009
CONTRACT NUMBER:	5P420-13-5077
CONSULTANT PROJ. NUMBER:	60273453
DATE:	2013-06-28

DRAWING LIST

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STRUCTURAL CONSULTANT



ADDRESS : 17007 - 170 STREET
 EDMONTON,
 ALBERTA, T5S 1G3

PHONE: (780) 486 - 7000

GENERAL NOTES:

1. READ THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER PERTINENT CONTRACT DOCUMENTS.
2. ALL DIMENSIONS ARE IN METRIC UNITS UNLESS NOTED. CONTRACTOR TO CONFIRM DIMENSIONS AND ALL OTHER CRITICAL DETAILS PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES AND OBTAIN APPROVAL PRIOR TO PROCEEDING WITH CONSTRUCTION. DO NOT SCALE DRAWINGS.
3. THE DESIGN AND CONSTRUCTION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010, AND REFERENCED STANDARDS THEREIN.
4. REPORT DISCREPANCIES TO THE STRUCTURAL ENGINEER & WAIT FOR INSTRUCTIONS BEFORE PROCEEDING WITH THE WORK.
5. OBTAIN ALL NECESSARY SITE PERMITS AND PROCEDURES NECESSARY TO CARRY OUT THE WORK.
6. VERIFY LOCATION OF UNDERGROUND SERVICES AND BE RESPONSIBLE FOR DISRUPTIONS.
7. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. PROVIDE TEMPORARY BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
8. CONSTRUCTION METHODS REQUIRING TEMPORARY SHORING, OR BRACING, SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER, REGISTERED IN THE PROVINCE OF ALBERTA, TO PERFORM AND TAKE RESPONSIBILITY FOR ANY SHORING OR OTHER DESIGNS REQUIRED TO COMPLETE THE CONSTRUCTION.
9. NOTIFY THE STRUCTURAL ENGINEER 72 HOURS IN ADVANCE FOR SITE REVIEW.
10. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.
11. MAINTAIN PROJECT RECORDS AND RECORD ALL DEVIATIONS FROM THE CONTRACT DRAWINGS AND DOCUMENTS.
12. REPAINT ALL CONCRETE BLOCK, REPAINT ALL WOOD COMPONENTS, INCLUDING COLUMNS, BRACES, BEAMS, FASCIA, AND UNDERSIDE OF DECK.

REFERENCE SPECIFICATIONS:

1. CAN/CSA 086 - ENGINEERING DESIGN IN WOOD

DESIGN LOADS

1. DEAD LOADS: ROOF = 1.68 kPa
2. IMPORTANCE CATEGORY: NORMAL
3. SNOW LOADS: Ss = 1.7 kPa
Sr = 0.1 kPa
Is = 1.00 (ULS)
Is = 0.90 (SLS)
MODIFY FOR EXPOSURE AND DRIFT AS PER NBCC 2010

CONCRETE

1. ALL CONCRETE AND CONCRETE WORK SHALL CONFORM TO CAN/CSA-A23.1-09.
2. ALL CONCRETE SHALL BE NORMAL-DENSITY WITH NORMAL-DENSITY FINE AND COARSE AGGREGATE AND BE PROPORTIONED TO MEET THE FOLLOWING REQUIREMENTS:

LOCATION	CSA EXPOSURE CLASS	CEMENT TYPE	MINIMUM COMPRESSIVE STRENGTH (MPa)	MAX W/C RATIO	MAX AGGREGATE (mm)	AIR CONTENT (%)
COLUMN BLOCKS	F-2	GU	25 @ 28 DAYS	0.55	20	4-7

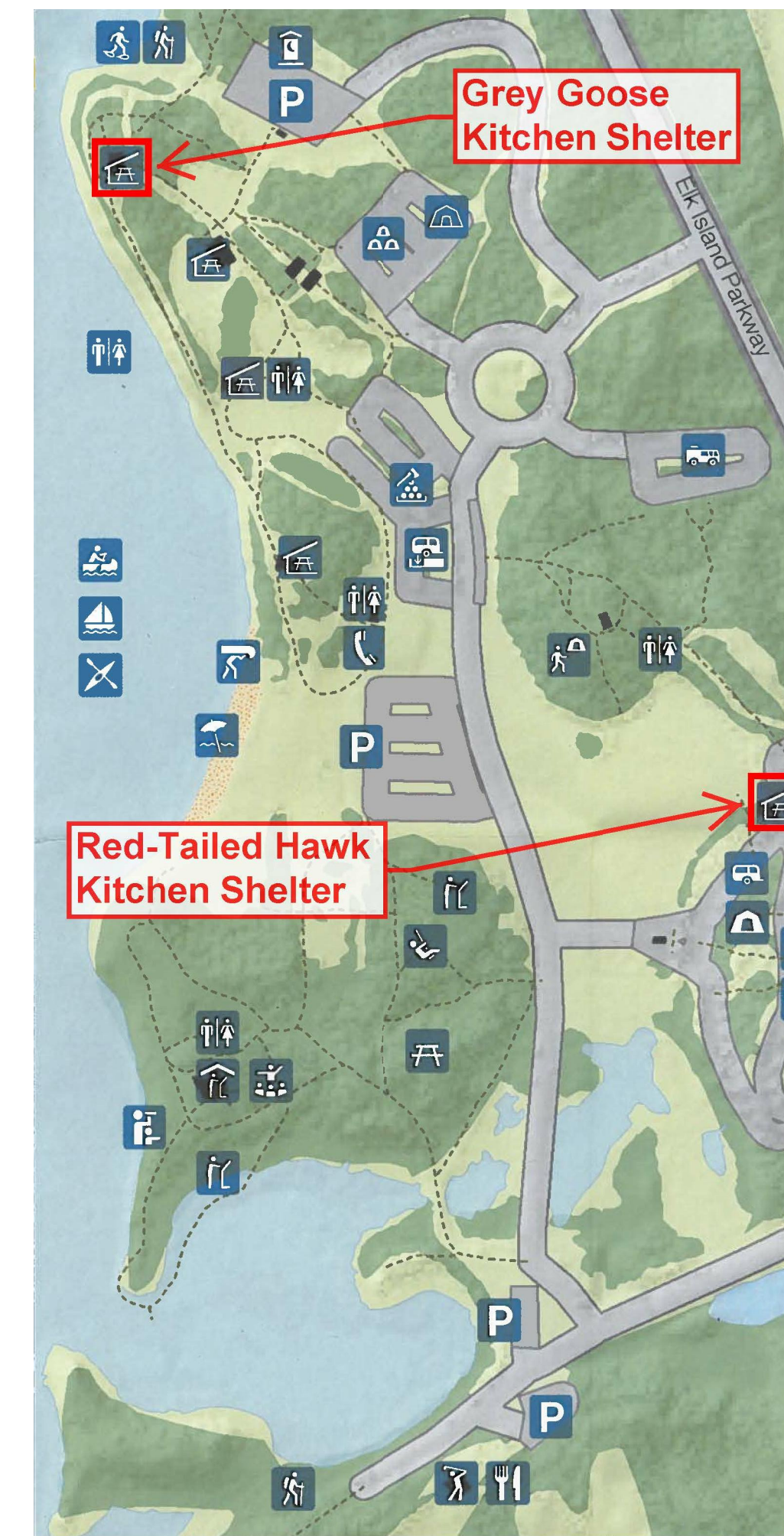
3. CONCRETE SHALL NOT BE ALLOWED TO FREE FALL MORE THAN 1.2 METERS TO PREVENT AGGREGATE SEPERATION.
4. PROVIDE 20mm CHAMFER ON ALL EXPOSED CONCRETE CORNERS.

CONCRETE REINFORCEMENT

1. REINFORCING STEEL SHALL BE BILLET STEEL CONFORMING TO CAN/CSA-G30.18-M92 (R2007) GRADE 400.
2. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI DETAILING MANUAL OR THE REINFORCING STEEL INSTITUTE OF CANADA DETAILING MANUAL.
3. CONCRETE COVER TO REINFORCING STEEL SHALL BE 40 mm.
4. SECURE REINFORCING AGAINST MOVEMENT DURING POURING.
5. DOWELS AND ANCHOR BOLTS SHALL BE SECURED IN POSITION BY MEANS OF TEMPLATES BEFORE CONCRETE IS POURED.

ROUGH CARPENTRY

1. TIMBER CONSTRUCTION SHALL CONFORM TO CSA 086 AND PART 9 OF NBCC 2010.
2. WOOD FRAMING MATERIAL (UNLESS SPECIFIED OTHERWISE): D. FIR-L NO.1/NO.2 (S-DRY)
3. ALL TRUSSES, JOISTS, FRAMING, AND DECKING DELIVERED TO THE SITE SHALL BE KEPT DRY. NO WARPED MATERIALS SHALL BE USED.
4. ALL LUMBER IN DIRECT CONTACT WITH MASONRY, CONCRETE, SOIL, OR MOISTURE SHALL BE PRESSURE TREATED TO PWF STANDARDS.



MAP OF ASTOTIN LAKE AREA, ELK ISLAND NATIONAL PARK: SHELTER LOCATIONS

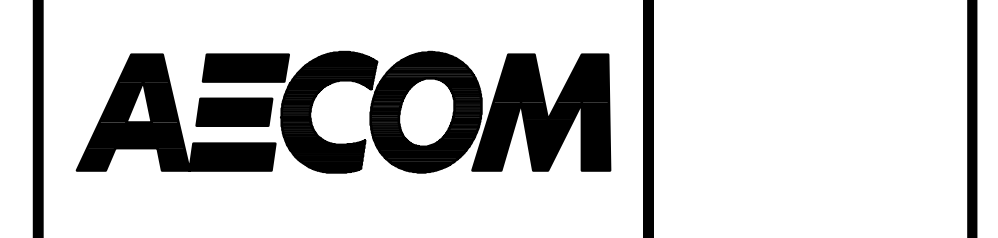
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2	05/09/13	ISSUED FOR 99% REVIEW	DR	CG
1	04/19/13	ISSUED FOR 50% REVIEW	DR	CG
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

A B	Detail number	A Numero de detail
	Sheet number	B Numero de la feuille

Linear dimensions in millimetres Dimensions linéaires en millimetres

Consultant's Name
Nom de l'expert-conseil



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



Professional Engineer
Ingénieur professionnel

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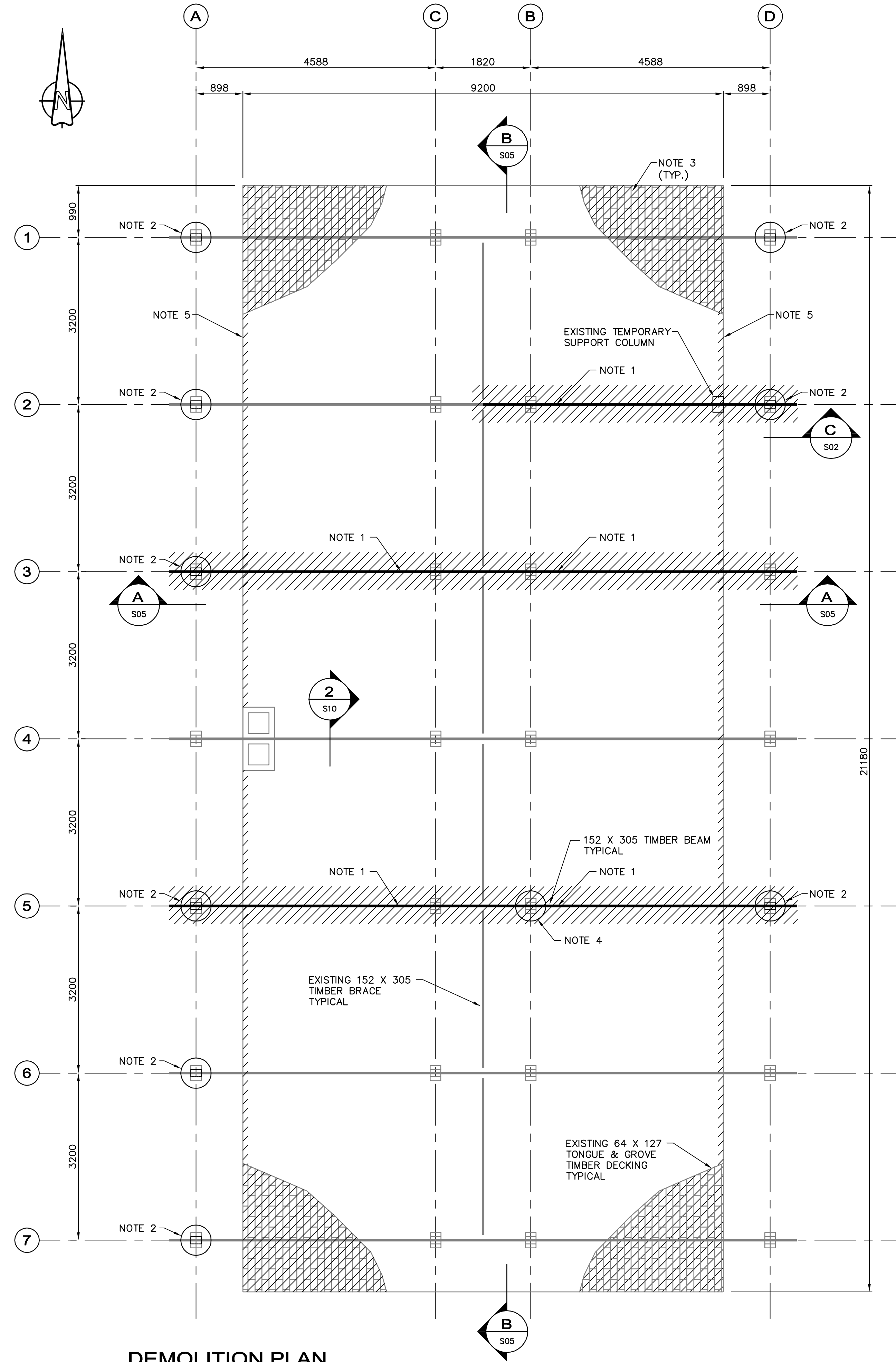
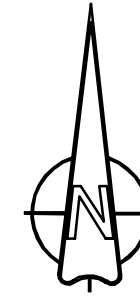
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Date: June 28, 2013
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta

Project title/Titre du projet
**ELK ISLAND NATIONAL PARK
PICNIC SHELTER
REMEDATION**

Drawing title/Titre du dessin
GENERAL NOTES

Surveyed by/Arpente par DR	Drawn by/Dessiné par DR	Date FEBRUARY 2013
Designed by/Concept par SF	Reviewed by/Revisé par CG	Scale/Echelle AS NOTED
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date

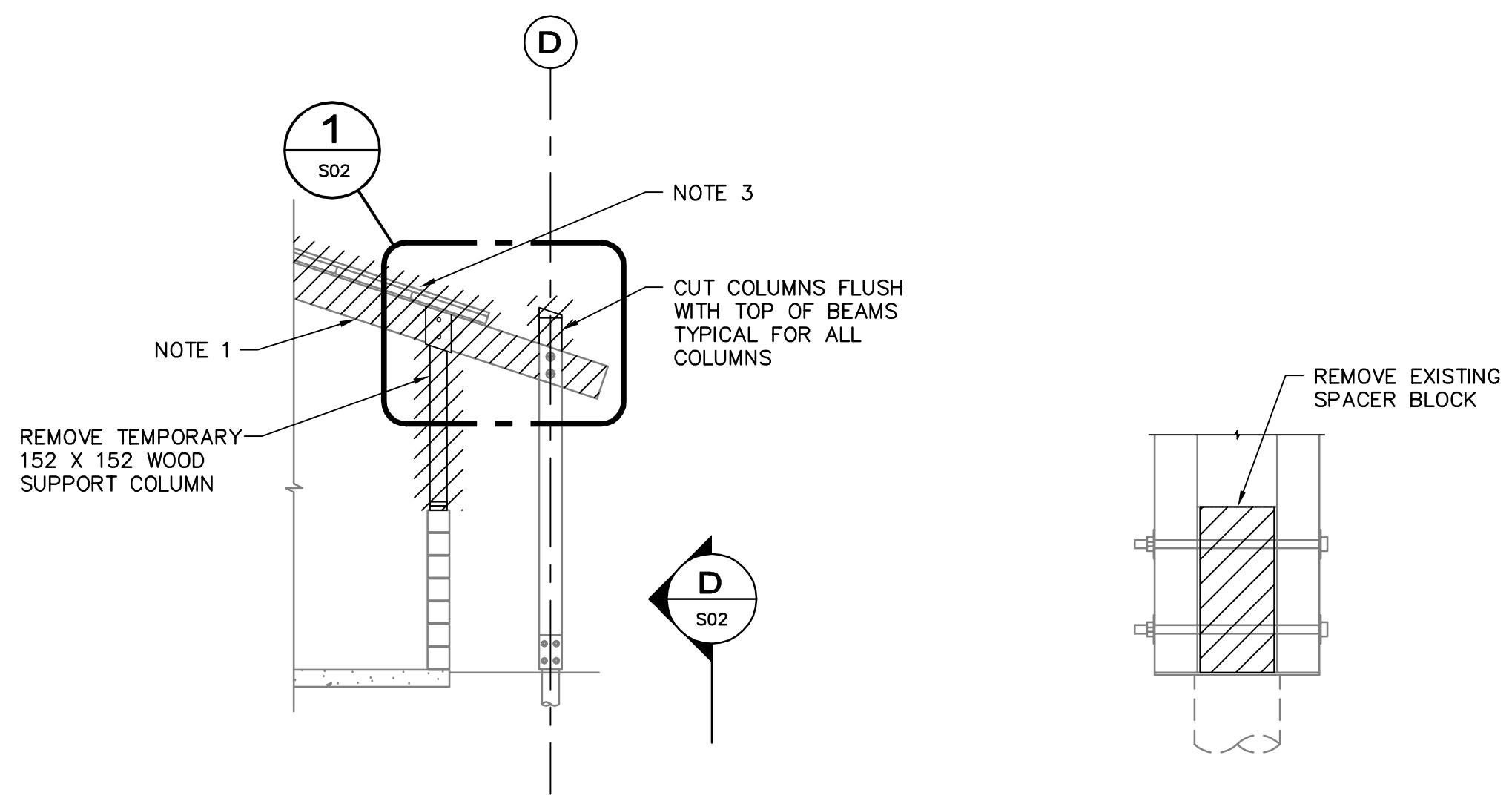
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Drawing Set No./N° de série du dessin		1 OF 10



DEMOLITION PLAN

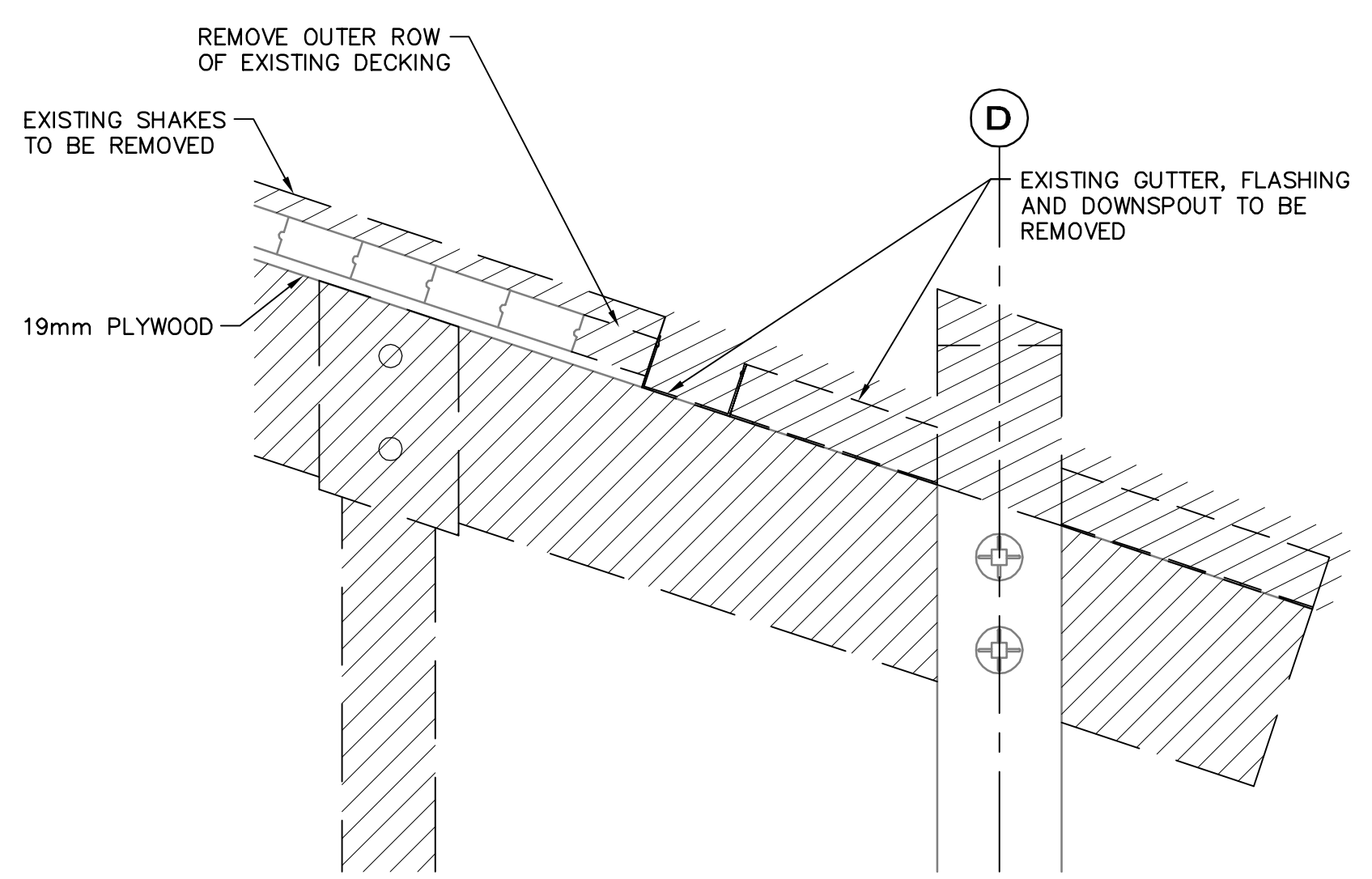
SCALE 1:50
0 500 1000 1500 mm

- NOTES:**
1. REMOVE EXISTING BEAM FOR REPLACEMENT.
 2. REMOVE COLUMN BLOCK AND CLEAN UP PLATES FOR NEW SPACER CONCRETE BLOCKS.
 3. REMOVE SHAKES FROM ENTIRE ROOF AREA AND PREPARE SURFACE FOR METAL ROOF.
 4. REMOVE SOUTH COLUMN MEMBER FOR REPLACEMENT.
 5. REMOVE THE FIRST OUTER ROW OF ROOF DECKING, SO EXISTING T & G JOINTS INTERFACE WITH NEW DECKING TO FORM CONTINUOUS SURFACE.
 6. REMOVE ALL FLASHING, GUTTERS, AND DOWN SPOUTS (TYP.)



SECTION C
SCALE 1:50
0 500 1000 1500 mm

SECTION D
SCALE 1:10
0 100 200 300 mm



DETAIL 1
SCALE 1:10
0 100 200 300 mm

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
3	06/28/13	ISSUED FOR TENDER	RP	CG
2	05/09/13	ISSUED FOR 99% REVIEW	DR	CG
1	04/19/13	ISSUED FOR 50% REVIEW	DR	CG

Revision / Revision

A	Detail number	A	Numero de detail
B	Sheet number	B	Numero de la feuille

Linear dimensions in millimetres / Dimensions linéaires en millimètres

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

Eng. Stamp / Sceau de l'ingénieur

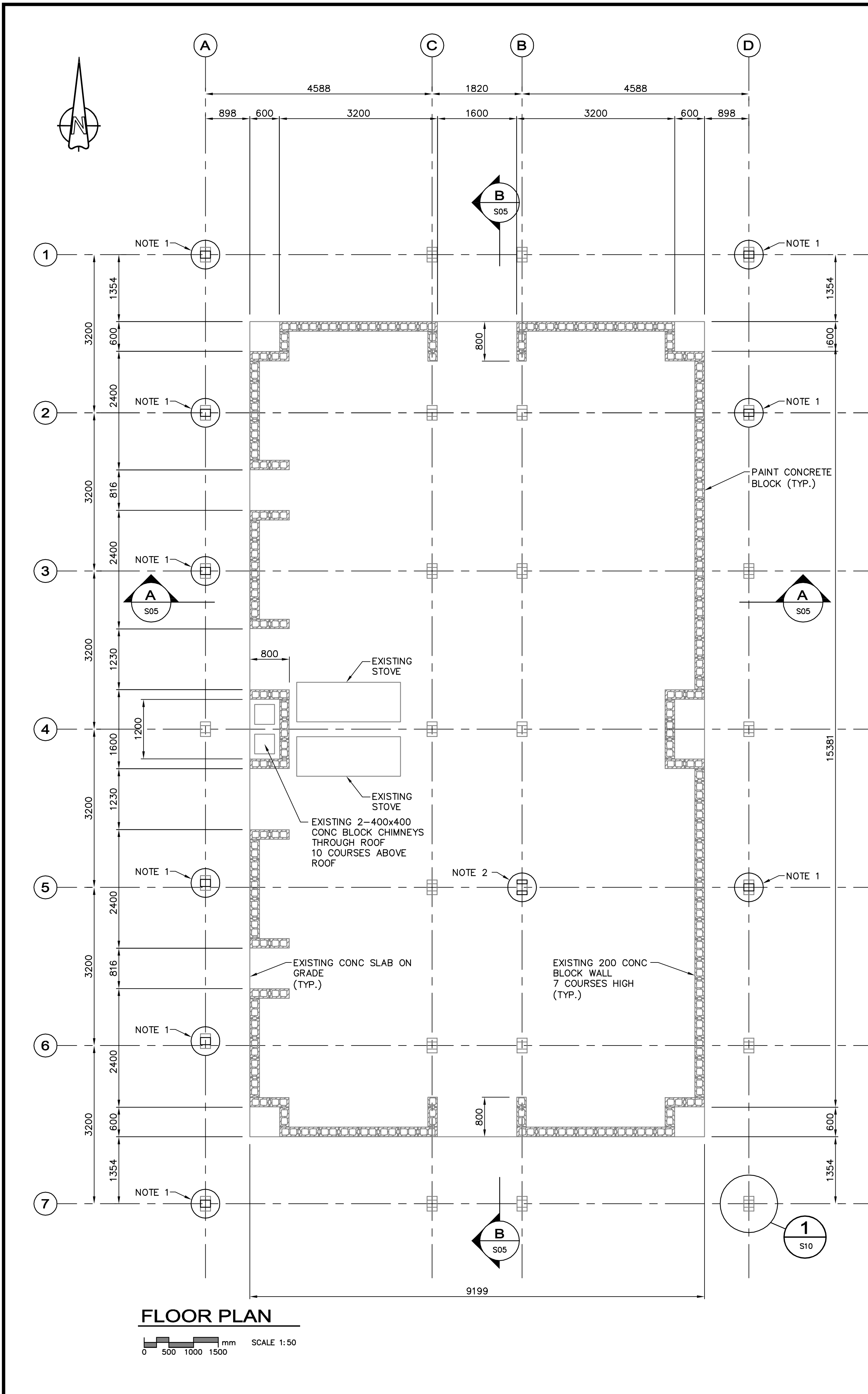
Canada
Parks Canada / Parcs Canada
Asset Management / Gestion des biens
Western and Northern Region / Région de l'Ouest et du Nord

Professional Engineer / Ingénieur
Signature: [Signature]
Date: June 20, 2013
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta

Project title / Titre du projet
ELK ISLAND NATIONAL PARK PICNIC SHELTER REMEDIATION

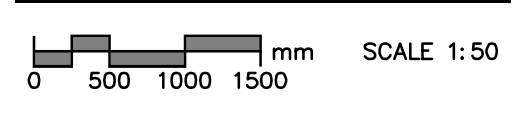
Drawing title / Titre du dessin
RED TAILED HAWK DEMOLITION PLAN AND SECTION

Surveyed by / Arpenté par: DR	Drawn by / Dessiné par: DR	Date: FEBRUARY 2013
Designed by / Concept par: SF	Reviewed by / Révisé par: CG	Scale / Echelle: AS NOTED
Client Acceptance / Acceptation du client: [Signature]		Approved by / Approuvé par: [Signature]
Project No. / N° du projet: SP426-13-0009	Asset No. / N° du bien:	Sheet No. / N° de la feuille: S02
Drawing Set No. / N° de série du dessin:		2 OF 10



- NOTES:
1. REPLACE COLUMN BLOCK WITH CONCRETE AS PER DETAIL 3 ON SHEET NO. S10.
 2. REPLACE COLUMN SOUTH SECTION WITH 203 X 76 D.FIR-L COLUMN AND PAINT TO MATCH.

FLOOR PLAN



No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
3	06/28/13	ISSUED FOR TENDER	RP	CG
2	05/09/13	ISSUED FOR 90% REVIEW	DR	CG
1	04/19/13	ISSUED FOR 50% REVIEW	DR	CG

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

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

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

PROFESSIONAL ENGINEER
INGÉNIEUR GÉNÉRALISTE

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Signature: *[Signature]*
Date: June 20, 2013
PERMIT NUMBER: P10450
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Project title/Titre du projet

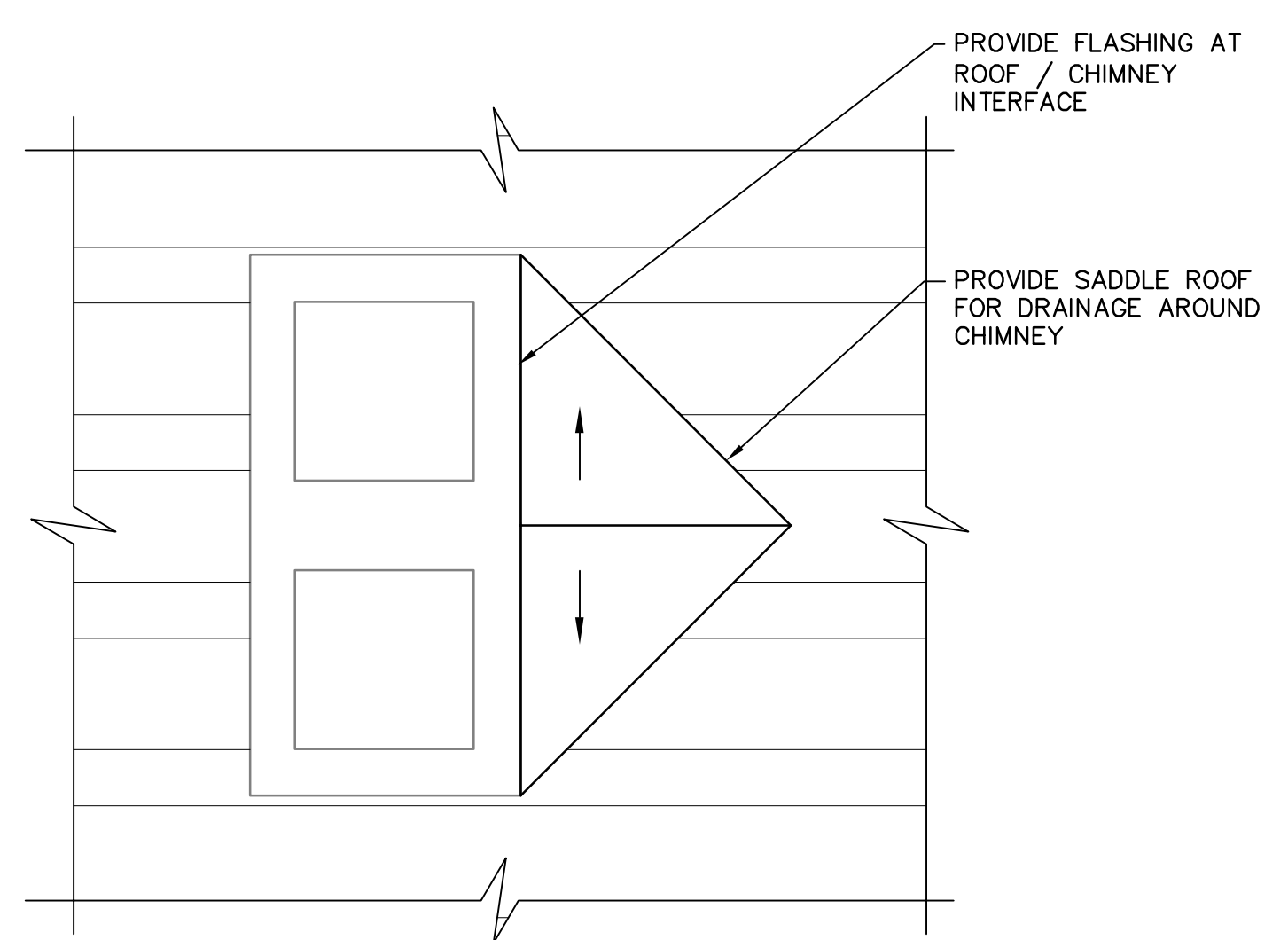
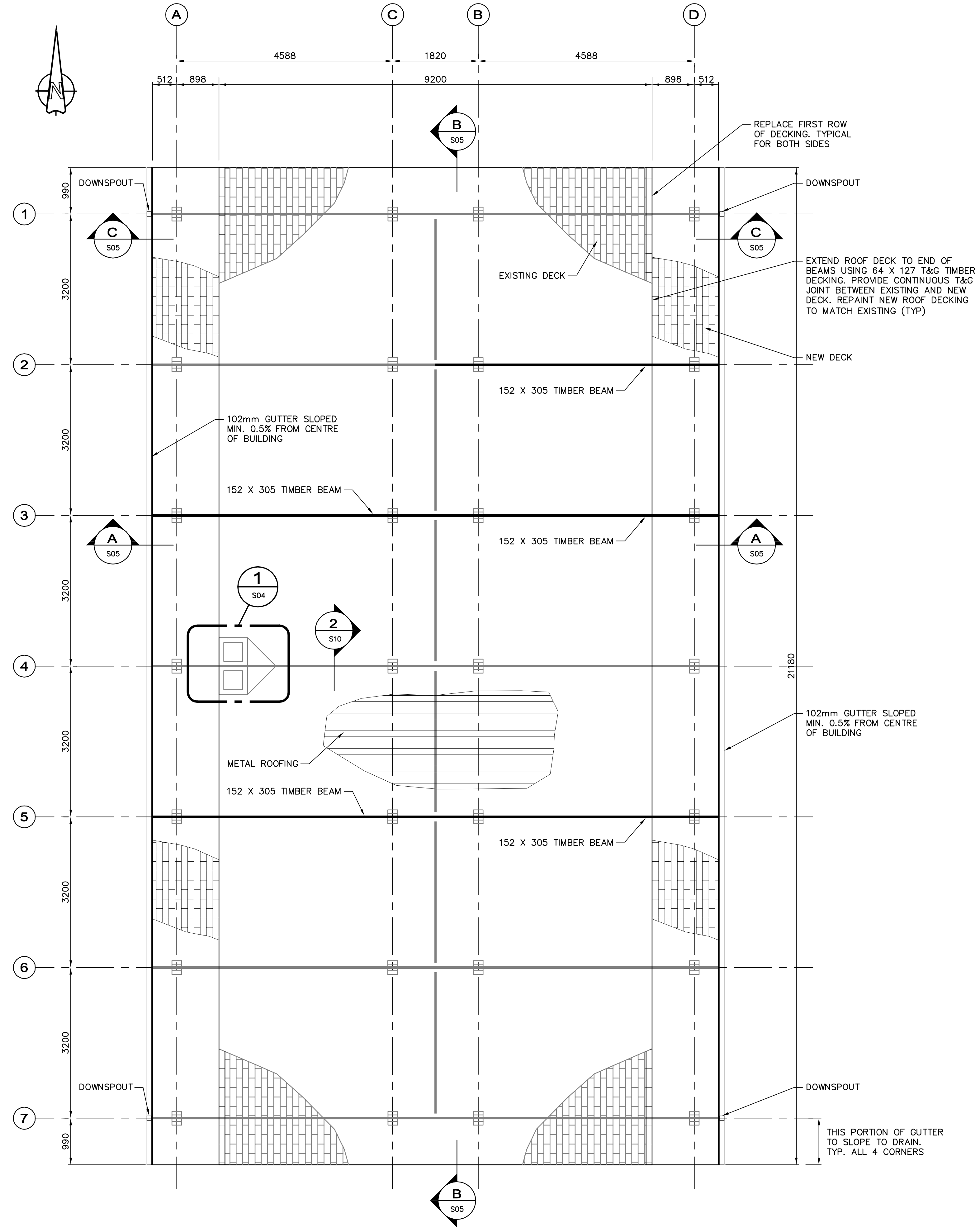
**ELK ISLAND NATIONAL PARK
PICNIC SHELTER
REMEDATION**

Drawing title/Titre du dessin

**RED TAILED HAWK
FLOOR PLAN**

Surveyed by/Arpenté par DR	Drawn by/Dessiné par DR	Date FEBRUARY 2013
Designed by/Concept par SF	Reviewed by/Revisé par CG	Scale/Echelle AS NOTED
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Project No./N° du projet SP428-13-0009		Sheet No./N° de la feuille S03
Drawing Set No./N° de série du dessin		3 OF 10

NOTE: NEW TIMBER BEAMS MAY BE D.FIR-L SELECT STRUCTURAL GRADE



DETAIL 1 SCALE 1:10

ROOF FRAMING PLAN

SCALE 1:50

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
3	06/28/13	ISSUED FOR TENDER	RP	CG
2	05/09/13	ISSUED FOR 99% REVIEW	DR	CG
1	04/19/13	ISSUED FOR 50% REVIEW	DR	CG

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

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Asset Management / Gestion des biens

Western and Northern Region / Région de l'Ouest et du Nord

Canada

PROFESSIONAL ENGINEER / INGÉNIEUR PROFESSIONNEL

Signature: [Signature]

Date: June 20, 2013

PERMIT TO PRACTICE / PERMIS D'EXERCICE

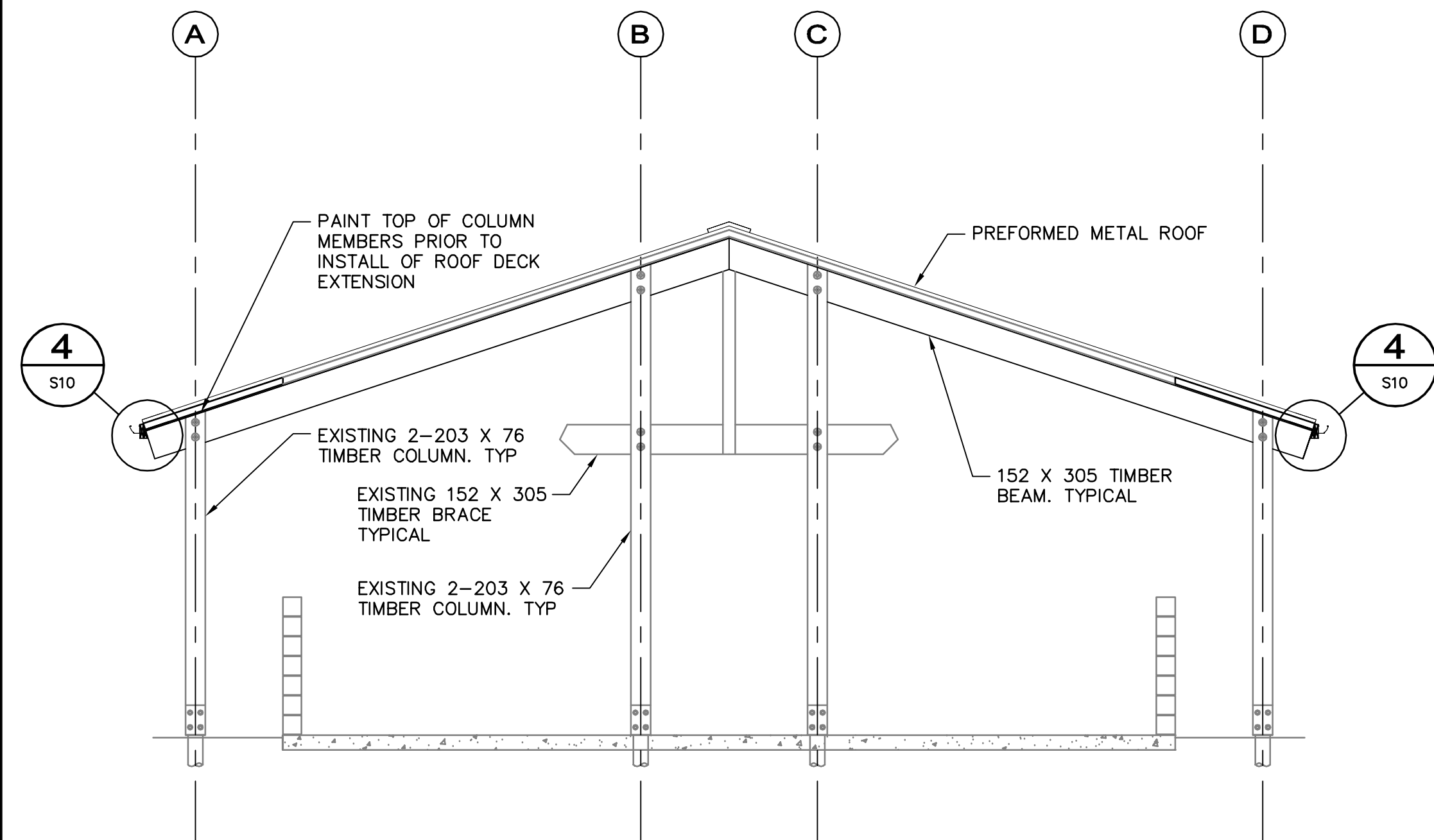
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Project title / Titre du projet: **ELK ISLAND NATIONAL PARK PICNIC SHELTER REMEDIATION**

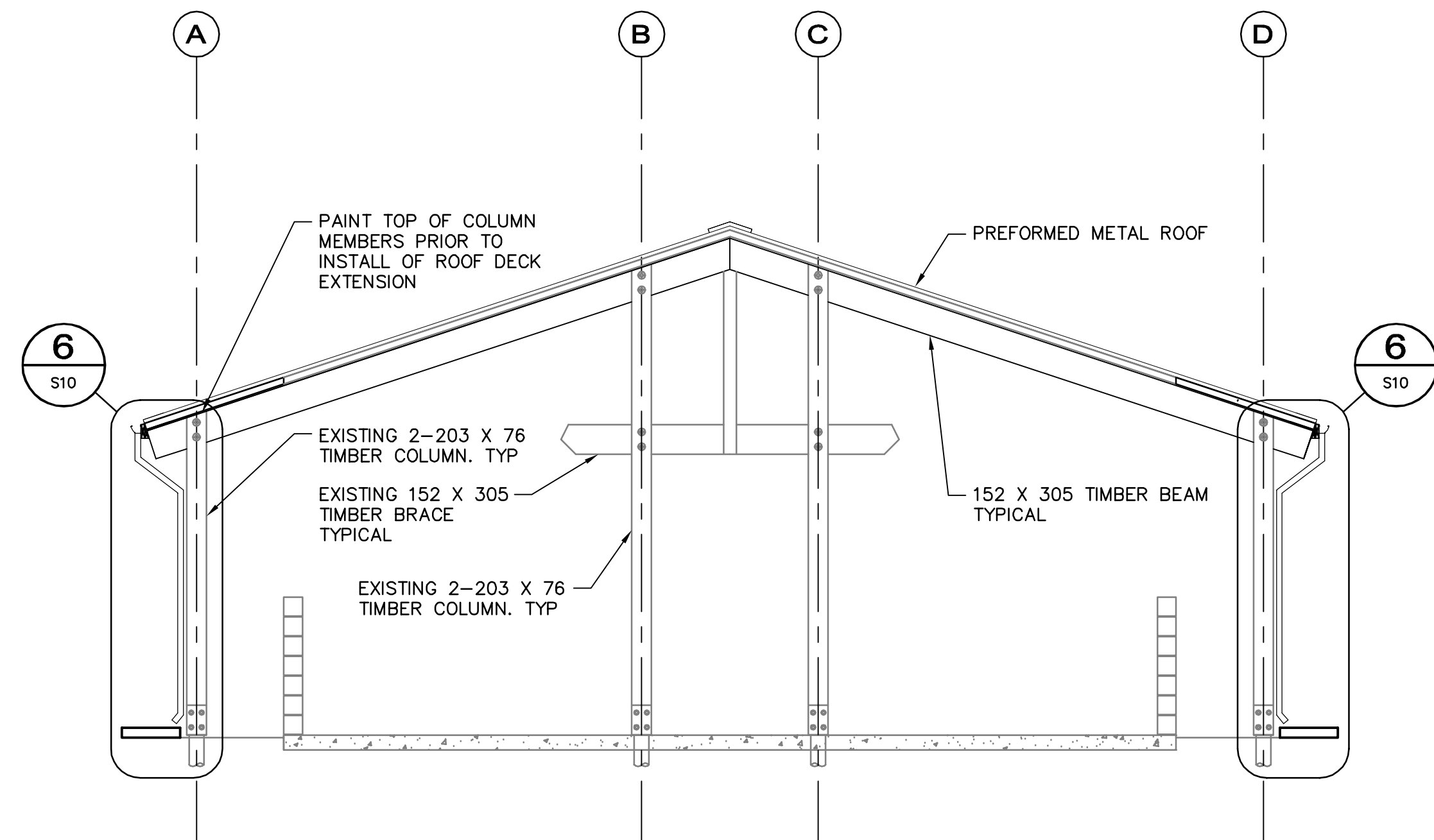
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Surveyed by / Arpenté par: DR	Drawn by / Dessiné par: DR	Date: FEBRUARY 2013
Designed by / Conçue par: SF	Reviewed by / Révisé par: CG	Scale / Echelle: AS NOTED
Client Acceptance / Acceptation du client: [Signature]		Approved by / Approuvé par: [Signature]

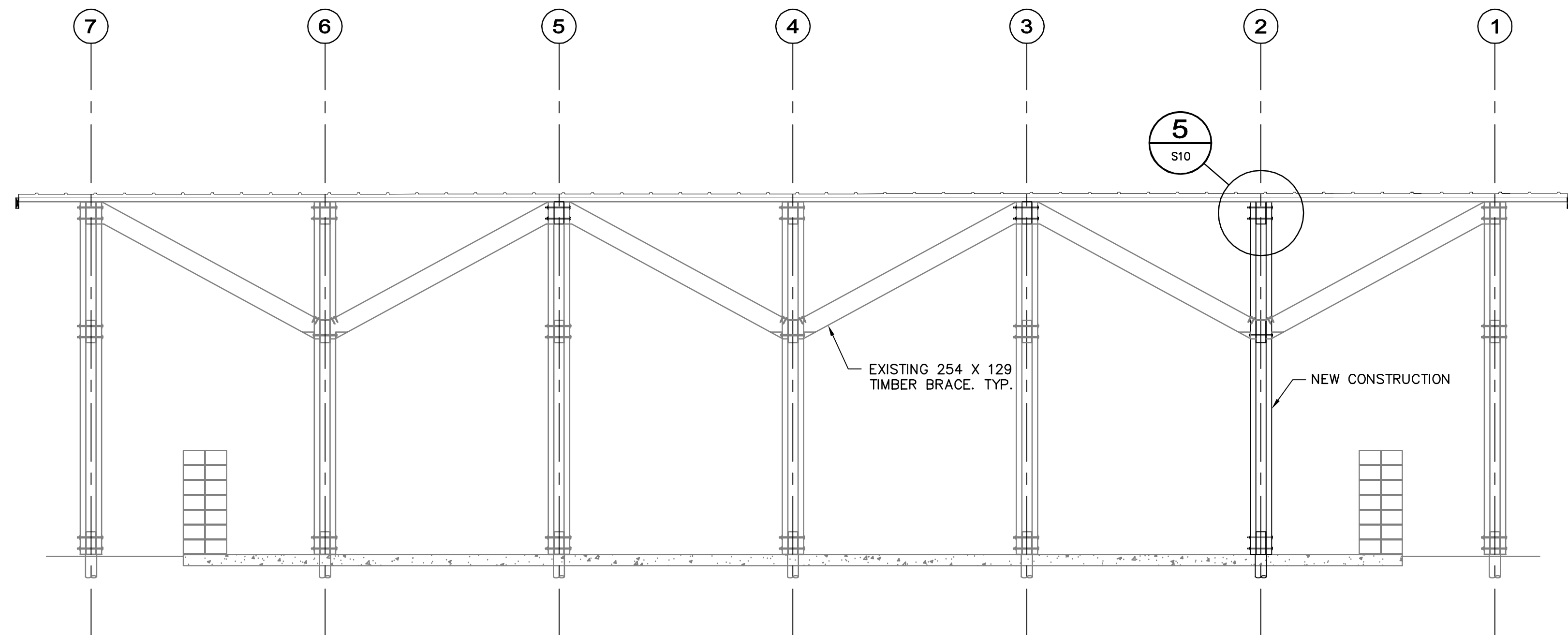
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Drawing Set No. / N° de série du dessin: [Blank]		4 OF 10



SECTION A
SCALE 1:50
0 500 1000 1500 mm



SECTION C
SCALE 1:50
0 500 1000 1500 mm



SECTION B
SCALE 1:50
0 500 1000 1500 mm

NOTE: PAINT ALL EXISTING AND NEW TIMBER (COLUMNS, BEAMS, AND UNDERSIDE OF ROOF DECK)

3	06/28/13	ISSUED FOR TENDER	RP	CG
2	05/09/13	ISSUED FOR 99% REVIEW	DR	CG
1	04/19/13	ISSUED FOR 50% REVIEW	DR	CG
No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé

Revision / Révision	
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**

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Canada

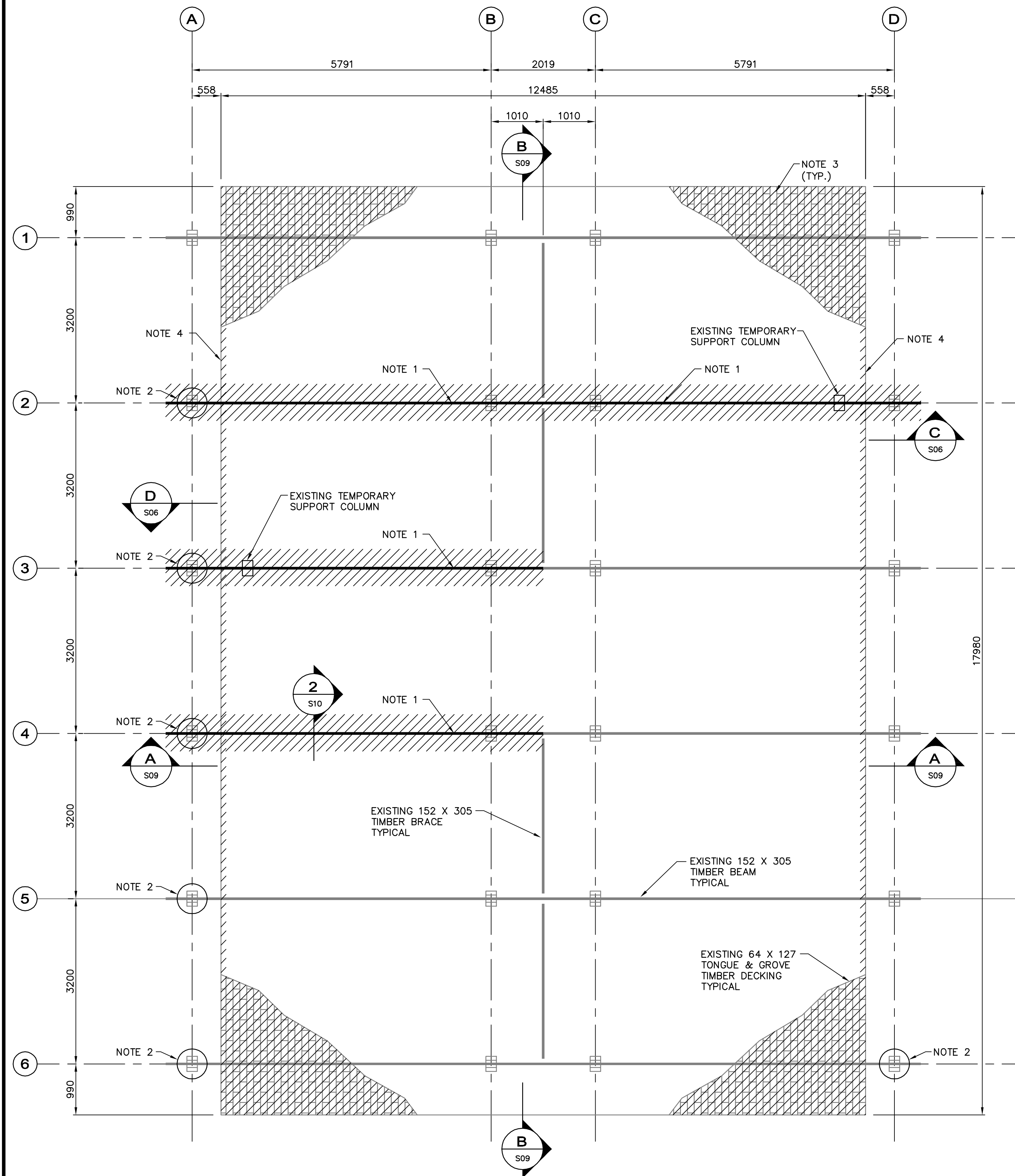
PROFESSIONAL ENGINEER / INGÉNIEUR GÉOLOGUE
Signature: [Signature]
Date: June 20, 2013
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The Association of Professional Engineers and Geoscientists of Alberta

Project title / Titre du projet: **ELK ISLAND NATIONAL PARK PICNIC SHELTER REMEDIATION**

Drawing title / Titre du dessin: **RED TAILED HAWK SECTIONS**

Surveyed by / Arpenté par: DR	Drawn by / Dessiné par: DR	Date: FEBRUARY 2013
Designed by / Concept par: SF	Reviewed by / Révisé par: CG	Scale / Echelle: AS NOTED
Client Acceptance / Acceptation du client: [Signature]	Approved by / Approuvé par: [Signature]	Date: [Date]

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Drawing Set No. / N° de série du dessin: [Blank]		5 OF 10

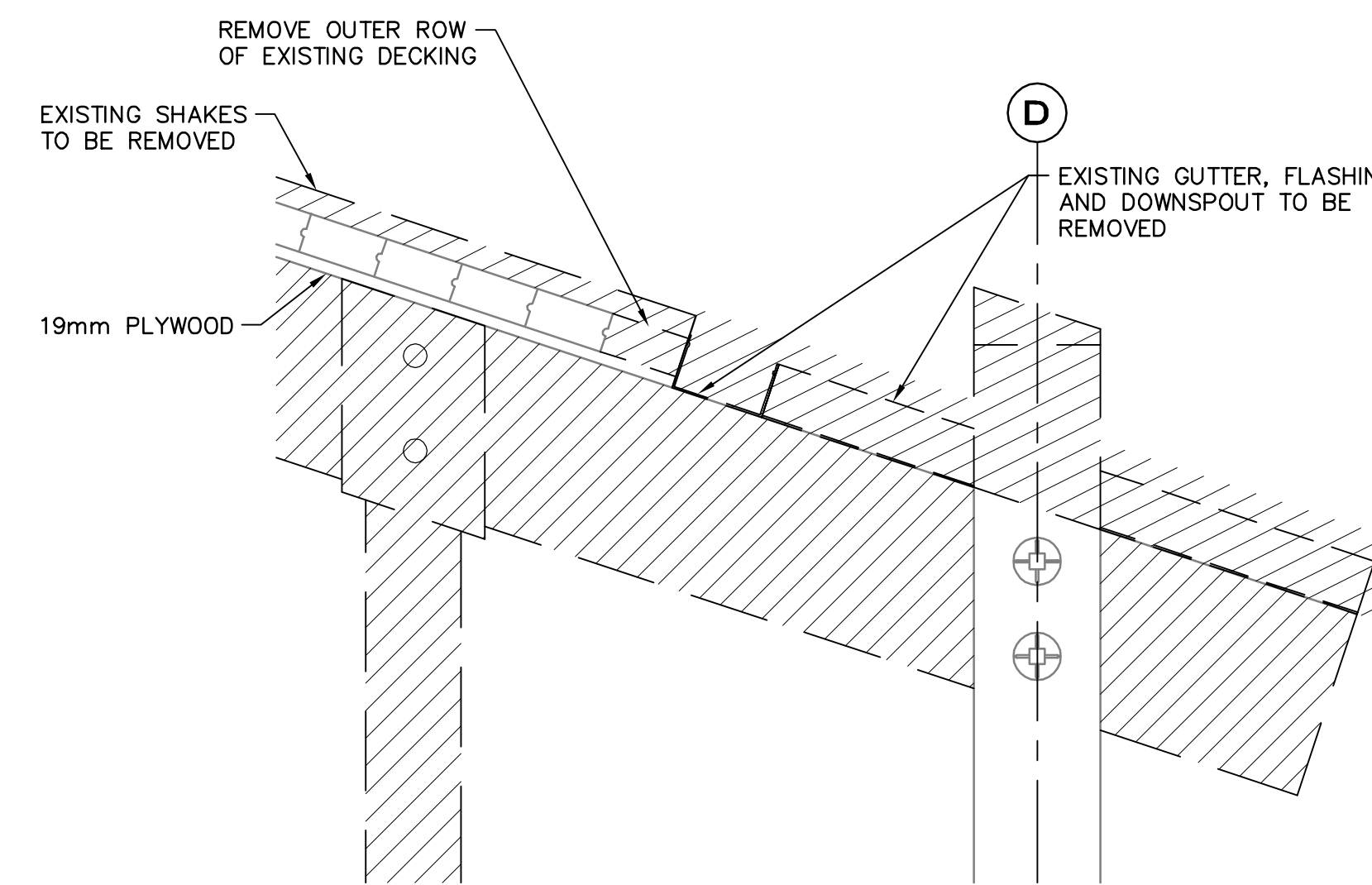
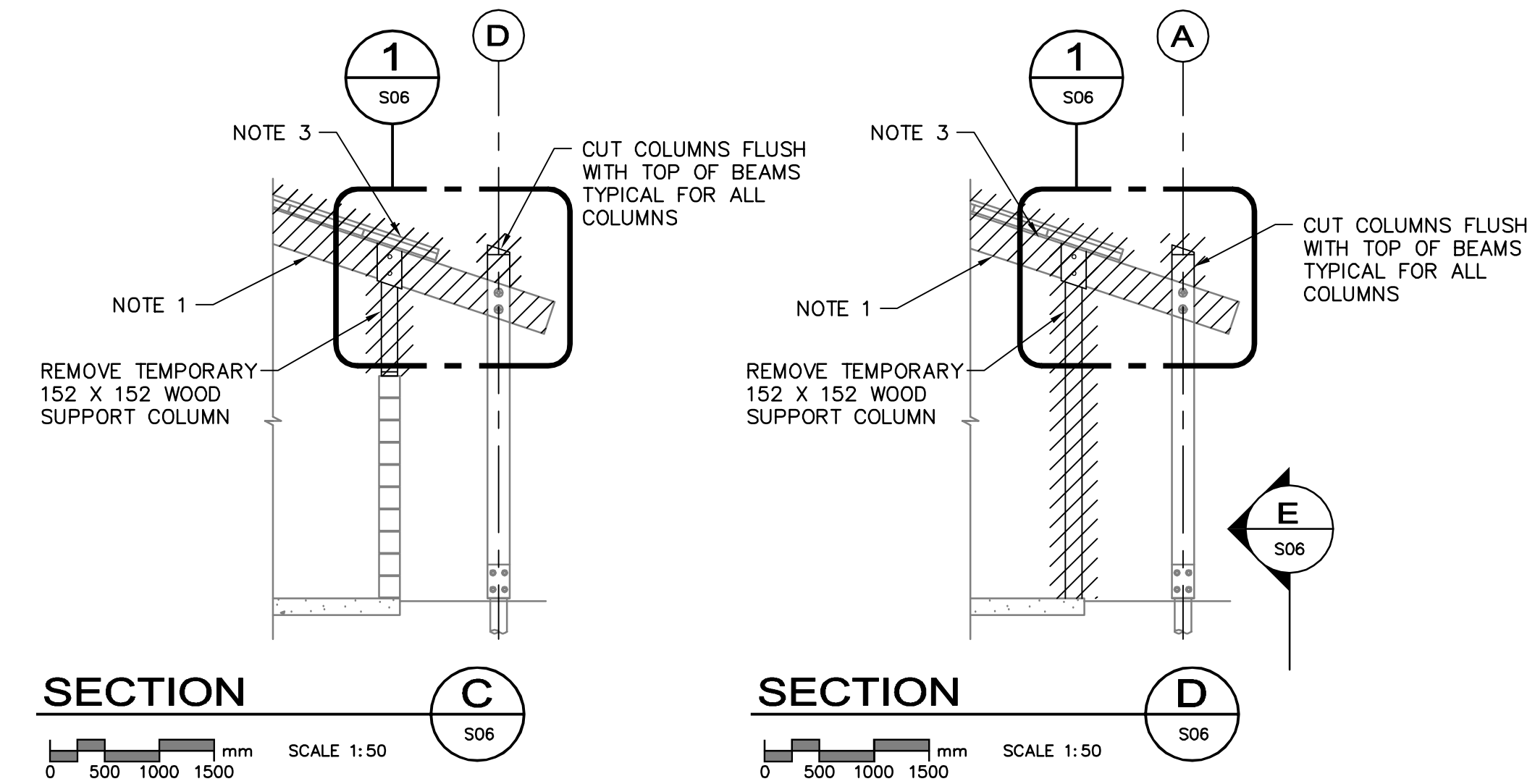


DEMOLITION PLAN

0 500 1000 1500 mm SCALE 1:50

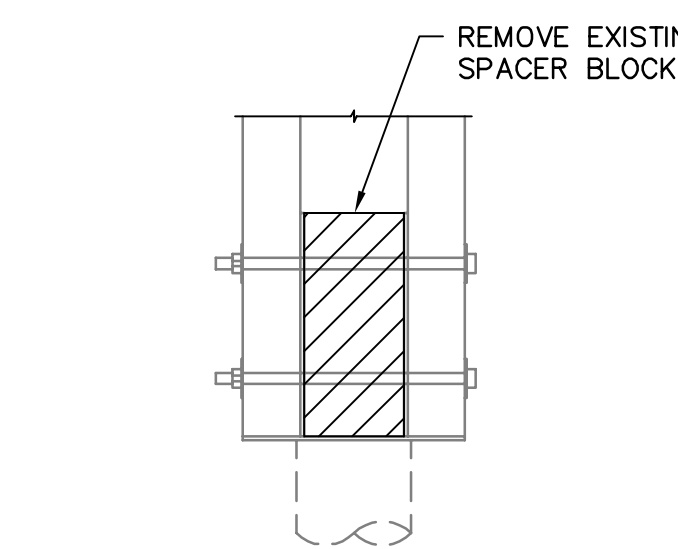
NOTES:

1. REMOVE EXISTING BEAM FOR REPLACEMENT.
2. REMOVE COLUMN BLOCK AND CLEAN UP PLATES FOR NEW CONCRETE BLOCKS.
3. REMOVE OLD SHAKES FROM ENTIRE ROOF AREA AND PREPARE SURFACE FOR METAL ROOF.
4. REMOVE THE FIRST OUTER ROW OF ROOF DECKING, SO EXISTING T & G JOINTS INTERFACE WITH NEW DECKING TO FORM CONTINUOUS SURFACE.
5. REMOVE ALL FLASHING, GUTTERS, AND DOWN SPOUTS (TYP.)



DETAIL 1

0 100 200 300 mm SCALE 1:10



SECTION E

0 100 200 300 mm SCALE 1:10

No.	Date	Description	Drawn by / Dessiné par	Approved / Approuvé
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1	04/19/13	ISSUED FOR 50% REVIEW	DR	CG

A	B	A	B
Detail number	Sheet number	A Numero de detail	B Numero de la feuille

Linear dimensions in millimetres / Dimensions linéaires en millimètres

Consultant's Name / Nom de l'expert-conseil



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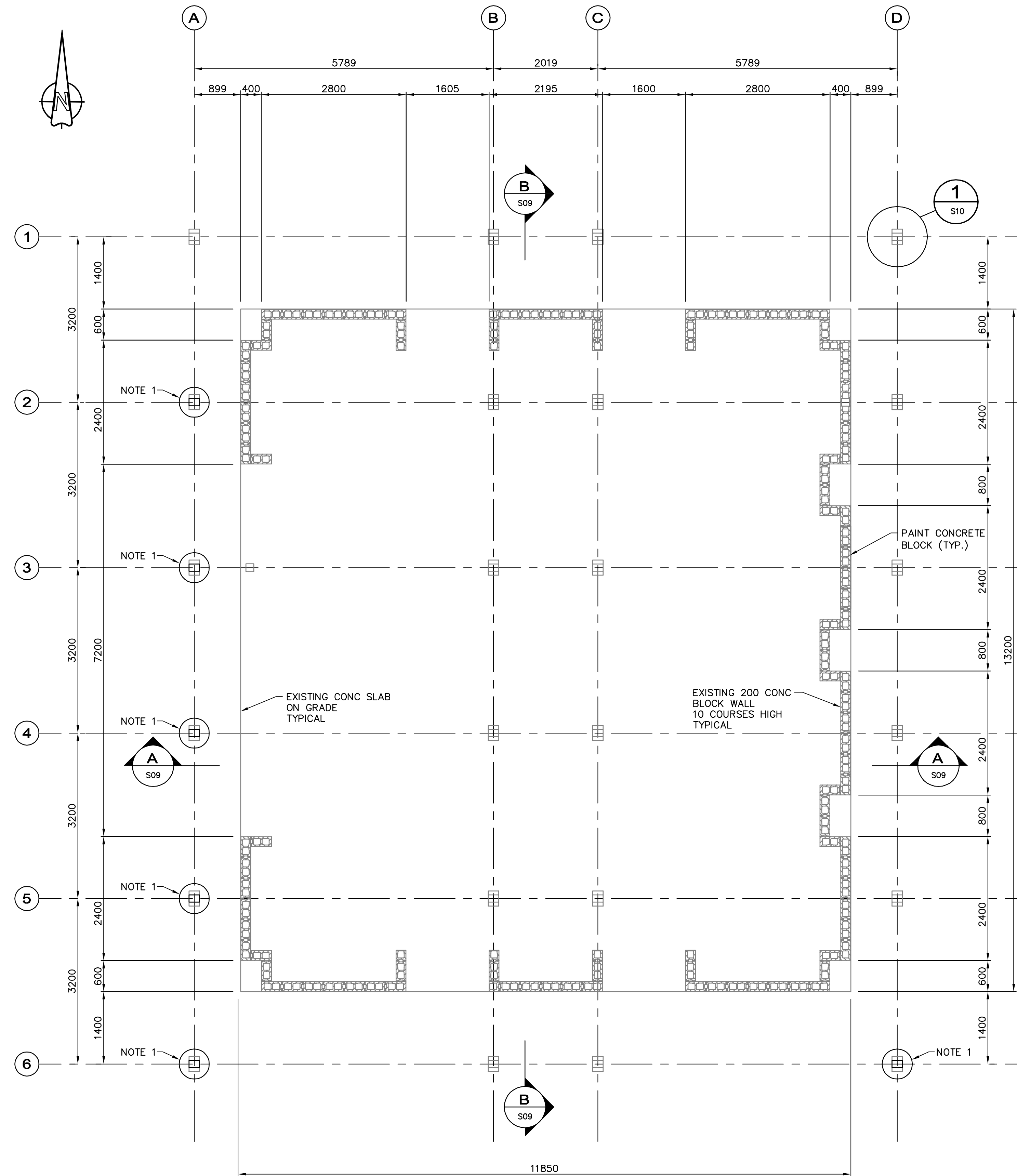
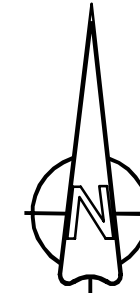
Professional Engineer / Ingénieur
Signature: [Signature]
Date: June 20, 2013
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta

Project title / Titre du projet
ELK ISLAND NATIONAL PARK PICNIC SHELTER REMEDIATION

Drawing title / Titre du dessin
GREY GOOSE DEMOLITION PLAN AND SECTION

Surveyed by / Arpenté par	DR	Drawn by / Dessiné par	DR	Date	FEBRUARY 2013
Designed by / Concept par	SF	Reviewed by / Révisé par	CG	Scale / Echelle	AS NOTED
Client Acceptance / Acceptation du client		Approved by / Approuvé par		Date	

Project No. / N° du projet	Asset No. / N° du bien	Sheet No. / N° de la feuille
SP426-13-0009		S06
Drawing Set No. / N° de série du dessin		6 OF 10



FLOOR PLAN

0 500 1000 1500 mm SCALE 1:50

NOTES:

1. REPLACE COLUMN BLOCK WITH CONCRETE AS PER DETAIL 3 ON SHEET NO. S10.

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
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1	04/19/13	ISSUED FOR 50% REVIEW	DR	CG

Revision / Revision	
A	Detail number Sheet number
B	A Numero de detail B Numero de la feuille

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Scellé de l'ingénieur

Canada

Parks Canada / Parcs Canada

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PROFESSIONAL ENGINEER
INGÉNIEUR GÉNÉRALISTE

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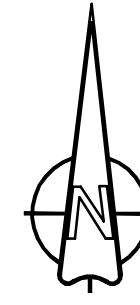
**ELK ISLAND NATIONAL PARK
PICNIC SHELTER
REMEDATION**

Drawing title/Titre du dessin

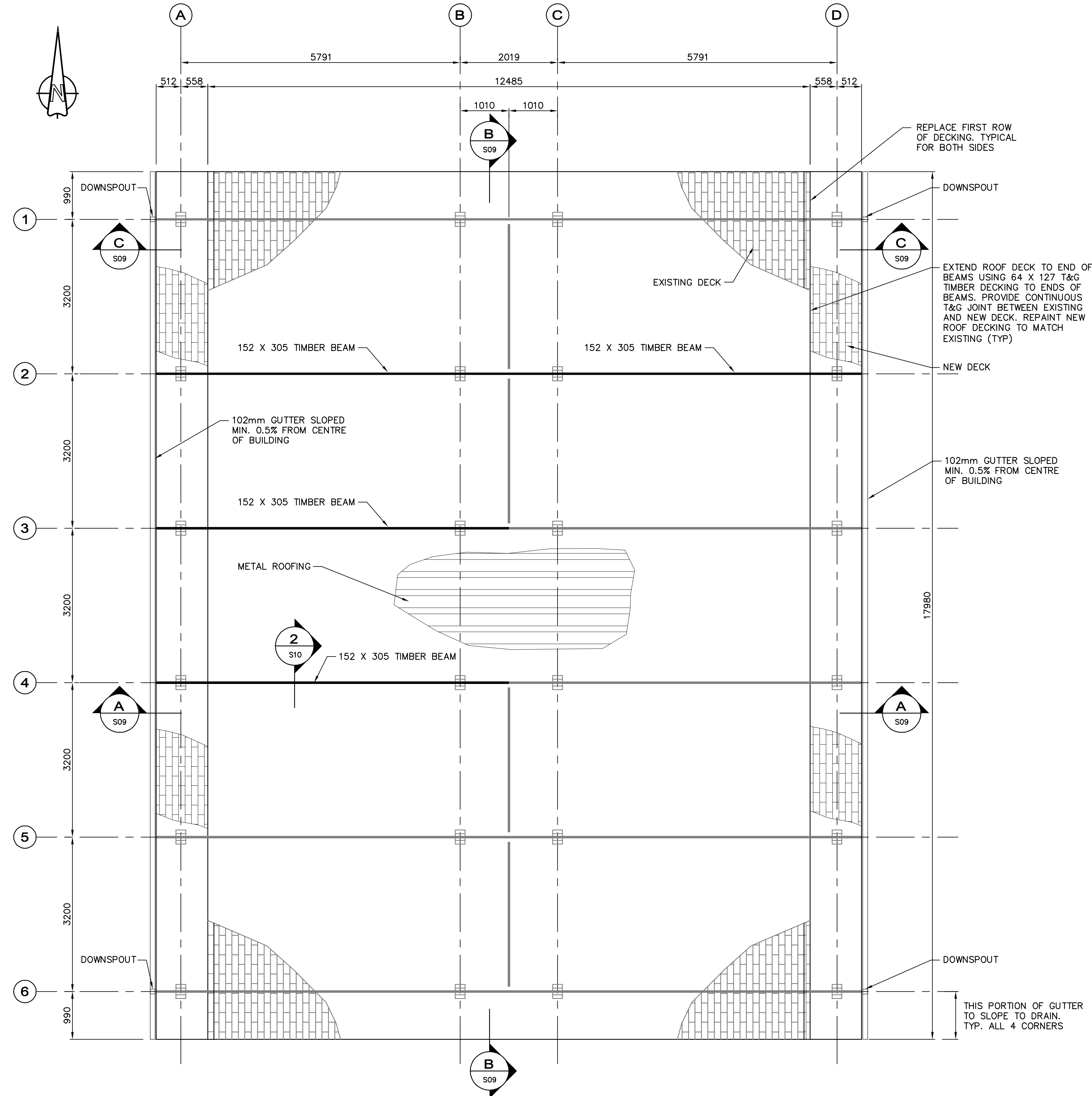
**GREY GOOSE
FLOOR PLAN**

Surveyed by/Arpenté par DR	Drawn by/Dessiné par CG	Date OCTOBER 2012
Designed by/Concept par SF	Reviewed by/Revisé par CG	Scale/Echelle AS NOTED
Client Acceptance/Acceptation du client		Approved by/Approuvé par

Project No./N° du projet 5P426-13-0009	Asset No./N° du bien	Sheet No./N° de la feuille S07
Drawing Set No./N° de série du dessin		7 OF 10



NOTE: NEW TIMBER BEAMS MAY BE D.FIR-L SELECT STRUCTURAL GRADE



ROOF FRAMING PLAN

SCALE 1:50
0 500 1000 1500 mm

3	06/28/13	ISSUED FOR TENDER	RP	CG
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1	04/19/13	ISSUED FOR 50% REVIEW	DR	CG
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

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Scellé de l'ingénieur

Canada

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

PROFESSIONAL ENGINEER
INGÉNIEUR GÉNÉRALISTE

PERMIT TO PRACTICE
AECOM CANADA LTD.

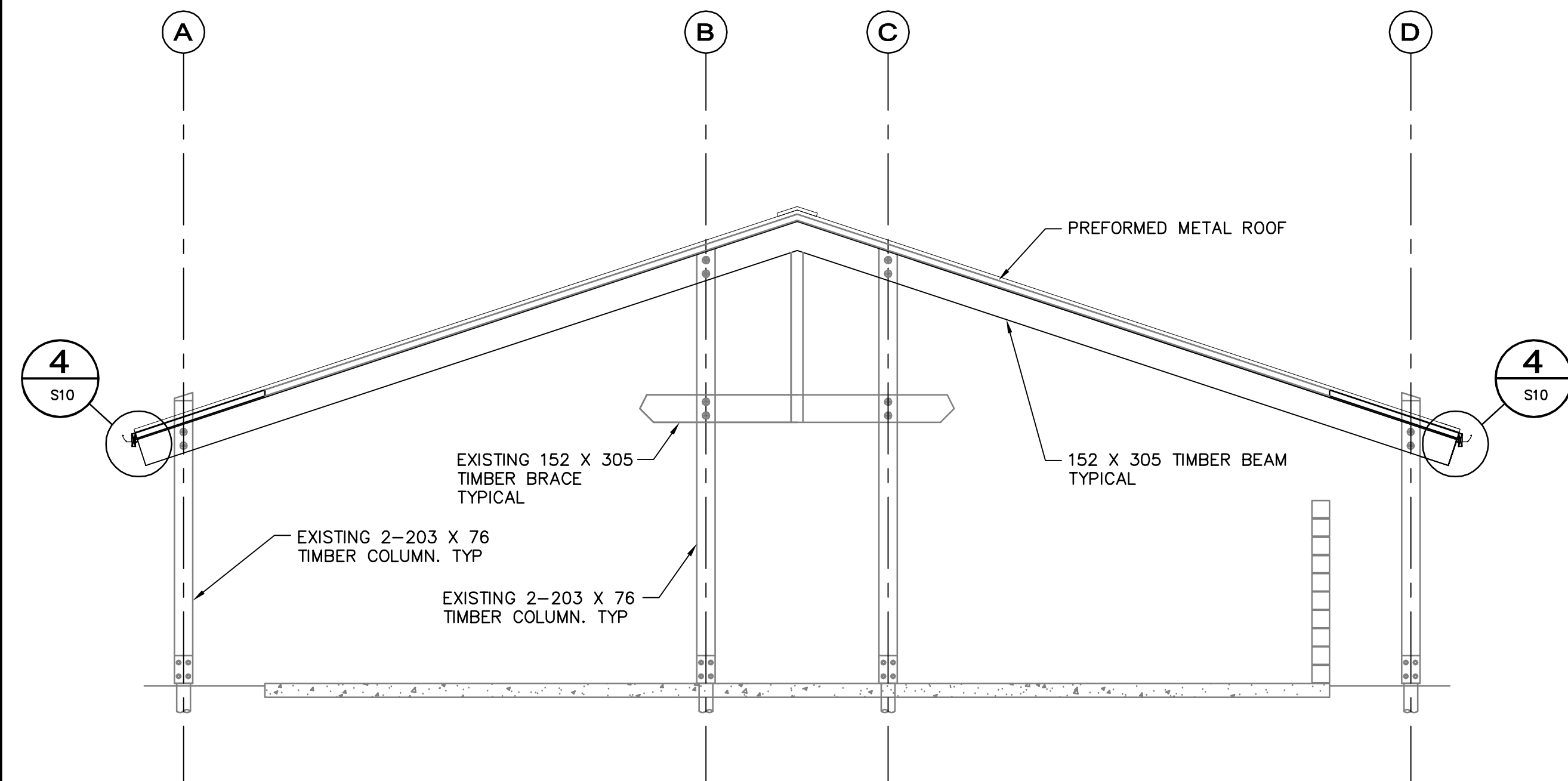
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**ELK ISLAND NATIONAL PARK
PICNIC SHELTER
REMEDATION**

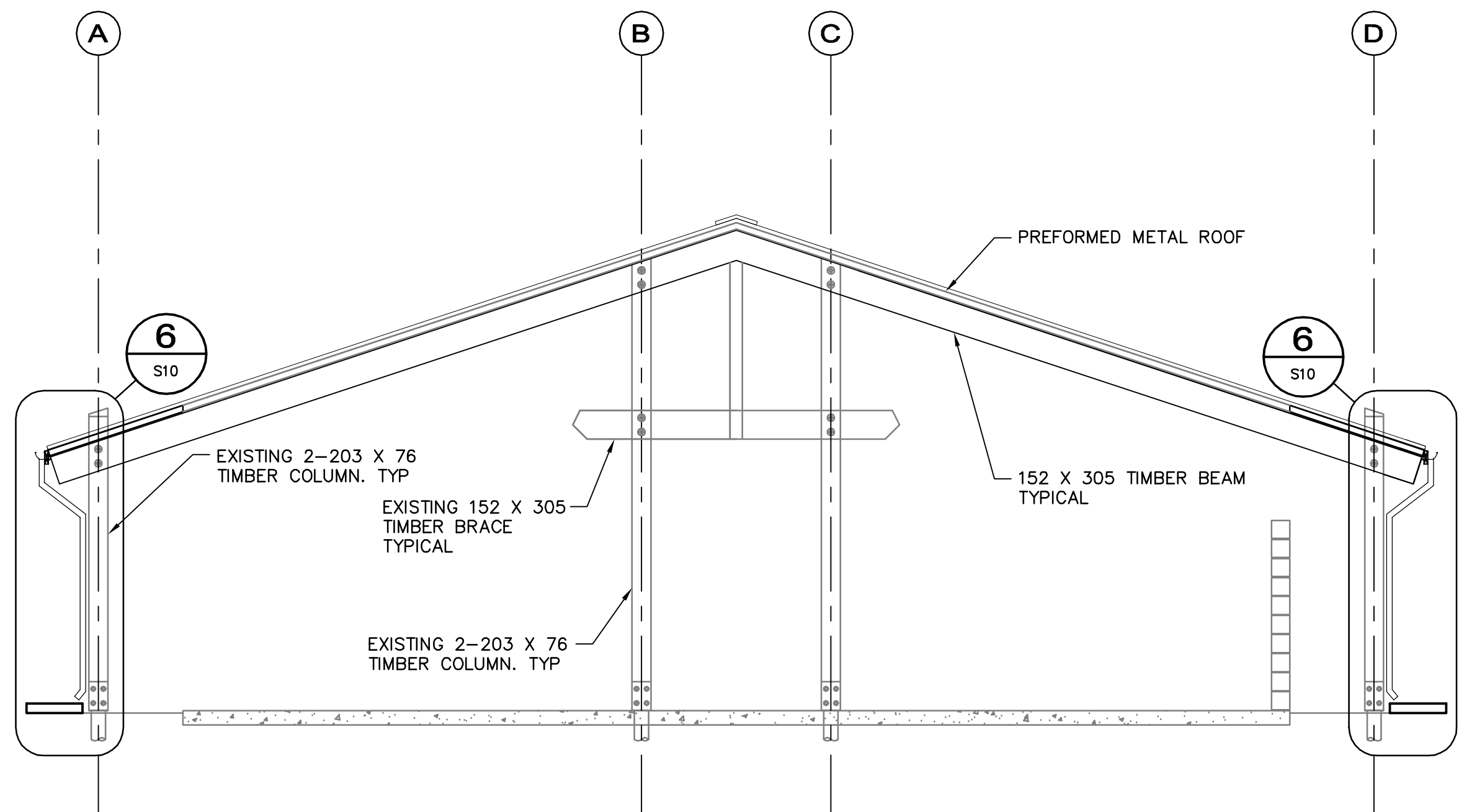
Drawing title/Titre du dessin
**GREY GOOSE
ROOF FRAMING PLAN**

Surveyed by/Arpenté par DR	Drawn by/Dessiné par CG	Date OCTOBER 2012
Designed by/Concept par SF	Reviewed by/Revisé par CG	Scale/Echelle AS NOTED
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date

Project No./N° du projet 5P428-13-0009	Asset No./N° du bien	Sheet No./N° de la feuille S08
Drawing Set No./N° de série du dessin		8 OF 10

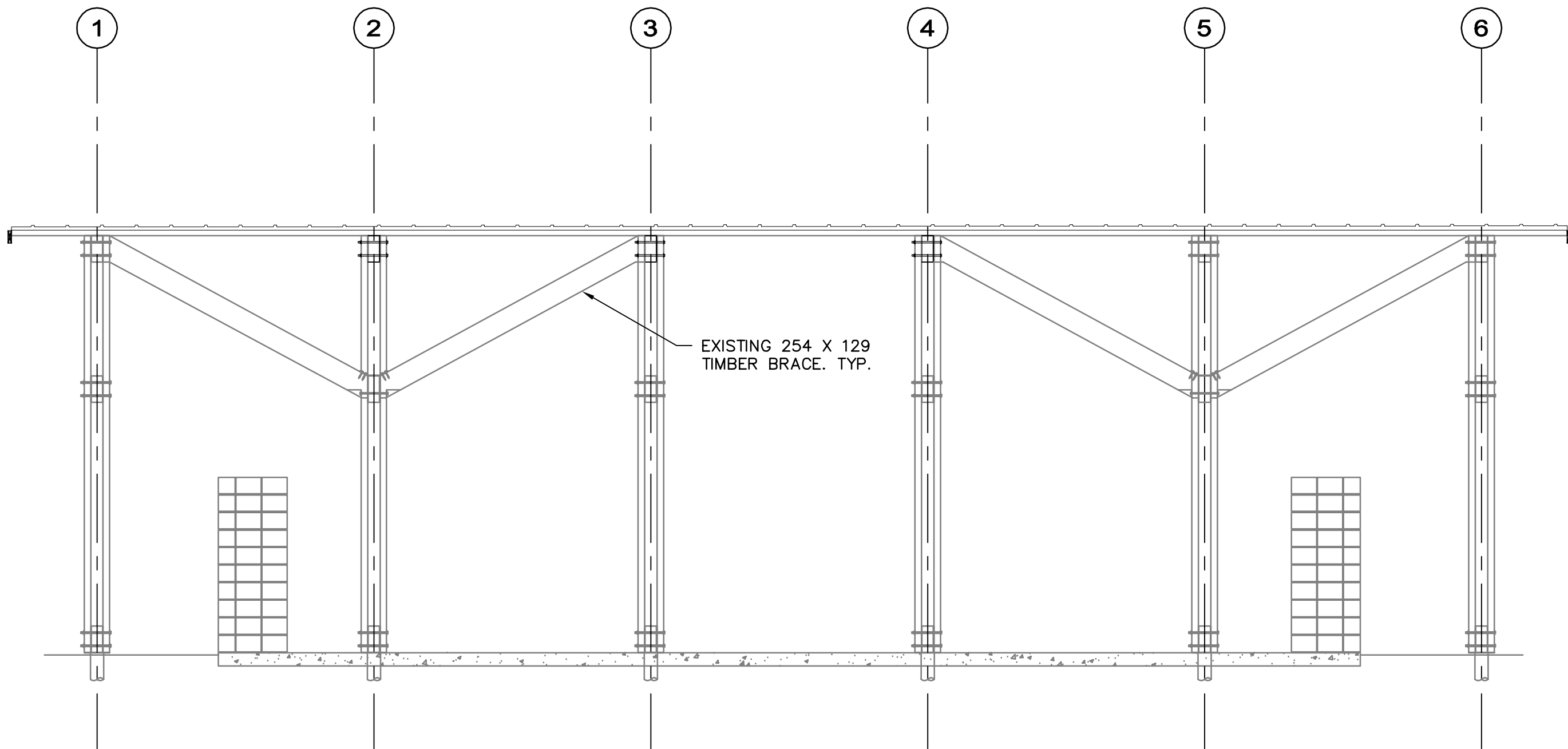


SECTION A
SCALE 1:50
S06



SECTION C
SCALE 1:50
S08

NOTE: PAINT ALL EXISTING AND NEW TIMBER (COLUMNS, BEAMS, AND UNDERSIDE OF ROOF DECK)



SECTION B
SCALE 1:50
S06

3	06/28/13	ISSUED FOR TENDER	RP	CG
2	05/09/13	ISSUED FOR 99% REVIEW	DR	CG
A	08/28/13	ISSUED FOR SENDREVIEW	BR	CG
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision	
A B	Detail number Sheet number
A Numero de detail B Numero de la feuille	
Linear dimensions in millimetres	
Dimensions linéaires en millimètres	

Consultant's Name
Nom de l'expert-conseil

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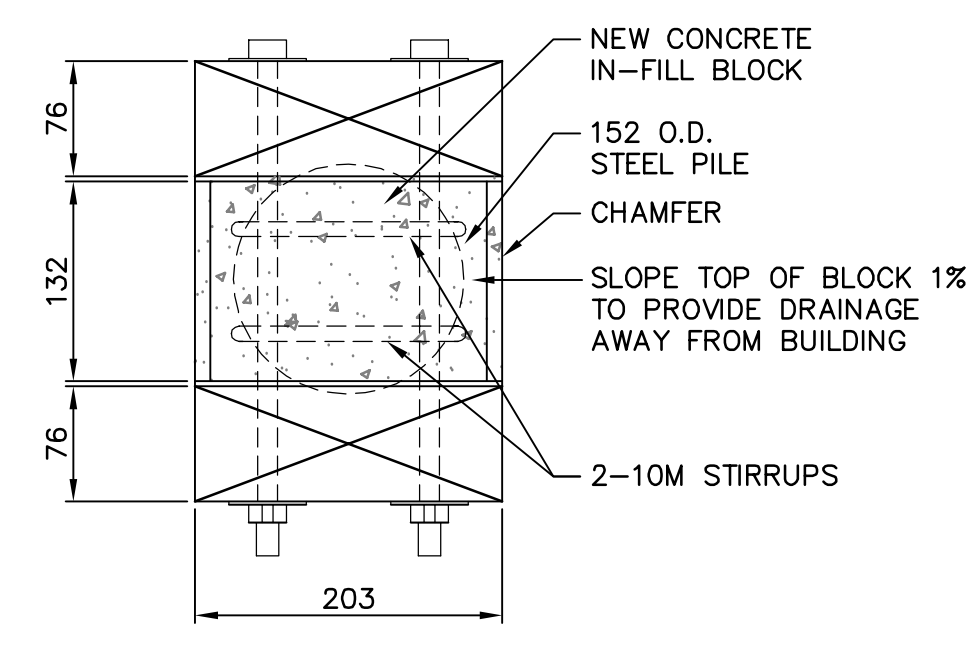
Signature: *[Signature]*
Date: June 20, 2013
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta

Project title/Titre du projet
**ELK ISLAND NATIONAL PARK
PICNIC SHELTER
REMEDATION**

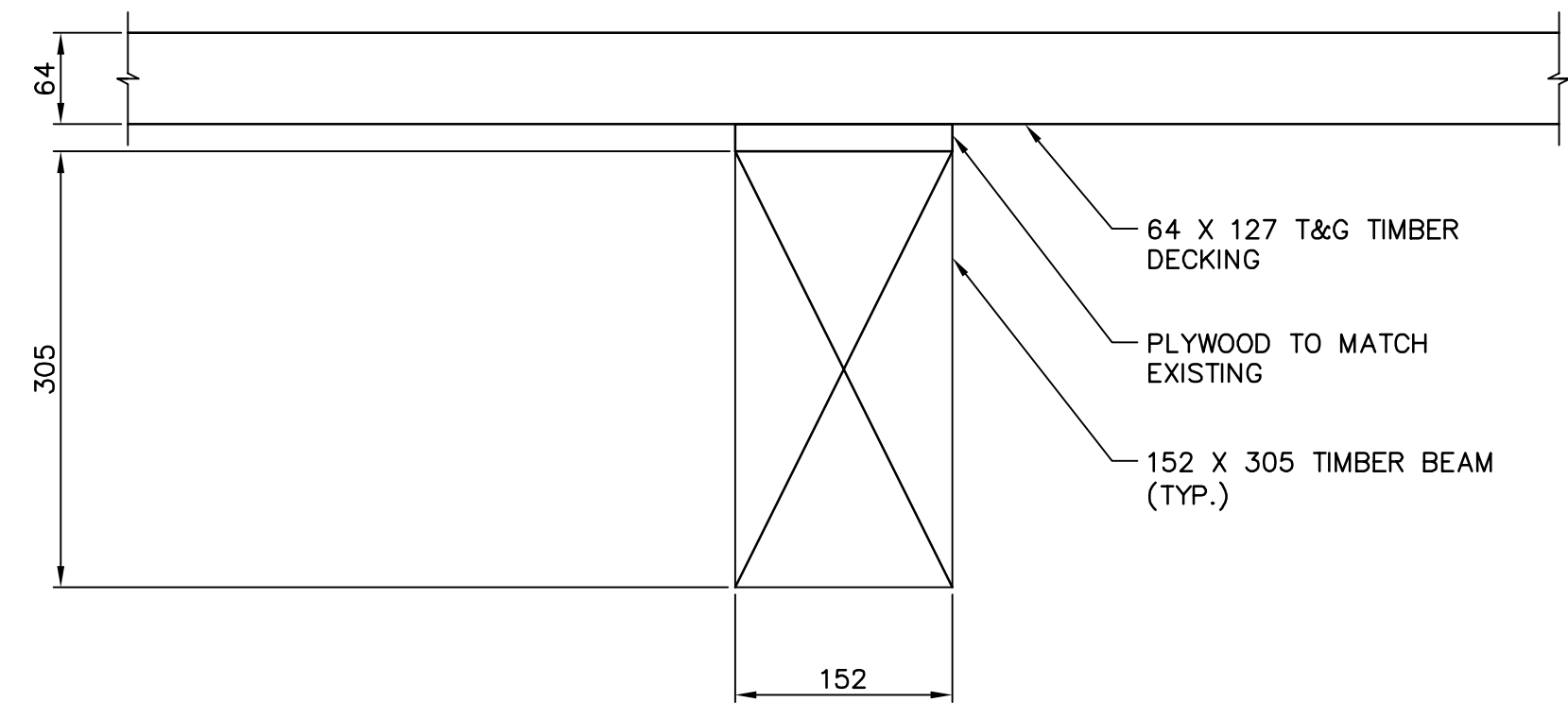
Drawing title/Titre du dessin
**GREY GOOSE
SECTION & DETAILS**

Surveyed by/Arpenté par DR	Drawn by/Dessiné par CG	Date OCTOBER 2012
Designed by/Concept par SF	Reviewed by/Revisé par CG	Scale/Echelle AS NOTED
Client Acceptance/Acceptation du client	Approved by/Approuvé par	Date

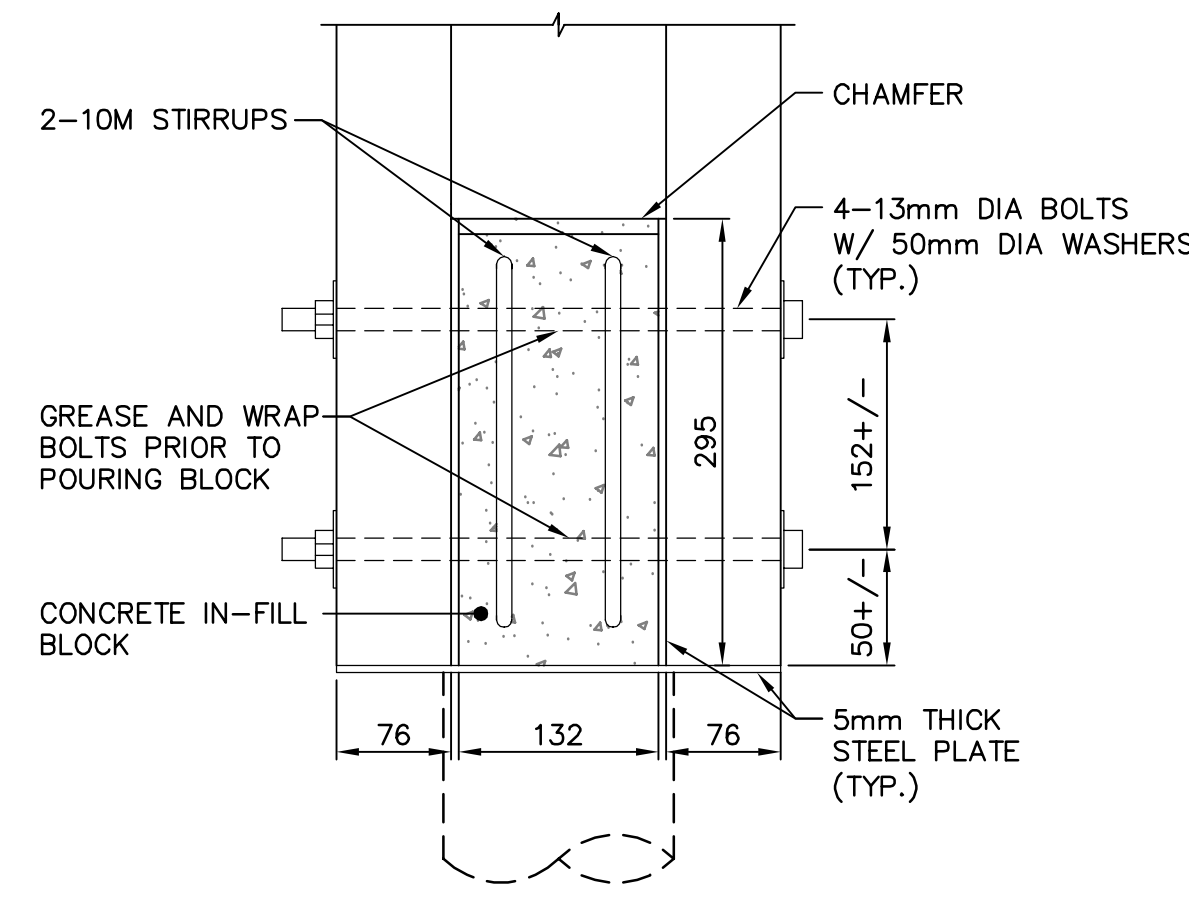
Project No./N° du projet 5P428-13-0009	Asset No./N° du bien	Sheet No./N° de la feuille S09
Drawing Set No./N° de série du dessin		9 OF 10



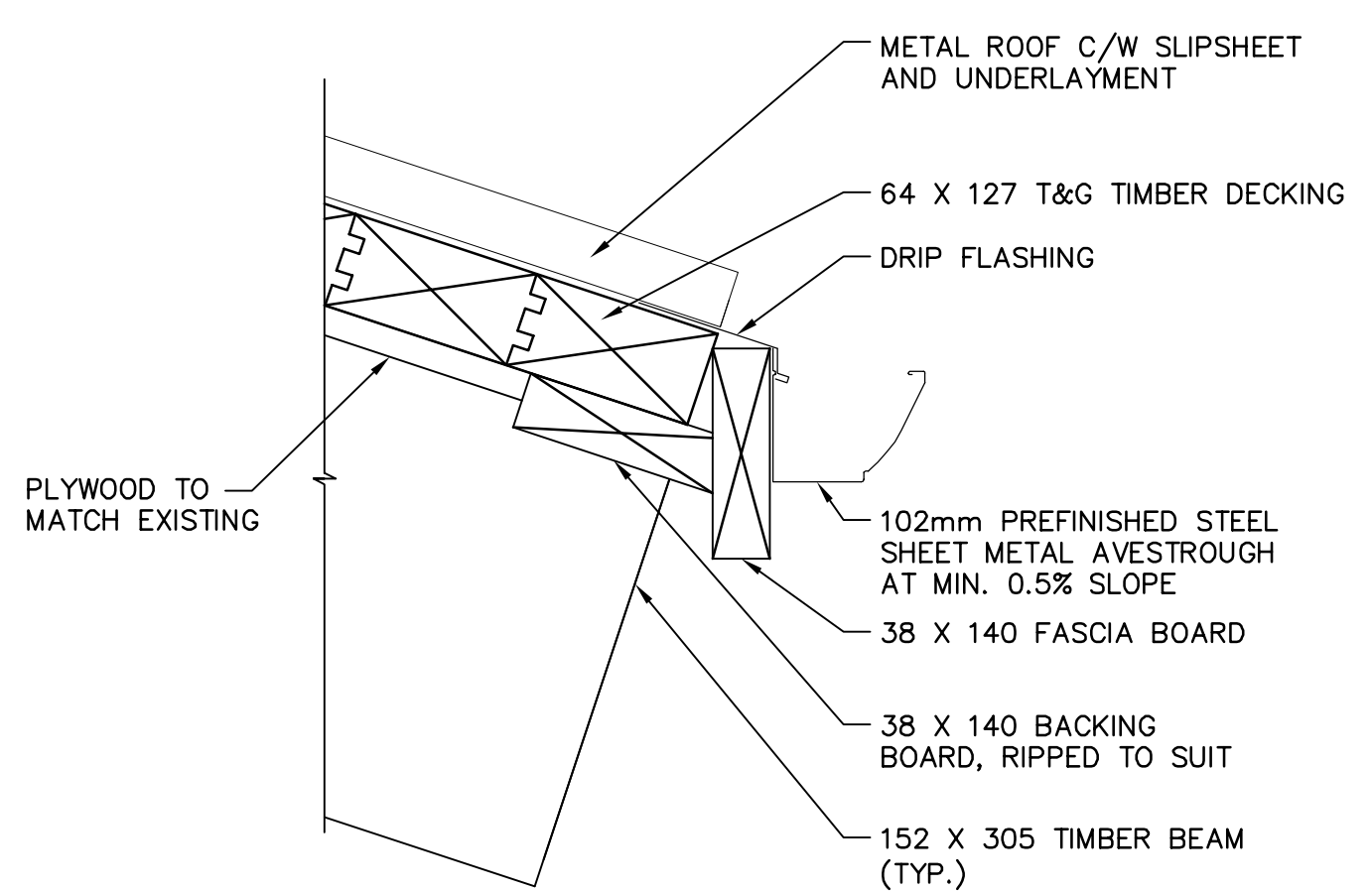
TYPICAL COLUMN 1
SCALE 1:5



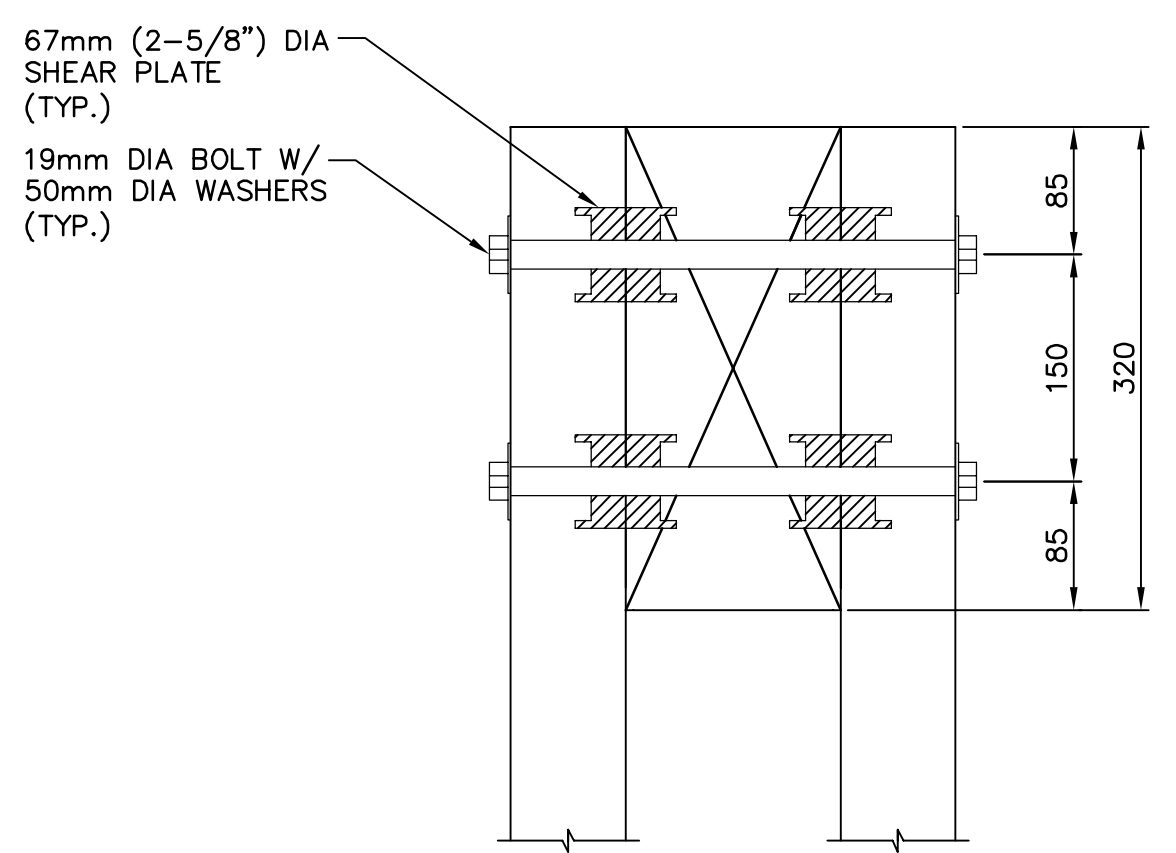
TYPICAL BEAM 2
SCALE 1:5



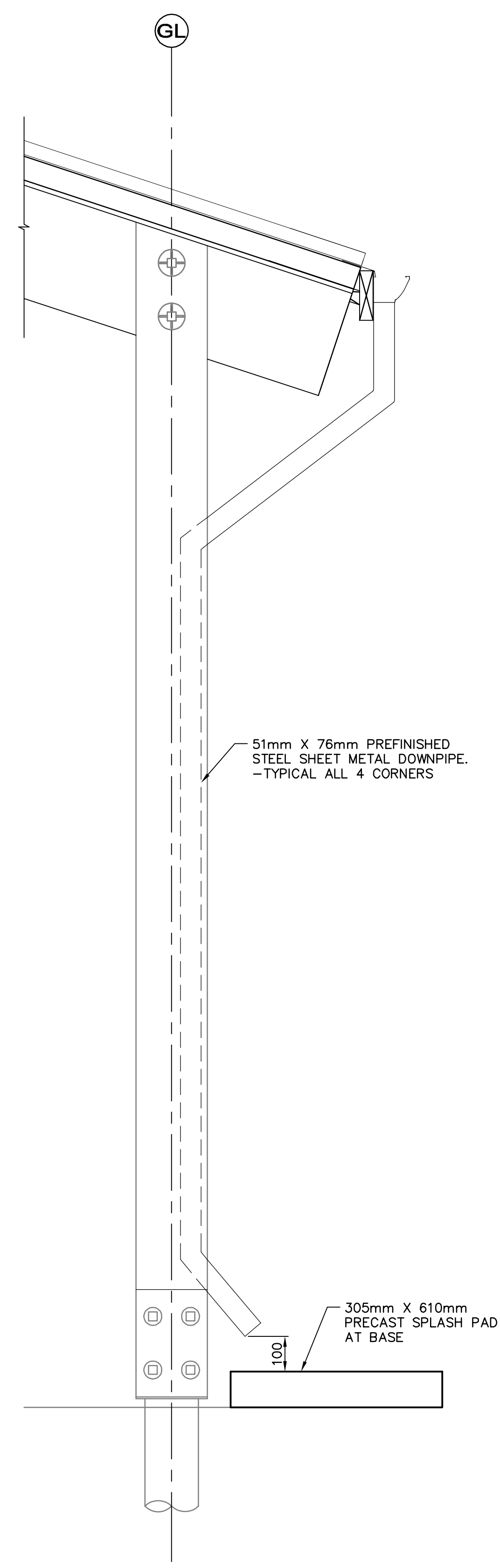
DETAIL 3
SCALE 1:5



DETAIL 4
SCALE 1:5



TYPICAL BEAM TO COLUMN CONNECTION 5
SCALE 1:5



DETAIL 6
SCALE 1:10

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
3	06/28/13	ISSUED FOR TENDER	RP	CG
2	05/09/13	ISSUED FOR 99% REVIEW	DR	CG
1	04/19/13	ISSUED FOR 50% REVIEW	DR	CG

A	Detail number	A Numero de detail
B	Sheet number	B Numero de la feuille

Consultant's Name
Nom de l'expert-conseil

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PROFESSIONAL ENGINEER
INGÉNIEUR GÉOLOGUE

PERMIT TO PRACTICE
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Signature: *[Signature]*
Date: June 20, 2013
PERMIT NUMBER: P10450
The Association of Professional Engineers and Geoscientists of Alberta

Project title/Titre du projet

**ELK ISLAND NATIONAL PARK
PICNIC SHELTER
REMEDATION**

Drawing title/Titre du dessin

DETAILS

Surveyed by/Arpenté par DR	Drawn by/Dessiné par DR	Date FEBRUARY 2013
Designed by/Concept par SF	Reviewed by/Revisé par CG	Scale/Echelle AS NOTED
Client Acceptance/Acceptation du client	Approved by/Approuvé par	Date

Project No./N° du projet SP428-13-0009	Asset No./N° du bien	Sheet No./N° de la feuille S10
Drawing Set No./N° de série du dessin		10 OF 10