



Parks Canada

Strategic Asset
Management,
Western and Northern
Region

Parcs Canada

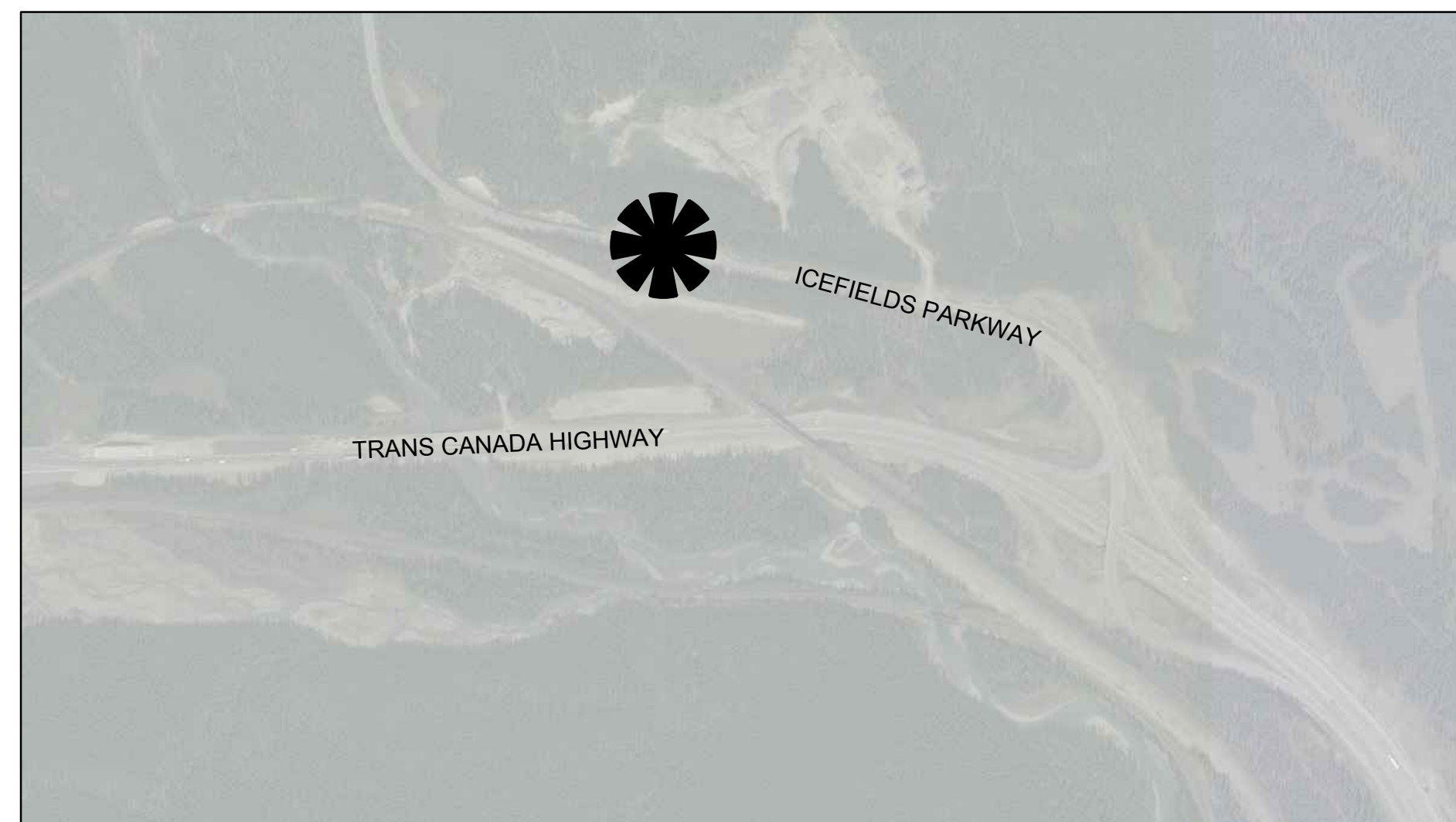
Gestion Stratégique
des Biens,
Région de l'Ouest et
du Nord

Canada

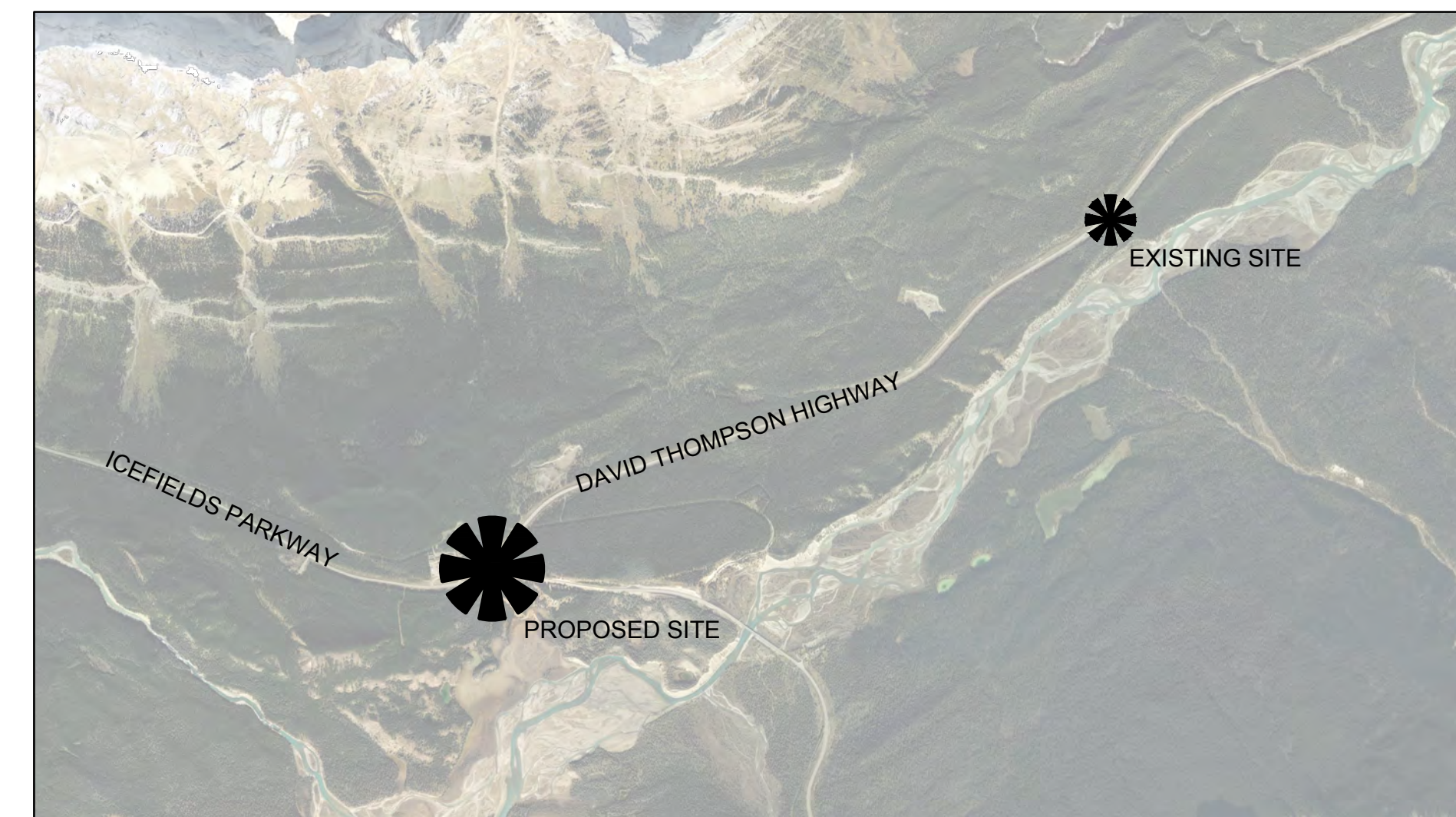
ICEFIELDS PARKWAY GATE REDEVELOPMENT BANFF NATIONAL PARK, ALBERTA

CONSULTANT PROJECT No. FII 907/908

DATE: MAY 03, 2017



NIBLOCK SITE
SCALE N.T.S.



DAVID THOMPSON HIGHWAY SITE
SCALE N.T.S.

ISSUE FOR TENDER: MAY 03, 2017



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NOTES

5	2017/05/03	ISSUE FOR TENDER	JN	RM
4	2017/03/24	90% DRAWING REISSUE CLIENT REVIEW	JN	RM
3	2017/02/15	90% DRAWING SUBMISSION CLIENT REVIEW	JN	RM
2	2016/12/07	75% DRAWING SUBMISSION CLIENT REVIEW	TC	RM
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<div><div>A</div><div>B</div></div>	<div>Detail number</div> <div>Sheet number</div>	<div>A Numéro de détail</div> <div>B Numéro de la feuille</div>
<div>Linear dimensions</div> <div>in millimetres</div>		<div>Dimensions linéaires</div> <div>en millimètres</div>
<div>Consultant's Name</div> <div>Nom de l'expert-conseil</div> <div><div>220, 48 Quarry Park Blvd SE CALGARY, ALBERTA T2C 5P2 PHONE: 403-269-7440 FAX: 403-269-7422 WWW.WSPGROUP.COM</div></div>		<div>Eng. Stamp</div> <div>Sceau de l'ingénieur</div>

	<div>Parks Canada</div> <div>Strategic Asset Management, Western and Northern Region</div>	<div>Parcs Canada</div> <div>Gestion Stratégique des Biens, Région de l'Ouest et du Nord</div>
		

Project title/Titre du projet			
ICEFIELDS PARKWAY GATE			
BANFF NATIONAL PARK, ALBERTA			
Drawing title/Titre du dessin			
GENERAL INFORMATION DRAWING INDE			
Surveyed by/Arpenté par	Drawn by/Dessiné par	Date	
TC	TC	2017/05/03	
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle	
TC	RM	AS NOTED	
Client Acceptance/Acceptation du client		Approved by/Approuvé par	
Date		Date	
Project No./Nº du projet	Asset No./Nº du bien	Sheet No./Nº de la feuille	
FII 907/908		01 of 04	
Drawing Set No./Nº de série du dessin			
GI-01			

LEGEND

ROAD CONSTRUCTION

EXISTING	DESCRIPTION	PROPOSED
CONTROL LINE AND STATIONING		
		67+500
ALIGNMENT TIE POINTS & STATIONING		
		T.S. 55+325.101
DIRECTION OF TRAVEL		
EDGE OF PAVEMENT		
LANE LINE		
SHOULDER LINE		
SUBGRADE ELEVATION		
CONCRETE BARRIER		
GUARD RAIL		
DIRECTION OF FLOW		
TOE OF SLOPE		
TOP OF SLOPE		
ASPHALT REMOVAL		
MILL/FILL AND OVERLAY		
GRUBBING		
CLEARING		
GBC REMOVAL		
SURVEY GRID (NAD 83)		
TREE LINE		
CULVERT		
DITCH		
DAYLIGHT LINE		
EDGE OF GRAVEL		
CONCRETE BARRIER		
TRANSVERSE RUMBLE STRIPS		
CENTRELINE RUMBLE STRIPS		
SPOT ELEVATION		
PAVEMENT GRADE		
GRADING SLOPE		
FENCING		
GATE		
SIGNAGE		
DELINEATOR		
GRADING/PAVEMENT ELEVATION		
PAVEMENT MARKING – LANE LINE		
PAVEMENT MARKING – CONTINUITY LINE		
CPR ROW		
WILDERNESS ZONE BOUNDARY		

ALIGNMENT ABBREVIATIONS

BP – ALIGNMENT BEGINNING
BVC – BEGINNING OF VERTICAL CURVE
CC – CURVE CENTRE
CS – CURVE TO SPIRAL
CT – CURVE TO TANGENT
ELEV – ELEVATION
EP – ALIGNMENT END POINT
EVC – END OF VERTICAL CURVE
K – CURVE COEFFICIENT
LVC – LENGTH OF VERTICAL CURVE
PC – POINT OF CURVATURE
PCC – POINT OF COMPOUND CURVATURE
PI – POINT OF INTERSECTION
POC – POINT ON CURVE
PT – POINT OF TANGENCY
PVI – POINT OF VERTICAL INTERSECTION
SC – SPIRAL TO CURVE
ST – SPIRAL TO TANGENT
STA – STATION
TC – TANGENT TO CURVE
TS – TANGENT TO SPIRAL
CL – CENTER LINE

MISCELLANEOUS ABBREVIATIONS

A – SPIRAL PARAMETER, ANGLE
A/G – ABOVE GROUND
BH – BORE HOLE
BOC – BACK OF CURB
CB – CATCH BASIN
C&G – CURB AND GUTTER
C.I.P.– CAST IN PLACE CONCRETE
CI – CULVERT INLET
CL – CENTER LINE
CO – CULVERT OUTLET
CP – CONTROL POINT
CPR – CANADIAN PACIFIC RAILWAY
CSP – CORRUGATED STEEL PIPE
DL – DILINEATOR
DWG – DRAWING
DTH – DAVID THOMPSON HIGHWAY
e – SUPERELEVATION
E – EASTING
EB – EASTBOUND
EOP – EDGE OF PAVEMENT
EPS – EDGE OF PROPOSED SHOULDER
EX – EXISTING
FOC – FACE OF CURB
EOC – EDGE OF CONCRETE
HOR – HORIZONTAL
INV – INVERT
IFC – ISSUED FOR CONSTRUCTION
LT – LEFT
MH – MANHOLE
N – NORTHING
NTS – NOT TO SCALE
RT – RIGHT
PCA – PARKS CANADA AGENCY
R – RADIUS
ROW – RIGHT OF WAY
SHLD – SHOULDER
Δ – ANGLE
U/G – UNDER GROUND
VER – VERTICAL
WB – WESTBOUND
RFP – REQUEST FOR PROPOSAL
MUP – MULTI USE PATH
GBK – GRADE BREAK
ETW – EDGE TRAVELLED WAY
EOG – EDGE OF GRAVEL
BOD – BOTTOM OF DITCH
EOC – EDGE OF CONCRETE

NOTES

D	2017/05/03	ISSUED FOR TENDER	KL	WT
C	2017/03/22	REVISED 90% CLIENT REVIEW	KL	WT
B	2017/02/15	90% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
A	2016/12/07	75% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
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Revision / Revision

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<div>Canada</div>	

Project title/Titre du projet
ICEFIELDS PARKWAY GATE
NIBLOCK & DAVID THOMPSON HIGHWAY GATE
BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin
TRANSPORTATION SYMBOL LEGEND

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
	AM	2017/05/03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
KL	WT	
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet	Asset No./Nº du bien	Sheet No./ Nºde la feuille
FII 907/908		02 of 04
Drawing Set No./Nº de série du dessin		
GI-02		

SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
LIGHTING		COMMUNICATION		SINGLE LINE DIAGRAM SYMBOLS		NOTES, LINES, AND ABBREVIATIONS	
	2'x4' RECESSED MOUNTED FLUORESCENT LUMINAIRE		TELEPHONE OUTLET		FUSED DISCONNECT		DRAWING REVISION KEYNOTE
	1'x4' RECESSED MOUNTED FLUORESCENT LUMINAIRE		DATA OUTLET		LOAD BREAK SWITCH		DRAWING DESCRIPTION/INSTRUCTION KEYNOTE
	2'x2' RECESSED MOUNTED FLUORESCENT LUMINAIRE		COMMUNICATION OUTLET		AUTOMATIC TRANSFER SWITCH		DRAWING EQUIPMENT/DEVICE KEYNOTE
	2'x4' SURFACE MOUNTED FLUORESCENT LUMINAIRE		TV OUTLET		AUTOMATIC TRANSFER SWITCH (DETAILED)		DRAWING KEYNOTE
	1'x4' SURFACE MOUNTED FLUORESCENT LUMINAIRE		AUDIO VISUAL OUTLET		POWER TRANSFORMER		LINE TYPE AND WEIGHT INDICATE CONSTRUCTION
	INDICATES NIGHT LIGHT (NON-SWITCHED LUMINAIRE)		TELEPHONE OUTLET – FLOOR MOUNTED		ISOLATION TRANSFORMER		LINE TYPE AND WEIGHT INDICATE EXISTING
	2'x2' SURFACE MOUNTED FLUORESCENT LUMINAIRE		DATA OUTLET – FLOOR MOUNTED		INSTRUMENT VOLTAGE TRANSFORMER		LINE TYPE AND WEIGHT INDICATE DEMOLITION
	FLUORESCENT STRIP LUMINAIRE		COMMUNICATION OUTLET – FLOOR MOUNTED		INSTRUMENT CURRENT TRANSFORMER	IG	ISOLATED GROUND
	WALL MOUNTED FLUORESCENT LUMINAIRE		TV OUTLET – FLOOR MOUNTED		3 WINDING TRANSFORMER	GFI	GROUND FAULT INTERRUPTING
	TRACK LIGHT		AUDIO VISUAL OUTLET – FLOOR MOUNTED			BO	BLANK OFF EXISTING DEVICE
	VALENCE LIGHT		TELEPHONE OUTLET – CEILING MOUNTED			HK	HOUSEKEEPING RECEPTACLE
	RECESSED MOUNTED POT LUMINAIRE		DATA OUTLET – CEILING MOUNTED		NORMAL POWER PANELBOARD	WP	WEATHER PROOF
	SURFACE/SUSPENDED LUMINAIRE		COMMUNICATION OUTLET – CEILING MOUNTED		EMERGENY POWER PANELBOARD	TL	TWISTLOCK
	WALL MOUNTED LUMINAIRE		TV OUTLET – CEILING MOUNTED			SH	SAFETY SHUTTER
	EXIT LIGHT – CEILING MOUNTED		AUDIO VISUAL OUTLET – CEILING MOUNTED			P	PILOT LIGHT
	EXIT LIGHT – WALL MOUNTED		INTERCOM			K	KEYED
	EMERGENCY LIGHT BATTERY PACK C/W DUAL HEAD		EMERGENCY INTERCOM			SS	SURGE SUPPRESSION
	EMERGENCY LIGHT SINGLE REMOTE HEAD		EMERGENCY INTERCOM WITH STROBE			ER	EXISTING TO REMAIN
	EMERGENCY LIGHT DUAL REMOTE HEAD		VIDEO INTERCOM			R	TO BE REMOVED
	POLE MOUNTED SITE LUMINIARE		INTERCOM WITH PROGRAM			RL	EXISTING TO BE RELOCATED
	POLE TOP MOUNTED SITE LUMINAIRE		EMERGENCY PHONE			F	FUTURE DEVICE
	LUMINAIRE TYPE DESIGNATOR		EMERGENCY PHONE WITH STROBE			•	DEVICE MOUNTED ABOVE COUNTER OR MILLWORK
SWITCHES		MECHANICAL					
	LINE VOLTAGE SWITCH		MOTOR				
	LINE VOLTAGE 3 WAY SWITCH		UNFUSED DISCONNECT				
	LINE VOLTAGE 4 WAY SWITCH		FUSED DISCONNECT				
	LINE VOLTAGE SWITCH WITH PILOT LIGHT		VARIABLE FREQUENCY DRIVE				
	LINE VOLTAGE KEY OPERATED SWITCH		MAGNETIC MOTOR STARTER				
	LINE VOLTAGE 2 POLE SWITCH		COMBO MAGNETIC MOTOR STARTER DISCONNECT				
	PUSHBUTTON		MANUAL MOTOR STARTER C/W PILOT LIGHT				
	DOOR ASSIST PUSHBUTTON		CEILING FAN				
	EMERGENCY STOP PUSHBUTTON		THERMOSTAT				
	UP/DN/STOP PUSHBUTTON		HUMIDISTAT				
	FOOT SWITCH		PRESSURE SWITCH				
	DIMMER SWITCH		LIMIT SWITCH				
	SWITCH W/ INTEGRAL OCCUPANCY SENSOR		AQUASTAT				
	SWITCH W/ INTEGRAL DAYLIGHT SENSOR		MEDIGAS SENSOR				
	SWITCH W/ INTEGRAL OCCUPANCY/DAYLIGHT SENSOR		ELECTRIC REHEAT COIL				
	OCCUPANCY SENSOR		METER				
	DAYLIGHT SENSOR		LIGHTNING ROD				
	OCCUPANCY/DAYLIGHT SENSOR		LIGHTNING PROTECTION AIR TERMINAL				
	LOW VOLTAGE SWITCH (# = NUMBER OF SWITCHES)		ELECTRICALLY CONTROLLED SOLENOID				
	PHOTOCELL		EQUIPMENT DESIGNATION				
	2 LINE VOLTAGE SWITCHES WITH SWITCH TYPE						
	3 LINE VOLTAGE SWITCHES WITH SWITCH TYPE						
POWER		PANELBOARDS AND DISTRIBUTION					
	DUPLEX RECEPTACLE		PANELBOARD – SURFACE MOUNTED				
	DUPLEX RECEPTACLE ABOVE COUNTER		PANELBOARD – RECESSED MOUNTED				
	QUAD RECEPTACLE		TELEPHONE PANEL – SURFACE MOUNTED				
	QUAD RECEPTACLE ABOVE COUNTER		TELEPHONE PANEL – RECESSED MOUNTED				
	SPECIAL RECEPTACLE		LOW VOLTAGE RELAY CABINET – SURFACE MOUNTED				
	DUPLEX RECEPTACLE – FLOOR MOUNTED		LOW VOLTAGE RELAY CABINET – RECESSED MOUNTED				
	QUAD RECEPTACLE – FLOOR MOUNTED		POWER TRANSFORMER				
	SPECIAL RECEPTACLE – FLOOR MOUNTED		MOTOR CONTROL CENTRE				
	DUPLEX RECEPTACLE – CEILING MOUNTED		DIGITAL METERING SYSTEM				
	QUAD RECEPTACLE – CEILING MOUNTED		PLYWOOD BACKBOARD				
	SPECIAL RECEPTACLE – CEILING MOUNTED		GROUND BUS				
	SINGLE RECEPTACLE						
	CLOCK RECEPTACLE	CONDUIT AND JUNCTION BOXES					
	5–20RA (TSLT) DUPLEX RECEPTACLE		JUNCTION BOX				
	SPLIT RECEPTACLE		JUNCTION BOX – WALL				
	EMERGENCY POWER DUPLEX RECEPTACLE		JUNCTION BOX – FLOOR				
	EMERG. POWER DUPLEX RECEPTACLE ABOVE COUNTER		CONDUIT				
	EMERGENCY POWER QUAD RECEPTACLE		UNDERGROUND CONDUIT				
	EMERG. POWER QUAD RECEPTACLE ABOVE COUNTER		CABLE TRAY				
	CORD REEL		HOME RUN				
	PACPOLE		CONDUIT STUB UP				
	MODULAR JUNCTION BOX – # INDICATES MODULES		CONDUIT STUB DOWN				
	DIRECT CONNECTION TO EQUIPMENT		BUS DUCT				
	CAR RECEPTACLE		CAPPED CONDUIT				
			WIRE IN CONDUIT				

DRAWING LIST:	
GI-04	SYMBOL LEGEND & DRAWING LIST
E-NSP-01	ELECTRICAL SITE PLAN – NIBLOCK HIGHWAY KIOSK
E-DSP-01	ELECTRICAL SITE PLAN – DAVID THOMPSON HIGHWAY KIOSK
E-LP-01	HIGHWAY KIOSK LIGHTING PLAN
E-PS-01	HIGHWAY KIOSK POWER AND SYSTEMS PLAN

NOTES

1.



PERMIT TO PRACTICE
WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional
Engineers and Geoscientists of Alberta

4	20170503	ISSUED FOR TENDER	DU	KR
3	20170322	REVISED 90% CLIENT REVIEW	DU	KR
2	20161207	ISSUED FOR 75% REVIEW	DU	KR
1	20161024	ISSUED FOR REVIEW	CM	
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	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 Sceau de l'ingénieur
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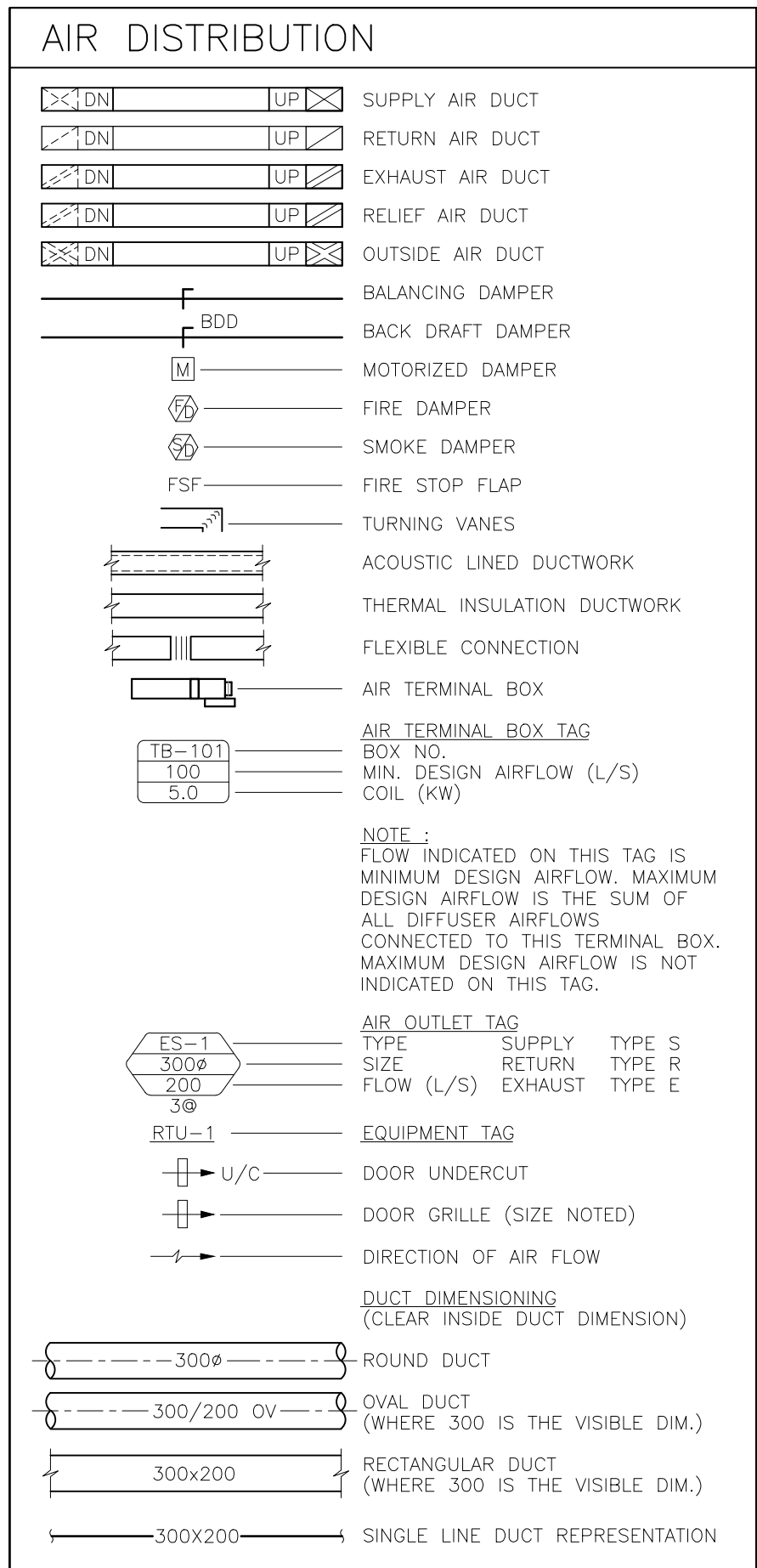
Project title/Titre du projet

ICEFIELDS PARKWAY

Drawing title/Titre du dessin

SYMBOL LEGEND &
DRAWING LIST

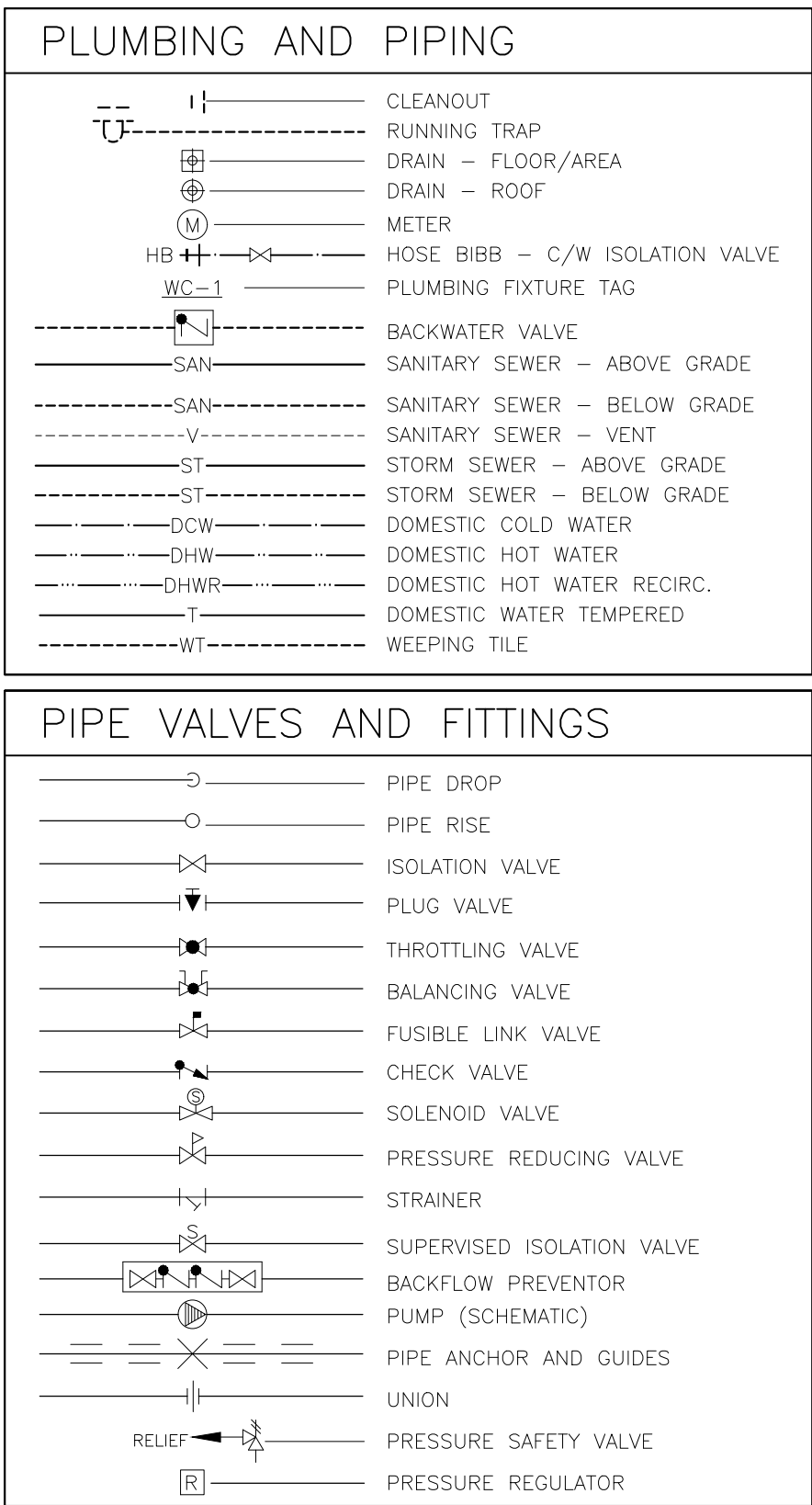
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DU	CM	2017/03/22
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DU	KR	
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FII 907/908		
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GI-04		



GENERAL NOTES:

1. REFER TO ARCHITECTURAL/CIVIL PLANS FOR TOTAL NUMBER OF SMALL AND LARGE KIOSKS PER SITE. MECHANICAL DRAWINGS OUTLINE CONSTRUCTION OF SINGLE LARGE AND SMALL KIOSKS. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR BUILDING MULTIPLE SMALL AND LARGE KIOSKS ON EACH SITE.

2. REFER TO ARCHITECTURAL/CIVIL PLANS FOR INCOMING/OUTGOING UTILITY CONNECTIONS. SITE CONDITIONS WILL DICTATE SERVICE ORIENTATION. CONNECTION ORIENTATION WILL NOT BE AS SHOWN IN MECHANICAL DRAWINGS.



MECHANICAL DRAWING LIST			
DWG NO.	DRAWING TITLE	SCALE:	PAGE
GI-05	COVER PAGE, LEGEND AND DRAWING LIST	NTS	1 OF 4
M-IM-01	INTERIOR MECHANICAL PLAN	1:50	2 OF 4
M-D-01	DETAILS	NTS	3 OF 4
M-SD-01	SCHEDULES AND DETAILS	NTS	4 OF 4



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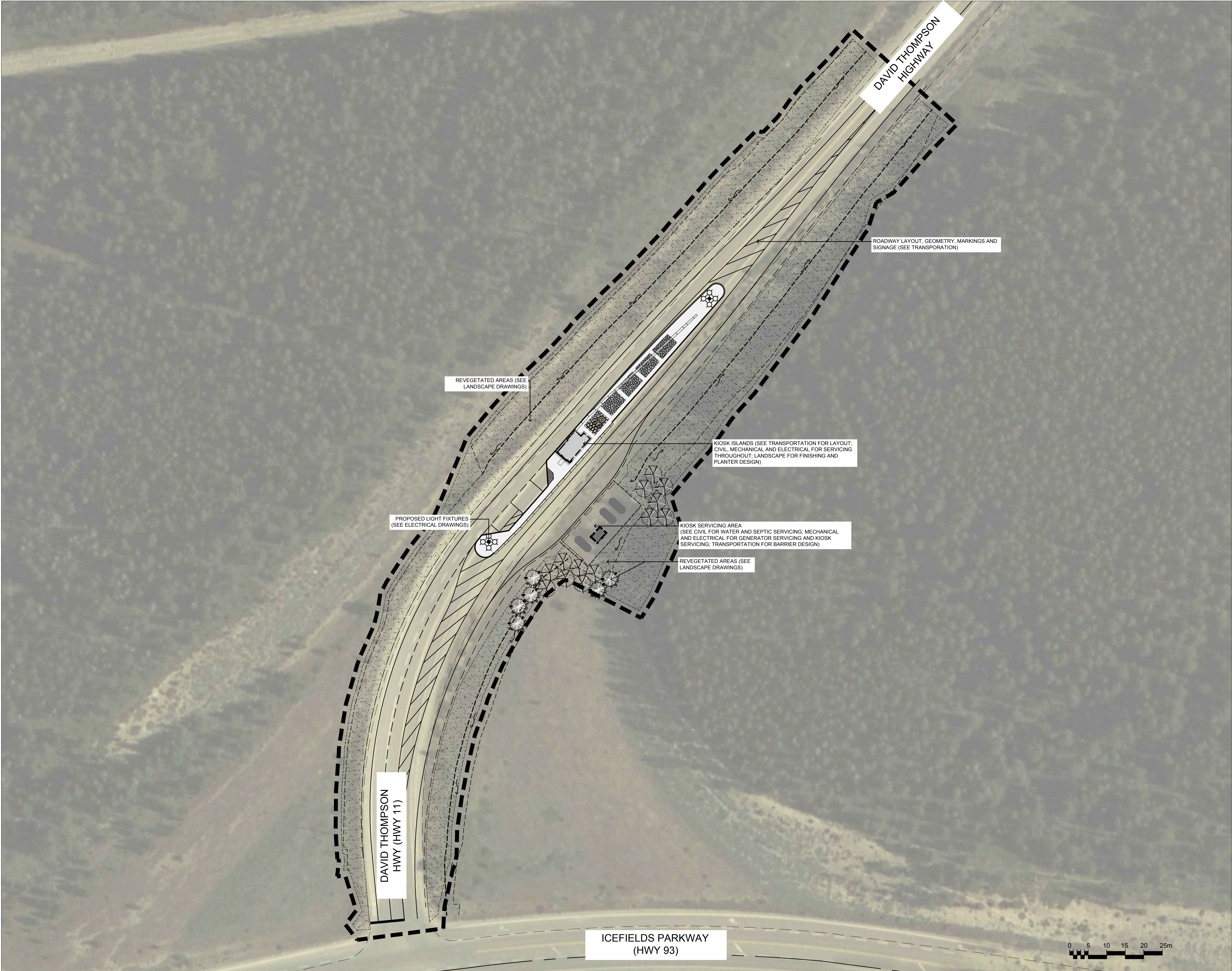
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ICEFIELD PARKWAYS

Drawing title/Titre du dessin

COVER PAGE, LEGEND & DWG LIST

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
	I.R.	2016-10-28
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Date		Date
Project No./N° du projet	Asset No./N° du bien	Sheet No./N° de la feuille
FI 907/908		
Drawing Set No./N° de série du dessin		04 of 04
GI-05		



NOTES

LEGEND

LIMIT OF WORK

5	2017/05/03	ISSUE FOR TENDER	JN	RM
4	2017/03/24	90% DRAWING REISSUE CLIENT REVIEW	JN	RM
3	2017/02/15	90% DRAWING SUBMISSION CLIENT REVIEW	JN	RM
2	2016/12/07	75% DRAWING SUBMISSION CLIENT REVIEW	TC	RM
1	2016/10/25	ISSUED FOR REVIEW	TC	RM
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				
<div><div>A</div><div>B</div></div>	Detail number Sheet number	A Numéro de détail B Numéro de la feuille		
Linear dimensions in millimètres		Dimensions linéaires en millimètres		
Consultant's Name Nom de l'expert-conseil		Eng. Stamp Sceau de l'ingénieur		
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<div><div><div></div></div><div>Parks Canada</div><div>Strategic Asset Management, Western and Northern Region</div></div>	<div><div><div></div></div><div>Parcs Canada</div><div>Gestion Stratégique des Biens, Région de l'Ouest et du Nord</div></div>	<div>Canada</div>		
Project title/Titre du projet				
ICEFIELDS PARKWAY GATE DAVID THOMPSON HIGHWAY GATE BANFF NATIONAL PARK, ALBERTA				
Drawing title/Titre du dessin				
REFERENCE PLAN DAVID THOMPSON HIGHWAY				
Surveyed by/Arpenté par	Drawn by/Dessiné par	Date		
	JN	2017/05/03		
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle		
	RM	AS NOTED		
Client Acceptance/Acceptation du client		Approved by/Approuvé par		
Date		Date		
Project No./Nº du projet		Asset No./Nº du bien	Sheet No./Nº de la feuille	
FII 907/908			01 of 02	
Drawing Set No./Nº de série du dessin				
RP-01				



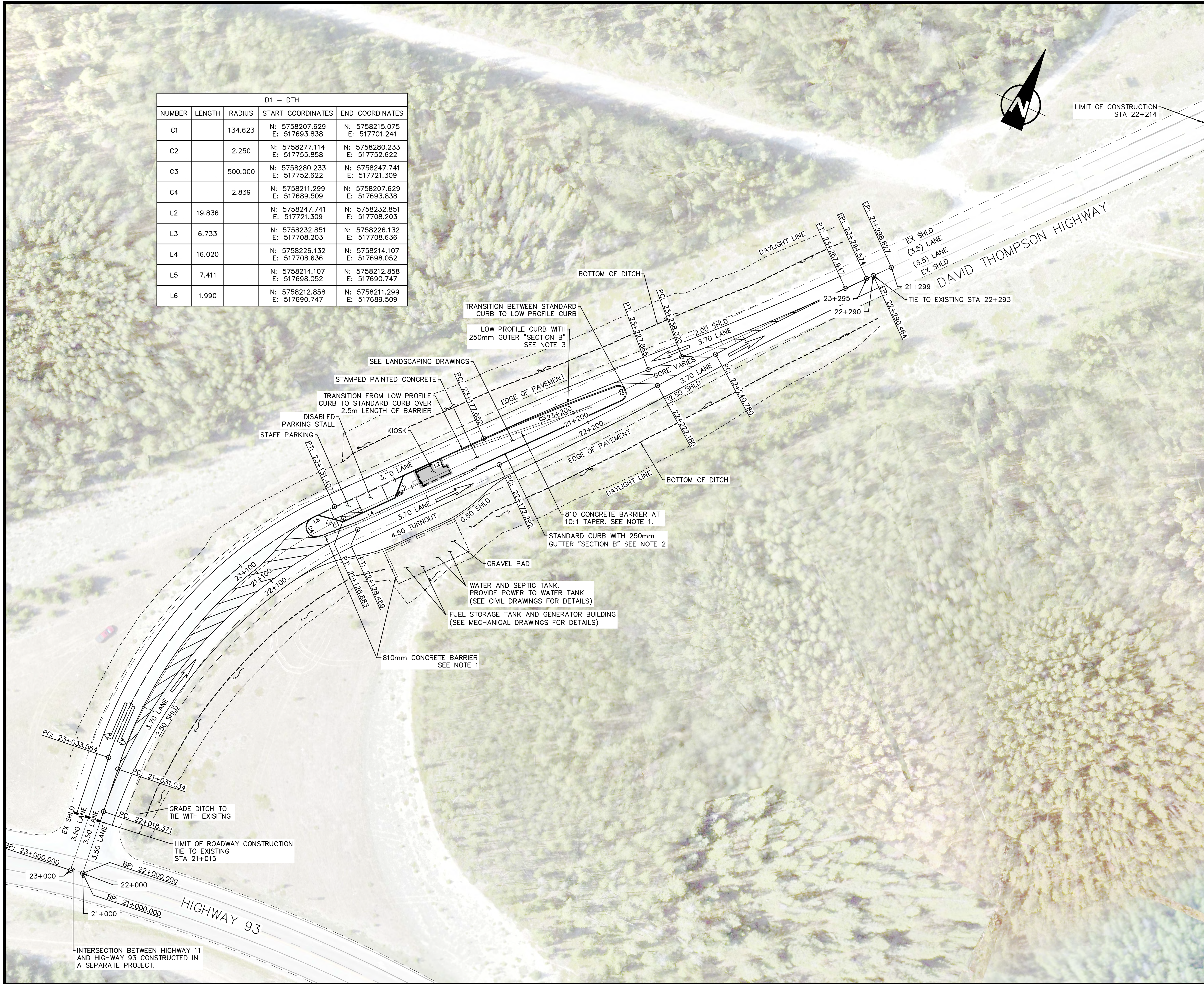
NOTES

LEGEND

LIMIT OF WORK

5	2017/05/03	ISSUE FOR TENDER	JN	RM
4	2017/03/24	90% DRAWING REISSUE CLIENT REVIEW	JN	RM
3	2017/02/15	90% DRAWING SUBMISSION CLIENT REVIEW	JN	RM
2	2016/12/07	75% DRAWING SUBMISSION CLIENT REVIEW	TC	RM
1	2016/10/25	ISSUED FOR REVIEW	TC	RM
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				
<div><div>A</div><div>B</div></div>		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 Sceau de l'ingénieur	
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<div><div></div><div>Parks Canada Strategic Asset Management, Western and Northern Region</div></div>			<div><div></div><div>Parcs Canada Gestion Stratégique des Biens, Région de l'Ouest et du Nord</div></div>	
<div>Canada</div>				
Project title/Titre du projet				
ICEFIELDS PARKWAY GATE				
NIBLOCK GATE				
BANFF NATIONAL PARK, ALBERTA				
Drawing title/Titre du dessin				
REFERENCE PLAN				
NIBLOCK				
Surveyed by/Arpenté par		Drawn by/Dessiné par	Date	
		JN	2017/05/03	
Designed by/Concept par		Reviewed by/Revisé par	Scale/Echelle	
		RM	AS NOTED	
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	
FII 907/908			02 of 02	
Drawing Set No./N° de série du dessin				
RP-02				

D1 - DTH				
NUMBER	LENGTH	RADIUS	START COORDINATES	END COORDINATES
C1		134.623	N: 5758207.629 E: 517693.838	N: 5758215.075 E: 517701.241
C2		2.250	N: 5758277.114 E: 517755.858	N: 5758280.233 E: 517752.622
C3		500.000	N: 5758280.233 E: 517752.622	N: 5758247.741 E: 517721.309
C4		2.839	N: 5758211.299 E: 517689.509	N: 5758207.629 E: 517693.838
L2	19.836		N: 5758247.741 E: 517721.309	N: 5758232.851 E: 517708.203
L3	6.733		N: 5758232.851 E: 517708.203	N: 5758226.132 E: 517708.636
L4	16.020		N: 5758226.132 E: 517708.636	N: 5758214.107 E: 517698.052
L5	7.411		N: 5758214.107 E: 517698.052	N: 5758212.858 E: 517690.747
L6	1.990		N: 5758212.858 E: 517690.747	N: 5758211.299 E: 517689.509



- NOTES
1. SEE SHEET T-MD-02 FOR 810mm BARRIER DETAILS.
 2. SEE SHEET T-MD-03 FOR CURB DETAILS.
 3. SEE SHEET T-MD-04 FOR LOW PROFILE CURB DETAILS.
 4. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES TO ENSURE THERE ARE NO CONFLICTS WITH THE DESIGN PRIOR TO CONSTRUCTION.
 5. SEE SHEET T-DGP-01 & T-DGP-02 FOR SUPER ELEVATION RECONSTRUCTION.

E	2017/05/03	ISSUED FOR TENDER	KL	WT
D	2017/03/22	REVISED 90% CLIENT REVIEW	KL	WT
C	2017/02/15	90% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
B	2016/12/07	75% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
A	2016/10/25	ISSUED FOR REVIEW	KL	WT
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



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du Nord

Canada

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Project title/Titre du projet

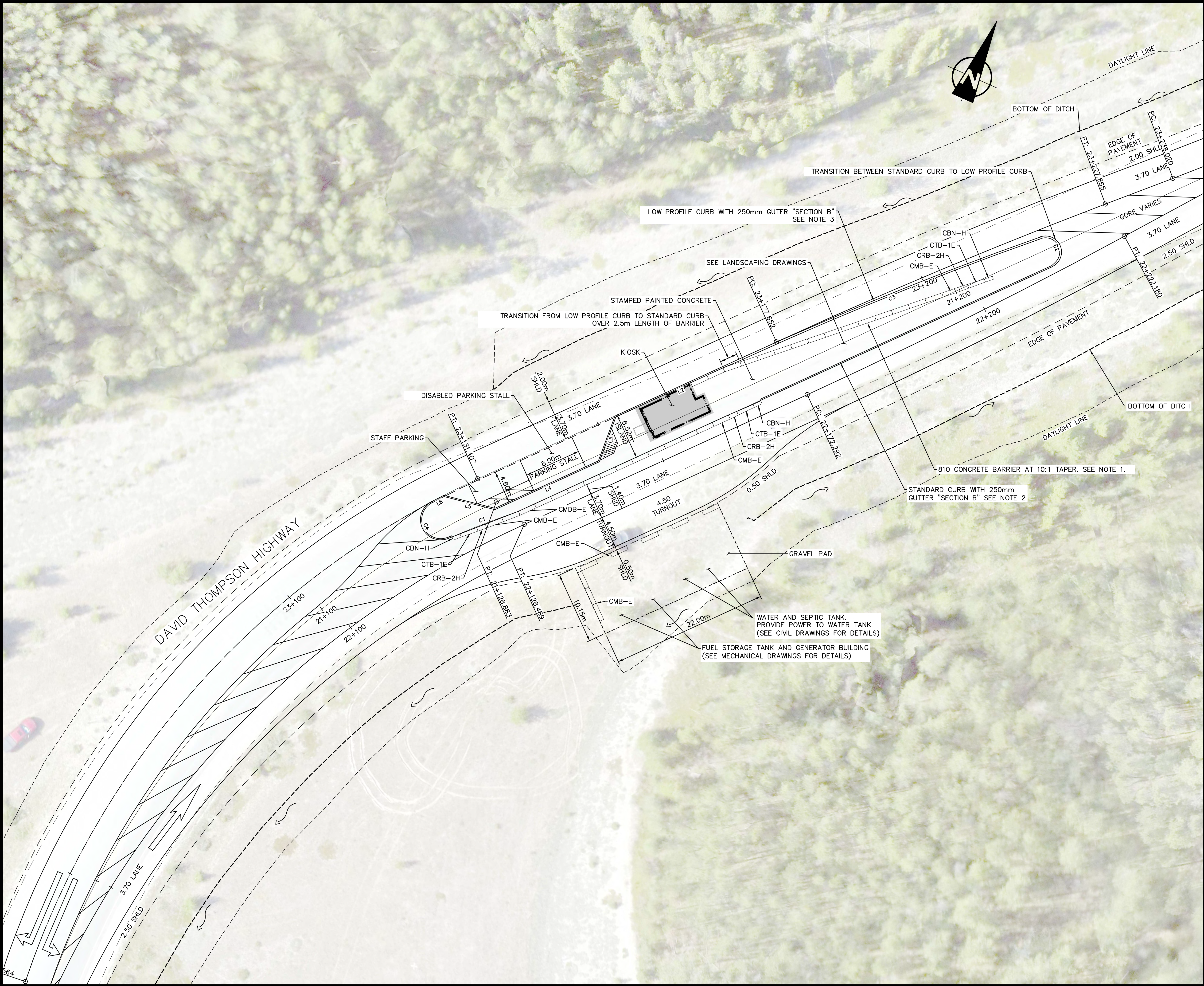
ICEFIELDS PARKWAY GATE
DAVID THOMPSON HIGHWAY GATE

BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin

GEOMETRICS AND LANING
SHEET 1

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
KL	AM	2017/05/03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
KL	WT	1:500
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
FII 907/908		1 of 2
Drawing Set No./N° de série du dessin		
T-DGL-01		



NOTES

1. SEE SHEET T-MD-02 FOR 810mm BARRIER DETAILS.
2. SEE SHEET T-MD-03 FOR BARRIER CURB DETAILS.
3. SEE SHEET T-MD-04 FOR LOW PROFILE CURB DETAILS.
4. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES TO ENSURE THERE ARE NO CONFLICTS WITH THE DESIGN PRIOR TO CONSTRUCTION.

E	2017/05/03	ISSUED FOR TENDER	KL	WT
D	2017/03/22	REVISED 90% CLIENT REVIEW	KL	WT
C	2017/02/15	90% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
B	2016/12/07	75% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
A	2016/10/25	ISSUED FOR REVIEW	KL	WT
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

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

Consultant's Name
Nom de l'expert-conseil



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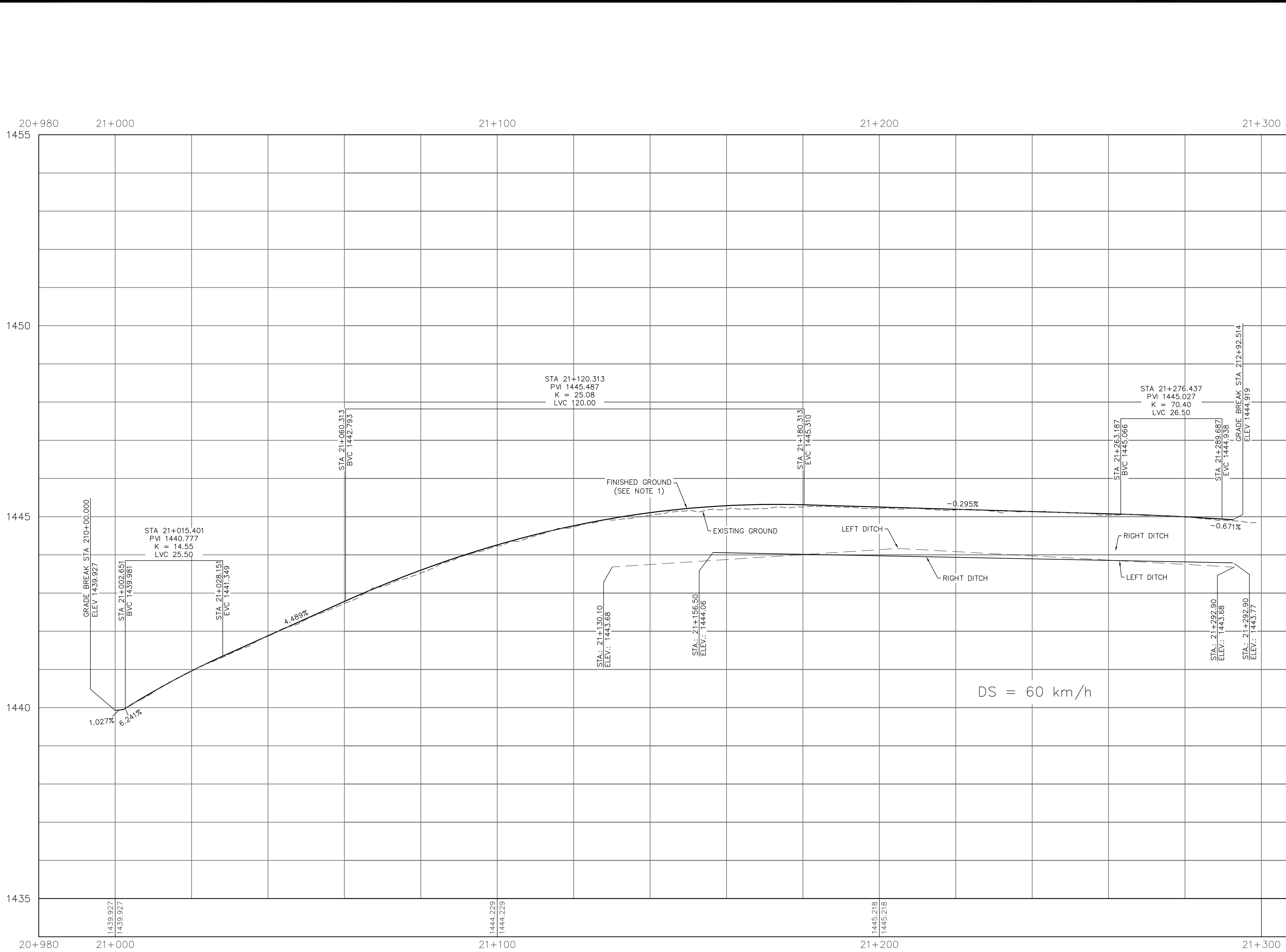
Project title/Titre du projet

ICEFIELDS PARKWAY GATE
DAVID THOMPSON HIGHWAY GATE
BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin

GEOMETRICS AND LANING
SHEET 2

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
	AM	2017/05/03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
KL	WT	1:250
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./N° du projet		Sheet No./N° de la feuille
FII 907/908		2 of 2
Drawing Set No./N° de série du dessin		
T-DGL-02		



NOTES
1. EXTENTS OF PAVEMENT MILL/FILL AND OVERLAY TO BE DETERMINED IN FIELD.

E	2017/05/03	ISSUED FOR TENDER	KL	WT
D	2017/03/22	REVISED 90% CLIENT REVIEW	KL	WT
C	2017/02/15	90% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
B	2016/12/07	75% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
A	2016/10/25	ISSUED FOR REVIEW	KL	WT
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Révision

A

B

Detail number
Sheet number

A Numéro de détail
B Numéro de la feuille

Linear dimensions
In millimètres

Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil

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du Nord

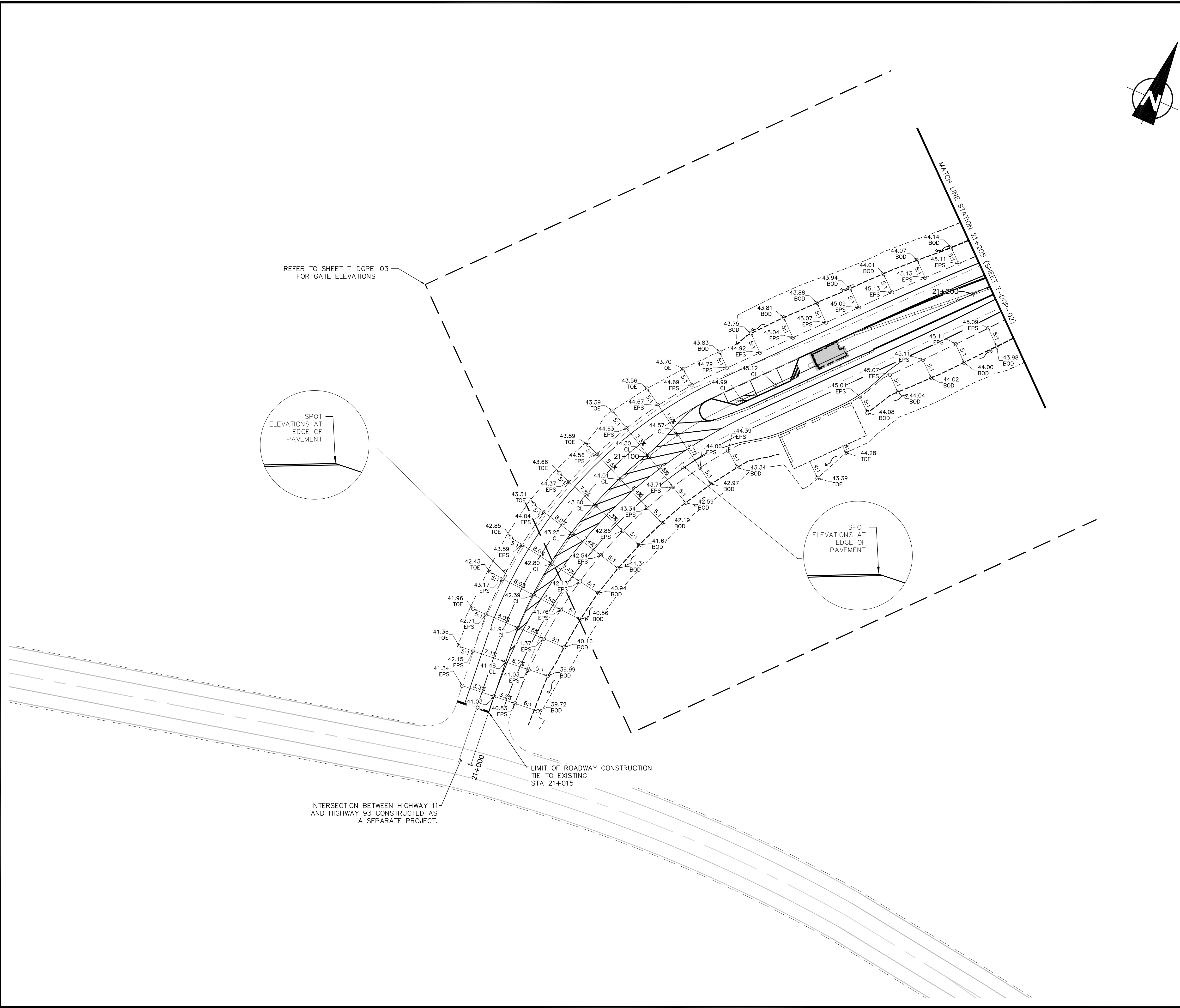
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Project title/Titre du projet
ICEFIELDS PARKWAY GATE
DAVID THOMPSON HIGHWAY GATE
BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin
ROAD PROFILES
SHEET 1

Surveyed by/Arpenté par AM	Drawn by/Dessiné par WT	Date 2017/05/03
Designed by/Concept par KL	Reviewed by/Revisé par WT	Scale/Echelle H 1:500 V 1:50
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date

Project No./N° du projet FII 907/908	Asset No./N° du bien	Sheet No./N° de la feuille 1 of 1
Drawing Set No./N° de série du dessin T-DPR-01		



NOTES

1. ELEVATIONS SHOWN ON PLAN HAVE BEEN SHORTENED FOR CLARITY AND REPRESENT AN ACTUAL ELEVATION OF 15XX.XX

E	2017/05/03	ISSUED FOR TENDER	KL	WT
D	2017/03/22	REVISED 90% CLIENT REVIEW	KL	WT
C	2017/02/15	90% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
B	2016/12/07	75% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
A	2016/10/25	ISSUED FOR REVIEW	KL	WT
No.	Date	Description	Drawn by Dessine par	Approved Approuvé
Revision / Révision				

A

B

Detail number

Sheet number

A Numéro de détail

B Numéro de la feuille

Linear dimensions
In millimètres

Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil

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Project title/Titre du projet

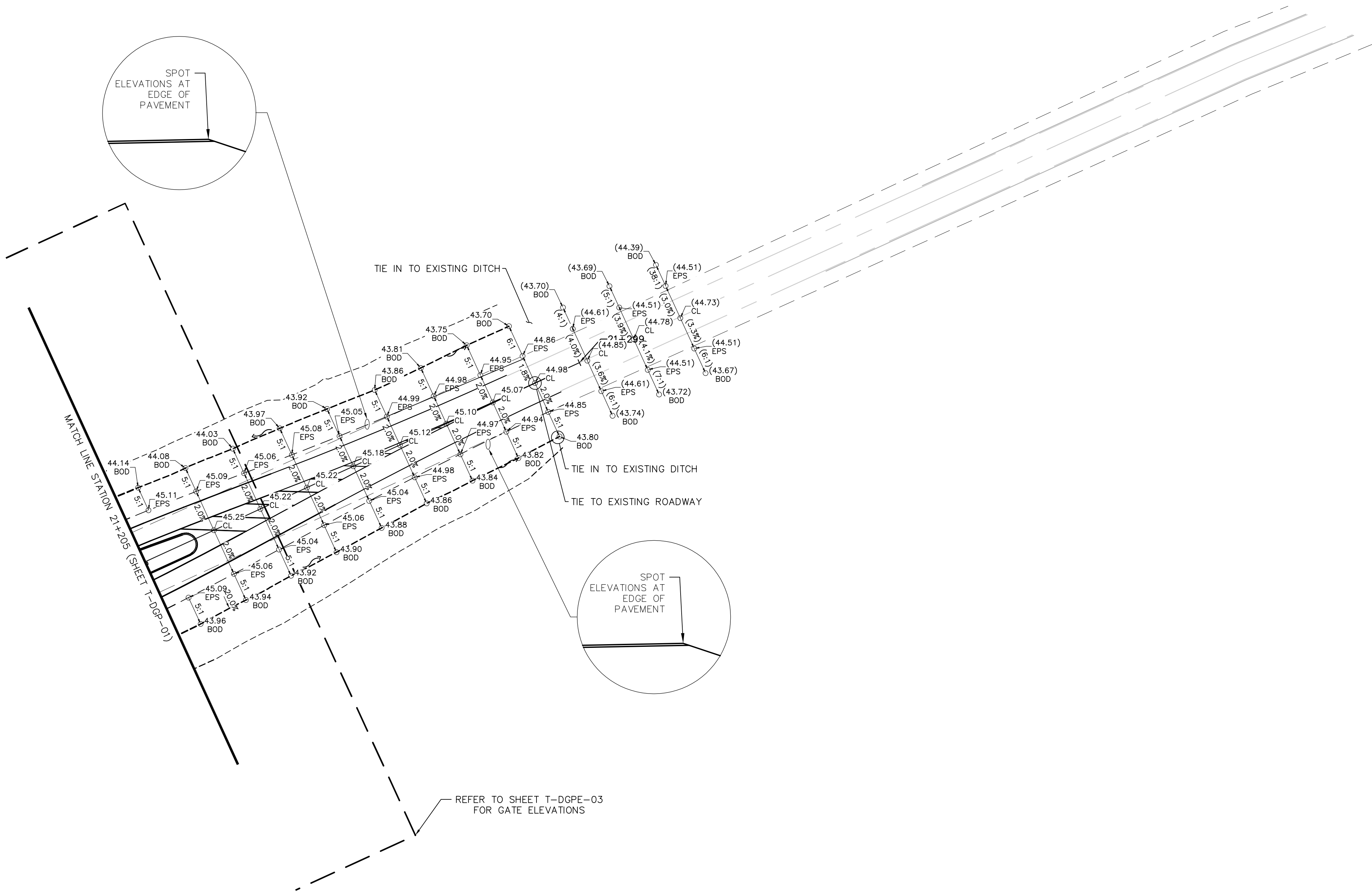
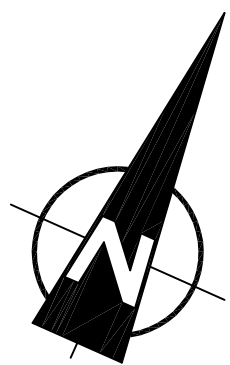
ICEFIELDS PARKWAY GATE
DAVID THOMPSON HIGHWAY GATE
BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin

GRADING AND PAVEMENT ELEVATIONS
SHEET 1

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
	A.J.	2017/05/03
Designed by/Concept par	Reviewed by/Révisé par	Scale/Echelle
K.L.	W.T.	1:500
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date

Project No./Nº du projet	Asset No./Nº du bien	Sheet No./Nº de la feuille
FII 907/908		1 of 3
Drawing Set No./Nº de série du dessin		
T-DGP-01		



NOTES
1. ELEVATIONS SHOWN ON PLAN HAVE BEEN SHORTENED FOR CLARITY AND REPRESENT AN ACTUAL ELEVATION OF 15XX.XX

E	2017/05/03	ISSUED FOR TENDER	KL	WT
D	2017/03/22	REVISED 90% CLIENT REVIEW	KL	WT
C	2017/02/15	90% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
B	2016/12/07	75% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
A	2016/10/25	ISSUED FOR REVIEW	KL	WT
No.	Date	Description	Drawn by Dessine 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



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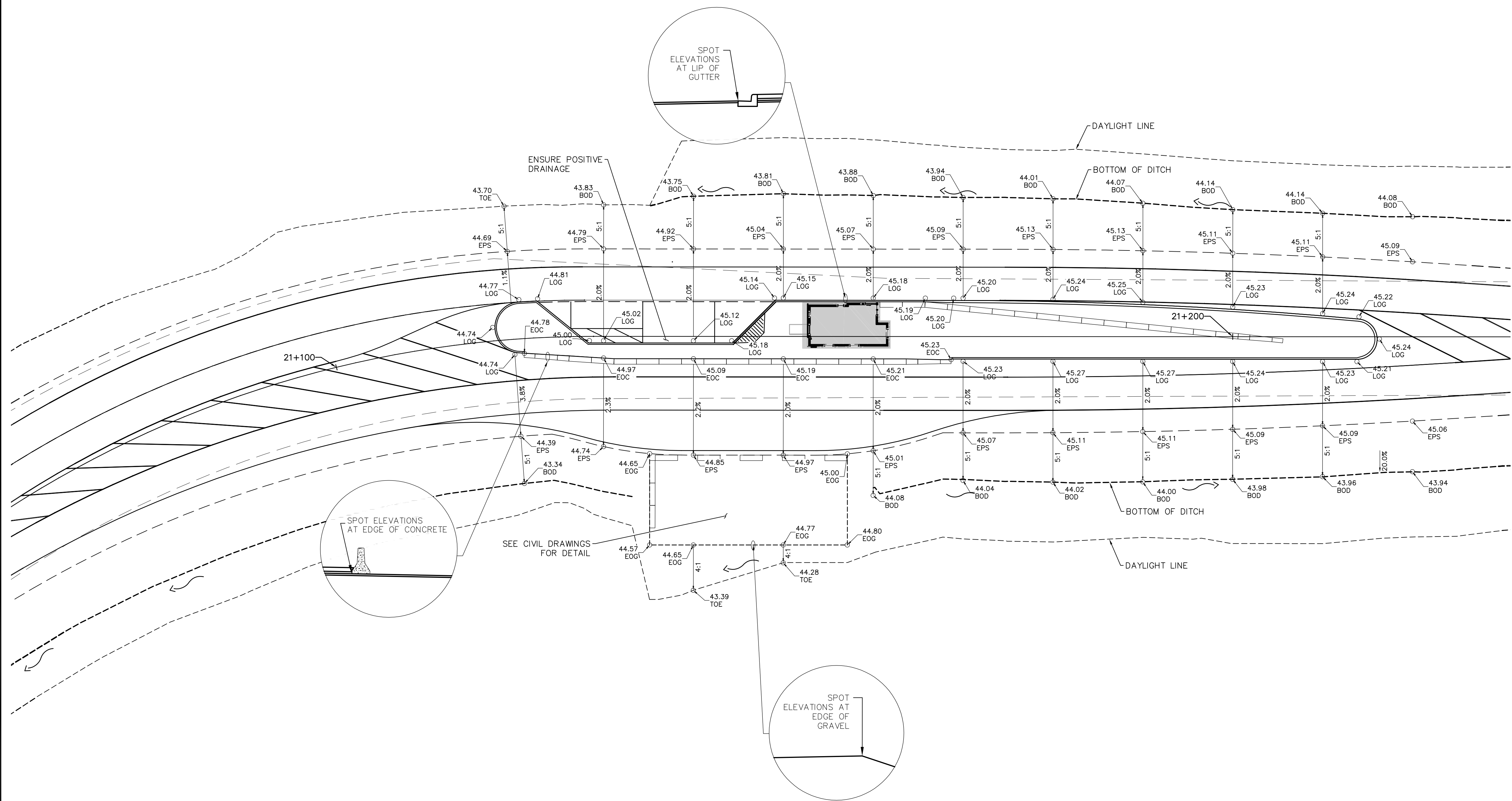
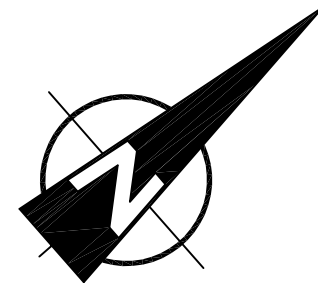
Project title/Titre du projet

ICEFIELDS PARKWAY GATE
DAVID THOMPSON HIGHWAY GATE
BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin

GRADING AND PAVEMENT ELEVATIONS
SHEET 2

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
K.L.	A.J.	2017/05/03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
	W.T.	1:500
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet	Asset No./Nº du bien	Sheet No./Nº de la feuille
FII 907/908		2 of 3
Drawing Set No./Nº de série du dessin		
T-DGP-02		



NOTES
1. ELEVATIONS SHOWN ON PLAN HAVE BEEN SHORTENED FOR CLARITY AND REPRESENT AN ACTUAL ELEVATION OF 15XX.XX

E	2017/05/03	ISSUED FOR TENDER	KL	WT
D	2017/03/22	REVISED 90% CLIENT REVIEW	KL	WT
C	2017/02/15	90% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
B	2016/12/07	75% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
A	2016/10/25	ISSUED FOR REVIEW	KL	WT
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Révision

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

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Parks Canada

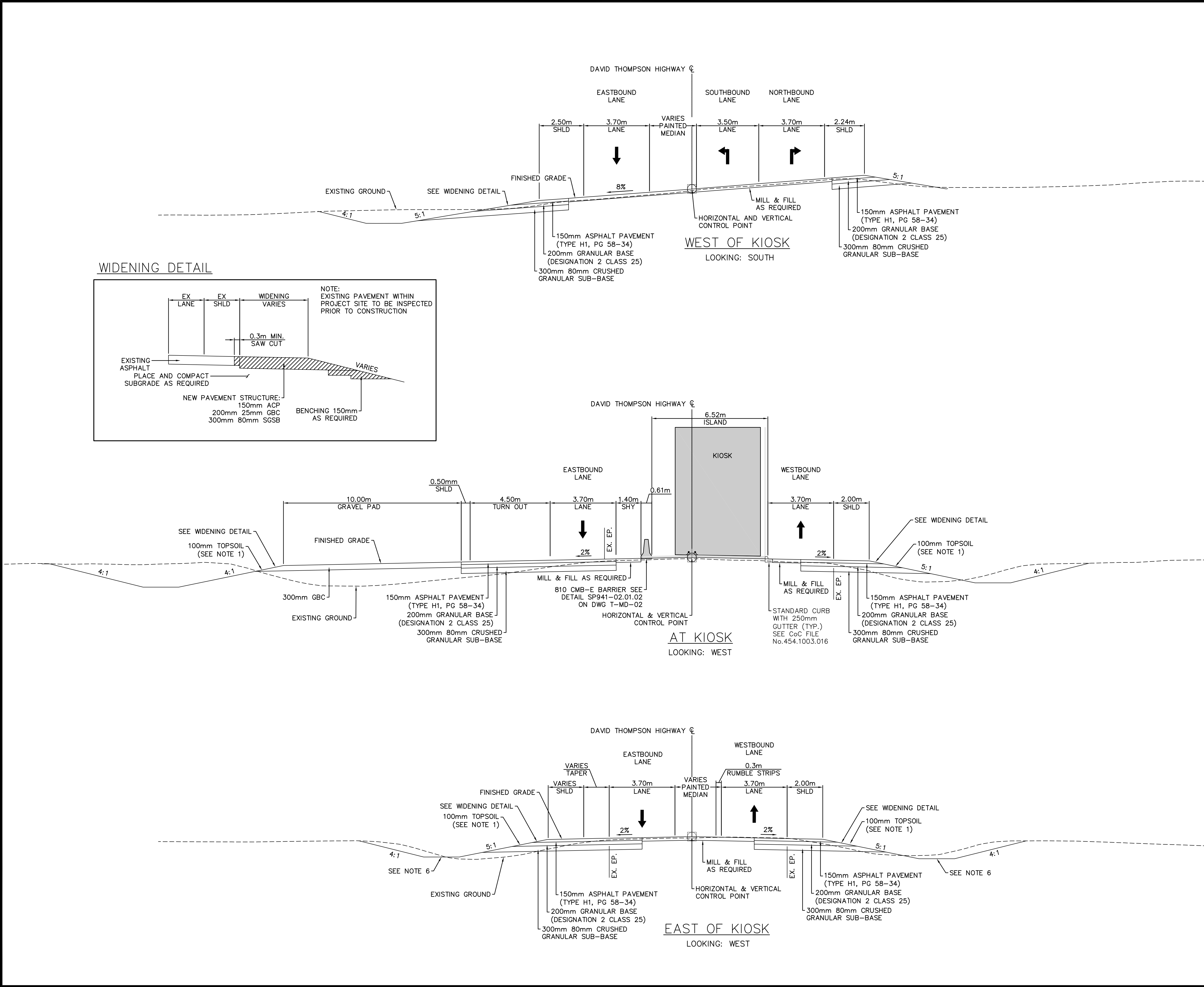
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Région de l'Ouest et
du Nord

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Project title/Titre du projet ICEFIELDS PARKWAY GATE DAVID THOMPSON HIGHWAY GATE BANFF NATIONAL PARK, ALBERTA			
Drawing title/Titre du dessin GRADING AND PAVEMENT ELEVATIONS SHEET 3			
Surveyed by/Arpenté par K.L.	Drawn by/Dessiné par A.J.	Date 2017/05/03	
Designed by/Concept par K.L.	Reviewed by/Revisé par W.T.	Scale/Echelle 1:250	
Client Acceptance/Acceptation du client		Approved by/Approuvé par	
Date		Date	
Project No./N° du projet FII 907/908	Asset No./N° du bien	Sheet No./N° de la feuille 3 of 3	
Drawing Set No./N° de série du dessin T-DGP-03			



- NOTES
1. TO BE CONFIRMED
 2. SEE SHEET 'T-MD-02' FOR 810mm BARRIER DETAILS.
 3. EXTENTS OF PAVEMENT MILL/FILL AND OVERLAY TO BE DETERMINED IN THE FIELD.
 4. PAVEMENT JOINTS ARE NOT TO BE LOCATED WITHIN 0.3m MIN. FROM EXISTING EOP. EDGE OF MILLING SHALL NOT BE ON WHEEL PATHS. PAVEMENT JOINTS WHEN IN LANES SHOULD BE LOCATED ALONG THE CENTER OF LANE.
 5. DEPTH OF EXISTING ASPHALT TO BE RETAINED AT A MINIMUM.
 6. MATCH EXISTING DITCH ELEVATIONS.
 7. ASPHALT PAVEMENT GRANULAR BASE AND GRANULAR SUBBASE IN ACCORDANCE WITH ALBERTA TRANSPORTATION STANDARD SPECIFICATIONS.
 8. EXISTING ASPHALT SURFACE TO BE ASSESSED BY GEOTECHNICAL ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 9. EXISTING PAVEMENT WITHIN PROJECT SITE TO BE INSPECTED PRIOR TO CONSTRUCTION

E	2017/05/03	ISSUED FOR TENDER	KL	WT
D	2017/03/22	REVISED 90% CLIENT REVIEW	KL	WT
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A	2016/10/25	ISSUED FOR REVIEW	KL	WT
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




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Project title/Titre du projet

ICEFIELDS PARKWAY GATE

DAVID THOMPSON HIGHWAY GATE

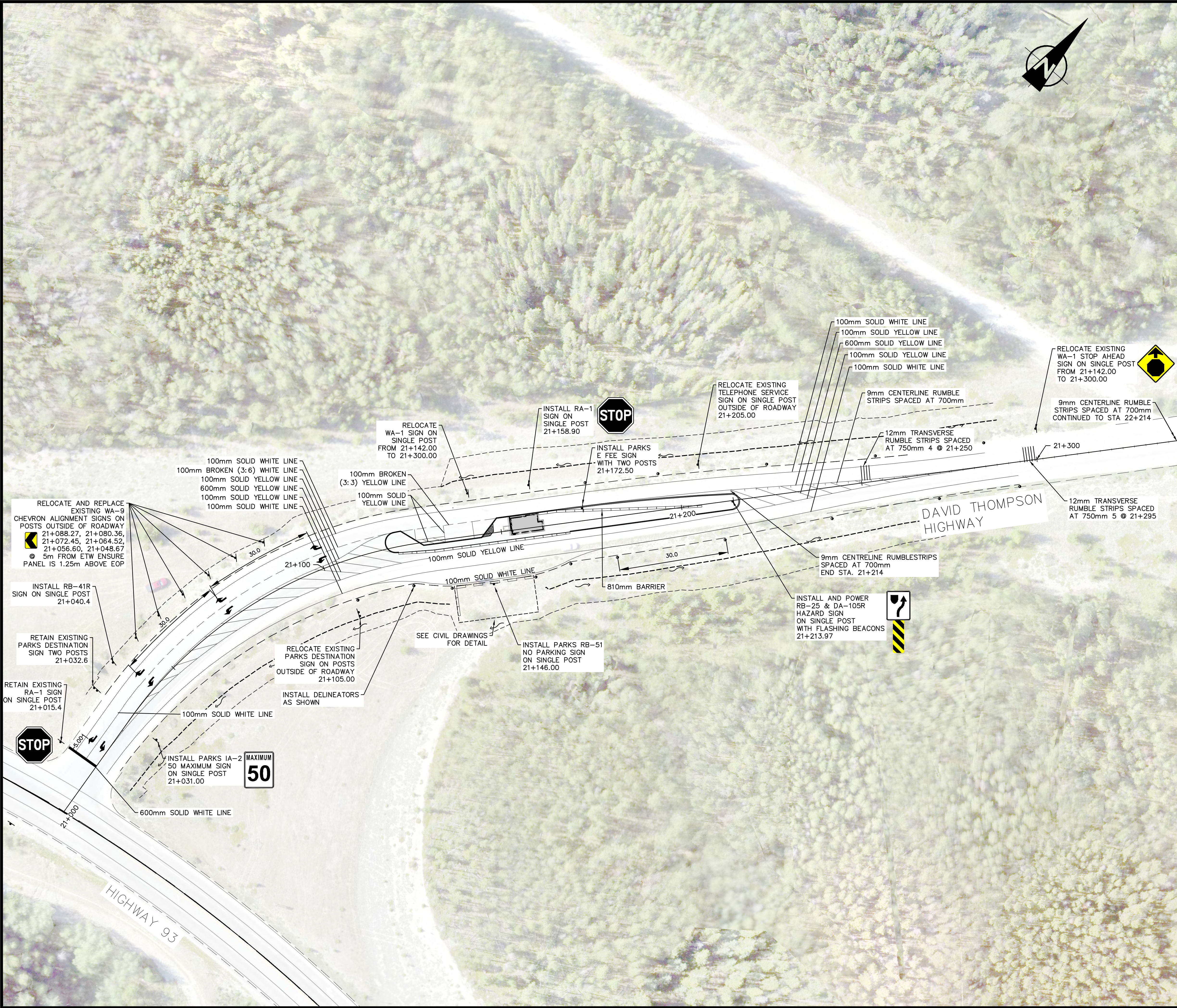
BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin

TYPICAL SECTIONS

SHEET 1

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
KL	AM	2017/05/03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
KL	WT	NTS
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet	Asset No./Nº du bien	Sheet No./Nº de la feuille
FII 907/908		1 of 1
Drawing Set No./Nº de série du dessin		
T-DTS-01		



- NOTES
1. SEE SHEET T-MD-04 FOR RUMBLE STRIP DETAILS.
 2. CONTRACTOR TO SURVEY EXISTING PAINTLINES AT TIE-INS & BEFORE REMOVAL TO ENSURE PAINTLINES TIE WITH EXISTING.
 3. NEW AND RELOCATED SIGNS TO BE INSTALLED ON NEW POSTS.
 4. EXISTING SIGNS TO BE INSPECTED PRIOR TO CONSTRUCTION AND REPLACE IF NECESSARY.

E	2017/05/03	ISSUED FOR TENDER	KL	WT
D	2017/03/22	REVISED 90% CLIENT REVIEW	KL	WT
C	2017/02/15	90% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
B	2016/12/07	75% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
A	2016/10/25	ISSUED FOR REVIEW	KL	WT
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
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Linear dimensions
in millimètres

Dimensions linéaires
en millimètres


Consultant's Name
Nom de l'expert-conseil



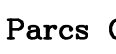
220, 48 Quarry Park Blvd SE
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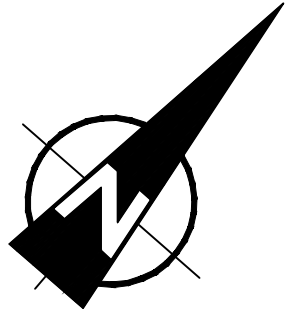
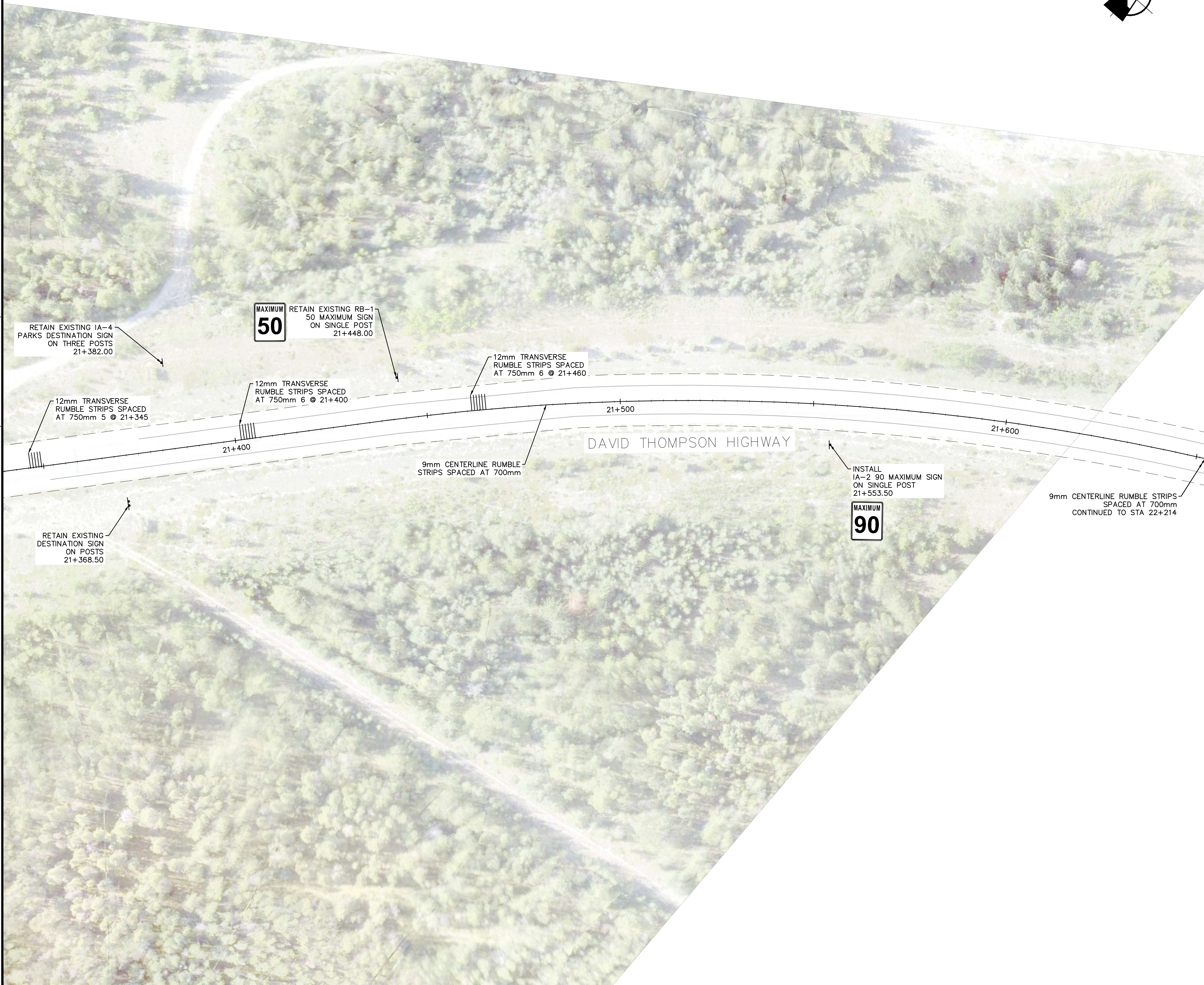
Project title/Titre du projet

ICEFIELDS PARKWAY GATE
DAVID THOMPSON HIGHWAY GATE
BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin

PAVEMENT MARKING AND SIGNAGE
SHEET 1

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
KL	AM	2017/05/03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
KL	WT	1:500
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
FII 907/908		1 of 3
Drawing Set No./N° de série du dessin		
T-DPM-01		



- NOTES
1. SEE SHEET T-MD-04 FOR RUMBLE STRIP DETAILS.
 2. NEW AND RELOCATED SIGNS TO BE INSTALLED ON NEW POSTS.
 3. EXISTING SIGNS TO BE INSPECTED PRIOR TO CONSTRUCTION AND REPLACE IF NECESSARY.

E	2017/05/03	ISSUED FOR TENDER	KL	WT
D	2017/03/22	REVISED 90% CLIENT REVIEW	KL	WT
C	2017/02/15	90% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
B	2016/12/07	75% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
A	2016/10/25	ISSUED FOR REVIEW	KL	WT
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



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Project title/Titre du projet

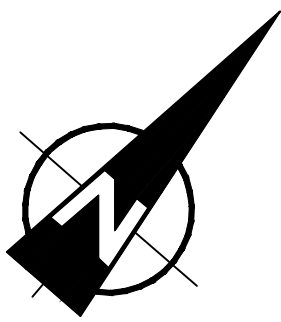
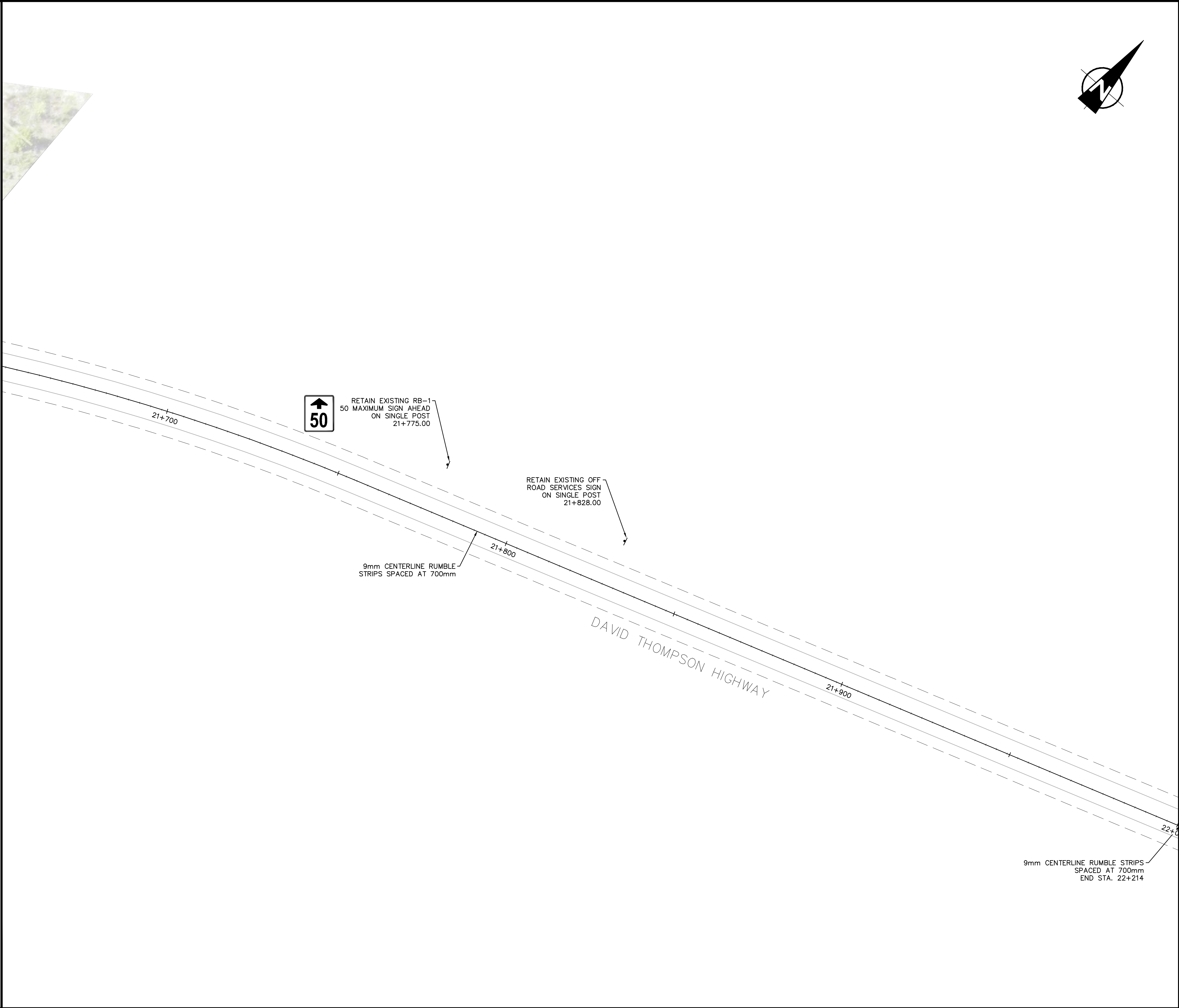
ICEFIELDS PARKWAY GATE
DAVID THOMPSON HIGHWAY GATE
BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin

PAVEMENT MARKING AND SIGNAGE
SHEET 2

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
KL	AM	2017/05/03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
KL	WT	1:500
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
FII 907/908		2 of 3
Drawing Set No./N° de série du dessin		
T-DPM-02		

MATCH LINE (SHEET T-DPM-02)



NOTES

E	2017/05/03	ISSUED FOR TENDER	KL	WT
D	2017/03/22	REVISED 90% CLIENT REVIEW	KL	WT
C	2017/02/15	90% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
B	2016/12/07	75% DRAWING SUBMISSION CLIENT REVIEW	KL	WT
A	2016/10/25	ISSUED FOR REVIEW	KL	WT
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

<div>A</div> <div>B</div>	Detail number Sheet number	A Numéro de détail B Numéro de la feuille
Linear dimensions in millimètres		Dimensions linéaires en millimètres

Consultant's Name
Nom de l'expert-conseil

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Project title/Titre du projet

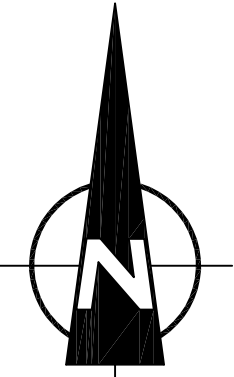
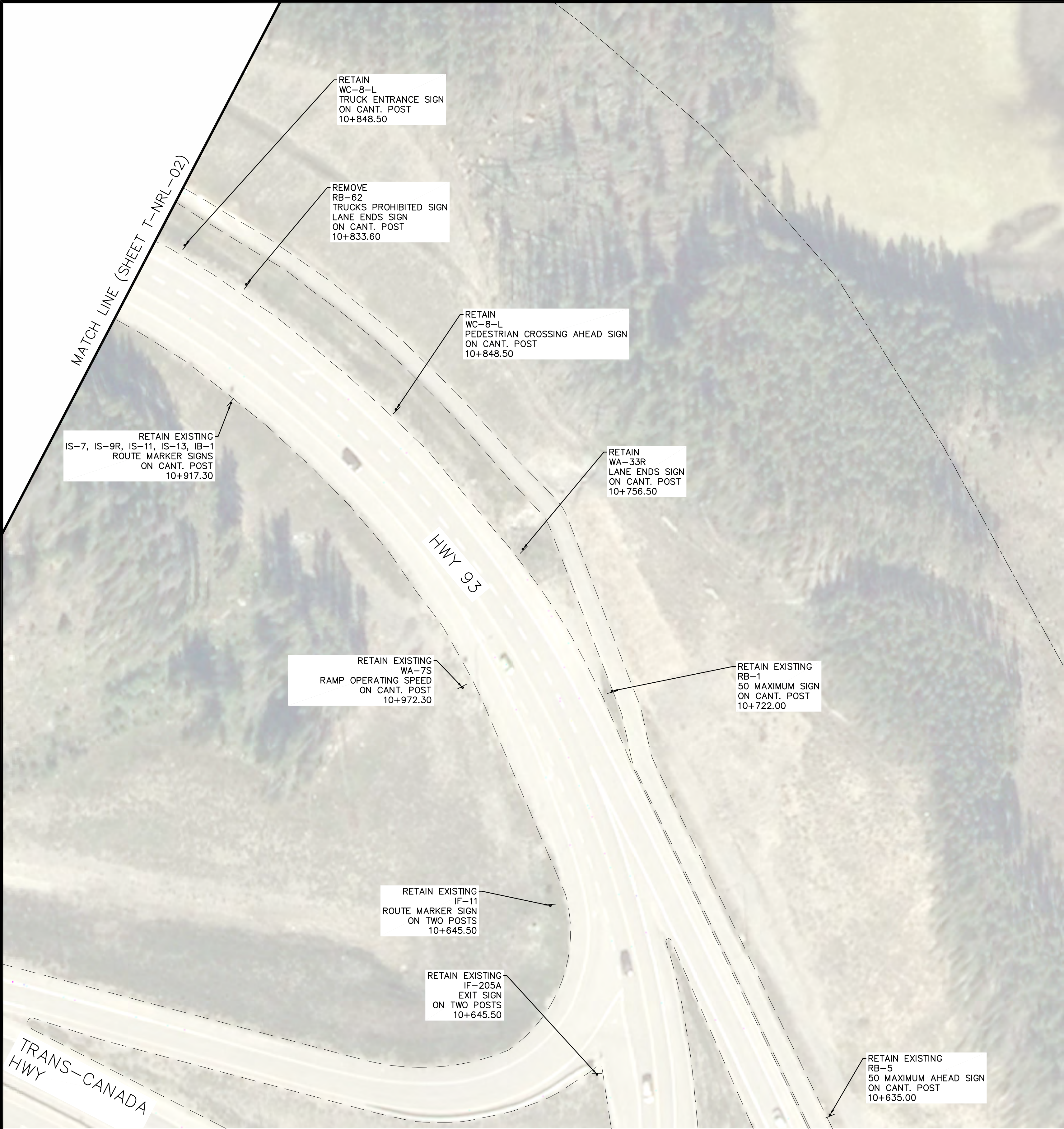
ICEFIELDS PARKWAY GATE
DAVID THOMPSON HIGHWAY GATE

BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin

PAVEMENT MARKING AND SIGNAGE
SHEET 3

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
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Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
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Date		Date
Project No./Nº du projet	Asset No./Nº du bien	Sheet No./ Nº de la feuille
FII 907/908		3 of 3
Drawing Set No./Nº de série du dessin		
T-DPM-03		



NOTES

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D	2017/03/22	REVISED 90% CLIENT REVIEW	KL	WT
C	2017/02/15	90% DRAWING SUBMISSION CLIENT REVIEW	AJ	WT
B	2016/12/07	75% DRAWING SUBMISSION CLIENT REVIEW	AJ	WT
A	2016/10/25	ISSUED FOR REVIEW	KL	WT
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Révision

A
B

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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



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Project title/Titre du projet

ICEFIELDS PARKWAY GATE
NIBLOCK GATE
BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin

REMOVALS
SHEET 1

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
KL	AM	2017/05/03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
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Project No./N° du projet	Asset No./N° du bien	Sheet No./ N° de la feuille
FII 907/908		1 of 3
Drawing Set No./N° de série du dessin		
T-NRL-01		

MATCH LINE (SHEET T-NRL-03)



RELOCATE EXISTING
IB-1
ROUTE MARKER SIGN
ON CANT. POST
OUTSIDE OF ROADWAY
11+098.00

RELOCATE EXISTING
BEAR WARNING SIGN
ON TWO WOOD POSTS
FROM 11+047.40
TO 12+105.00

LIGHT POLE REMOVED/
REPLACED BY OTHERS

RETAIN EXISTING
RB-25
ON SINGLE POST
10+996.40

RETAIN EXISTING
NIBLOCK PIT INFORMATION SIGN
ON SINGLE POST
10+989.50

RETAIN EXISTING
NIBLOCK PIT CLOSED SIGN
ON TWO POSTS
10+983.50

RETAIN EXISTING
TRUCK RESTRICTION SIGN
ON FOUR POSTS
11+008.60

REMOVE EXISTING
PASS REQUIRED SIGN
ON TWO POSTS
10+039.50

RETAIN EXISTING
BEAR GATE DANGER SIGNS
ON POSTS
10+962.50

RETAIN EXISTING
WINTER TRAVEL CONDITIONS SIGN
ON FOUR POSTS
10+962.50

RETAIN EXISTING
BEAR GATE SIGN
ON CANT. POST
10+882.40

RETAIN
WA-33R
LANE ENDS SIGN
ON CANT. POST
10+864.00

RETAIN EXISTING
WA-3R
PEDESTRIAN CROSSING AHEAD SIGN
ON CANT. POST
11+105.00

REMOVE EXISTING
PARKS IA-4
HWY 1 WEST DESTINATION SIGN
ON TWO POSTS
FROM 11+130.00

RETAIN EXISTING
BEAR GATE SIGN
ON CANT. POST
10+920.40

RELOCATE EXISTING
WA-3R
SINGLE CURVE SIGN
ON CANT. POST
FROM 11+043.50
TO 10+935.00

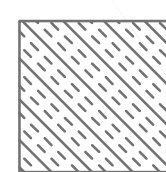
RETAIN EXISTING
WC-45
BICYCLE SLIPPERY WHEN
WET SIGN
ON CANT. POST
10+998.10

RETAIN
RA-5
PEDESTRIAN CROSSING SIGN
ON BEACON STANDARD
10+972.50

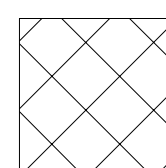
RETAIN EXISTING
PARKS IA-4
HWY 1 EAST DESTINATION SIGN
ON TWO POSTS
FROM 10+972.30

RETAIN EXISTING
IB-1 & RC-T
TRAILBLAZER SIGN
ON CANT. POST
10+917.30

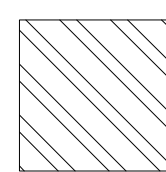
LEGEND



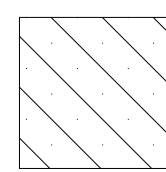
— ASPHALT REMOVAL



— MILL/FILL & OVERLAY



— GRUBBING



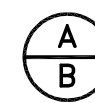
— CLEARING & GRUBBING

NOTES

1. EXTENTS OF PAVEMENT MILL/FILL AND OVERLAY TO BE DETERMINED IN FIELD.
2. PAVEMENT JOINTS ARE NOT TO BE LOCATED WITHIN WHEEL PATHS OR 0.5m FROM THE EXISTING EOP. JOINTS LOCATED WITHIN THE TRAVELED WAY ARE TO BE LOCATED AT THE CENTER OF THE LANE.
3. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES TO ENSURE THERE ARE NO CONFLICTS WITH THE DESIGN PRIOR TO CONSTRUCTION.
4. CLEARING & GRUBBING/ WORK LIMITS TO BE LAYED OUT IN THE FIELD BY THE CONTRACTOR BASED ON PROVISIONS PROVIDED BY PARK.
5. NEW AND RELOCATED SIGNS TO BE INSTALLED ON NEW POSTS.

E	2017/05/03	ISSUED FOR TENDER	KL	WT
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Revision / Révision



Detail number
Sheet number

A Numéro de détail
B Numéro de la feuille

Linear dimensions
In millimètres

Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil



Eng. Stamp
Sceau de l'ingénieur



Parks Canada
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MMM GROUP LIMITED
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Project title/Titre du projet

ICEFIELDS PARKWAY GATE
NIBLOCK GATE
BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin

REMOVALS
SHEET 2

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
KL	AM	2017/05/03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
KL	WT	1:500
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
FII 907/908		2 of 3
Drawing Set No./N° de série du dessin		
T-NRL-02		

MATCH LINE (SHEET T-NGL-02)



NOTES
1. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES TO ENSURE THERE ARE NO CONFLICTS WITH THE DESIGN PRIOR TO CONSTRUCTION.

E	2017/05/03	ISSUED FOR TENDER	KL	WT
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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


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Canada

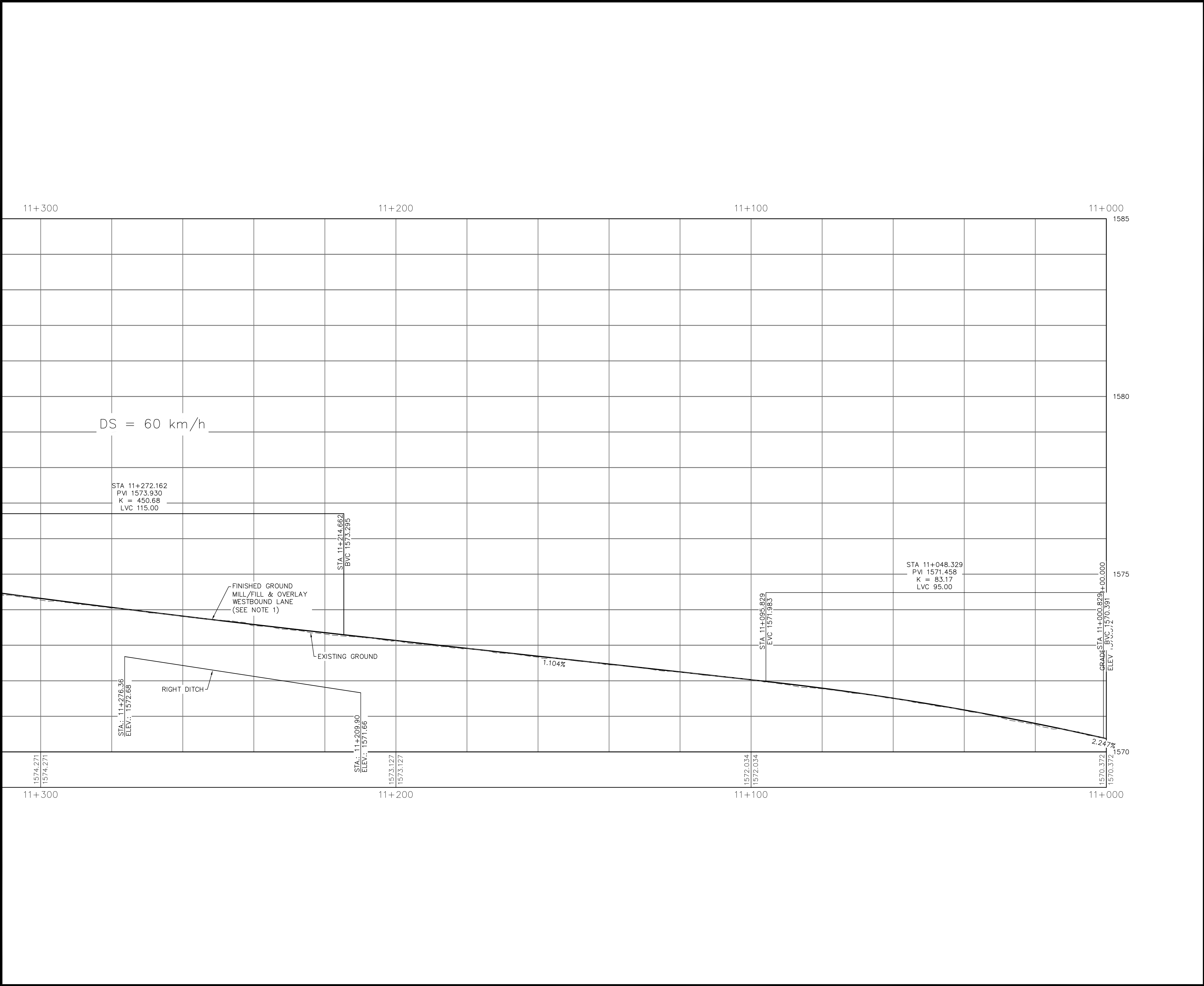
PERMIT TO PRACTICE
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PERMIT NUMBER: P 8845
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Project title/Titre du projet
ICEFIELDS PARKWAY GATE
NIBLOCK GATE
BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin
GEOMETRICS AND LANING
SHEET 1

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
	AM	2017/05/03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
KL	WT	1:500
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
FII 907/908		1 of 3
Drawing Set No./N° de série du dessin		
T-NGL-01		



NOTES

1. EXTENTS OF PAVEMENT MILL/FILL & OVERLAY TO BE DETERMINED IN FIELD.

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Revision / Revision

A
B

Detail number
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A Numéro de détail
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Linear dimensions
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Consultant's Name
Nom de l'expert-conseil



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ICEFIELDS PARKWAY GATE

NIBLOCK GATE

BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin

ROAD PROFILES
SHEET 1

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
KL	AM	2017/05/03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
KL	WT	H 1:500 V 1:50
Client Acceptance/Acceptation du client	Approved by/Approuve par	
Date	Date	Date

Project No./N° du projet

FII 907/908

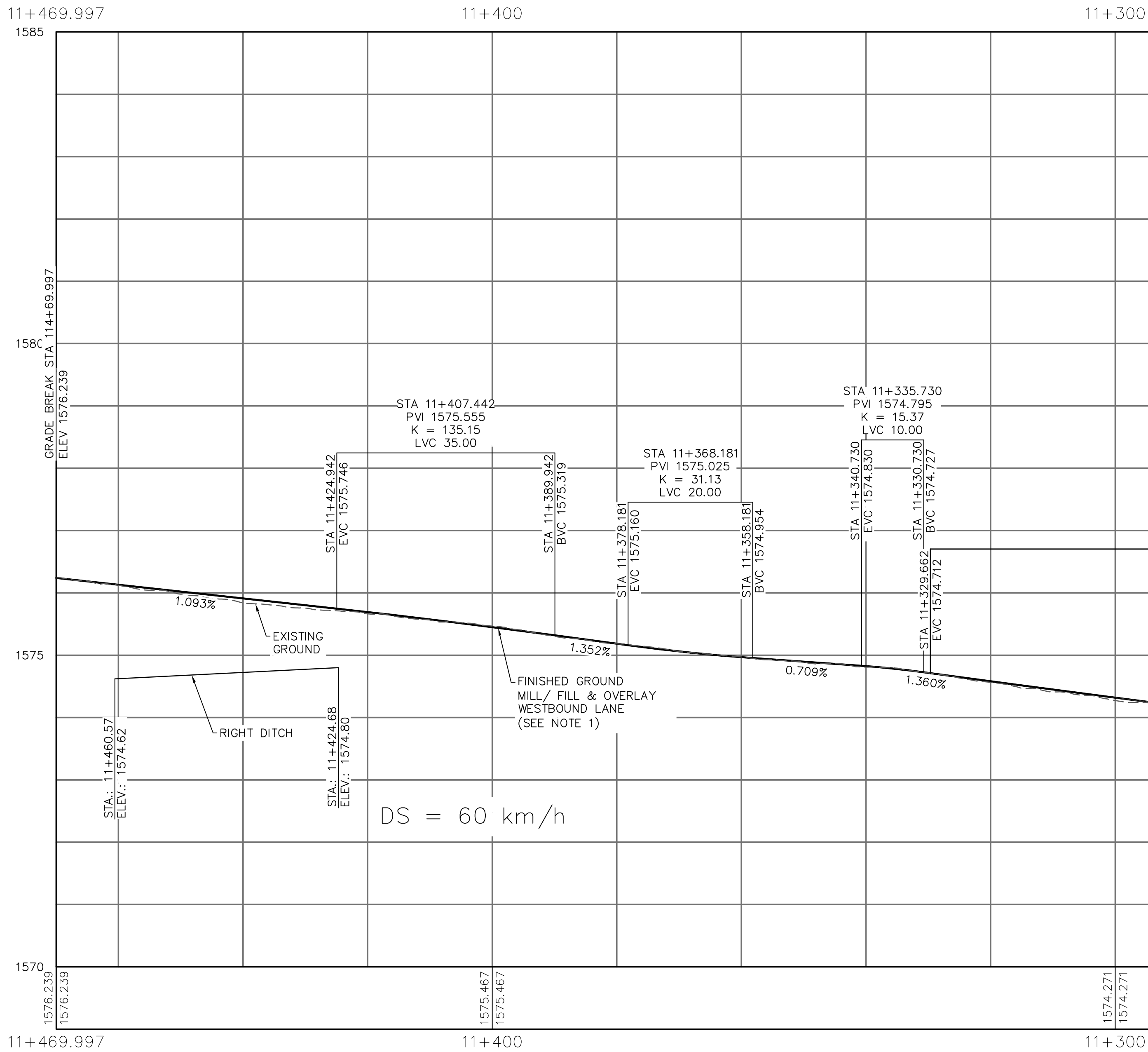
Asset No./N° du bien

Sheet No./
N° de la feuille

1 of 2

Drawing Set No./N° de série du dessin

T-NPR-01



NOTES

1. EXTENTS OF PAVEMENT MILL/FILL AND OVERLAY TO BE DETERMINED IN FIELD.

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No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Révision				
A B	Detail number Sheet number		A Numéro de détail B Numéro de la feuille	
	Linear dimensions In millimètres		Dimensions linéaires en millimètres	


Consultant's Name
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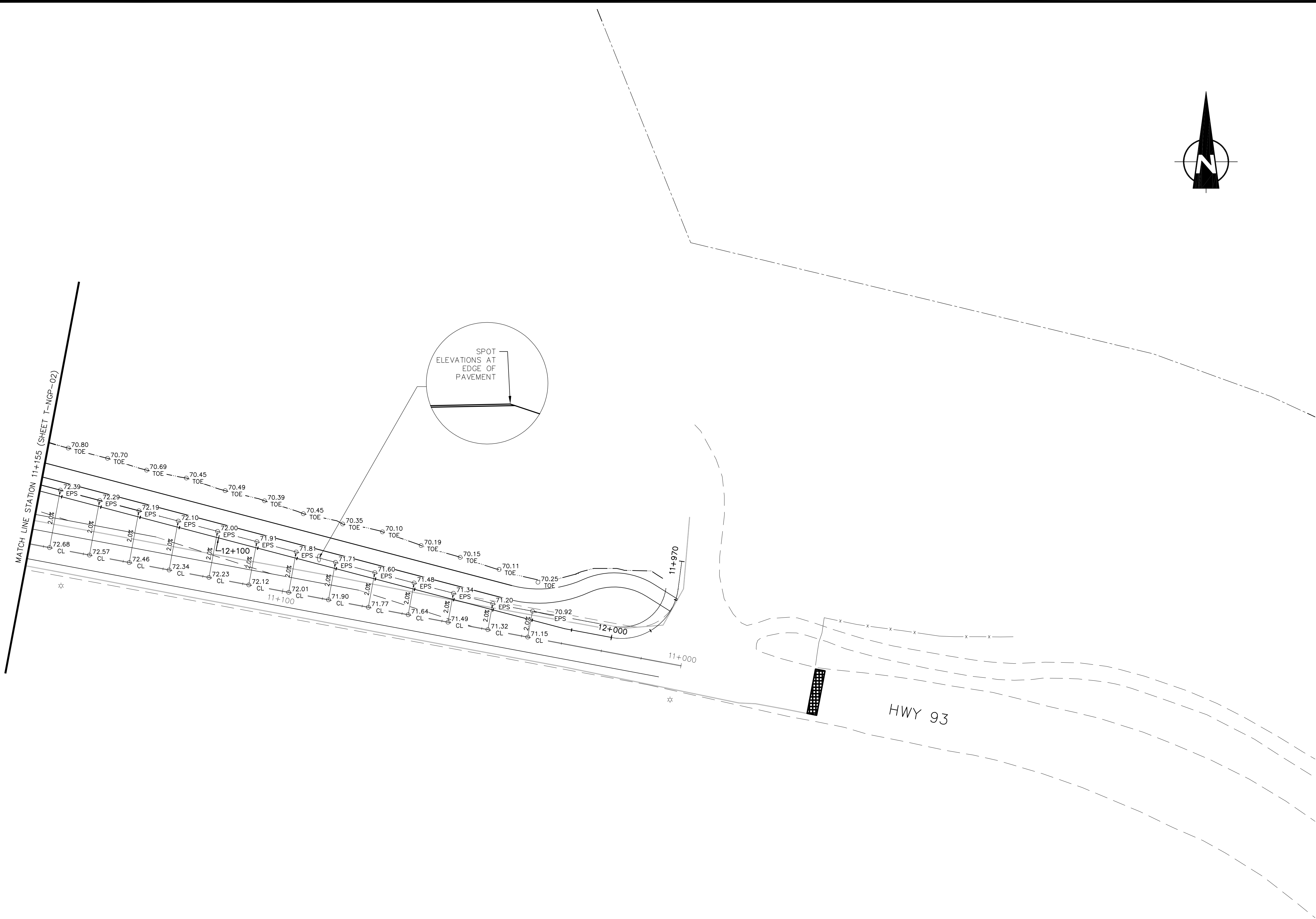
Project title/Titre du projet

ICEFIELDS PARKWAY GATE
NIBLOCK GATE
BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin

ROAD PROFILES
SHEET 2

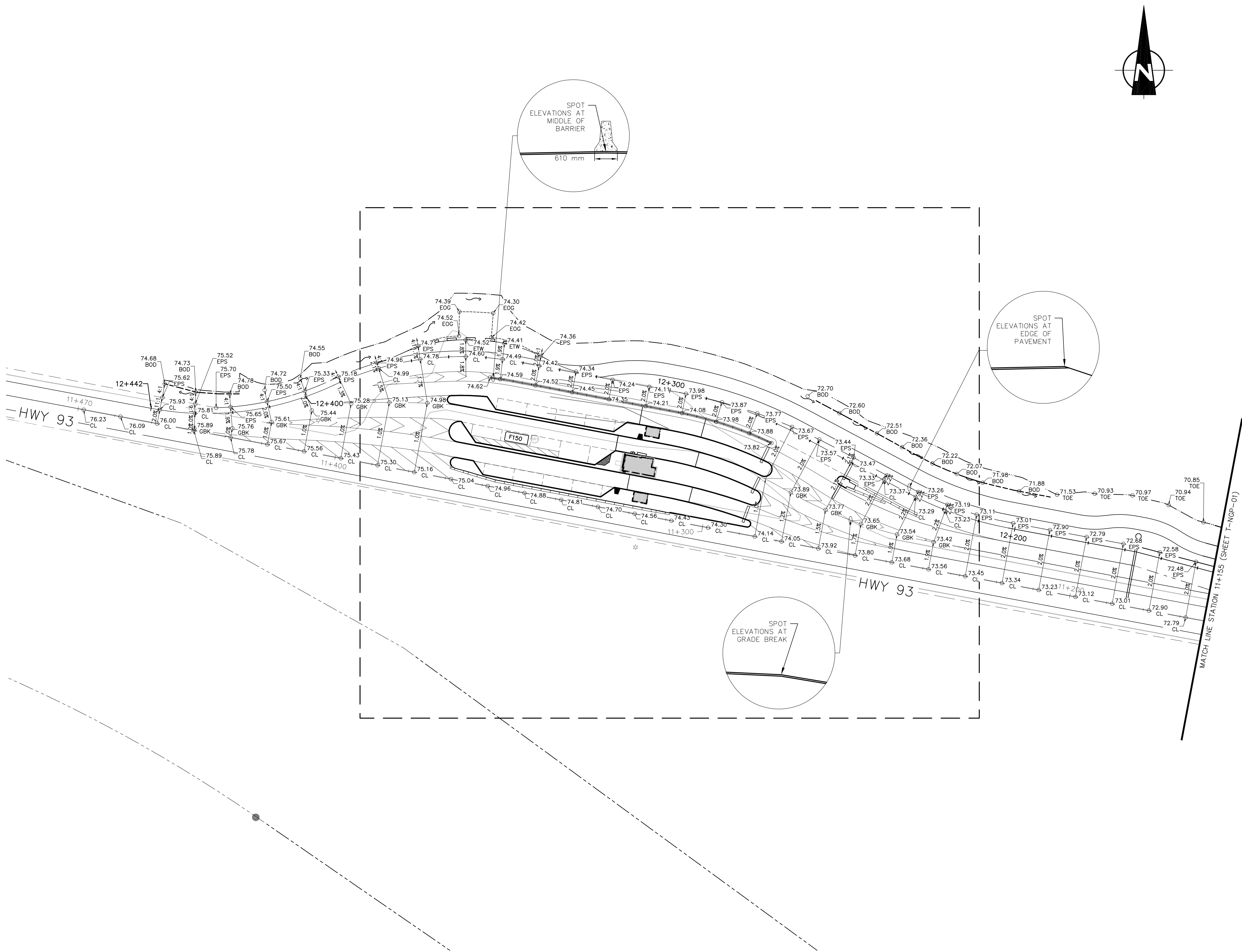
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Date		Date
Project No./N° du projet	Asset No./N° du bien	Sheet No./N° de la feuille
FII 907/908		2 of 2
Drawing Set No./N° de série du dessin		
T-NPR-02		



NOTES

1. ELEVATIONS SHOWN ON PLAN HAVE BEEN SHORTENED FOR CLARITY AND REPRESENT AN ACTUAL ELEVATION OF 15XX.XX

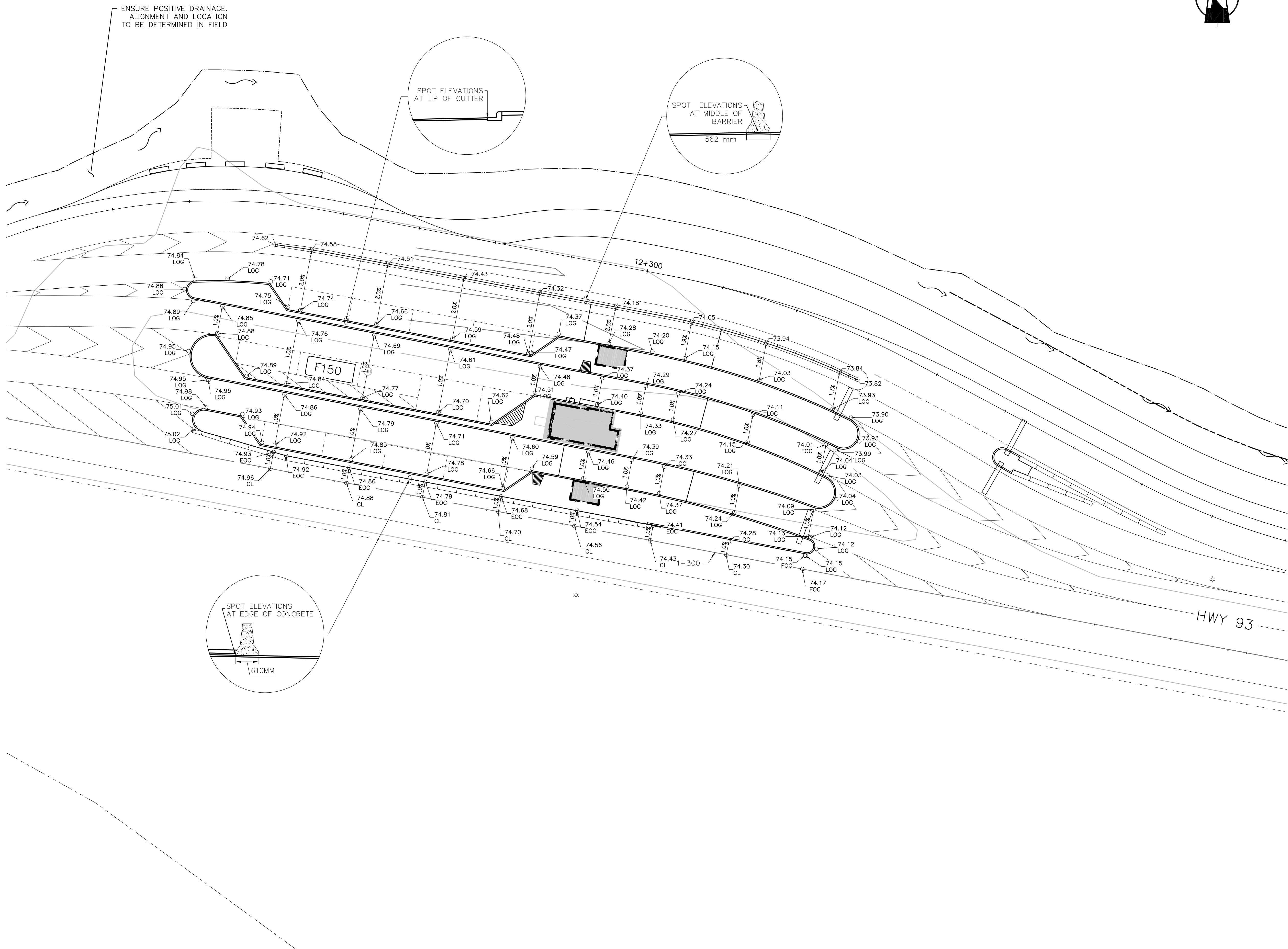
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A	2016/10/25	ISSUED FOR REVIEW	KL	WT
No.	Date	Description	Drawn by Dessine par	Approved Approuvé
Revision / Revision				
<div><div>A</div><div>B</div></div>		Detail number Sheet number	A Numéro de détail B Numéro de la feuille	
Linear dimensions In millimetres		Dimensions linéaires en millimètres		
Consultant's Name Nom de l'expert-conseil		Eng. Stamp Sceau de l'ingénieur		
<div><div></div><div>220, 48 Quarry Park Blvd SE CALGARY, ALBERTA T2C 5P2 PHONE: 403-269-7440 FAX: 403-269-7422 WWW.WSPGROUP.COM</div></div>		<div><div></div><div>PROFESSIONAL ENGINEER ALBERTA</div></div>		
<div><div></div><div>Strategic Asset Management, Western and Northern Region</div></div>		<div><div>Parcs Canada</div><div>Gestion Stratégique des Biens, Région de l'Ouest et du Nord</div></div>		
<div><div>Canada</div></div>				
<div><div>PERMIT TO PRACTICE MMM GROUP LIMITED PERMIT NUMBER: P 8845 The Association of Professional Engineers and Geoscientists of Alberta (APEGA)</div></div>				
Project title/Titre du projet				
ICEFIELDS PARKWAY GATE NIBLOCK GATE BANFF NATIONAL PARK, ALBERTA				
Drawing title/Titre du dessin				
GRADING AND PAVEMENT ELEVATIONS SHEET 1				
Surveyed by/Arpenté par		Drawn by/Dessiné par		Date
KL		AJ		2017/05/03
Designed by/Concept par		Reviewed by/Revisé par		Scale/Echelle
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Client Acceptance/Acceptation du client			Approved by/Approuvé par	
Date			Date	
Project No./Nº du projet		Asset No./Nº du bien		Sheet No./ Nº de la feuille
FI1 907/908				1 of 3
Drawing Set No./Nº de série du dessin				
T-NGP-01				



NOTES

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No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
Revision / Révision				
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 Sceau de l'ingénieur		
				
220, 48 Quarry Park Blvd SE CALGARY, ALBERTA T2C 5P2 PHONE: 403-269-7440 FAX: 403-269-7422 WWW.WSPGROUP.COM				
 Parks Canada		Parcs Canada		
Strategic Asset Management, Western and Northern Region		Gestion Stratégique des Biens, Région de l'Ouest et du Nord		
				
PERMIT TO PRACTICE MMM GROUP LIMITED PERMIT NUMBER: P 8845 The Association of Professional Engineers and Geoscientists of Alberta (APEGA)				
Project title/Titre du projet ICEFIELDS PARKWAY GATE NIBLOCK GATE BANFF NATIONAL PARK, ALBERTA				
Drawing title/Titre du dessin GRADING AND PAVEMENT ELEVATIONS SHEET 2				
Surveyed by/Arpenté par		Drawn by/Dessiné par		Date
KL		AJ		2017/05/03
Designed by/Concept par		Reviewed by/Révisé par		Scale/Echelle
KL		WT		1:500
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
FII 907/908				2 of 3
Drawing Set No./N° de série du dessin				
T-NGP-02				




- NOTES
1. ELEVATIONS SHOWN ON PLAN HAVE BEEN SHORTENED FOR CLARITY AND REPRESENT AN ACTUAL ELEVATION OF 15XX.XX

E	2017/05/03	ISSUED FOR TENDER	KL	WT
D	2017/03/22	REVISED 90% CLIENT REVIEW	KL	WT
C	2017/02/15	90% DRAWING SUBMISSION CLIENT REVIEW	AJ	WT
B	2016/12/07	75% DRAWING SUBMISSION CLIENT REVIEW	AJ	WT
A	2016/10/25	ISSUED FOR REVIEW	KL	WT
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé


Revision / Révision			
A B	Detail number	A Numéro de détail	
	Sheet number	B Numéro de la feuille	
Linear dimensions In millimètres		Dimensions linéaires en millimètres	


Consultant's Name
Nom de l'expert-conseil



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Eng. Stamp
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**PERMIT TO PRACTICE
MMM GROUP LIMITED
PERMIT NUMBER: P 8845**

The Association of Professional Engineers
and Geoscientists of Alberta (APEGA)

Project title/Titre du projet

**ICEFIELDS PARKWAY GATE
NIBLOCK GATE**

BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin

**GRADING AND PAVEMENT ELEVATIONS
SHEET 3**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
KL	AJ	2017/05/03
Designed by/Concept par	Reviewed by/Révisé par	Scale/Echelle
KL	WT	1:250
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
FII 907/908		3 of 3
Drawing Set No./N° de série du dessin		
T-NGP-03		

Diagram illustrating the cross-section of a pavement widening project. The diagram shows the existing pavement structure and the new pavement structure to be added.

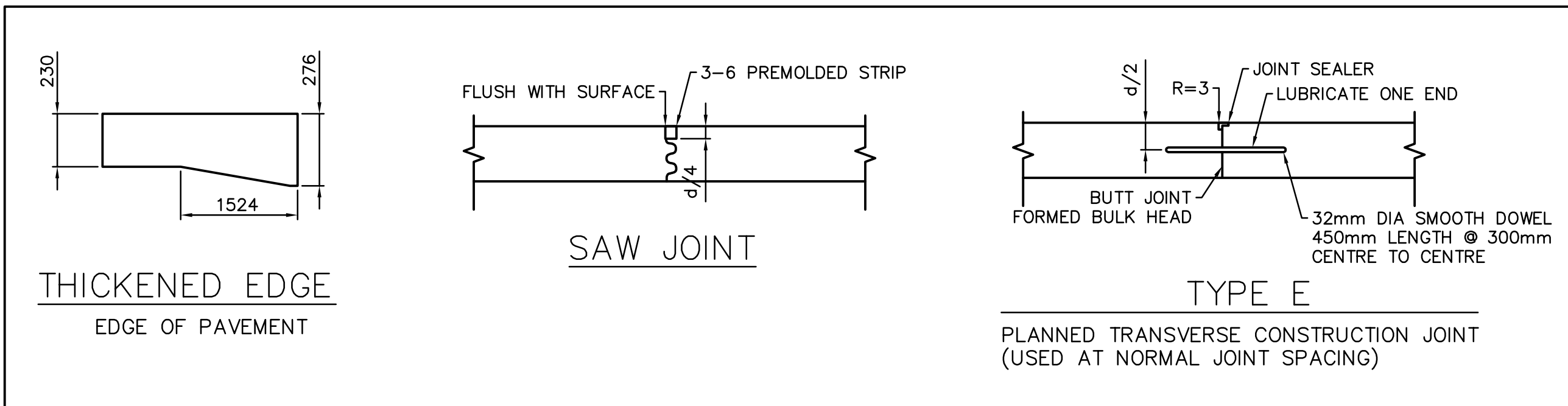
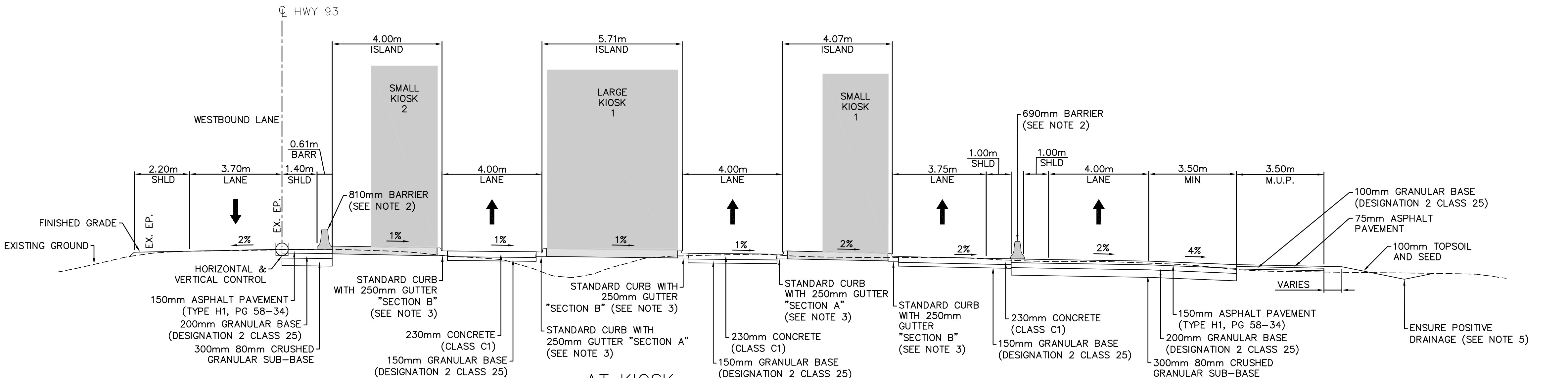
EXISTING PAVEMENT: EXISTING ASPHALT

NEW PAVEMENT STRUCTURE:

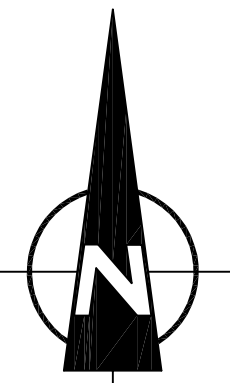
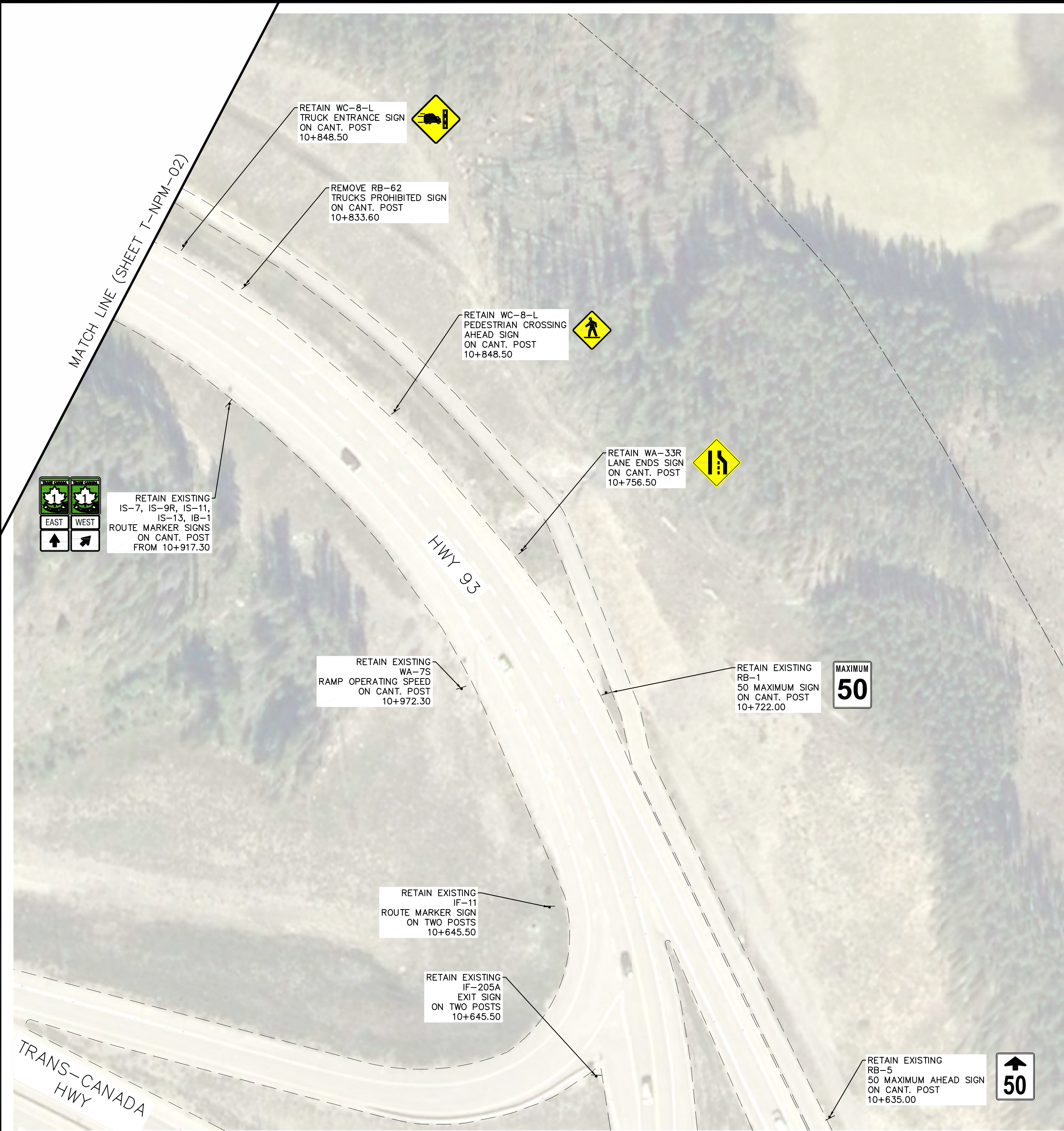
- 150mm ACP
- 200mm 25mm GBC
- 300mm 80mm SGSB

Dimensions and Labels:

- EX LANE
- EX SHLD
- WIDENING VARIES
- 0.3m MIN. SAW CUT
- VARIES
- BENCHING 150mm AS REQUIRED
- PLACE AND COMPACT SUBGRADE AS REQUIRED



Project title/Titre du projet <h1 style="margin: 0;">ICEFIELDS PARKWAY GATE</h1> <h1 style="margin: 0;">NIBLOCK GATE</h1> <h2 style="margin: 0;">BANFF NATIONAL PARK, ALBERTA</h2>			
Drawing title/Titre du dessin <h2 style="margin: 0;">TYPICAL SECTIONS</h2> <h2 style="margin: 0;">SHEET 1</h2>			
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Designed by/Concept par <div style="border: 1px solid black; height: 20px; width: 100%; text-align: center;">KL</div>	Reviewed by/Revisé par <div style="border: 1px solid black; height: 20px; width: 100%; text-align: center;">WT</div>	Scale/Echelle <div style="border: 1px solid black; height: 20px; width: 100%; text-align: center;">NTS</div>	
Client Acceptance/Acceptation du client <div style="border: 1px solid black; height: 20px; width: 100%;"></div>		Approved by/Approuvé par <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	
Date <div style="border: 1px solid black; height: 20px; width: 100%;"></div>		Date <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	
Project No./N° du projet <div style="border: 1px solid black; height: 20px; width: 100%; text-align: center;">FII 907/908</div>	Asset No./N° du bien <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	Sheet No./N° de la feuille <div style="border: 1px solid black; height: 20px; width: 100%; text-align: center;">1 of 1</div>	
Drawing Set No./N° de série du dessin <div style="border: 1px solid black; height: 20px; width: 100%; text-align: center;">T-NTS-01</div>			




NOTES

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No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Révision

<div><div>A</div><div>B</div></div>	Detail number Sheet number	A Numéro de détail B Numéro de la feuille
Linear dimensions In millimètres		Dimensions linéaires en millimètres

Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
 220, 48 Quarry Park Blvd SE CALGARY, ALBERTA T2C 5P2 PHONE: 403-269-7440 FAX: 403-269-7422 WWW.WSPGROUP.COM	

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Strategic Asset Management, Western and Northern Region	Gestion Stratégique des Biens, Région de l'Ouest et du Nord

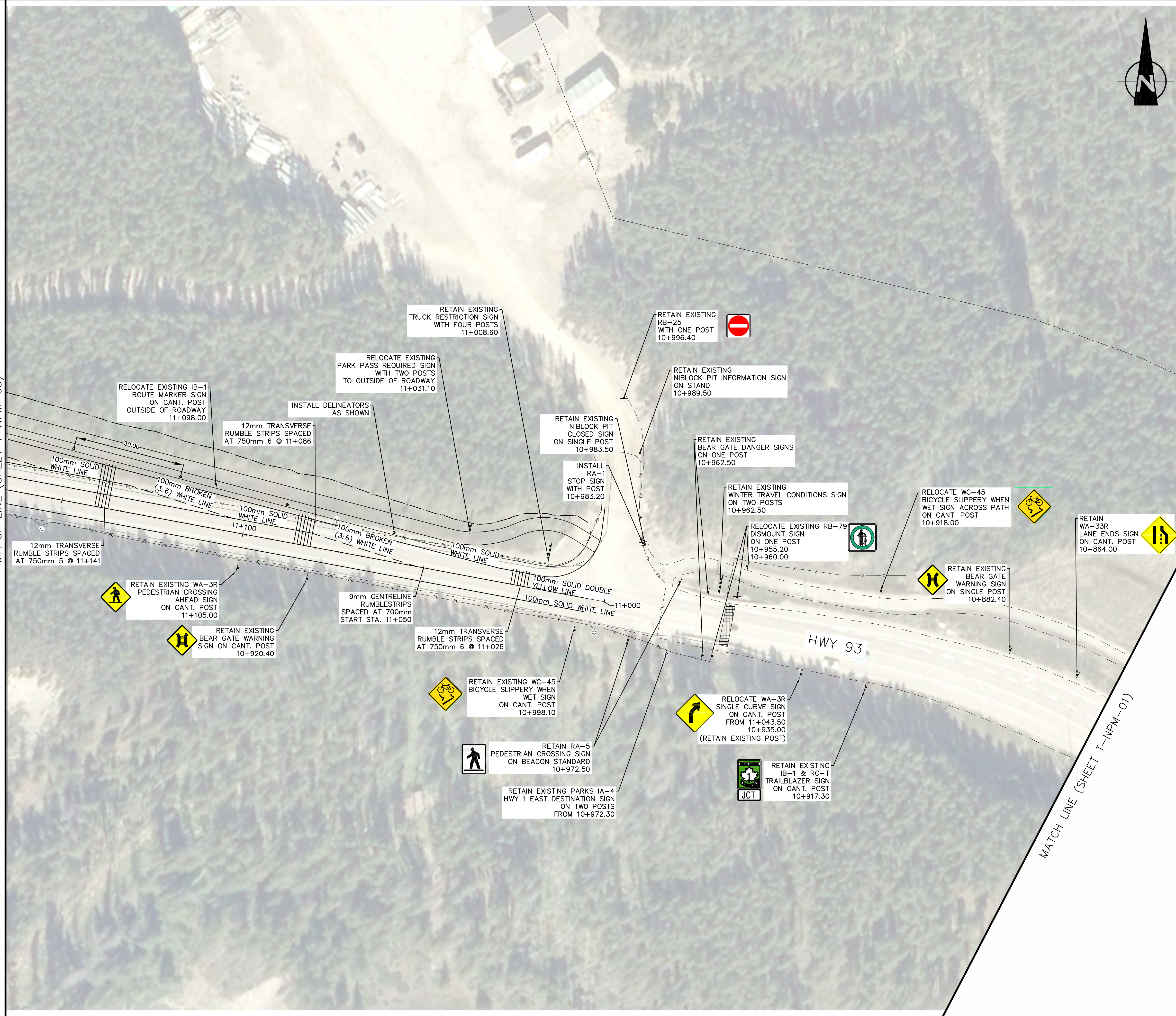
Canada

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The Association of Professional Engineers
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Project title/Titre du projet
ICEFIELDS PARKWAY GATE NIBLOCK GATE BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin
PAVEMENT MARKING AND SIGNAGE SHEET 1

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
KL	AJ	2017/05/03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
KL	WT	1:500
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet	Asset No./Nº du bien	Sheet No./Nº de la feuille
FII 907/908		1 of 4
Drawing Set No./Nº de série du dessin		
T-NPM-01		

Canada 

Drawing Set No./N° de serie du dessin		2 of 4
T-NPM-02		



MATCH LINE (SHEET T-NPM-04)




MATCH LINE (SHEET T-NPM-02)


- NOTES
1. SEE SHEET T-MD-04 FOR RUMBLE STRIP DETAILS.
 2. NEW AND RELOCATED SIGNS TO BE INSTALLED ON NEW POSTS.

E	2017/05/03	ISSUED FOR TENDER	KL	WT
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Revision / Révision			
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Consultant's Name Nom de l'expert-conseil		Eng. Stamp Sceau de l'ingénieur	
			
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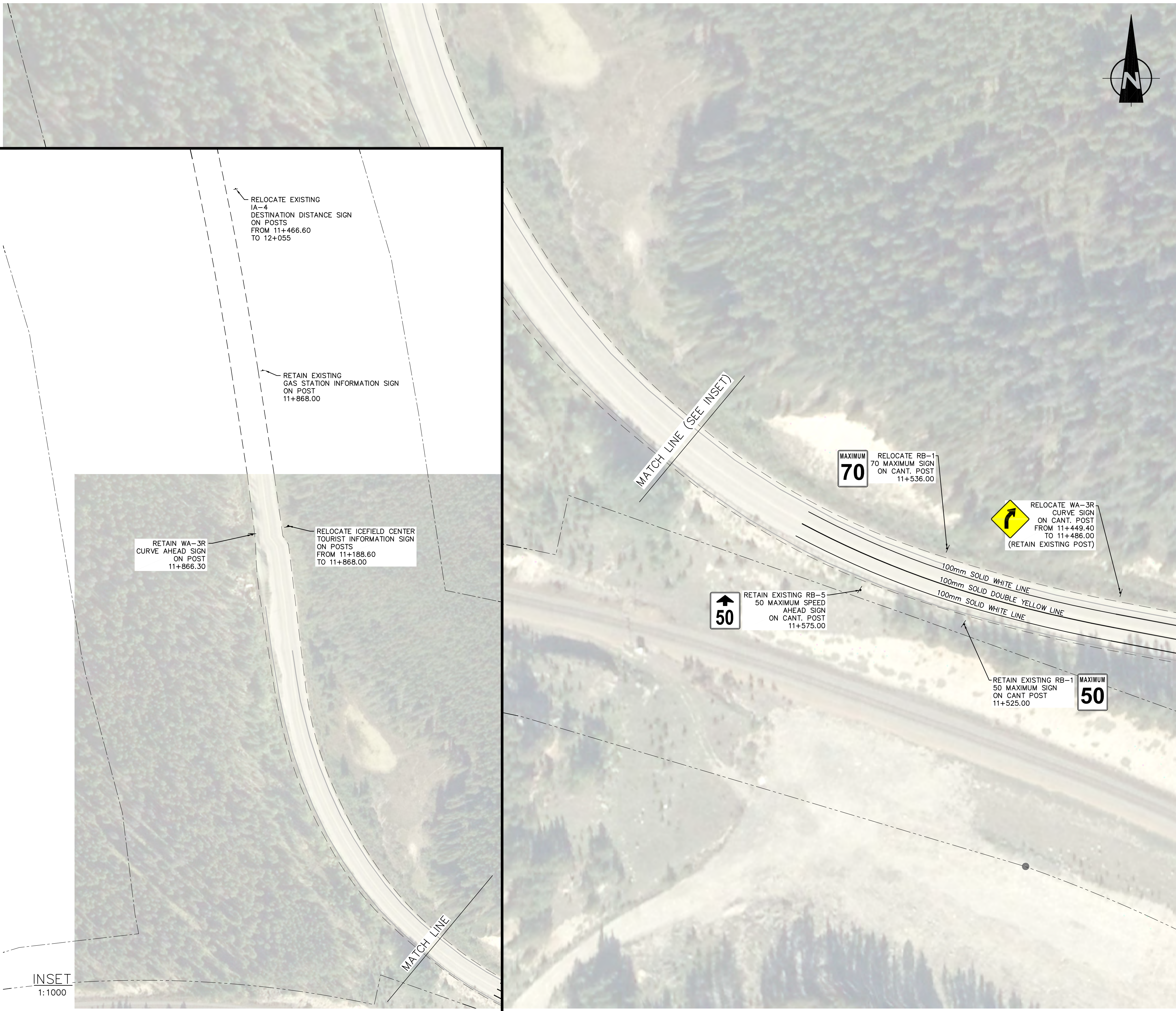
Project title/Titre du projet

ICEFIELDS PARKWAY GATE
NIBLOCK GATE
BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin

PAVEMENT MARKING AND SIGNAGE
SHEET 3

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
KL	AM	2017/05/03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
KL	WT	1:500
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Date		Date
Project No./N° du projet	Asset No./N° du bien	Sheet No./N° de la feuille
FII 907/908		3 of 4
Drawing Set No./N° de série du dessin		
T-NPM-03		



MATCH LINE (T-NPM-03)

- NOTES
1. SEE SHEET T-MD-04 FOR RUMBLE STRIP DETAILS.
 2. NEW AND RELOCATED SIGNS TO BE INSTALLED ON NEW POSTS.

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Revision / Révision

A

B

Detail number
Sheet number

A Numéro de détail
B Numéro de la feuille

Linear dimensions
In millimètres

Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil

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Project title/Titre du projet

ICEFIELDS PARKWAY GATE
NIBLOCK GATE
BANFF NATIONAL PARK, ALBERTA

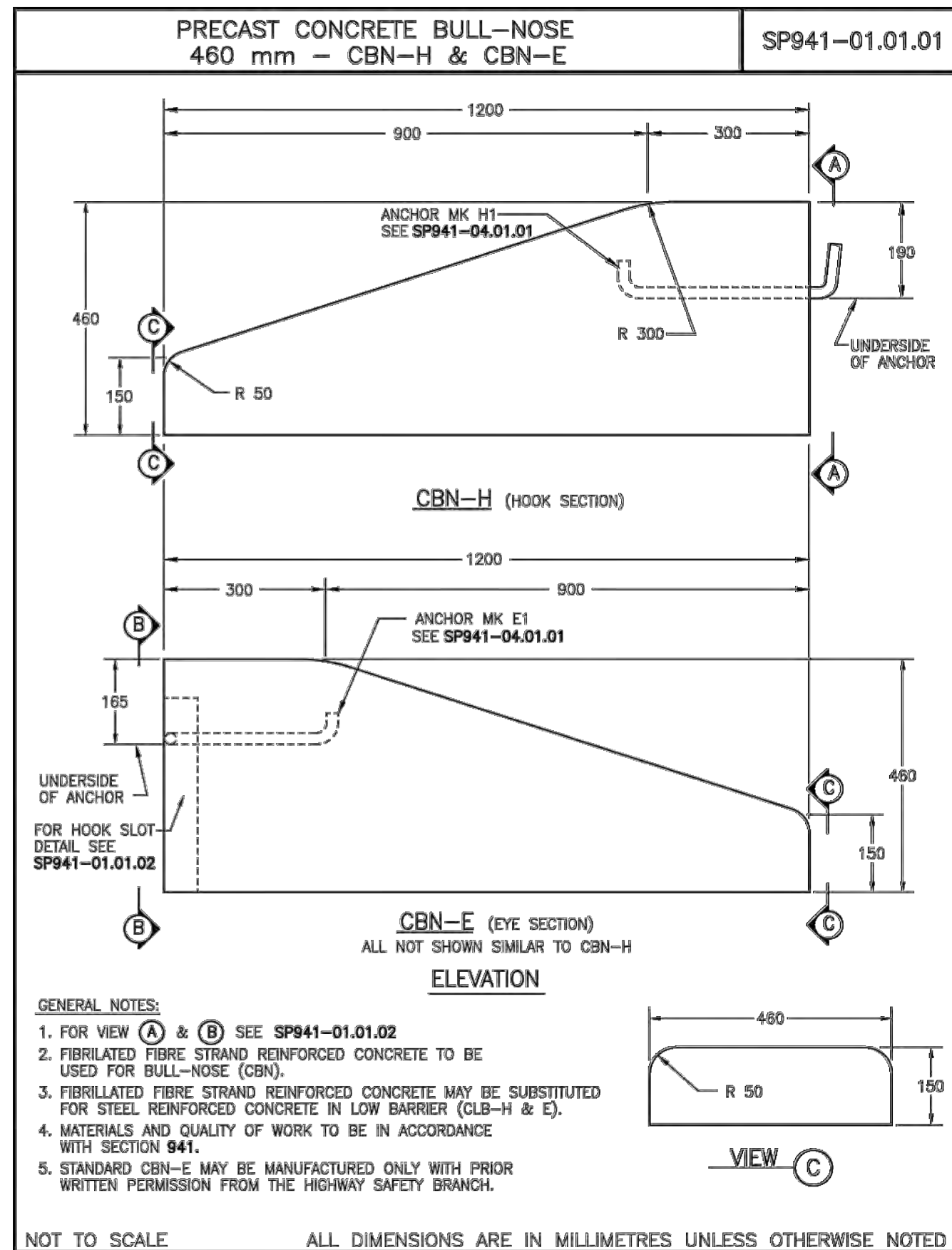
Drawing title/Titre du dessin

PAVEMENT MARKING AND SIGNAGE
SHEET 4

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Date		Date
Project No./Nº du projet	Asset No./Nº du bien	Sheet No./ Nº de la feuille
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Drawing Set No./Nº de série du dessin		
T-NPM-04		

SECTION 941

PRECAST REINFORCED CONCRETE BARRIERS



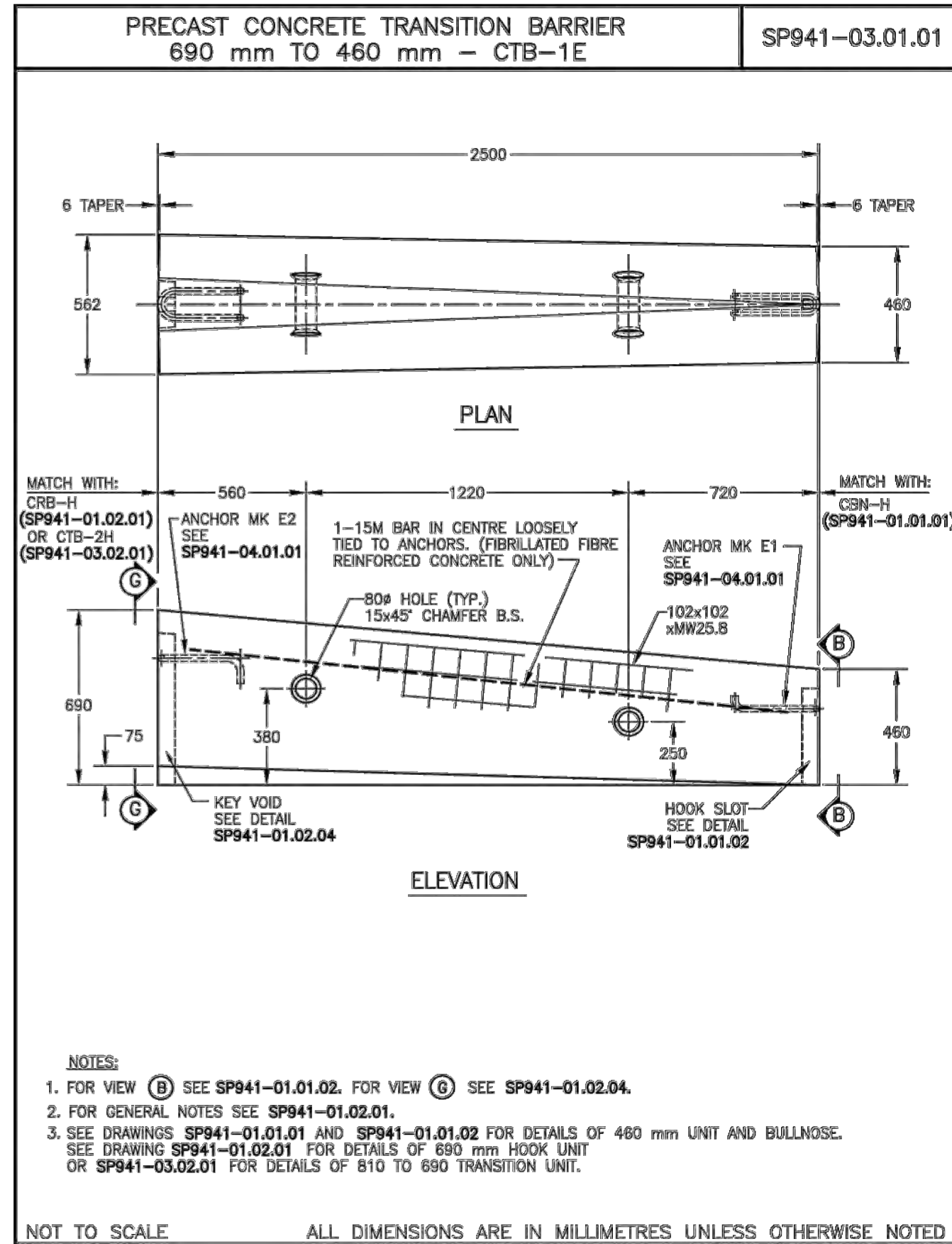
BC MoT

2016

941 (3 of 30)

SECTION 941

PRECAST REINFORCED CONCRETE BARRIERS



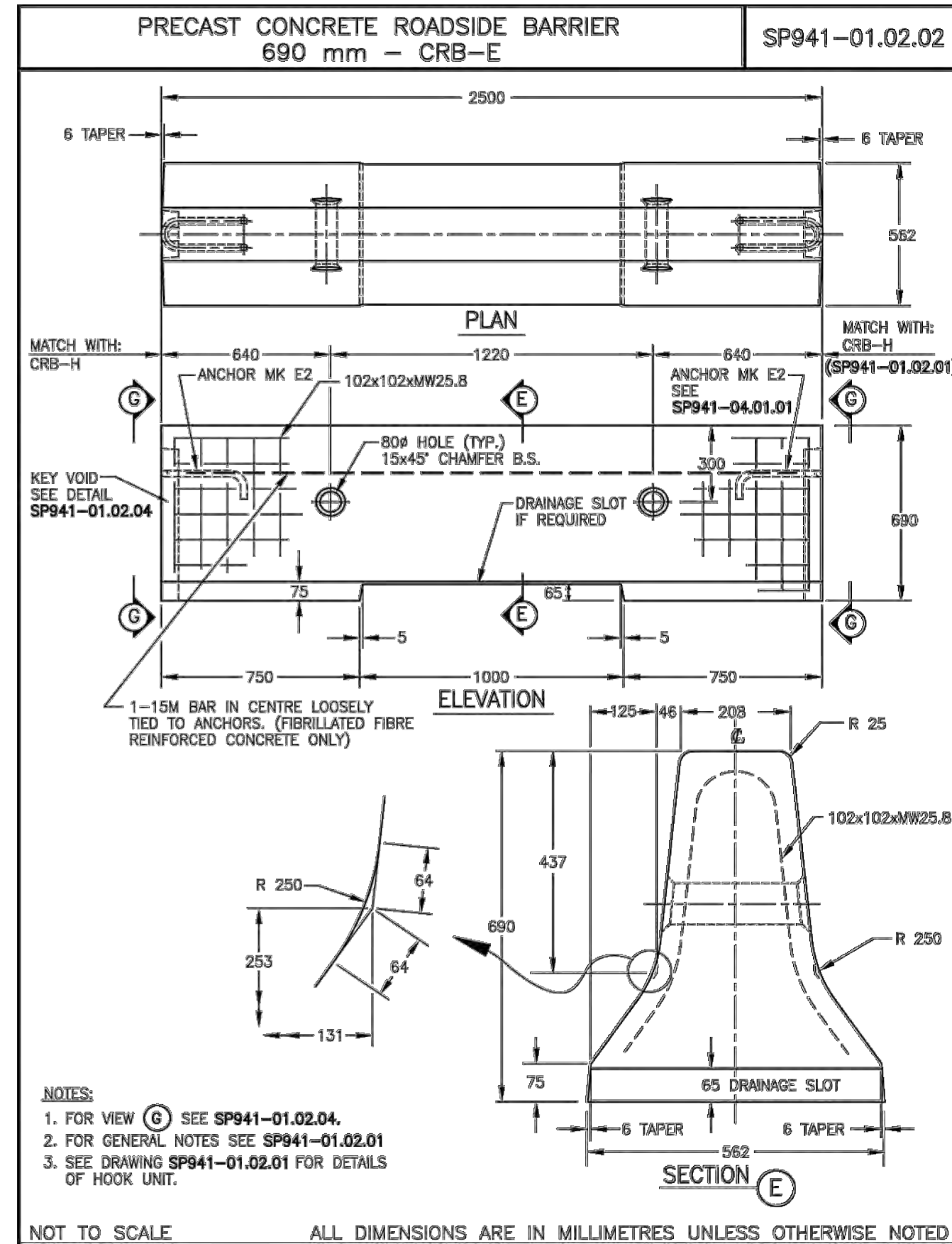
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2016

BC MoT

SECTION 941

PRECAST REINFORCED CONCRETE BARRIERS



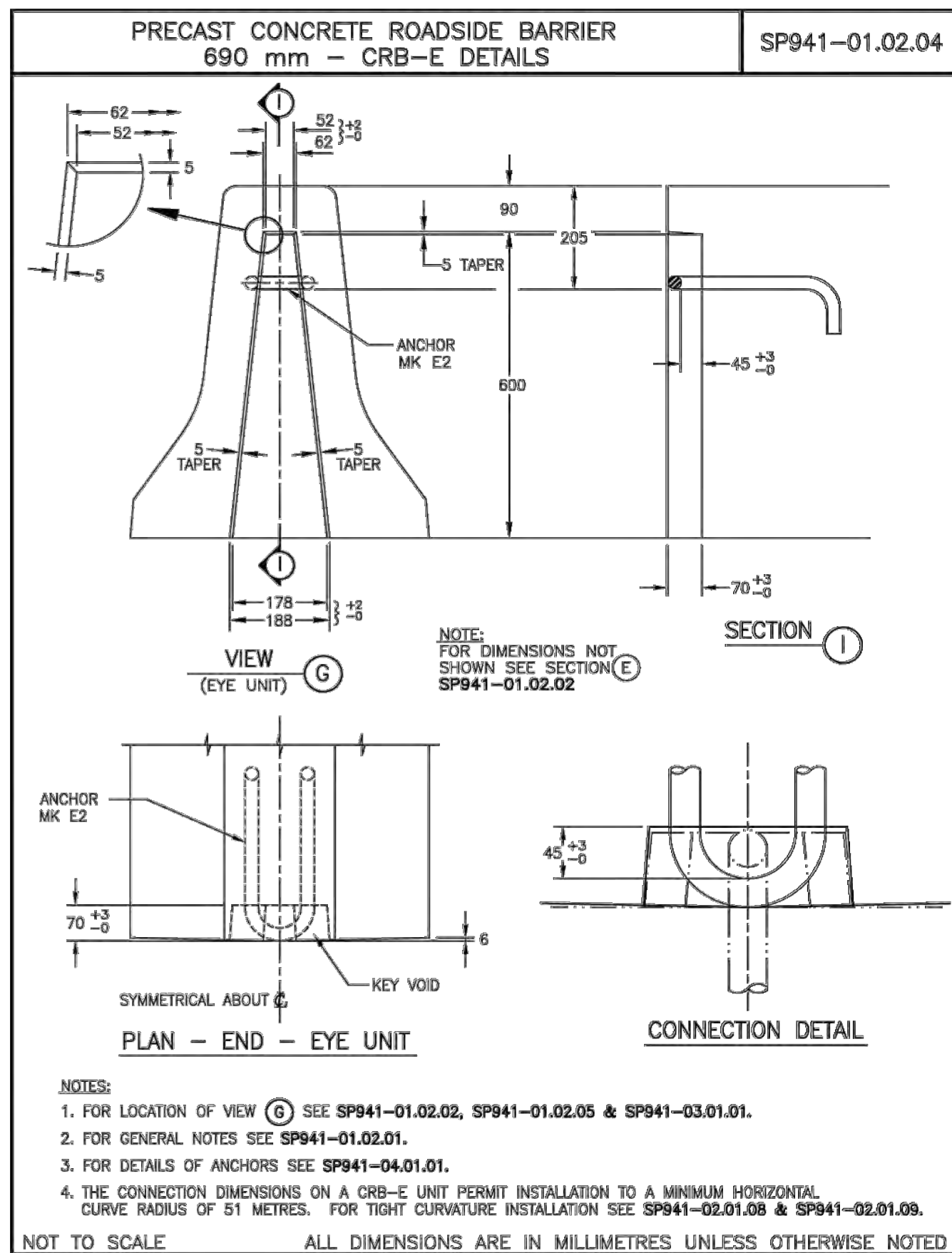
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2016

BC MoT

SECTION 941

PRECAST REINFORCED CONCRETE BARRIERS



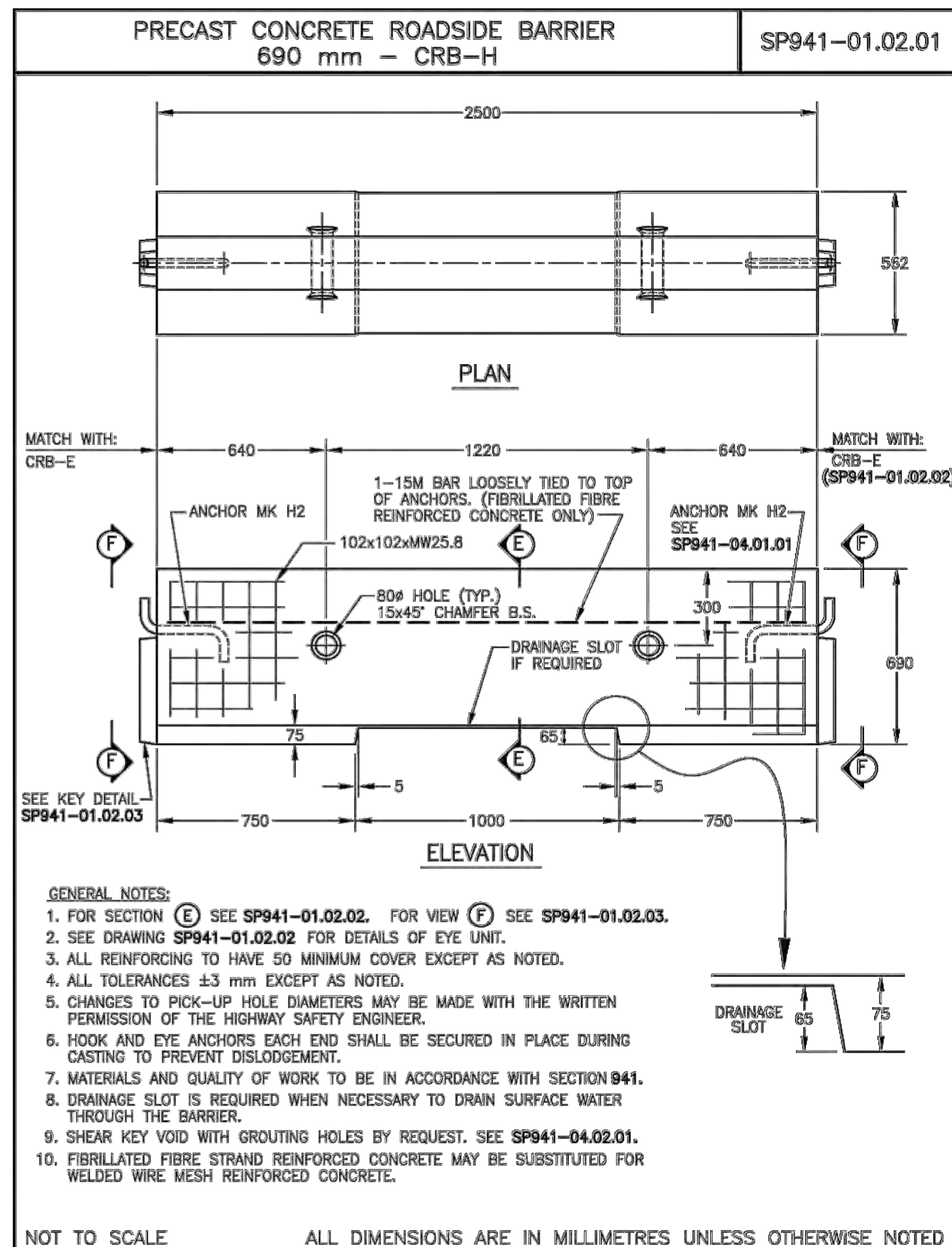
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2016

BC MoT

SECTION 941

PRECAST REINFORCED CONCRETE BARRIERS



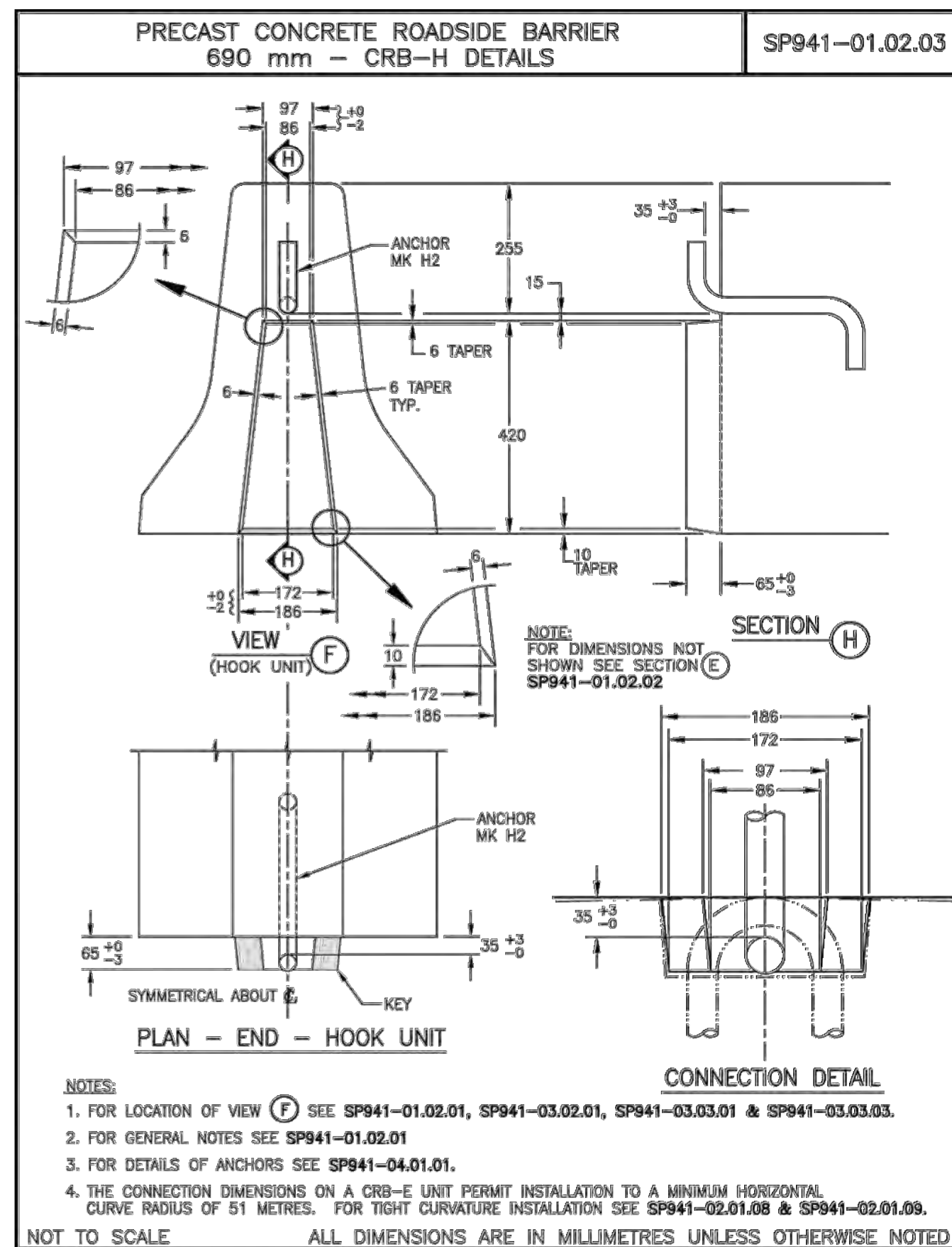
BC MoT

2016

941 (5 of 30)

SECTION 941

PRECAST REINFORCED CONCRETE BARRIERS



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2016

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NOTES

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D	2017/03/22	REVISED 90% CLIENT REVIEW	KL	WT
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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
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Consultant's Name
Nom de l'expert-conseil

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PERMIT TO PRACTICE
MMM GROUP LIMITED
PERMIT NUMBER: P 8845
The Association of Professional Engineers
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Project title/Titre du projet

ICEFIELDS PARKWAY GATE

NIBLOCK & DAVID THOMPSON HIGHWAY GATE

BANFF NATIONAL PARK, ALBERTA

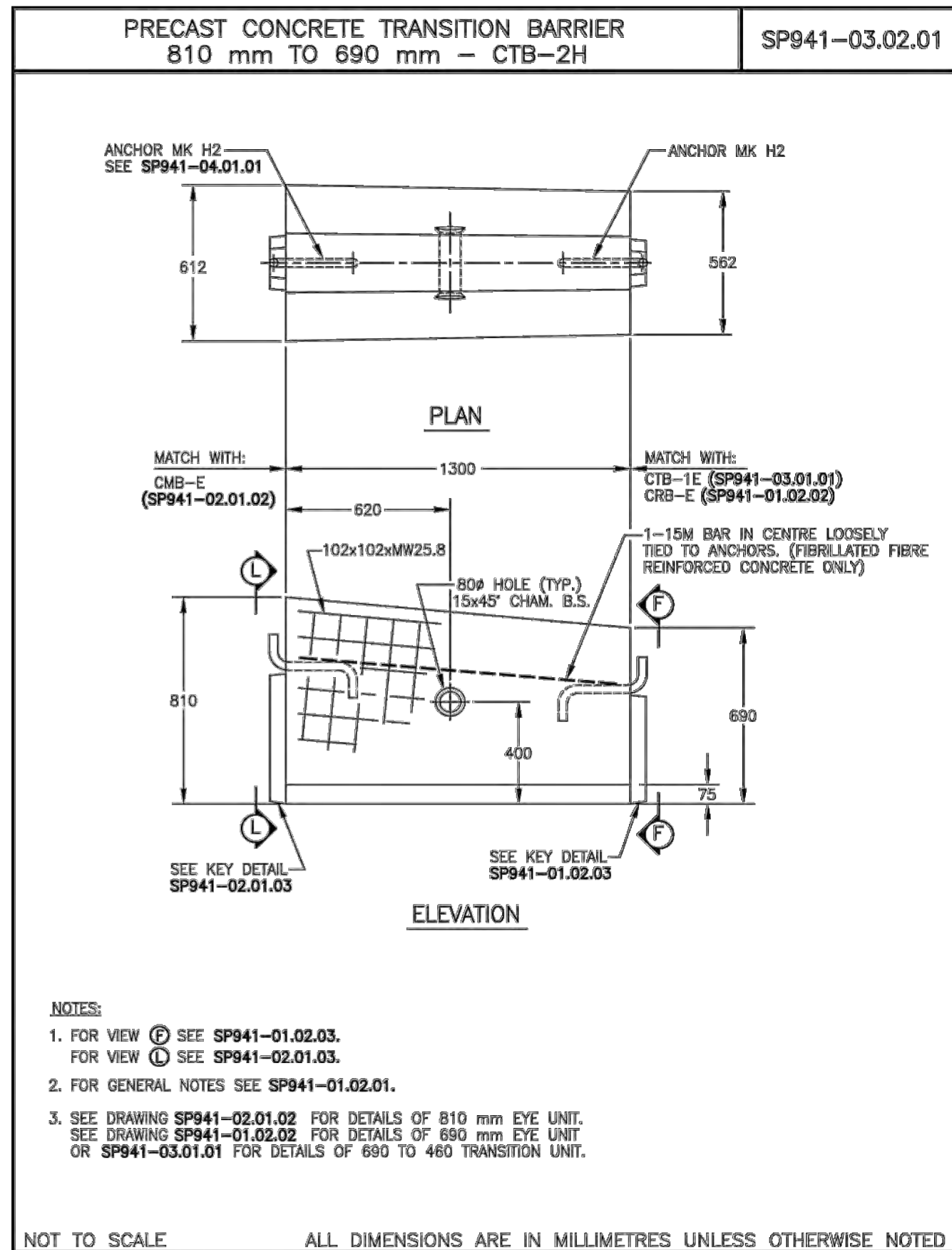
Drawing title/Titre du dessin

MISCELLANEOUS DETAILS
SHEET 1

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
	RB	2017/05/03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
	WT	NTS

Client Acceptance/Acceptation du client	Approved by/Approuvé par

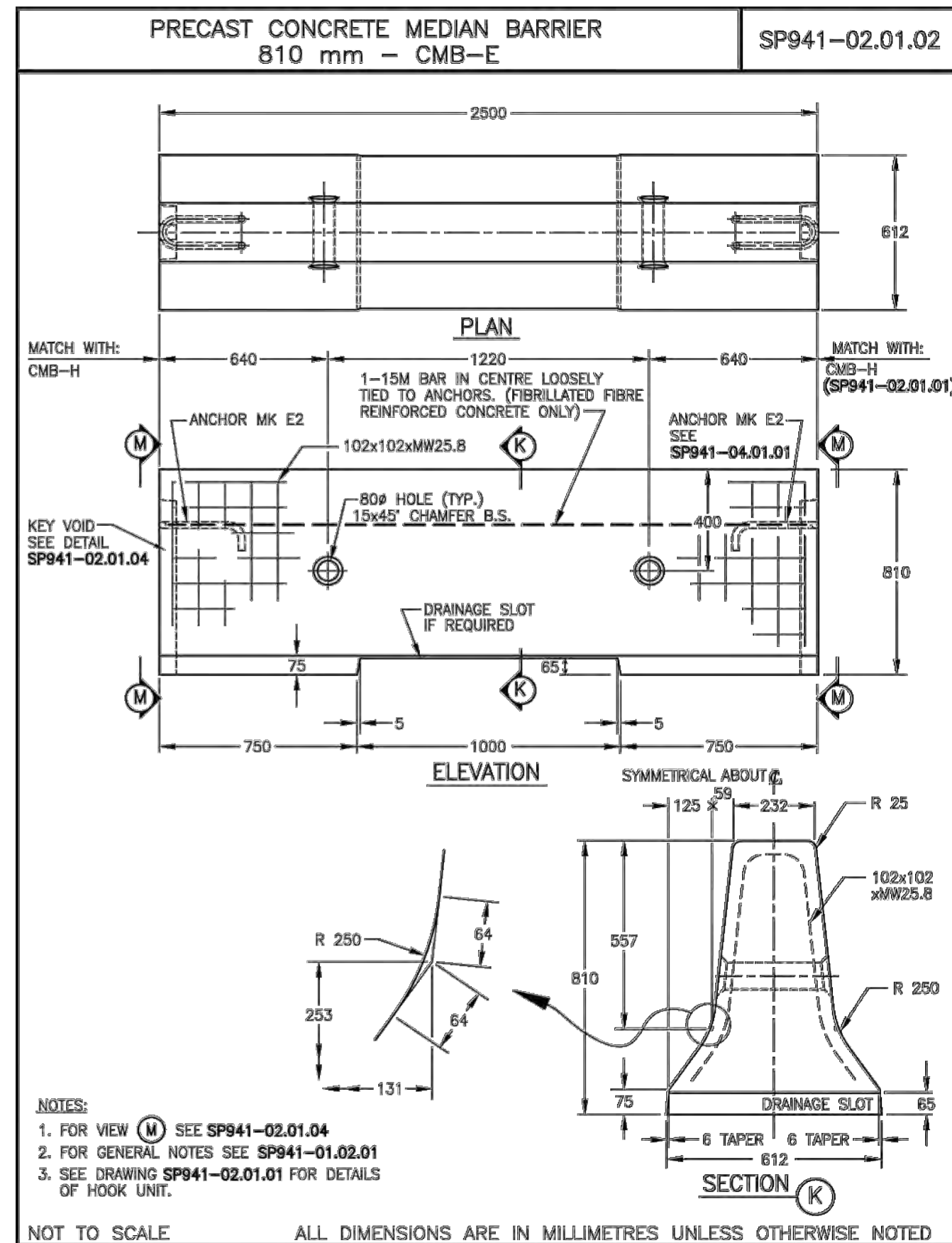
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FII 907/908		1 of 4
Drawing Set No./N° de série du dessin		
T-MD-01		



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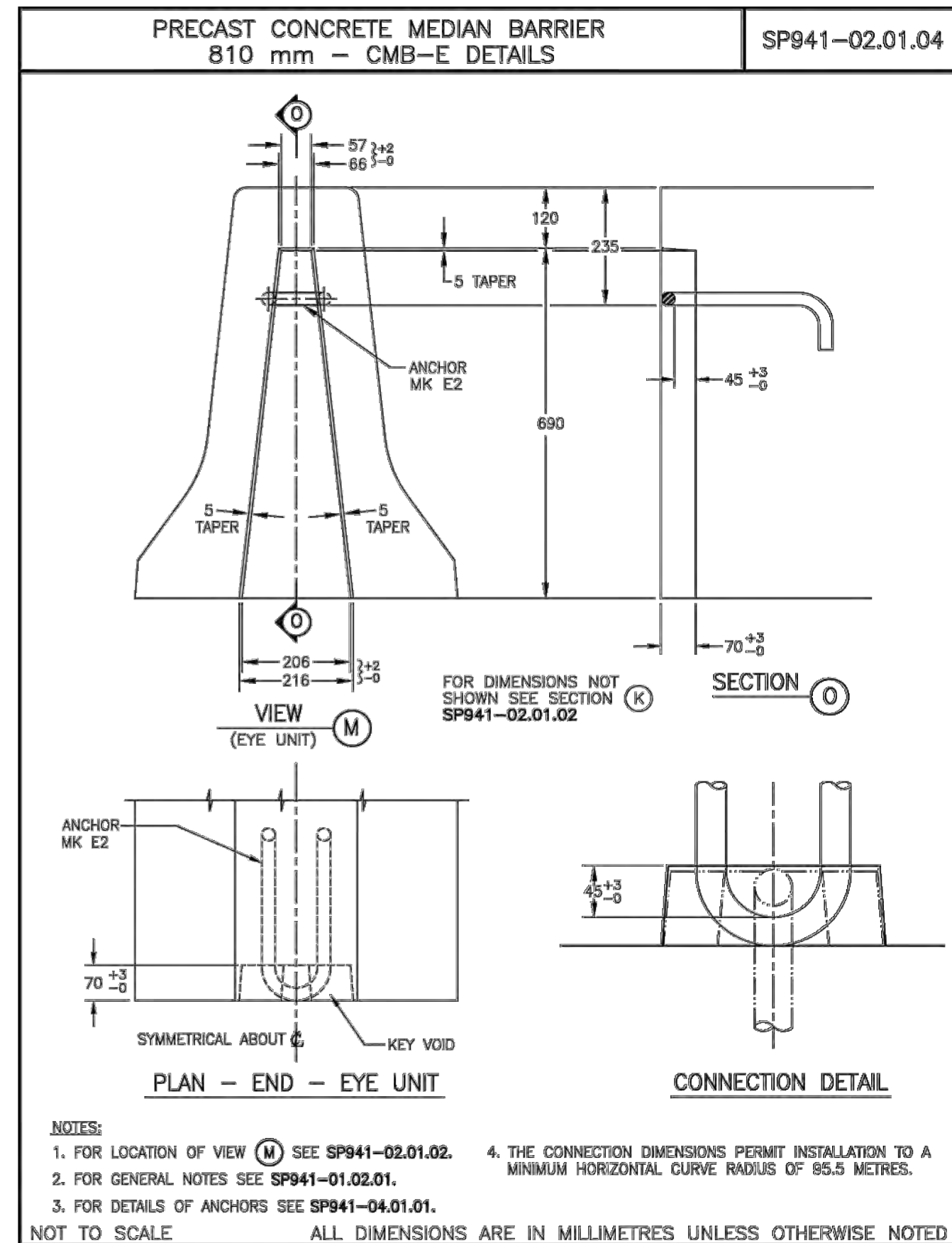
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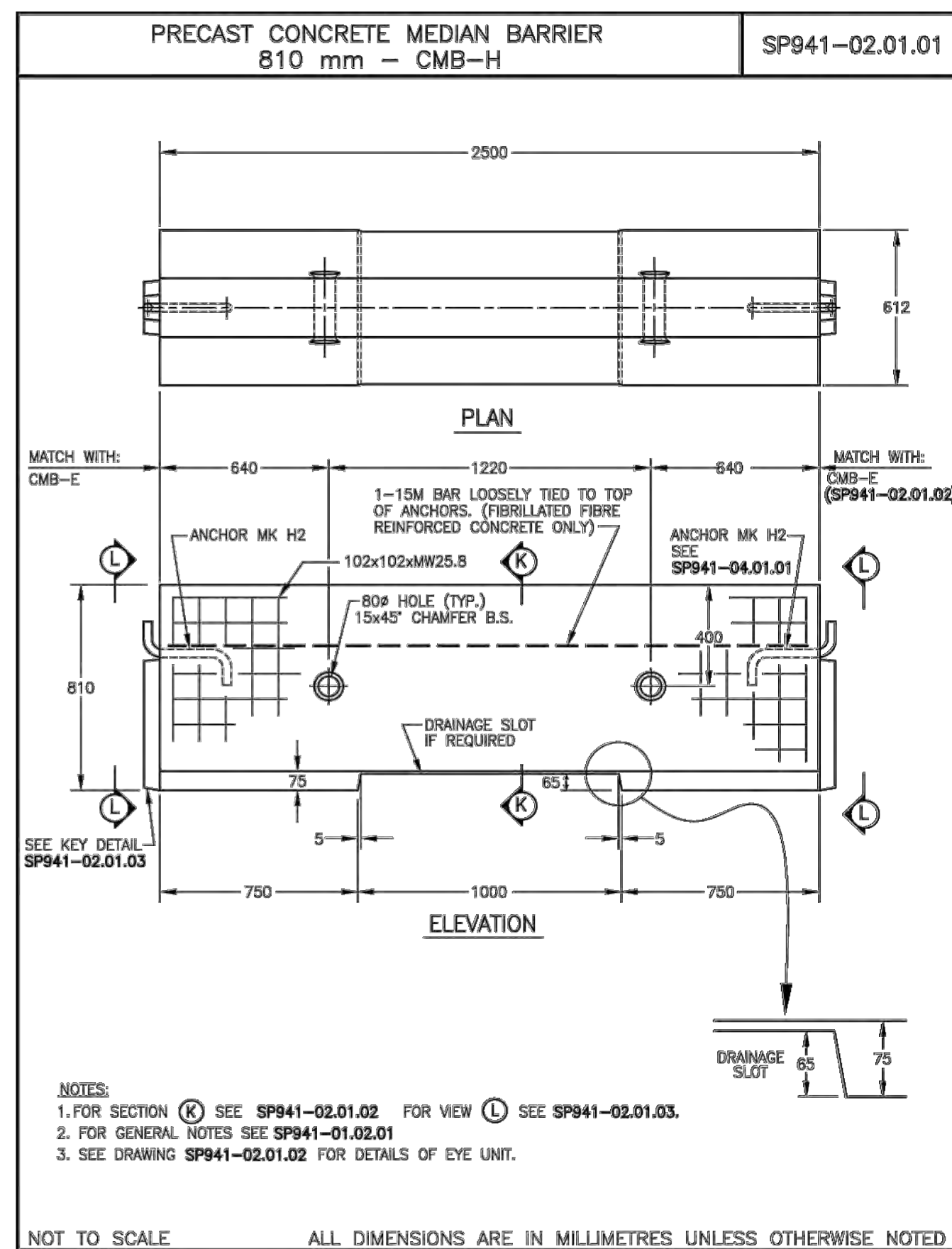
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2016

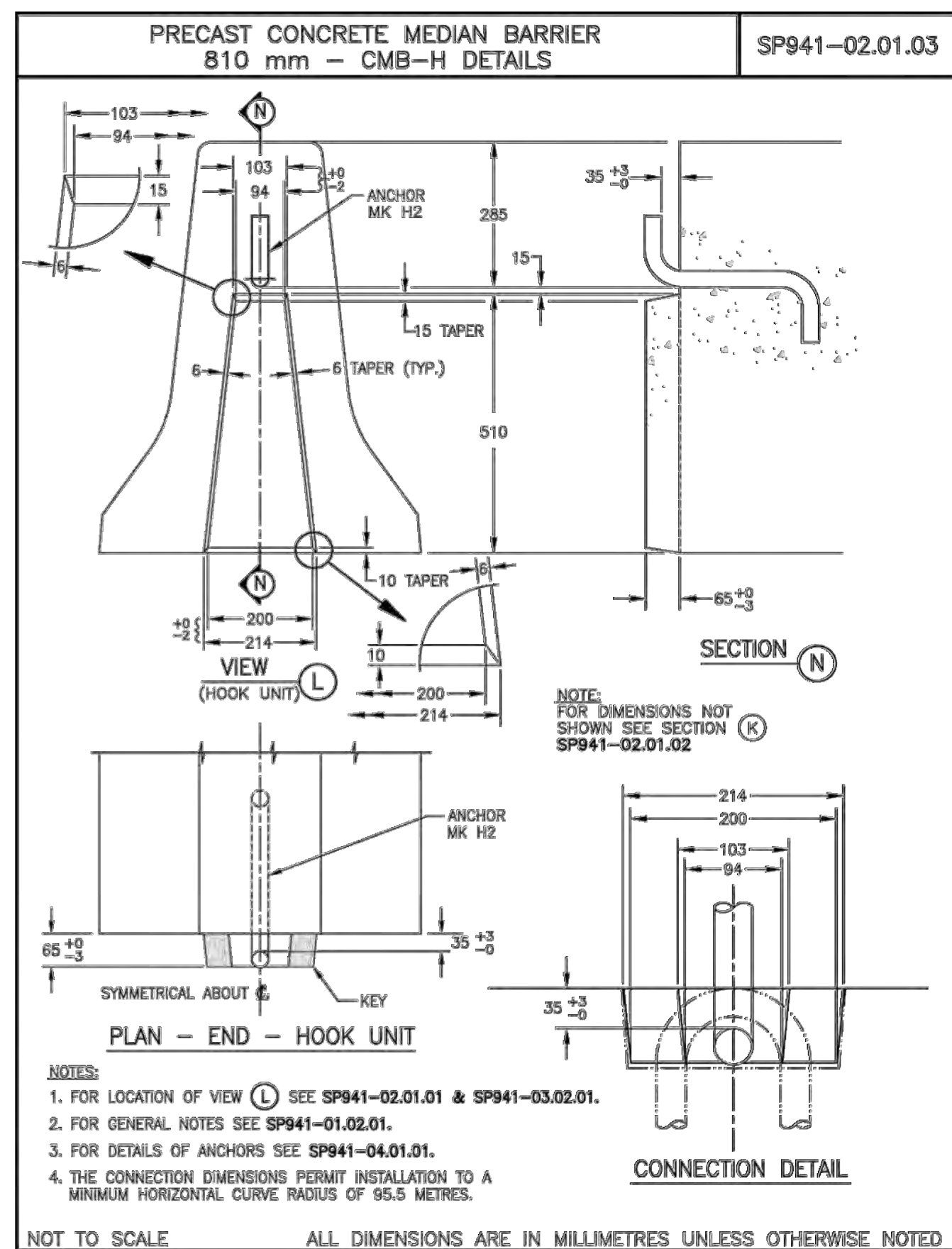
941 (13 of 30)



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2016

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2016

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E	2017/05/03	ISSUED FOR TENDER	KL	WT
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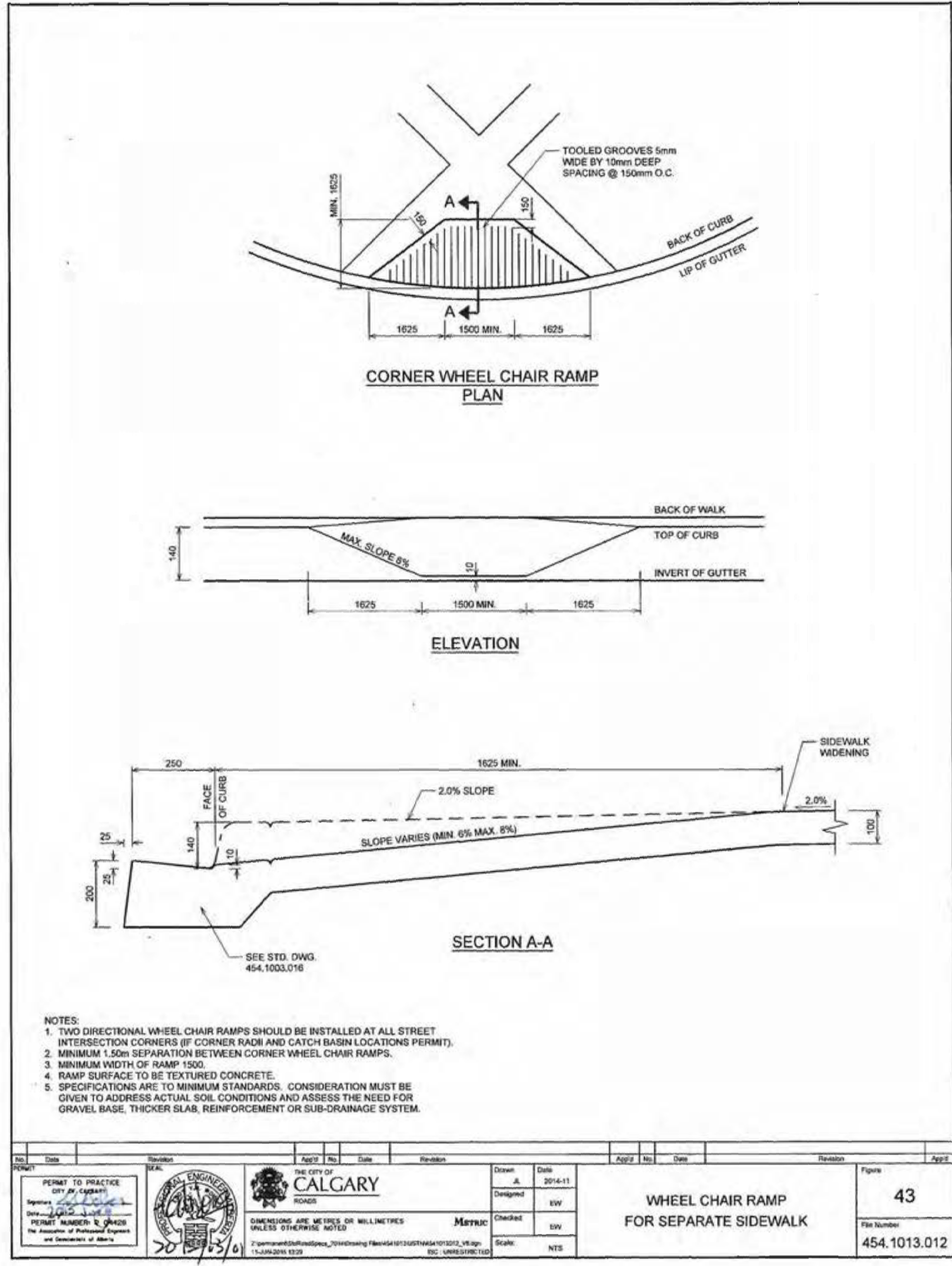
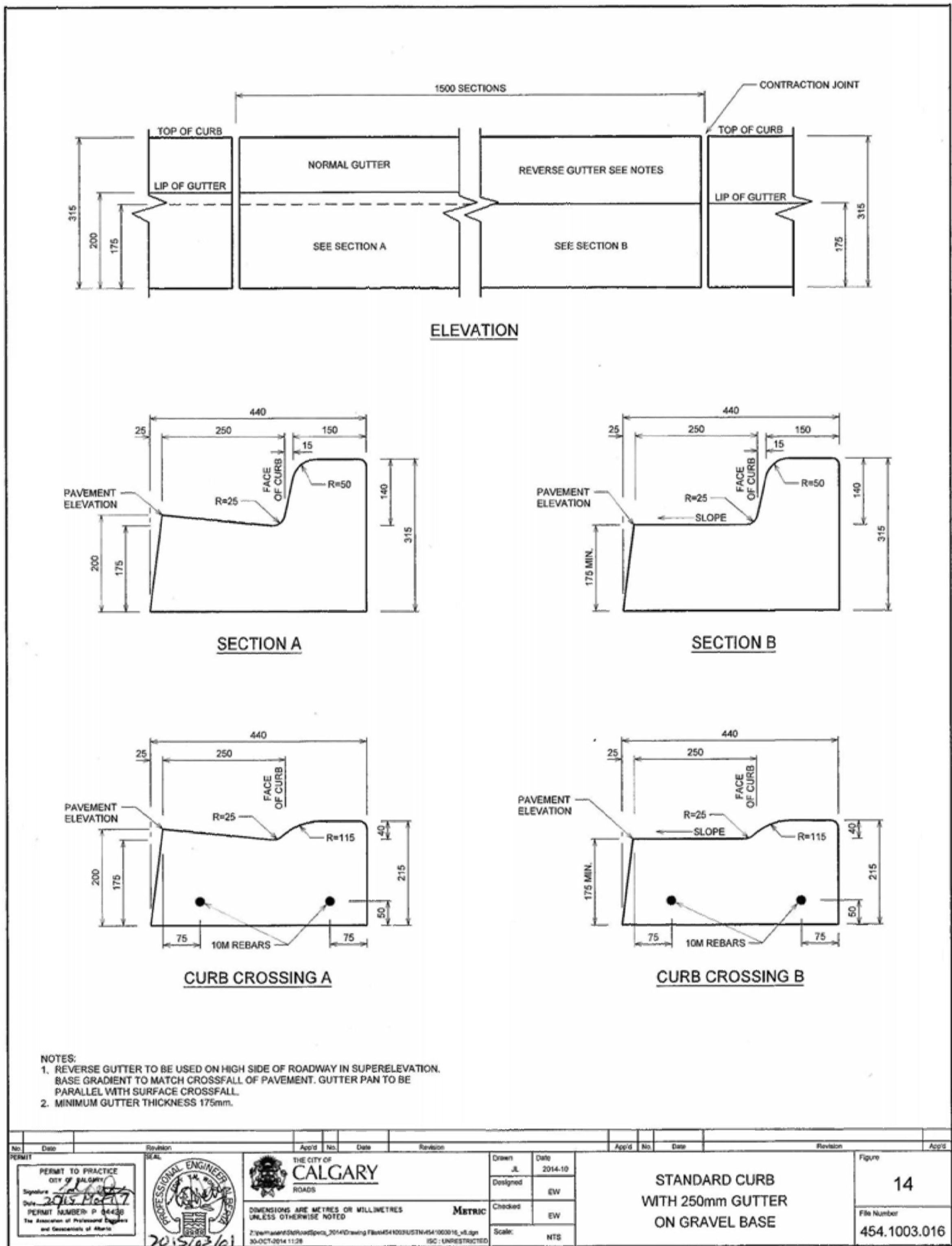
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ICEFIELDS PARKWAY GATE
NIBLOCK & DAVID THOMPSON HIGHWAY GATE
BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin

MISCELLANEOUS DETAILS
SHEET 2

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
Date		Date
Project No./N° du projet	Asset No./N° du bien	Sheet No./N° de la feuille
FII 907/908		2 of 4
Drawing Set No./N° de série du dessin		
T-MD-02		



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Revision / Revision		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	
WSP		WSP		Eng. Stamp Sceau de l'ingénieur	
220, 48 Quarry Park Blvd SE CALGARY, ALBERTA T2C 5P2 PHONE: 403-269-7440 FAX: 403-269-7422 WWW.WSPGROUP.COM		PROFESSIONAL ENGINEER ALBERTA			

Parcs Canada	Parcs Canada
Strategic Asset Management, Western and Northern Region	Gestion Stratégique des Biens, Région de l'Ouest et du Nord

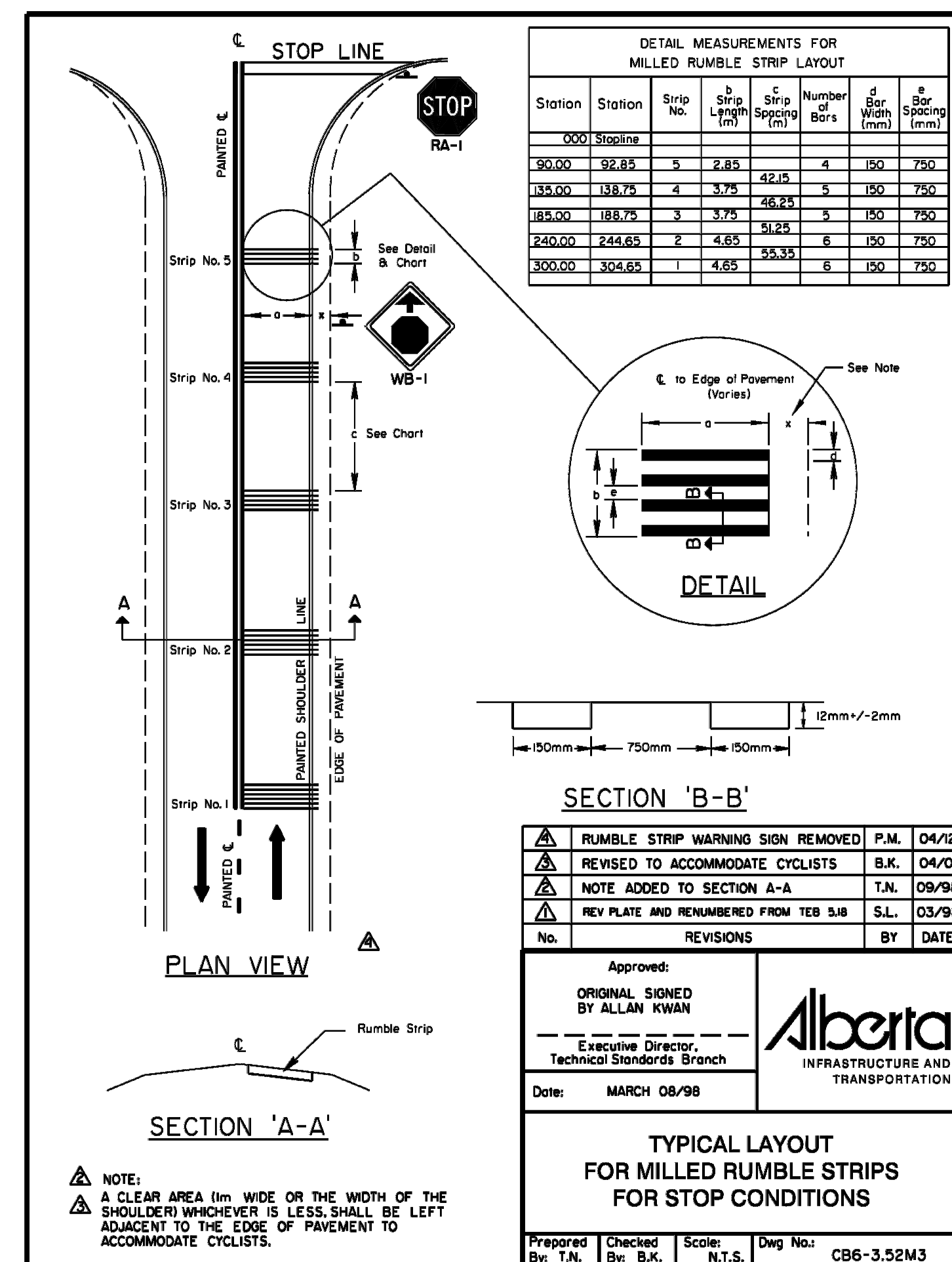
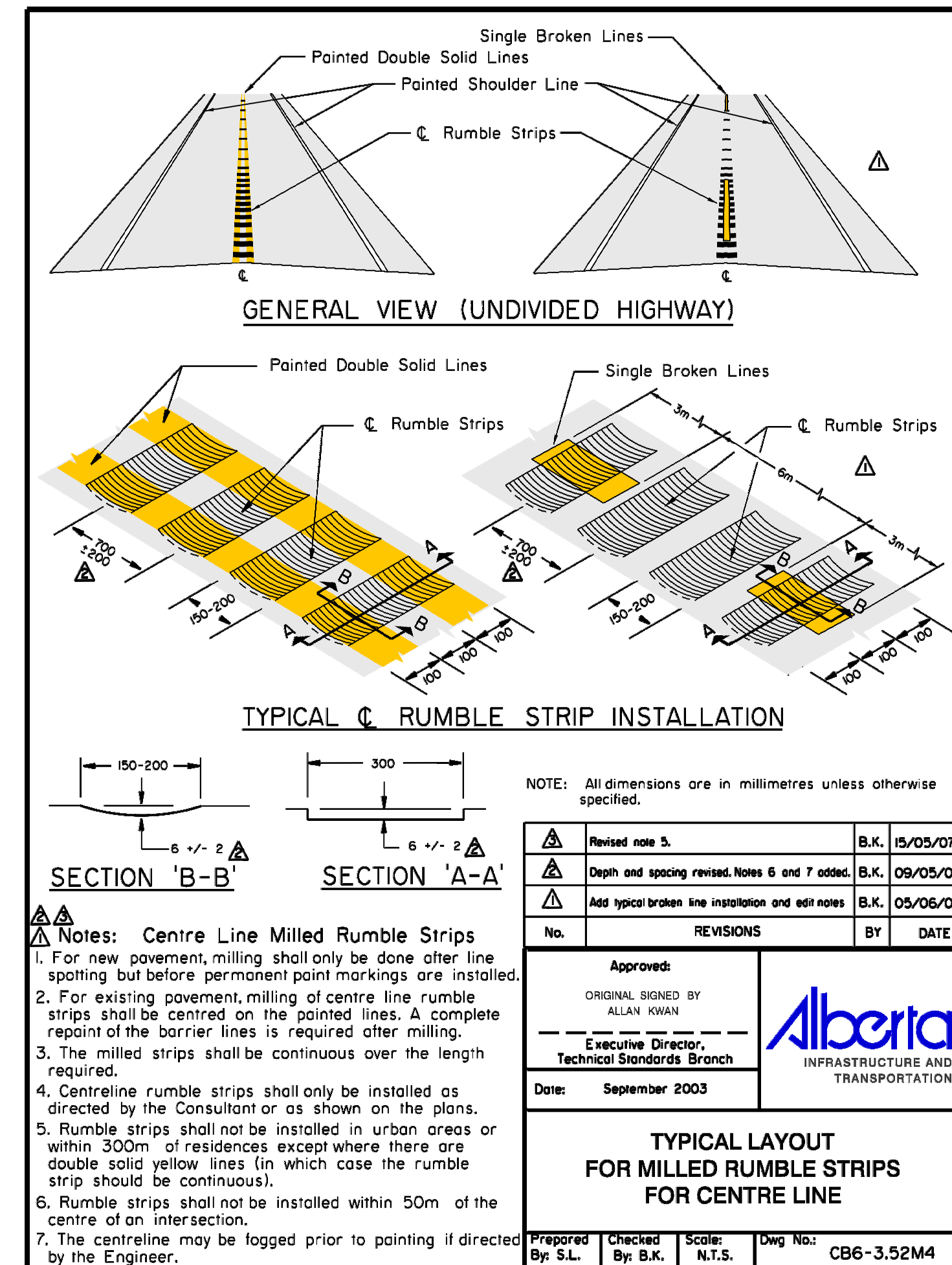
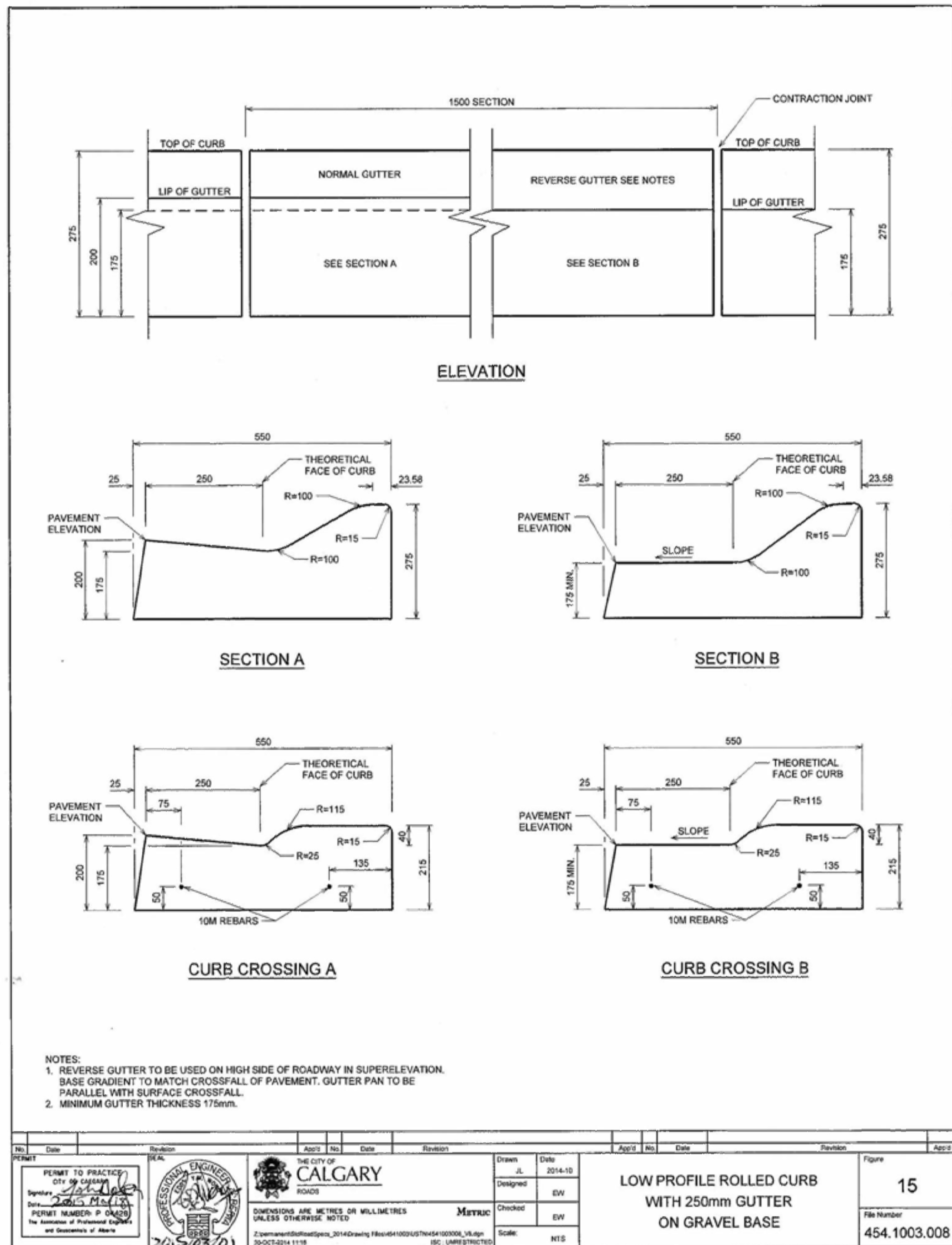
Canada

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Project title/Titre du projet
ICEFIELDS PARKWAY GATE
NIBLOCK & DAVID THOMPSON HIGHWAY GATE
BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin
MISCELLANEOUS DETAILS
SHEET 3

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
	RB	2017/05/03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
	WT	NTS
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FII 907/908		3 of 4
Drawing Set No./N° de série du dessin		
T-MD-03		



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No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision		A Numéro de détail B Numéro de la feuille	
Detail number Sheet number		Linear dimensions in millimetres	
Dimensions linéaires en millimètres		Consultant's Name Nom de l'expert-conseil	
Eng. Stamp Sceau de l'ingénieur		Professional Engineer Ingénieur Professionnel	

Canada

Strategic Asset Management, Western and Northern Region

Gestion Stratégique des Biens, Région de l'Ouest et du Nord

PERMIT TO PRACTICE
MMM GROUP LIMITED
PERMIT NUMBER: P 8845
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

Project title/Titre du projet

ICEFIELDS PARKWAY GATE

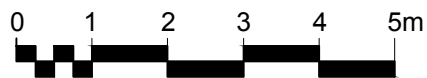
NIBLOCK & DAVID THOMPSON HIGHWAY GATE

BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin

MISCELLANEOUS DETAILS
SHEET 4

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
RB	WT	2017/05/03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
	WT	NTS
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
FII 907/908		4 of 4
Drawing Set No./N° de série du dessin		
T-MD-04		



NOTES

LEGEND

-----	PROPOSED WATER
-----	PROPOSED SANITARY
-----	PROPOSED SANITARY CLEAN OUT

5	2017/05/03	ISSUED FOR TENDER	TC	DP
4	2017/03/22	REVISED 90% CLIENT REVIEW	EK	JW
3	2017/02/15	90% DRAWING SUBMISSION CLIENT REVIEW	TC	TK
2	2016/12/07	75% DRAWING SUBMISSION CLIENT REVIEW	TC	JW
1	2016/10/28	ISSUED FOR 60% SUBMISSION	TC	TK
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision



Detail number
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A Numéro de détail
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Linear dimensions
in millimètres

Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil



Eng. Stamp
Sceau de l'ingénieur



Parks Canada
Strategic Asset
Management,
Western and Northern
Region

Parcs Canada
Gestion Stratégique
des Biens,
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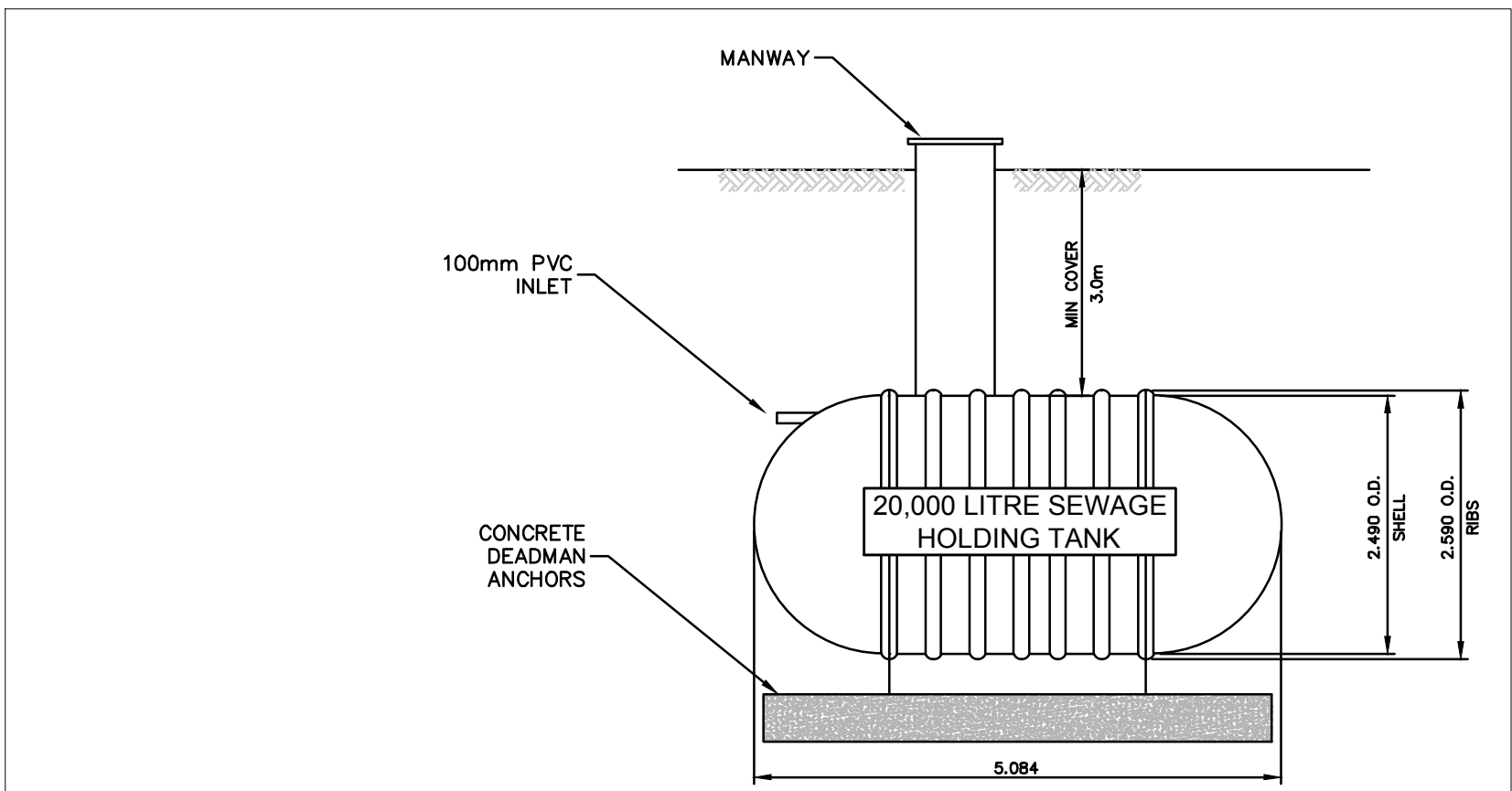
ICEFIELDS PARKWAY GATE
DAVID THOMPSON HIGHWAY GATE

BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin

DAVID THOMPSON HIGHWAY
CIVIL WORKS
SERVICING PLAN

Surveyed by/Arpenté par TC	Drawn by/Dessiné par TC	Date 2016/10/25
Designed by/Concept par TC	Reviewed by/Revisé par TK	Scale/Echelle 1:100
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./N° du projet FI 908/909	Asset No./N° du bien	Sheet No./ N° de la feuille 01 of 02
Drawing Set No./N° de série du dessin C-DSP-01		

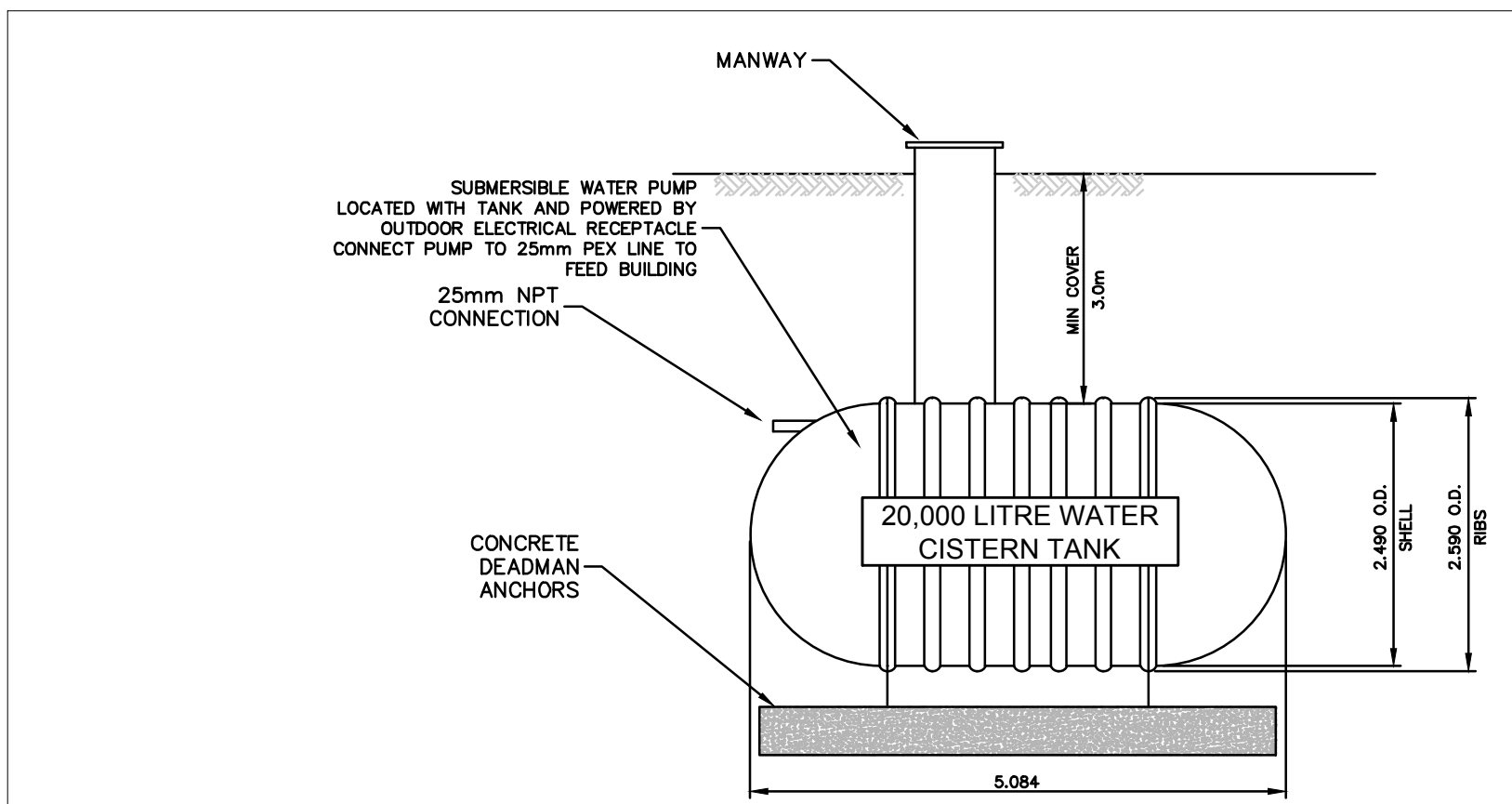


THE CONTRACTOR SHALL PROVIDE A SINGLE-WALL, FIBREGLASS REINFORCED PLASTIC (FRP) WATER STORAGE TANK AS SHOWN ON THE DRAWINGS. THE ONSITE WASTEWATER TANK SHALL BE MANUFACTURED ACCORDING TO APPLICABLE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS AND CANADIAN ASSOCIATION STANDARDS (CSA). THE TANK SIZE, FITTINGS AND ACCESSORIES SHALL BE AS SHOWN ON THE DRAWINGS.

THE TANK SHALL BE DESIGNED FOR UNDERGROUND INSTALLATION, AND SHALL BE TESTED AND INSTALLED ACCORDING TO THE ZCL INSTALLATION MANUAL AND OPERATING GUIDELINES FOR FIBREGLASS UNDERGROUND STORAGE TANKS IN EFFECT AT THE TIME OF INSTALLATION.

CAPACITY AND DIMENSIONS
TANK SHALL HAVE NOMINAL CAPACITY OF 20,000 LITRES.
TANK SHALL HAVE NOMINAL OUTSIDE DIAMETER OF 2.49 METRES

1 SEWAGE HOLDING TANK DETAIL
C-DSP-01 SCALE NTS

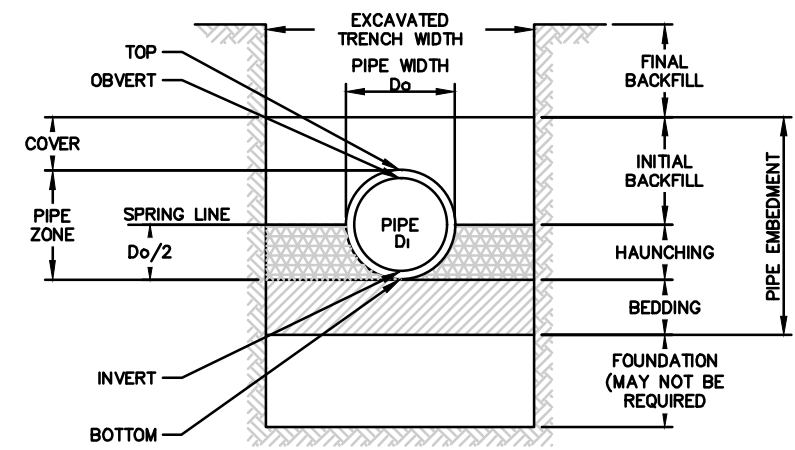


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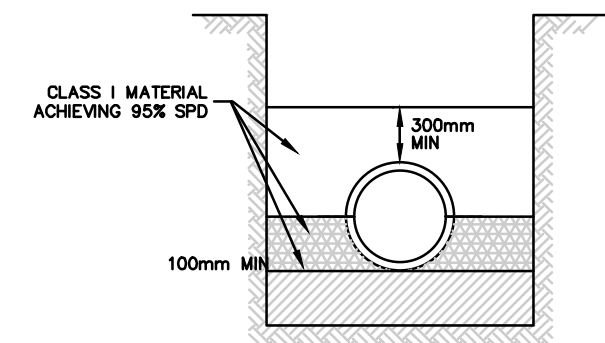
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2 WATER CISTERN TANK DETAIL
C-DSP-01 SCALE NTS



TERMINOLOGY



TYPE 1
INSTALLATION

- BEDDING UNDER THE MIDDLE THIRD OF THE PIPE SHALL BE LOOSE, UNCOMPACTED MATERIAL
- IF A ROCK FOUNDATION, THEN MINIMUM BEDDING THICKNESS IS $D_o/12$ (NOT LESS THAN 150mm)
- IF D_o IS GREATER THAN 2400mm, THEN MINIMUM BEDDING THICKNESS IS $D_o/24$

3 BEDDING & BACKFILL-PIPEZONE DETAILS
C-DSP-01 SCALE NTS

NOTES

LEGEND

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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 millimètres

Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil



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Eng. Stamp
Sceau de l'ingénieur



Parks Canada
Strategic Asset
Management,
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Region

Parcs Canada
Gestion Stratégique
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Project title/Titre du projet

ICEFIELDS PARKWAY GATE
DAVID THOMPSON HIGHWAY GATE
BANFF NATIONAL PARK, ALBERTA

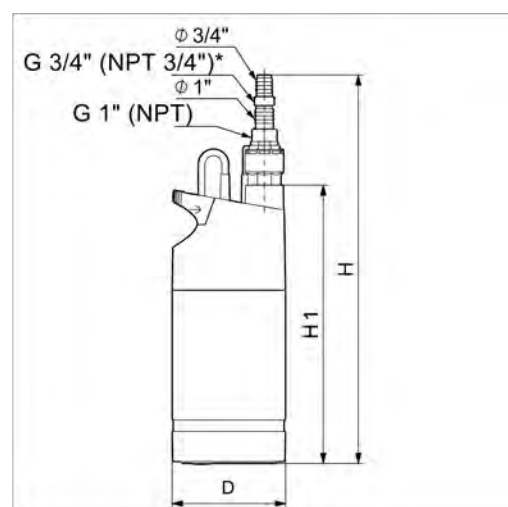
Drawing title/Titre du dessin

DAVID THOMPSON HIGHWAY
CIVIL WORKS
DETAILS 1

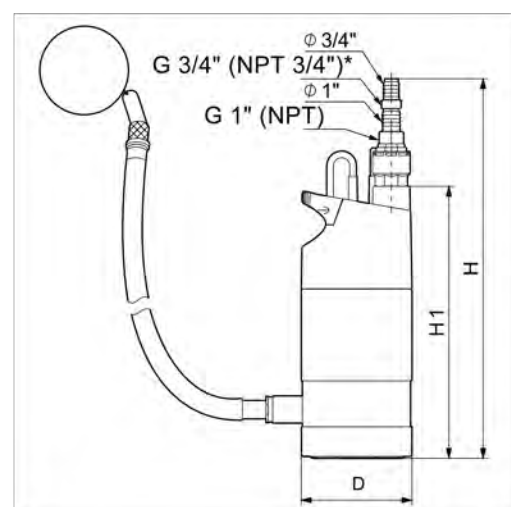
Surveyed by/Arpenté par TK	Drawn by/Dessiné par TK	Date 2016/10/25
Designed by/Concept par TK	Reviewed by/Revisé par TK	Scale/Echelle AS NOTED
Client Acceptance/Acceptation du client	Approved by/Approuvé par	
Project No./N° du projet FII 908/909	Asset No./N° du bien	Sheet No./ N° de la feuille 02 of 02
Drawing Set No./N° de série du dessin C-DD-01		

Dimensions

Model with integrated suction strainer



Model with floating suction strainer



* NPT thread only applies to 60 Hz models.

Pump type	H		H1		D	
	[mm]	[Inch]	[mm]	[Inch]	[mm]	[Inch]
SB 3-45	560	22.05	415	16.34	150	5.91

Length of supply cable: 15 meters (49.21 feet)
Max. installation depth: 10 meters (32.81 feet)

Electrical data

Insulation class: IP68.
Enclosure class: B.

Pump type	Voltage [V]	Frequency [Hz]	P1 [kW]	I _{FL} [hp]	I _{FL} [A]	n [min ⁻¹]
SB 3-45	1 x 110 - 120	60	1.07	1.43	9.9	3400

Construction

Component	Material
Cover	Polypropylene (PP30GF)
Impeller	Polypropylene (PP020GF)
Chamber	Polypropylene (PP020GF)
Shaft with rotor	Stainless steel (EN 1.4401/AISI 416)
Wetted part of shaft	Stainless steel (EN 1.4301/AISI 304)
Strainer ¹⁾	Stainless steel (EN 1.4301/AISI 304)
Inlet collar ²⁾	Stainless steel (EN 1.4301/AISI 304)

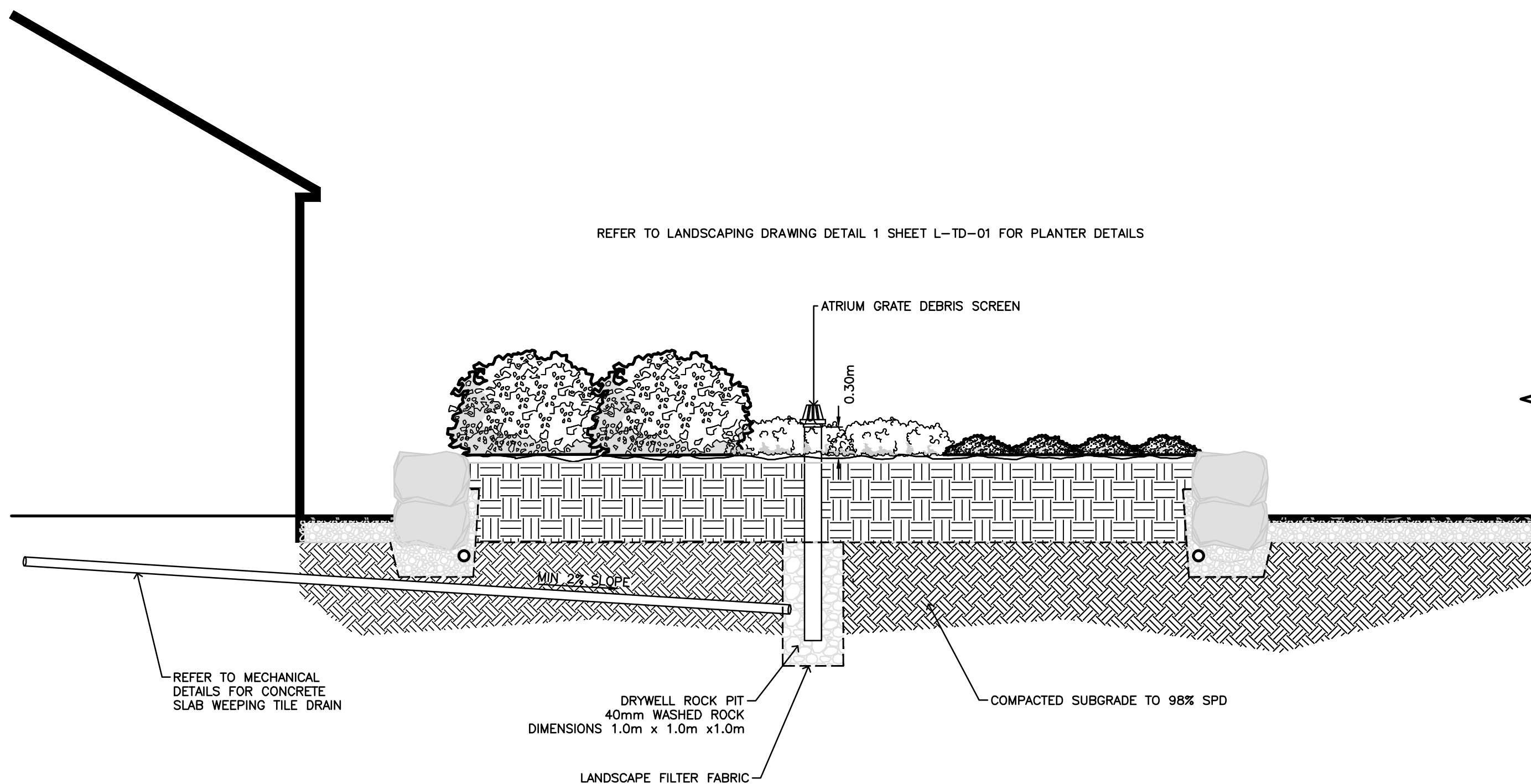
Component	Material
Cable	Neoprene H07RN-F
O-rings	NBR
Pump housing	Polypropylene (PP30GF)
Base	Polypropylene (PP30GF)
Stator housing	Stainless steel (EN 1.4301/AISI 304)

- Only fitted on models with integrated suction strainer.
- Only fitted on models with floating suction strainer.

Approvals and markings

The SB pump has the following approvals and markings:

- GOST (Russia)
- UL/CSA
- C-tick
- CE.



5

STANDPIPE DRAIN DETAIL

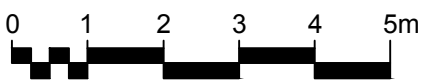
SCALE NTS

4

SUBMERSIBLE WATER PUMP

C-DSP-01

SCALE NTS



NOTES

LEGEND

	PROPOSED WATER
	PROPOSED SANITARY
	PROPOSED SANITARY CLEAN OUT

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No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Revision				
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	Detail number Sheet number	A Numéro de détail B Numéro de la feuille
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Consultant's Name
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du Nord

Canada

PROFESSIONAL ENGINEER
PANGILIMAN
MAY 03, 2017

PERMIT TO PRACTICE
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ICEFIELDS PARKWAY GATE

NIBLOCK GATE

BANFF NATIONAL PARK, ALBERTA

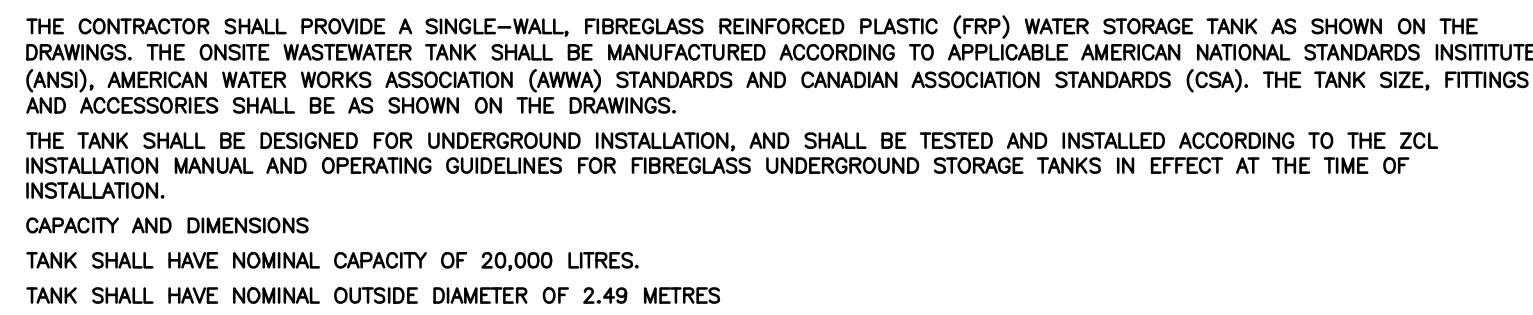
Drawing title/Titre du dessin

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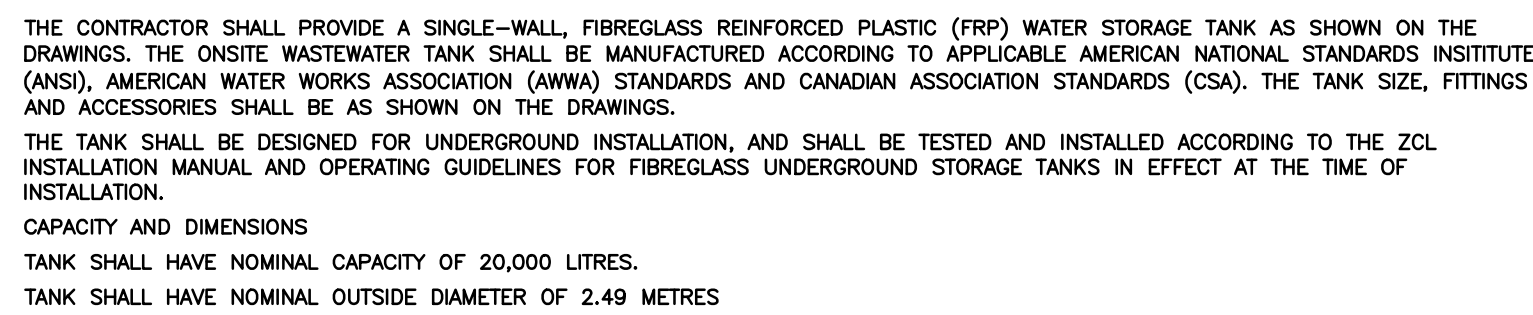
CIVIL WORKS

SERVICING PLAN

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
TC	TC	2016/10/25
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
TC	TK	1:100
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Project No./N° du projet	Asset No./N° du bien	Sheet No./N° de la feuille
FII 908/909		01 of 02
Drawing Set No./N° de série du dessin		
C-NSP-01		



C-NSP-01 SCALE NTS

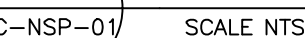
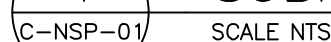


(C-NSP-01) SCALE NTS



1. BEDDING UNDER THE MIDDLE THIRD OF THE PIPE SHALL BE LOOSE, UNCOMPACTED MATERIAL
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(NOT LESS THAN 150mm)
- 3 IF D_o IS GREATER THAN 2400mm, THEN MINIMUM BEDDING THICKNESS IS $D_o/24$

SCALE NTS



GENERAL

- THIS IS A METRIC PROJECT. UNLESS OTHERWISE NOTED, ALL LENGTHS ARE IN MILLIMETERS.
- ALL REFERENCED STANDARDS SHALL BE THE CURRENT EDITION OF THE EDITION REFERENCED BY THE APPLICABLE BUILDING CODE IN FORCE AT THE TIME OF BUILDING PERMIT APPLICATION.
- "WSP-S" REFERS TO WSP CANADA INC. STRUCTURAL CONSULTANT.
- PROVIDE ALL MATERIAL AND LABOUR REQUIRED FOR COMPLETION OF THE WORK.
- PRIOR TO CONSTRUCTION, REVIEW STRUCTURAL DRAWINGS IN CONJUNCTION WITH DRAWINGS PROVIDED BY ALL OTHER CONSULTANTS, AND WITH EXISTING CONDITIONS.
- REPORT DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
- VERIFY EXISTING DIMENSIONS AND CONDITIONS ON SITE PRIOR TO CONSTRUCTION.
- USE THESE DRAWINGS ONLY FOR THE PURPOSE IDENTIFIED IN THE REVISIONS COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED 'ISSUED FOR CONSTRUCTION'.
- DO NOT USE INFORMATION ON THESE DRAWINGS FOR ANY OTHER PROJECT OR WORKS.
- DO NOT SCALE THESE DRAWINGS.
- ALL SECTIONS, DETAILS, AND STATEMENTS NOTED AS "TYPICAL" APPLY TO LIKE/SIMILAR CONDITIONS IN THE STRUCTURE.
- SEE ARCHITECTURAL DRAWINGS FOR FIRE RATING AND FIREPROOFING REQUIREMENTS.
- DRAWINGS SHOW COMPLETED STRUCTURE ONLY. THEY DO NOT SHOW TEMPORARY WORKS FOR WHICH THE CONTRACTOR IS RESPONSIBLE AND WHICH MAY BE REQUIRED FOR EXECUTION OF THE PROJECT. THE CONTRACTOR TO ESTABLISH CONSTRUCTION PROCEDURE AND SEQUENCE TO ENSURE SAFETY OF THE WHOLE STRUCTURE AND ALL ITS COMPONENTS DURING ERECTION.
- MAKE ADEQUATE PROVISIONS FOR ALL LOADS ACTING ON THE STRUCTURE DURING ERECTION. PROVIDE TEMPORARY SHORING AND BRACING TO KEEP THE STRUCTURE PLUMB AND IN TRUE ALIGNMENT DURING CONSTRUCTION.
- DESIGN OF ALL TEMPORARY WORKS TO BE CARRIED OUT BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR, LICENSED IN THE PLACE WHERE THE PROJECT IS LOCATED.
- CONSTRUCTION LOADS ON COMPLETED STRUCTURE NOT TO EXCEED DESIGN LOADS INDICATED ON DRAWINGS. FULL DESIGN LOADS MAY ONLY BE APPLIED AFTER THE CONCRETE REACHES ITS DESIGN STRENGTH.

DESIGN CRITERIA

- STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2015 NATIONAL BUILDING CODE (NBC).
- ALL REFERENCED STANDARDS SHALL BE THE CURRENT EDITION OF THE EDITION REFERENCED BY THE APPLICABLE BUILDING CODE IN FORCE AT THE TIME OF BUILDING PERMIT APPLICATION.
- THE VALUES FOR CLIMATIC DATA USED IN THE DETERMINATION OF DESIGN LOADS HAVE BEEN OBTAINED FROM THE 2015 NATIONAL BUILDING CODE OF CANADA AND FROM THE ENGINEERING CLIMATE SERVICES WITH CLIMATE CHANGE CANADA, BASED ON THE LATITUDE, LONGITUDE, AND ALTITUDE OF THE TWO SITES, WHERE CLIMATIC DATA VARIES BETWEEN THE TWO LOCATIONS. THE MORE STRINGENT HAS BEEN USED FOR DESIGN.
- BASED ON THE USE AND OCCUPANCY, THE BUILDING IS DESIGNED TO THE REQUIREMENTS OF A NORMAL IMPORTANCE CATEGORY.
- SELF WEIGHT (SWT) IS DUE TO THE WEIGHT OF THE STRUCTURE ITSELF. IT VARIES WITH THE STRUCTURAL SYSTEM, AND INCLUDES CONCRETE TOPPINGS ON STEEL DECK.
- SUPERIMPOSED DEAD LOADS (SDL) ARE NON-STRUCTURAL DEAD LOADS DUE TO NON-STRUCTURAL TOPPINGS, FINISHES, PARTITIONS, ROOFING MATERIALS, SUSPENDED EQUIPMENT, PAVERS, SOIL, ETC.
- DEAD LOAD (DL) IS THE SELF WEIGHT OF THE STRUCTURE PLUS THE SUPERIMPOSED DEAD LOAD.
- UNLESS OTHERWISE NOTED, DESIGN LOADS SHOWN ON DRAWINGS ARE SPECIFIED (UNFACTORED) LOADS, TO BE USED FOR ULS DESIGN. FOR SLS DESIGN, THESE LOADS CAN BE REDUCED BY MULTIPLYING WITH THE RATIO OF APPROPRIATE IMPORTANCE FACTORS (K(S)/1) (K(ULS) GIVEN BELOW.
- IF ONLY ONE VALUE IS GIVEN FOR A POINT LOAD, CONSIDER IT LIVE LOAD.
- FOR CONNECTION LOADS: "+" SIGN INDICATES TENSION AND "-" SIGN INDICATES COMPRESSION, EXCEPT FOR COLUMN LOADS WHERE: "+" SIGN INDICATES COMPRESSION AND "-" SIGN INDICATES TENSION.
- SNOW: $S_s = 5.5 \text{ kPa}$; $S_r = 0.1 \text{ kPa}$; $I_s \text{ (ULS)} = 1.0$; $I_s \text{ (SLS)} = 0.9$
MINIMUM UNFACTORED SNOW LOAD $= 2.9 \text{ kPa} \times I_s$
- LATERAL LOADS IN THIS STRUCTURE ARE RESISTED BY WOOD SHEAR WALLS, AND ARE DETERMINED BASED ON THE WIND AND SEISMIC DATA BELOW.
- WIND: $q_{50} = 0.36 \text{ kPa}$; $I_w \text{ (ULS)} = 1.0$; $I_w \text{ (SLS)} = 0.75$
BUILDING IS: LOW RISE
TERRAIN TYPE: OPEN
- SEISMIC
 $S_s(0.2) = 0.25$ $R_d = 3.0$ $I_{ef} S_s(0.2) = 0.33$
 $S_s(0.5) = 0.14$ $R_o = 1.7$
 $S_s(1.0) = 0.07$ $I_e = 1.0$
 $S_s(2.0) = 0.04$ SITE CLASSIFICATION = D
 $P_GA = 0.13$
SEISMIC FORCE RESISTING SYSTEM (SFRS): NAILED SHEAR WALLS (WOOD-BASED PANEL)

SHOP DRAWINGS

- SUBMIT 4 HARD COPIES OR PDFs OF SHOP DRAWINGS FOR REVIEW BEFORE START OF WORK. PACKAGES TO BE SUBMITTED ARE NOTED IN THE RELEVANT SECTIONS BELOW.
- REVIEW OF SHOP DRAWINGS BY WSP-S IS ON A SAMPLING BASIS. FOR GENERAL CONFORMITY WITH STRUCTURAL CONTRACT DOCUMENTS, IT IS NOT A DETAILED CHECK AND MUST NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR OF HIS RESPONSIBILITY TO MAKE THE WORK ACCURATE AND IN CONFORMITY WITH ALL THE CONTRACT DOCUMENTS. TO REVIEW SHOP DRAWINGS AND TO COORDINATE WORK OF INTERFACING TRADES AND MANUFACTURE OF INTERFACING PRODUCTS. REVIEW OF SHOP DRAWINGS DOES NOT IMPLY ANY CHANGE IN ANY OTHER CONSULTANTS' OR PROFESSIONALS' RESPONSIBILITIES RELATED TO DESIGN OF SPECIFIC ITEMS AS OUTLINED BY THESE DRAWINGS.
- ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW OF EACH SUBMISSION OF SHOP DRAWINGS IN THE STRUCTURAL CONSULTANT'S OFFICE. ALLOW MORE TIME WHEN LARGE QUANTITIES OF SHOP DRAWINGS ARE SUBMITTED. SUBMIT IN GENERAL CONFORMITY WITH THE SEQUENCE OF CONSTRUCTION INTENDED.
- AFTER REVIEW, SHOP DRAWINGS WILL BE STAMPED AND RETURNED. DO NOT COMMENCE FABRICATION UNTIL RETURNED SHOP DRAWINGS HAVE BEEN EXAMINED.
- SHOP DRAWINGS MARKED "REVIEWED" CAN BE USED FOR FABRICATION.
- SHOP DRAWINGS MARKED "REVIEWED AS NOTED" CAN BE USED FOR FABRICATION AFTER THE REVISIONS NOTED ARE IMPLEMENTED.
- SHOP DRAWINGS MARKED "REVISE AND RESUBMIT" REQUIRE SUBSTANTIAL REVISIONS AND MUST BE RESUBMITTED FOR ADDITIONAL REVIEW PRIOR TO FABRICATION.
- SHOP DRAWINGS MARKED "REVIEWED FOR IMPACT ON BASE STRUCTURE ONLY" SHOW WORKS WHICH ARE NOT WITHIN THE SCOPE OF STRUCTURAL CONSULTING SERVICES BUT AFFECT BEHAVIOUR OF THE BASE STRUCTURE. WSP-S CANADA INC. WILL NOT REVIEW THESE WORKS AND ASSUMES THAT THE INDICATED WEIGHTS AND ALL OTHER LOADS IMPOSED ON THE BASE STRUCTURE ARE CORRECTLY IDENTIFIED BY THE DESIGNER / SUPPLIER OF THESE ELEMENTS.
- DRAWINGS MARKED "NOT REVIEWED" SHOW WORKS WHICH ARE NOT WITHIN THE SCOPE OF STRUCTURAL CONSULTING SERVICES.

FIELD REVIEW

- STRUCTURAL CONSULTANT WILL PROVIDE PERIODIC FIELD REVIEW OF A REPRESENTATIVE SAMPLE OF THE STRUCTURAL WORKS DETAILED ON THESE DRAWINGS FOR GENERAL CONFORMANCE WITH CONTRACT DOCUMENTS. THESE REVIEWS DO NOT REPLACE THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT AND MAINTAIN A QUALITY CONTROL PROGRAM, AND DO NOT MAKE WSP-S CANADA INC. A GUARANTOR OF THE CONTRACTOR'S WORK.
- ASSIST THE CONSULTANTS DOING FIELD REVIEW, AND PROVIDE SAFE ACCESS TO WORK AREAS AS REQUIRED.
- CHECK THE WORK PRIOR TO FIELD REVIEW TO CONFIRM IT IS COMPLETED AND IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- NOTIFY THE CONSULTANT 48 HOURS PRIOR TO CONCRETE POURS, BACKFILLING, AND COVERING UP THE STRUCTURE WITH FINISHES.

FOUNDATIONS

- STRUCTURAL DESIGN IS BASED ON THE GEOTECHNICAL REPORT PREPARED BY TETRA TECH EBA, REPORT NUMBER 704-ENG-BGE0030022-01, DATED APRIL 5, 2017. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL FOUNDATION AND EARTHWORK INFORMATION.
- SET FOUNDATIONS ON HORIZONTAL UNDISTURBED SOIL CAPABLE OF SUPPORTING BEARING PRESSURE OF 150 kPa AT ULS AND 100 kPa AT SLS.
- PRIOR TO PLACING FOOTINGS, BEARING CAPACITY OF EACH FOOTING TO BE CONFIRMED IN WRITTEN REPORTS BY A GEOTECHNICAL ENGINEER RETAINED BY THE OWNER. GEOTECHNICAL ENGINEER TO CARRY MINIMUM \$1,000,000 IN LIABILITY INSURANCE. SUBMIT EACH REPORT IMMEDIATELY TO WSP-S.
- FOR FROST PROTECTION, REFER TO GEOTECHNICAL REPORT AND MEMO FOR SUBGRADE PREPARATION RECOMMENDATIONS. MINIMUM DISTANCE FROM FINISHED GRADE TO UNDERSIDE OF FOUNDATIONS TO BE NOT LESS THAN 600mm.
- LOCATE ALL EXISTING UNDERGROUND SERVICES PRIOR TO EXCAVATION.
- THE LINE OF SLOPE BETWEEN ADJACENT EXCAVATIONS FOR FOOTINGS OR TRENCHES NOT TO EXCEED A RISE OF 1 IN A RUN OF 2 (1V:2H) IN POOR SOILS, OR 1H:1V IN SAND/GRAVEL.
- PROTECT FOUNDATIONS / SLAB AND ADJACENT SOIL AGAINST FREEZING AND FROST ACTION AT ALL TIMES DURING CONSTRUCTION. DO NOT POUR CONCRETE AGAINST FROZEN EARTH.
- DO NOT PLACE CONCRETE IN WATER OR ON FROZEN SOIL.
- FOR ELEMENTS THAT ARE TO BE BACKFILLED ON BOTH SIDES, PLACE BACKFILL SIMULTANEOUSLY ON BOTH SIDES SUCH THAT HEIGHTS DO NOT VARY BY MORE THAN 800 (2') FROM ONE SIDE TO THE OTHER.

CONCRETE

- CONFORM TO CSA A23.1 "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION".
- CONCRETE IS SPECIFIED PER ALTERNATIVE 1 - PERFORMANCE SPECIFICATION, AS OUTLINED IN CANCSA A23.1. THE CONTRACTOR AND THE CONCRETE SUPPLIER TO MEET ALL CERTIFICATION, DOCUMENTATION, AND QUALITY CONTROL REQUIREMENTS.
- THE CONCRETE SUPPLIER TO BE CERTIFIED BY THE ALBERTA READY MIXED CONCRETE ASSOCIATION.
- CONCRETE TO BE NORMAL DENSITY (MIN. 2300 kg/m³) UNLESS NOTED OTHERWISE.
- CEMENT TO BE PORTLAND CEMENT TYPE GU, UNLESS NOTED OTHERWISE OR REQUIRED BY EXPOSURE CLASS. CEMENT TO CONFORM TO CSA A300.
- AGGREGATE TO CONFORM TO CSA A23.1 / A23.2. DO NOT USE RECYCLED CONCRETE AS AGGREGATE.
- CONCRETE ADMIXTURES SHALL NOT CONTAIN CHLORIDES.
- SUBMIT CONCRETE MIX DESIGNS TO WSP-S FOR REVIEW BEFORE START OF WORK.
- SLAB AND FOUNDATIONS:
 - EXPOSURE CLASS: F1
 - MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: 30 MPa
 - NOMINAL SIZE OF COARSE AGGREGATE: 20 (3/4")
- PROTECT CONCRETE FROM EXCESSIVE HEAT AND DRYING. USE HOT WEATHER CONCRETING METHODS IN ACCORDANCE WITH CANCSA-A23.1 WHENEVER THE OUTDOOR TEMPERATURE IS GREATER THAN 27°C.
- PROTECT CONCRETE FROM FREEZING. USE COLD WEATHER CONCRETING METHODS IN ACCORDANCE WITH CANCSA-A23.1 WHENEVER OUTDOOR TEMPERATURE IS LESS THAN +5°C. ALL INSULATED COVERS, HEATERS, AND OTHER MATERIALS NEEDED TO PROTECT CONCRETE TO BE ON HAND PRIOR TO POUR. DELIVER CONCRETE AT A TEMPERATURE BETWEEN +15°C AND +27°C. ENSURE A MINIMUM CONCRETE TEMPERATURE OF 10°C IS MAINTAINED THROUGHOUT THE CURING PERIOD (MINIMUM 3 DAYS).
- MAXIMUM OUTSIDE DIAMETER OF ANY CONDUIT OR PIPE EMBEDDED IN SLAB NOT TO EXCEED ONE THIRD OF THE SLAB THICKNESS.
- FORMWORK DESIGN, MATERIAL, FABRICATION, AND ERECTION TO CONFORM TO CSA S269.1
- FORMWORK MATERIAL TO BE NEW EXTERIOR PLYWOOD CONFORMING TO CSA O121, EXCEPT FOR ROUGH CONCRETE IN UNEXPOSED LOCATIONS (SUCH AS FOUNDATIONS) WHERE USED MATERIAL IS ACCEPTABLE.
- RIGID INSULATION TO BE EXTRUDED POLYSTYRENE BOARD CONFORMING TO ASTM C587, STRUCTURAL GRADE, WITH A COMPRESSIVE STRENGTH OF 275 kPa (40 psi).
- CONVEY CONCRETE FROM TRUCK TO FINAL LOCATION BY METHODS WHICH WILL PREVENT SEPARATION OR LOSS OF MATERIAL. MAXIMUM FREE FALL NOT TO EXCEED 1.5m (5'-0"). CONSOLIDATE CONCRETE USING MECHANICAL VIBRATORS.
- VAPOUR BARRIER TO BE MIN 0.25 mm (10 mils) POLYETHYLENE TO CANSCGS-51-34. PROVIDE VAPOUR BARRIER UNDER SLABS PLACED ON THE GROUND. LAP MINIMUM 150 (6") AT JOINTS AND SEAL.
- PROVIDE SLAB-ON-GRADE CONSTRUCTION JOINTS AT MAXIMUM 30m (100 ft) ON CENTER IN BOTH DIRECTIONS. PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT 25 TIMES THE SLAB THICKNESS, BUT NOT MORE THAN 5m (150) MAXIMUM ON CENTER EACH WAY. 6 TO 18 HOURS AFTER PLACING CONCRETE. SAW CUT DEPTH TO BE EQUAL TO ONE QUARTER OF THE CONCRETE THICKNESS. FILL JOINTS WITH SEMI-RIGID TWO COMPONENT EPOXY FILLER AFTER SLAB IS 120 DAYS OLD.
- CURE CONCRETE SURFACES NOT IN CONTACT WITH FORMS IN ACCORDANCE WITH A23.1 / A23.2, BY APPLICATION OF A CURING-SEALING COMPOUND CONFORMING TO ASTM C309 IMMEDIATELY AFTER DISAPPEARANCE OF SURFACE WATER SHEEN. ENSURE CURING-SEALING COMPOUND IS COMPATIBLE WITH APPLIED FINISHES.
- ENSURE THAT SLEEVES AND OPENINGS DO NOT IMPAIR THE REQUIRED STRENGTH OF THE MEMBER, AND UNLESS SHOWN ON THE STRUCTURAL DRAWINGS, ARE ACCEPTED BY THE CONSULTANT FOR SIZE, LOCATION, AND REINFORCEMENT BEFORE CONCRETE IS CAST. NO TRADE SHALL CUT HOLES THROUGH EXISTING CONCRETE UNLESS ACCEPTABLE TO THE CONSULTANT.

CONCRETE REINFORCEMENT

- CONFORM TO CSA A23.1 "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION".
- REINFORCEMENT - DEFORMED BAR REINFORCEMENT CONFORMING TO CSA G30.18 GRADE 400R. USE 400W ONLY WHERE NOTED ON DRAWINGS.
- ACCESSORIES, BAR SUPPORTS, AND TIES TO CONFORM TO REINFORCING STEEL INSTITUTE OF CANADA (RSIC) MANUAL OF STANDARD PRACTICE AND CSA A23.1 / A23.2.
- SUBMIT SHOP DRAWINGS FOR REINFORCEMENT DETAILED IN ACCORDANCE WITH THE RSIC MANUAL OF STANDARD PRACTICE. SUBMIT PLANS AND DETAILS NECESSARY TO FABRICATE, PLACE, AND REVIEW REINFORCEMENT.
- ALL REBAR HOOKS TO BE STANDARD LENGTH 90° OR 180° HOOKS. REBAR LENGTHS LISTED ON DRAWINGS DO NOT INCLUDE THE HOOK LENGTH.
- FIELD BENDING OF BARS IS NOT PERMITTED UNLESS INDICATED OR APPROVED BY WSP-S. APPROVED FIELD BENDING TO BE DONE WITHOUT THE USE OF HEAT, THROUGH APPLICATION OF SLOW AND STEADY PRESSURE. REPLACE BARS WITH CRACKS OR SPLITS.
- ALL REINFORCING TO BE CLEAN, FREE OF LOOSE SCALE, OIL, DIRT, RUST, AND ANY OTHER FOREIGN COATING THAT AFFECT BONDING CAPACITY.
- WHERE CONCRETE IS CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH, MINIMUM CONCRETE COVER TO REINFORCING BARS CLOSEST TO THE CONCRETE SURFACE TO BE 75 (3").
- FOR CLASS F-1 AND F-2 CONCRETE, MINIMUM COVER TO BE 40 (1 1/2").
- FOR CLASS C-1 CONCRETE, MINIMUM COVER TO BE 60 (2 1/2") EXCEPT FOR SLABS PROTECTED BY MEMBRANE WHERE THE COVER SHALL BE 40 (1 1/2") TO THE TOP BARS AND 30 (1 1/4") TO THE BOTTOM BARS.
- ENSURE COVER TO REINFORCEMENT IS MAINTAINED DURING CONCRETE POUR.

CONCRETE FINISHING

- POWER STEEL-TROWEL FINISH FLOORS WITH INTERIOR EXPOSED SLABS, AND FLOORS WHICH RECEIVE RESILIENT FLOORING, CARPET, EPOXY BASED FINISHES, OR THIN SET TILES. DO NOT USE STEEL TROWEL TO FINISH AIR-ENTRAINED CONCRETE.
- FOR SLABS TO RECEIVE RESILIENT FLOORING AND OTHER MOISTURE SENSITIVE FLOOR FINISHES, MONITOR SLAB MOISTURE CONTENT AND DO NOT APPLY FINISHES UNTIL THE MOISTURE CONTENT IS FOUND TO BE WITHIN AN ACCEPTABLE RANGE.
- CONCRETE SURFACE FLATNESS TO COMPLY WITH A 90% COMPLIANCE TO AN 8mm (5/16") CONVENTIONAL GAP UNDER A FREESTANDING 3m (10') STRAIGHTEDGE, WITH 100% NOT EXCEEDING 12mm (1/2"). ONE MEASUREMENT TO BE TAKEN FOR EVERY 10m² (100ft²) OF FLOOR AREA.

POST-INSTALLED ANCHORS AND DOWELS

- WHERE DRILLED CONCRETE ANCHORS (DCA) ARE NOTED ON DRAWINGS, PROVIDE HILTI KWIK BOLT - TZ EXPANSION ANCHORS. EFFECTIVE EMBEDMENT LENGTHS AS FOLLOWS:
12 (1/2") DIAMETER - 63 (3-1/4") EMBEDMENT
16 (5/8") DIAMETER - 102 (4") EMBEDMENT
19 (3/4") DIAMETER - 121 (4-3/4") EMBEDMENT
- WHERE ADHESIVE CONCRETE ANCHORS ARE NOTED ON DRAWINGS, PROVIDE HILTI HIT-HY200 ADHESIVE ANCHORING SYSTEM WITH HILTI HIT-Z ANCHOR RODS. EFFECTIVE EMBEDMENT LENGTHS AS FOLLOWS:
12 (1/2") DIAMETER - 114 (4-1/2") EMBEDMENT
16 (5/8") DIAMETER - 143 (5-5/8") EMBEDMENT
19 (3/4") DIAMETER - 171 (6-3/4") EMBEDMENT
- CONCRETE TO BE MINIMUM 28 DAYS OLD AT THE TIME OF ANCHOR INSTALLATION.
- USE DRILLING AND INSTALLATION TOOLS AND PROCEDURES PER MANUFACTURERS' RECOMMENDATIONS.
- DO NOT CUT REINFORCEMENT TO ACCOMMODATE DRILLED ANCHORS AND DOWELS.
- A WHEN OBSTRUCTIONS PREVENT DRILLING HOLES IN SPECIFIED LOCATIONS TO THE REQUIRED DEPTH, RELOCATE AT NO EXTRA COST TO THE CONTRACTOR. OBTAIN WSP-S APPROVAL OF NEW LOCATIONS BEFORE DRILLING HOLES. FILL ALL ABANDONED HOLES WITH MIN. 30MPa GROUT. DO NOT TIGHTEN ANCHORS UNTIL GROUT IN ADJACENT ABANDONED HOLES REACHES 75% f_c'.

STRUCTURAL STEEL

- CONFORM TO CSA S16 "LIMIT STATES DESIGN OF STEEL STRUCTURES".
- FABRICATOR TO BE CERTIFIED BY THE CANADIAN WELDING BUREAU UNDER REQUIREMENTS OF CSA W47.1, DIVISION 1 OR 2, AND/OR CSA W55.3.
- WELDERS TO BE CWB CERTIFIED. WELDING TO BE IN ACCORDANCE WITH CSA W59.
- MATERIALS (TO CSA G40.21 UNLESS NOTED OTHERWISE):
 - CHANNEL, ANGLES, PLATES, BARS: GRADE 300W
 - HOLLOW STRUCTURAL SECTIONS (HSS): 30W CLASS "C" OR ASTM A500 GRADE C
 - BOLTS, NUTS AND WASHERS: ASTM F1554, GRADE A325
 - ANCHOR RODS: GRADE 300W, OR ASTM F1554 GRADE 36
 - SHOP PAINT: CISCPMA 1-73A
 - SHOP PRIMER PAINT: CISCPMA 2-75
 - ZINC-RICH PAINT (ZRP) COATING: SSPC PAINT SPECIFICATION NO. 20
 - HOT-DIP GALVANIZING: ASTM A123/A123M
 - WELDING MATERIALS: CSA W48 AND CSA W59
- SHOP DRAWINGS FOR STRUCTURAL STEEL, STEEL CONNECTIONS, AND STEEL JOISTS TO BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR DESIGN, RETAINED BY THE CONTRACTOR AND REGISTERED IN THE PLACE THE PROJECT IS LOCATED. ENGINEER TO CARRY MINIMUM \$1,000,000 IN LIABILITY INSURANCE.
- CONNECT BEAMS FOR THE FORCES SHOWN ON DRAWINGS USING THE CISC "HANDBOOK OF STEEL CONSTRUCTION". IF NO FORCE IS INDICATED, CONNECT NON-COMPOSITE BEAMS FOR THE REACTION SHOWN ON PLAN.
- DO NOT CUT HOLES OR OTHERWISE MODIFY STRUCTURAL MEMBERS ON SITE.
- DO NOT OVERSIZE ANCHOR ROD HOLES FOR SITE TOLERANCES. USE HOLE SIZES SUGGESTED IN THE CISC "HANDBOOK OF STEEL CONSTRUCTION".
- PROTECT COMBUSTIBLE MATERIALS AND FINISHES DURING WELDING OPERATIONS.

- UNLESS OTHERWISE NOTED, CLEAN STEEL TO SSPC SP1 (SOLVENT CLEANING) AND APPLY ONE COAT OF SHOP PAINT.
- CLEAN STEEL WHICH WILL RECEIVE A FINISHED COAT OF PAINT ON SITE TO SSPC SP7 (BRUSH OFF BLAST CLEANING) AND APPLY SHOP PRIMER.
- CLEAN STEEL WHICH WILL RECEIVE ZRP TO SSPC SP10 (NEAR WHITE BLAST CLEANING), AND APPLY ZINC RICH PRIMER.
- ALL STEEL LOCATED OUTSIDE THE VAPOUR BARRIER TO BE HOT DIPPED GALVANIZED.
- CLEAN SURFACES DOWN TO BARE METAL AND APPLY TWO COATS OF TOUCH-UP ZRP TO ANY GALVANIZED OR ZRP SURFACE THAT HAS BEEN DAMAGED OR FIELD WELDED.
- PROVIDE VENT HOLES IN HSS SECTIONS WHERE REQUIRED FOR GALVANIZING PROCESS. MAXIMUM SIZE 16 (5/8") DIAMETER. FILL WITH VENT HOLE PLUGS AFTER GALVANIZING.
- PROVIDE ALL ERECTION BRACING REQUIRED TO KEEP THE STRUCTURE STABLE AND IN ALIGNMENT DURING CONSTRUCTION.
- PREMIEX GROUT: NON-SHRINK, MINIMUM STRENGTH 40 MPa AT 28 DAYS. INSTALL GROUT UNDER BASE PLATES AS SOON AS STEEL WORK IS COMPLETE, IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS. PROVIDE 100% CONTACT OVER GROUTED AREA. DO NOT APPLY ANY LOADS TO THE STEELWORK BEFORE GROUT ACHIEVES SUFFICIENT STRENGTH.

STRUCTURAL WOOD

- CONFORM TO CSA 086 "ENGINEERING DESIGN IN WOOD".
- MATERIALS:
 - LUMBER: TO CSA 141; KILN DRIED, SPF, NO. 2 OR BETTER, MOISTURE CONTENT MAX 19%
 - PLYWOOD SHEATHING: TO CSA D51 SOFTWOOD SPRUCE, OR CSA D121 DOUGLAS FIR
 - OSB SHEATHING: TO CSA D325
 - LAMINATED VENEER LUMBER (LVL): MINIMUM GRADE 2.0E, 2500F (F_b=31.9MPa) OR BETTER
 - NAILS: COMMON ROUND STEEL WIRE NAILS
 - WOOD BOLTS: ASTM A307
 - LAG SCREWS: ANSI/ASME B18.12.1 MACHINE THREADED
 - WOOD CONNECTORS: BY SIMPSON STRONG-TIE OR APPROVED EQUIVALENT
- UNLESS NOTED OTHERWISE, ALL WOOD FRAMING DETAILS TO BE IN ACCORDANCE WITH PART 9 OF THE REFERENCED BUILDING CODE.
- PROTECT ALL WOOD PRODUCTS FROM THE ELEMENTS AS REQUIRED TO MAINTAIN THEIR INTEGRITY.
- PROVIDE ALL ERECTION BRACING REQUIRED TO KEEP THE STRUCTURE STABLE AND IN ALIGNMENT DURING CONSTRUCTION.
- SUBSTITUTION OF COMMON NAILS WITH POWER DRIVEN NAILS OF THE SAME LENGTH AND DIAMETER IS ACCEPTABLE. SUBSTITUTION OF POWER DRIVEN NAILS OF SMALLER DIAMETER MUST BE APPROVED IN WRITING BY WSP-S PRIOR TO USE. POWER DRIVEN NAILS NOT TO BE OVER-DRIVEN INTO WOOD OR SHEATHING.
- PROPOSED NOTCHING AND DRILLING OF FRAMING MEMBERS MUST BE SUBMITTED TO THE ENGINEER RESPONSIBLE FOR THOSE FRAMING MEMBERS FOR THEIR REVIEW. SIGNIFICANT NOTCHES CONFORMING TO PART 9 MAY BE REJECTED IF THEY COMPROMISE THE STRUCTURAL INTEGRITY.
- ALL COMPONENTS OF BUILT-UP MEMBERS TO BE CONTINUOUS FOR FULL SPAN. DO NOT SPLICE OR USE BUTT JOINTS.
- UNLESS NOTED OTHERWISE, BUILT-UP TIMBER COLUMNS TO BE FASTENED AS PER TYPICAL DETAIL TW-FAST-01.
- UNLESS NOTED OTHERWISE ON PLAN OR BY FLOOR/ROOF SYSTEM ENGINEER, BUILT-UP BEAMS TO BE FASTENED AS PER TYPICAL DETAIL TW-FAST-02.
- CARRY ALL POSTS DOWN TO FOUNDATION. PROVIDE SOLID VERTICAL BLOCKING OF MATCHING SIZE OR LARGER AND IN LINE WITH POSTS AT FLOOR LEVELS.
- USE JOISTS HANGERS WHERE JOISTS FRAME INTO SIDES OF SUPPORTS.
- PROVIDE SOLID BLOCKING BETWEEN JOISTS AT INTERIOR SUPPORTS, AND PROVIDE CROSS-BRIDGING BETWEEN JOISTS AT MAX. 20M (7'-0") ON CENTRE ALONG LENGTH OF SPAN, UNLESS NOTED OTHERWISE.
- FOR SAWN LUMBER ROOF / FLOOR SYSTEMS, ALL RIM BOARD AND BLOCKING MATERIAL TO BE MIN. 38 (1-1/2") THICK UNLESS NOTED OTHERWISE ON DRAWINGS.
- UNTREATED WOOD NOT TO BE IN DIRECT CONTACT WITH CONCRETE. PROVIDE FOAM GASKET BETWEEN WOOD AND CONCRETE, OR USE PRESSURE TREATED WOOD. REFER TO PLANS FOR ADDITIONAL REQUIREMENTS.

GLUE LAMINATED TIMBER

- CONFORM TO CSA 086.
- MATERIALS: TO CSA D122
LAMINATING STOCK: SPRUCE PINE
STRESS GRADE: BENDING GRADE 20R-E
SERVICE GRADE: EXTERIOR
APPEARANCE GRADE: QUALITY
- REFER TO PLANS AND SPECIFICATIONS FOR LOADING AND PERFORMANCE REQUIREMENTS.
- REFER TO ARCHITECTURAL DRAWINGS FOR FINISHING, STAINING AND SEALING REQUIREMENTS.
- FABRICATE IN A PLANT QUALIFIED UNDER CSA D177. CONNECT FOR THE LOADS GIVEN ON STRUCTURAL DRAWINGS. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PLACE THE PROJECT IS LOCATED. SHOP DRAWINGS TO INCLUDE ENGINEERED DESIGNS, LAYOUT DRAWINGS, ALL CONNECTION DETAILS, FINISHES, CAMBER, CUTS, LEDGERS AND HOLES.
- USE PROTECTIVE BLOCKING BETWEEN SLINGS AND WRAPPED GLUE LAMINATED MEMBERS WHEN UNLOADING AND ERECTING.
- LEAVE PROTECTIVE WRAPPING IN PLACE UNTIL THE STRUCTURE IS ENCLOSED.
- DO NOT FIELD CUT OR ALTER MEMBERS (NOTCH, CUT OR DRILL HOLES) WITHOUT WSP-S APPROVAL.

INSPECTION AND TESTING

- PROVIDE INSPECTION REPORTS PREPARED BY AN INDEPENDENT INSPECTION AND TESTING AGENCY FOR THE SCOPES LISTED BELOW.
- MAKE ONE STANDARD TEST FOR EACH 50 CUBIC METRES OF CONCRETE, BUT NOT LESS THAN ONE TEST FOR CONCRETE CAST EACH DAY. PROVIDE A GROUP OF THREE CONCRETE CYLINDERS FOR EACH STANDARD CONCRETE TEST IN ACCORDANCE WITH CSA A23.1 AND 2.
- STRUCTURAL STEEL INSPECTION REPORTS TO INCLUDE VERIFICATION OF SPECIFIED MEMBER SIZES AND TOLERANCES AND INSPECTION OF WELDING AND BOLTING. INSPECTOR TO REVIEW WELDERS' CWB CERTIFICATION.

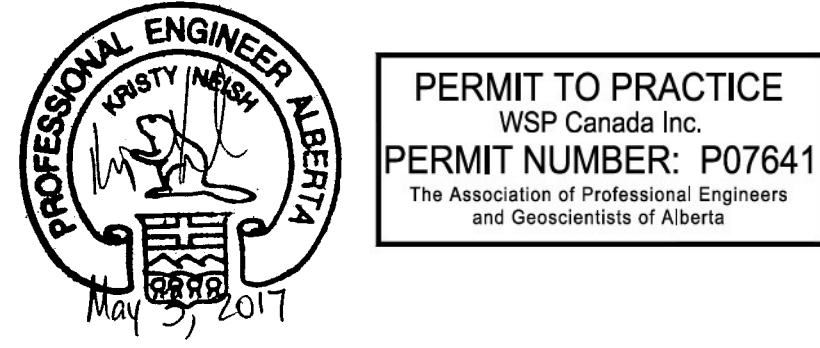
REJECTED WORK

- DO NOT DELIVER MATERIALS WHICH ARE KNOWN NOT TO MEET THE REQUIREMENTS OF THE SPECIFICATIONS. IF REJECTED AFTER DELIVERY, REMOVE IMMEDIATELY FROM SITE.

DRAWING ABBREVIATIONS

ABC ADCL OF ANCHOR AESS AI	ALBERTA BUILDING CODE ADDITIONAL ANCHOR ROD ARCHITECTURALLY EXPOSED STRUCTURAL STEEL FACTORED AXIAL LOAD IN KN (+ INDICATES TENSION, -INDICATES COMPRESSION) ALTERNATE ARCHITECTURAL APPARATUS BAY	KN kN/m ² kPa	KILONEWTON KILONEWTON PER METRE SQUARED KILOPASCAL
ALT COL APP BAY	BOTTOM BOTTOM OF FOOTING BOTTOM CHORD EXTENSION BORED CONCRETE PILE BOTTOM EACH WAY BOTTOM LOWER LAYER	LB k kN/m ² kN/m ³ kN/m ² kN/m ² kN/m ²	POUND, POUNDS TENSION DEVELOPMENT LENGTH OF REBAR COMPRESSION DEVELOPMENT LENGTH OF REBAR SINGLE ANGLE BACK TO BACK ANGLES LEFT END LONG UPPER LEVEL, BALJOIST LOWER LEVEL, BALJOIST LIVE LOAD IN kN/m ² LONG LEG HORIZONTAL LONG LEG VERTICAL LONG SIDE VERTICAL LONG SIDE HORIZONTAL LOW POINT
BSM BUT BUP	BASE PLATE BASEMENT BOTTOM UPPER LAYER BOTTOM OF UNDERPINNING	MM MECH MM MIN MIN MTI	MAXIMUM MECHANICAL FACTORED MOMENT IN kN.m MINIMUM MINIMUM FACTORED TORSION IN kN.m
CA CAM CANIT CANIT C/C CEL CF CJ CLR CENT LINE CNT COMP COLL CONC CONC CONT COW COW CWS CLS CSS	COLUMN ABOVE ONLY (NO COLUMN BELOW) CAMBER CANTILEVER COLUMN BELOW CENTRE TO CENTRE CUT OFF ELEVATION FOR PILES CONCRETE FIREPROOFED CONSTRUCTION JOINT CLEAR CENTRAL LINE STEEL DECK CORE NOMINAL THICKNESS COMPOSITE COLLUSION CONCRETE CONTINUOUS CONNECTION PLATE COMPLETE WITH SEE GENERAL NOTES SEE GENERAL NOTES SEE GENERAL NOTES	➔ NFC NFC NOT IN CONTACT NTS	MOMENT CONNECTION NATIONAL BUILDING CODE NEAR FACE NOT IN CONTACT NOT TO SCALE
DCA DET DEF D.F.I.R. DIA Ø DIMENSION DN DL DMA DOWN DO DO DP DWG DNL	DRILLED CONCRETE ANCHOR DETAIL DEFLECTION DOUGLAS FIR-LARCH DIAMETER DIMENSION DEAD LOAD IN kN/m ² DRILLED MASONRY ANCHOR DOWN DO DO DEEP DRAWING DOWEL	PI PL PSF PSI PS PT	FACTORED POINT LOAD IN KN PLATE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PIPE SUPPORT POST TENSION
EA EOR EE EF EJ, EXP JT ELECT ELEV EQ EW EX, EXIST	EACH EPOXY COATED REINFORCEMENT EACH END EACH FACE EXPANSION JOINT ELECTRIC ELEVATION ELEVATOR EQUAL EACH WAY EXISTING	RA RO REIN RW RE RF RI RTU	ROOF ANCHOR ROOF DRAIN REINFORCEMENT REINFORCED WITH RIGHT END RIGID FRAME FACTORED VERTICAL REACTION IN KN FACTORED HORIZONTAL REACTION IN KN ROOF TOP UNIT
FD FF FIN FMC FTG fc fy	FLOOR DRAIN FAR FACE FINISHED FULL MOMENT CONNECTION FOOTING COMPRESSIVE STRENGTH OF CONC YIELD STRENGTH IN MPa	➔ SCA SDL SIM SLS SOG SPF STL STLR STIFF	STEP DOWN FOOTING IN DIRECTION OF ARROW STEEL COLUMN ABOVE (NO STEEL COLUMN BELOW) SUPERIMPOSED DEAD LOAD (EXCLUDING SELF-WEIGHT) IN kN/m ² SIMILAR STEEL JOIST SERVICEABILITY LIMIT STATE SLAB-ON-GRADE SPRUCE PINE FIR STEEL STIRRUP STIFFENER
GALV GB GL GLM	GALVANIZE GRADE BEAM GRIDLINE GLULAM	I TB TCE T TIO TEW THK TJ TJA TLL TLP TOP TPC TS TUL TYP	THICKNESS TRANSFER BEAM TOP CHORD EXTENSION TOP TOP OF TOP EACH WAY THICK TIE JOIST TIE JOIST SUBJECT TO AXIAL LOAD TOP LOWER LAYER TOP OF FOOTING TOP OF PILE TOP OF PILE CAP TENSION SPLICE TOP UPPER LAYER TYPICAL
h H, HOR HDG HEF HH HC HK HP	TOTAL THICKNESS HORIZONTAL, HANGER HOT DIPPED GALVANIZED HORIZONTAL EACH FACE HOOK EACH END HORIZONTAL IN CENTRE HOOK HIGH POINT	ULS UIS UN UPT	ULTIMATE LIMIT STATE UNDERSIDE UNLESS NOTED UPTURNED
IBA IBI IBE	INTEGRITY BARS ADDED INTEGRITY BARS INTERIOR INTEGRITY BARS EXTERIOR	VB V VEF VF VIC V, VERT, VERTS VSC VXB	VERTICAL BRACING VERTICAL VERTICAL EACH FACE FACTORED SHEAR IN KN VERTICAL IN CENTRE VERTICAL VERTICALS VERTICALLY SLOTTED CONNECTION VERTICAL "X" BRACING
JG	JOIST GIRDER	WC WWA WWF	WIND COLUMN WINDING WASHING ANCHORS WELDED WIRE FABRIC
		ZRP	ZINC RICH PAINT

NOTES




4	2017/05/03	ISSUED FOR TENDER	DAM	KEN
3	2017/03/22	REVISED 90% CLIENT REVIEW	DAM	
2	2017/02/15	90% CLIENT REVIEW	DAM	
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
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Linear dimensions In millimètres	Dimensions linéaires en millimètres
Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
 4015 7 STREET SE CALGARY, ALBERTA T2G 2Y9 403.255.7946 www.wspgroup.com	
WSP PROJECT NUMBER: 161-16846-00	

 Parks Canada	Parcs Canada
Strategic Asset Management, Western and Northern Region	Gestion Stratégique des Biens, Région de l'Ouest et du Nord

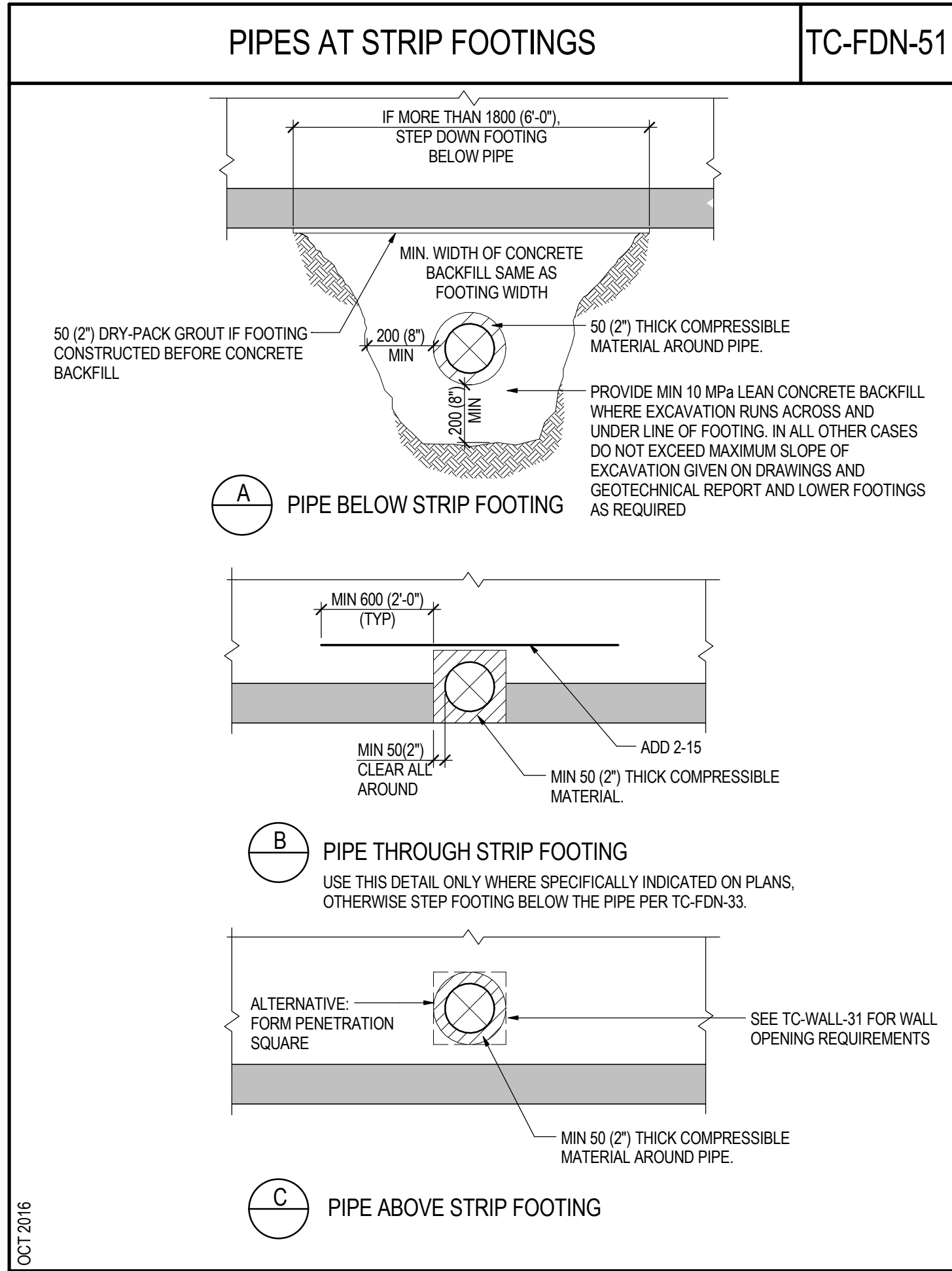
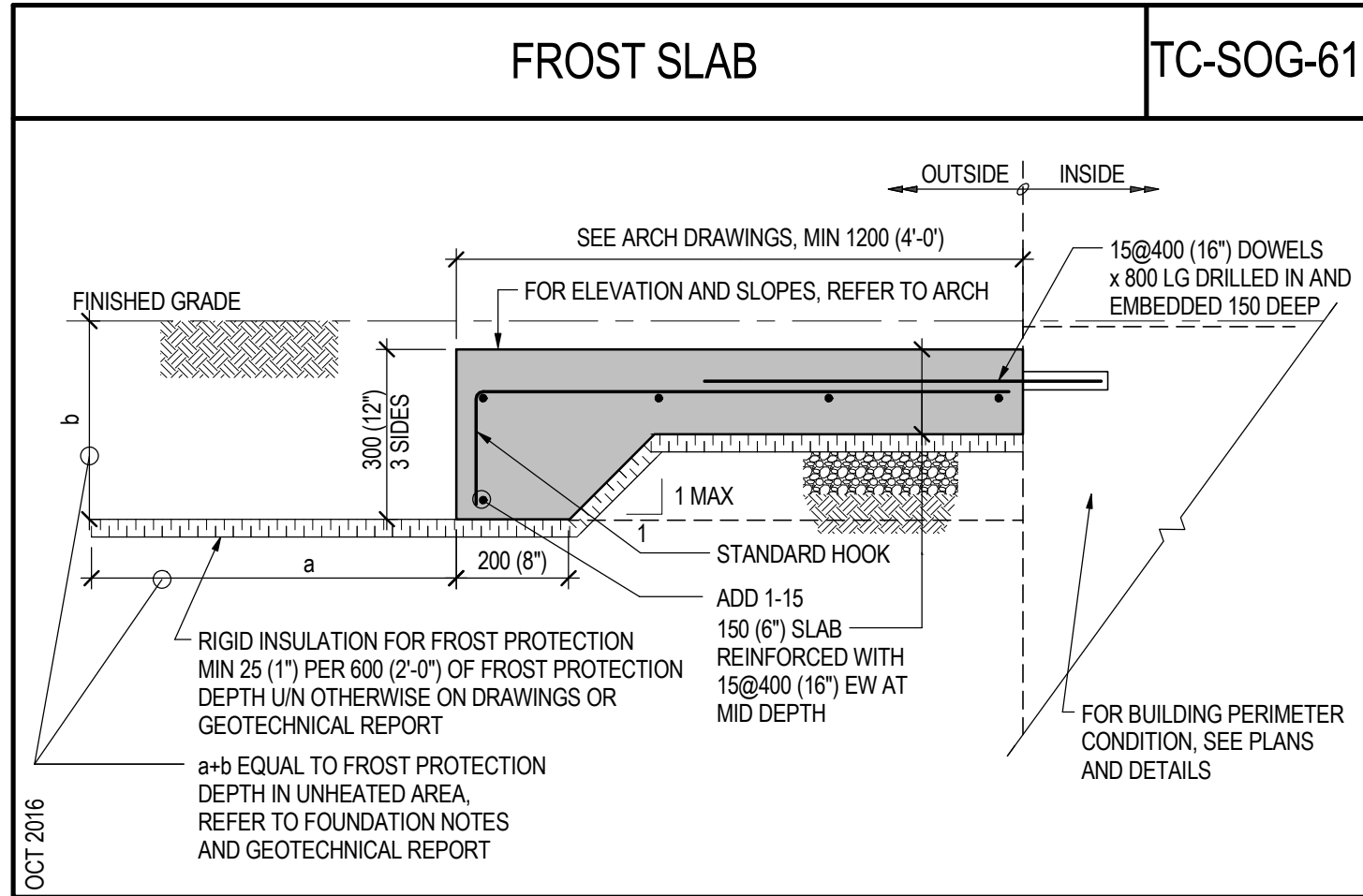
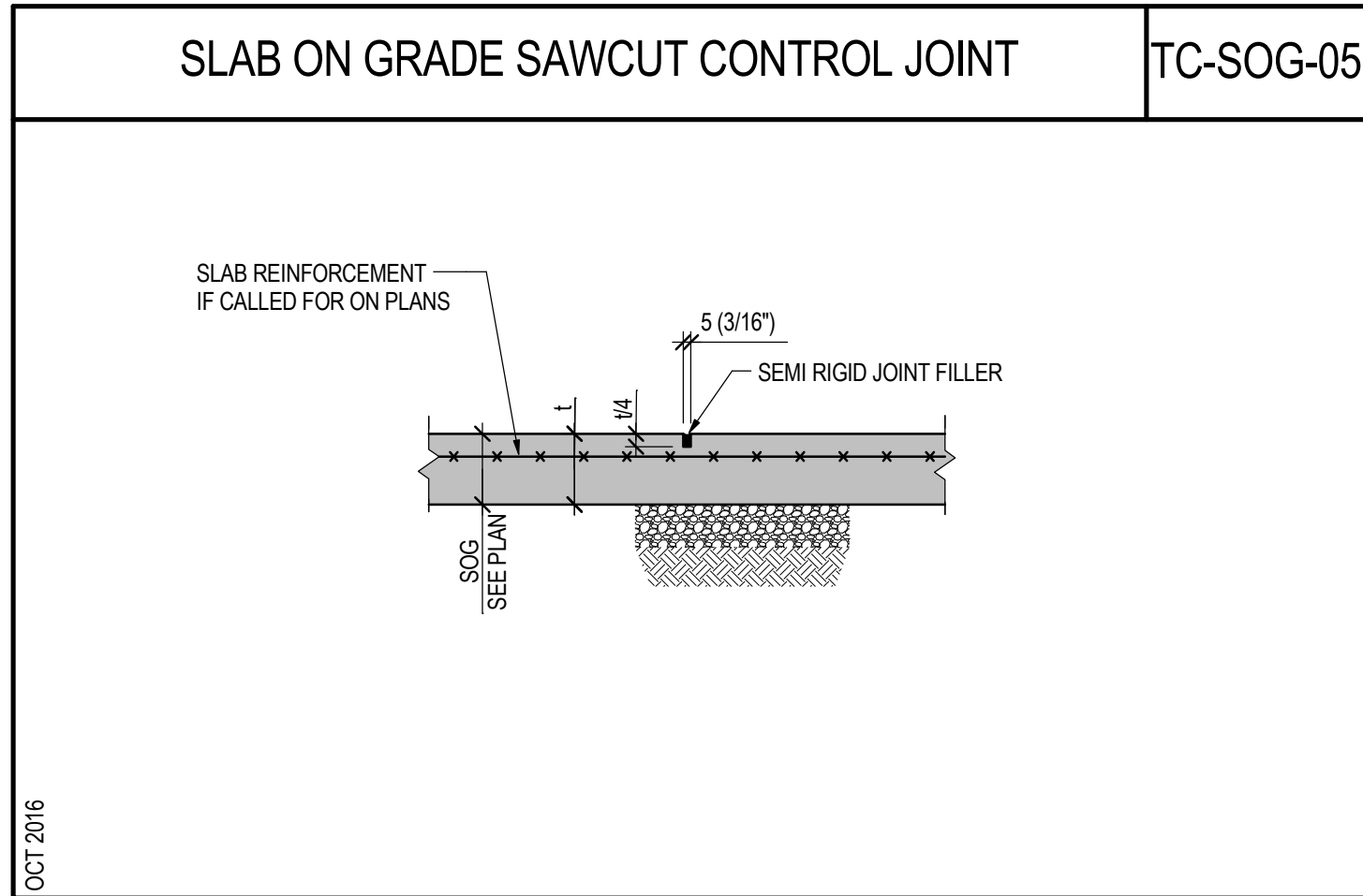
Canada

ICEFIELD PARKWAY GATE REDEVELOPMENT BANFF NATIONAL PARK

Drawing title/Titre du dessin GENERAL NOTES

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
	DAM	2017-05-03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
KEN		N/A
Client Acceptance/Acceptation du client	Approved by/Approuvé par	
Project No./Nº du projet	Asset No./Nº du bien	Sheet No./Nº de la feuille
FII 907/908		
Drawing Set No./Nº de série du dessin		01 of 04
S-GN-01		

SHEET LIST	
SHEET NO.	SHEET NAME
S-GN-01	GENERAL NOTES
S-TD-01	TYPICAL DETAILS
S-TD-02	TYPICAL DETAILS
S-PS-01	PLANS AND SECTIONS



TENSION DEVELOPMENT LENGTHS AND LAP SPLICES - BARS GRADE 400 MPa TC-REINF-01

TENSION DEVELOPMENT LENGTHS ℓ_d FOR BARS GRADE 400 MPa

- BLACK BARS
- FOR EPOXY BARS MULTIPLY VALUES IN TABLE BY 1.5 EXCEPT THAT A MULTIPLIER OF 1.2 CAN BE USED WHEN CLEAR COVER IS MORE THAN 3x BAR DIAMETER AND CLEAR SPACING BETWEEN BARS IS MORE THAN 6x BAR DIAMETER.
- FOR SEMI LOW DENSITY CONCRETE ($1850 < Y_c \leq 2150 \text{ kg/m}^3$) MULTIPLY VALUES IN TABLE BY 1.2. FOR LOW DENSITY CONCRETE ($Y_c \leq 1850 \text{ kg/m}^3$) MULTIPLY VALUES IN TABLE BY 1.3.
- FOR BUNDLED BARS, MULTIPLY VALUES IN TABLE BY 1.1 FOR A TWO BAR BUNDLE, 1.2 FOR A THREE BAR BUNDLE AND 1.33 FOR A FOUR BAR BUNDLE
- "TOP" MEANS THAT THERE IS MORE THAN 300 (12") OF CONCRETE BELOW, AND LESS THAN 300 (12") OF CONCRETE ABOVE THE HORIZONTAL BAR WITHIN THE INDIVIDUAL CONCRETE POUR. ALL HORIZONTAL BARS IN SHEAR WALLS TO BE CONSIDERED "TOP".
- ALL VERTICAL BARS ARE CONSIDERED "BOTTOM"

BAR SIZE	$f_c = 25$		$f_c = 30$		$f_c = 35$		$f_c = 40$		$f_c = 50$		$f_c = 60$	
	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP
10	300 (12")	380 (15")	300 (12")	350 (14")	300 (12")	320 (13")	300 (12")	300 (12")	300 (12")	300 (12")	300 (12")	300 (12")
15	440 (17")	570 (23")	400 (16")	520 (21")	370 (14")	480 (19")	350 (14")	450 (18")	310 (12")	400 (16")	300 (12")	370 (14")
20	580 (23")	750 (30")	530 (21")	690 (27")	490 (19")	640 (25")	460 (18")	600 (24")	410 (16")	530 (21")	380 (15")	490 (19")
25	900 (36")	1170 (46")	830 (32")	1070 (42")	770 (30")	990 (39")	720 (28")	930 (37")	640 (25")	830 (33")	590 (23")	760 (30")
30	1080 (43")	1410 (55")	990 (39")	1290 (51")	920 (36")	1190 (47")	860 (34")	1110 (44")	770 (30")	1000 (39")	700 (28")	910 (36")
35	1260 (50")	1640 (65")	1160 (46")	1500 (60")	1070 (42")	1390 (55")	1000 (40")	1300 (52")	900 (35")	1160 (46")	820 (32")	1060 (42")

CLASS B TENSION LAP SPLICE LENGTHS FOR BARS GRADE 400 MPa

- BLACK BARS
- FOR EPOXY BARS MULTIPLY VALUES IN TABLE BY 1.5 EXCEPT THAT A MULTIPLIER OF 1.2 CAN BE USED WHEN CLEAR COVER IS MORE THAN 3x BAR DIAMETER AND CLEAR SPACING BETWEEN BARS IS MORE THAN 6x BAR DIAMETER.
- FOR SEMI LOW DENSITY CONCRETE ($1850 < Y_c \leq 2150 \text{ kg/m}^3$) MULTIPLY VALUES IN TABLE BY 1.2. FOR LOW DENSITY CONCRETE ($Y_c \leq 1850 \text{ kg/m}^3$) MULTIPLY VALUES IN TABLE BY 1.3.
- FOR BUNDLED BARS, MULTIPLY VALUES IN TABLE BY 1.1 FOR A TWO BAR BUNDLE, 1.2 FOR A THREE BAR BUNDLE AND 1.33 FOR A FOUR BAR BUNDLE
- "TOP" MEANS THAT THERE IS MORE THAN 300 (12") OF CONCRETE BELOW, AND LESS THAN 300 (12") OF CONCRETE ABOVE THE HORIZONTAL BAR WITHIN THE INDIVIDUAL CONCRETE POUR. ALL HORIZONTAL BARS IN SHEAR WALLS TO BE CONSIDERED "TOP".
- ALL VERTICAL BARS ARE CONSIDERED "BOTTOM"

BAR SIZE	$f_c = 25$		$f_c = 30$		$f_c = 35$		$f_c = 40$		$f_c = 50$		$f_c = 60$	
	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP
10	390 (16")	490 (19")	390 (16")	450 (18")	390 (16")	420 (17")	390 (16")	390 (16")	390 (16")	390 (16")	390 (16")	390 (16")
15	570 (23")	740 (29")	520 (21")	670 (27")	480 (19")	620 (25")	450 (18")	580 (23")	400 (16")	520 (20")	390 (16")	480 (19")
20	750 (29")	980 (39")	690 (27")	890 (35")	640 (25")	830 (33")	600 (24")	770 (30")	530 (21")	690 (27")	490 (19")	630 (25")
25	1170 (46")	1530 (61")	1070 (42")	1390 (55")	990 (39")	1290 (51")	930 (37")	1210 (48")	830 (33")	1080 (43")	760 (30")	990 (39")
30	1410 (56")	1830 (72")	1290 (51")	1670 (66")	1190 (47")	1550 (61")	1110 (44")	1450 (57")	1000 (39")	1300 (51")	910 (36")	1180 (46")
35	1640 (65")	2130 (84")	1500 (60")	1950 (77")	1390 (55")	1800 (72")	1300 (52")	1690 (67")	1160 (46")	1510 (59")	1060 (42")	1380 (54")

MINIMUM TENSION EMBEDMENT LENGTHS WITH STANDARD END HOOKS ℓ_{dh} , FOR BARS GRADE 400 MPa

- BLACK BARS
- FOR EPOXY BARS MULTIPLY VALUES IN TABLE BY 1.2
- FOR LOW DENSITY CONCRETE ($Y_c \leq 1850 \text{ kg/m}^3$) MULTIPLY VALUES IN TABLE BY 1.3
- FOR HOOKS WITH COVER LESS THAN SHOWN IN DETAILS 'A' AND 'B' MULTIPLY VALUES IN TABLE BY 1.5

BAR SIZE	$f_c = 25$	$f_c = 30$	$f_c = 35$	$f_c = 40$	$f_c = 50$	$f_c = 60$
10	150 (6")	150 (6")	150 (6")	150 (6")	150 (6")	150 (6")
15	210 (8")	200 (8")	180 (7")	170 (7")	150 (6")	150 (6")
20	280 (11")	260 (10")	240 (10")	230 (9")	190 (8")	190 (8")
25	350 (14")	320 (13")	300 (12")	280 (11")	240 (9")	230 (9")
30	420 (17")	390 (16")	360 (14")	340 (14")	290 (11")	280 (11")
35	490 (20")	450 (18")	420 (17")	390 (16")	340 (13")	320 (13")

ELEVATION

A

B

FOR VALUES NOT PROVIDED IN TABLES INTERPOLATE BETWEEN THE NEAREST VALUES PROVIDED.

OCT 2016

COMPRESSION DEVELOPMENT LENGTHS AND LAP SPLICES LENGTHS FOR BARS GRADE 400 MPa TC-REINF-02

COMPRESSION DEVELOPMENT LENGTH ℓ_{dc} FOR BAR GRADE 400 MPa

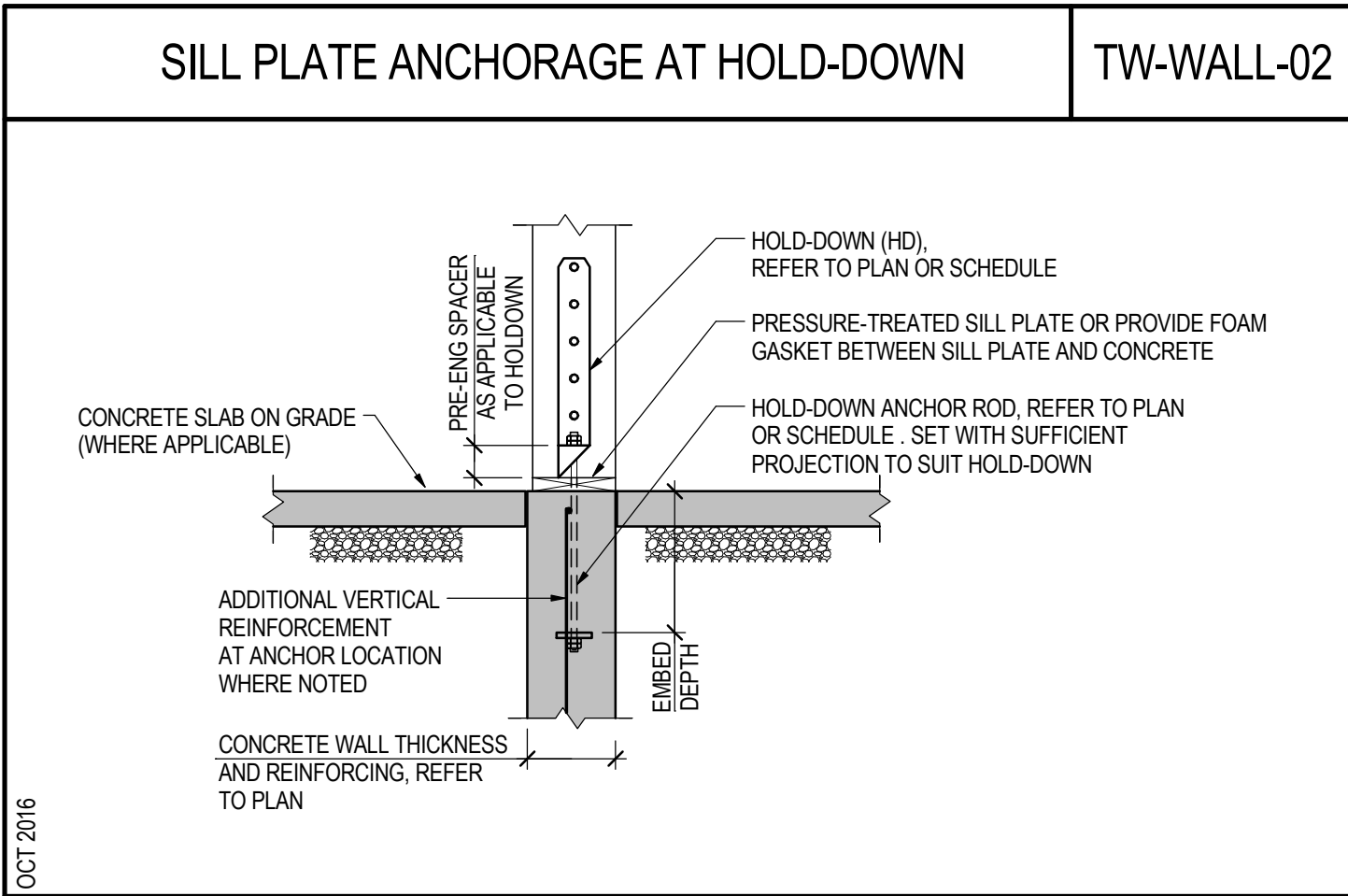
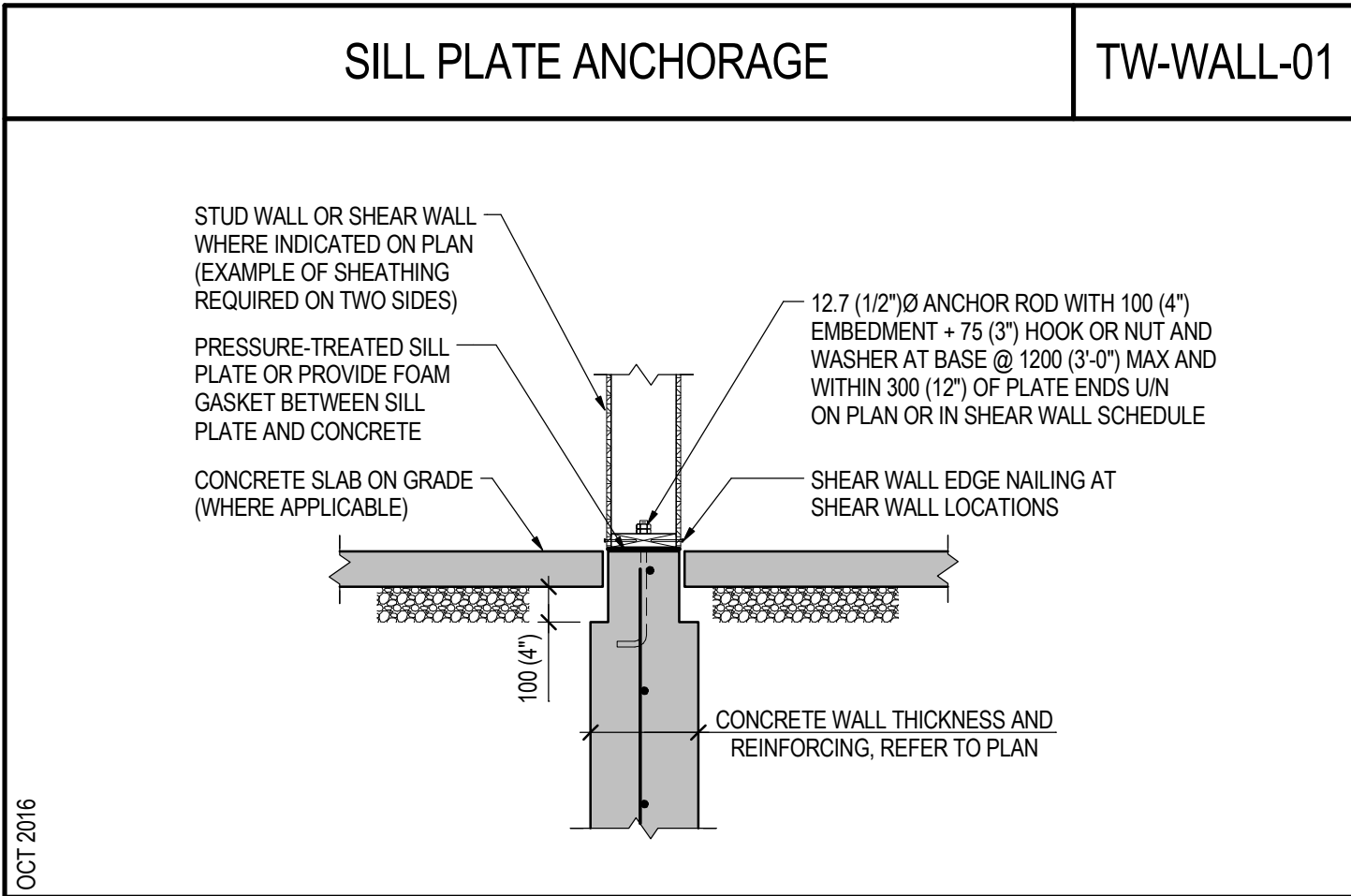
BAR SIZE	$f_c = 25$		$f_c = 30$ AND HIGHER	
	$f_c = 25$	$f_c = 30$ AND HIGHER	$f_c = 25$	$f_c = 30$ AND HIGHER
10	220 (8")	200 (8")	220 (8")	200 (8")
15	310 (12")	280 (11")	310 (12")	280 (11")
20	370 (15")	350 (14")	370 (15")	350 (14")
25	480 (19")	440 (17")	480 (19")	440 (17")
30	570 (23")	530 (21")	570 (23")	530 (21")
35	690 (27")	630 (25")	690 (27")	630 (25")

COMPRESSION LAP SPLICE FOR BAR GRADE 400 MPa

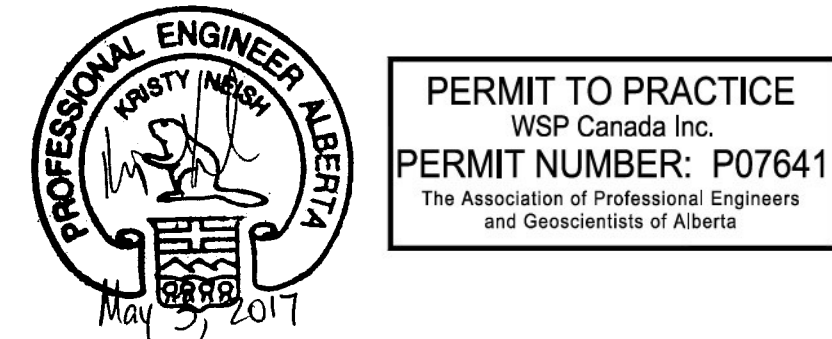
BAR SIZE	STANDARD LAP	
	$f_c = 25$	$f_c = 30$ AND HIGHER
10	300 (12")	200 (8")
15	440 (17")	300 (12")
20	590 (23")	400 (16")
25	730 (29")	500 (20")
30	880 (35")	600 (24")
35	1030 (41")	700 (28")

-FOR BUNDLED BARS, MULTIPLY VALUES IN TABLE BY 10% FOR A TWO BAR BUNDLE, 20% FOR A THREE BAR BUNDLE AND 33% FOR A FOUR BAR BUNDLE

OCT 2016



NOTES



4	2017/05/03	ISSUED FOR TENDER	DAM	KEN
3	2017/03/22	REVISED 90% CLIENT REVIEW	DAM	
2	2017/02/15	90% CLIENT REVIEW	DAM	
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
WSP			
4015 7 STREET SE CALGARY, ALBERTA T2G 2Y9 403.255.7946 www.wspgroup.com			
WSP PROJECT NUMBER: 161-16846-00			

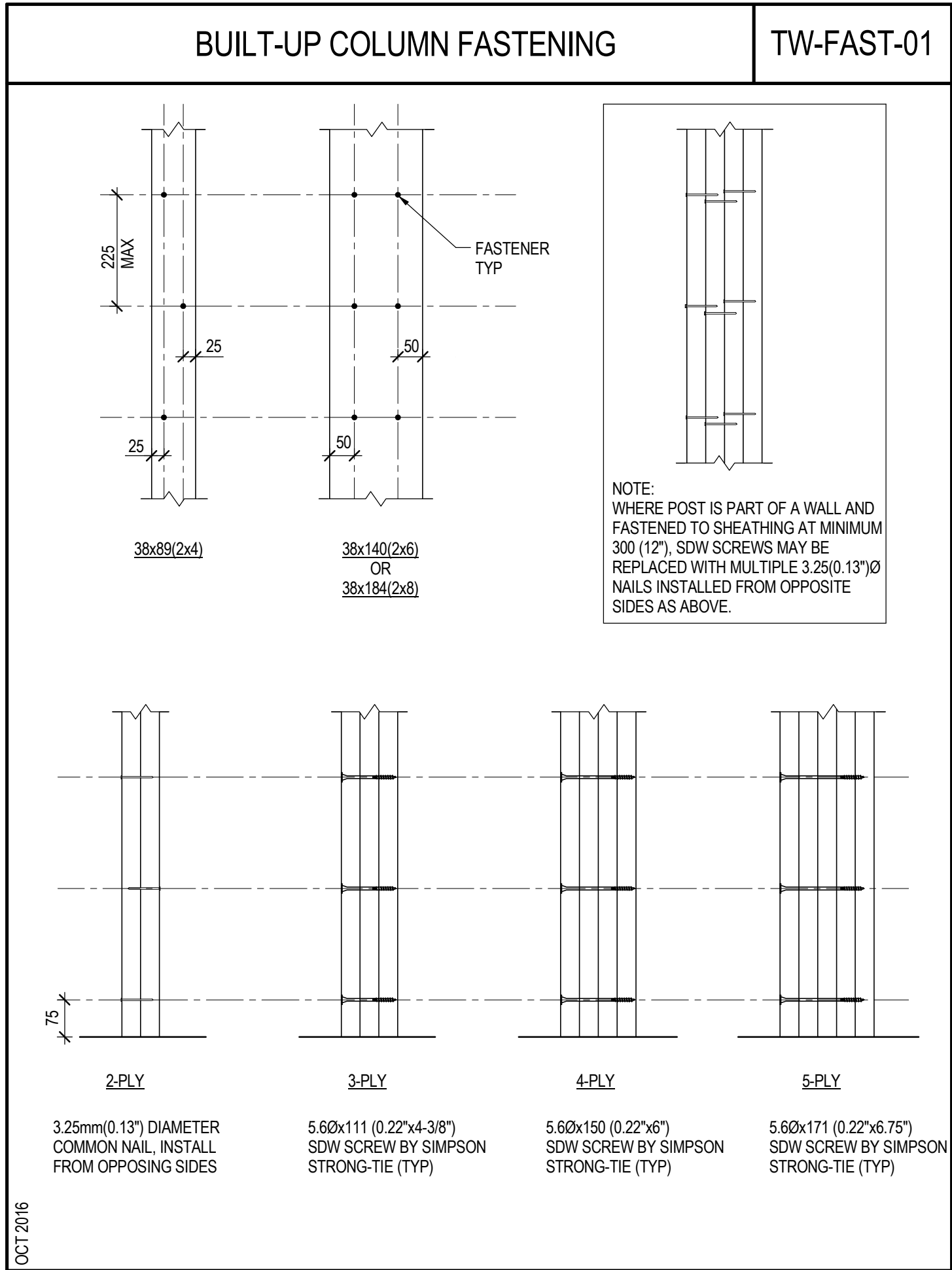
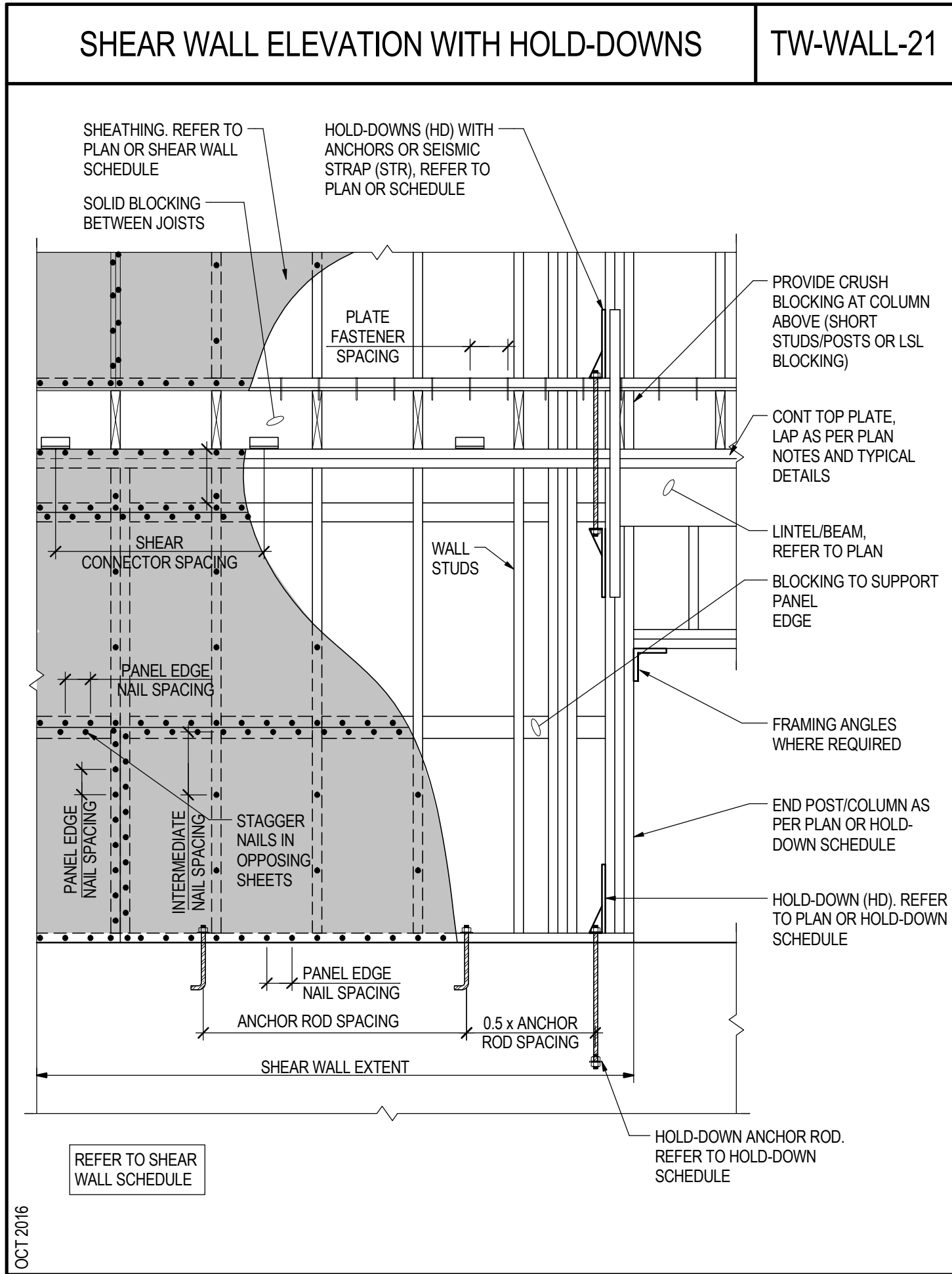
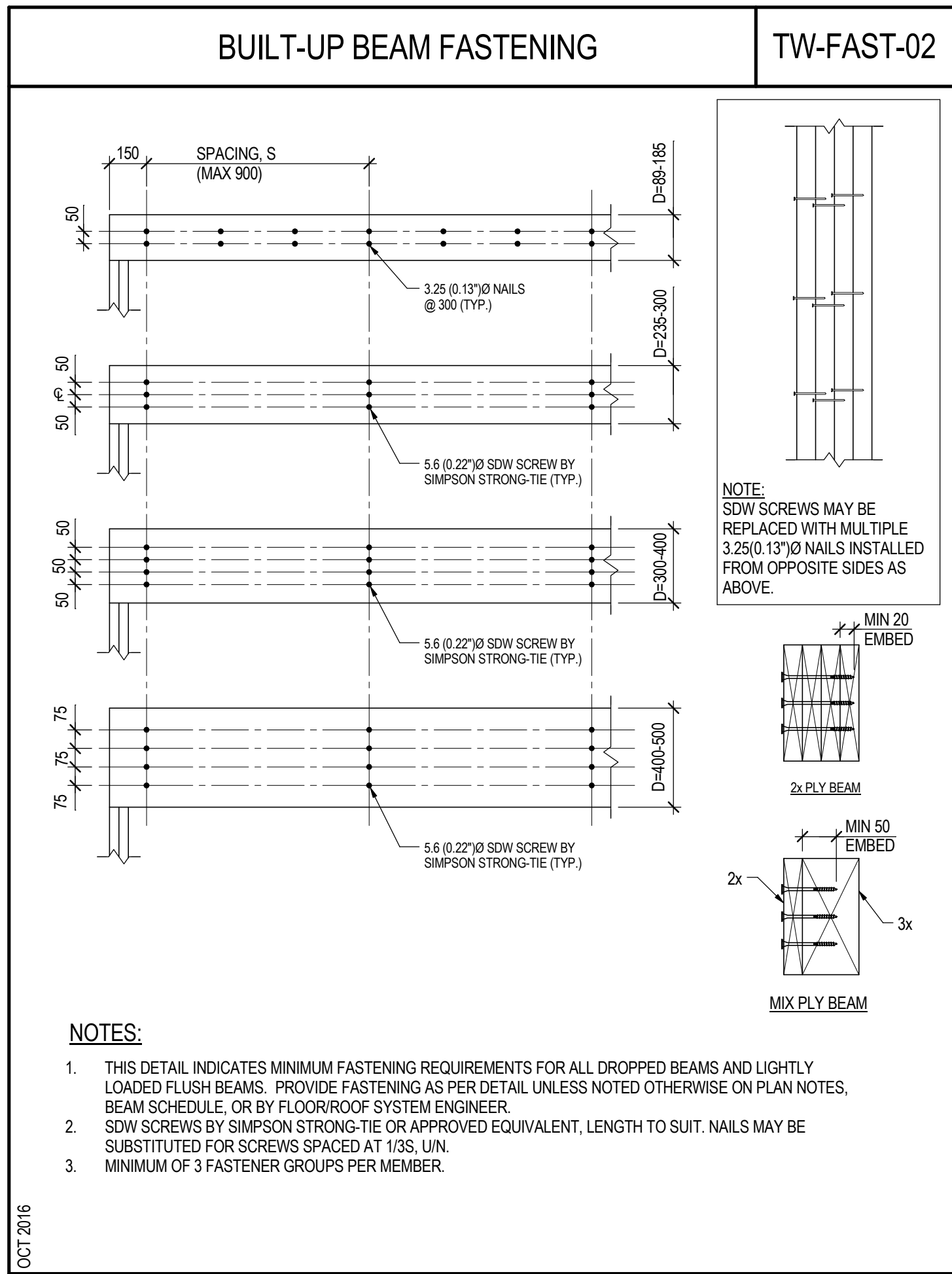
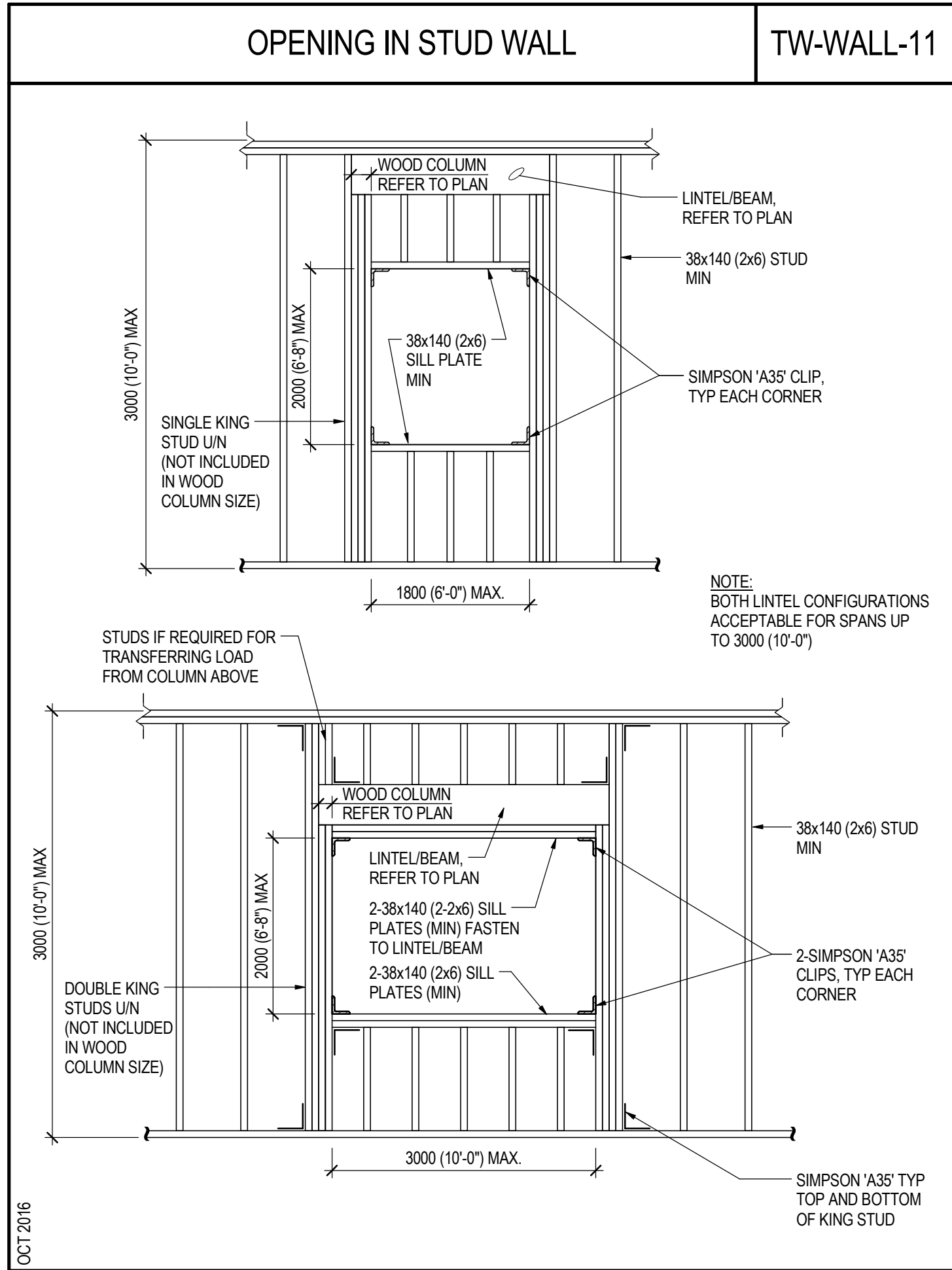
Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
WSP	

Parks Canada Strategic Asset Management, Western and Northern Region	Parcs Canada Gestion Stratégique des Biens, Région de l'Ouest et du Nord
Canada	

ICEFIELD PARKWAY GATE REDEVELOPMENT BANFF NATIONAL PARK

Drawing title/Titre du dessin TYPICAL DETAILS

Surveyed by/Arpenté par KEN	Drawn by/Dessiné par DAM	Date 2017-05-03
Designed by/Conçeut par KEN	Reviewed by/Revisé par	Scale/Echelle N/A
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./N° du projet FII 907/908	Asset No./N° du bien	Sheet No./N° de la feuille 02 of 04
Drawing Set No./N° de série du dessin S-TD-01		



NOTES



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WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional Engineers
and Geoscientists of Alberta

4	2017/05/03	ISSUED FOR TENDER	DAM	KEN
3	2017/03/22	REVISED 90% CLIENT REVIEW	DAM	
2	2017/02/15	90% CLIENT REVIEW	DAM	
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

Detail number
Sheet numberA Numéro de détail
B Numéro de la feuilleLinear dimensions
In millimètresDimensions linéaires
en millimètresConsultant's Name
Nom de l'expert-conseil4015 7 STREET SE
CALGARY, ALBERTA T2G 2Y9
403.255.7946 | www.wspgroup.com

WSP PROJECT NUMBER:161-16846-00

Eng. Stamp
Sceau de l'ingénieur

Parks Canada
Strategic Asset
Management,
Western and Northern
Region

Parcs Canada
Gestion Stratégique
des Biens,
Région de l'Ouest et
du Nord

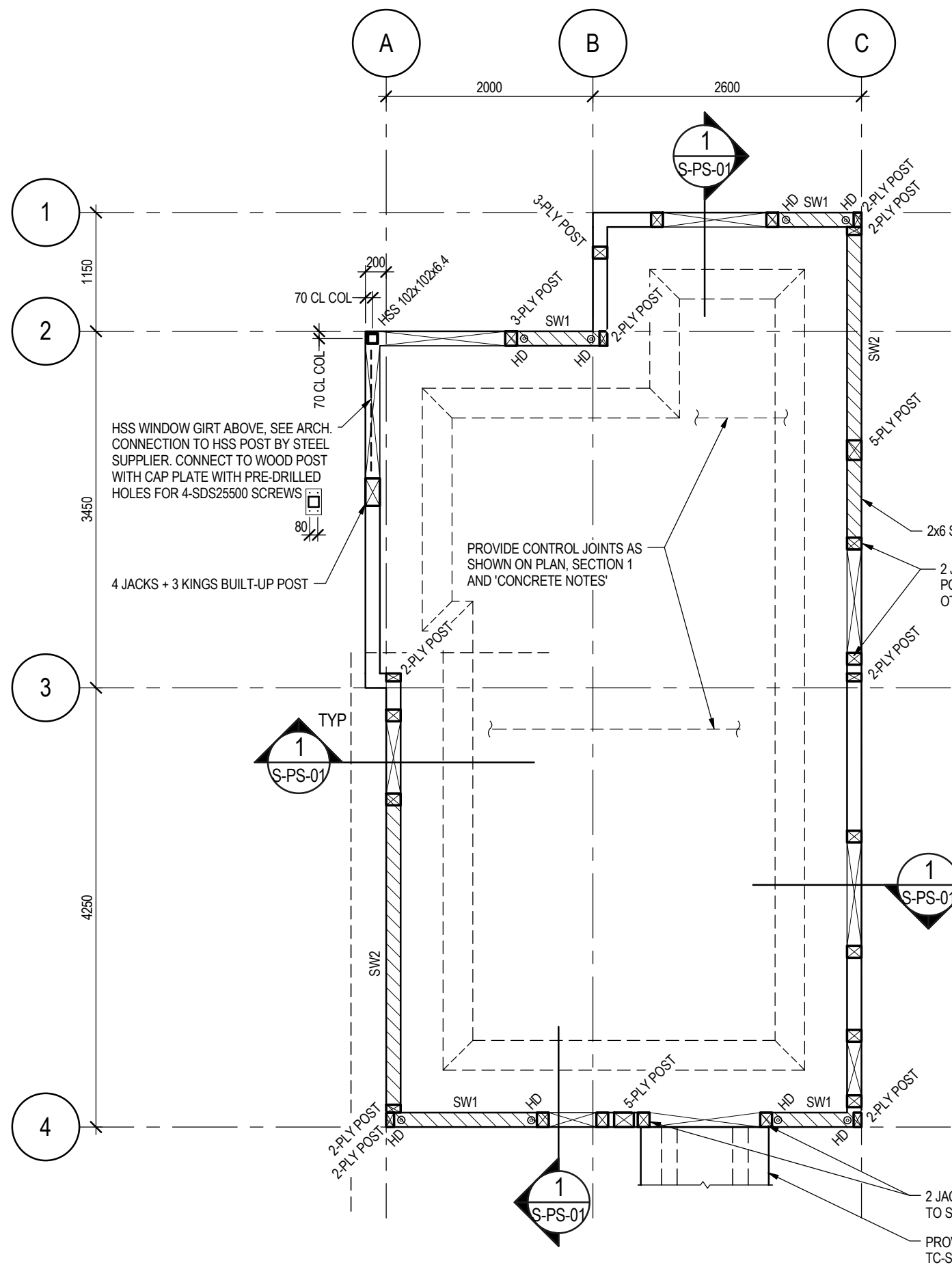
Canada

ICEFIELD PARKWAY
GATE REDEVELOPMENT
BANFF NATIONAL PARK

Drawing title/Titre du dessin

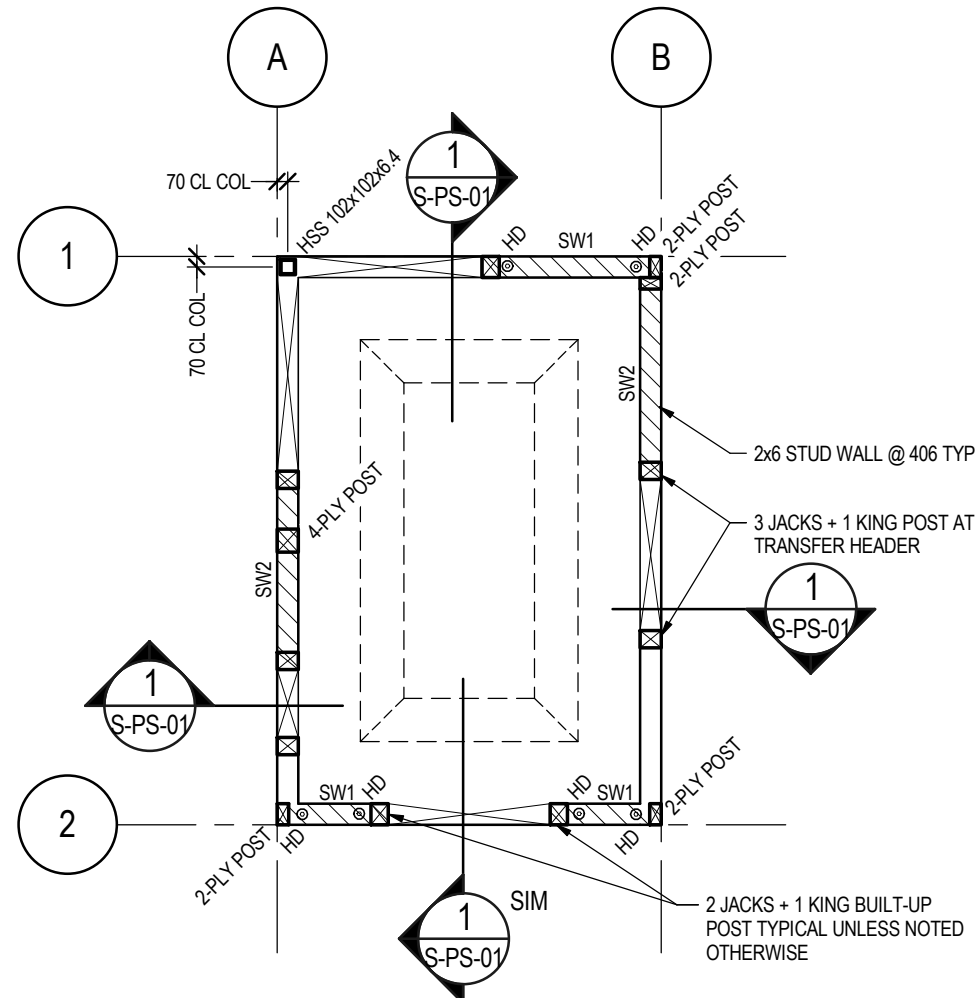
TYPICAL DETAILS

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		



LARGE KIOSK - FOUNDATION AND MAIN FLOOR PLAN

1:50

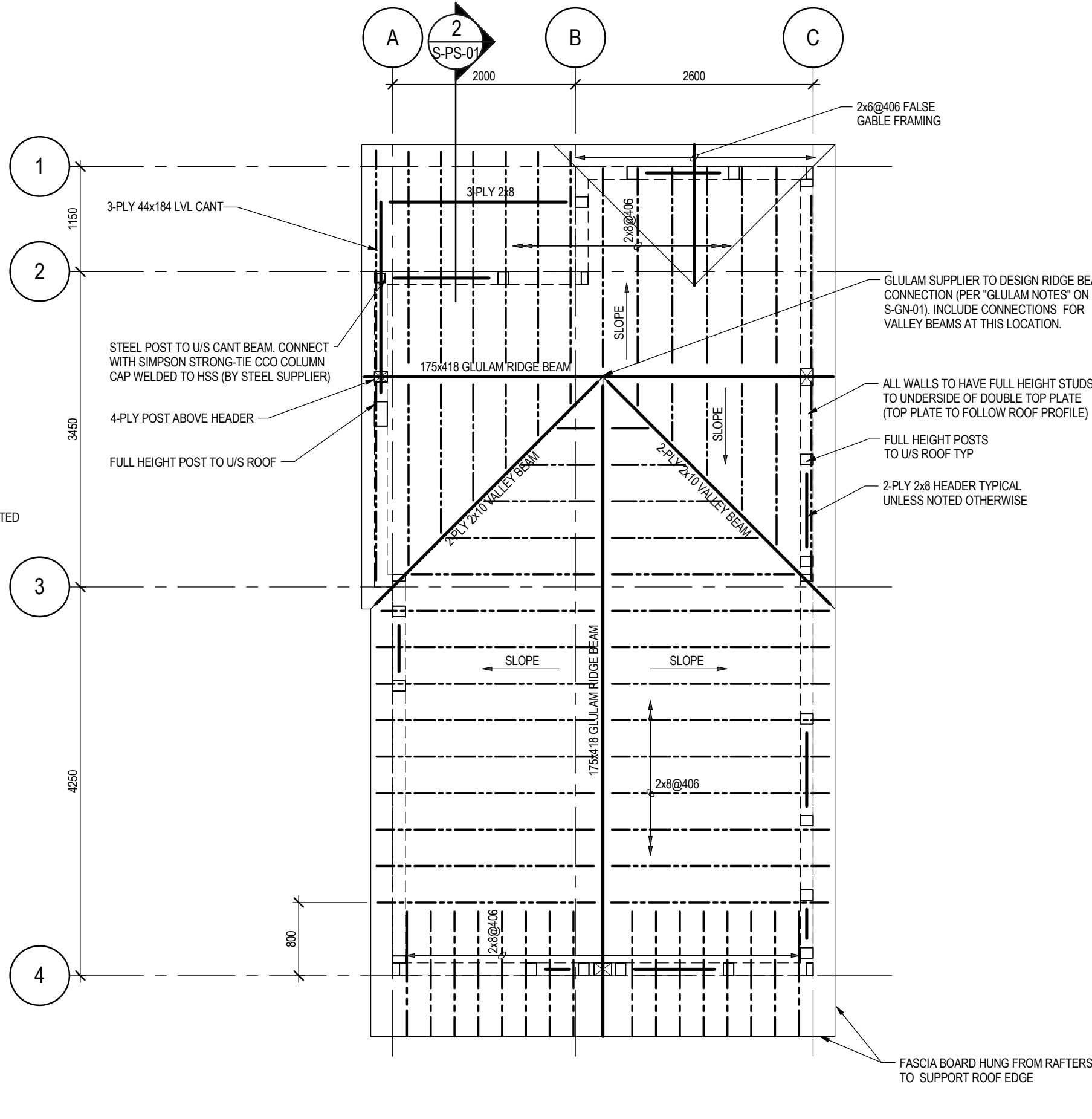


SMALL KIOSK - FOUNDATION AND MAIN FLOOR PLAN

1:50

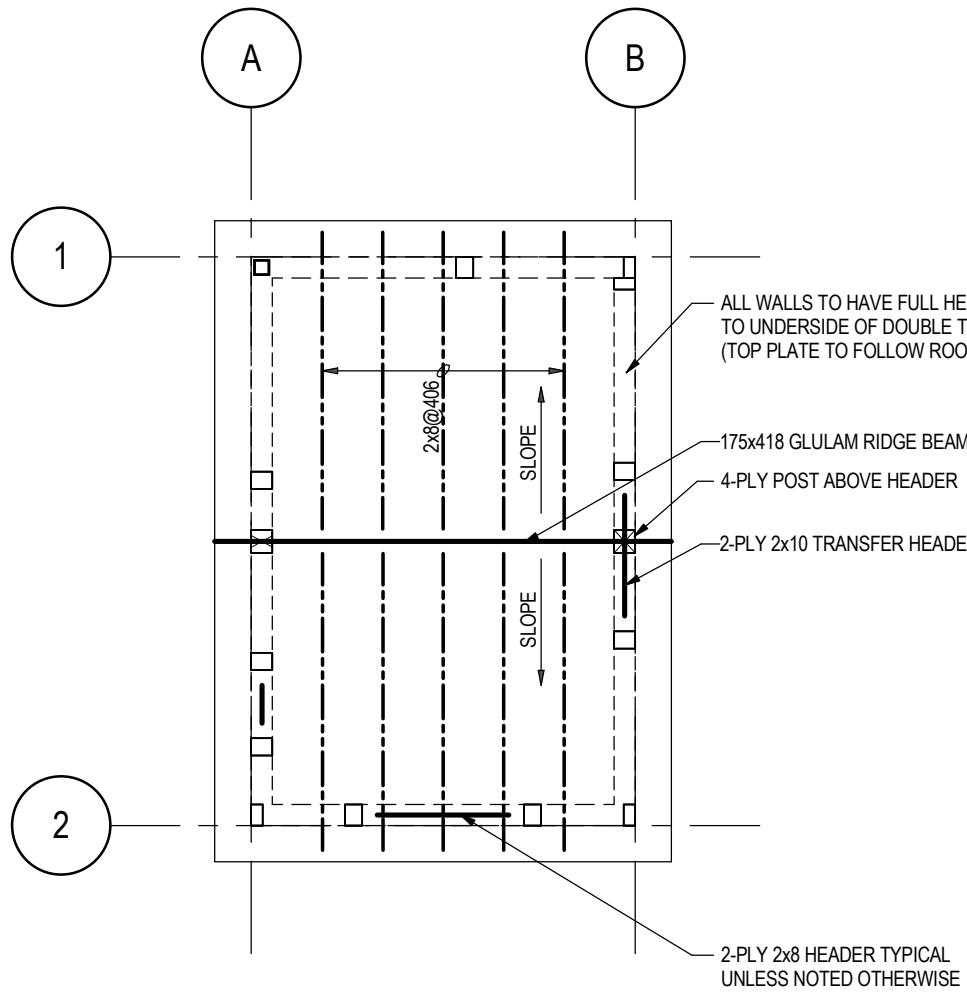
FOUNDATION AND MAIN FLOOR PLAN NOTES

- SEE GENERAL NOTES ON S-GN-01.
SEE TYPICAL DETAILS ON S-TD-01 AND S-TD-02.
- MAIN FLOOR DATUM ELEVATION IS 0100.
- UNLESS NOTED OTHERWISE ON PLAN, DESIGN LOADS ARE:
LIVE LOAD (LL) = 4.8 kN/m²
SUPERIMPOSED DEAD LOAD (SDL) = 0.3 kN/m²
PARTITION LOAD IS INCLUDED IN THE LL
- PROVIDE MINIMUM 125 THICK CONCRETE SLAB-ON-GRADE (SOG)
REINFORCED WITH 10M@400 MID-DEPTH UNLESS NOTED OTHERWISE.
- TOP OF SOG IS 40 FROM DATUM ELEVATION EXCEPT WHERE NOTED AS ON PLAN. REFER TO ARCHITECTURAL DRAWINGS FOR SLOPES FOR DRAINAGE WHICH ARE NOT NECESSARILY INDICATED ON STRUCTURAL DRAWINGS. MAINTAIN THE SLAB THICKNESS SPECIFIED.
- REFER TO CONCRETE NOTES AND TYPICAL DETAILS FOR CONSTRUCTION JOINT AND CONTROL JOINT REQUIREMENTS. COORDINATE JOINT LOCATIONS WITH THE ARCHITECT.
- REFER TO FOUNDATION GENERAL NOTES FOR REQUIRED BEARING RESISTANCE OF PERIMETER STRIP FOOTING.
- FOR STEEL COLUMNS, PROVIDE MINIMUM 16 THICK BASE PLATE COMPLETE WITH 120 ANCHOR RODS EMBEDDED 300 WITH DOUBLE NUT AND STANDARD WASHER.



LARGE KIOSK - ROOF FRAMING PLAN

1:50

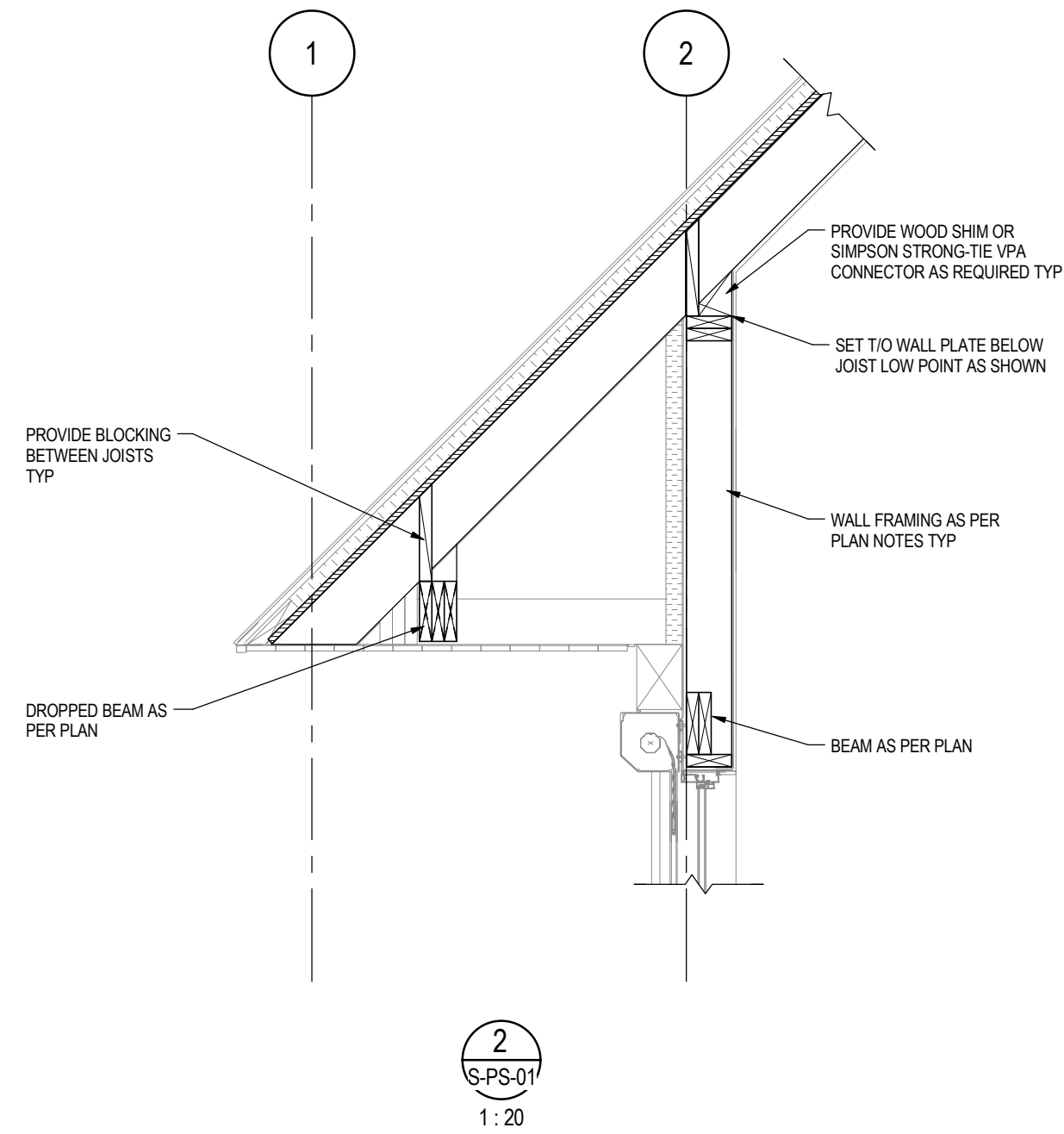
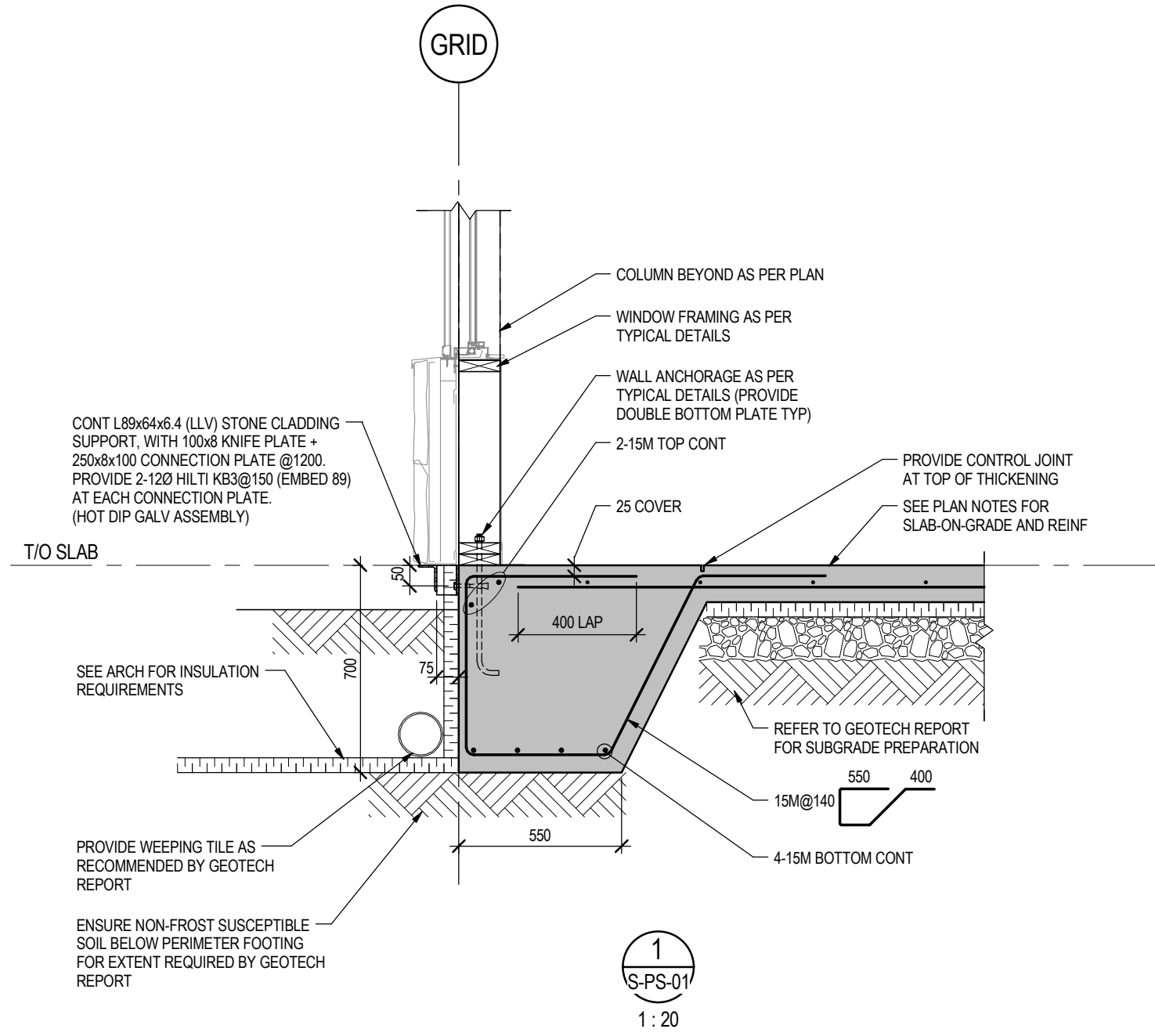


SMALL KIOSK - ROOF FRAMING PLAN

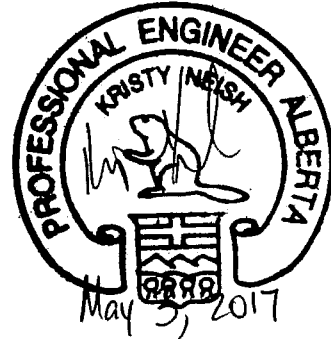
1:50

ROOF FRAMING PLAN NOTES

- SEE GENERAL NOTES ON S-GN-01.
SEE TYPICAL DETAILS ON S-TD-01 AND S-TD-02.
- UNLESS NOTED OTHERWISE ON PLAN, DESIGN LOADS ARE:
LIVE LOAD (SNOW) = 2.9 kN/m² MINIMUM
+ SNOW PILING AREAS NOTED ON PLAN
SUPERIMPOSED DEAD LOAD = 0.65 kN/m²
SELF WEIGHT = 0.25 kN/m²
- TRIM SIDES OF OPENINGS IN SHEATHING WITH 2x6 TRIMMERS. COORDINATE OPENINGS WITH ARCHITECTURAL / MECHANICAL / ELECTRICAL DRAWINGS.
- "SW_" ON PLAN DENOTES WOOD SHEAR WALL. REFER TO TYPICAL DETAIL TW-WALL-21. PROVIDE 12 (127) SHEATHING INSTALLED EITHER HORIZ OR VERT WITH JOINTS STAGGERED @ 1200 (4'-0"). USE 8d NAILS FOR PANEL NAILING, AND PROVIDE ANCHOR RODS AS PER TW-WALL-01, AT THE SPACINGS NOTED BELOW:
SW1: PANEL NAILING @ 75 (3") EDGE NAILING AND @ 300 (12") INTERIOR NAILING. PROVIDE MINIMUM 3 ANCHOR RODS AT EACH SHEAR WALL.
SW2: PANEL NAILING @ 150 (6") EDGE NAILING AND @ 300 (12") INTERIOR NAILING. PROVIDE ANCHOR RODS AT 1200 (4'-0") MAX.
- FOR STEEL COLUMNS, PROVIDE MINIMUM 16 THICK BASE PLATE COMPLETE WITH 120 ANCHOR RODS EMBEDDED 300 WITH DOUBLE NUT AND STANDARD WASHER.
- WOOD STUD WALLS:
7.1. ONLY LOAD BEARING WALLS ARE SHOWN ON PLAN. PROVIDE 2x6 @400 (16") WALL STUDS TYPICAL. REFER TO ARCHITECTURAL DRAWINGS FOR ALL NON-LOAD BEARING WALLS AND REQUIREMENTS.
7.2. PROVIDE 2-PLY TOP PLATE. CONNECT BUILT UP TOP PLATES TOGETHER WITH ONE ROW OF 75 (3") NAILS SPACED NOT MORE THAN 300 APART. WHERE TOP PLATES ARE SPLICED, ALIGN JOINTS OVER WALL STUDS WITH MINIMUM 800 BETWEEN UPPER AND LOWER PLATE SPLICES.
7.3. UNLESS OTHERWISE NOTED ON PLAN OR IN SECTIONS, CONNECT WOOD STUD WALLS TO CONCRETE STRUCTURE BELOW AS PER TYPICAL DETAIL TW-WALL-11. ALTERNATIVELY, POST-INSTALLED ANCHORS WITH THE SAME DIAMETER AND SPACING MAY BE USED. SUBMIT FOR REVIEW. REFER TO SHEAR WALL SCHEDULE FOR ADDITIONAL ANCHORAGE AT SHEAR WALLS.
7.4. FOR EXTERIOR WALLS THAT ARE NOT SHEAR WALLS, PROVIDE SHEATHING ON EXTERIOR SIDE. FASTEN TO SUPPORTING FRAMING AS PER PART 9.
7.5. PROVIDE 16 (508) TONGUE AND GROOVE PLYWOOD UNBLOCKED ROOF SHEATHING. GLUE AND NAIL TO SUPPORTING FRAMING WITH 84 (2 1/2") LONG NAILS @ 150 (6") CENTRES AT ALL PANEL EDGES AND @ 300 (6") CENTRES AT INTERMEDIATE SUPPORTS. SHEATHING TO BE ORIENTED WITH LONG DIMENSION PERPENDICULAR TO ROOF JOISTS.



NOTES



PERMIT TO PRACTICE
WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional Engineers
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4	2017/05/03	ISSUED FOR TENDER	DAM	KEN
3	2017/03/22	REVISED 90% CLIENT REVIEW	DAM	
2	2017/02/15	90% CLIENT REVIEW	DAM	
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

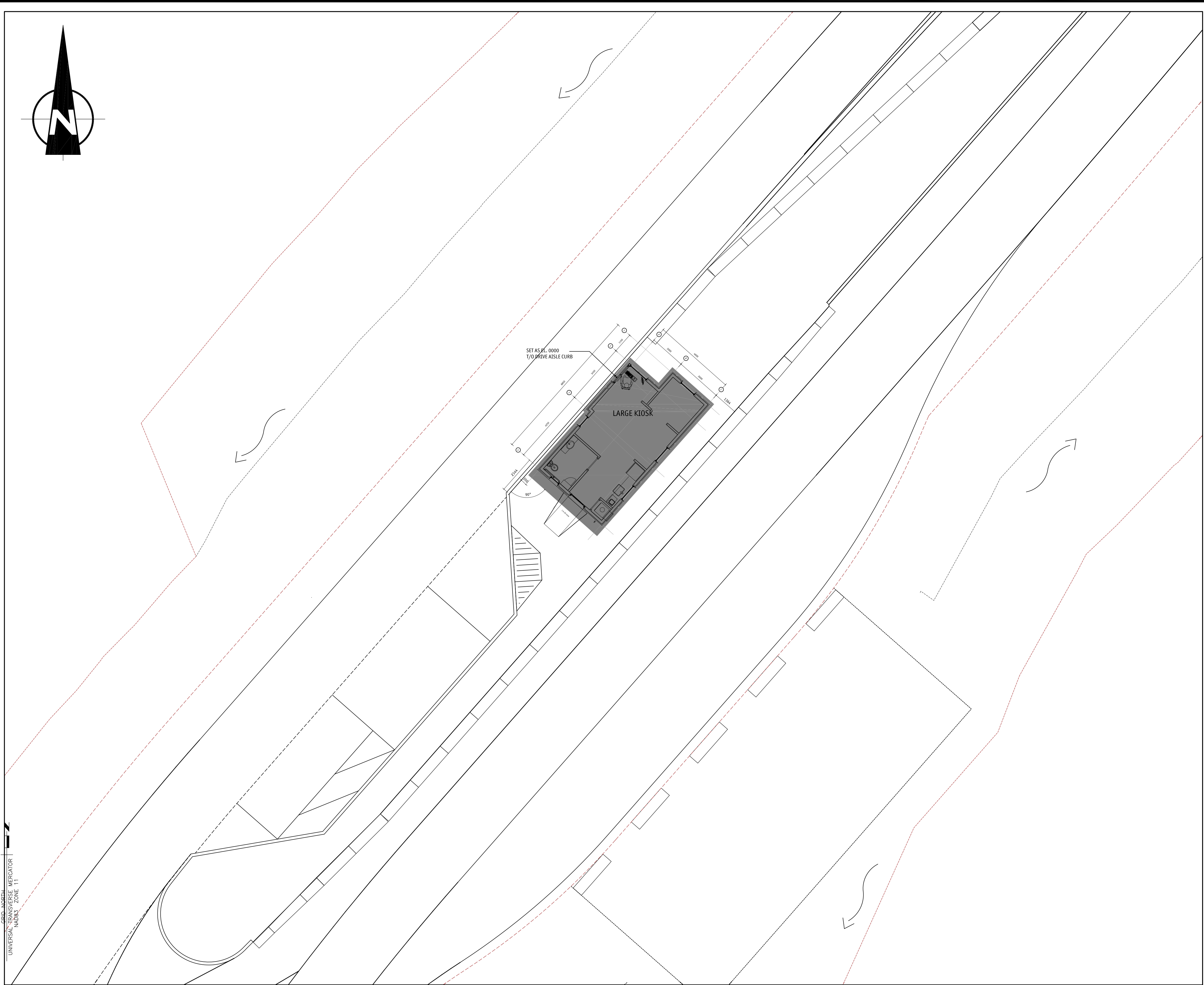
A	B	Detail number Sheet number	A Numéro de détail B Numéro de la feuille
Linear dimensions In millimètres		Dimensions linéaires en millimètres	
Consultant's Name Nom de l'expert-conseil		Eng. Stamp Sceau de l'ingénieur	
WSP		WSP PROJECT NUMBER: 161-16846-00	

Parks Canada Strategic Asset Management, Western and Northern Region	Parcs Canada Gestion Stratégique des Biens, Région de l'Ouest et du Nord
Canada	

ICEFIELD PARKWAY
GATE REDEVELOPMENT
BANFF NATIONAL PARK

Drawing title/Titre du dessin
PLANS AND SECTIONS

Surveyed by/Arpenté par KEN	Drawn by/Dessiné par DAM	Date 2017-05-03
Designed by/Concept par KEN	Reviewed by/Revisé par	Scale/Echelle N/A
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Project No./N° du projet FII 907/908		Asset No./N° du bien
Drawing Set No./N° de série du dessin S-PS-01		Sheet No./N° de la feuille 04 of 04



GRID NORTH
UNIVERSAL TRANSVERSE MERCATOR
MAGNETIC ZONE 11

NOTES
1.

D	2017/05/03	ISSUED FOR TENDER	CC	JM
C	2017/03/22	90% DRAWING SUBMISSION CLIENT REVIEW	CC	
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

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

Linear dimensions in millimetres	Dimensions linéaires en millimètres
-------------------------------------	--

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

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EDMONTON, B.C.
T5T 0M7
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EMAIL: info@meiklejohn.ca

m+m a
MEIKLEJOHN ARCHITECTS INC.

Parks Canada
Strategic Asset
Management,
Western and Northern
Region

Parcs Canada
Gestion Stratégique
des Biens,
Région de l'Ouest et
du Nord

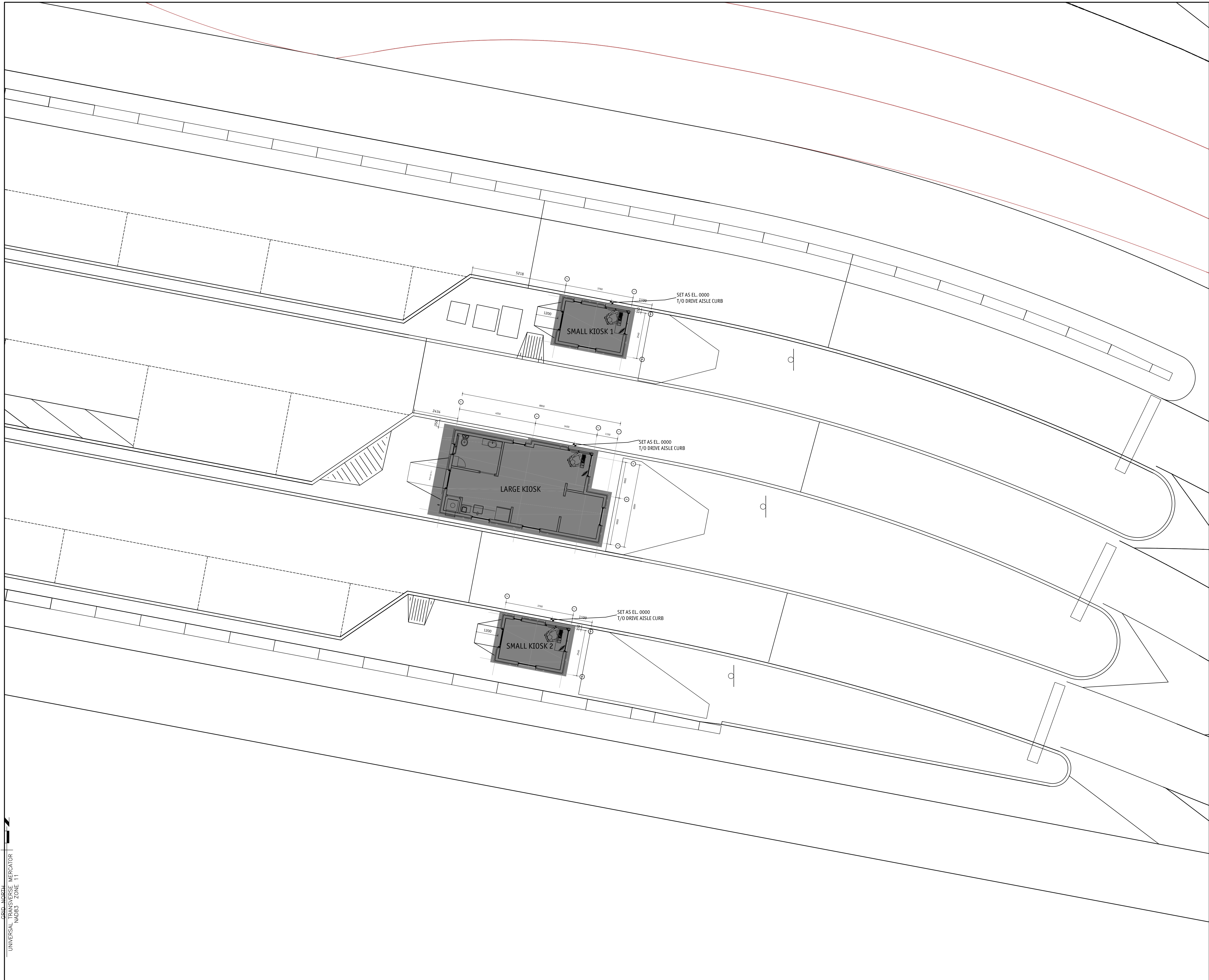
Canada

ICEFIELD PARKWAY GATE REDEVELOPMENT BANFF NATIONAL PARK

Drawing title/Titre du dessin





PROPOSED DAVID THOMPSON HIGHWAY SITE PLAN

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
	Collin Crabbe	2016-12-07
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
Collin Crabbe	JM	1:100
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
FII 907/908		
Drawing Set No./N° de série du dessin		01 of 15
A-DSP-01		



NOTES

1.

D	2017/05/03	ISSUED FOR TENDER	CC	JM
C	2017/03/22	90% DRAWING SUBMISSION CLIENT REVIEW	CC	
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				
A	Detail number Sheet number	A Numéro de détail B Numéro de la feuille		
Linear dimensions in millimetres		Dimensions linéaires en millimètres		
<div>Consultant's Name Nom de l'expert-conseil</div> <div>210 HORN STREET EDMONTON, B.C. T6A 1S2 TEL: (204) 462-2343 FAX: (204) 462-2344 EMAIL: info@meiklejohn.ca 225 BROADWAY AVENUE EDMONTON, B.C. T6C 1G7 TEL: (204) 462-2343 FAX: (204) 462-2347 EMAIL: info@meiklejohn.ca</div>			<div>Eng. Stamp Sceau de l'ingénieur</div> <div> MEIKLEJOHN ARCHITECTS INC.</div>	
 Parks Canada Strategic Asset Management, Western and Northern Region		 Parcs Canada Gestion Stratégique des Biens, Région de l'Ouest et du Nord		
				
ICEFIELD PARKWAY GATE REDEVELOPMENT BANFF NATIONAL PARK				
Drawing title/Titre du dessin PROPOSED NIBLOCK SITE PLAN				
Surveyed by/Arpente par Collin Crabbe		Drawn by/Dessiné par Collin Crabbe		Date 2016-12-07
Designed by/Concept par Collin Crabbe		Reviewed by/Revisé par JM		Scale/Echelle 1:100
Client Acceptance/Acceptation du client			Approved by/Approuvé par	
Date			Date	
Project No./N° du projet FII 907/908		Asset No./N° du bien		Sheet No./ N° de la feuille 02 of 15
Drawing Set No./N° de série du dessin A-NSP-01				

FLOOR PLAN LEGENDS	
	DOOR NUMBER
	BUILDING SECTION SYMBOL: SECTION NUMBER DRAWING WHERE SECTION APPEARS
	GRIDLINES
	DETAIL NUMBER DRAWING WHERE DETAIL APPEARS
	INTERIOR ELEVATION NUMBER & REFERENCE SHEET NUMBER (DRAWING WHERE INTERIOR ELEVATION APPEARS)
	EXTERIOR WALL CONSTRUCTION -SEE SCHEDULE
	INTERIOR WALL CONSTRUCTION -SEE SCHEDULE
	EXTERIOR WINDOW REFERENCE -SEE SCHEDULE

GENERAL NOTES:	
A.	REFER TO STRUCTURAL PLANS FOR ALL STUD SPACING, STRUCTURAL COLUMNS, BEAMS, LINTELS, ETC..
B.	REFER TO ELECTRICAL PLANS FOR ALL EXIT SIGNAGE, EMERGENCY LIGHTING, SMOKE DETECTORS, FIRE ALARMS, AUDIBLE AND VISUAL ALARMS, SPEAKERS, ETC.
C.	REFER TO ELECTRICAL PLANS FOR ELECTRICAL LAYOUTS, FIXTURE TYPES, SPECIFICATIONS AND DETAILS.
D.	REFER TO MECH PLANS FOR RETURN AND SUPPLY / REGISTER LOCATIONS.
G.	REFER TO MECHANICAL DRAWINGS FOR ALL MECHANICAL PIPE AND DUCT LOCATIONS, FIXTURE TYPES, SPECIFICATIONS, DETAILS.
H.	FRAMING CONTRACTOR TO SUPPLY AND INSTALL FURNISHING AND BLOCKING AT ALL WALL MOUNTED CABINETS, ACCESSORIES, ETC., AND COORDINATE WITH SUPPLIERS.
I.	PROVIDE DENS-SHIELD BOARD AT ALL WET LOCATIONS, WHEN SHOWER IS AGAINST RATED PARTITION APPLY "FIRE RATED" DENS-SHIELD BOARD TO MAINTAIN CONTINUOUS FIRE RATING AS PER WALL SCHEDULE.
J.	DO NOT STOP ALL NOLES IN SHIRTS, AND OTHER PENETRATIONS THROUGH RATED ASSEMBLIES, PROVIDE FIRESTOPPING DETAILS FOR ARCHITECTS' REVIEW AND APPROVAL.
K.	ENSURE FINISH GRADES SLOPE AWAY FROM BUILDING.
L.	ALIGN DIFFERENT WALL TYPES TO ENSURE FINISHES WILL LINE UP. U.N.O.
M.	BRACE WALLS AS REQUIRED.
N.	PROVIDE DEFLECTION HEAD AT TOP OF STUDS, AS REQUIRED, TO UNDERSIDE OF STRUCTURE AT EXTERIOR AND INTERIOR WALLS.
P.	ALL FINISH FLOORING TO RUN UNDER APPLIANCES AND JOINERY/CABINETS, INSTALL APPLIANCES AFTER INSTALLATION OF FINISH FLOORING.
PROVIDE MIN. 2 BEADS OF ACOUSTIC CAULK UNDER ALL PARTY WALL BOTTOM WALL PLATES.	
O.	S.C.C. TO SCHEDULE MECH-UPS FOR ALL CORNERS, EXTERIOR FINISH INTERCHANGES AND WALL / ROOF OPENINGS FOR REVIEW BY ARCHITECT.
P.	LOOSE FURNITURE SHOWN FOR LAYOUT PURPOSES, NOT INCLUDED IN SCOPE UNLESS NOTED IN SPECIFICATION.

INTERIOR FINISH SCHEDULE:		
- REFER TO SPECIFICATIONS FOR MATERIAL DETAILS		
- REFER TO CONSTRUCTION ASSEMBLIES		
<div><div>DENOTES FLOOR FINISH</div><div><div>DENOTES WALL BASE</div></div><div>DENOTES WALL FINISH</div></div>		
FLOORING:		
cnc	concrete	
hwd	engineered hardwood	
ftl	floor tile	
c/p	carpet	
WALL BASE:		
mwf	paint mdf as per specification	
wtl	wall tile	
WALL FINISH:		
gyp	paint gypsum, allow for 3 colours per suite	
wtl	wall tile	
LEGEND:		
hwd	cnc	flooring transition

TYPICAL WALL ASSEMBLIES	
GENERAL NOTES:	
1.	SEE STRUCT. FOR ALL PLYWOOD SHEATHING, LOAD BEARING STUD WALL SIZES, SPACING AND FRAMING DETAILS.
2.	WALL FINISHES (SEE INTERIOR)
3.	PROVIDE SOLID WOOD BLOCKING FOR ALL ACCESSORIES/FIXTURES/EQUIPMENT MOUNTED ON WOOD FRAMED PARTITIONS.
4.	HELLWORK SUPPLIER TO PROVIDE BLOCKING LOCATIONS PRIOR TO FRAMING COMPLETION.
5.	SHEAR WALL LOCATIONS TO BE CONFIRMED BY STRUCT. (GWB NOTED IN WALL ASSEMBLIES TO BE APPLIED OVER SHEAR PLYWOOD, SEE STRUCT.)
6.	ENSURE GWB FACE MATCHES CORRIDOR / PARTY WALL FACE WHERE APPLICABLE (SEE PLANS)
7.	ADD PLYWOOD SPACERS OVER FACE OF STUDS AS REQUIRED TO ALIGN WALL FINISHES.
8.	PROVIDE ACOUSTIC CAULK UNDER WOOD BASE PLATES OF ALL WALLS TO MITIGATE HARBOURING OF BED BUGS (SEE SPECS.)

EXTERIOR WALL TYPES	
	EXTERIOR CEMENT BOARD WALL: CEMENT BOARD LAP SIDING 3/8" x 4" VERTICAL PT PLYWOOD STRAPPING FASTENED TO STUD 2" HIGH DENSITY MINERAL WOOL SELF ADHERED AIR BARRIER 1/2" EXT. GRADE PLYWOOD SHEATHING 2X6 WOOD STUDS @ 16" O.C. MAX. (SEE STRUCT.) MINERAL WOOL INSULATION TO FILL CAVITY 6 MIL POLY VAPOUR BARRIER 1 LAYER 5/8" TYPE "X" GWB
	TYPICAL STONE WALL: 2" RUNDLE ROCK STONE MORTAR SCREED COAT METAL LATH WITH GALV. SCREWS 3/4" PT PLYWOOD GALVANIZED INTERMITTENT CLIP AND VERTICAL RAIL CW NEOPRENE ISOLATION WASHER 3/4" DRAINAGE GAP 2" HIGH DENSITY MINERAL WOOL SELF ADHERED AIR BARRIER 1/2" EXT. GRADE PLYWOOD SHEATHING 2X6 WOOD STUDS @ 16" O.C. MAX. (SEE STRUCT.) MINERAL WOOL INSULATION TO FILL CAVITY 6 MIL POLY VAPOUR BARRIER 1 LAYER 5/8" TYPE "X" GWB
	EXTERIOR BOARD AND BATTEN WALL: 2 1/2" WIDE BATTENS FIBRE CEMENT PANEL 3 X 3/4" PT PLYWOOD STRAPPING FASTENED TO STUD 2" MINERAL WOOL SELF ADHERED AIR BARRIER 1/2" EXT. GRADE PLYWOOD SHEATHING 2X6 WOOD STUDS @ 16" O.C. MAX. (SEE STRUCT.) MINERAL WOOL INSULATION TO FILL CAVITY 6 MIL POLY VAPOUR BARRIER 1 LAYER 5/8" TYPE "X" GWB

INTERIOR WALL TYPES	
	INTERIOR WALL: 1 LAYER 1/2" G.W.B 2X4 WOOD STUDS @ 16" OC FILL CAVITY W/ MINERAL WOOL INSULATION 1 LAYER 1/2" G.W.B
	1 LAYER 1/2" G.W.B 2X4 WOOD STUDS @ 16" OC 1 LAYER 1/2" G.W.B

FLOOR ASSEMBLIES CONSTRUCTION TYPES:	
	GROUND FLOOR CONC. SLAB: R-13 CERAMIC TILE FLOORING FUSION PRO GROUT THINSET MORTAR ELECTRICAL HEATING MAT THINSET MORTAR CONC. SLAB (SEE STRUCT.) 2" XPS INSULATION MIN R-8 PER INCH, GPSI COMPRESSIVE UNGL POLY VAPOUR BARRIER SEALED @ EDGES & PENETRATIONS

ROOF ASSEMBLIES CONSTRUCTION TYPES:	
	ROOFING: R39 6" EXPOSURE COMPOSITE SLATE SHINGLES ROOFING UNDERLAYMENT: 5/8" T+G PLYWOOD 2 1/2" XPS INSULATION 5/8" T+G PLYWOOD 2X8 ROOF BATTENS 7" OF MINERAL WOOL INSULATION HAT TRACK FLOORING WHERE REQUIRED TO LEVEL 6 MIL POLY VAPOUR BARRIER 1 LAYER 5/8" TYPE X GYPSUM

DOOR SCHEDULE											
NOTE: PROVIDE SHOP DRAWINGS FOR ARCHITECT APPROVAL PRIOR TO FABRICATION. ALL DOORS SUBJECT TO REVIEW FOR COMPLIANCE WITH OWNERS.											
DOOR TYPE								DOOR FRAME			
DOOR NO.	WIDTH	HEIGHT	THICKNESS	F.B.R.	TYPE	MATERIAL	FINISH	CORE	MATERIAL	FINISH	KEY NOTES
D1.01	934	2135	45		A	HW	P	PD07U	PS	P	1,7,8,9,10,11,12,13,15
D1.02	712	2135	45		B	SCW	ST	SCW	WOOD	ST	2
D1.03	833	2135	45		B	SCW	ST	SCW	WOOD	ST	2
D1.04	934	2135	45		A	HW	P	PD07U	PS	P	1,7,8,9,10,11,12,13,15

HARDWARE KEY NOTES	
NOTE: ALL HARDWARE TO BE APPROVED BY OWNER / ARCHITECT PRIOR TO FABRICATION. I.L.C. TO PROVIDE SHOP DRAWINGS FOR REVIEW	
ALL DOORS TO BE FACTORY FINISHED & GUN PAINTED WHERE APPLICABLE (I.L.C. TO COORDINATE WITH DOOR MANUFACTURER)	
1.	PASSAGE SET
2.	POWDER SET (BATHROOMS ONLY)
3.	NOT USED
4.	NOT USED
5.	ONE-WAY "FEARLESS" LOCKSET
6.	POWDER SET
7.	POWDER SET
8.	POWDER SET
9.	POWDER SET
10.	POWDER SET
11.	POWDER SET
12.	POWDER SET
13.	POWDER SET
14.	POWDER SET
15.	POWDER SET

LEGENDS	
SCW	SOLID CORE WOOD
P	PAINTED FINISH
PS	PRESSURE TREATED
HW	HOLLOW METAL
ST	STAINLESS STEEL
PRE	PRE-FINISHED
PD07U	PD07U FINISH INSULATION

BUILDING CODE REVIEW	
OCCUPANCY	GROUP D, 3, 2, 2.60
ARTICLE	DIVISION B PART 3
NO. OF STOREYS	1
NO. OF STREETS PACING	1
MAX. BUILDING AREA	1000 sqm
CONSTRUCTION TYPE	COMBUSTIBLE OR NON-COMBUSTIBLE
SPRINKLERED	NO
ASSEMBLY RATINGS:	
FLOOR	N/A
WALLS / BEARING STRUCTURE	N/A
ROOFS	N/A
SINGLE EXIT ALLOWED	N/A

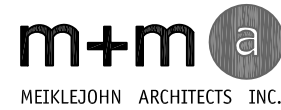
OCCUPANT LOAD		3.1.17.1
LARGE KIOSK	35sqm / 9.3sqm PER PERSON	4 persons
SMALL KIOSK	7.7sqm / 9.3sqm PER PERSON	1 person
TOTAL DAVID THOMPSON LOAD		4 persons
TOTAL NIBLOCK LOAD		6 persons

WATER CLOSETS		3.7.2.2.4
3 MALE/3 FEMALE	1 REQUIRED	1 PROVIDED
	ACCESSIBLE	YES

MNECB SUMMARY		
	REQUIRED	PROPOSED
ZONE	7A (5000-9999 HDD)	
WALLS	MAX U VALUE 0.210	0.20
ROOFS	MAX U VALUE 0.162	0.15
SLAB AND FOUNDATIONS	MAX U VALUE 0.757	0.43
FENESTRATION	MAX U VALUE 2.2	MAX 2.0
DOORS	MAX U VALUE 2.2	MAX 2.0

ICEFIELD PARKWAY GATE REDEVELOPMENT BANFF NATIONAL PARK NIBLOCK AND DAVID THOMPSON HIGHWAY ISSUED FOR TENDER

ARCHITECTURAL



233 BERNARD AVENUE
KELOWNA, B.C.
V1Y 6N2
TEL: 250.762.3004
CONTACT: COLLIN CRABBE

ARCHITECTURAL DRAWINGS
A-DSP-01 DAVID THOMPSON HIGHWAY SITE PLAN
A-HSP-01 NIBLOCK SITE PLAN
A-AWD-01 ASSEMBLIES, CODE OUTLINE, WINDOW-DOOR SCHEDULE
A-P-01 KIOSKS SLAB EDGE PLAN
A-P-02 KIOSKS FLOOR PLAN
A-P-03 KIOSKS REFLECTED CEILING PLAN
A-P-04 KIOSKS ROOFING PLAN
A-P-05 KIOSKS ELEVATIONS
A-S-01 LARGE KIOSK SECTION AND DETAILS
A-S-02 LARGE KIOSK SECTION AND DETAILS
A-S-03 SMALL KIOSK SECTION AND DETAILS
A-WS-01 WALL SECTIONS
A-IE-02 INTERIOR ELEVATIONS AND JOINERY
A-IE-02 JOINERY DETAILS

NOTES

1.

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
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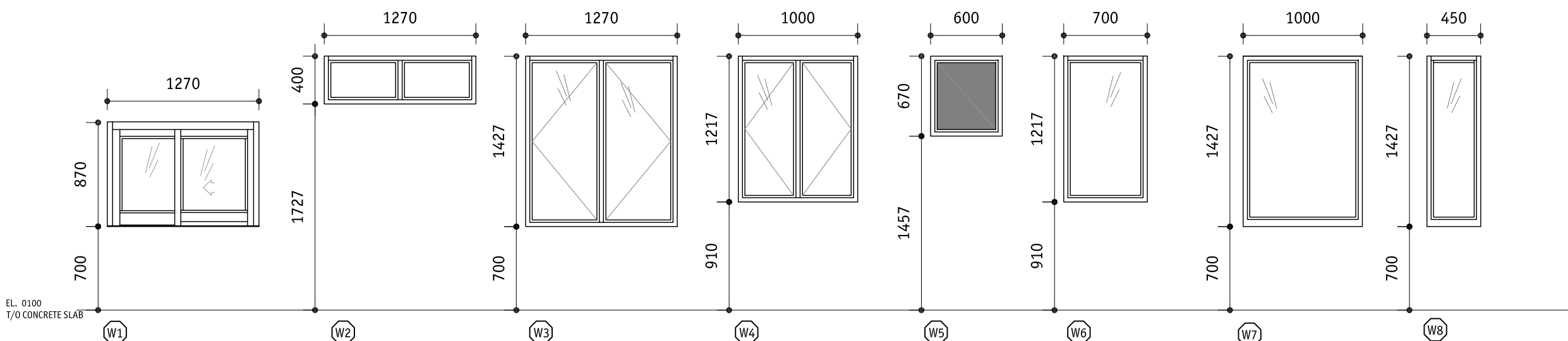
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Linear dimensions in millimetres	
Dimensions linéaires en millimètres	
Consultant's Name Nom de l'expert-conseil	
Eng. Stamp Sceau de l'ingénieur	
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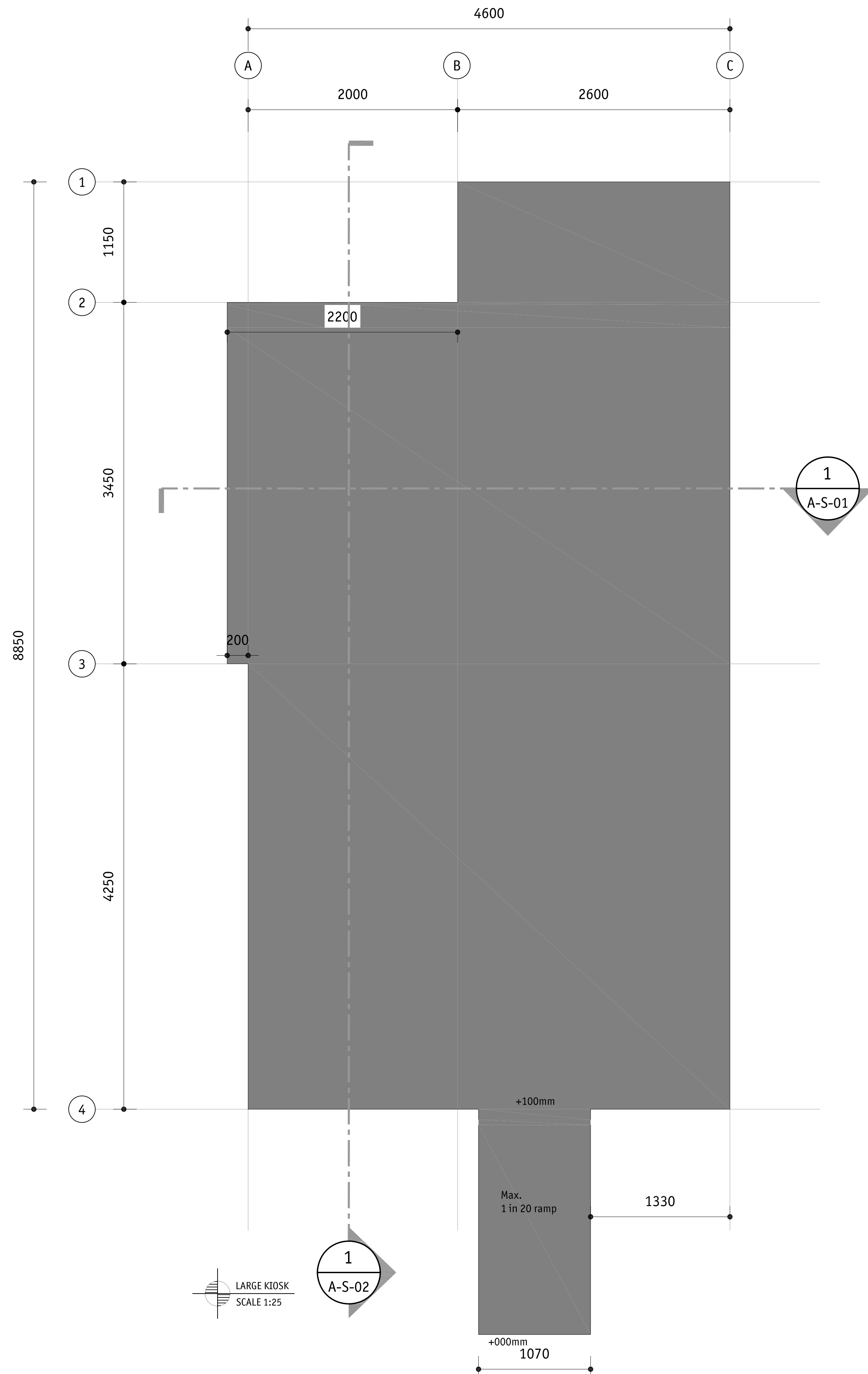
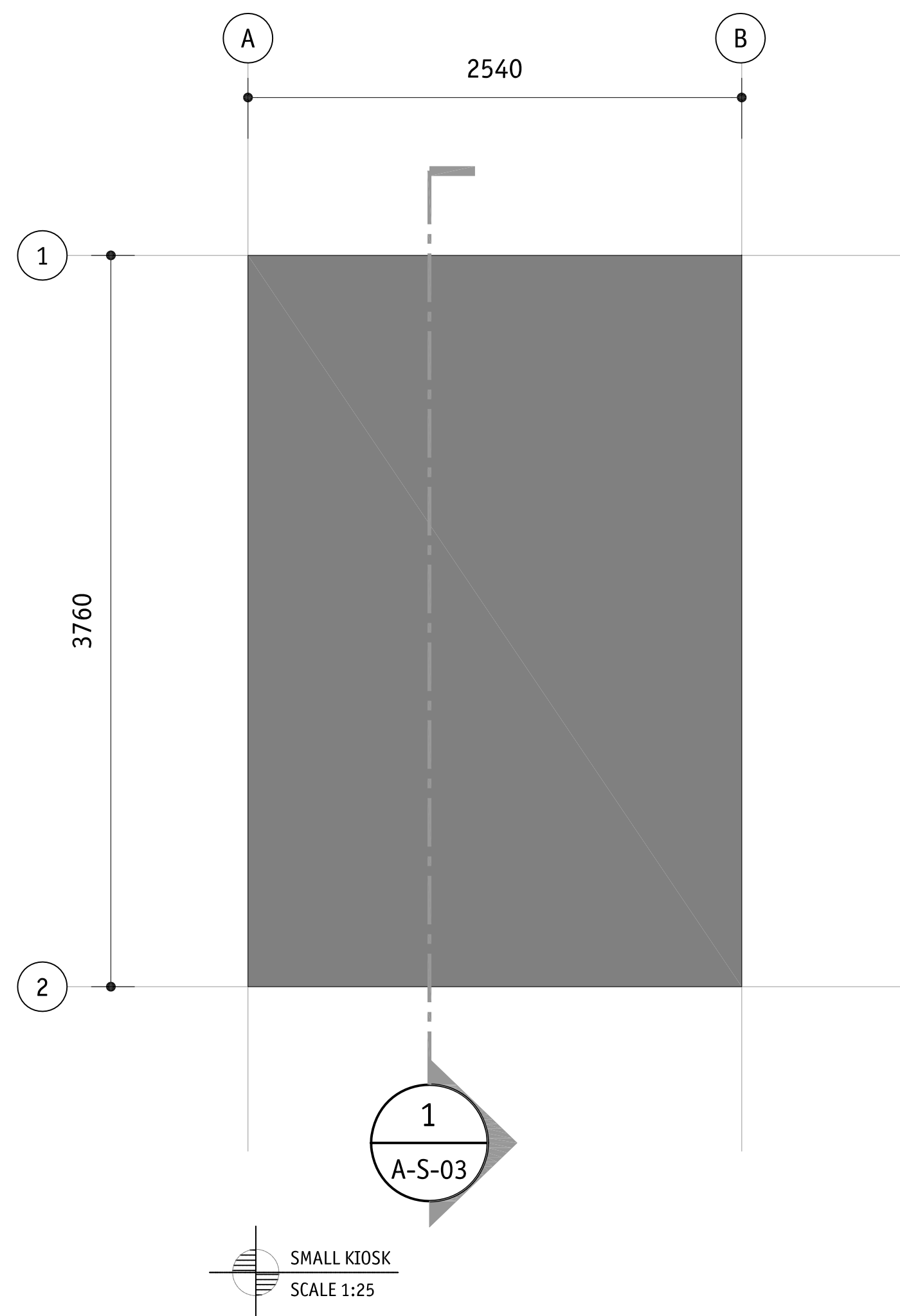
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Canada		

ICEFIELD PARKWAY GATE REDEVELOPMENT BANFF NATIONAL PARK

Drawing title/Titre du dessin			
ASSEMBLIES, CODE OUTLINE WINDOW + DOOR SCHEDULE AND DRAWING LIST			
Surveyed by/Arpente par	Drawn by/Dessine par	Date	
	Collin Crabbe	2016-12-07	
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle	
Collin Crabbe	JM	NTS	
Client Acceptance/Acceptation du client		Approved by/Approuve par	
Date		Date	
Project No./Nº du projet		Sheet No./Nº de la feuille	
FII 907/908			
Drawing Set No./Nº de serie du dessin		03 of 15	
A-AWD-01			




WINDOW SCHEDULE
ALL WINDOWS RECEIVE SECURITY SHUTTERS

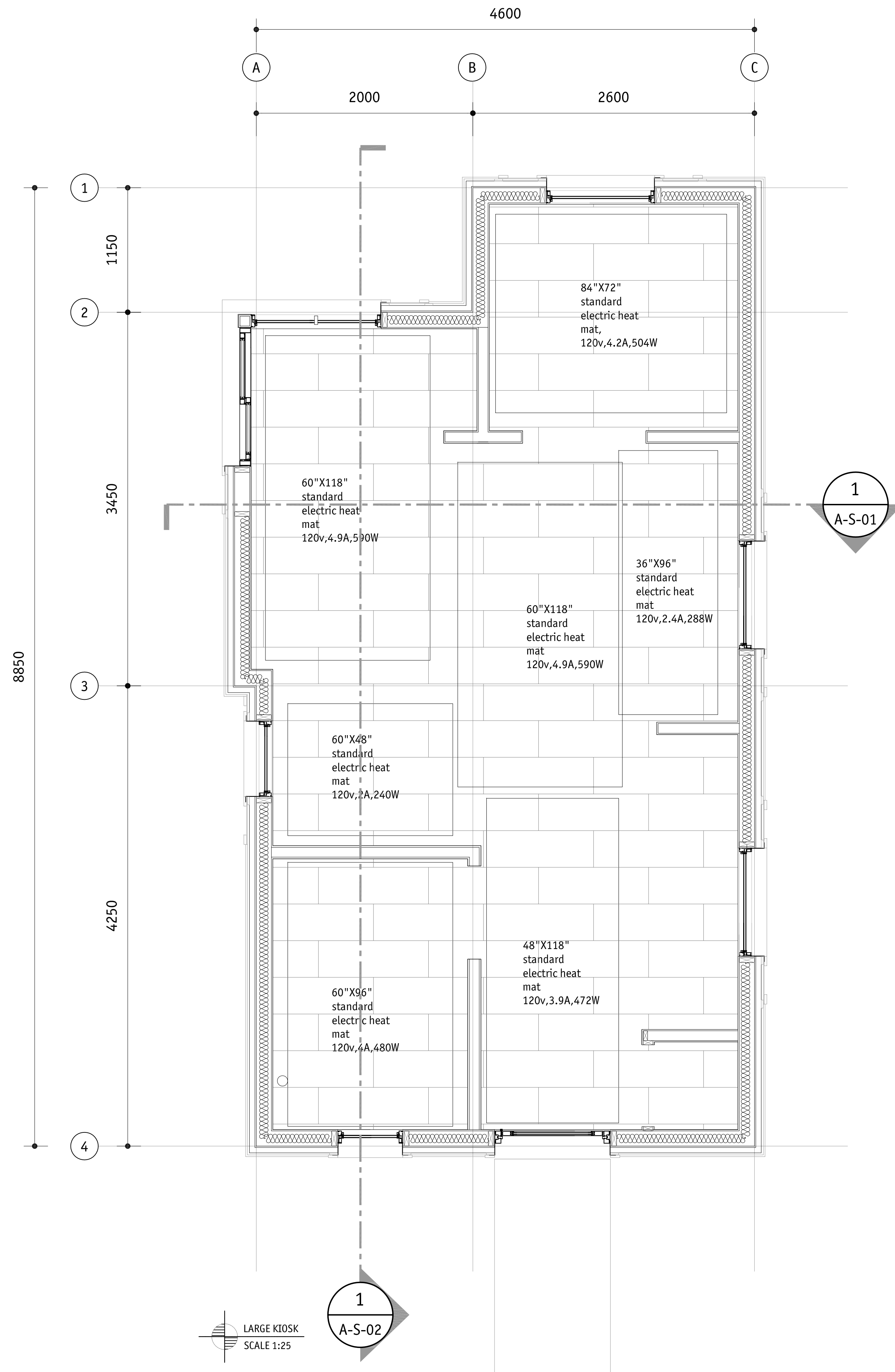
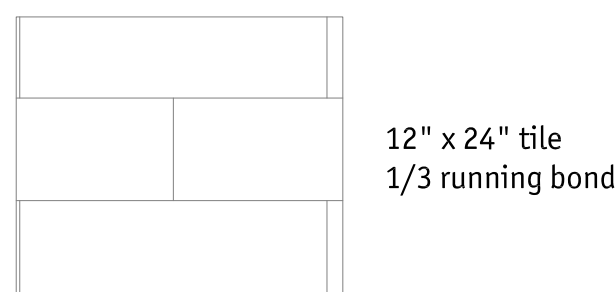
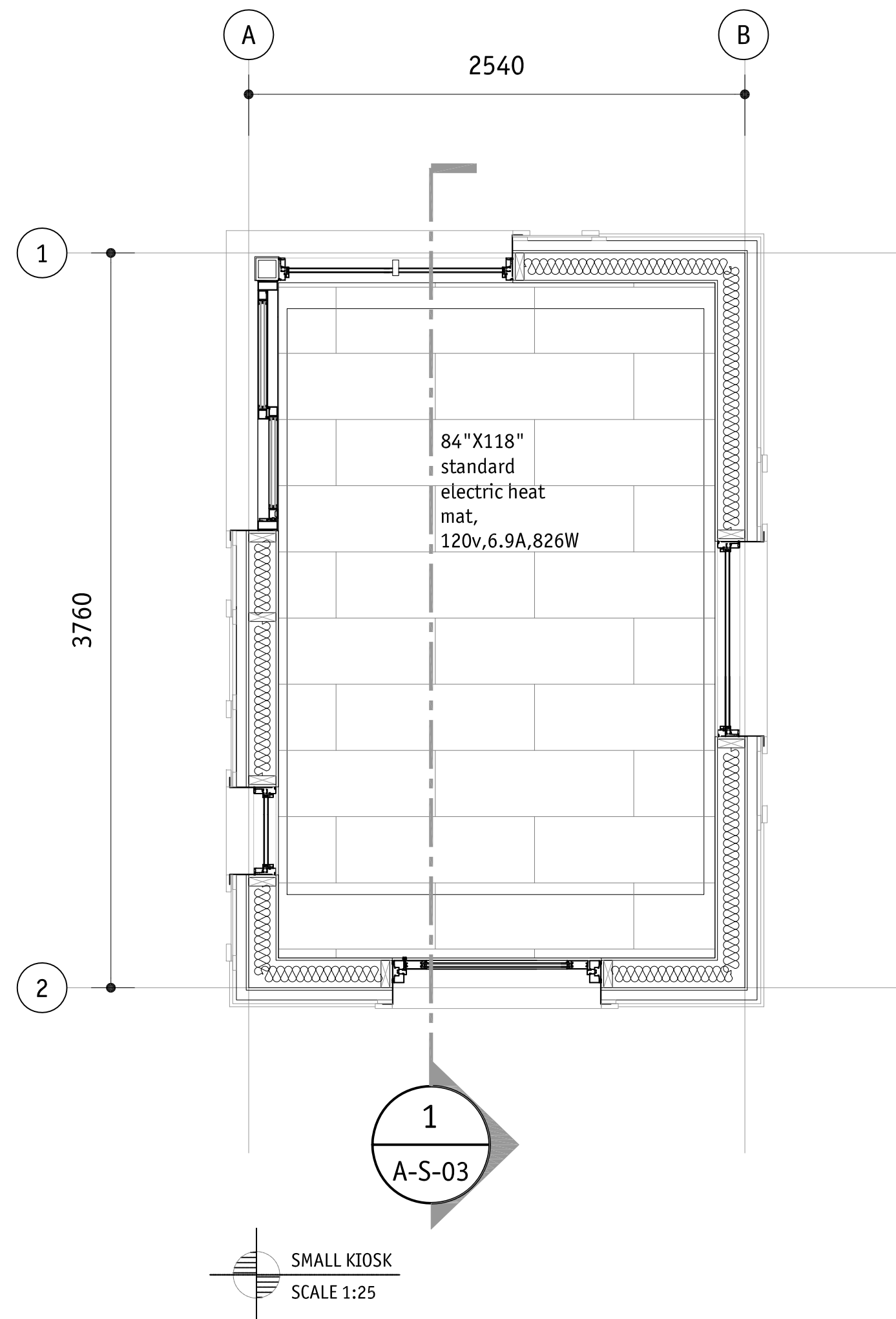




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Revision / Revision				
A	Detail number Sheet number	A Numéro de détail B Numéro de la feuille		
Linear dimensions in millimetres		Dimensions linéaires en millimètres		
Consultant's Name Nom de l'expert-conseil			Eng. Stamp Sceau de l'ingénieur	
<div><div>200 NORTH STREET EDMONTON, B.C. V6A 1S6 TEL: (204) 462-2343 FAX: (204) 462-2344 EMAIL: info@meiklejohn.ca 225 BROADWAY AVENUE EDMONTON, B.C. T5T 0A7 TEL: (204) 462-2343 FAX: (204) 462-2344 WWW.MEIKLEJOHN.COM</div><div><div>m+m</div><div>a</div><div>MEIKLEJOHN ARCHITECTS INC.</div></div></div>				
<div><div> Parks Canada</div><div>Strategic Asset Management, Western and Northern Region</div></div>			<div><div> Parcs Canada</div><div>Gestion Stratégique des Biens, Région de l'Ouest et du Nord</div></div>	
<div><div>Canada</div><div></div></div>				
ICEFIELD PARKWAY GATE REDEVELOPMENT BANFF NATIONAL PARK				
Drawing title/Titre du dessin PROPOSED SLAB PLAN				
Surveyed by/Arpenté par Collin Crabbe		Drawn by/Dessiné par Collin Crabbe		Date 2017-03-22
Designed by/Concept par Collin Crabbe		Reviewed by/Revisé par JM		Scale/Echelle AS NOTED
Client Acceptance/Acceptation du client			Approved by/Approuvé par	
Date			Date	
Project No./N° du projet FII 907/908		Asset No./N° du bien		Sheet No./ N° de la feuille 04 of 15
Drawing Set No./N° de série du dessin A-P-01				



NOTES

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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
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Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
210 HORN STREET EDMONTON, B.C. V6A 1S2 TEL: (204) 462-2343 FAX: (204) 462-2344 EMAIL: info@meiklejohn.ca 225 BROADWAY AVENUE EDMONTON, B.C. T5T 0M7 TEL: (204) 462-2343 FAX: (204) 462-2347 WWW.MEIKLEJOHN.COM	m + m a MEIKLEJOHN ARCHITECTS INC.

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ICEFIELD PARKWAY GATE REDEVELOPMENT BANFF NATIONAL PARK

Drawing title/Titre du dessin

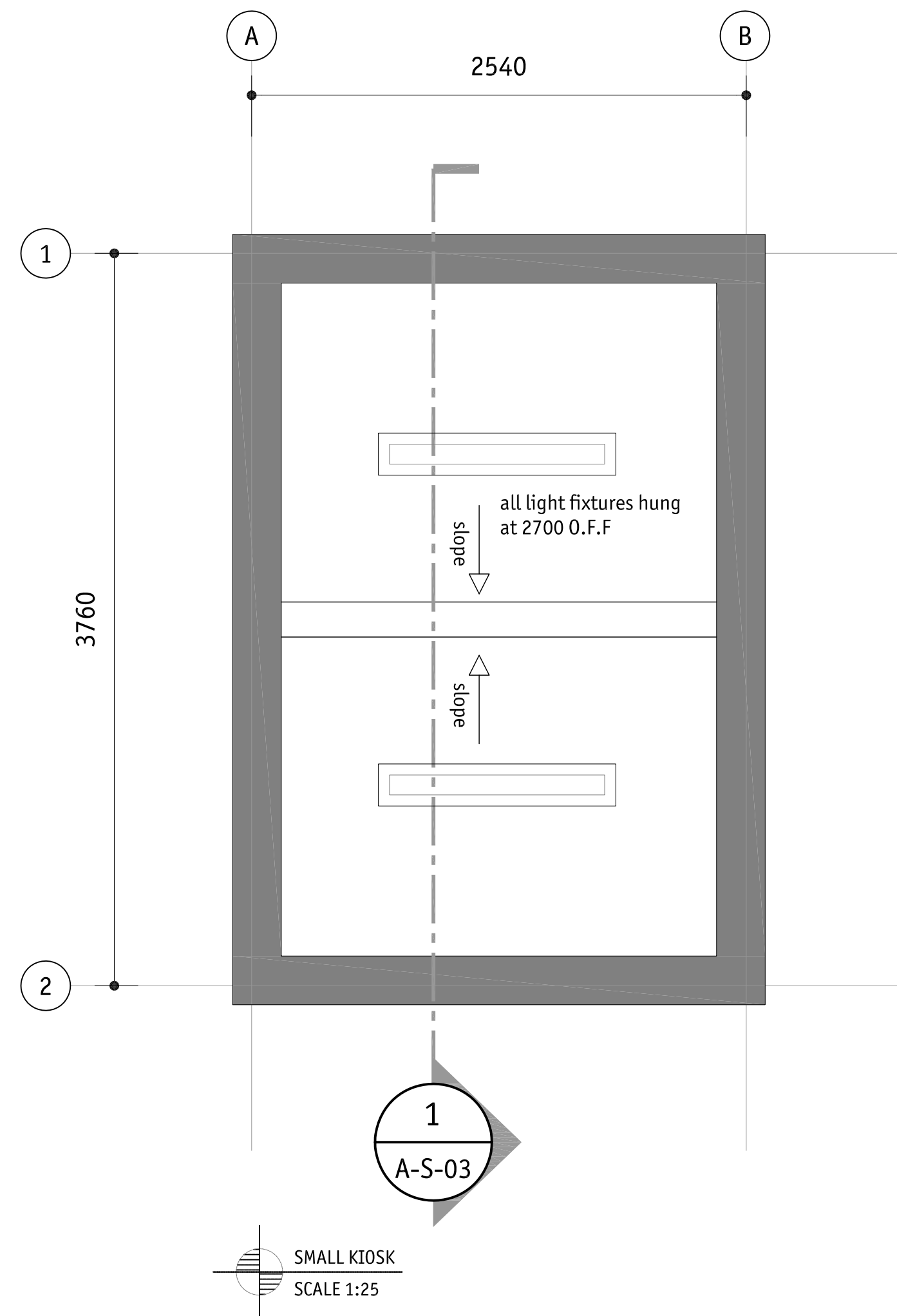
PROPOSED FLOORING PLAN

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
	Collin Crabbe	2017-03-22
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
Collin Crabbe	JM	AS NOTED
Client Acceptance/Acceptation du client	Approved by/Approuvé par	

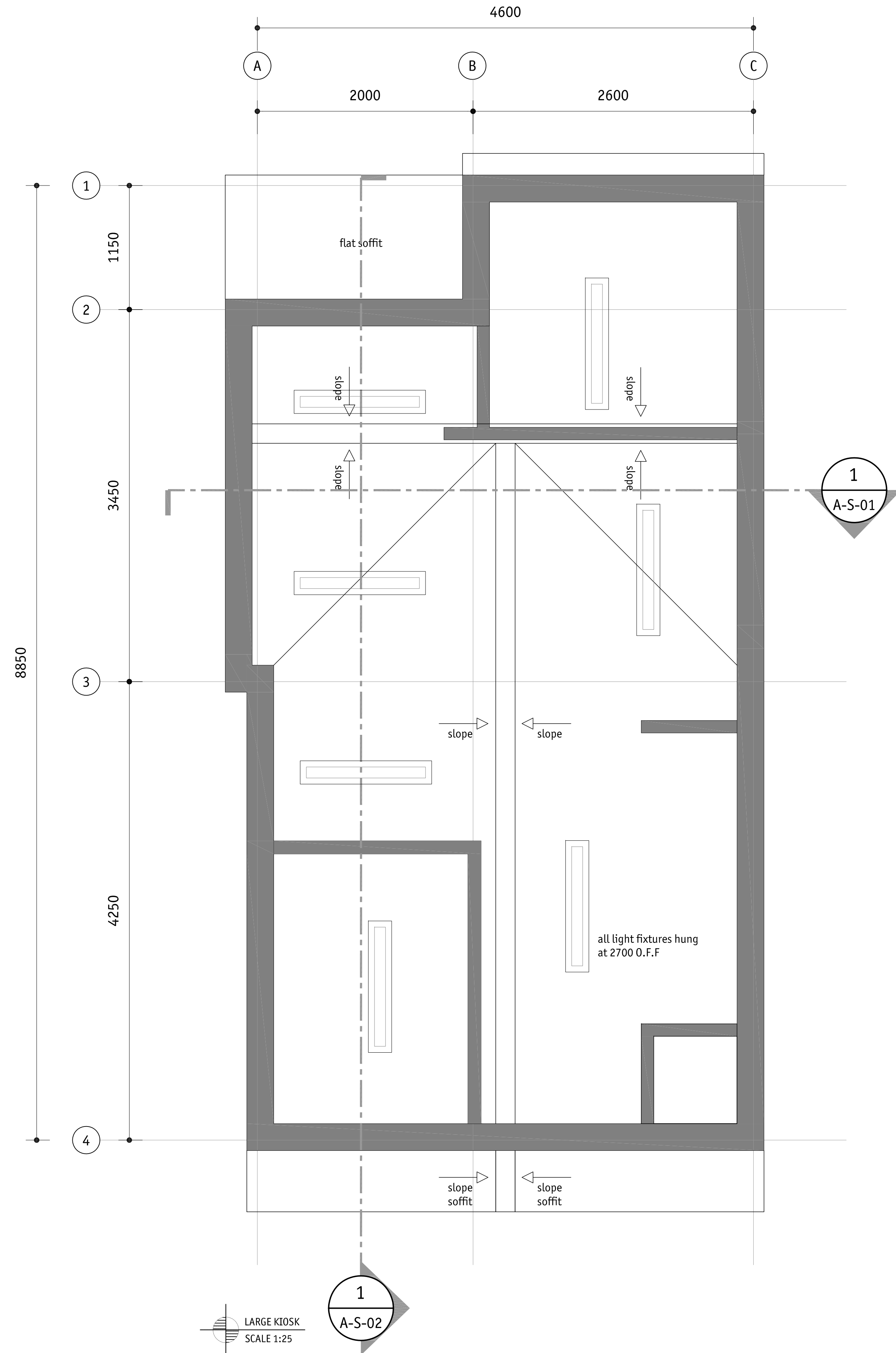
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Project No./N° du projet	Asset No./N° du bien	Sheet No./N° de la feuille
FII 907/908		

Drawing Set No./N° de série du dessin	06 of 15
A-P-03	



SMALL KIOSK
SCALE 1:25



LARGE KIOSK
SCALE 1:25

NOTES

1.



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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
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Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
200 HORN STREET EDMONTON, B.C. V6A 1S2 TEL: (204) 462-2343 FAX: (204) 462-2344 EMAIL: info@meiklejohn.ca 225 BROADWAY EDMONTON, B.C. T5T 0M7 TEL: (204) 462-2343 FAX: (204) 462-2344 EMAIL: info@meiklejohn.ca	m+m a MEIKLEJOHN ARCHITECTS INC.

 Parks Canada Strategic Asset Management, Western and Northern Region	 Parcs Canada Gestion Stratégique des Biens, Région de l'Ouest et du Nord
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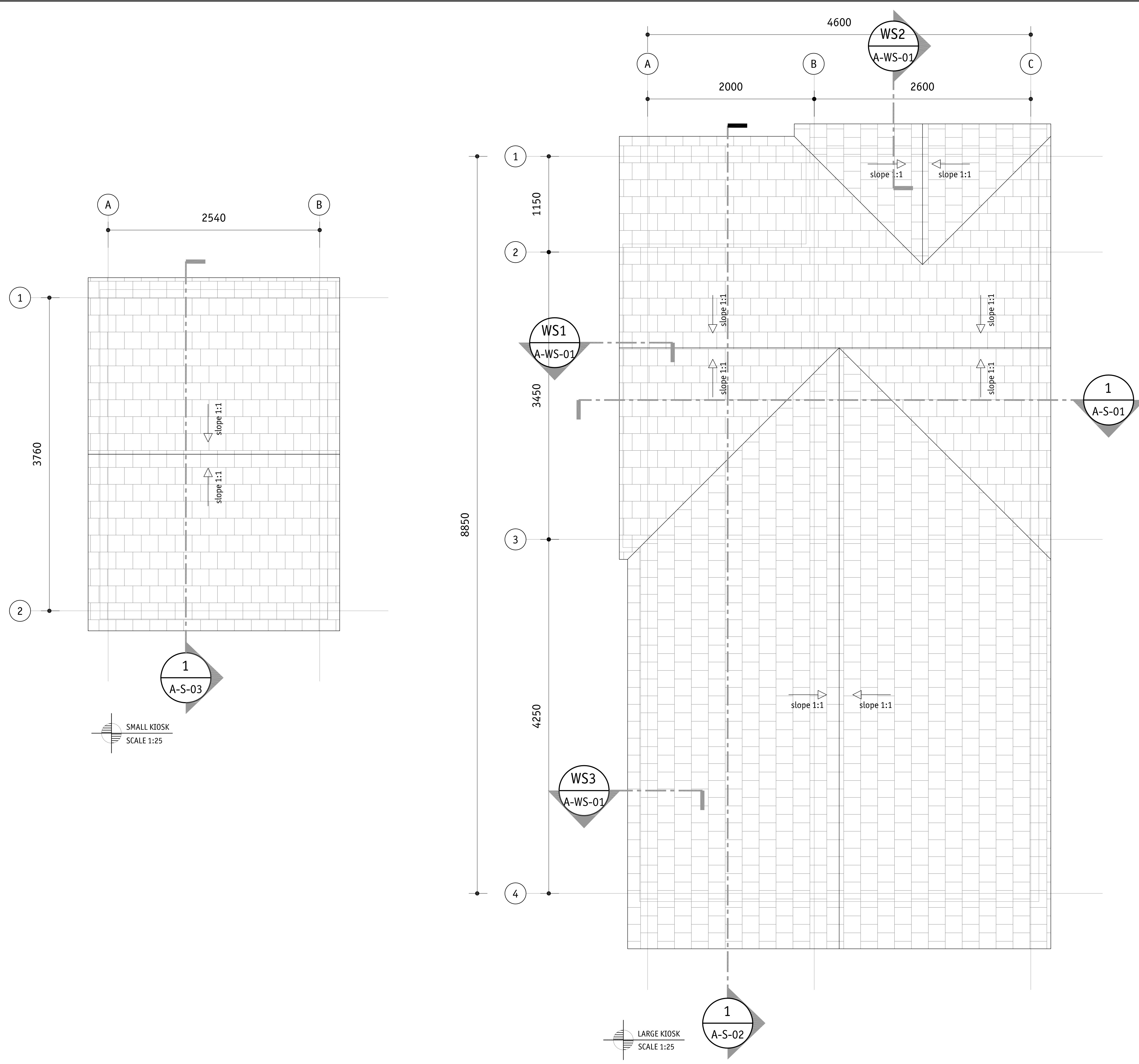
Canada

ICEFIELD PARKWAY GATE REDEVELOPMENT BANFF NATIONAL PARK

Drawing title/Titre du dessin
REFLECTED CEILING
PLAN




Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
	Collin Crabbe	2017-03-22
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Collin Crabbe	JM	AS NOTED
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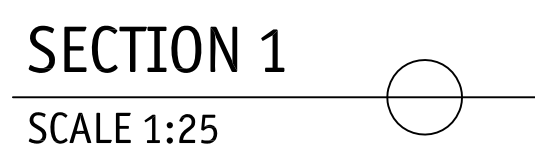
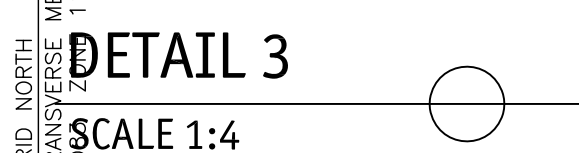
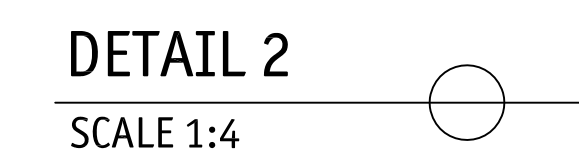
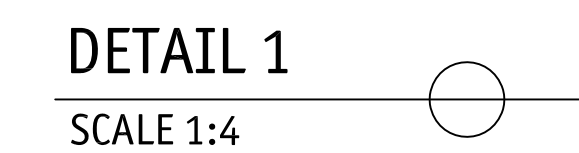
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Drawing Set No./N° de série du dessin		07 of 15
A-P-04		



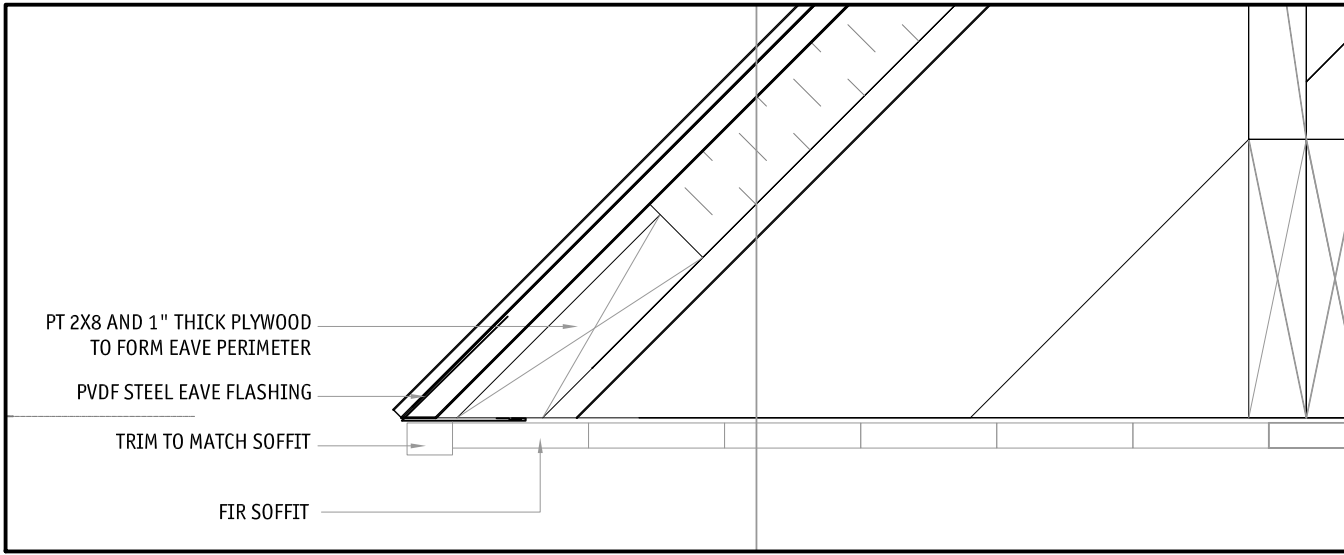
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Revision / Revision				
A	Detail number		A Numéro de détail	
B	Sheet number		B Numéro de la feuille	
Linear dimensions in millimetres		Dimensions linéaires en millimètres		
Consultant's Name Nom de l'expert-conseil			Eng. Stamp Sceau de l'ingénieur	
210 HORN STREET EDMONTON, B.C. V6A 1S2 TEL: (250) 462-2343 FAX: (250) 462-0214 EMAIL: info@meiklejohn.ca 225 BROADWAY AVENUE VICTORIA, B.C. V8W 2M7 TEL: (250) 362-2024 FAX: (250) 362-8567 EMAIL: info@meiklejohn.ca			 MEIKLEJOHN ARCHITECTS INC.	
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ICEFIELD PARKWAY GATE REDEVELOPMENT BANFF NATIONAL PARK				
Drawing title/Titre du dessin PROPOSED ROOFING PLAN				
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		Collin Crabbe	2017-03-22	
Designed by/Concept par		Reviewed by/Revisé par	Scale/Echelle	
Collin Crabbe		JM	AS NOTED	
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	
FII 907/908				
Drawing Set No./N° de série du dessin		08 of 15		
A-P-05				

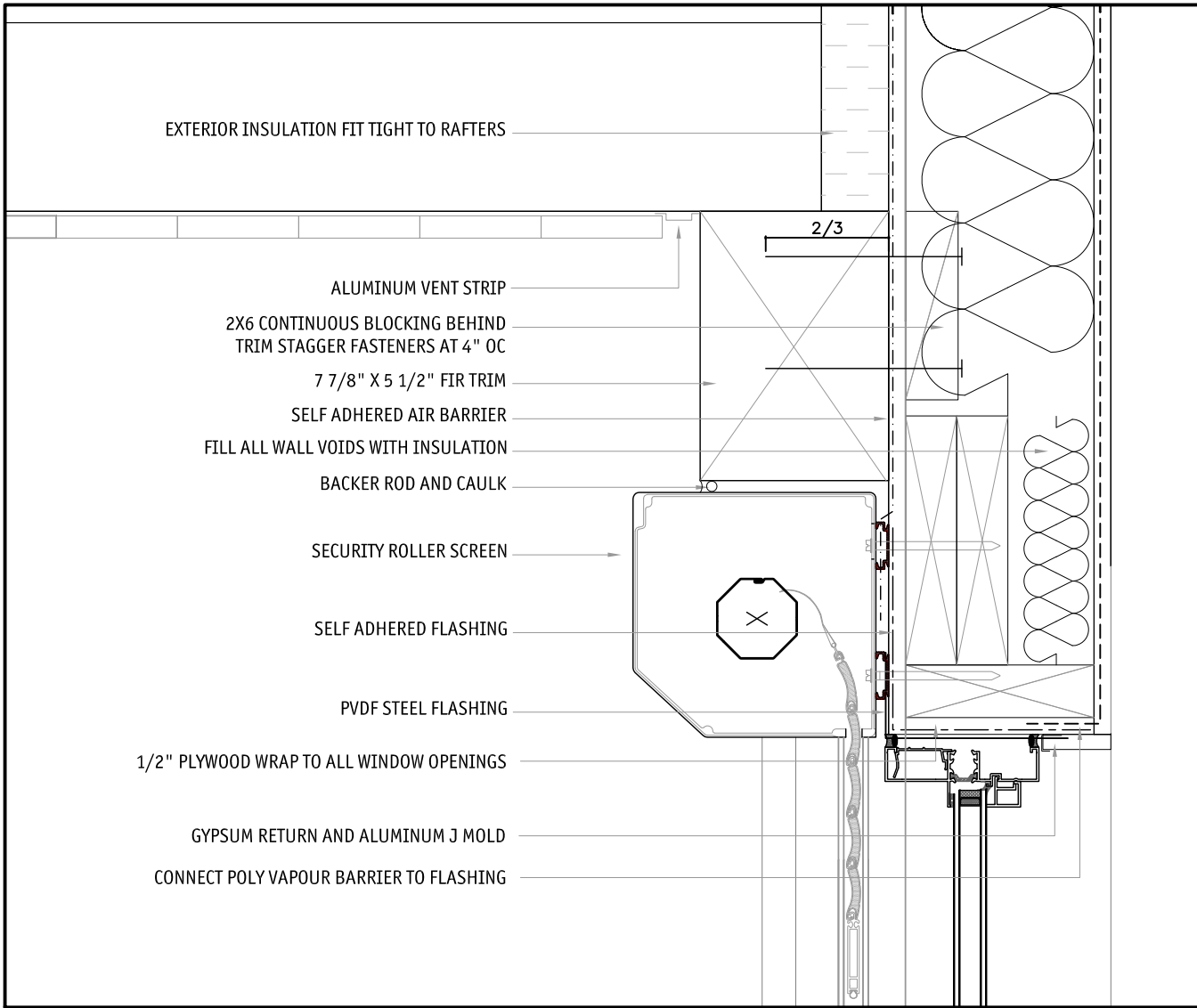


Surveyed by/Arpente par		Drawn by/Dessine par Collin Crabbe		Date 2017-03-22
Designed by/Concept par Collin Crabbe		Reviewed by/Revise par JM		Scale/Echelle AS NOTED
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Date			Date	
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Drawing Set No./N ^o de serie du dessin A-S-01				
				09 of 15



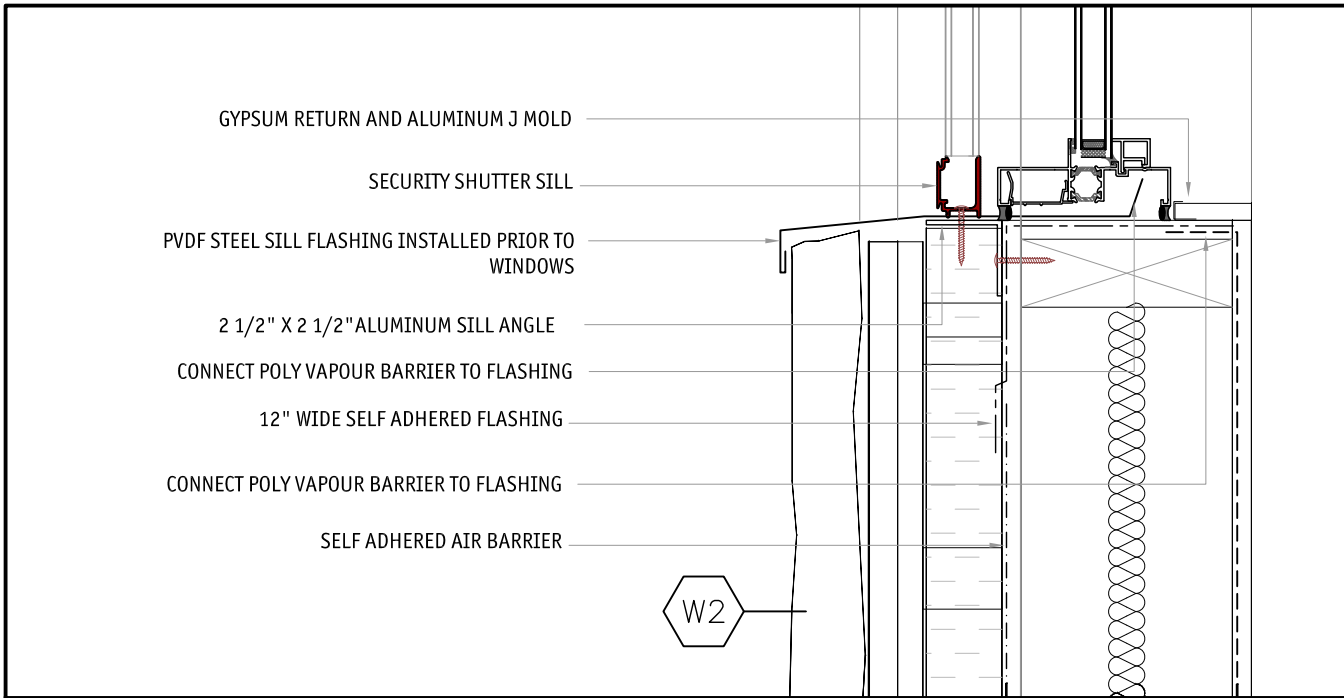
DETAIL 1

SCALE 1:5



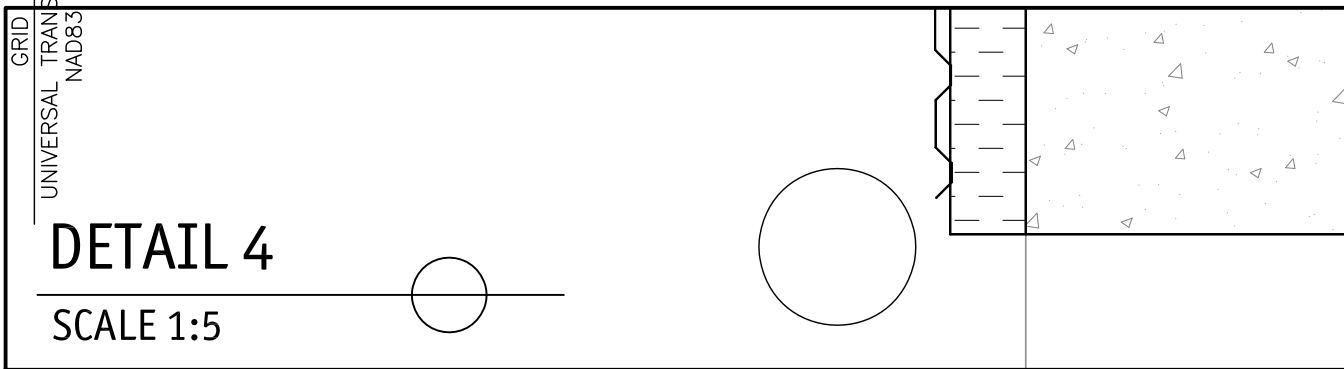
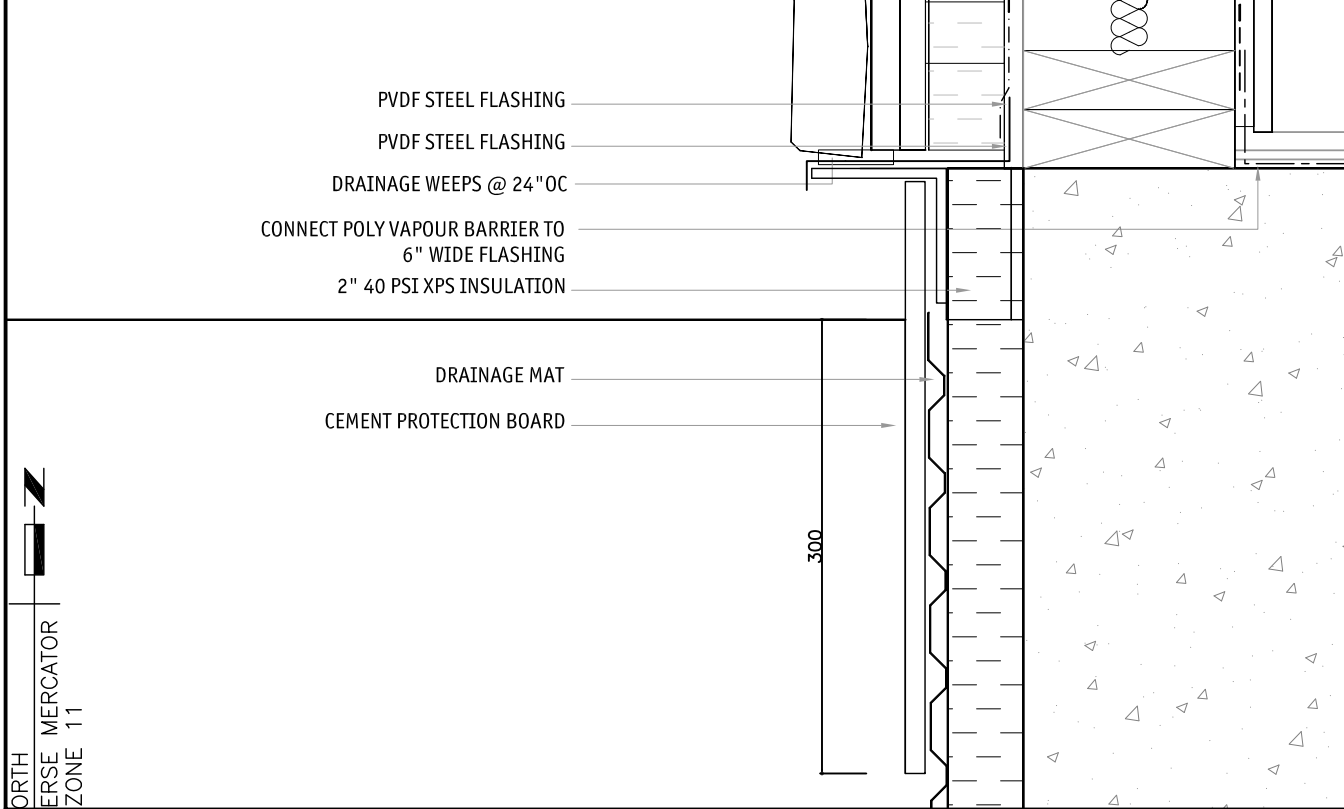
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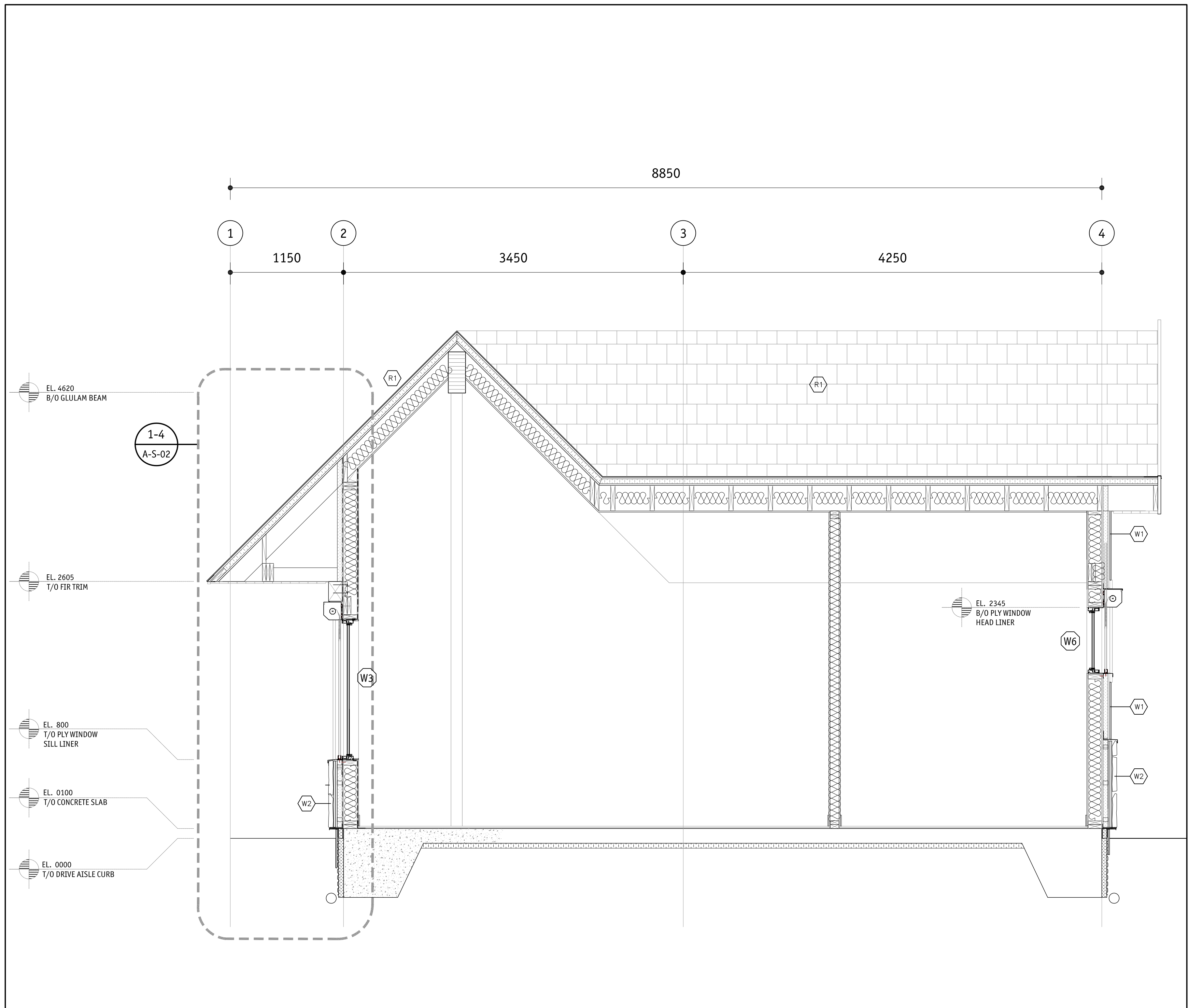
DETAIL 3

SCALE 1:5



DETAIL 4

SCALE 1:5



SECTION 1

SCALE 1:25

NOTES

1.

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Revision / Revision

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

Linear dimensions in millimetres	Dimensions lineaires en millimetres
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Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingenieur
300 HORN STREET EDMONTON, B.C. T6A 1S2 TEL: (204) 462-2343 FAX: (204) 462-2344 EMAIL: info@meiklejohn.ca 225 BROADWAY AVENUE EDMONTON, B.C. T6C 1B7 TEL: (204) 462-2343 FAX: (204) 462-2342 WWW.MEIKLEJOHN.COM	m+m a MEIKLEJOHN ARCHITECTS INC.

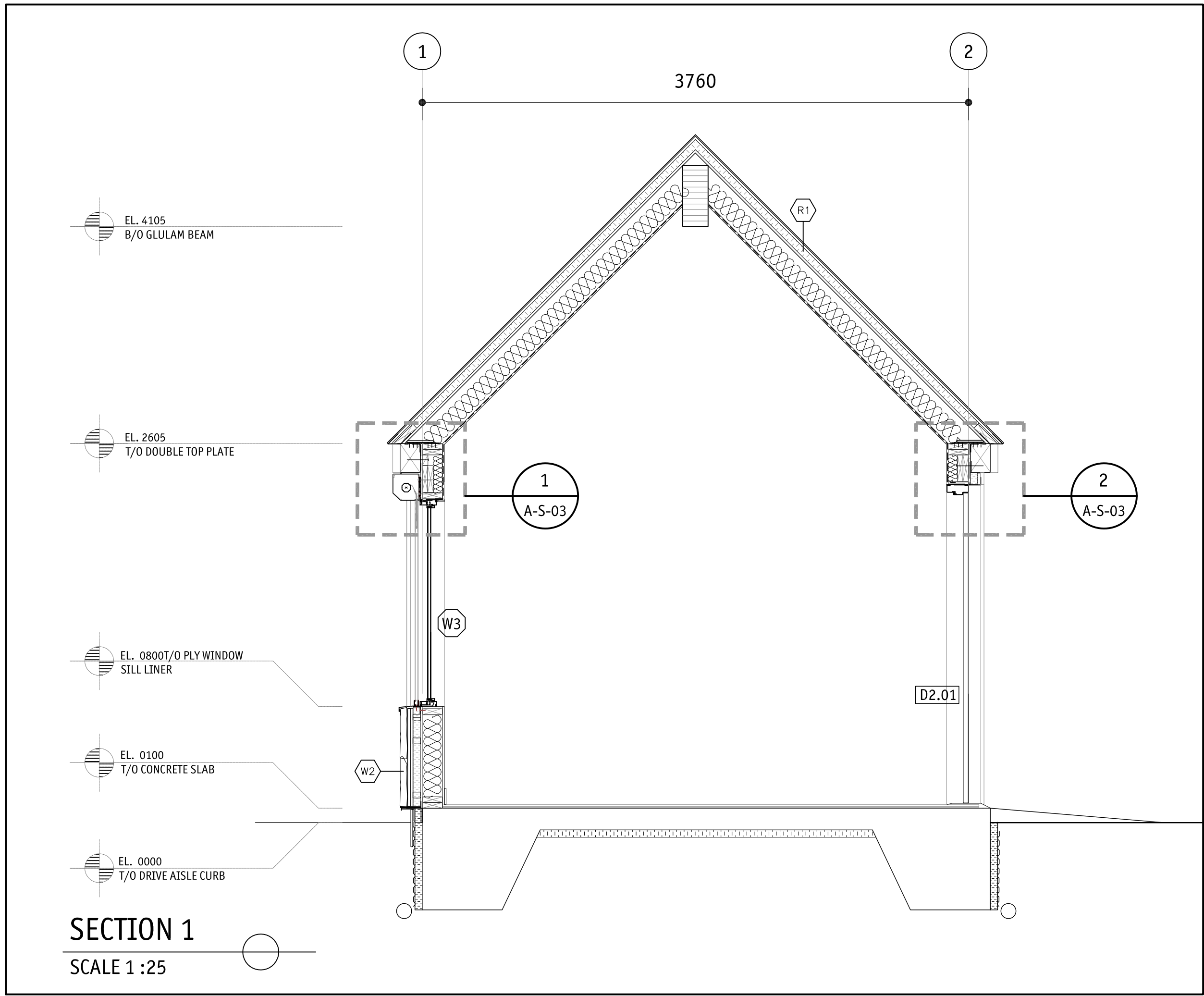
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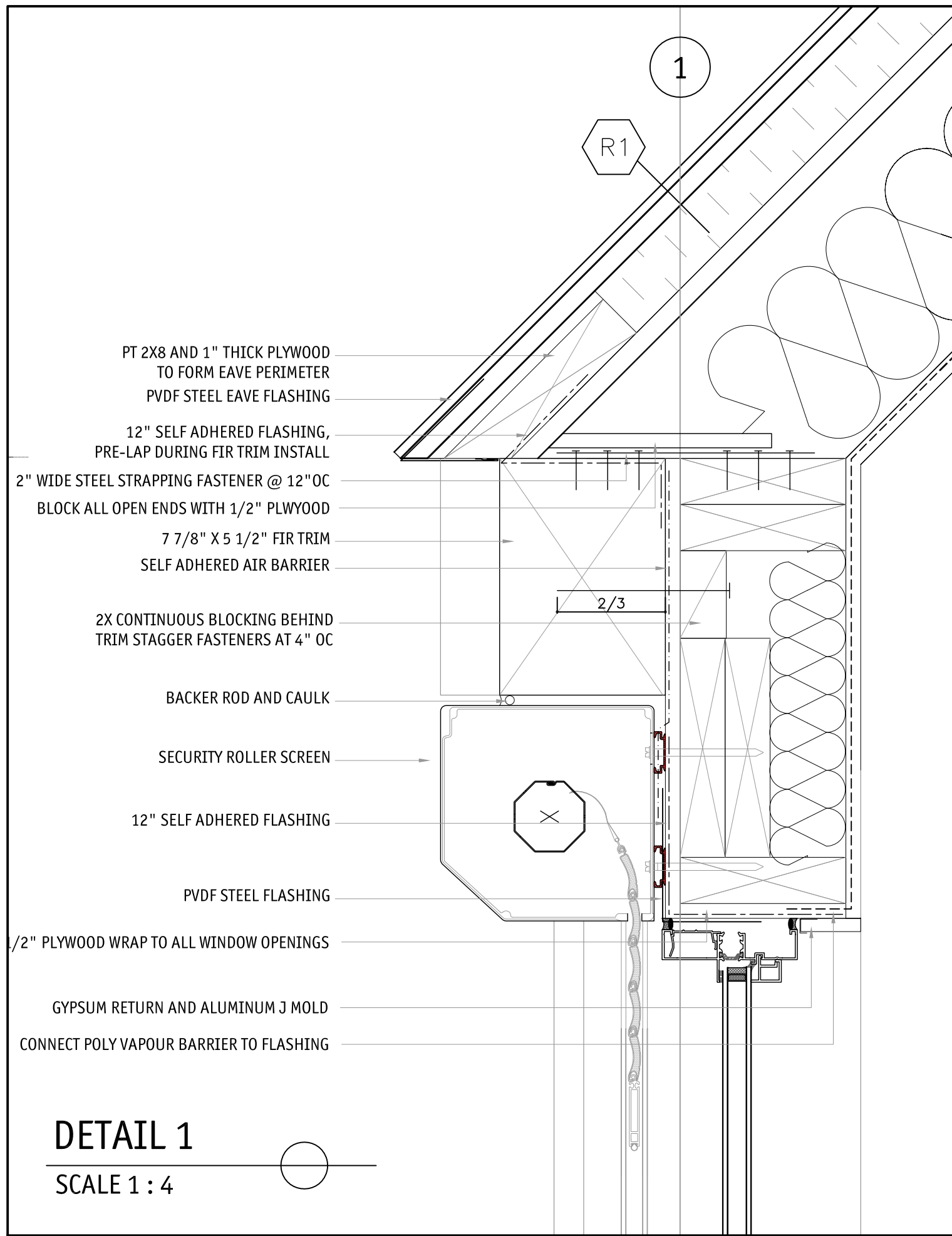
ICEFIELD PARKWAY
GATE REDEVELOPMENT
BANFF NATIONAL PARK

Drawing title/Titre du dessin
LARGE KIOSK SECTION

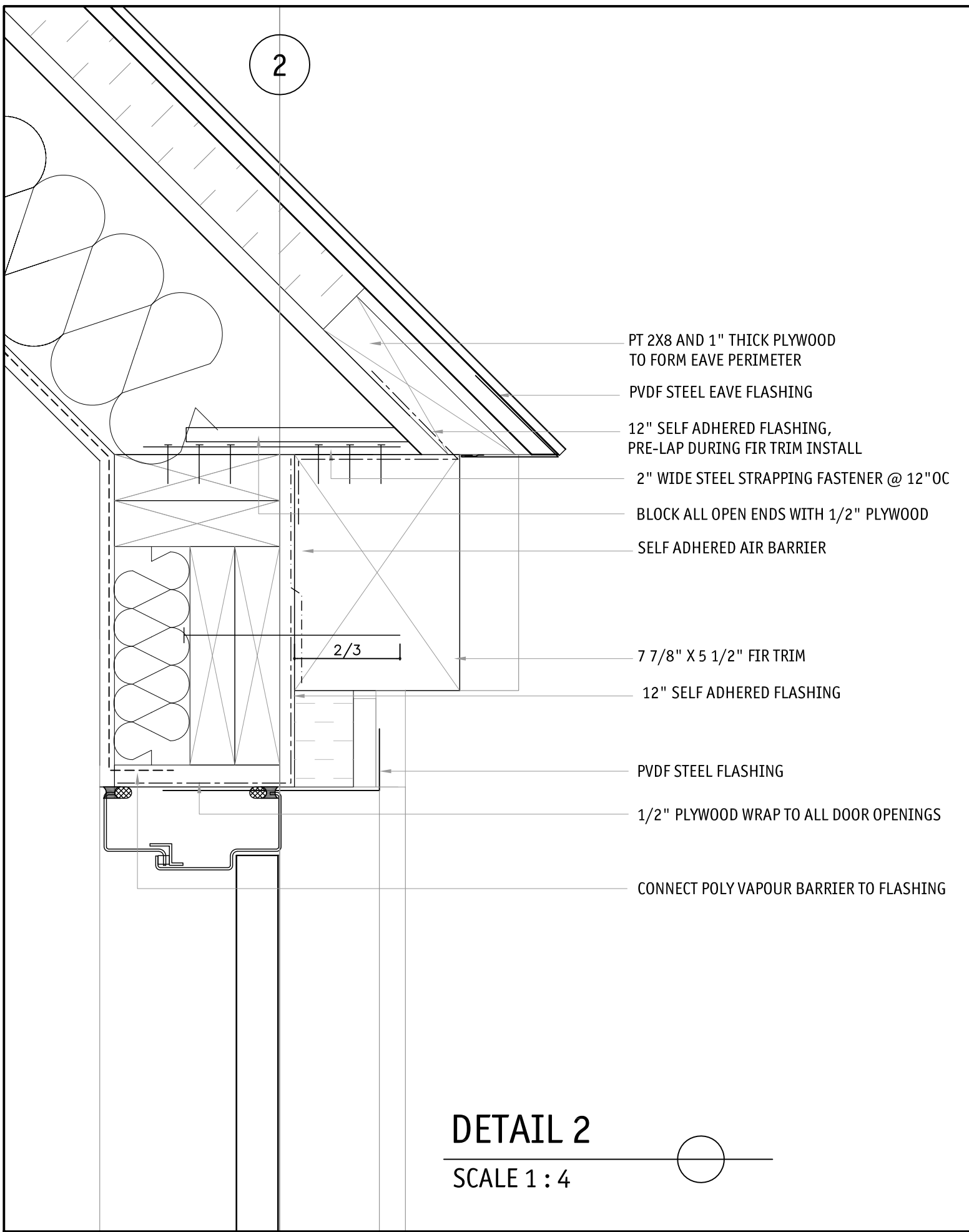
Surveyed by/Arpente par	Drawn by/Dessine par	Date
Collin Crabbe	Collin Crabbe	2017-03-22
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
Collin Crabbe	JM	AS NOTED
Client Acceptance/Acceptation du client	Approved by/Approuvé par	Date
Project No./N° du projet	Asset No./N° du bien	Sheet No./N° de la feuille
FII 907/908		
Drawing Set No./N° de série du dessin		10 of 15
A-S-02		



SECTION 1
SCALE 1 : 25



DETAIL 1
SCALE 1 : 4



DETAIL 2
SCALE 1 : 4

NOTES


1.

D	2017/05/03	ISSUED FOR TENDER	CC	JM
C	2017/03/22	90% DRAWING SUBMISSION CLIENT REVIEW	CC	
No.	Date	Description	Drawn by Dessine par	Approved Approuve

Revision / Revision

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

Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
310 HORN STREET EDMONTON, B.C. V6A 1S2 TEL: (204) 462-2343 FAX: (204) 462-2344 EMAIL: info@meiklejohn.ca 225 BROADWAY AVENUE EDMONTON, B.C. T5T 0M7 TEL: (204) 462-2324 FAX: (204) 462-2327 EMAIL: info@meiklejohn.ca	m + m a MEIKLEJOHN ARCHITECTS INC.

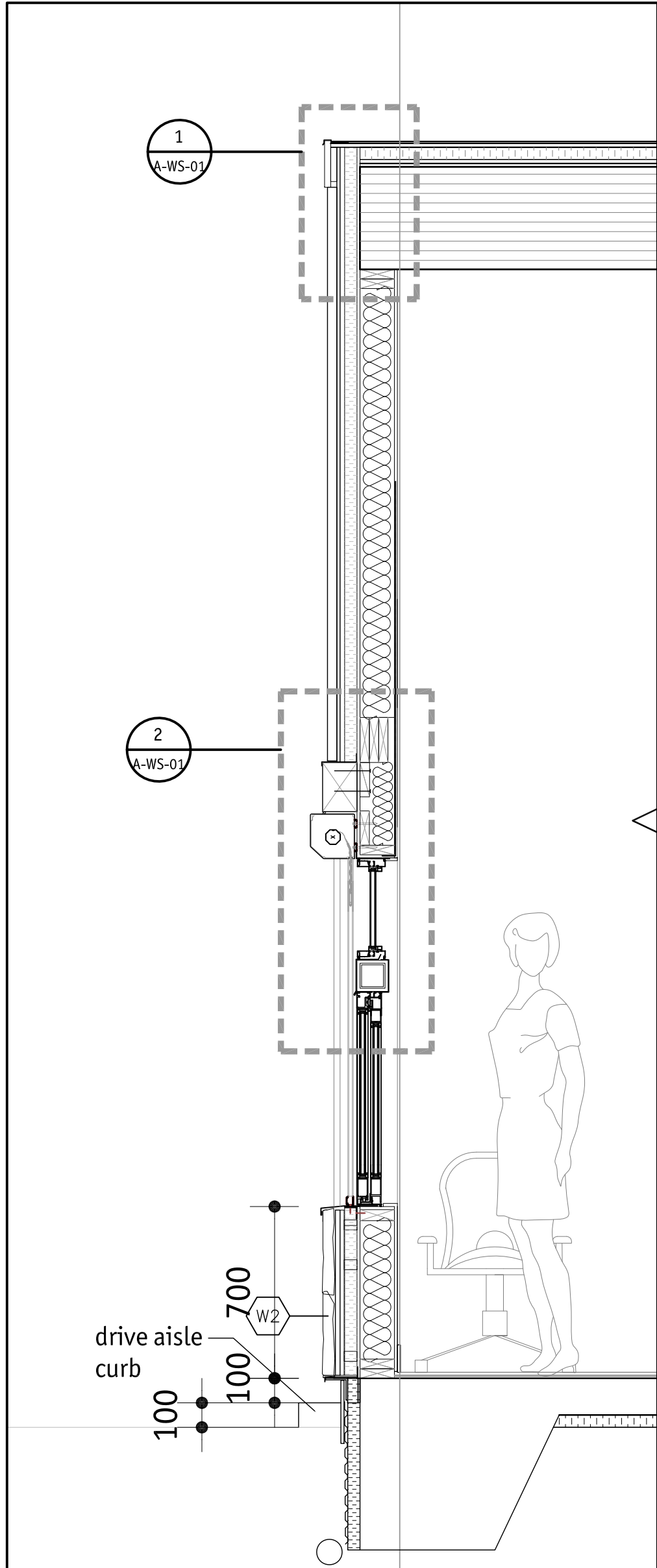
 Parks Canada Strategic Asset Management, Western and Northern Region	Parcs Canada Gestion Stratégique des Biens, Région de l'Ouest et du Nord
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Canada

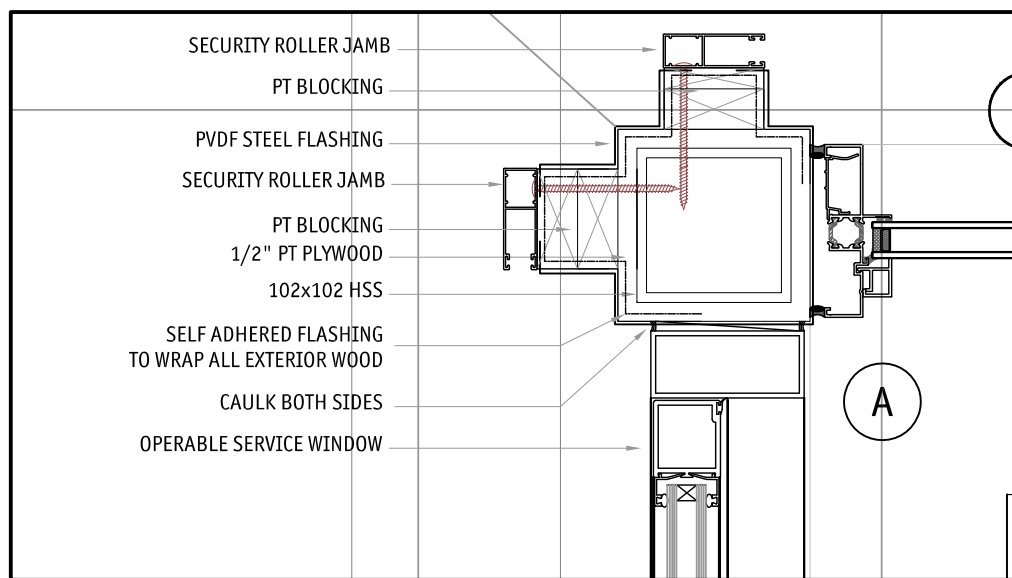
ICEFIELD PARKWAY
GATE REDEVELOPMENT
BANFF NATIONAL PARK

Drawing title/Titre du dessin
SMALL KIOSK SECTION

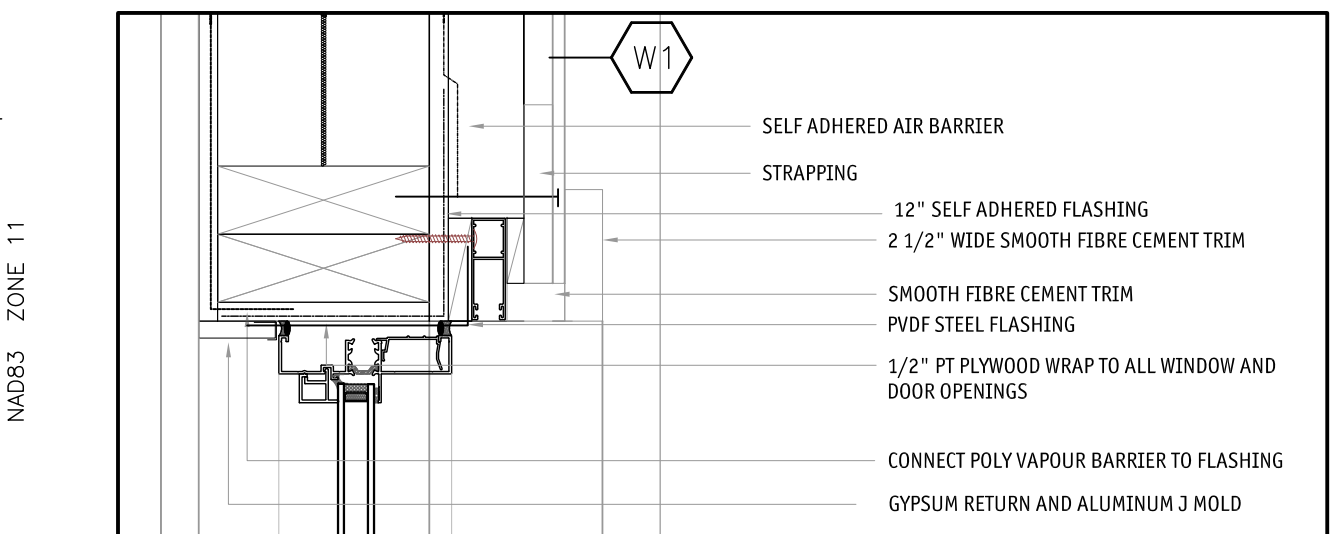
Surveyed by/Arpenté par Collin Crabbe	Drawn by/Dessiné par Collin Crabbe	Date 2017-03-22
Designed by/Concept par Collin Crabbe	Reviewed by/Revisé par JM	Scale/Echelle AS NOTED
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./N° du projet FII 907/908	Asset No./N° du bien	Sheet No./ N° de la feuille
Drawing Set No./N° de série du dessin A-S-03		11 of 15



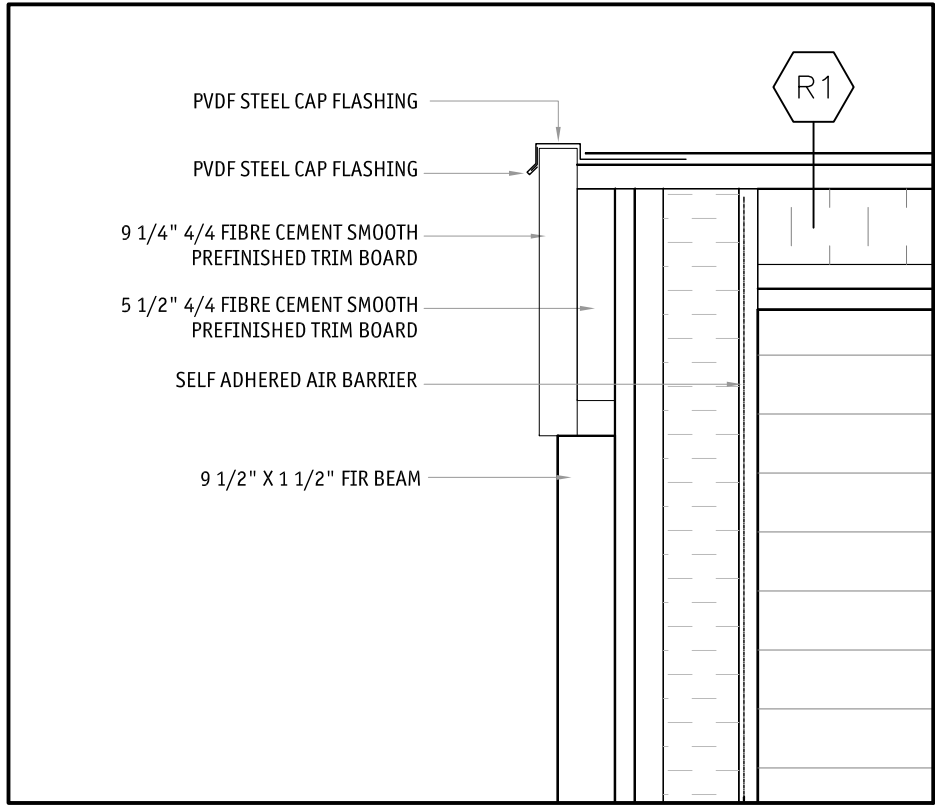
WALL SECTION 1
SCALE 1:20



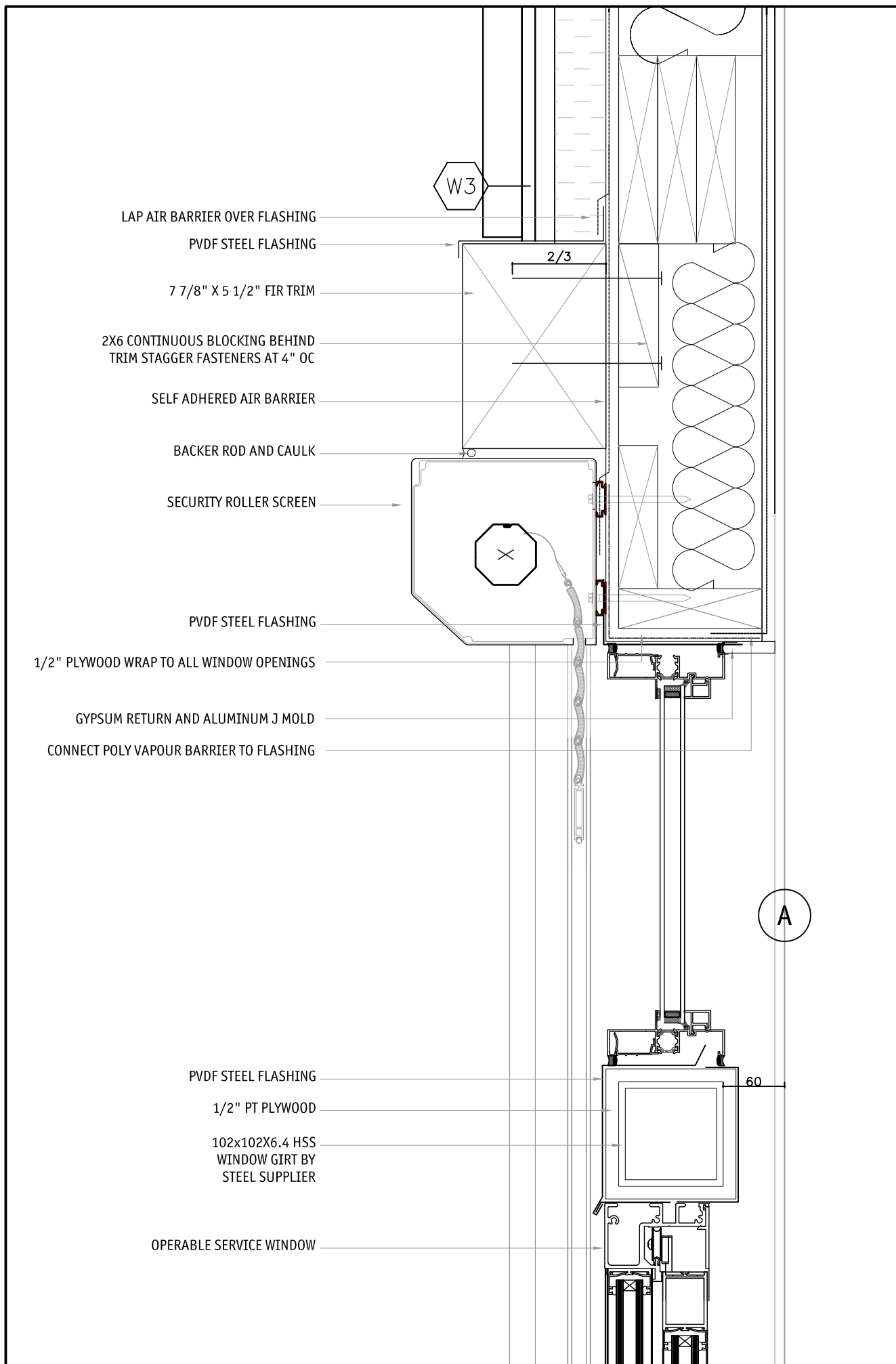
DETAIL 6
SCALE 1:5



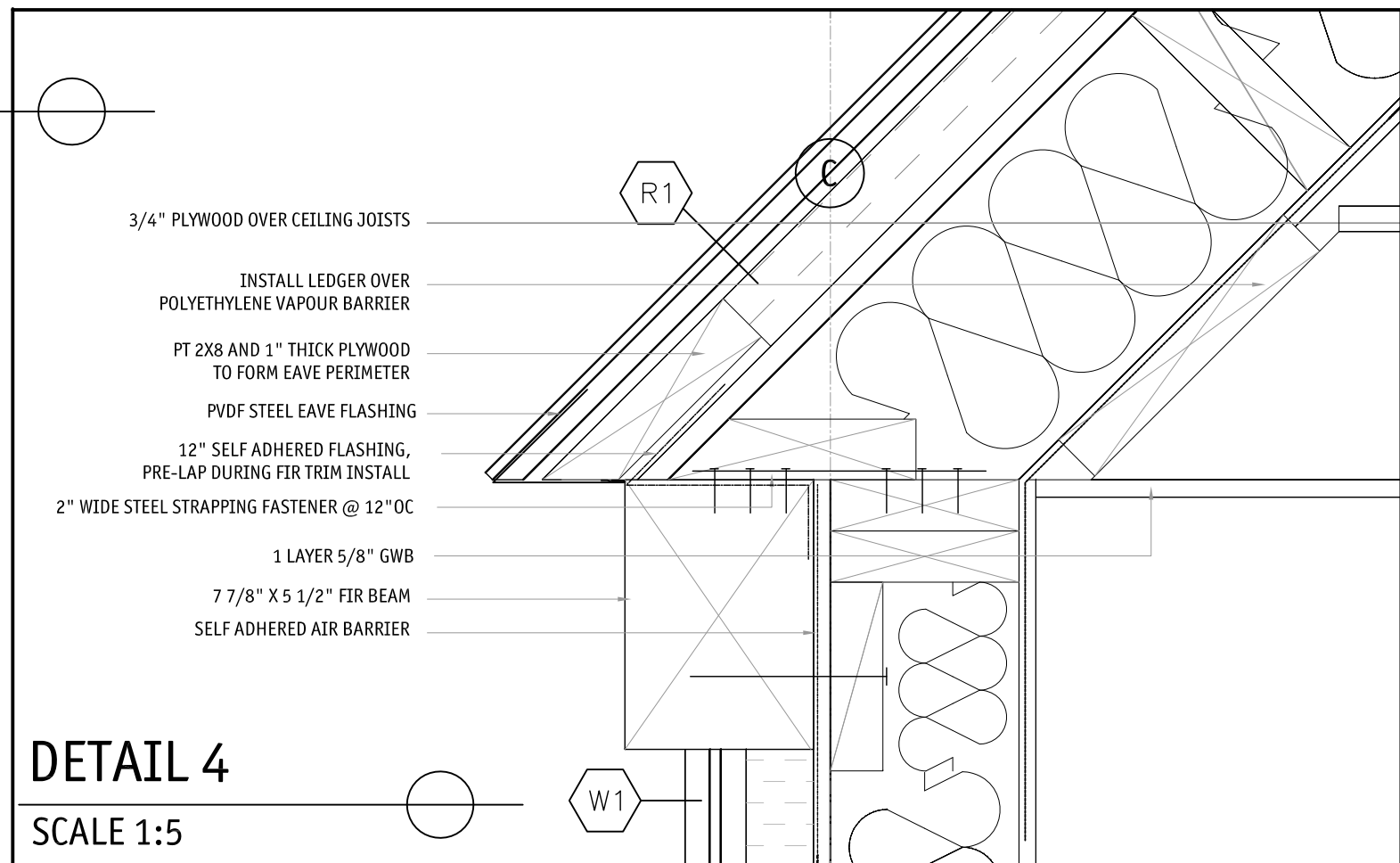
DETAIL 7
SCALE 1:5



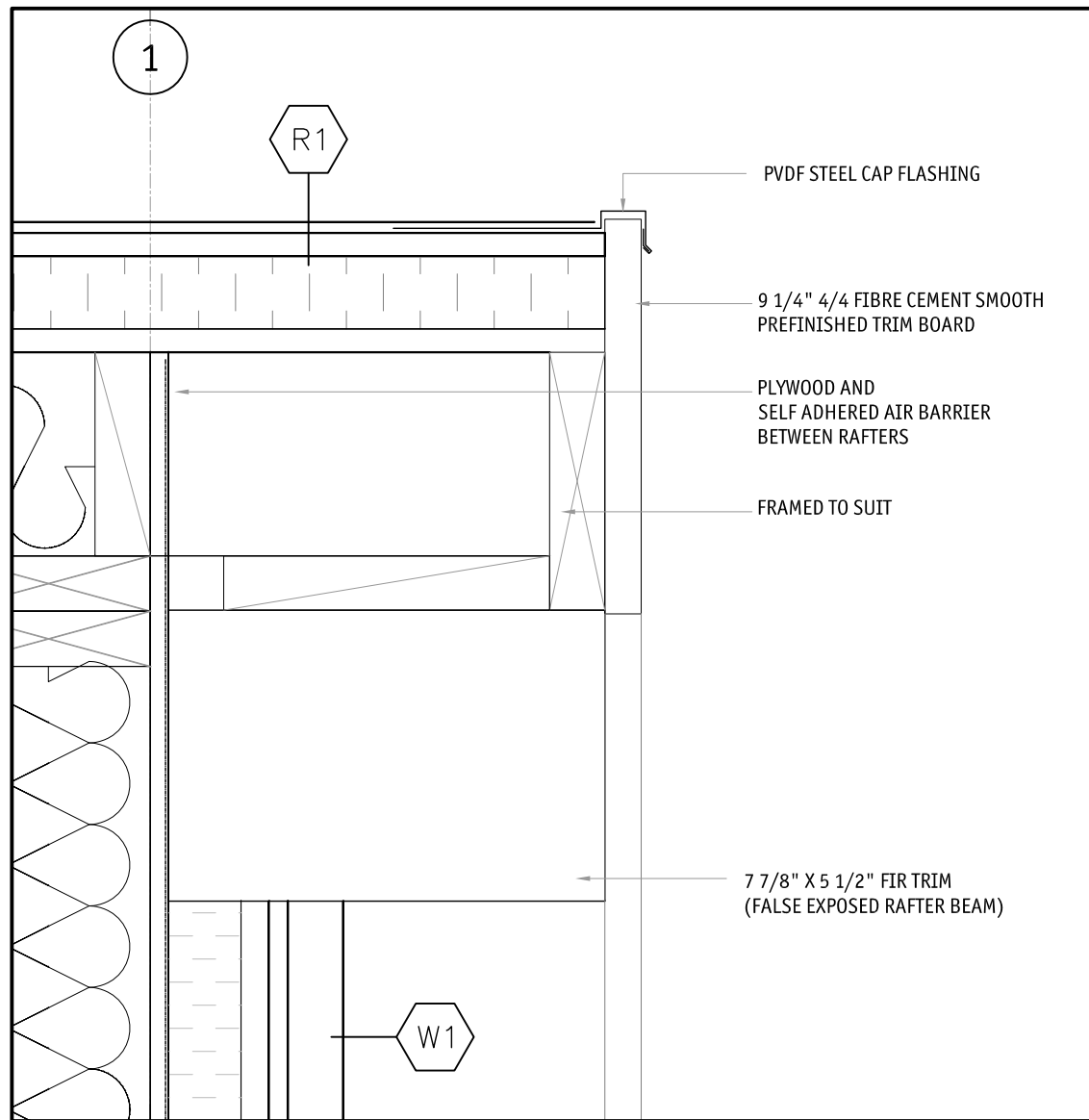
DETAIL 1
SCALE 1:5



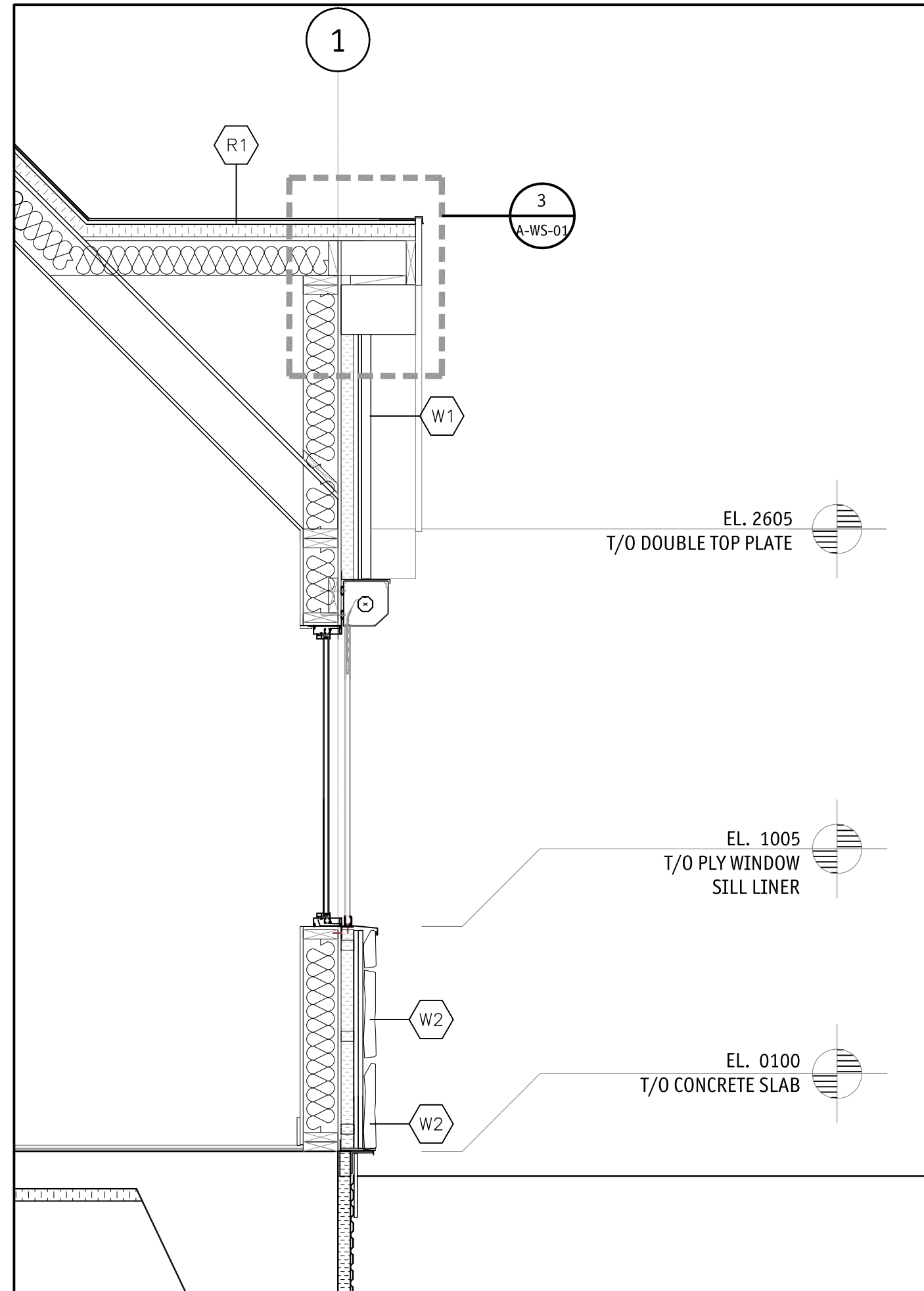
DETAIL 2
SCALE 1:5



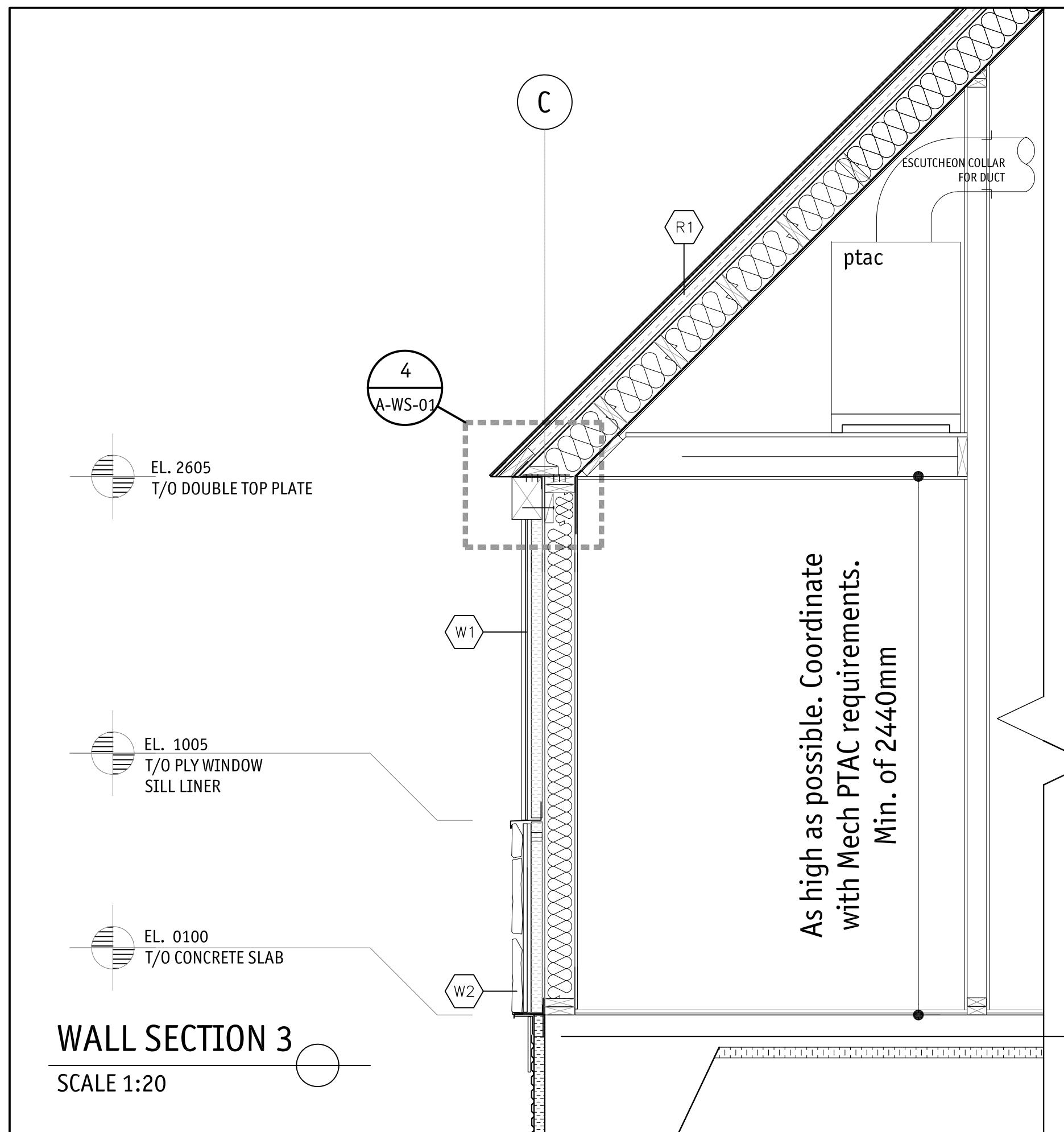
DETAIL 4
SCALE 1:5



DETAIL 3
SCALE 1:5



WALL SECTION 2
SCALE 1:20



WALL SECTION 3
SCALE 1:20

NOTES

1.

D	2017/05/03	ISSUED FOR TENDER	CC	JM
C	2017/03/22	90% DRAWING SUBMISSION CLIENT REVIEW	CC	
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

A	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 J&M ARCHITECTS INC. 100-1000 STREET EDMONTON, B.C. V6A 1K5 TEL: (204) 462-2343 FAX: (204) 462-2344 EMAIL: j&m-architects.ca 225 BROADWAY AVENUE EDMONTON, B.C. T5Y 0R7 TEL: (204) 462-2344 FAX: (204) 462-2347 EMAIL: j&m-architects.ca	Eng. Stamp Sceau de l'ingénieur m+m a MEIKLESJOHN ARCHITECTS INC.
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Parks Canada Strategic Asset Management, Western and Northern Region	Parcs Canada Gestion Stratégique des Biens, Région de l'Ouest et du Nord
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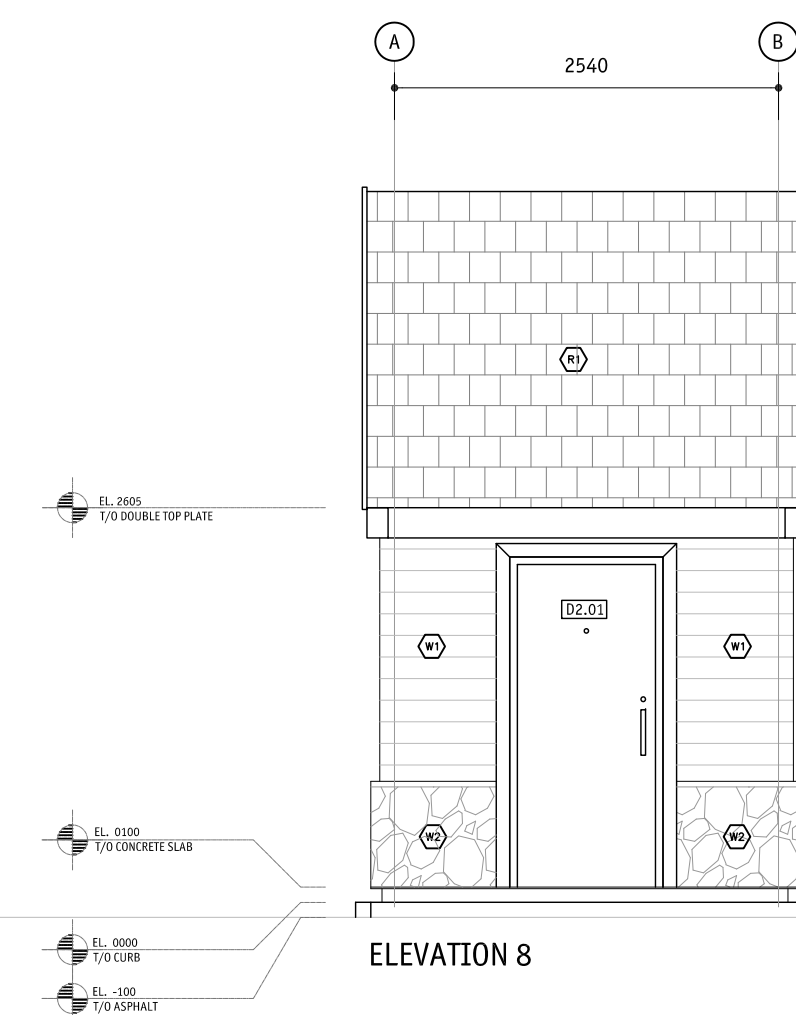
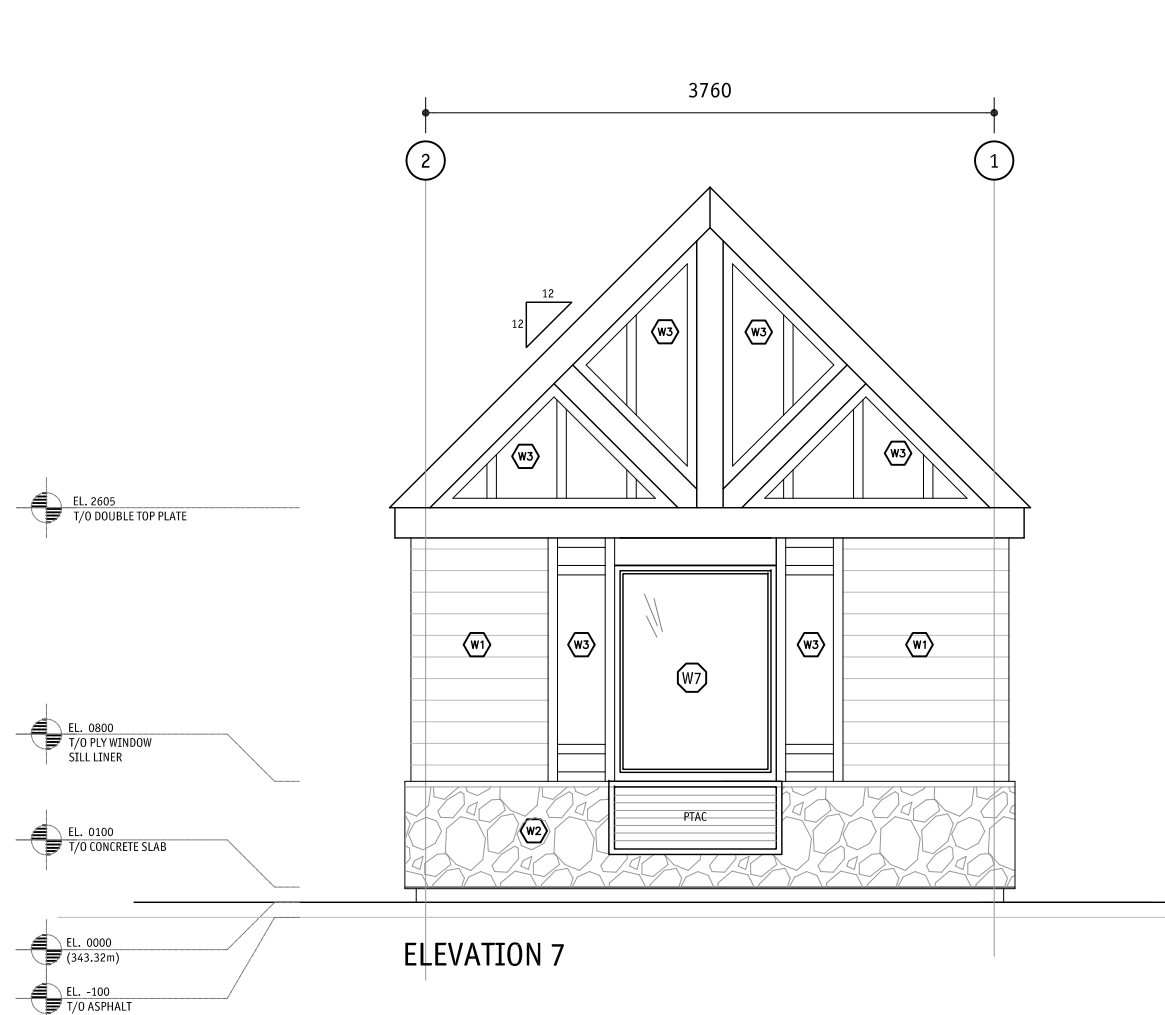
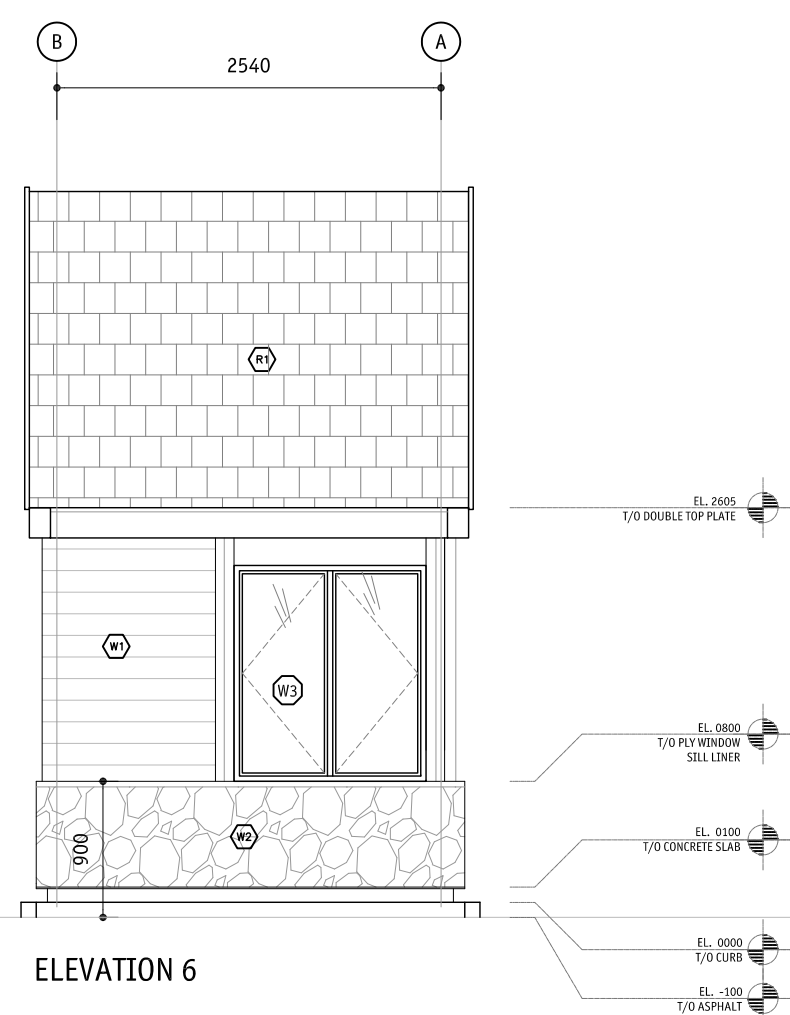
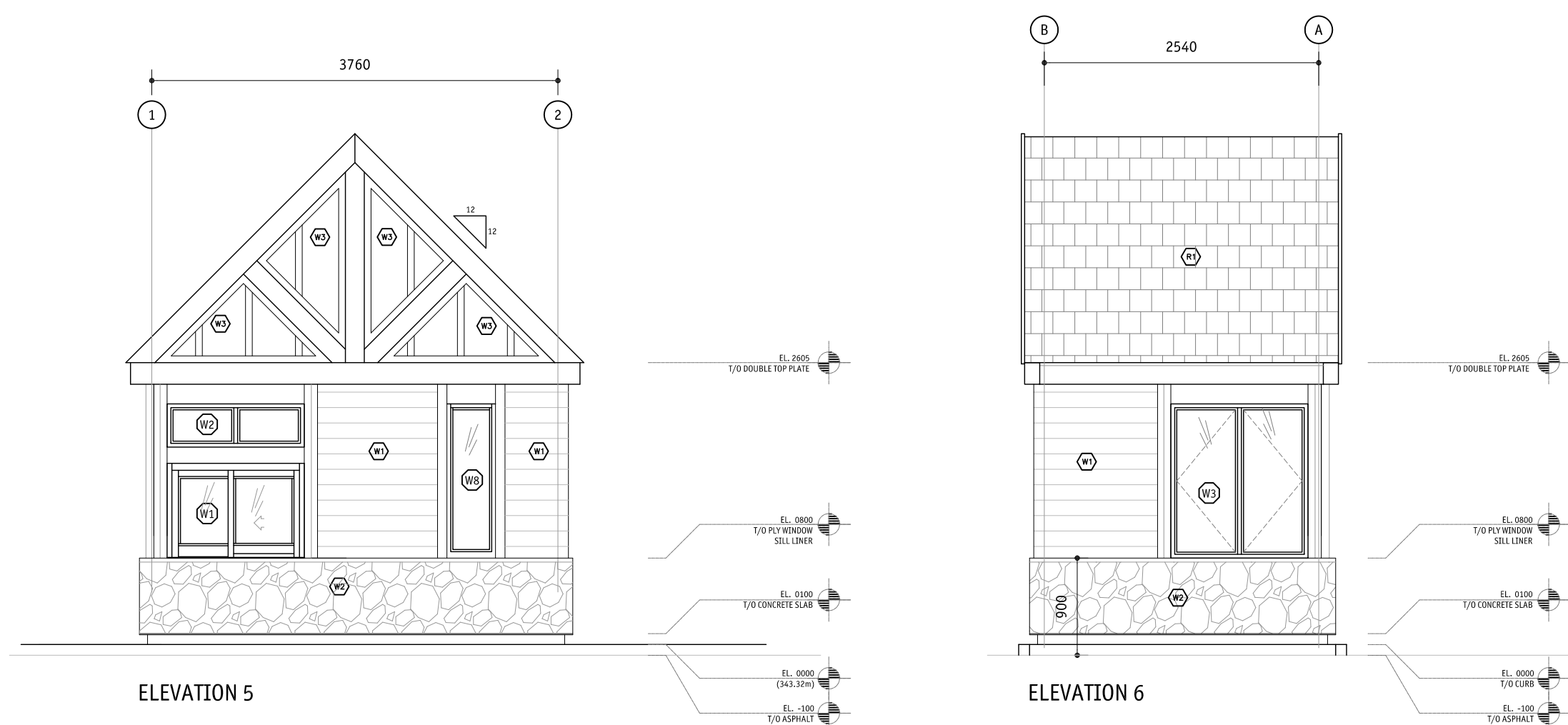
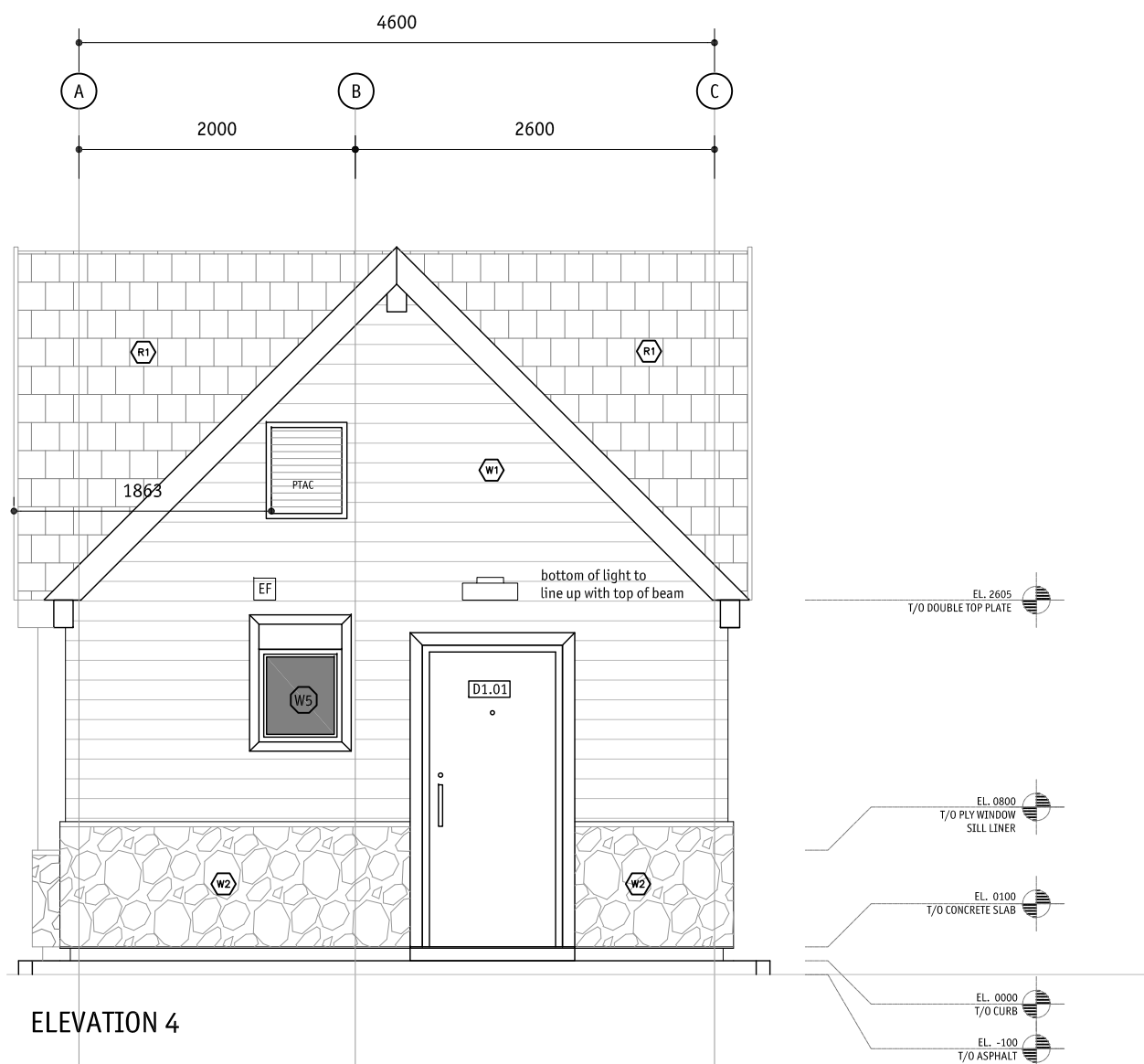
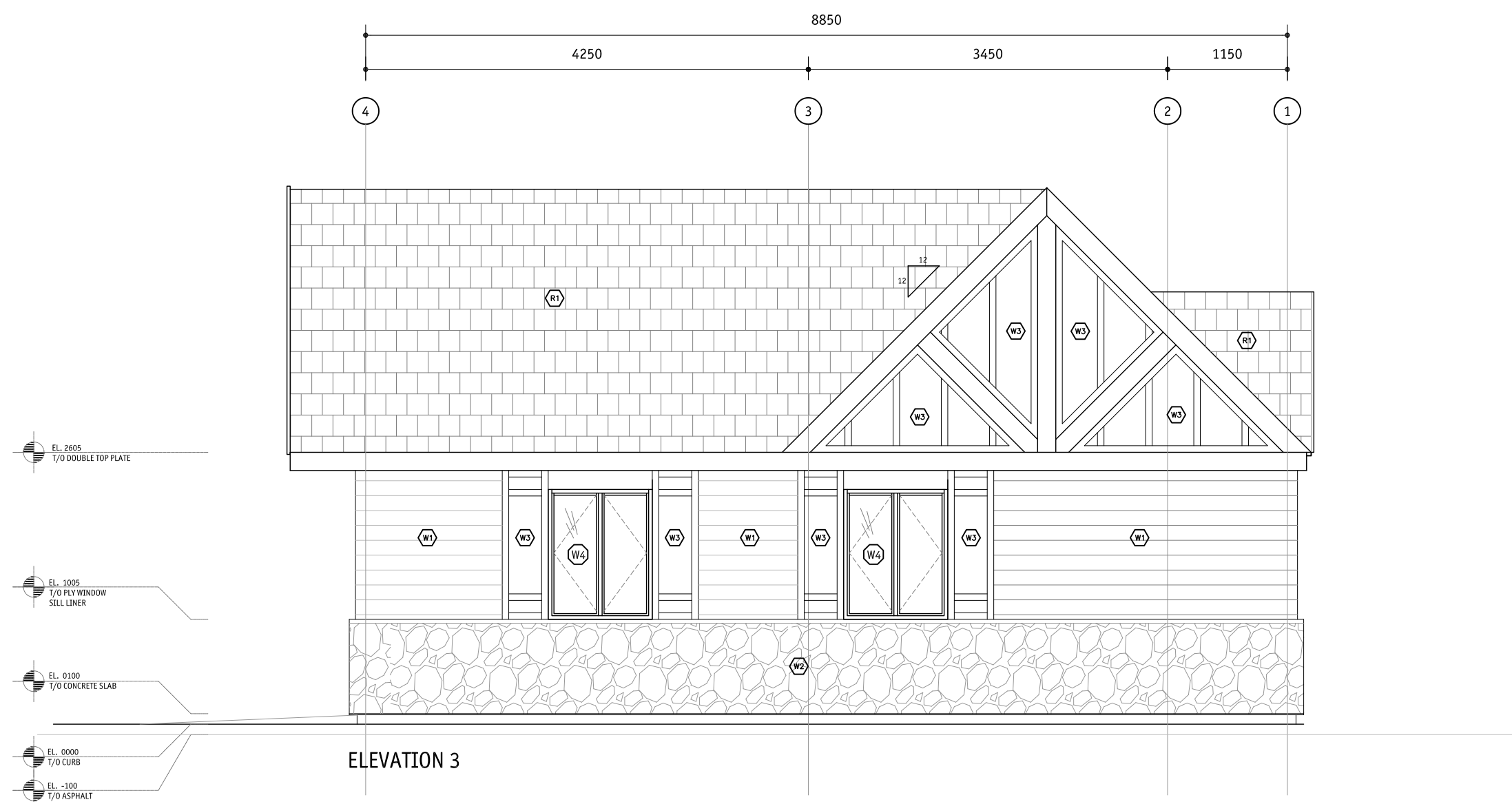
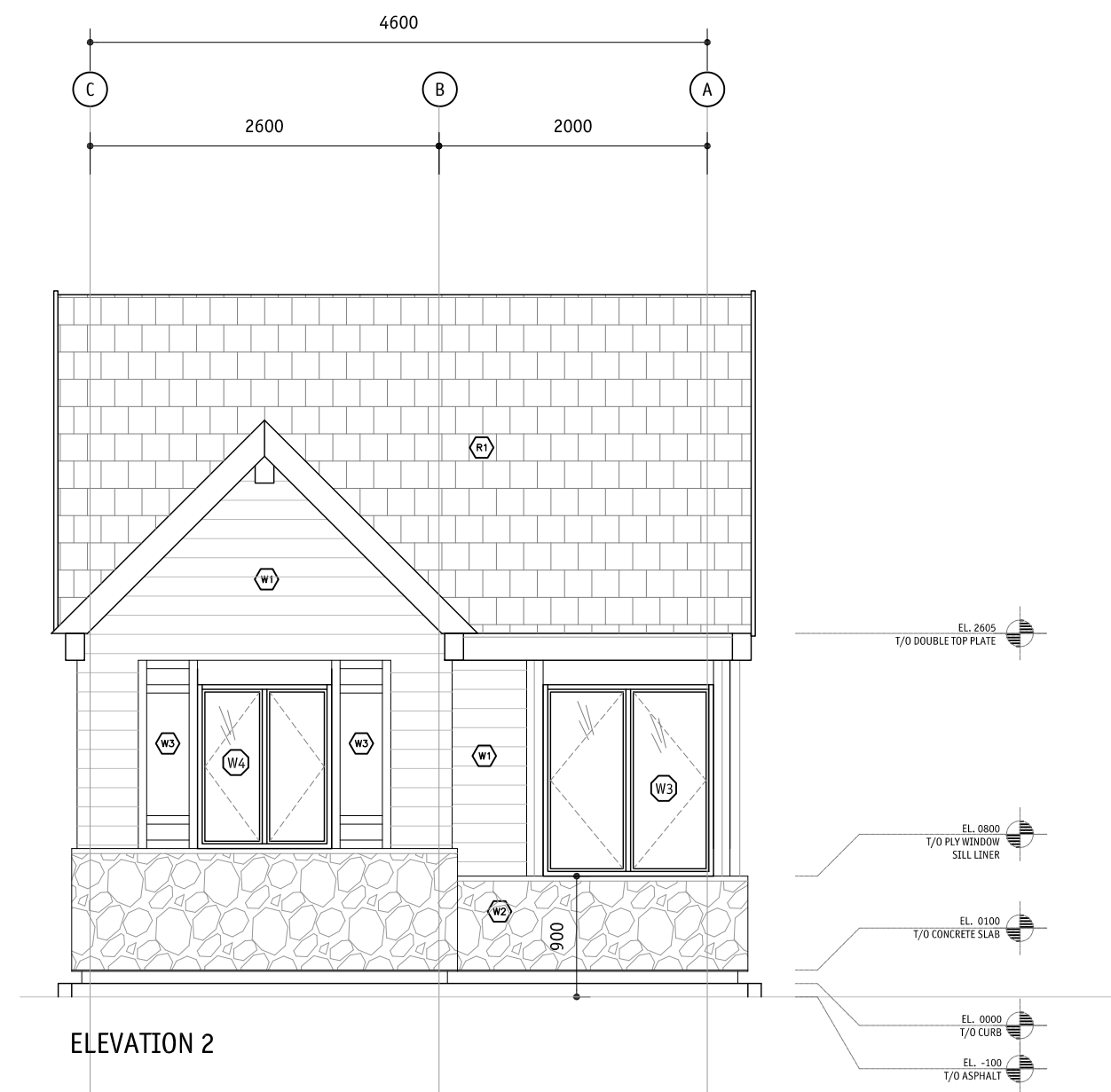
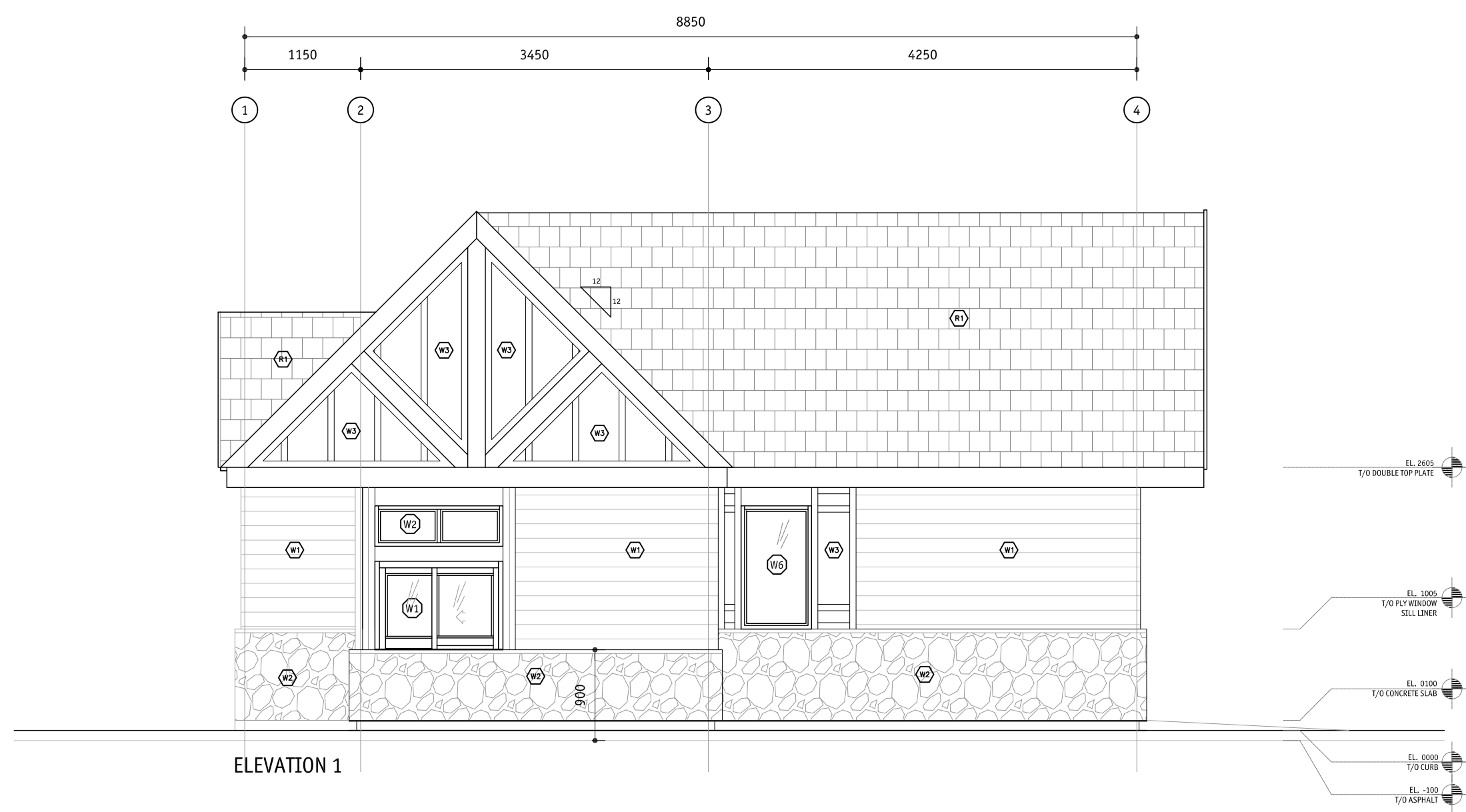
Canada

ICEFIELD PARKWAY
GATE REDEVELOPMENT
BANFF NATIONAL PARK

Drawing title/Titre du dessin
LARGE KIOSK SECTION

Surveyed by/Arpenté par Collin Crabbe	Drawn by/Dessiné par Collin Crabbe	Date 2017-03-22
Designed by/Concept par Collin Crabbe	Reviewed by/Revisé par JM	Scale/Echelle AS NOTED
Client Acceptance/Acceptation du client		Approved by/Approuvé par

Project No./N° du projet FII 907/908	Asset No./N° du bien	Sheet No./ N° de la feuille 12 of 15
Drawing Set No./N° de série du dessin A-WS-01		



NOTES

1.

D	2017/05/03	ISSUED FOR TENDER	CC	JM
C	2017/03/22	90% DRAWING SUBMISSION CLIENT REVIEW	CC	
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
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Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
210 HORN STREET EDMONTON, B.C. V6A 1S2 TEL: (204) 462-2343 FAX: (204) 462-2344 EMAIL: info@meiklejohn.ca 225 BROADWAY AVENUE EDMONTON, B.C. T5Y 0R7 TEL: (204) 462-2343 FAX: (204) 462-2344 EMAIL: info@meiklejohn.ca	m+m a MEIKLEJOHN ARCHITECTS INC.

Parks Canada Strategic Asset Management, Western and Northern Region	Parcs Canada Gestion Stratégique des Biens, Région de l'Ouest et du Nord
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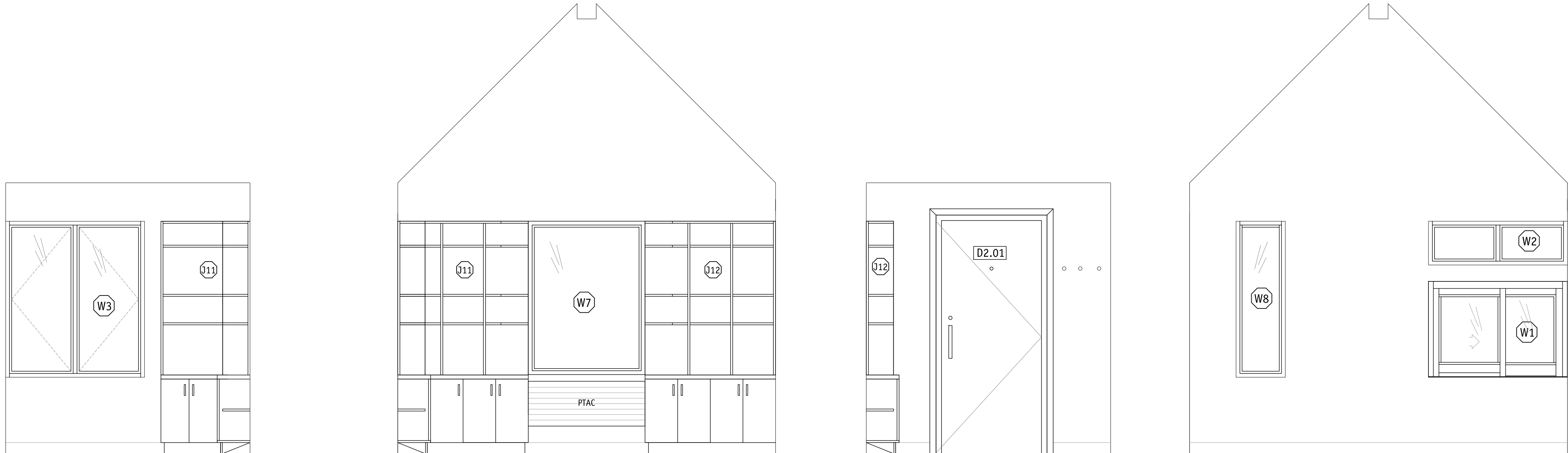
Canada

ICEFIELD PARKWAY GATE REDEVELOPMENT BANFF NATIONAL PARK

Drawing title/Titre du dessin
LARGE AND SMALL
KIOSK ELEVATIONS

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
Collin Crabbe	Collin Crabbe	2017-03-22
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
Collin Crabbe	JM	1:50
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
FII 907/908		13 of 15
Drawing Set No./N° de série du dessin		
A-E-01		

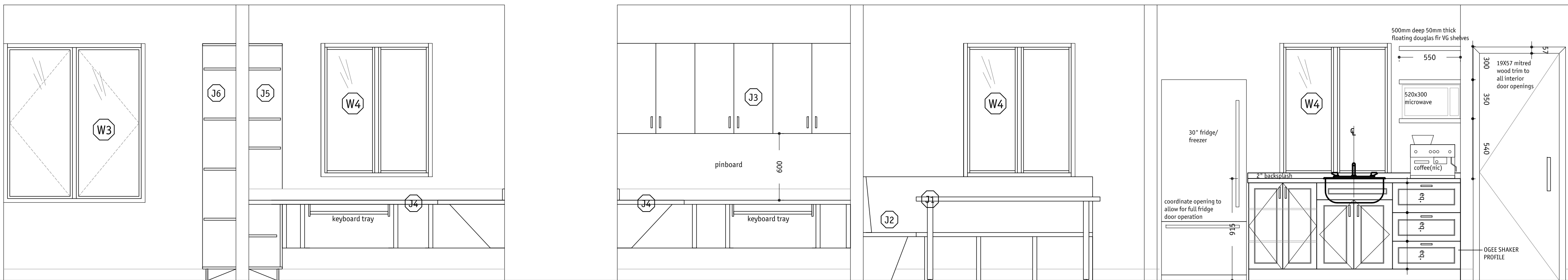


DETAIL 1
ELEVATION 1

DETAIL 1
ELEVATION 2

DETAIL 1
ELEVATION 3

DETAIL 1
ELEVATION 4



DETAIL 2
ELEVATION 1

DETAIL 2
ELEVATION 2

610 680 610



DETAIL 2
ELEVATION 3

DETAIL 2
ELEVATION 4

NOTES

1.

D	2017/05/03	ISSUED FOR TENDER	CC	JM
C	2017/03/22	90% DRAWING SUBMISSION CLIENT REVIEW	CC	
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

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

Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
300 NORTH STREET EDMONTON, B.C. V6A 1S2 TEL: 250.482.2343 FAX: 250.482.2344 EMAIL: info@meiklejohn.ca 225 BROADWAY VICTORIA, B.C. V8V 1P7 TEL: 250.742.3024 FAX: 250.742.8567 EMAIL: info@meiklejohn.ca	m+m a MEIKLEJOHN ARCHITECTS INC.

Parks Canada Strategic Asset Management, Western and Northern Region	Parcs Canada Gestion Stratégique des Biens, Région de l'Ouest et du Nord
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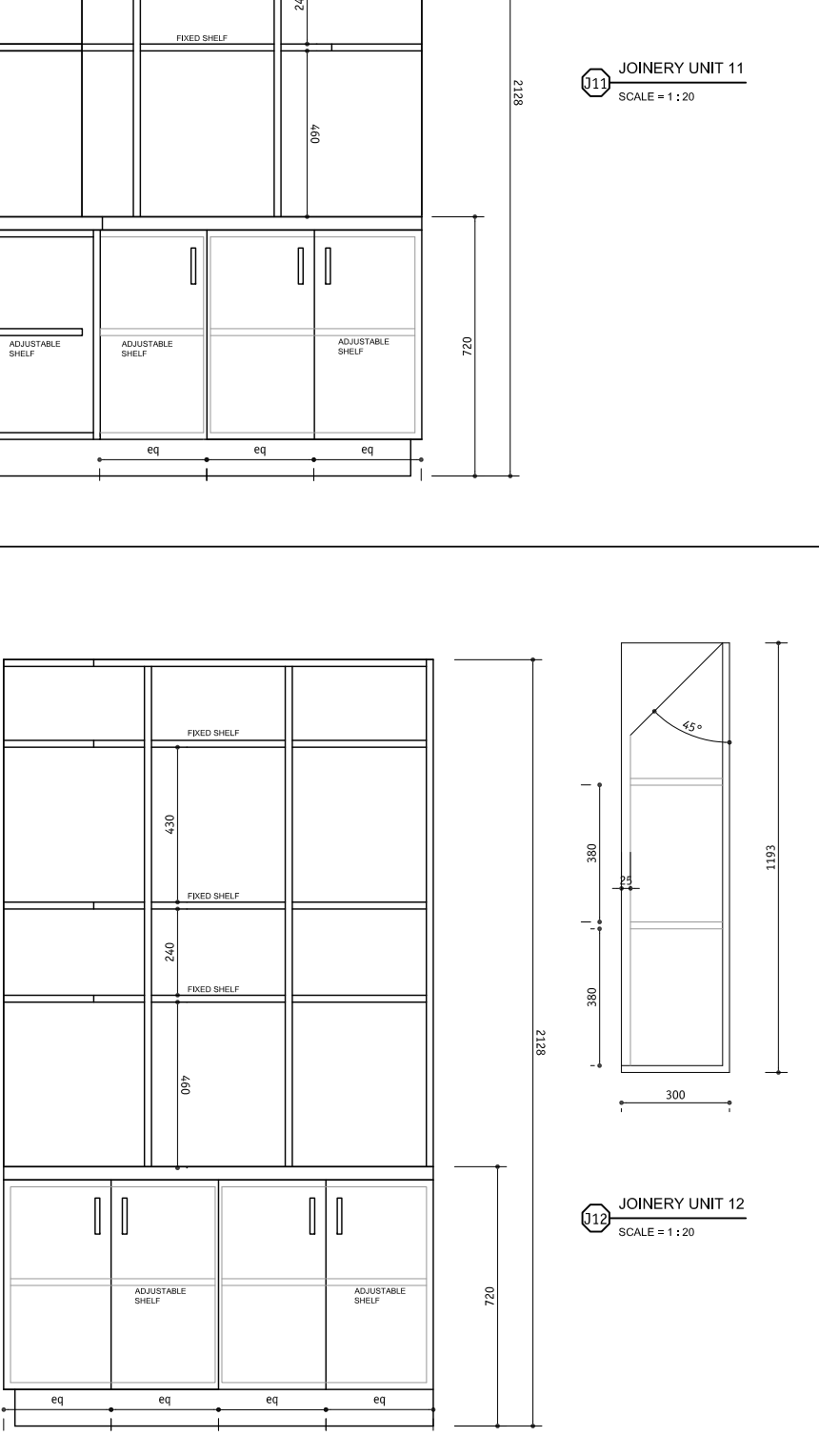
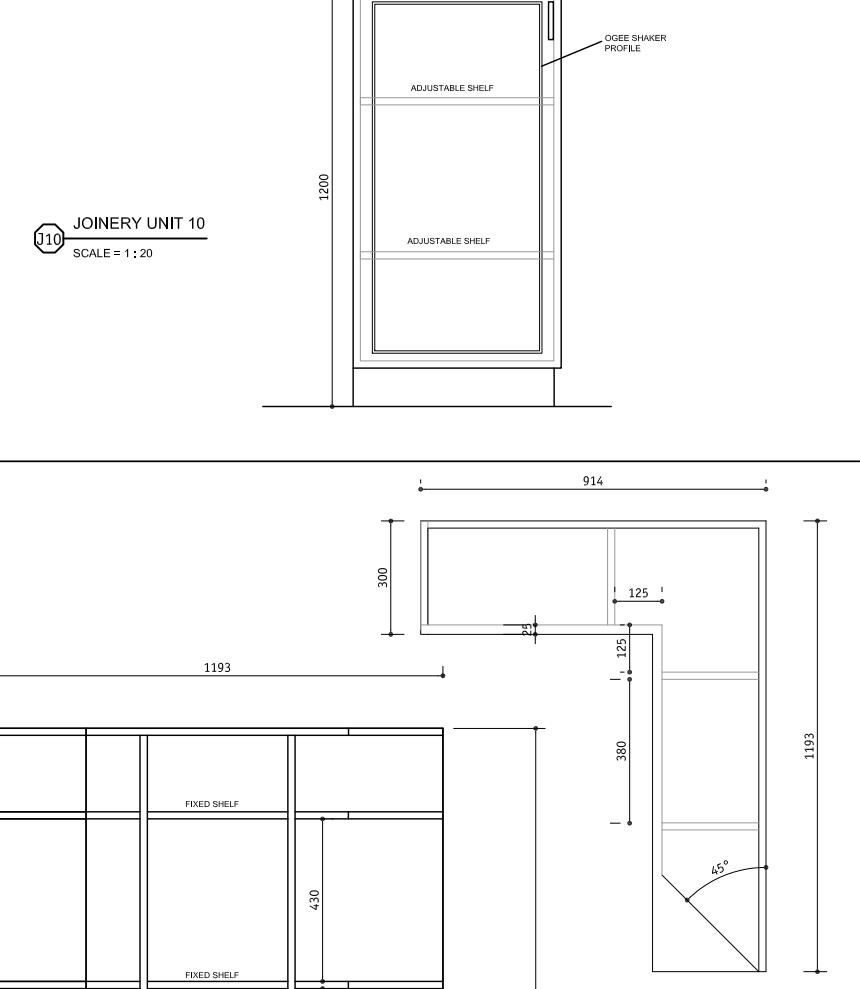
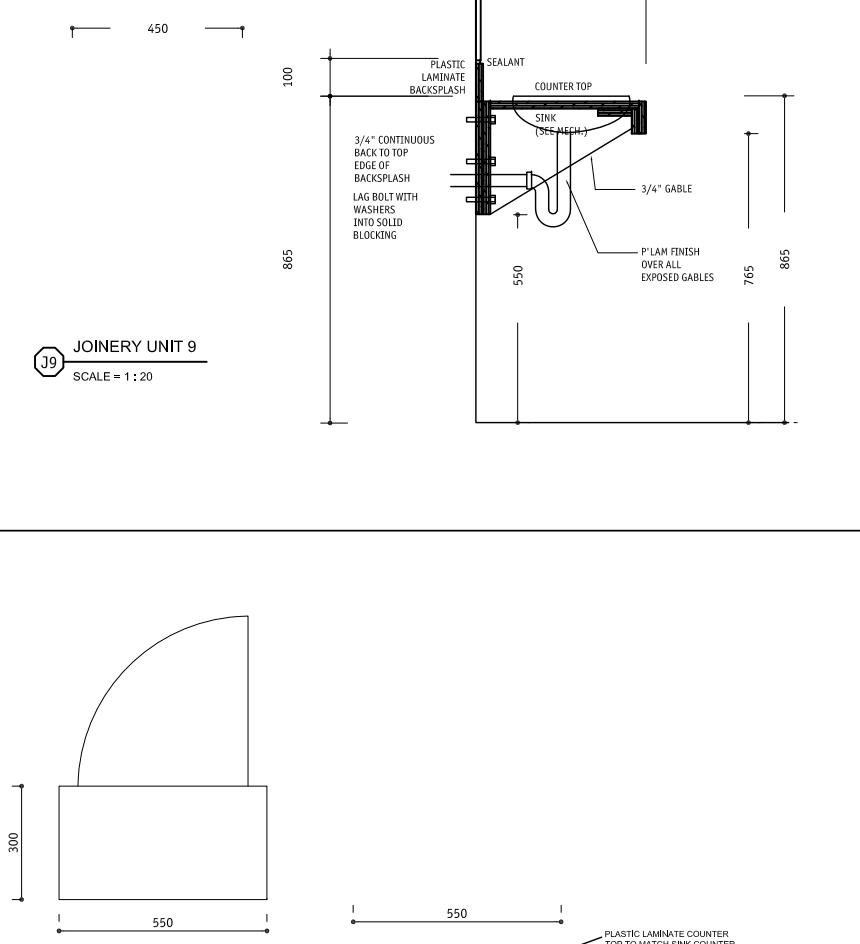
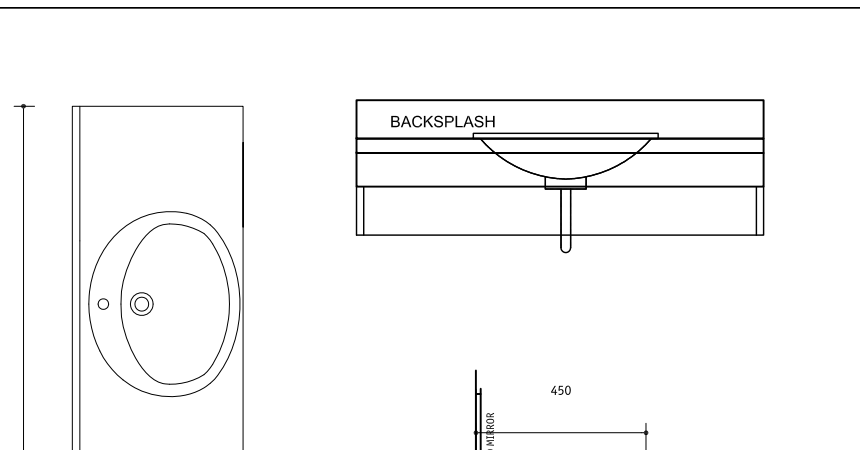
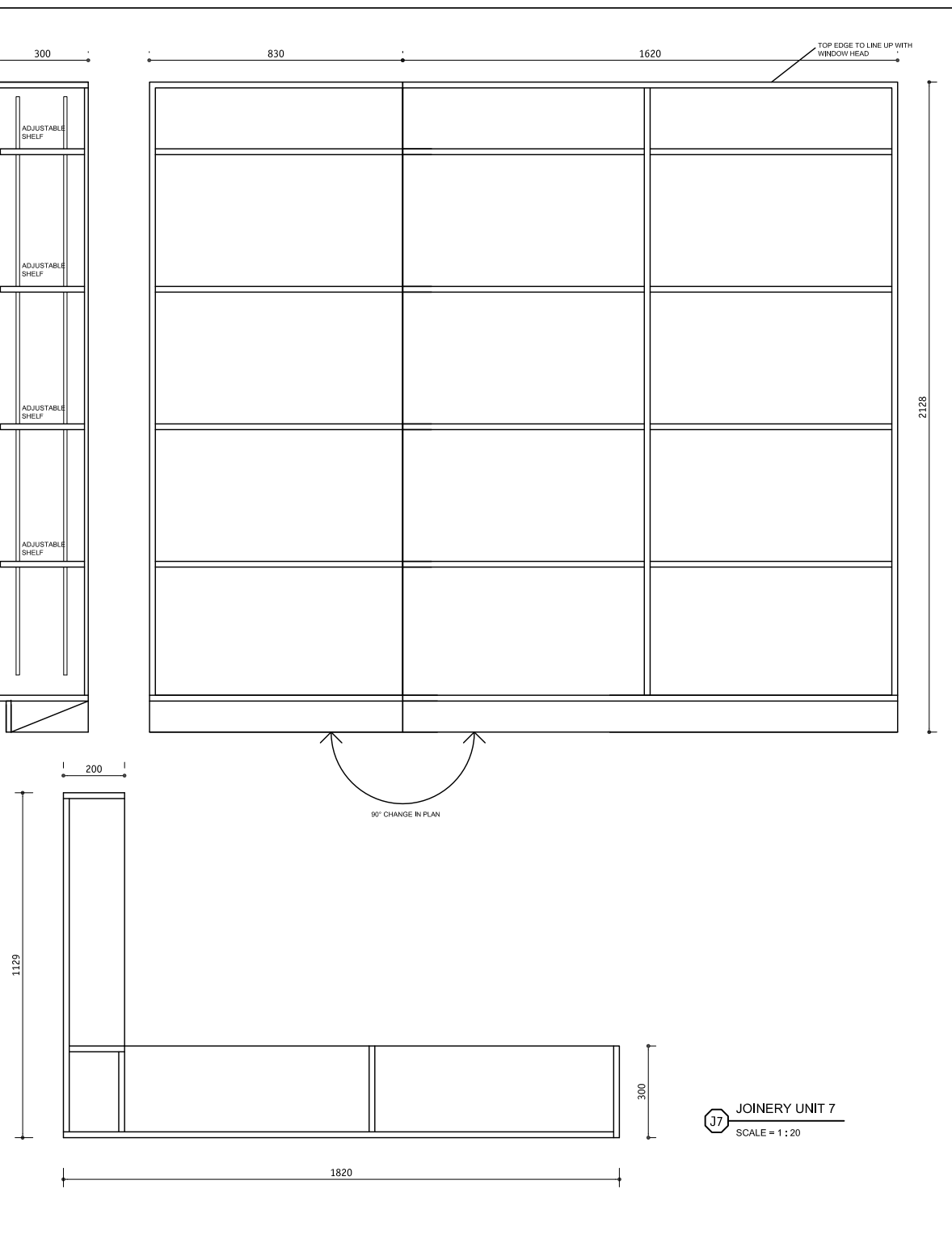
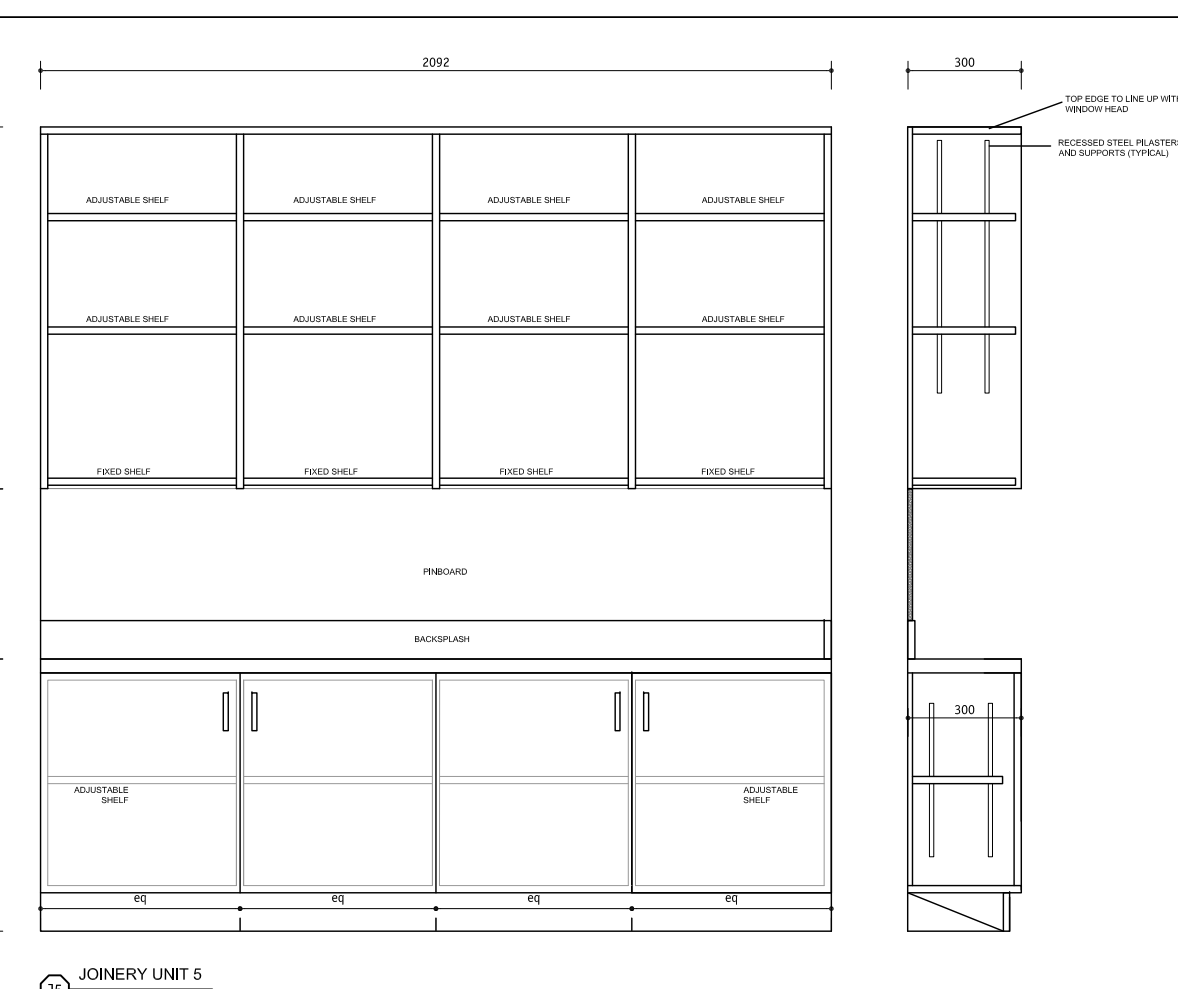
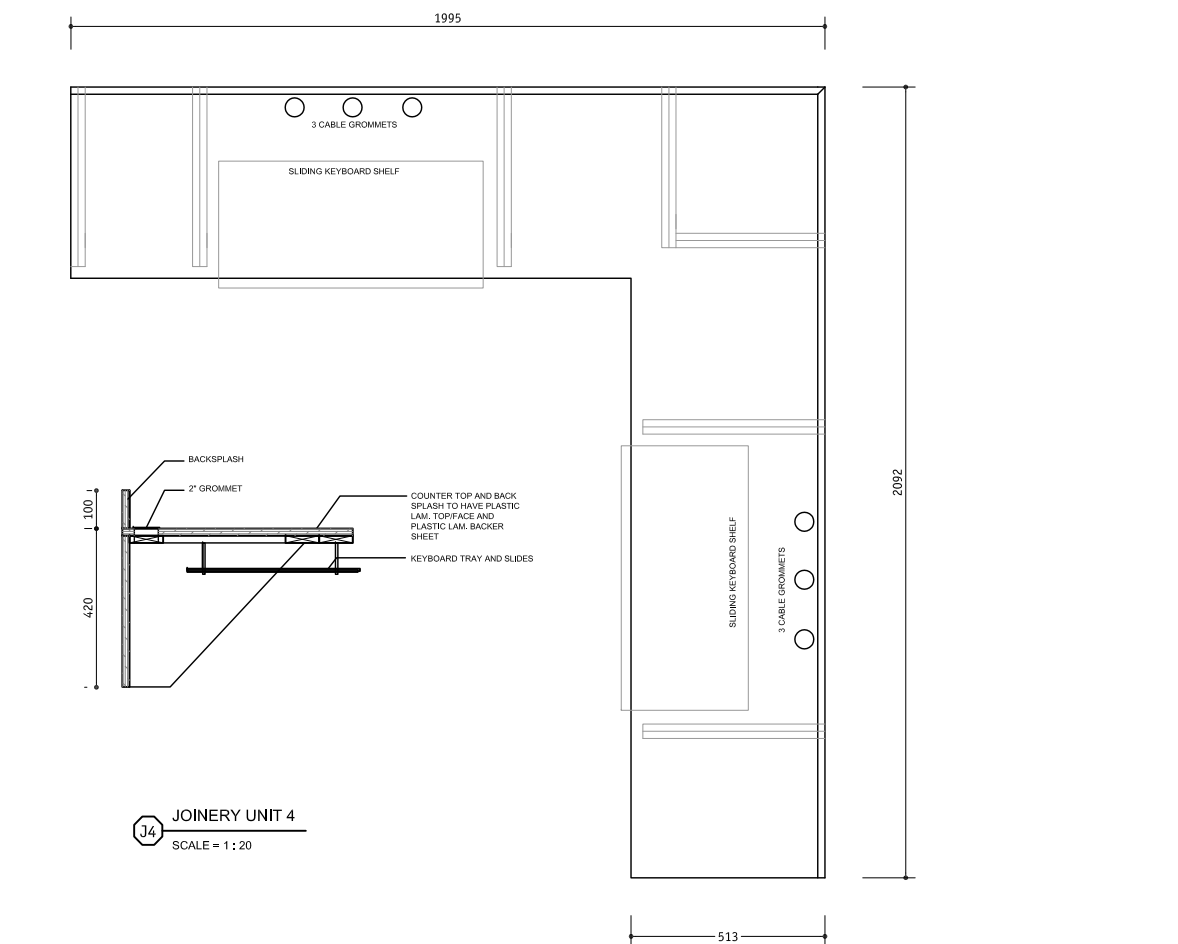
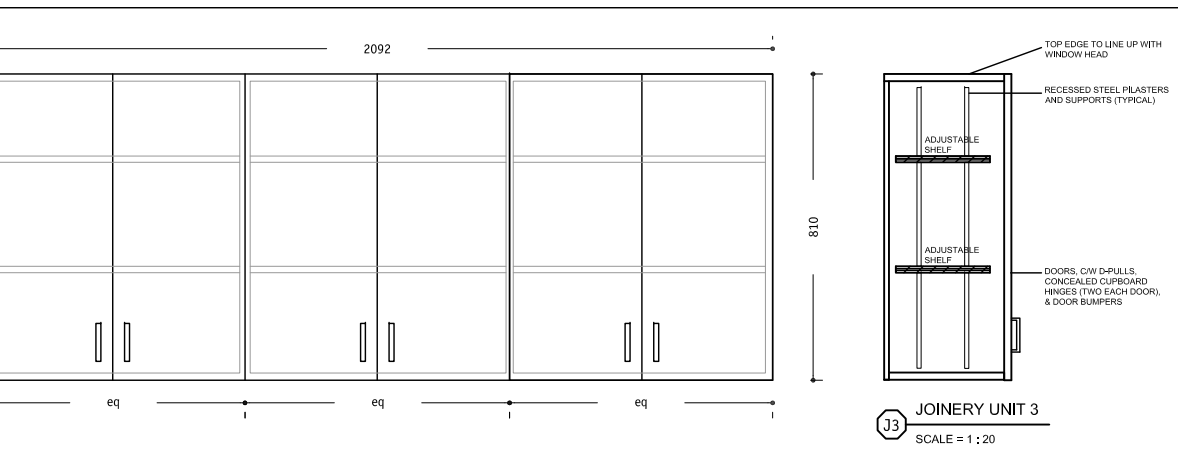
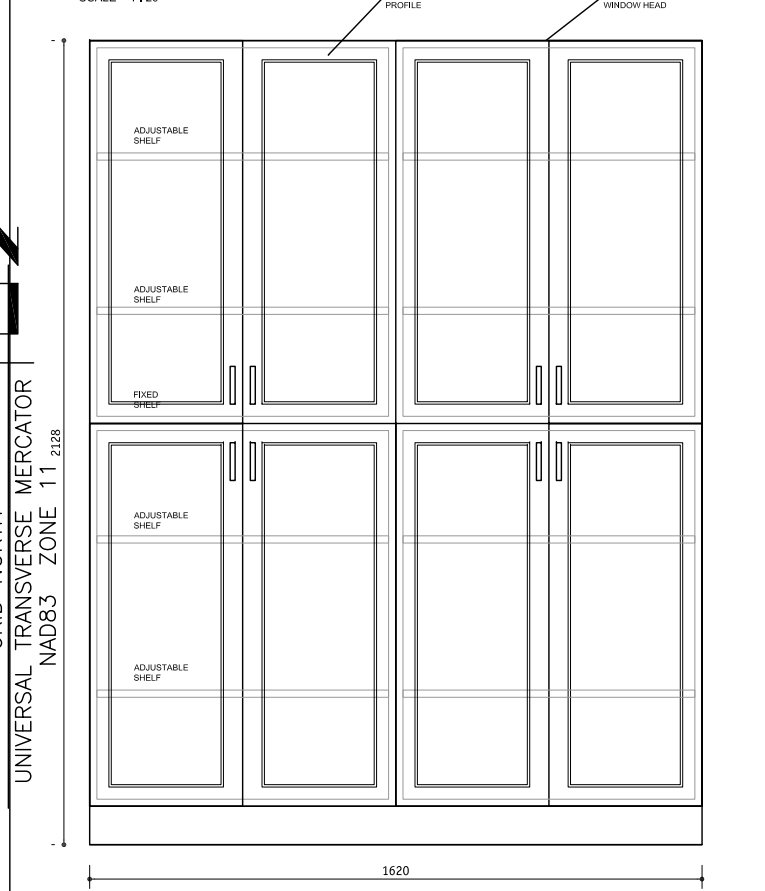
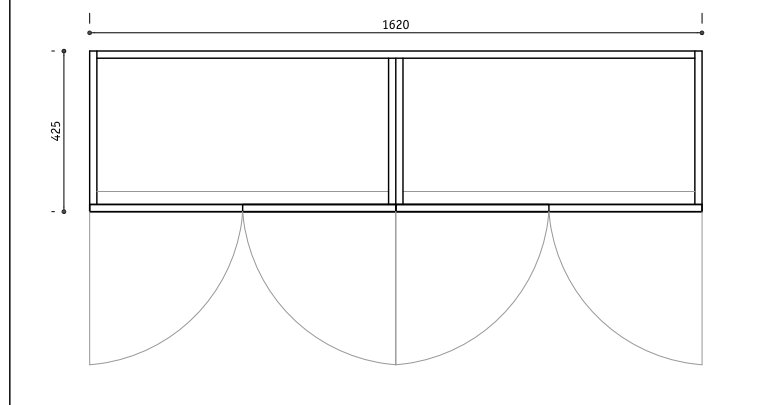
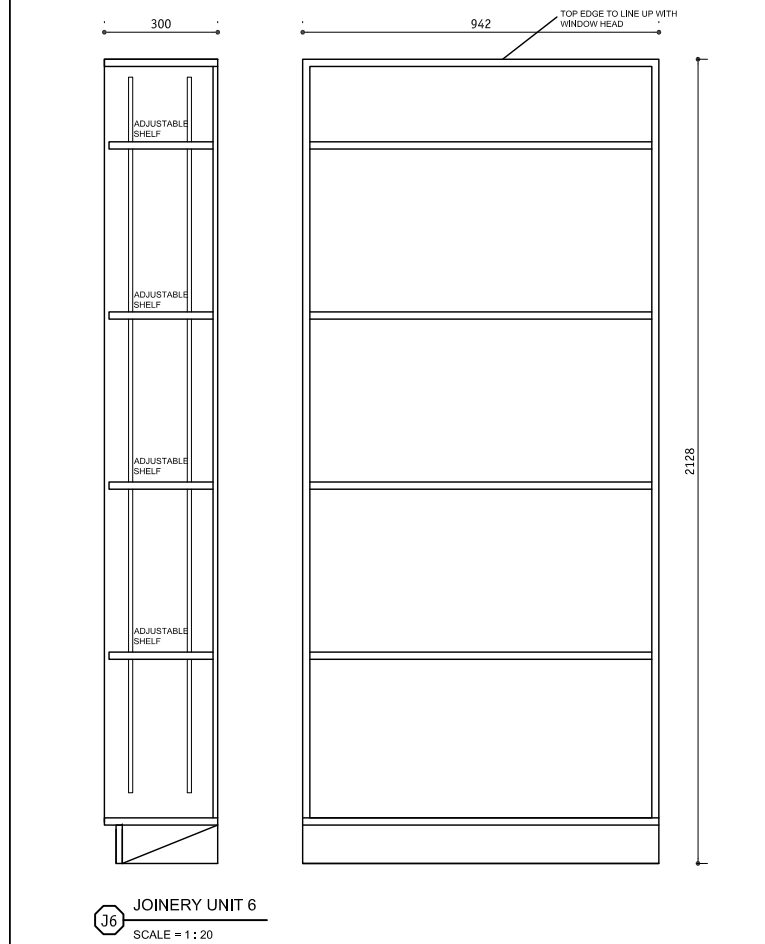
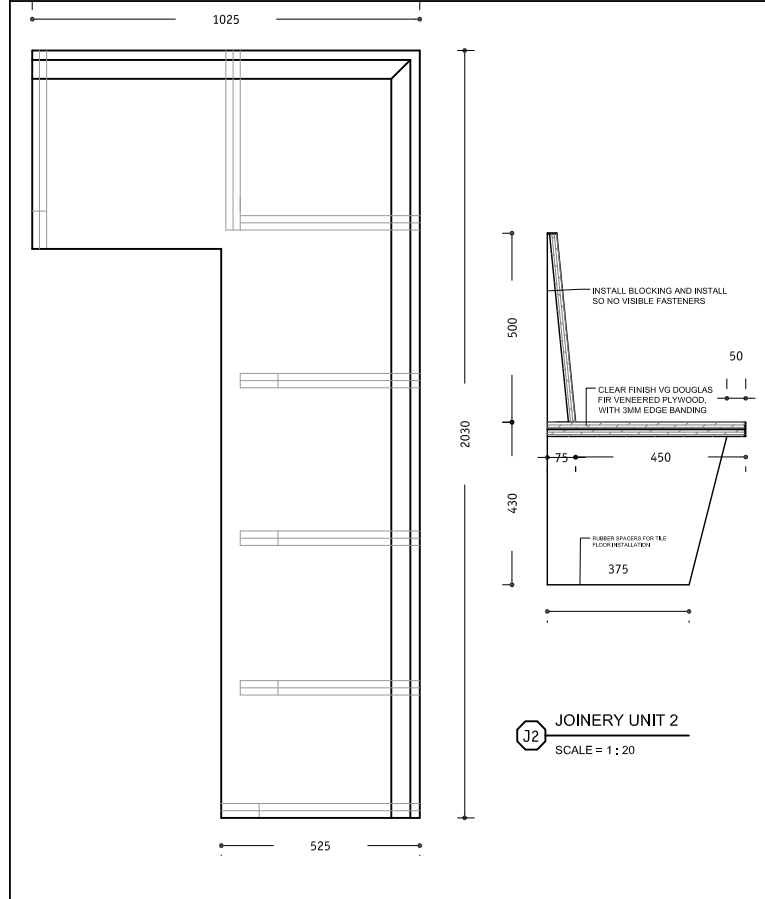
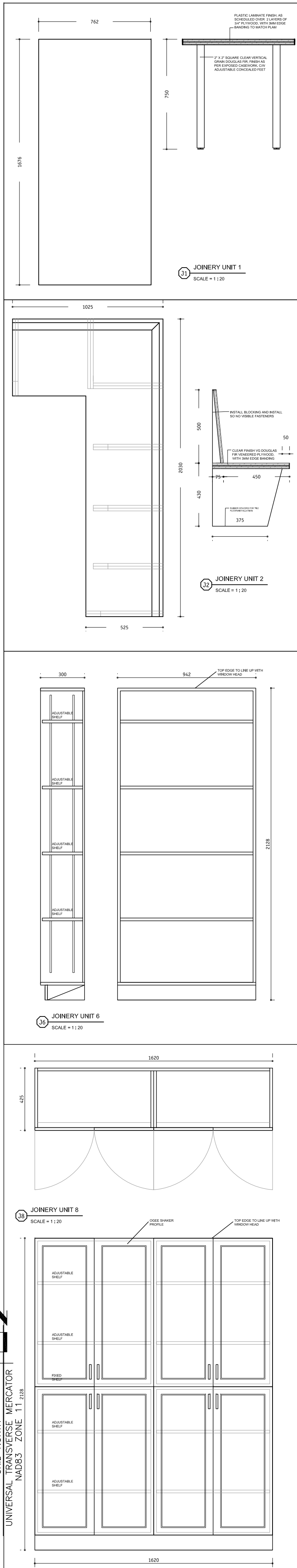
Canada

ICEFIELD PARKWAY GATE REDEVELOPMENT BANFF NATIONAL PARK

Drawing title/Titre du dessin
INTERIOR ELEVATIONS

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
Collin Crabbe	Collin Crabbe	2017-03-22
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
Collin Crabbe	JM	AS NOTED
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
FII 907/908		14 of 15
Drawing Set No./N° de série du dessin		A-IE-01



TILE

reference product: Julian Tile Urban
profile/size: 12"x24"
colour: Francoforte

PAINT

wall paint
reference product: Benjamin Moore Natura Paint
colour: Simply White - Eggshell

ceiling paint
reference product: Benjamin Moore Natura Paint
colour: Simply White - Eggshell

door paint
reference product: Benjamin Moore
colour: Barren Plain - Semi-Gloss

DOOR TRIM

reference product: VG DOUGLAS FIR
size: 19mm X 57mm
finish: clear

COAT HOOKS

reference product: Richelieu
size: hook 5112
finish: stainless steel

WALL BASE

install to all walls in all rooms
material: square cellular PVC vinyl
profile: rectangular
colour: white
size: 25mm x 100mm

WALL COVERING

pin board
manufacturer: koroseal
colour: suntan

PLASTIC LAMINATE

kitchen counters and break table
manufacturer: formica
pattern: 5344c-58 seed
finish: matt finish

desk and work surfaces
manufacturer: formica
pattern: 927c-58 folkstone
colour: matt finish

washroom millwork
manufacturer: formica
pattern: 923c-58 surf
colour: matt finish

NOTES

1.

D	2017/05/03	ISSUED FOR TENDER	CC	JM
C	2017/03/22	90% DRAWING SUBMISSION CLIENT REVIEW	CC	
No.	Date	Description	Drawn by Dessine par	Approved Approuve

Revision / Revision

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

Linear dimensions in millimetres	Dimensions lineaires en millimetres
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Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingenieur

MEIKLEJOHN ARCHITECTS INC.

218 HORN STREET
EDMONTON, B.C.
V6A 1S2
TEL: (204) 462-2343
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211 BROADWAY AVENUE
EDMONTON, B.C.
T5Y 0K7
TEL: (204) 764-2024
FAX: (204) 764-8567
EMAIL: info@meiklejohn.ca

Parks Canada
Strategic Asset
Management,
Western and Northern
Region

Parcs Canada
Gestion Stratégique
des Biens,
Région de l'Ouest et
du Nord

Canada

ICEFIELD PARKWAY GATE REDEVELOPMENT BANFF NATIONAL PARK

Drawing title/Titre du dessin JOINERY AND FINISHING DETAILS

Surveyed by/Arpente par	Drawn by/Dessine par	Date
Collin Crabbe	Collin Crabbe	2017-03-22
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
Collin Crabbe	JM	AS NOTED
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
FII 907/908		15 of 15
Drawing Set No./N° de série du dessin		A-IE-02

1 ELECTRICAL SITE PLAN – DAVID THOMPSON HIGHWAY KIOSK
EDSP-01/ 1:500

GENERAL NOTES:

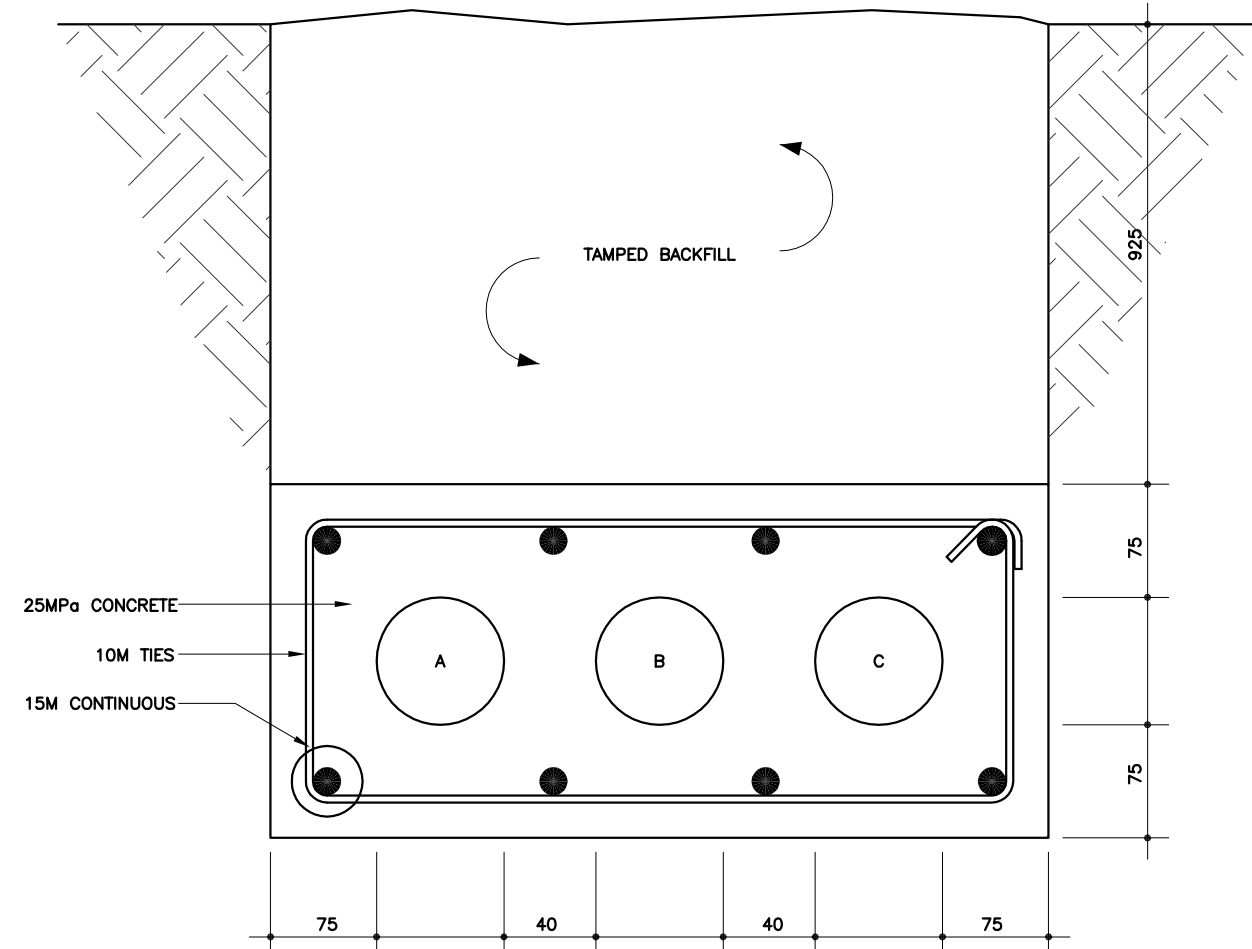
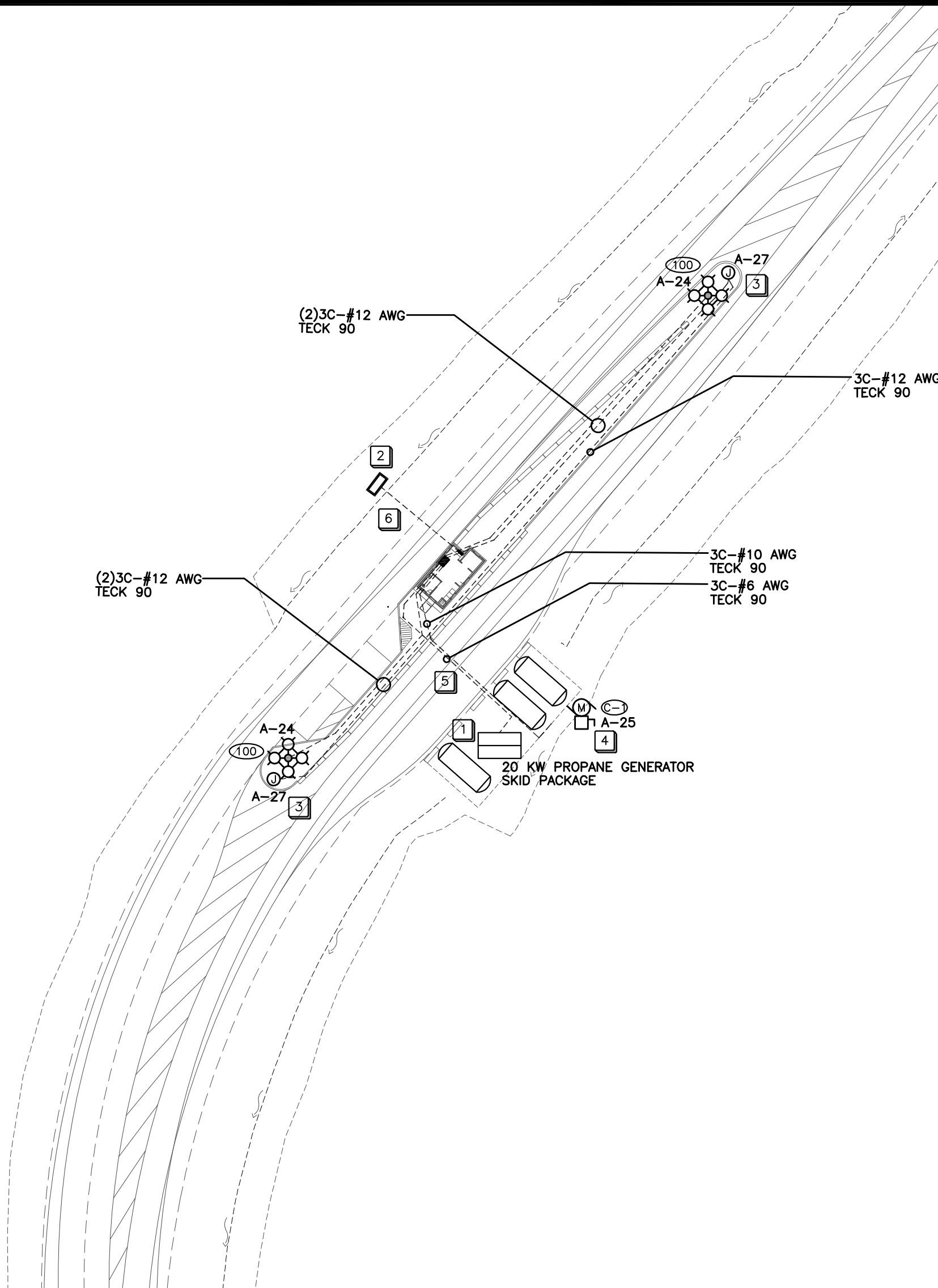
- REFER TO SPECIFICATIONS FOR ADDITIONAL PROJECT REQUIREMENTS.
- COORDINATE LOCATION OF GENERATOR PACKAGE WITH PROPANE FUEL STORAGE SYSTEM (PROPANE SYSTEM BY OTHERS). ASSIST WITH TIE-IN OF GENERATOR PACKAGE TO PROPANE FUEL SYSTEM, INCLUDING BUT NOT LIMITED TO FUEL SYSTEM STATUS SIGNALS.
- ELECTRICAL CONTRACTOR TO DETERMINE BEST ROUTING OF BURIED CONDUITS THAT WILL MINIMIZE THE NEED FOR TRENCHING PRIOR TO INSTALLATION.

KEY NOTES:

- VENDOR SUPPLIED 20KW (PRIME) GENERATOR MODULAR SKID PACKAGE C/W 900W STAND ALONE, BATTERY BACK-UP SOLAR POWER SYSTEM MOUNTED TO ROOF ASSEMBLY. REFER TO BOOK SPECIFICATIONS FOR FULL REQUIREMENTS OF VENDOR SUPPLIED SCOPE OF WORK. COORDINATE LOCATION OF STRUCTURAL FOUNDATION WITH GENERAL CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. ELECTRICAL CONTRACTOR SHALL CARRY ALL COSTS FOR SUPPLY, DELIVERY, AND INSTALLATION OF GENERATOR SKID PACKAGE. FINAL ORIENTATION OF BUILDING TO BE DETERMINED ON SITE PRIOR TO COMMENCEMENT OF WORK.
- PROPOSED COMMUNICATION PEDESTAL LOCATION. FINAL PEDESTAL LOCATION IS TO BE COORDINATED WITH TELUS PRIOR TO INSTALLATION.
- JUNCTION BOX FOR FLASHING WARNING BEACON, CONFIRM LOCATION OF BEACON PRIOR TO INSTALLATION, BEACON IS TO BE SUPPLIED BY EMERGENCY CIRCUIT, WHICH IS TO BE LEFT ON DURING WINTER MONTHS.
- SUBMERSIBLE WATER PUMP TO BE LOCATED IN CISTERN TANK AND POWERED BY OUTDOOR WEATHERPROOF RECEPTACLE. CONFIRM CISTERN TANK LOCATION PRIOR TO INSTALLATION.
- UNDERGROUND CONCRETE DUCT BANK TO BE INSTALLED TO PROTECT CABLES RUN BENEATH HIGHWAY. REFER TO DETAIL #2 ON DWG. E-DSP-01. A MINIMUM DISTANCE OF 1.8 METERS IS TO BE MAINTAINED BETWEEN OUTER EDGE OF CONCRETE DUCT BANK AND ANY MECHANICAL LINES (WATER, AND SEWAGE). COORDINATE LOCATION OF DUCT BANK WITH MECHANICAL PRIOR TO INSTALLATION.
- UNDERGROUND CONCRETE DUCTBANK TO BE INSTALLED TO PROTECT CABLES RUN BENEATH HIGHWAY. REFER TO DETAIL #3 ON DWG. E-DSP-01. A MINIMUM DISTANCE OF 1.8 METERS IS TO BE MAINTAINED BETWEEN OUTER EDGE OF CONCRETE DUCT BANK AND ANY MECHANICAL LINES (WATER, AND SEWAGE). COORDINATE LOCATION OF DUCT BANK WITH MECHANICAL PRIOR TO INSTALLATION.

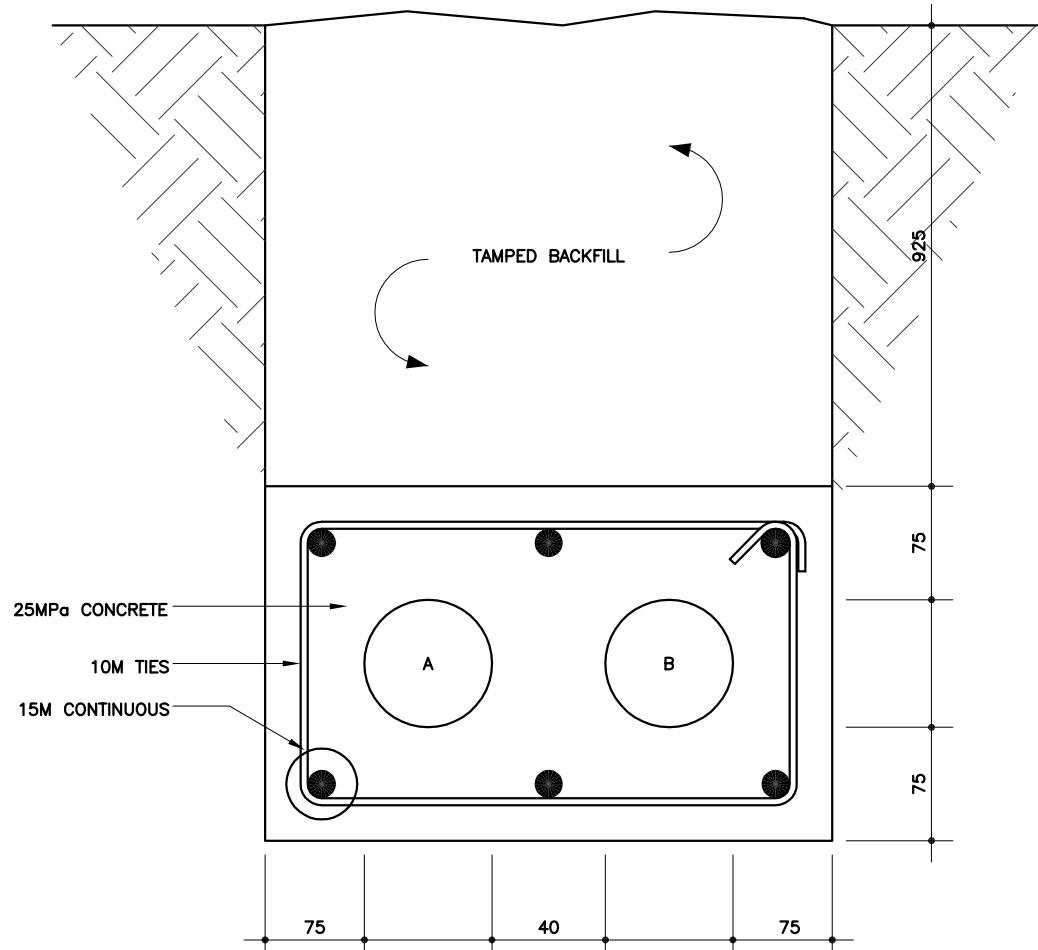
EXTERIOR LUMINAIRE SCHEDULE							
TYPE	MANUFACTURER	DESCRIPTION	CATALOGUE NO.	LAMP	MOUNTING	PICTURE	NOTES
100	CREE	LED OUTDOOR LIGHT	RSW-S1-HT-2ME-30W-30K-UL-GY-N	LED	OUTDOOR		110KV SURGE SUPPRESSION IS TO BE INCLUDED WITH OUTDOOR LIGHTING FIXTURES

ALTERNATE LUMINAIRES ARE ACCEPTABLE PROVIDED THAT THEY ARE I.D.A COMPLIANT. CONTRACTOR MUST SUBMIT ALTERNATE LUMINAIRE DATA SHEETS FOR APPROVAL PRIOR TO CLOSE OF TENDER.



A	78mm DB2 CONDUIT, SLEEVE FOR TECK 90, CABLE SIZE INDICATED ON DWG.
B	78mm DB2 CONDUIT, SLEEVE FOR TECK 90, CABLE SIZE INDICATED ON DWG.
C	78mm DB2 CONDUIT, SLEEVE FOR TECK 90, CABLE SIZE INDICATED ON DWG.

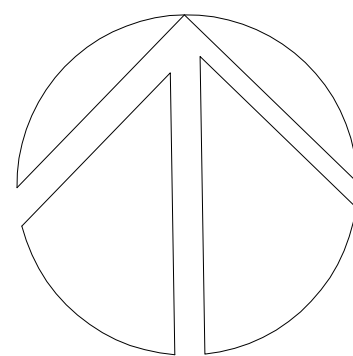
2 ELECTRICAL SITE PLAN – NIBLOCK HIGHWAY KIOSK
EDSP-01/ 1:500



A	78mm DB2 CONDUIT, SLEEVE FOR TECK 90, CABLE SIZE INDICATED ON DWG.
B	78mm DB2 CONDUIT, SLEEVE FOR TECK 90, CABLE SIZE INDICATED ON DWG.

3 ELECTRICAL SITE PLAN – NIBLOCK HIGHWAY KIOSK
EDSP-01/ 1:500

NORTH



PERMIT TO PRACTICE
WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional
Engineers and Geoscientists of Alberta

4	2017/05/03	ISSUED FOR TENDER	DU	KR
3	2017/03/22	REVISED 90% CLIENT REVIEW	DU	KR
2	2016/12/07	ISSUED FOR 75% REVIEW	DU	KR
1	2016/10/24	ISSUED FOR REVIEW	CM	
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 Sceau de l'ingénieur
 1940 Macleod Trail S.W. Suite 800 CALGARY ALBERTA T2H 2S4 PHONE: 403.255.7946 • FAX: 403.255.7956 • WWW.WSPGROUP.COM	

 Strategic Asset Management, Western and Northern Region	Parcs Canada Gestion Stratégique des Biens, Région de l'Ouest et du Nord
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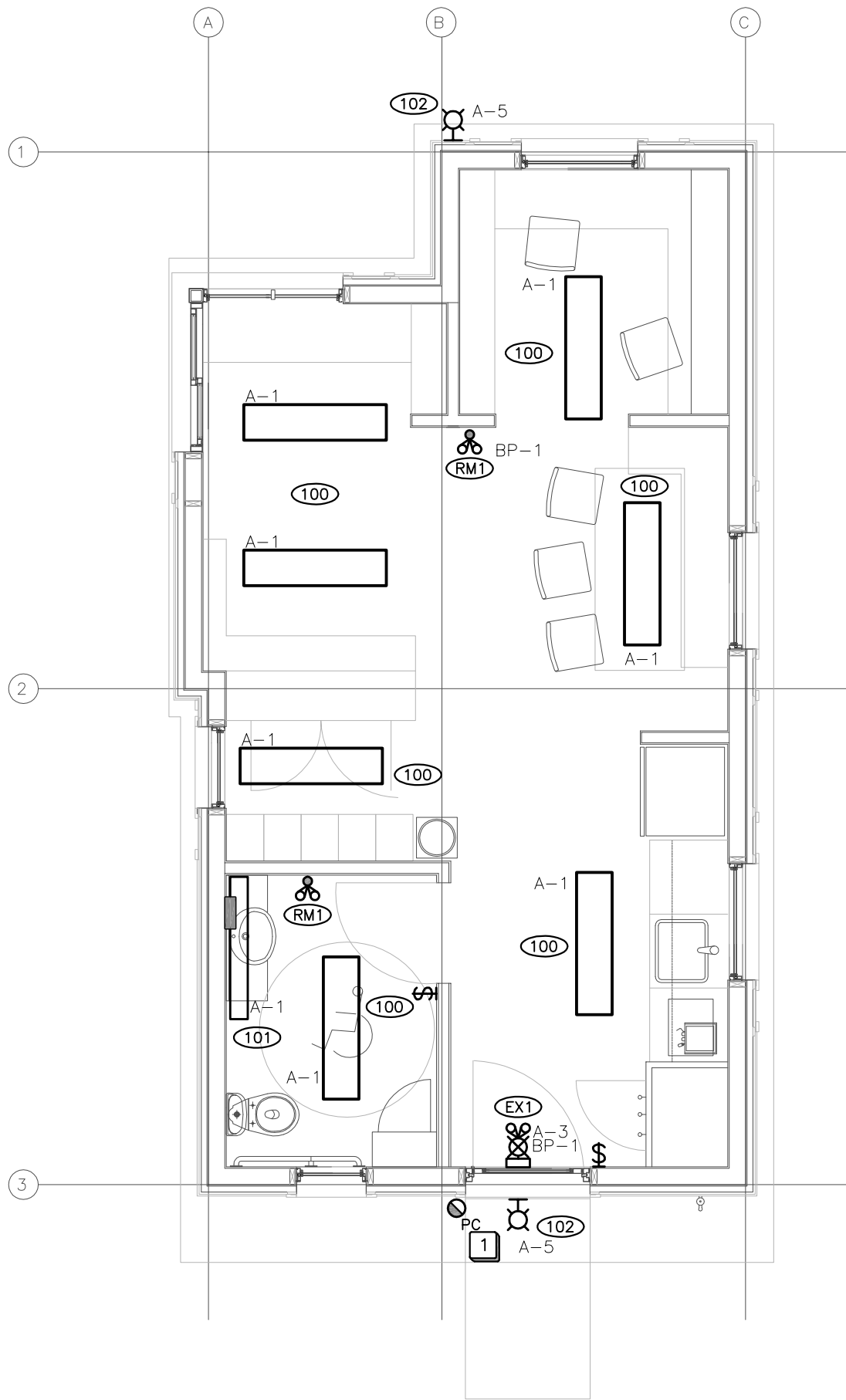
Canada

Project Title/Titre du projet
ICEFIELDS PARKWAY

Drawing Title/Titre du dessin
ELECTRICAL SITE PLAN
DAVID THOMPSON
HIGHWAY KIOSK

Surveyed by/Arpenté par DU	Drawn by/Dessiné par CM	Date 2017/03/22
Designed by/Concept par DU	Reviewed by/Revisé par KR	Scale/Echelle
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./N° du projet FII 907/908	Asset No./N° du bien	Sheet No./ N° de la feuille 01 of 04
Drawing Set No./N° de série du dessin E-DSP-01		

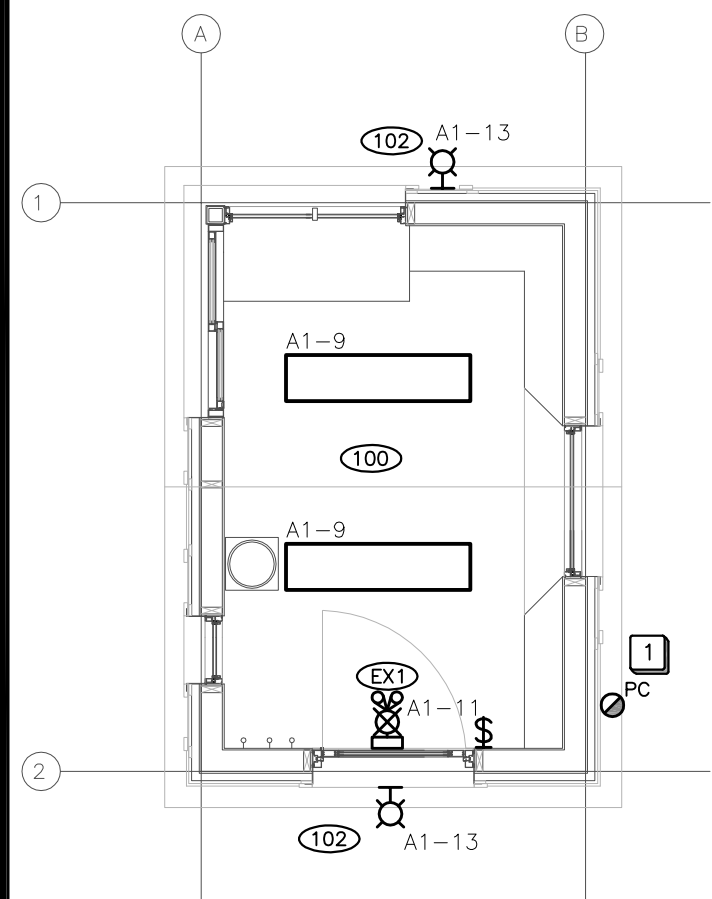
Drawing Set No./N° de serie du dessin E-NSP-01	02 of 04
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1 DAVID THOMPSON HIGHWAY KIOSK LIGHTING PLAN
ELP-01/ 1:50

KEYNOTES:

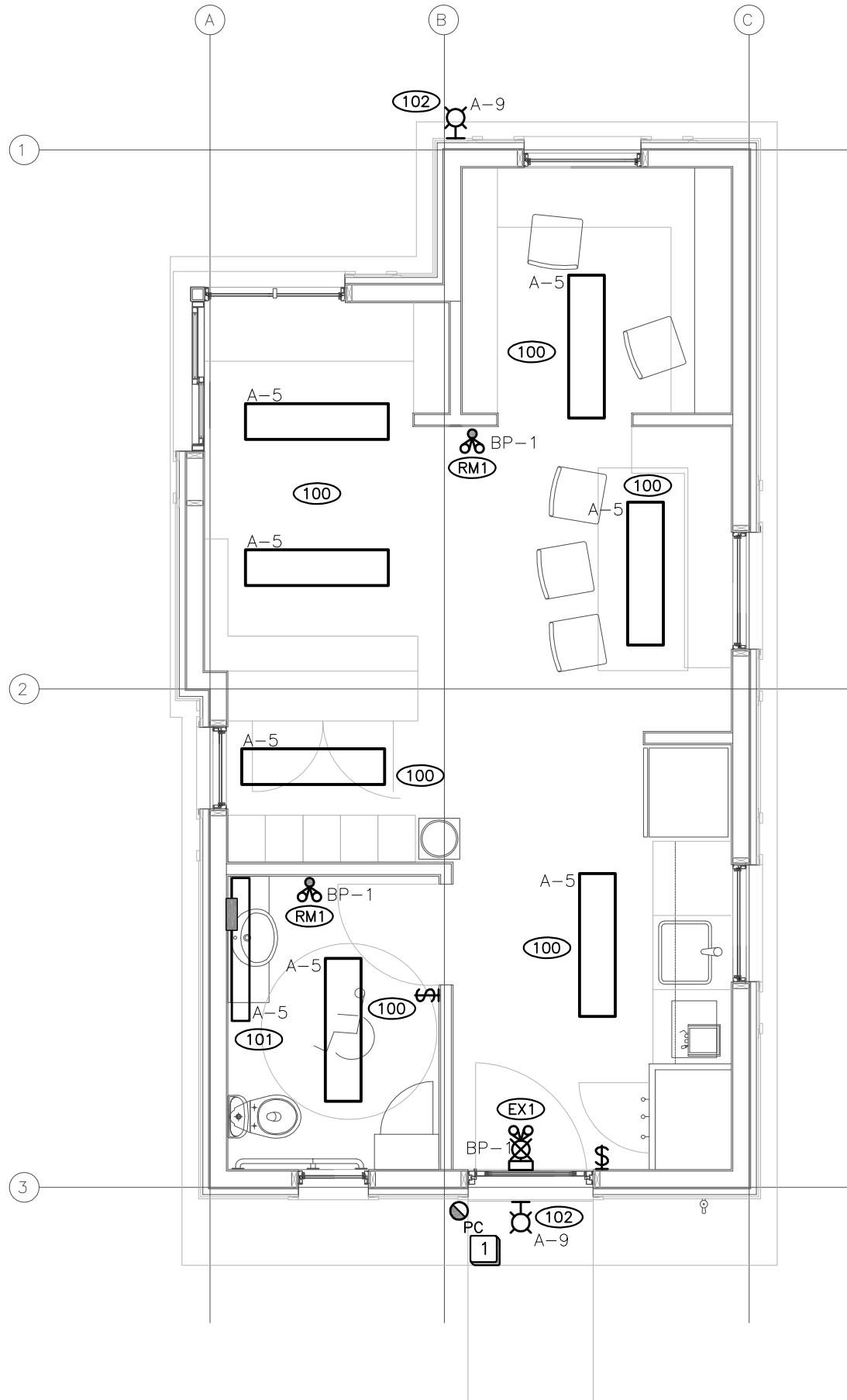
- 1 PHOTOCELL TO BE INSTALLED ON EXTERIOR WALL OF BUILDING TO CONTROL OUTDOOR MOUNTED LIGHTS ON KIOSK. REFER TO DETAIL #3 ON DRAWING E-LP-01



2 NIBLOCK HIGHWAY GATE BOOTH (TYP. OF2) POWER & SYSTEMS PLAN
ELP-01/ 1:50

KEYNOTES:

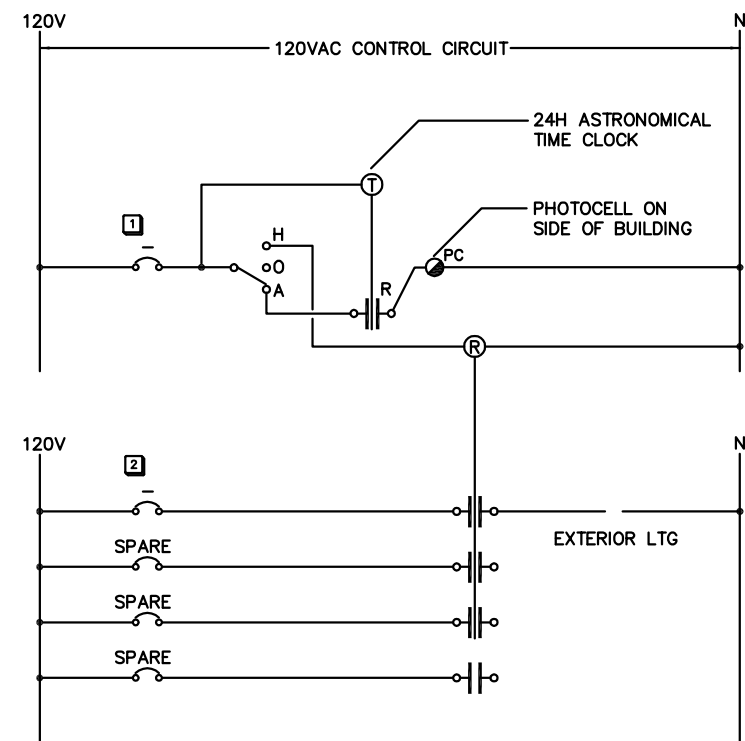
- 1 PHOTOCELL TO BE INSTALLED ON EXTERIOR WALL OF BUILDING TO CONTROL OUTDOOR MOUNTED LIGHTS ON KIOSK. REFER TO DETAIL #3 ON DRAWING E-LP-01



3 NIBLOCK HIGHWAY MAIN KIOSK POWER & SYSTEMS PLAN
ELP-01/ 1:50

TYPE	MANUFACTURER	DESCRIPTION	CATALOGUE NO.	LAMP	MOUNTING	PICTURE	NOTES
100	COOPER	4' SUSPENDED DIRECT/INDIRECT LUMINAIRE	J3-UL-3L35-1C-UNV-AC48-ST-4-STD-W	LED	CEILING SUSPENDED		--
101	COOPER	4' WALL BRACKET	ABCLD-LD4-40SL-F-UNV-LB35-SLTD1-U	LED	CEILING SUSPENDED		--
102	COOPER	OUTDOOR LIGHT FIXTURE	GWC-AF-02-LED-E1-T3-GM	LED	WALL MOUNTED		REFER TO ARCHITECTURAL ELEVATION FOR MOUNTING HEIGHT
EX1	LUMACELL	LAC SERIES LED EXIT LIGHT WITH UNIVERSAL MOUNTING C/W DIRECTIONAL GREEN PICTOGRAM FACE PLATE.	LAC-1-W-1280-2-LD9	LED	WALL MOUNT		
RM1	LUMACELL	EMERGENCY LIGHTING REMOTE MOUNTED	MQM-2-LD10	LED	WALL MOUNT		

ALTERNATE LUMINAIRES ARE ACCEPTABLE. CONTRACTOR MUST SUBMIT ALTERNATE LUMINAIRE DATA SHEETS FOR APPROVAL PRIOR TO CLOSE OF TENDER.

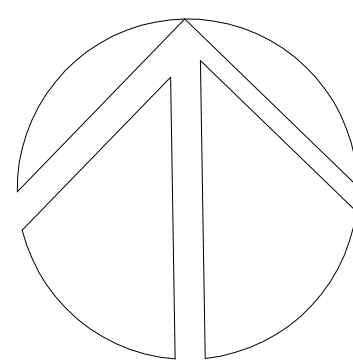


KEYNOTES:

- 1 REFER TO PANEL SCHEDULE FOR CIRCUIT SUPPLYING TIMECLOCK AND H.O.A
- 2 REFER TO PANEL SCHEDULE FOR CIRCUIT SUPPLYING EXTERIOR LIGHTING.

4 EXTERIOR LIGHTING CONTROL SCHEMATIC
ELP-01/ 1:50

NORTH



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WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional
Engineers and Geoscientists of Alberta

4	2017/05/03	ISSUED FOR TENDER	DU	KR
3	2017/03/22	REVISED 90% CLIENT REVIEW	DU	KR
2	2016/12/07	ISSUED FOR 75% REVIEW	DU	KR
1	2016/10/24	ISSUED FOR REVIEW	CM	
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
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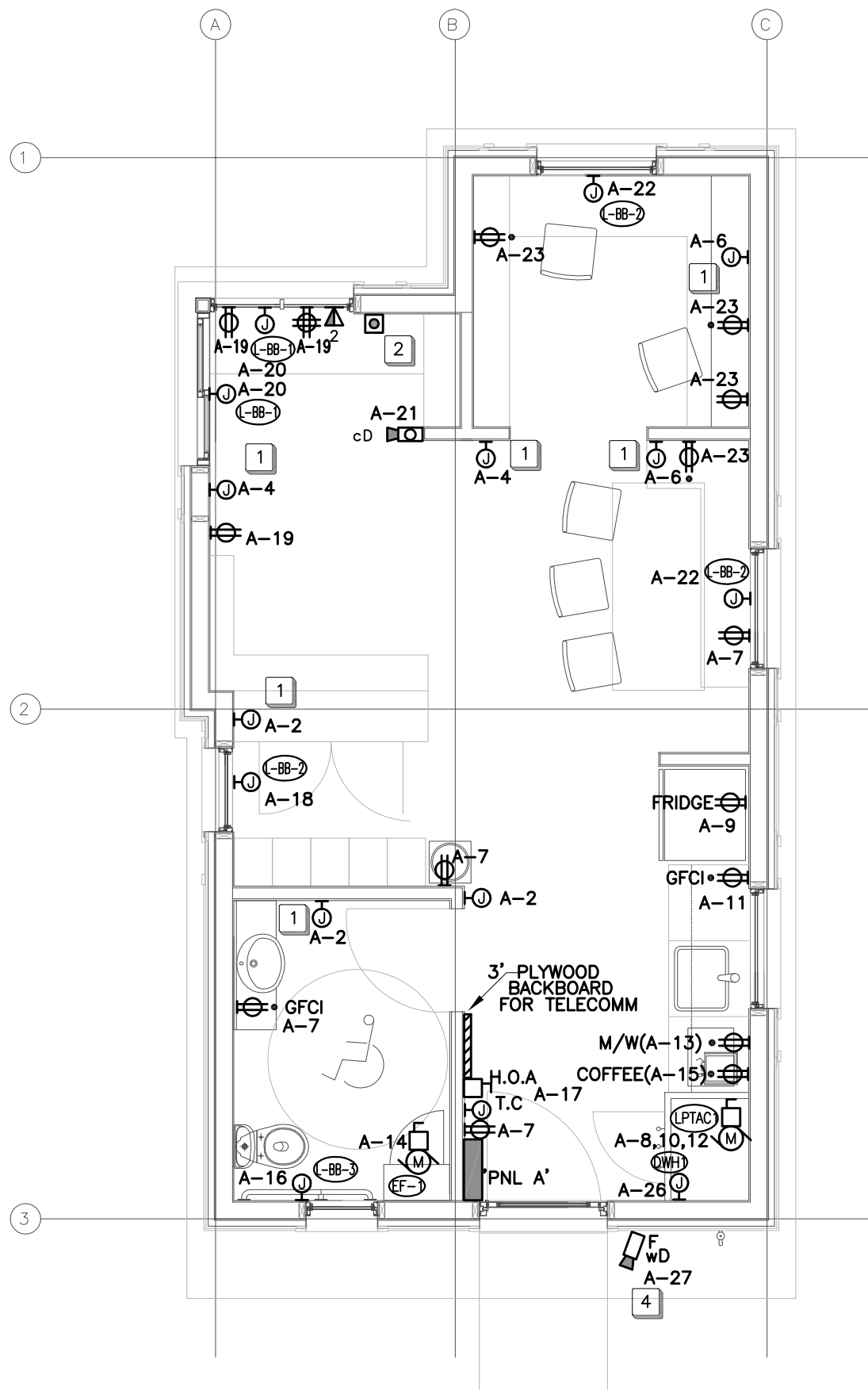
	Parks Canada	Parcs Canada
Strategic Asset Management, Western and Northern Region	Gestion Stratégique des Biens, Région de l'Ouest et du Nord	

Canada

Project title/Titre du projet
ICEFIELDS PARKWAY

Drawing title/Titre du dessin
HIGHWAY KIOSK
LIGHTING PLAN

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
CM	CM	2017/03/22
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
DU	KR	
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Project No./N° du projet	Asset No./N° du bien	Sheet No./N° de la feuille
FII 907/908		03 of 04
Drawing Set No./N° de série du dessin		
E-LP-01		



KEYNOTES:

- JUNCTION BOX FOR IN FLOOR HEATING POWER CONNECTION. REFER TO DETAIL #3 ON DWG. E-PS-01
- PANIC BUTTON LOCATION.
- TYPICAL SUB-PANEL IN EACH GATE BOOTH IS TO BE SUPPLIED FROM 'PNL-A' AS INDICATED IN PANEL SCHEDULE.
- EXTERIOR WALL MOUNTED SECURITY CAMERA, C/W WEATHERPROOF ENCLOSURE.

GENERAL NOTES:

- CONFIRM FINAL LOCATION OF ALL MECHANICAL EQUIPMENT PRIOR TO INSTALLATION.

PNL 'A'									
DESCRIPTION	KW	BKR.	CIRCUIT NO.		BKR.	KW	DESCRIPTION		
INTERIOR LIGHTING	0.32	15A	1	2	15A	1.2	IN FLOOR HEAT SOUTH		
EXIT LIGHT	0.1	15A	3	4	15A	1.2	IN FLOOR HEAT N.W		
EXTERIOR LIGHTING	0.26	15A	5	6	15A	0.8	IN FLOOR HEAT N.E		
S.RECEPTACLES/WATER COOLER	0.8	15A	7	8	30A	2.9	L-PTAC-1		
FRIDGE	0.8	15A	9	10		2.9			
COUNTER PLUG	0.4	15A	11	12	3P	2.9			
MICROWAVE	0.4	15A	13	14	15A	0.4	EF-1		
COFFEE MACHINE	0.8	15A	15	16	15A	0.5	L-BB-3		
TIMECLOCK/PHOTOCELL H.O.A	0.4	15A	17	18	15A	0.5	STORAGE L-BB-2		
N.W. RECEPTACLES	0.8	15A	19	20	15A	1.2	N.W. L-BB-1		
SECURITY CAMERA	0.4	15A	21	22	15A	1.2	N.E. L-BB-2		
N.E. RECEPTACLES	1.2	15A	23	24	15A	1.0	EXTERIOR SITE LIGHTING		
CISTERN PUMP	0.8	15A	25	26	20A	1.5	DWH-1		
EMERGENCY CIRCUIT	1.0	15A	27	28	15A				
			29	30	15A				
			31	32	15A				
			33	34	15A				
			35	36	15A				
SPARE			37	38	15A				
SPARE			39	40	15A				
SPARE			41	42	15A				
CONNECTED LOAD	21.58	KW							
DEMAND LOAD (X0.8)	17.26	KW	60 AMPS @ 0.8PF, & 0.8 DIVERSITY 120/208V/3P						
BUS AMPACITY: 100 AMP			VOLTS: 120/208V						
MOUNTING: SURFACE			PHASE: 3ø						
MAIN BKR.: 100A			LOCATION: CORRIDOR						
FEEDER:			FED FROM: 30KVA GENERATOR						

* THIS CIRCUIT IS TO BE LEFT ON FOR CAMERA AND BEACONS DURING WINTER MONTHS

DAVID THOMPSON MECHANICAL EQUIPMENT SCHEDULE

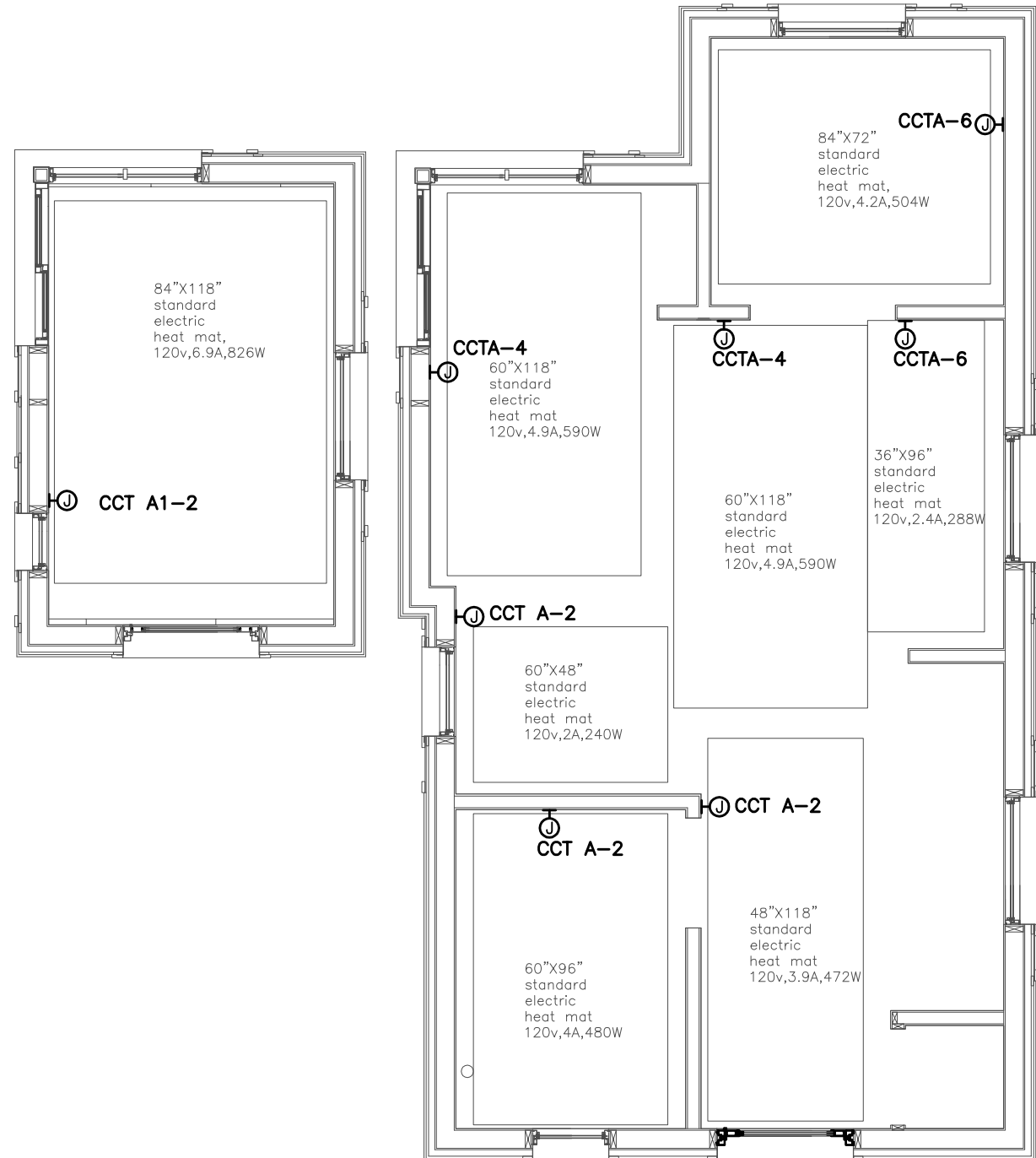
NO.	NAME	LOCATION	HP	KW	FLA	PHASE VOLTAGE	SOURCE	BREAKER	FEEDER	STARTER	NOTES
L-PTAC-1	AIR CONDITIONING UNIT	KIOSK				208V	PNL 'A'	30A 3P	3/4"C-3ø10AWG		1,3
L-BB-1	BASEBOARD HEATER	KIOSK		0.5		120V	PNL 'A'	15A 1P	3/4"C-2ø12AWG		1,2,3
L-BB-2	BASEBOARD HEATER	KIOSK		0.5		120V	PNL 'A'	15A 1P	3/4"C-2ø12AWG		1,2,3
L-BB-3	BASEBOARD HEATER	KIOSK		1.0		120V	PNL 'A'	15A 1P	3/4"C-2ø12AWG		1,2,3
EF-1	EXHAUST FAN	WASHROOM CEILING				120V	PNL 'A'	15A 1P	3/4"C-2ø12AWG		1,2,3
DWH-1	HOT WATER TANK	MECH. CLOSET		1.5		120V	PNL 'A'	20A 1P	3/4"C-2ø12AWG		1,2,3
C-1	CISTERN PUMP	CISTERN TANK				120V	PNL 'A1'	15A 1P	3ø-ø10W6 TECK 90		1,3,4

- NOTES:
- COORDINATE ALL MOTOR SIZES WITH MECHANICAL.
 - C/W INTEGRAL THERMOSTAT
 - ELECTRICAL CONTRACTOR TO PROVIDE A LOCAL DISCONNECT AT ALL MOTORS
 - SUBMERSIBLE PUMP, C/W INTEGRAL CONTROLS.

NIBLOCK MECHANICAL EQUIPMENT SCHEDULE

NO.	NAME	LOCATION	HP	KW	FLA	PHASE VOLTAGE	SOURCE	BREAKER	FEEDER	STARTER	NOTES
L-PTAC-1	AIR CONDITIONING UNIT	LARGE BUILDING				208V	PNL 'A'	30A 3P	3/4"C-3ø10AWG		1,3
S-PTAC-1	AIR CONDITIONING UNIT	SMALL BUILDING				208V	PNL 'A1/A2'	30A 2P	3/4"C-3ø10AWG		1,3
L-BB-1	BASEBOARD HEATER	LARGE UNIT		0.5			PNL 'A'	15A 1P	3/4"C-3ø12AWG		1,3
L-BB-2	BASEBOARD HEATER	LARGE UNIT		0.5			PNL 'A'	15A 1P	3/4"C-3ø12AWG		1,3
L-BB-3	BASEBOARD HEATER	LARGE UNIT		1.0			PNL 'A'	15A 1P	3/4"C-3ø12AWG		1,3
S-BB-1	BASEBOARD HEATER	SMALL UNIT		0.5			PNL 'A1/A2'	15A 1P	3/4"C-3ø12AWG		1,2,3
S-BB-2	BASEBOARD HEATER	SMALL UNIT		0.5			PNL 'A1/A2'	15A 1P	3/4"C-3ø12AWG		1,2,3
EF-1	EXHAUST FAN	WASHROOM				120V	PNL 'A'	15A 1P	3/4"C-3ø12AWG		1,3
DWH-1	BASEBOARD HEATER	LARGE UNIT WASHROOM		1.5			PNL 'A'	20A 1P	3/4"C-3ø12AWG		1,2,3
C-1	CISTERN PUMP	CISTERN TANK				120V	PNL 'A1'	15A 1P	3ø-ø10W6 TECK 90		1,3,6

- NOTES:
- COORDINATE ALL MOTOR SIZES WITH MECHANICAL.
 - C/W INTEGRAL THERMOSTAT
 - ELECTRICAL CONTRACTOR TO PROVIDE A LOCAL DISCONNECT AT ALL MOTORS
 - CONTROLLED BY BUS SYSTEM
 - ALL STARTERS ARE TO BE MAGNETIC, H.O.A. TYPE
 - SUBMERSIBLE PUMP C/W INTEGRAL CONTROLS.



IN FLOOR HEATING LAYOUT

PNL 'A' (MAIN KIOSK)

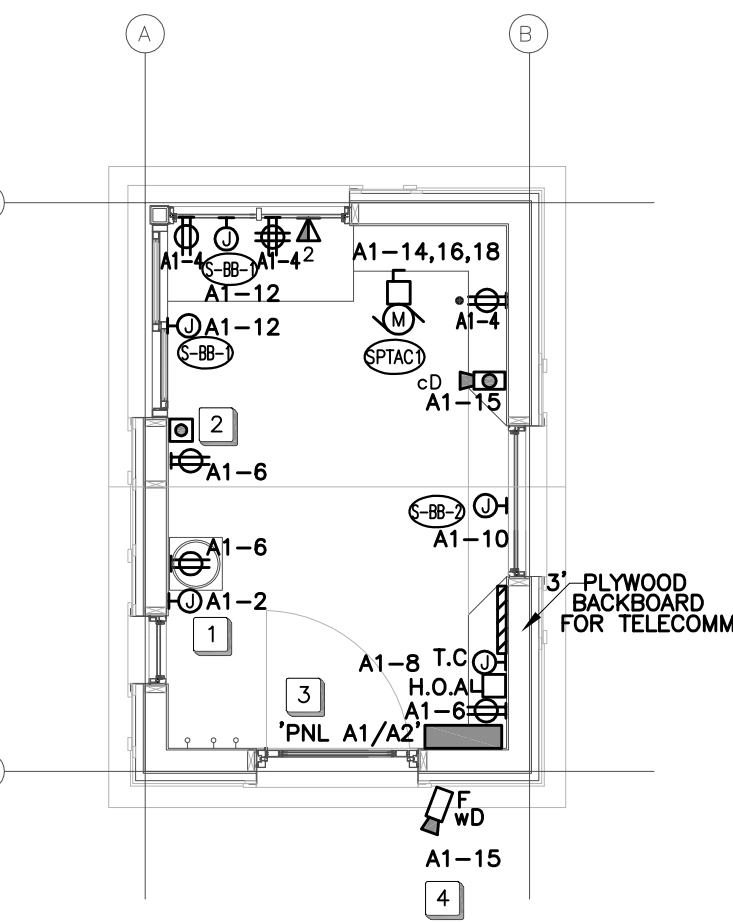
DESCRIPTION	KW	BKR.	CIRCUIT NO.	BKR.	KW	DESCRIPTION
WEST BEACON	0.4	15A	1	2	15A	1.2 IN FLOOR HEAT SOUTH
EAST BEACON	0.4	15A	3	4	15A	1.2 IN FLOOR HEAT N.W
INTERIOR LIGHTING	0.32	15A	5	6	15A	0.8 IN FLOOR HEAT N.E
EXIT LIGHT	0.1	15A	7	8	15A	0.5 L-BB-3
EXTERIOR LIGHTING	0.26	15A	9	10	15A	0.4 EF-1
FRIDGE	0.8	15A	11	12	30A	2.8 L-PTAC-1
COUNTER PLUG	0.4	15A	13	14		2.8
MICROWAVE	0.4	15A	15	16	3P	2.8
COFFEE MAKER	0.4	15A	17	18	15A	0.5 STORAGE L-BB-2
SOUTH RECEPTACLES	0.6	15A	19	20	15A	1.0 N.W L-BB-1
WATER COOLER	0.4	15A	21	22	15A	1.0 N.E L-BB-2
N.W RECEPTACLES	0.8	15A	23	24	20A	1.5 DWH-1
N.E RECEPTACLES	1.2	15A	25	26	15A	
TIMECLOCK/PHOTOCELL H.O.A	0.4	15A	27	28	15A	
SECURITY CAMERA	0.4	15A	29	30	15A	
			31	32	60A	5.46 PANEL A-1
			33	34		5.46
SPARE			35	36	3P	5.46
SPARE			37	38	60A	5.46 PANEL A-2
SPARE			39	40		5.46
SPARE			41	42	3P	5.46
TOTAL	56.56	KW				
DEMAND LOAD (X0.8)	45.25	KW	156 AMPS @ 0.8PF, & 0.8 DIVERSITY 120/208V/3P			
BUS AMPACITY: 200 AMP			VOLTS: 120/208V			
MOUNTING: SURFACE			PHASE: 3ø			
MAIN BKR.: 200A			LOCATION: CORRIDOR			
FEEDER:			FED FROM: UTILITY TRANSFORMER			

PNL 'A1/A2' (GATE BOOTHS)

	DESCRIPTION	KW	BKR.	CIRCUIT NO.	BKR.	KW	DESCRIPTION
	WEST BEACON	0.4	15A	1 → 2	15A	0.826	IN FLOOR HEATING
	EAST BEACON	0.4	15A	3 → 4	15A	0.8	NORTH RECEPTACLES
	EXTERIOR POLE LIGHTS	0.8	15A	5 → 6	15A	1.0	S RECEPTACLES/COOL
*	GANTRY SIGN (A1)	0.8	15A	7 → 8	15A		TIMECLOCK/PHOTOCELL H.O.A
	INTERIOR LIGHTING	0.1	15A	9 → 10	15A	0.5	CENTRAL S-BB-2
	EXIT LIGHT	0.1	15A	11 → 12	15A	1.0	N/W S-BB-1
	EXTERIOR LIGHTING	0.26	15A	13 → 14	30A	2.8	S-PTAC-1
	SECURITY CAMERA	0.4	15A	15 → 16		2.8	
*	CISTERN PUMP (A1)	0.8	15A	17 → 18	3P	2.8	
			15A	19 → 20	15A	0.8	EXTERIOR SITE LIGHTING
			15A	21 → 22	15A		
			15A	23 → 24	15A		
			15A	25 → 26	15A		
			15A	27 → 28	15A		
			15A	29 → 30	15A		
			15A	31 → 32	15A		
			15A	33 → 34	15A		
	SPARE		15A	35 → 36	15A		
	SPARE		15A	37 → 38	15A		
	SPARE		15A	39 → 40	15A		
	SPARE		15A	41 → 42	15A		
	TOTAL	16.39	KW				
	DEMAND LOAD (X0.8)	13	KW				
	BUS AMPACITY: 100 AMP			VOLTS: 120/208V			
	MOUNTING: SURFACE			PHASE: 3ø			
	MAIN BKR.: 60A			LOCATION: CORRIDOR			
	FEEDER:			FED FROM: 'PNL A' - MAIN KIOSK			

TYPICAL OF (2) GATE BOOTH PANELS A1 & A2
* THIS LOAD IS FED FROM NORTH GATE BOOTH ONLY

1 DAVID THOMPSON HIGHWAY KIOSK POWER & SYSTEMS PLAN
EPS-01 1/50



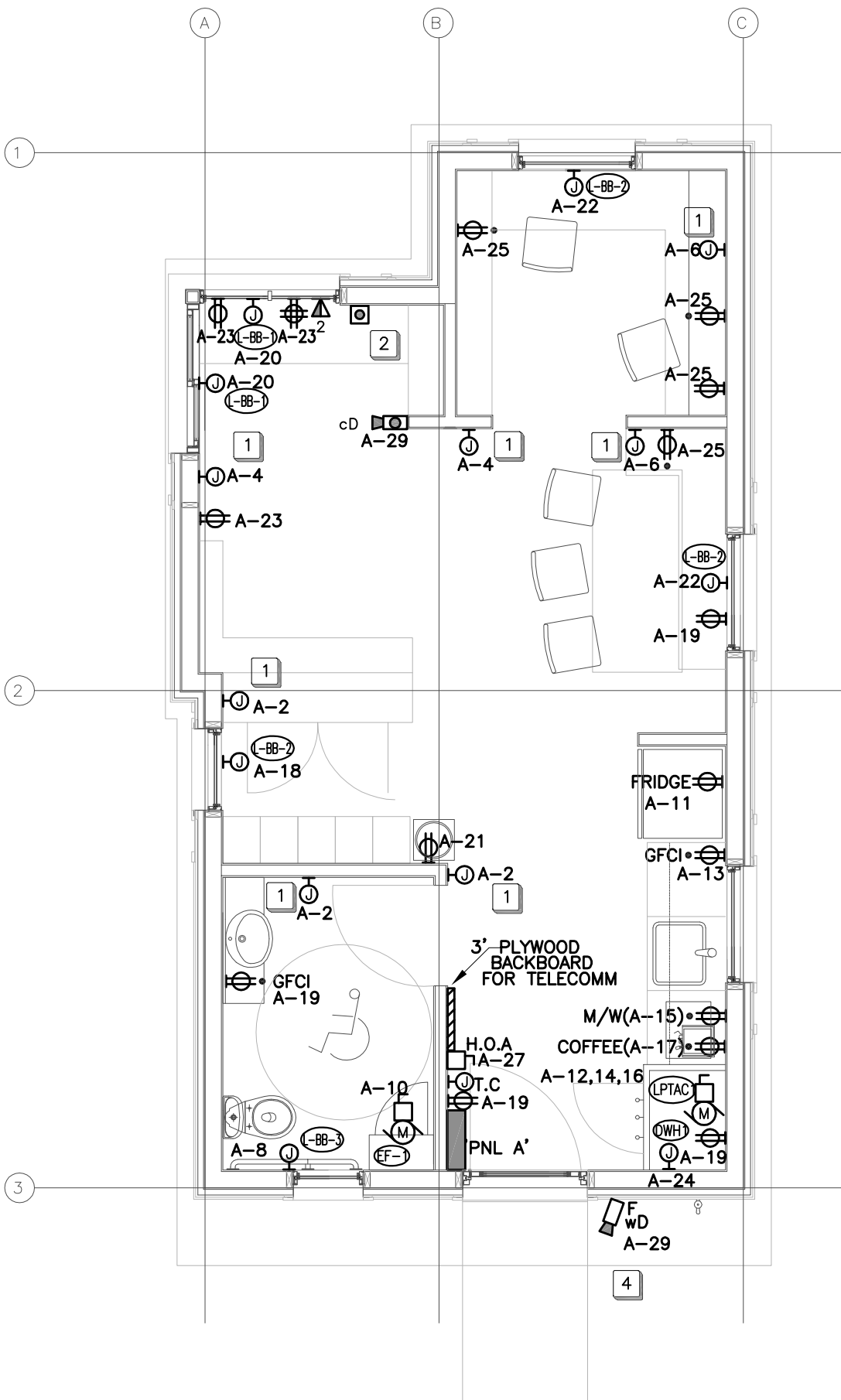
2 NIBLOCK HIGHWAY GATE BOOTH (TYP. OF2) POWER & SYSTEMS PLAN
EPS-01 1/50

KEYNOTES:

- JUNCTION BOX FOR IN FLOOR HEATING POWER CONNECTION. REFER TO DETAIL #3 ON DWG. E-PS-01
- PANIC BUTTON LOCATION.
- TYPICAL SUB-PANEL IN EACH GATE BOOTH IS TO BE SUPPLIED FROM 'PNL-A' AS INDICATED IN PANEL SCHEDULE.
- EXTERIOR WALL MOUNTED SECURITY CAMERA, C/W WEATHERPROOF ENCLOSURE.

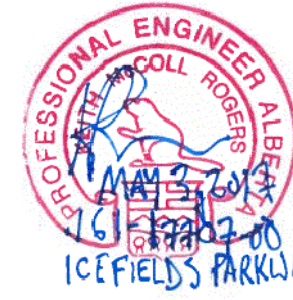
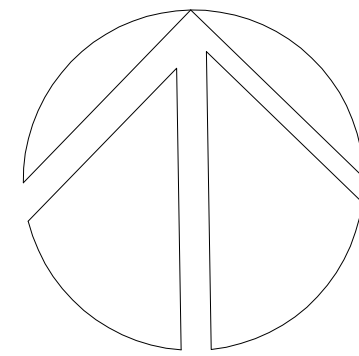
GENERAL NOTES:

- CONFIRM FINAL LOCATION OF ALL MECHANICAL EQUIPMENT PRIOR TO INSTALLATION.



3 NIBLOCK HIGHWAY MAIN KIOSK POWER & SYSTEMS PLAN
EPS-01 1/50

NORTH



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WSP Canada Inc.
PERMIT NUMBER: P07641
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3	2017/03/22	REVISED 90% CLIENT REVIEW	DU	KR
2	2016/12/07	ISSUED FOR 75% REVIEW	DU	KR
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Revision / Revision	
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Dimensions linéaires en millimètres	

Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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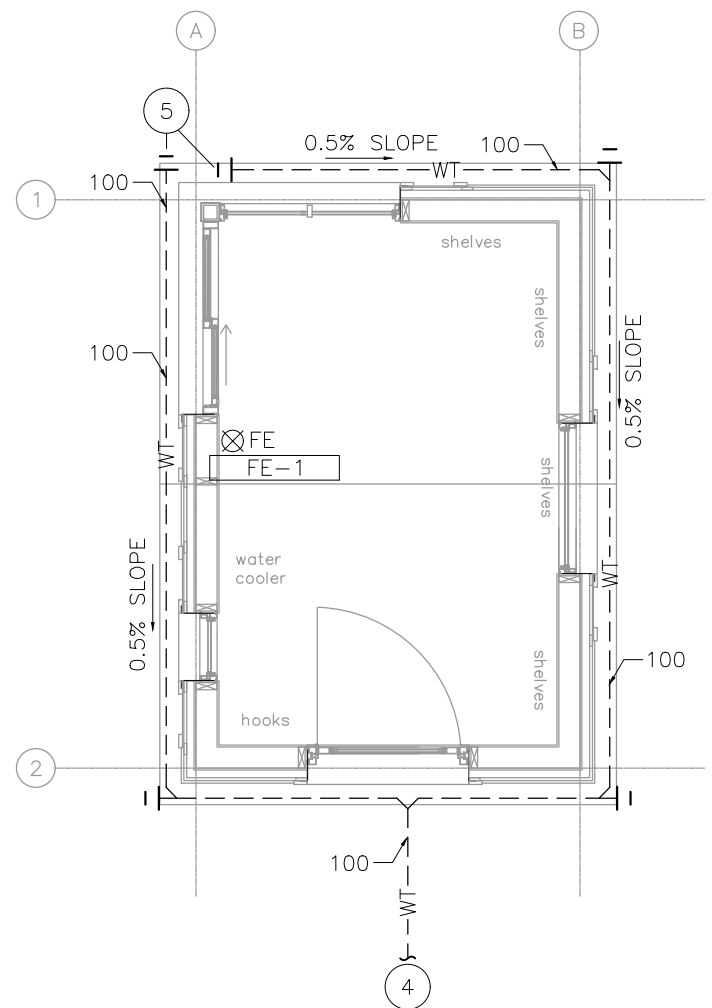
Parks Canada	Parcs Canada
Strategic Asset Management, Western and Northern Region	Gestion Stratégique des Biens, Région de l'Ouest et du Nord

Canada

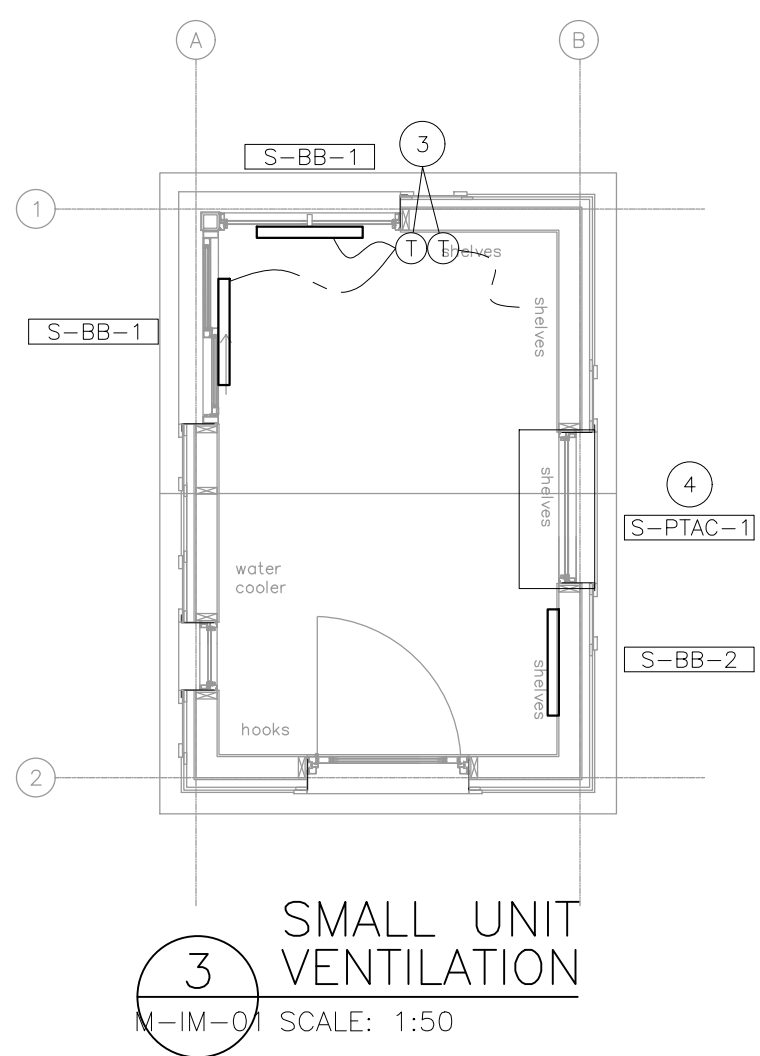
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ICEFIELDS PARKWAY

Drawing Title/Titre du dessin
HIGHWAY KIOSK
POWER & SYSTEMS
PLAN

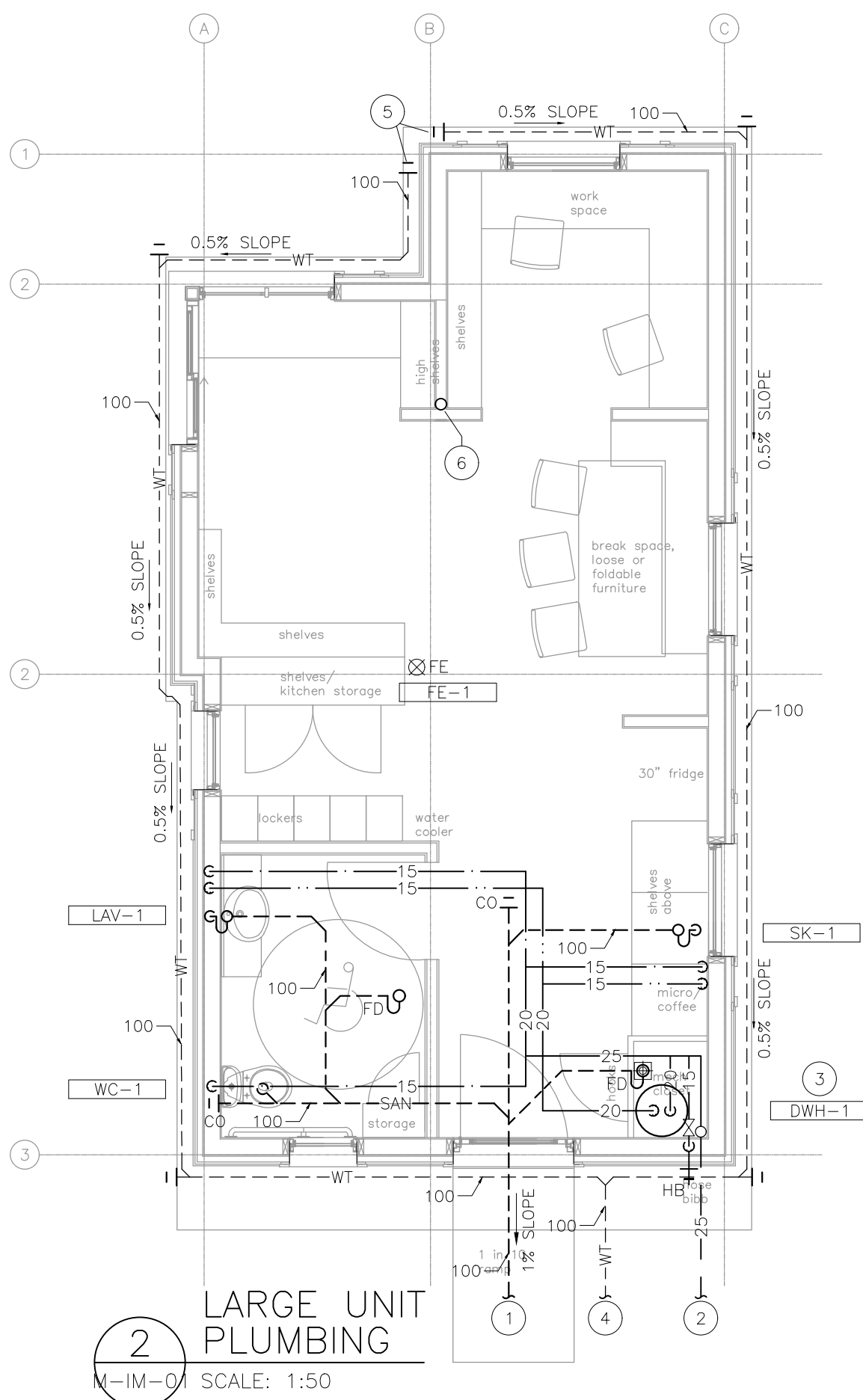
Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
DU	CM	2017/03/22
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
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E-PS-01		04 of 04



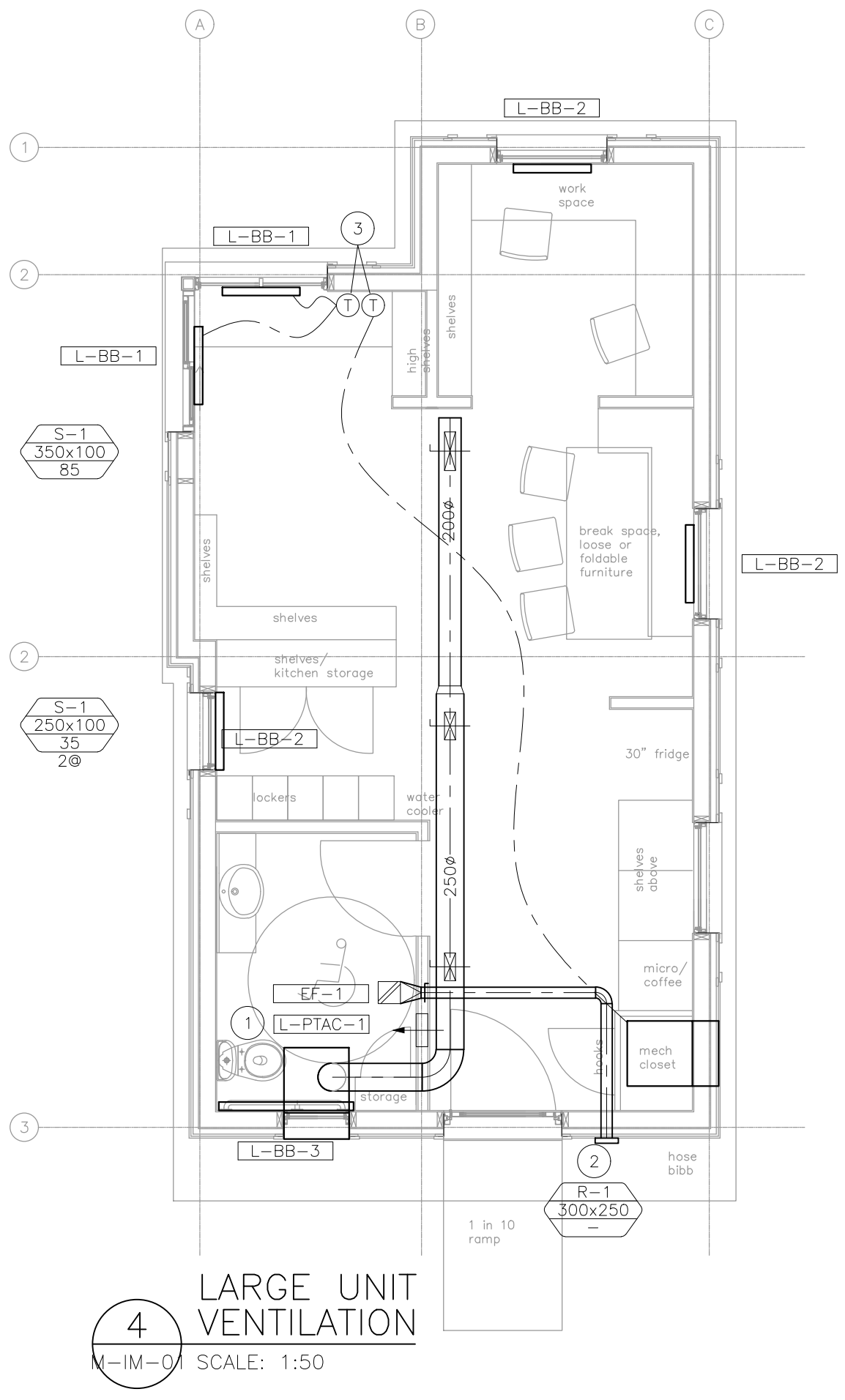
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SCALE: 1:50



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2
M-IM-01
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4
M-IM-01
SCALE: 1:50

GENERAL NOTES:

1. VENT ALL FIXTURES IN ACCORDANCE WITH THE NATIONAL PLUMBING CODE.
2. BELOW GRADE SERVICES TO BE COORDINATED WITH STRUCTURAL FOOTING AND PILE LOCATIONS TO AVOID INTERFERENCE.
3. MAKE CONNECTIONS TO SITE SERVICES APPROXIMATELY 1M FROM BUILDING. COORDINATE WITH STRUCTURAL FOR ADEQUATE FILL REQUIREMENTS.
4. ALL PLUMBING FIXTURES TO HAVE ISOLATION VALVES.
5. INDIVIDUAL FIXTURE PIPS SIZES AS PER PLUMBING FIXTURE SCHEDULE.
6. PIPE CONDENSATE LINES TO THE NEAREST INDIRECT DRAIN.
7. FIRE EXTINGUISHERS SHALL BE PROVIDED AND INSTALLED AS PER NFPA REQUIREMENTS.
8. DASHED LINE INDICATES BELOW GRADE.
9. ALL UNDERSLAB SANITARY PIPE TO BE 100mm UNLESS STATED OTHERWISE.
10. ALL SINKS AND LAVS TO BE LABELLED AS NON-POTABLE.
11. WEEPING TILE TO BE 100# PERFORATED PVC. PROVIDE 100mm FREE DRAINING GRANULAR MATERIAL AROUND PERFORATED PIP. WITH FILTER CLOTH WRAPPED AROUND ASSEMBLY.

KEY NOTES:

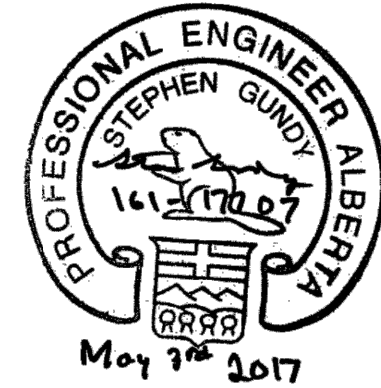
1. LEAVING SANITARY PIPE, REFER TO CIVIL DRAWINGS FOR CONTINUATION. CONTRACTOR TO CHANGE SANITARY PIPE LEAVING ORIENTATION TO SUITE SITE CONDITIONS. LEAVING INVERT TO BE 2.7M BELOW FINISHED FLOOR.
2. INCOMING NON-POTABLE WATER SUPPLY, REFER TO CIVIL DRAWINGS FOR CONTINUATION. CONTRACTOR TO CHANGE INCOMING PIPE ORIENTATION TO SUIT SITE CONDITIONS. INCOMING INVERT TO BE 3.0M BELOW FINISHED FLOOR.
3. COORDINATE DOMESTIC WATER HEATER INSTALLATION WITH PTAC UNIT. DOMESTIC WATER HEATER TO BE INSTALLED AT HIGH LEVEL.
4. WEEPING TILE LAYOUT IS DIAGRAMMATICAL IN NATURE. CONTRACTOR TO CHANGE LAYOUT TO SUIT LOCAL SITE CONDITIONS. REFER TO CIVIL DRAWINGS FOR WEEPING TILE CONNECTION LOCATION.
5. WEEPING TILE STARTING INVERT REFER TO STRUCTURAL DRAWINGS FOR DEPTH.
6. 100mm PVC RADON EXHAUST PIPE. PIPE TO START AT UNDER-SIDE OF SLAB, AND EXTEND ABOVE ROOF, TERMINATED BY A GOOSENECK.

GENERAL NOTES:

1. PIPE CONDENSATE LINES TO THE NEAREST INDIRECT DRAIN.
2. INSTALL DUCT WORK AS HIGH AS POSSIBLE TO UNDERSIDE OF STRUCTURE.

KEY NOTES:

1. PTAC CONDENSATE LINE HAS INDIRECT CONNECTION TO DRAIN. EXTERNAL LOUVER IS APPROX. 500mm WIDE AND 800mm TALL. PTAC TO BE MOUNTED AT HIGH LEVEL ABOVE BATHROOM CEILING LEVEL. ENSURE PTAC UNIT HAS MAINTENANCE ACCESS.
2. MECHANICAL CLOSET DOOR TO BE COMPLETE WITH GRILLE.
3. CONTRACTOR TO CLEARLY LABEL THERMOSTATS. INDICATE THERMOSTAT THAT CONTROLS ELECTRIC BASEBOARD HEATING. INDICATE THERMOSTAT THAT CONTROLS PTAC UNIT.
4. PTAC UNIT CONDENSER WATER TO DRAIN OUT BACK TO GRADE.



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4	2017/05/03	ISSUED FOR TENDER	I.R.	S.G.
3	2017/03/22	REVISED 90% CLIENT REVIEW	I.R.	S.G.
2	2017/02/15	90% DRAWING SUBMISSION CLIENT REVIEW	I.R.	S.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
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Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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	Parks Canada	Parcs Canada
Strategic Asset Management, Western and Northern Region	Gestion Stratégique des Biens, Région de l'Ouest et du Nord	

Canada

Project title/Titre du projet

ICEFIELD PARKWAYS

Drawing title/Titre du dessin

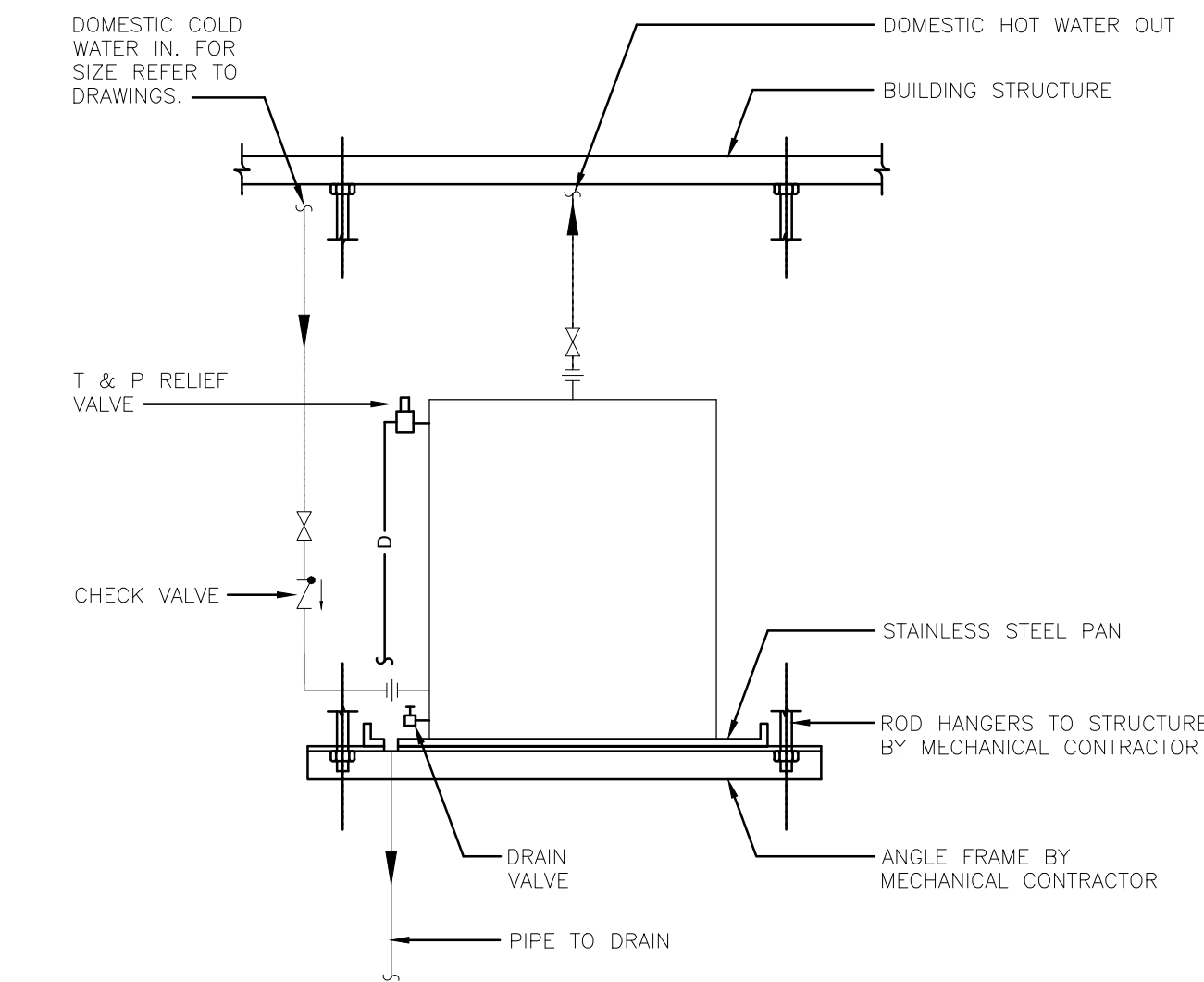
INTERIOR
MECHANICAL PLAN

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
	I.R.	2016-10-28
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
S.G.		
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
FII 907/908		
Drawing Set No./N° de série du dessin		01 of 02
M-IM-01		

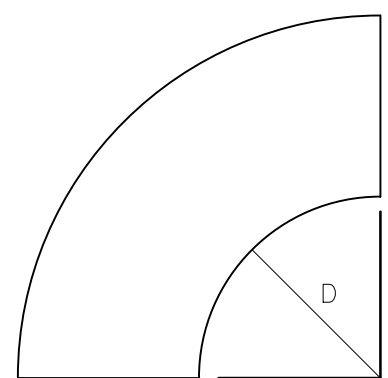
SMALL BOOTH PTAC UNIT SCHEDULE													
TAG No.	LOCATION	MANUFACTURER	MODEL No.	SIZE (TONS)	AIR		COOLING TOTAL CAPACITY (kW)	HEATING		MOTOR		REMARKS	
					T.S.P. (kPa)	OA FLOW (L/s)		INPUT CAPACITY (kW)	OUTPUT CAPACITY (kW)	ELECTRICAL (V/Ph/Hz)	MCA		
S-PTAC-1	SMALL BUILDING	ISLANDAIRE	EZ42071241D45PE	1 1/2	—	122	14.1	2.0	5	5	208/1/60	30	DR. PTAC C/W WALL SLEEVE, EXTERNAL ARCHITECTURAL LOUVER, WIRELESS T'STAT, DRAIN KIT.

SMALL BOOTH ELECTRIC HEATER SCHEDULE								
TAG No.	LOCATION	MANUFACTURER	MODEL No.	INPUT (W)	OUTPUT (W)	VOLTS	PHASE	ACCESSORIES & REMARKS
S-BB-1	—	OUELLET	RBH0502	0.5	0.5	120	1	DESK MOUNTED REMOTE T'STAT
S-BB-2	—	OUELLET	RBH0502	0.5	0.5	120	1	INTEGRAL T'STAT

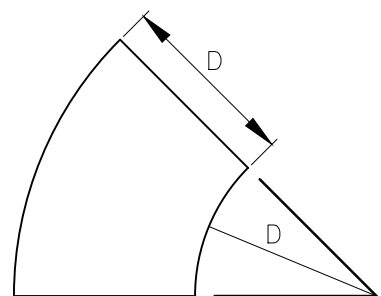
NOTE:
HEATER TO BE CLASS I, GROUPS C & D CLASS II, GROUPS E, F & G DIV 1,2; TEMP CODE T3C (320F)



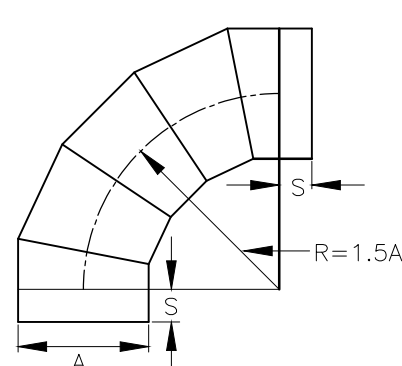
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M-SD-01 SCALE: N.T.S.



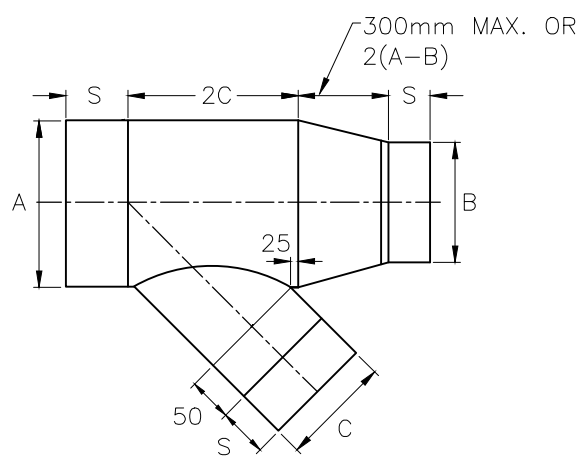
LONG RADIUS 90° ELBOW



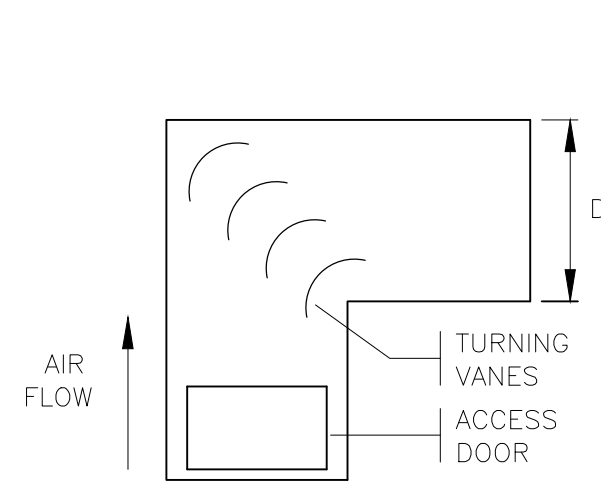
LONG RADIUS 45° ELBOW



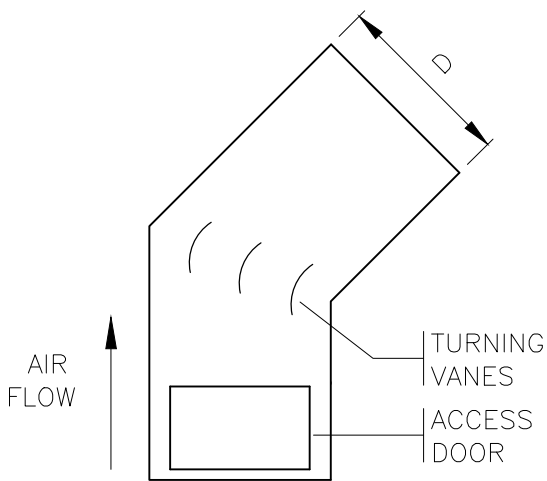
90° LATERAL



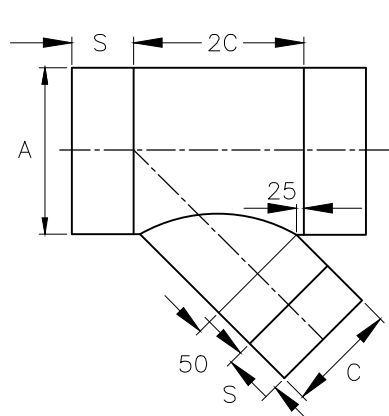
REDUCING LATERAL



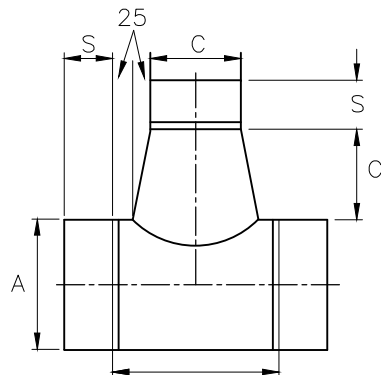
SQUARE TURN 90° ELBOW



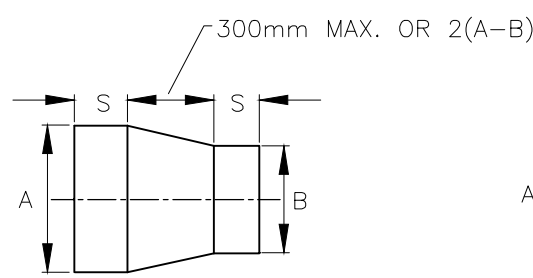
SQUARE TURN 45° ELBOW



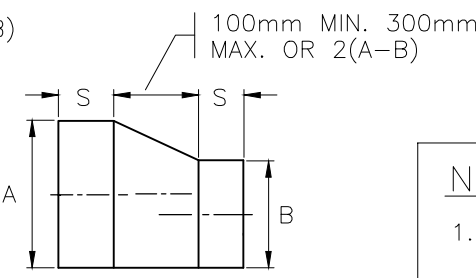
LATERAL



CONICAL TEE



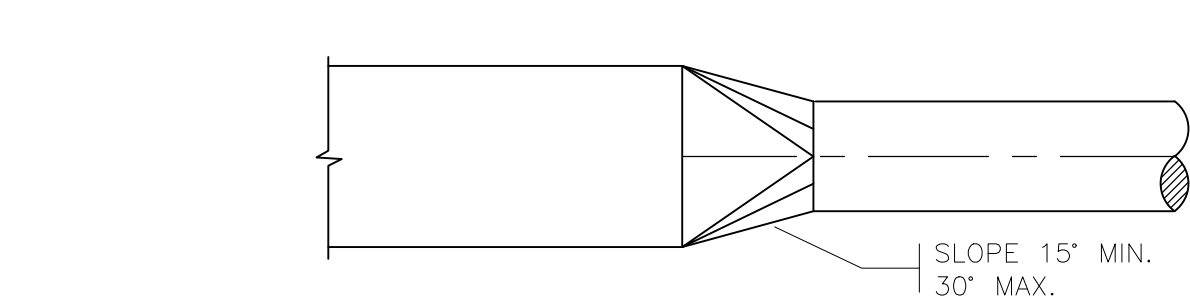
CONCENTRIC



ECCENTRIC

NOTES:
1. PROVIDE BALANCING DAMPER ON ALL TAKE-OFFS TO AIR SUPPLY OUTLETS
2. S=50mm

REDUCERS



TYPICAL ROUND TO SQUARE TRANSITION

2
M-SD-01 SCALE: NTS

3
M-SD-01 SCALE: NTS

LARGE BOOTH PTAC UNIT SCHEDULE													
TAG No.	LOCATION	MANUFACTURER	MODEL No.	SIZE (TONS)	AIR		COOLING TOTAL CAPACITY (kW)	HEATING		MOTOR		REMARKS	
					T.S.P. (kPa)	OA FLOW (L/s)		INPUT CAPACITY (kW)	OUTPUT CAPACITY (kW)	ELECTRICAL (V/Ph/Hz)	MCA		
L-PTAC-1	LARGE BUILDING	ISLANDAIRE	EZVR09A4E1D45PA	1 1/2	62	155	26	2.64	5	5	208/3/60 230/3/60	30	DR. PTAC, PIPE CONDENSATE TO NEAREST DRAIN C/W WALL SLEEVE, EXTERNAL ARCHITECTURAL LOUVER, WIRELESS T'STAT, BASE PLATFORM.

LARGE BOOTH ELECTRIC HEATER SCHEDULE								
TAG No.	LOCATION	MANUFACTURER	MODEL No.	INPUT (W)	OUTPUT (W)	VOLTS	PHASE	ACCESSORIES & REMARKS
L-BB-1	—	OUELLET	RBH0502	0.5	0.5	120	1	DESK MOUNTED REMOTE T'STAT
L-BB-2	—	OUELLET	RBH0502	0.5	0.5	120	1	INTEGRAL T'STAT
L-BB-3	—	OUELLET	RBH1002	1.0	1.0	120	1	INTEGRAL T'STAT

NOTE:
HEATER TO BE CLASS I, GROUPS C & D CLASS II, GROUPS E, F & G DIV 1,2; TEMP CODE T3C (320F)

LARGE BOOTH DOMESTIC WATER HEATER SCHEDULE							
TAG No.	LOCATION	MANUFACTURER	MODEL No.	RECOVERY RATE LITRES/HR (37.7°C RISE)	INPUT (kW)	STORAGE CAPACITY (LITRES)	REMARKS
DWH-1	MECH CLOSET LARGE UNIT	AO SMITH	DEL-10	23	1.5	37	120V/1PH c/w WATTS WSS-A WATER HAMMER ARRESTOR

LARGE BOOTH FAN SCHEDULE												
FAN No.	SERVICE	LOCATION	MANUFACTURER	MODEL No.	AIR FLOW (L/s)	TOTAL STATIC PRESS. (in.wc)	MOTOR (HP)	RPM	ELECTRICAL (V/Ph/Hz)	MCA	MASS (lbs)	REMARKS
EF-1	WASHROOM	CEILING	REVERSOMATIC	EB-55	28	0.15	FRAC.	2,000	120/1/60	1.1	—	CEILING MOUNTED EXHAUST FAN c/w WEATHER PROOF TIGHT WALL BOX REVERSOMATIC SWBW-S, NEOPRENE BOD, BUG SCREEN

LARGE BOOTH GRILLE & DIFFUSER SCHEDULE	
GRILLE TYPE	DESCRIPTION
SUPPLY AIR	
S-1	EH PRICE SDGE/A/B12
RETURN AIR	
R-1	EH PRICE STG1/B/B15
EXHAUST AIR	
—	—

NOTES:
NOTE 1: COLOURS SHALL BE AS SELECTED BY THE ARCHITECT. CONFIRM COLOUR SELECTIONS PRIOR TO ORDERING.
NOTE 2: GRILLES, DIFFUSERS AND REGISTERS SHALL BE PROVIDED TO CONFORM TO ARCHITECTURAL AND STRUCTURAL DETAILING. CONFIRM:
a) STRUCTURAL OPENING SIZES RELATIVE TO GRILLE REQUIREMENTS
b) ARCHITECTURAL CEILING GRID MEASUREMENTS (i.e. HARD METRIC / IMPERIAL)

GENERAL NOTE:
ALL GRILLES, DIFFUSERS AND REGISTERS WHICH ARE DUCT CONNECTED ARE TO BE PROVIDED WITH MANUAL DAMPERS AT CONNECTION DUCTS EXCEPT WHERE MANUAL DAMPERS ARE SPECIFIED INTEGRAL TO GRILLES.

PLUMBING FIXTURE SCHEDULE							
FIXTURE TAG	TYPE	FIXTURE CONNECTIONS (mm)					DESCRIPTION
		DCW	DHW	DTHW	DRAIN	VENT	
LAV-1	BARRIER FREE LAVATORY	15	15	—	40	30	L-1 HANDICAPPED SUITE LAVATORY American Standard Marina 0346 803, china, 4" centres Delta 520 faucet, open grid strainer, 1-1/4" offset trap, ball valve stops, braided flexible supplies, 649SS escutcheons.
SK-1	KITCHEN SINK	15	15	—	40	30	SK-1 DOUBLE SINK Steel Queen QSL2031 (ODL-2), SS sink, Delta 120 faucet, ball valve stops, braided supplies, 649SS escutcheon.
WC-1	BARRIER FREE WATER CLOSET	15	—	—	100	50	WC-1 HANDICAPPED WASHROOM WATER CLOSET American Standard 215AA 154, 2517A 101 Right Height Elongated Bowl, White, Seat #5321 110 EverClean Elongated seat with close snap-off hinges.
HB-1	HOSE BIBB	15	—	—	—	—	HB-1 HOSE BIBB WOODFORD MANUFACTURING Model B65

FIRE EXTINGUISHER SCHEDULE						
TAG No.	LOCATION	CAPACITY (LB)	ULC RATING	CLASSIFICATION	DESCRIPTION	REMARKS
FE-1	SEE DRAWINGS.	10	ABC	1	DRY CHEMICAL	WALL HOOK



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WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional Engineers and Geoscientists of Alberta

4	2017/05/03	ISSUED FOR TENDER	I.R.	S.G.
3	2017/03/22	REVISED 90% CLIENT REVIEW	I.R.	S.G.
2	2017/02/15	90% DRAWING SUBMISSION CLIENT REVIEW	I.R.	S.G.

No.	Date	Description	Drawn by/Dessiné par	Approved/Approuvé
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Revision / Révision	
A	Detail number / Numéro de détail
B	Sheet number / B Numéro de la feuille
Linear dimensions / Dimensions linéaires in millimetres / en millimètres	
Consultant's Name / Nom de l'expert-conseil	Eng. Stamp / Sceau de l'ingénieur
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Canada		

Project title/Titre du projet

ICEFIELD PARKWAYS

Drawing title/Titre du dessin

SCHEDULES
AND DETAILS

Surveyed by/Arpenté par	Drawn by/Dessiné par I.R.	Date 2016-10-28
Designed by/Concept par S.G.	Reviewed by/Revisé par	Scale/Echelle
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet FII 907/908	Asset No./Nº du bien	Sheet No./Nºde la feuille
Drawing Set No./Nº de série du dessin M-SD-01		02 of 02

NOTE:

1. LOCATE AND ABANDON EXISTING WATER AND SANITARY SERVICES
2. ALL LINE WORK IS APPROXIMATE AND FOR REFERENCE PURPOSES ONLY. THE PRECISE LOCATION OF SITE FEATURES MAY VARY ON SITE SLIGHTLY FROM WHAT IS SHOWN IN PLAN.
3. ALL DISTURBED AREAS TO BE REHABILITATED TO THE SATISFACTION OF THE PROJECT MANAGER.

NOTES

LANDSCAPE LEGEND

- EXISTING CONIFER TO REMAIN
- EXISTING NATURALIZED GRASS AREA
- EXISTING GRAVEL AREA TO REMOVE
- DISTURBED AREAS TO BE RE-SEED ON 125MM COMPACTED TOPSOIL TO BE HYDROSEED WITH MULCH AT 20kg/ha. SEE SPECIFICATIONS FOR SEEDBED PREP. MIX AS FOLLOWS:
- 40% TICKLE GRASS
 - 40% FOWL BLUEGRASS
 - 20% AWNED WHEAT GRASS

5	2017/05/03	ISSUE FOR TENDER	JN	RM
4	2017/03/24	90% DRAWING REISSUE CLIENT REVIEW	JN	RM
3	2017/02/15	90% DRAWING SUBMISSION CLIENT REVIEW	JN	RM
2	2016/12/07	75% DRAWING SUBMISSION CLIENT REVIEW	TC	RM
1	2016/10/25	ISSUED FOR REVIEW	TC	RM
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision



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Sheet number

A Numéro de détail
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Consultant's Name
Nom de l'expert-conseil



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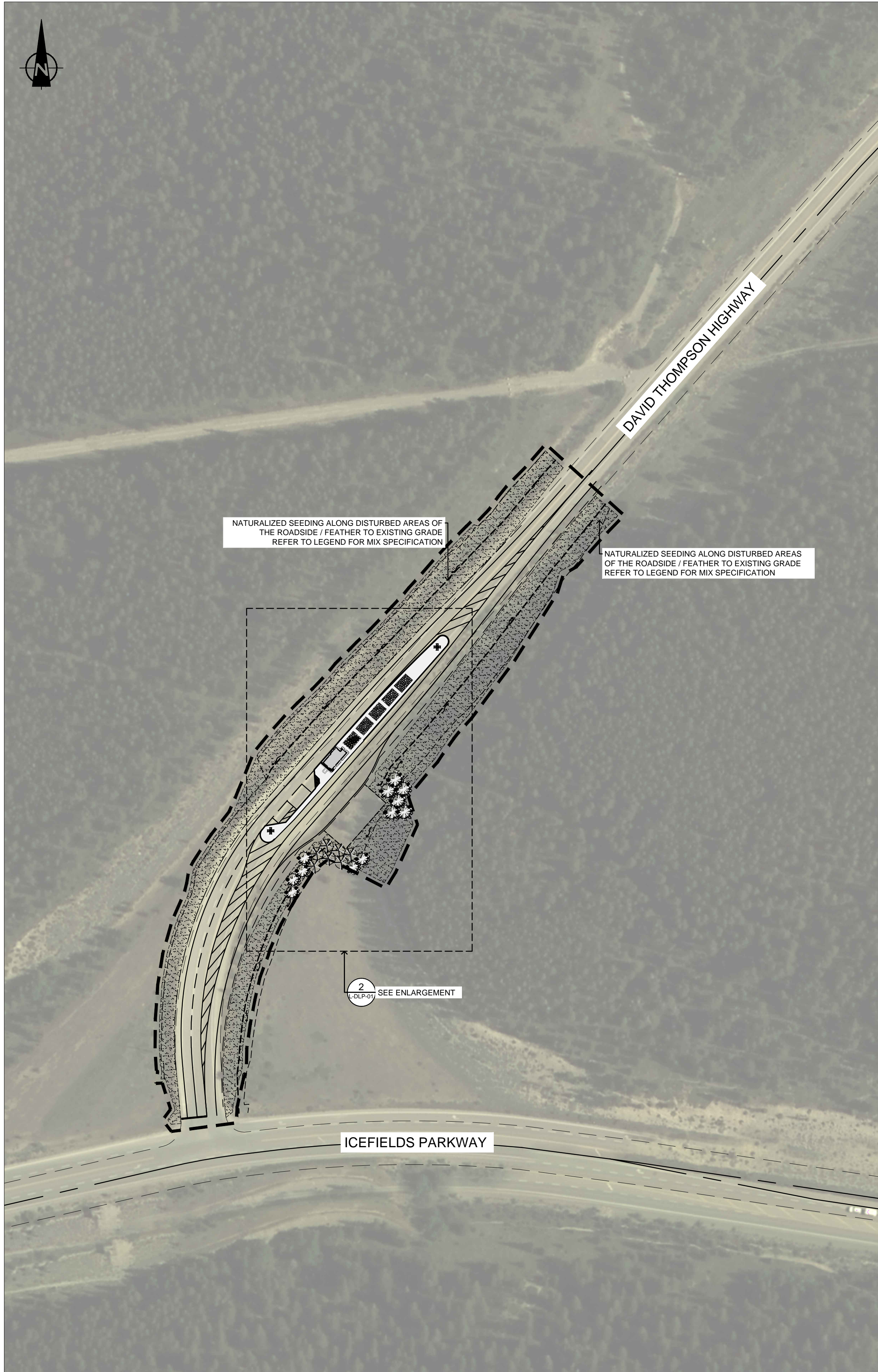
Project title/Titre du projet

ICEFIELDS PARKWAY GATE
DAVID THOMPSON HIGHWAY GATE
BANFF NATIONAL PARK, ALBERTA

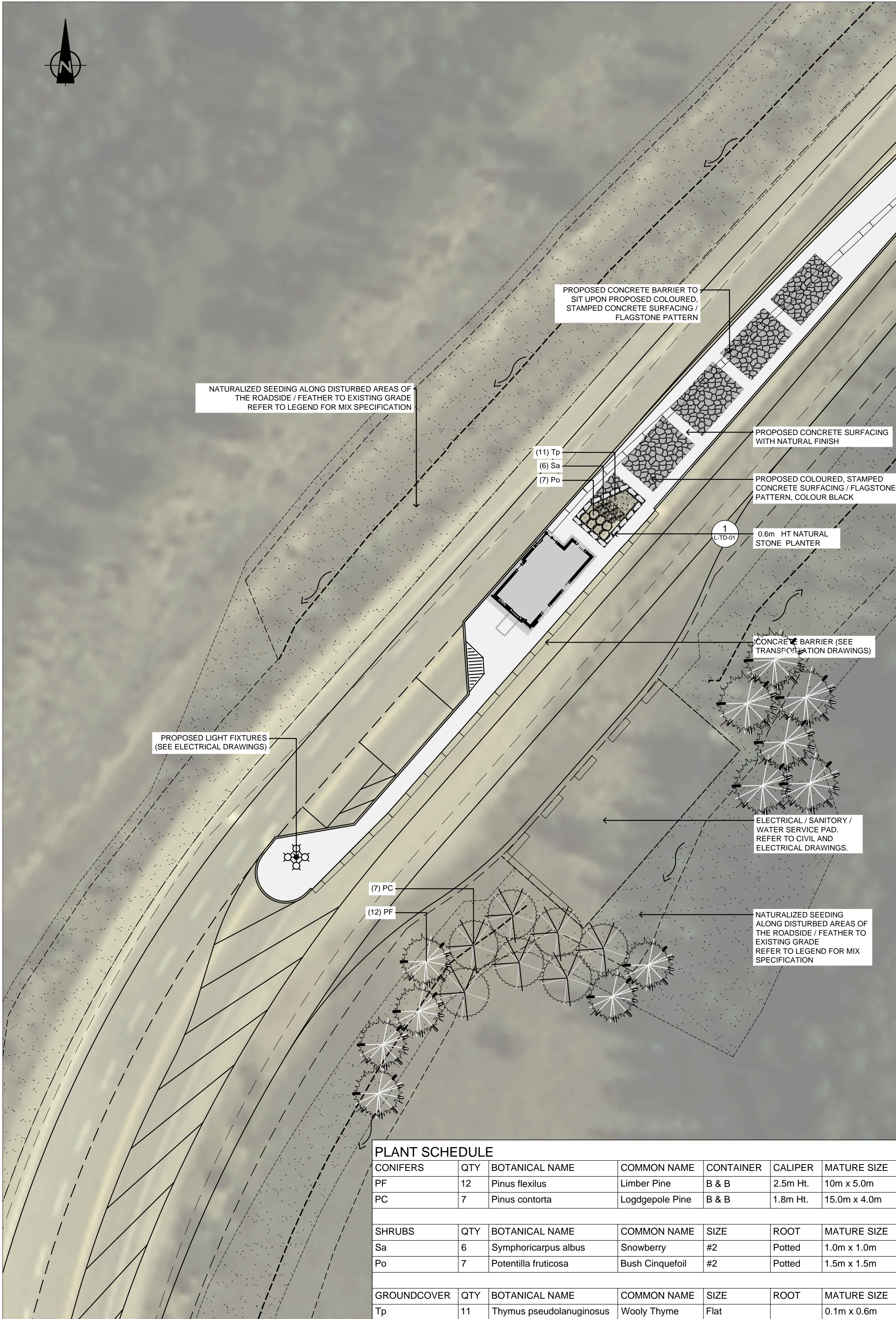
Drawing title/Titre du dessin

DAVID THOMPSON HIGHWAY
EXISTING SITE DEMOLITION
AND REHABILITATION PLAN

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
TC	TC	2017/05/03
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
TC	RM	1:500
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet	Asset No./Nº du bien	Sheet No./Nº de la feuille
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L-DDP-01		



1 SITE PLAN
L-DLP-01
SCALE 1:1000
0 5 10 20 30 40 50m



2 ENLARGEMENT
L-DLP-01
SCALE 1:250
0 1 2 5 10m

NOTES

LANDSCAPE LEGEND

LIMIT OF WORK

PROPOSED LIMBER PINE

PROPOSED LODGEPOLE PINE

PROPOSED CONIFEROUS SHRUBS

PROPOSED DECIDUOUS SHRUBS

PROPOSED PERENNIALS

PROPOSED CONCRETE SURFACING / NATURAL FINISH

DISTURBED AREAS TO BE RE-SEEDING ON 125MM COMPACTED TOPSOIL, TO BE HYDROSEEDING AT 20kg/ha. SEE SPECIFICATIONS FOR SEEDBED PREP. MIX AS FOLLOWS:
40% TICKLE GRASS
40% FOWL BLUEGRASS
20% AWNED WHEAT GRASS

PROPOSED COLOURED STAMPED CONCRETE SURFACING / FLAGSTONE PATTERN, COLOUR BLACK

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1	2016/10/25	ISSUED FOR REVIEW	TC	RM

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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

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Sceau de l'ingénieur

2017/05/03
Robert McDonnell

Strategic Asset
Management,
Western and Northern
Region

Parcs Canada

Gestion Stratégique
des Biens,
Région de l'Ouest et
du Nord

Project title/Titre du projet

ICEFIELDS PARKWAY GATE
DAVID THOMPSON HIGHWAY GATE
BANFF NATIONAL PARK, ALBERTA

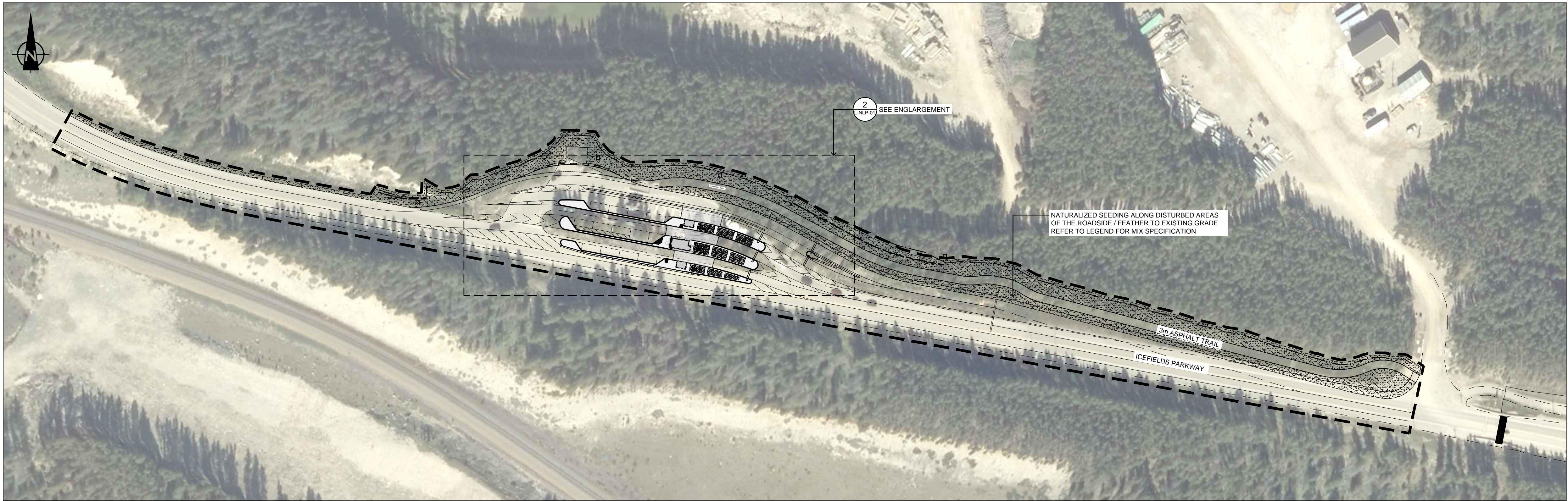
Drawing title/Titre du dessin

LANDSCAPE PLAN
DAVID THOMPSON HIGHWAY

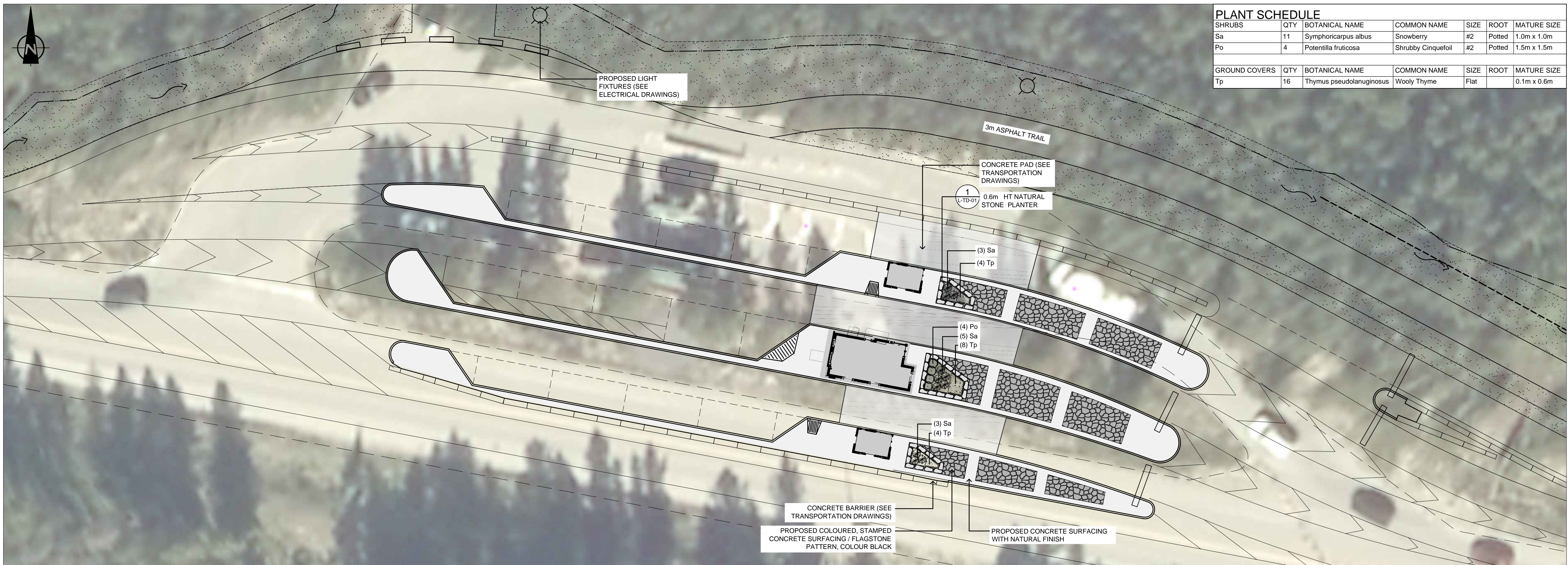
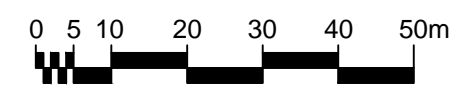
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TC	RM	AS NOTED

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Date		Date	

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FII 907/908		02 of 04
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L-DLP-01		



1 SITE PLAN
SCALE 1:1000



2 ENLARGEMENT
SCALE 1:250



NOTES	
LANDSCAPE LEGEND	
	LIMIT OF WORK
	PROPOSED CONIFEROUS SHRUBS
	PROPOSED DECIDUOUS SHRUBS
	PROPOSED PERENNIALS
	PROPOSED COLOURED STAMPED CONCRETE SURFACING / FLAGSTONE PATTERN, COLOUR BLACK
	PROPOSED CONCRETE SURFACING / NATURAL FINISH
	DISTURBED AREAS TO BE RE-SEEDING ON 125MM COMPACTED TOPSOIL. TO BE HYDROSEEDING AT 20kg/ha. SEE SPECIFICATIONS FOR SEEDING PREP. MIX AS FOLLOWS: 40% TICKLE GRASS 40% FOWL BLUEGRASS 20% AWNED WHEAT GRASS

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Revision / Revision				

A

B

Detail number

Sheet number

A Numéro de détail

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Dimensions linéaires
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Consultant's Name
Nom de l'expert-conseil

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Architects
2017/05/03
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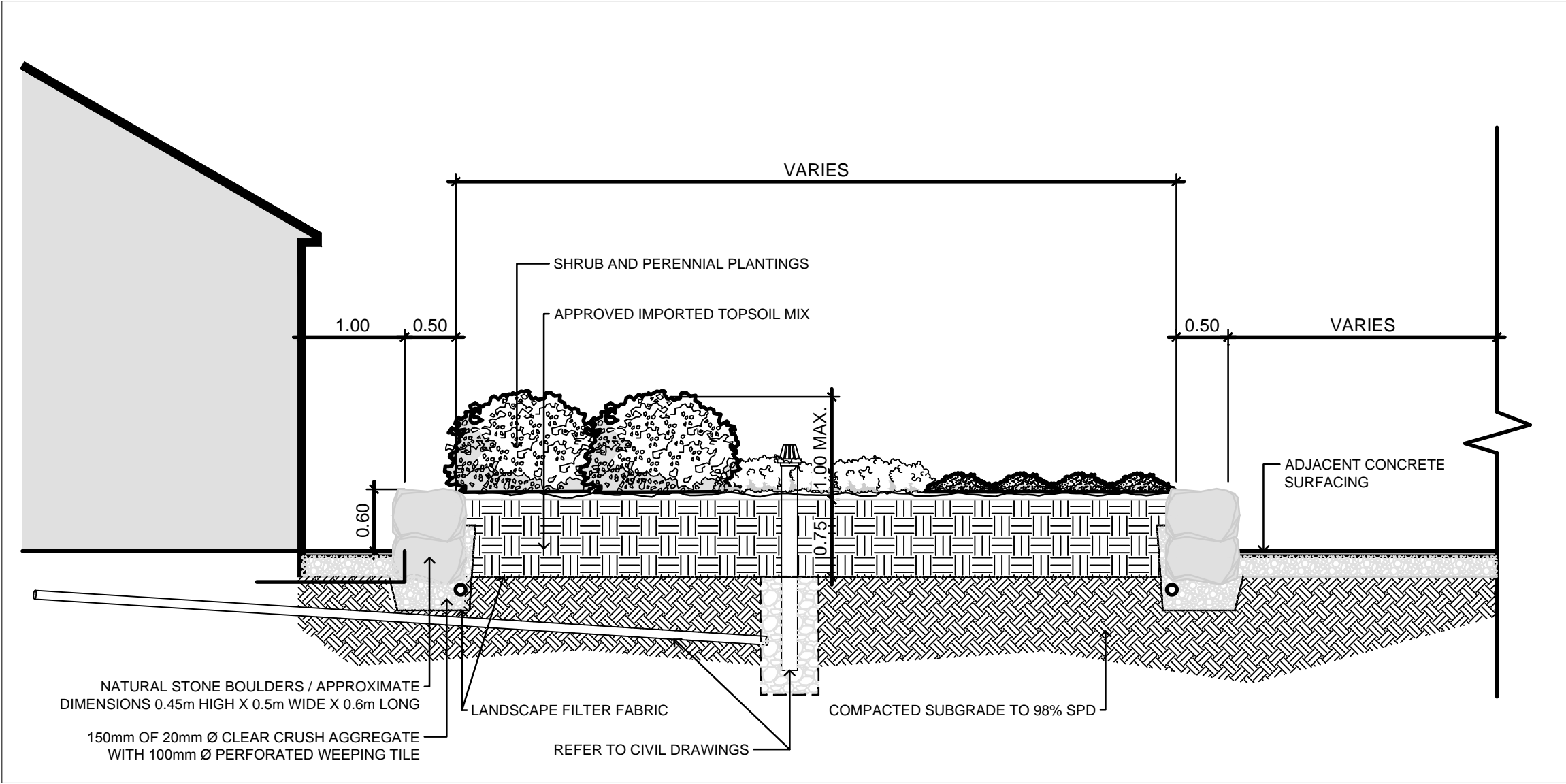
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Project title/Titre du projet	
ICEFIELDS PARKWAY GATE NIBLOCK GATE BANFF NATIONAL PARK, ALBERTA	

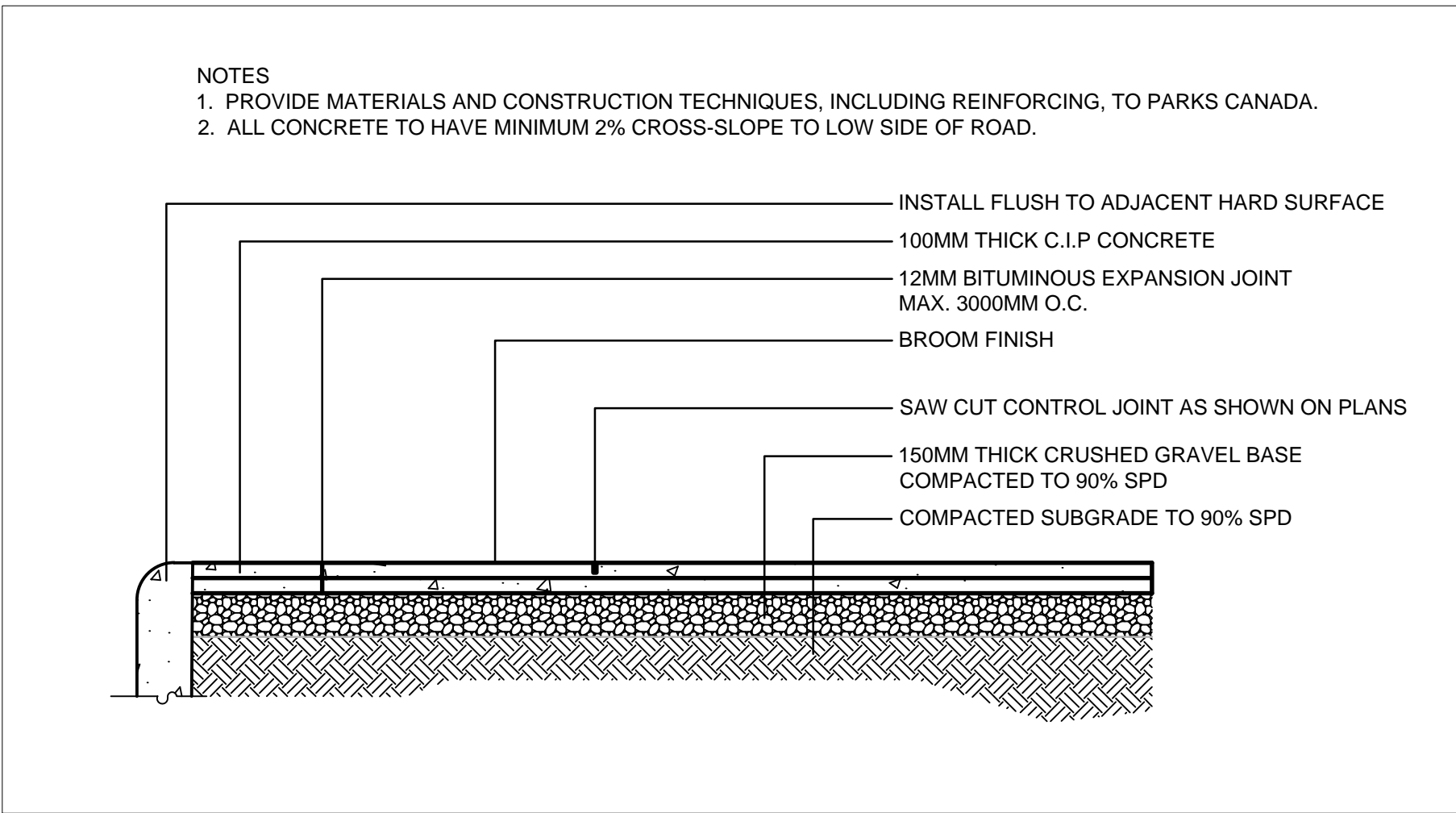
Drawing title/Titre du dessin	
LANDSCAPE PLAN NIBLOCK	

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L-NLP-01		



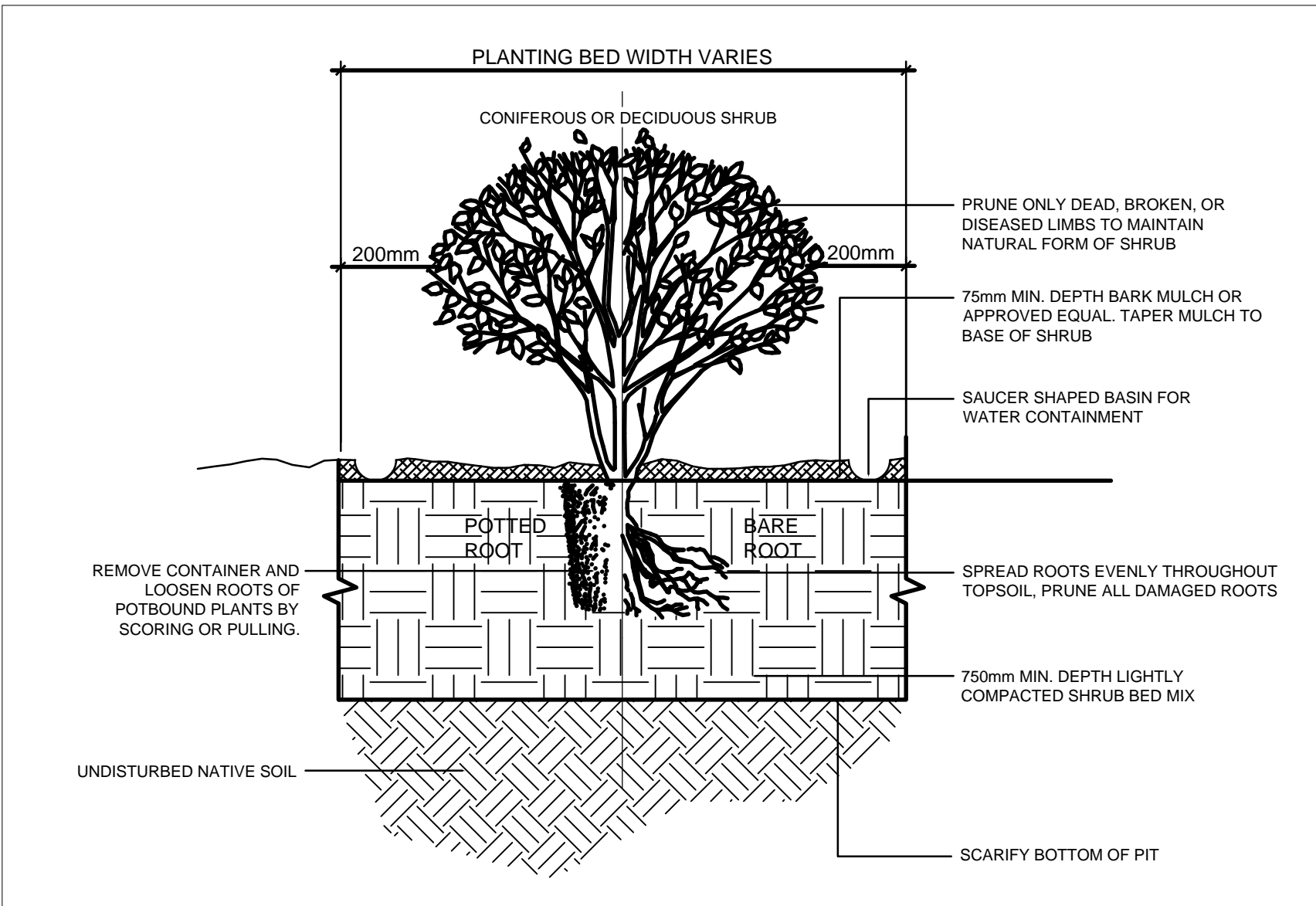
1 TYPICAL SECTION OF NATURAL STONE PLANTER

SCALE 1:50



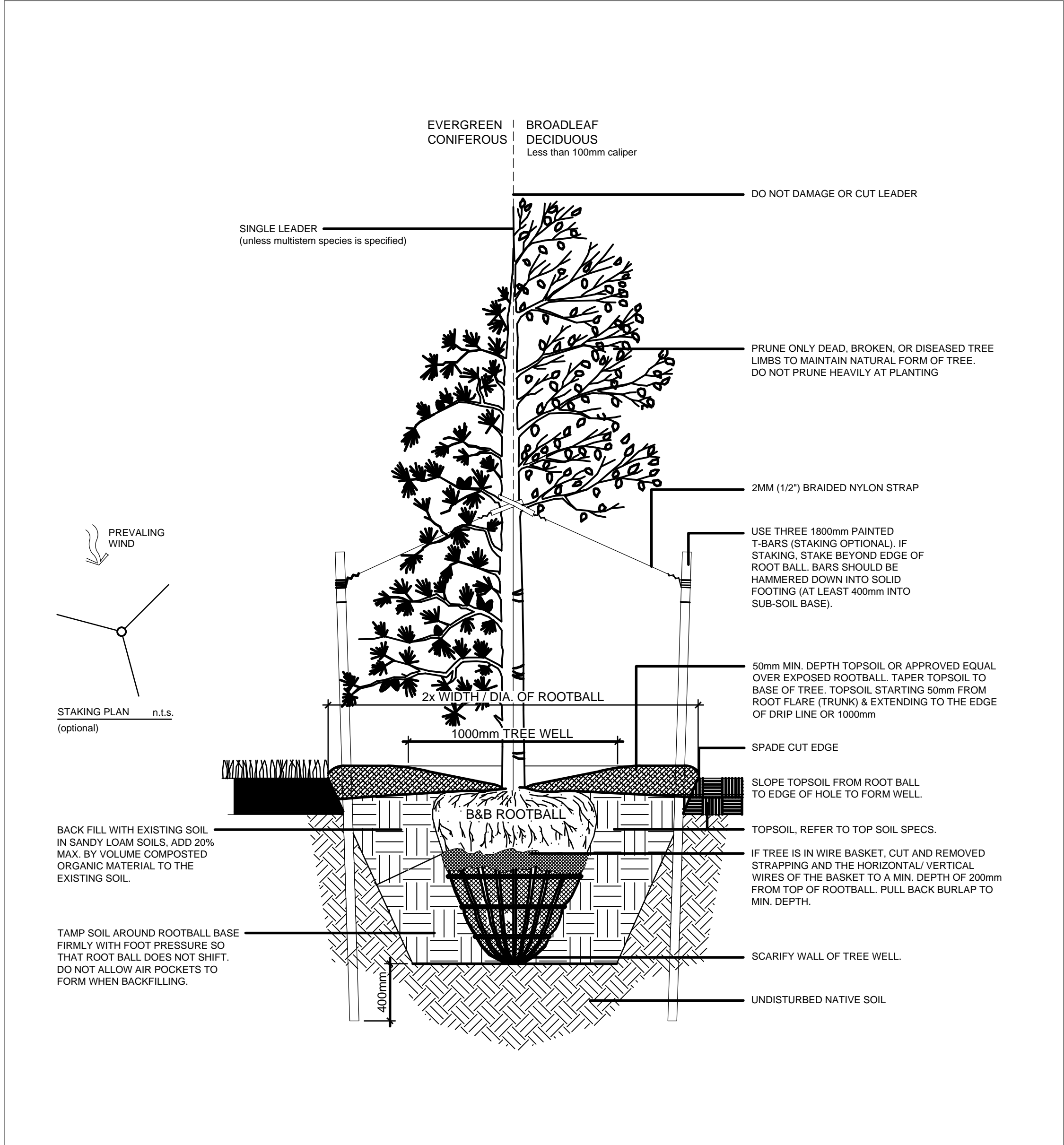
2 CONCRETE SURFACING

SCALE 1:20



3 TYPICAL SHRUB PLANTING

SCALE NTS



4 TYPICAL TREE PLANTING

SCALE NTS

NOTES

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ICEFIELDS PARKWAY GATE

BANFF NATIONAL PARK, ALBERTA

Drawing title/Titre du dessin

LANDSCAPE TYPICAL DETAILS
DAVID THOMPSON HIGHWAY
& NIBLOCK

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
TC	TC	2017/05/03
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