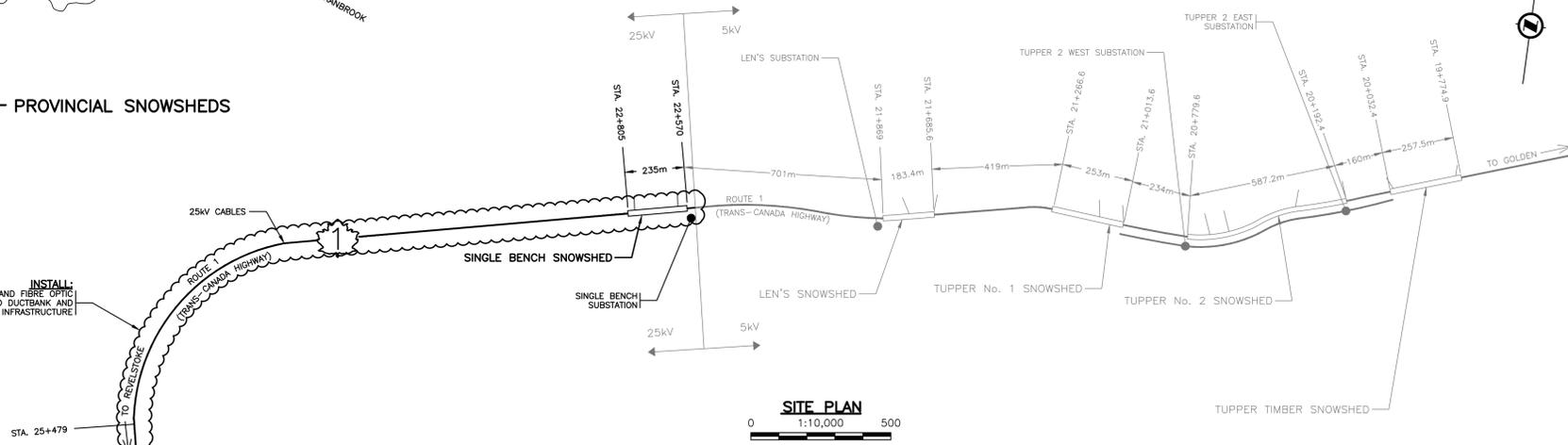
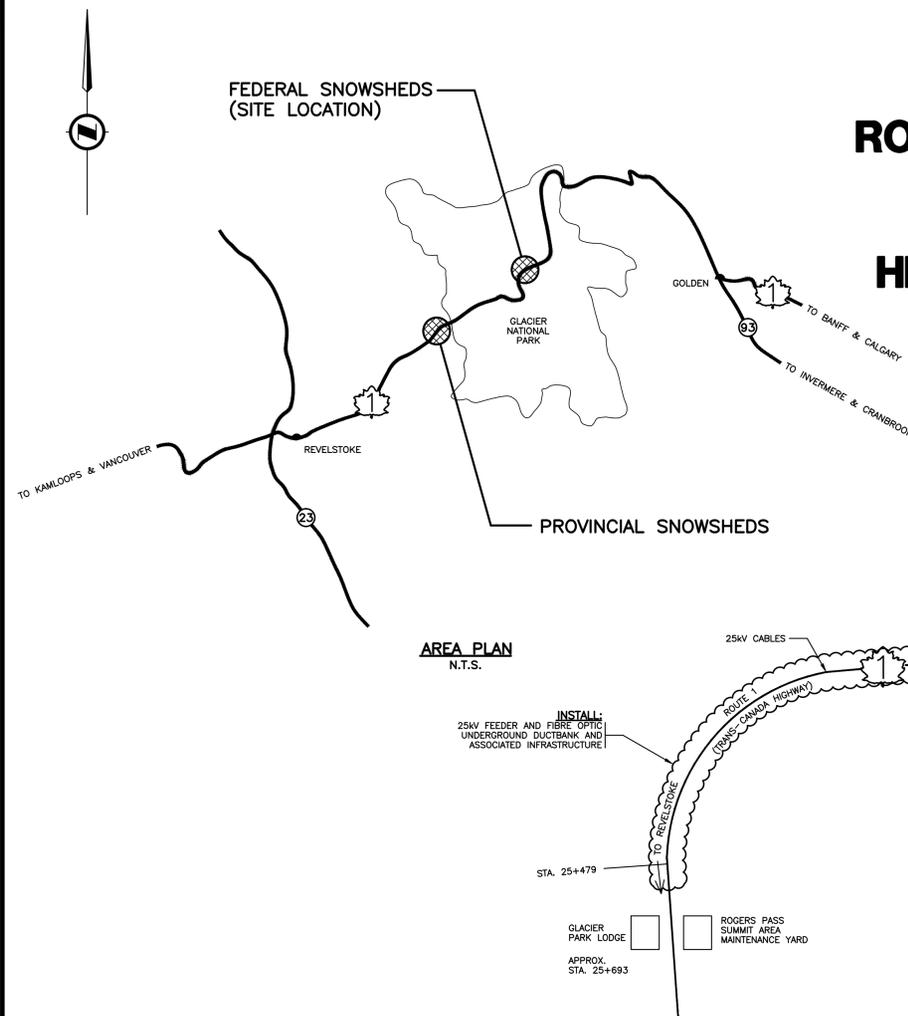




PARKS CANADA  
GLACIER NATIONAL PARK

**ROUTE 1 (TRANS-CANADA HIGHWAY) THROUGH ROGERS PASS  
ROGERS PASS SNOWSHED LIGHTING  
HIGH AND LOW VOLTAGE DISTRIBUTION SYSTEMS - YEAR 2  
25kV FEEDER UPGRADES  
PROJECT No. 201422**



DRAWING INDEX		
DRAWING No.	REV.	DESCRIPTION
1	-	COVER SHEET, INDEX & SITE PLAN
2	-	SYMBOLS, LEGEND & ABBREVIATIONS
3	-	GENERAL NOTES
4	-	DETAILS - EXISTING POWER DISTRIBUTION SYSTEM
10	-	PLAN - STA. 26+025 TO STA. 24+611
11	-	PLAN - STA. 24+611 TO STA. 23+024
12	-	PLAN - STA. 23+024 TO STA. 21+600
13	-	PLAN - STA. 21+600 TO STA. 20+094
14	-	PLAN - STA. 20+094 TO STA. 19+406
15	-	SECTIONS - TYPICAL TRENCH
16	-	SINGLE LINE DIAGRAM - EXISTING SYSTEM - HIGH VOLTAGE
17	-	SINGLE LINE DIAGRAM - PROPOSED SYSTEM - HIGH VOLTAGE
18	-	BLOCK DIAGRAM - LIGHTING CONTROL SYSTEM
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20	-	SWITCHEAR LAYOUT - MAINTENANCE YARD
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31	-	SWITCHEAR GROUNDING - SINGLE BENCH
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40	-	SWITCHEAR LAYOUT - LEN'S
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46	-	SINGLE LINE DIAGRAM - LOW VOLTAGE - LEN'S
50	-	SWITCHEAR LAYOUT - TUPPER 2 WEST
51	-	SWITCHEAR GROUNDING - TUPPER 2 WEST
52	-	UNDERGROUND LAYOUT - TUPPER 2 WEST
53	-	ABOVE GROUND LAYOUT - TUPPER 2 WEST
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61	-	SWITCHEAR GROUNDING - TUPPER 2 EAST
62	-	UNDERGROUND LAYOUT - TUPPER 2 EAST
63	-	ABOVE GROUND LAYOUT - TUPPER 2 EAST
66	-	SINGLE LINE DIAGRAM - LOW VOLTAGE - TUPPER 2 EAST

DENOTES WORK ADDED AS PART OF THIS CONTRACT

DRAWINGS NOT INCLUDED IN THE CURRENT PACKAGE

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Project title / Titre du projet  
**ROGERS PASS SNOWSHED LIGHTING**  
**TRANS CANADA HIGHWAY THROUGH ROGERS PASS**  
**GLACIER NATIONAL PARK**

Drawing title / Titre du dessin  
**HIGH AND LOW VOLTAGE DISTRIBUTION SYSTEMS**  
**COVER SHEET, INDEX & SITE PLAN**

Surveyed by / Arpenté par	Drawn by / Dessiné par	Date
	PBX	2014-01-17
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201422		1
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4/13/2015 12:34 PM MICHAEL MALAMUD  
 Design: Drawings: MCA/Primary: Powerline: Construction: 25kV FEEDER UPGRADES: 1 - 20/03/2015 12:34 PM MICHAEL MALAMUD

EQUIPMENT LEGEND	
SYMBOL	DESCRIPTION
	25KV DISCONNECT SWITCH
	25KV LOAD BREAK SWITCH
	25KV, 1200A DRAW OUT VACUUM CIRCUIT BREAKER
	FUSE
	AC SURGE ARRESTER
	REMOVABLE LINKS
	UNDERVOLTAGE RELAY
	THERMAL RELAY
	INTERLOCK KEY No. "X"
	INSTANTANEOUS & TIME PHASE OVERCURRENT RELAY
	TRANSFORMER
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	VOLTMETER SWITCH
	AMMETER SWITCH
	PUSH BUTTON
	CIRCUIT BREAKER
	CHANCE SAFETY GROUND BALL STUDS (ONE PER PHASE)
	CONTACT
	CONDUIT STUB
	GROUND ELECTRODE/ROD
	GROUNDING SYSTEM EXTENSION TAIL
	PHOTOELECTRIC CELL
	WIRELESS SYSTEM ANTENNA
	SECURITY DOOR SWITCH

EQUIPMENT LEGEND	
SYMBOL	DESCRIPTION
	STROBE
	HORN
	SMOKE DETECTOR WITH AUXILIARY CONTACTS MAPPED TO THE SECURITY ALARM
	EXIT SIGN
	KEYPAD - SECURITY ALARM
	SECURITY ALARM - DSC INSTALLED BY AUTHORIZED CONTRACTOR
	UNIT HEATER No. "X"
	EMERGENCY LIGHTING UNIT WALL PACK
	EXIT SIGN EMERGENCY LIGHTING COMBINATION WALL PACK
	DOUBLE REMOTE HEAD FOR EMERGENCY LIGHTING
	UNIT HEATER
	LED WALLPACK
	GROUNDING
	CONTACTOR/RELAY COIL
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
	FLUORESCENT FIXTURE - 48", 2 TUBES, T5HO
	CT SHORTING SWITCH OR TEST BLOCK
	TERMINAL BLOCK "X"
	BC HYDRO METER
	DUAL ZONE THERMOSTAT
	CCTV CAMERA
	FOB SENSOR (TUNNEL LIGHTING)
	3 WAY SWITCH (LIGHTING)
	KEY SWITCH (TUNNEL LIGHTING)
	EXISTING U/G INFRASTRUCTURE LAYOUT
	PROPOSED TRENCH CROSS-SECTION

LEGEND - ELECTRICAL OUTLETS	
SYMBOL	DESCRIPTION
	WALL MOUNTED DUPLEX RECEPTACLE
	WALL MOUNTED 4-PLEX RECEPTACLE
	WALL MOUNTED RECEPTACLE-GROUND FAULT INTERRUPTER
	WALL MOUNTED 4 COAX OUTLET BOX
	WALL MOUNTED DATA OUTLET
	WALL MOUNTED VOICE OUTLET
	WALL MOUNTED QUAD DATA/VOICE OUTLET
	SINGLE GANG LIGHT SWITCH
	TWO GANG LIGHT SWITCH

LINE TYPE LEGEND	
LINE	DESCRIPTION
	120V CONDUIT / CABLE
	COMMUNICATIONS CONDUIT / CABLE
	600V CONDUIT / CABLE
	TECK CABLE
	25KV CABLE RATED
	CAPPED CONDUIT
	SANITARY
	STORM
	TELEPHONE
	ELECTRICAL
	WATER
	GAS
	PERIMETER FENCE
	PROTECTION CONTROL INTERLOCK COORDINATION
	GROUNDING

**ABBREVIATIONS:**

AL	ALUMINUM
APPROX	APPROXIMATE
BCH	BC HYDRO
C	COIL
CC	CONTROL CABINET
CAP	CAPACITOR
CB	CIRCUIT BREAKER
CEC	CANADIAN ELECTRICAL CODE, PART 1, LATEST EDITION
CCT	CIRCUIT
CF	CUTOUT FUSE
CFL	COMPACT FLUORESCENT LAMP
COMM	COMMUNICATIONS
CT	CURRENT TRANSFORMER
CTRL	CONTROL
DS	DISCONNECT SWITCH
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
F	FUSE
FLU	FLUORESCENT (LIGHT FIXTURE)
FMC	FLEXIBLE METAL CONDUIT
F.O.	FIBRE OPTIC
FPP	FIBRE PATCH PANEL
FEEDER	FEEDER
FR	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUNDING
H	HOT/ENERGIZED
HDPE	HIGH DENSITY POLYETHYLENE
HOA	HAND-OFF-AUTO CONTROL
HO	HIGH OUTPUT
H.V.	HIGH VOLTAGE
JB	JUNCTION BOX
KX	INTERLOCK KEY "X"
LB	LOAD BREAKER SWITCH
LTF	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LTG	LIGHT/LIGHTING
MGB	MASTER GROUND BAR
N	NEUTRAL
O/H	OVERHEAD
P	POLE
PH, #	PHASE (S)
PP	PULL PIT
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE CONDUIT
PWR	POWER
R	RELAY
RAC	RIGID ALUMINUM CONDUIT
REC	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RPVC	RIGID POLYVINYL CHLORIDE CONDUIT
SA	SECURITY ALARM
SF	SUPPLY FAN
SM	SINGLE MODE
SS	STATION SERVICE
T	TRANSFORMER
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TBD	TO BE DETERMINED
U/G	UNDERGROUND
UH	UNIT HEATER
URD	UNDERGROUND RESIDENTIAL DISTRIBUTION
VCB	VACUUM CIRCUIT BREAKER
XFMR	TRANSFORMER

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				

	Detail number A Numéro de détail		Sheet number B Numéro de la feuille
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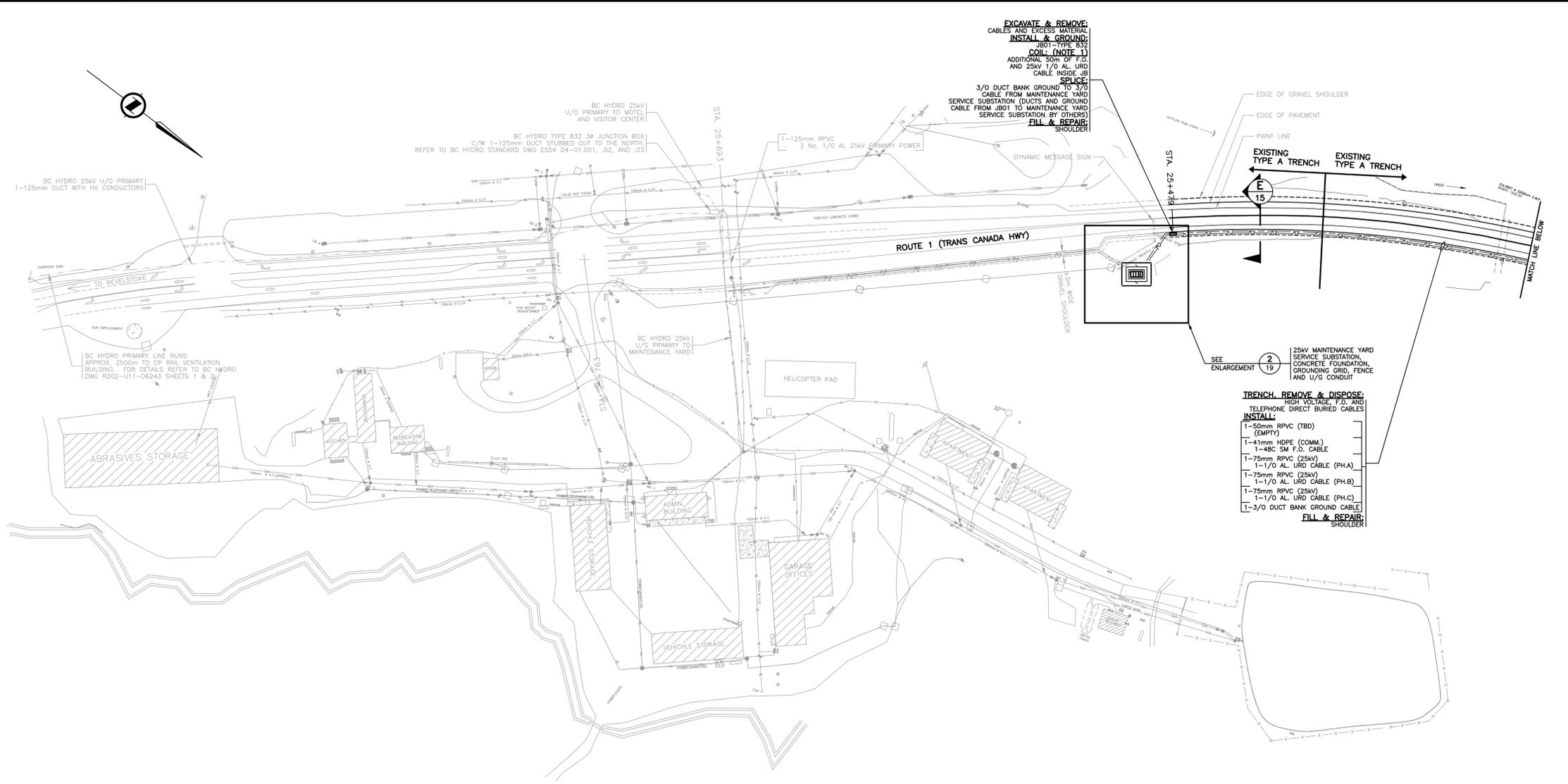
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**ROGERS PASS SNOWSHED LIGHTING**  
**TRANS CANADA HIGHWAY THROUGH ROGERS PASS**  
**GLACIER NATIONAL PARK**

Drawing title/Titre du dessin  
**HIGH AND LOW VOLTAGE DISTRIBUTION SYSTEMS**  
**SYMBOLS, LEGEND & ABBREVIATIONS**

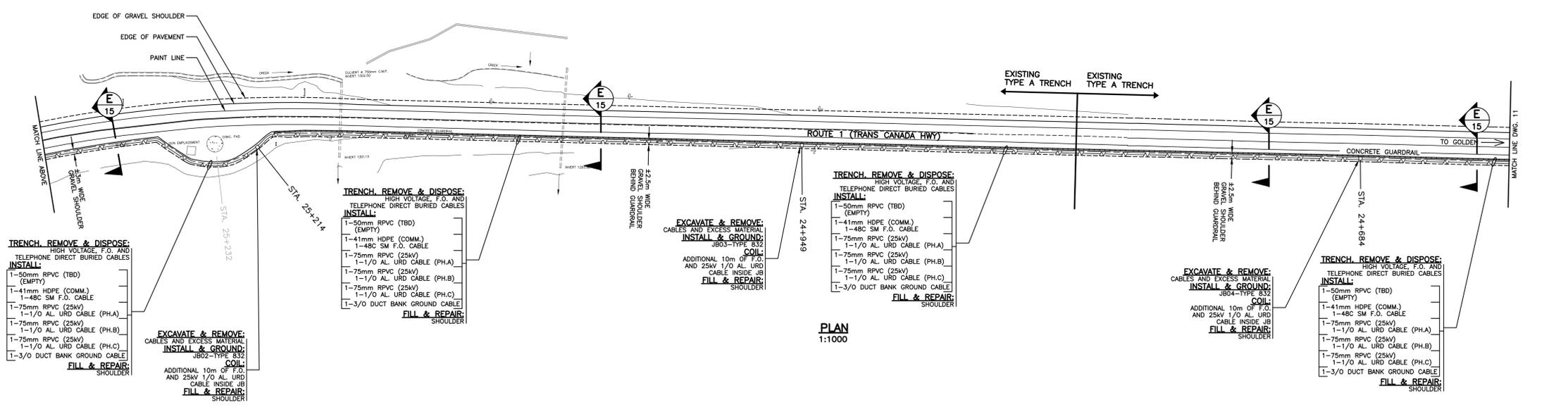
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**SITE PLAN 1 MAINTENANCE YARD AREA**  
1:1000



**PLAN**  
1:1000

**NOTES:**  
1. THE EXCESS OF CABLES INSIDE JBO1 WILL BE PULLED THROUGH U/G DUCTS TO THE MAINTENANCE YARD SERVICE SUBSTATION BY OTHERS. INSTALL F.O. PATCH PANEL, TERMINATE AND TEST F.O. CABLE BETWEEN MAINTENANCE YARD SERVICE SUBSTATION AND SINGLE BENCH SUBSTATION.

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TRANS CANADA HIGHWAY THROUGH ROGERS PASS  
GLACIER NATIONAL PARK

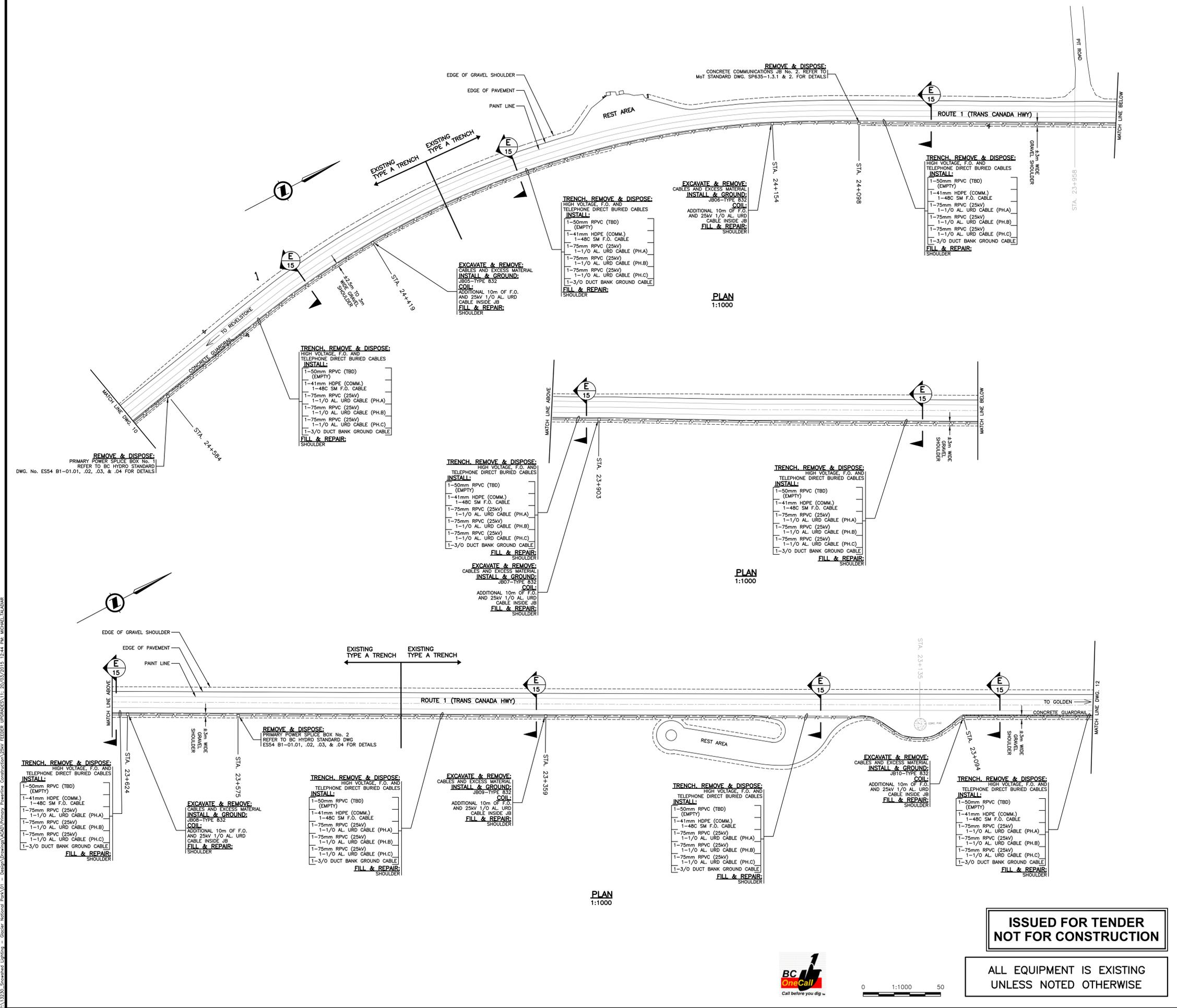
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HIGH AND LOW VOLTAGE DISTRIBUTION SYSTEMS  
PLAN  
STA. 26+025 TO STA. 24+611

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48133200 - Snowshed Lighting - Glacier National Park/01 - Design/Drawings/PCA/Primary Services/Construction/25kV Feeder (UPGRADES) 01 - 20/03/2015 12:41 PM MICHAEL MALAR






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TRANS CANADA HIGHWAY THROUGH ROGERS PASS  
GLACIER NATIONAL PARK

Drawing Title/Titre du dessin  
HIGH AND LOW VOLTAGE DISTRIBUTION SYSTEMS

PLAN  
STA. 24+611 TO STA. 23+024

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2014-01-17

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Date

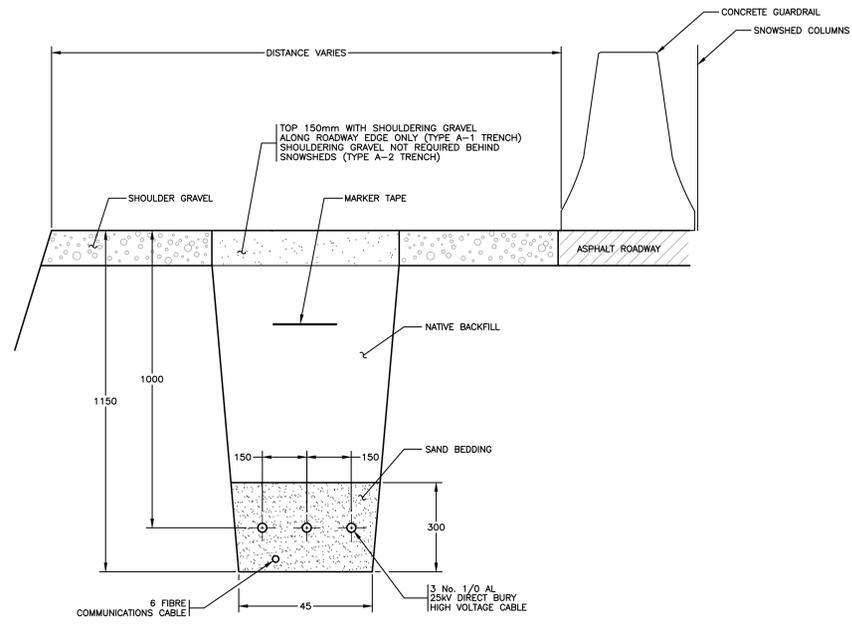
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Drawing Reference No./No de référence du dessin  
G2002R1

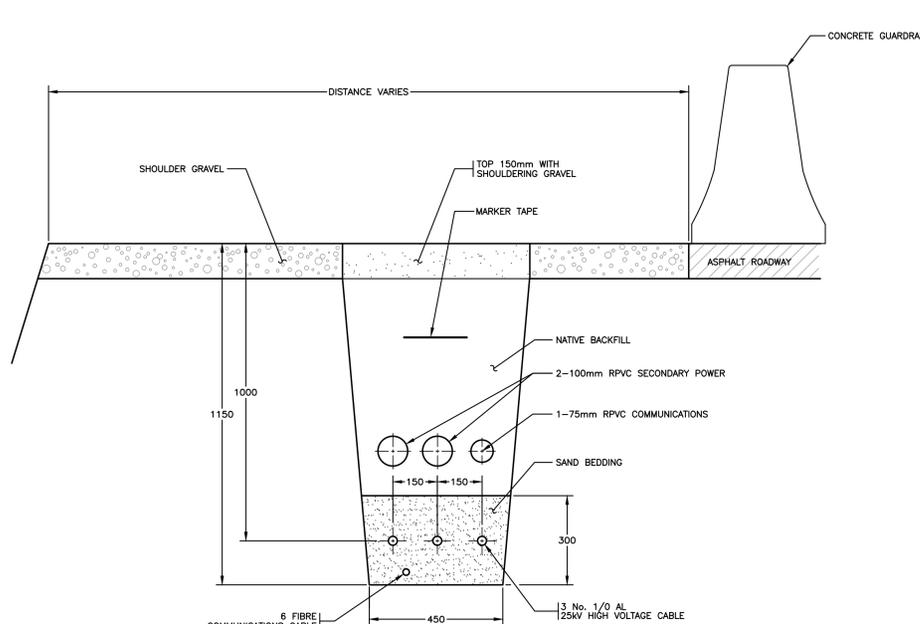
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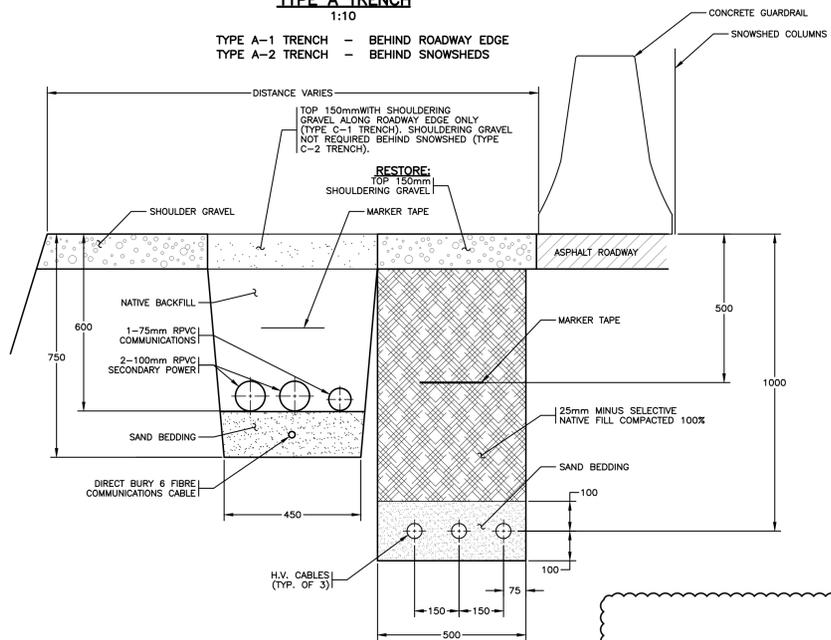


**TYPE A TRENCH**  
1:10

TYPE A-1 TRENCH - BEHIND ROADWAY EDGE  
TYPE A-2 TRENCH - BEHIND SNOWSHEDS

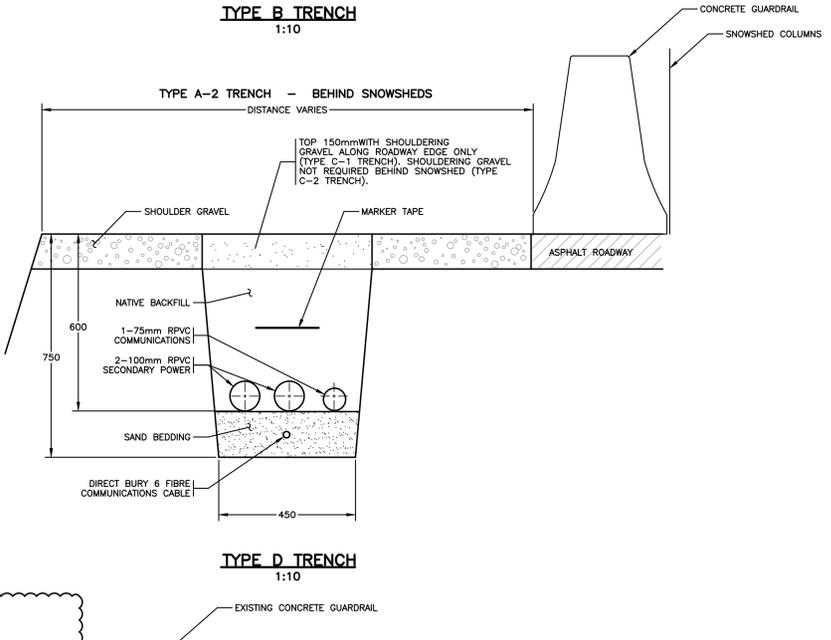


**TYPE B TRENCH**  
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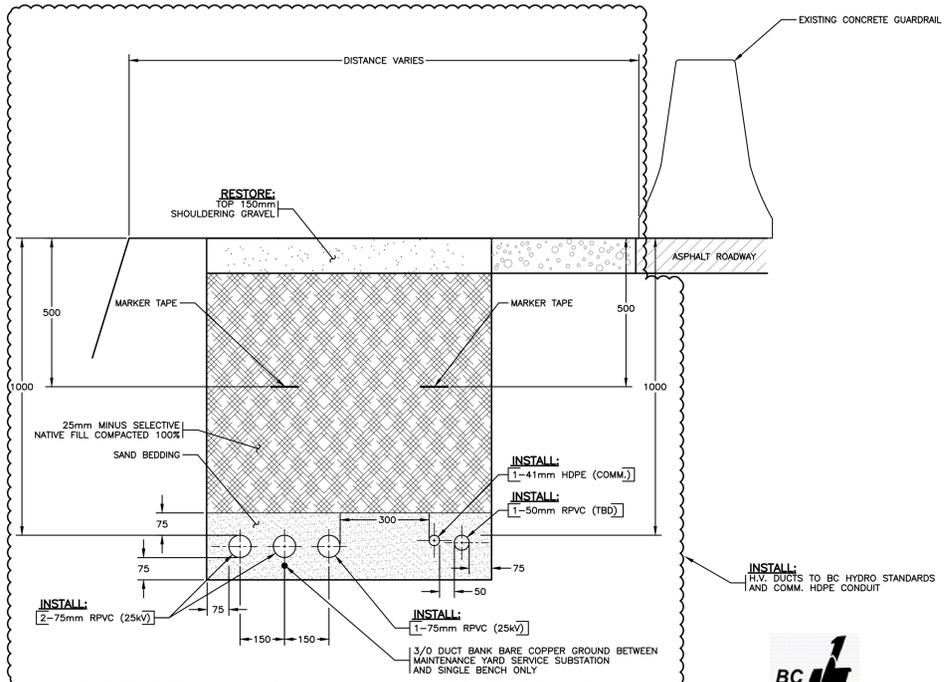


**TYPE C TRENCH**  
1:10

TYPE C-1 TRENCH - BEHIND ROADWAY EDGE  
TYPE C-2 TRENCH - BEHIND SNOWSHEDS



**TYPE D TRENCH**  
1:10



**SECTION E E E TYPE E TRENCH**  
1:10

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**SECTIONS TYPICAL TRENCH**

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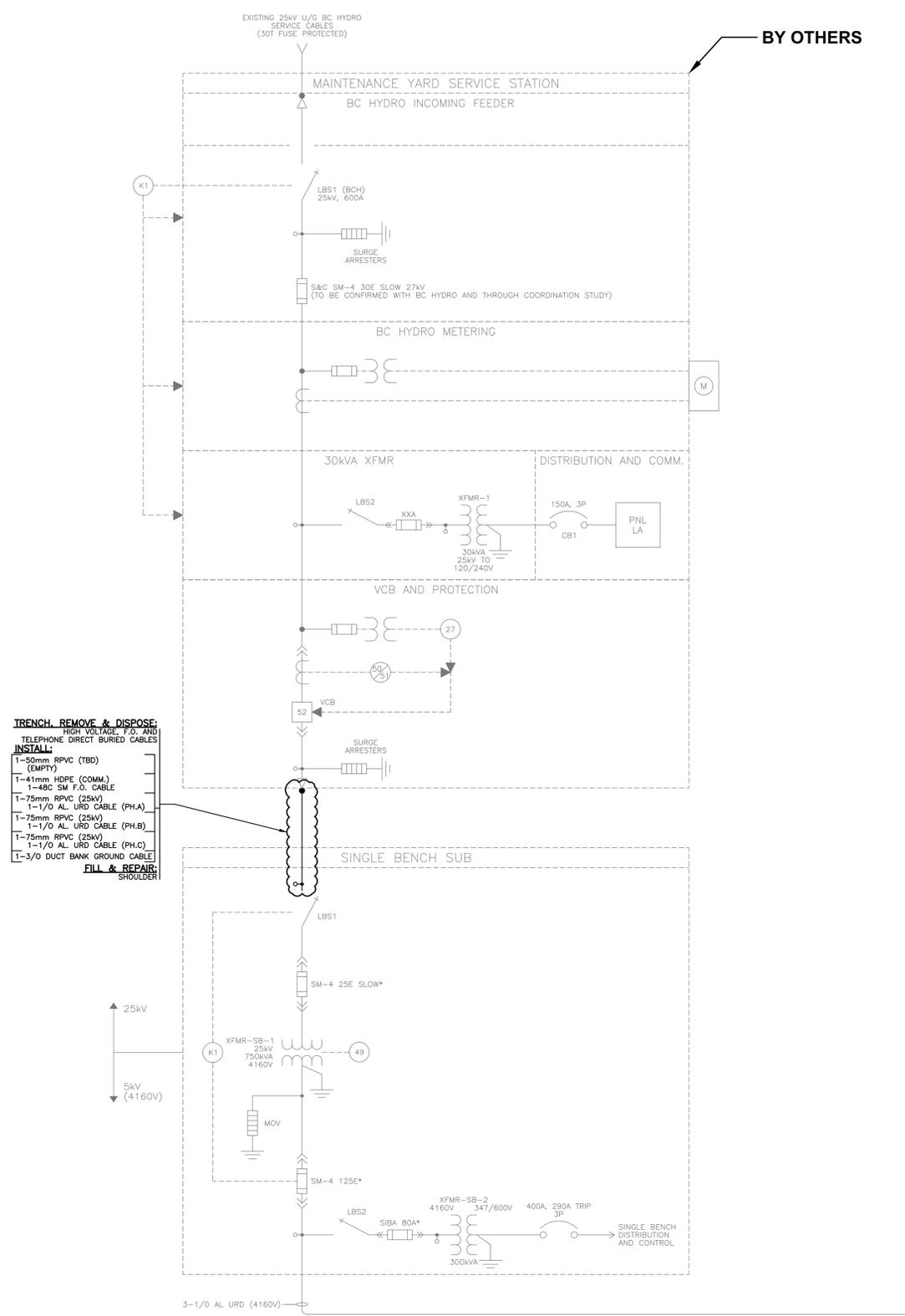
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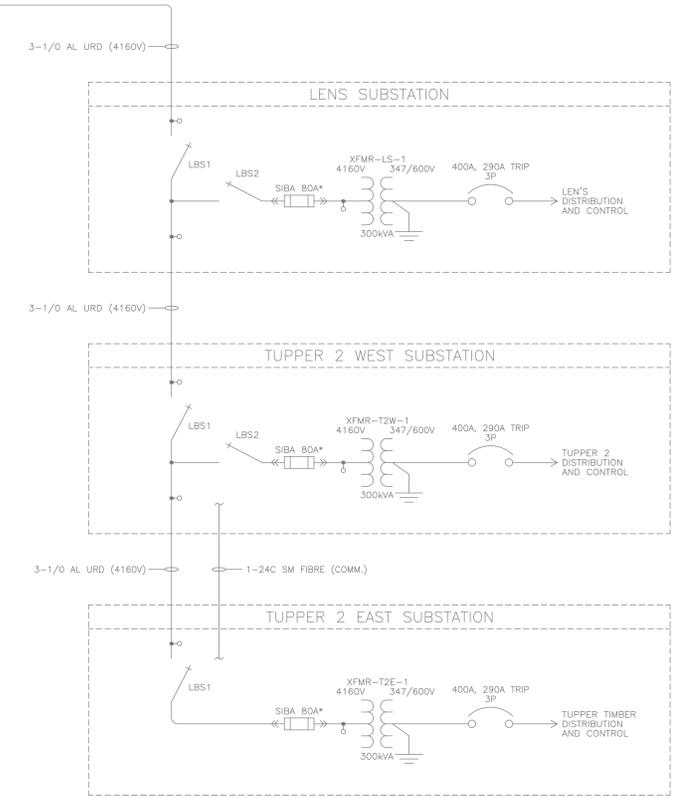
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4-113230 - Snowshed Lighting - Glacier National Park\01 - Design Drawings\KCAD\Primary Powerline Construction\25kV FEEDER UPRIDES\10 - 20/03/2015 12:57 PM MICHAEL TALADAR

C:\13230\_Snowshed Lighting - Glacier National Park\01 - Design\Drawings\Main\Primary Powerline Construction\25kv FEEDER UPR0005EN1.rvt 20/03/2015 2:01 PM MICHAEL MALADAR



BY OTHERS



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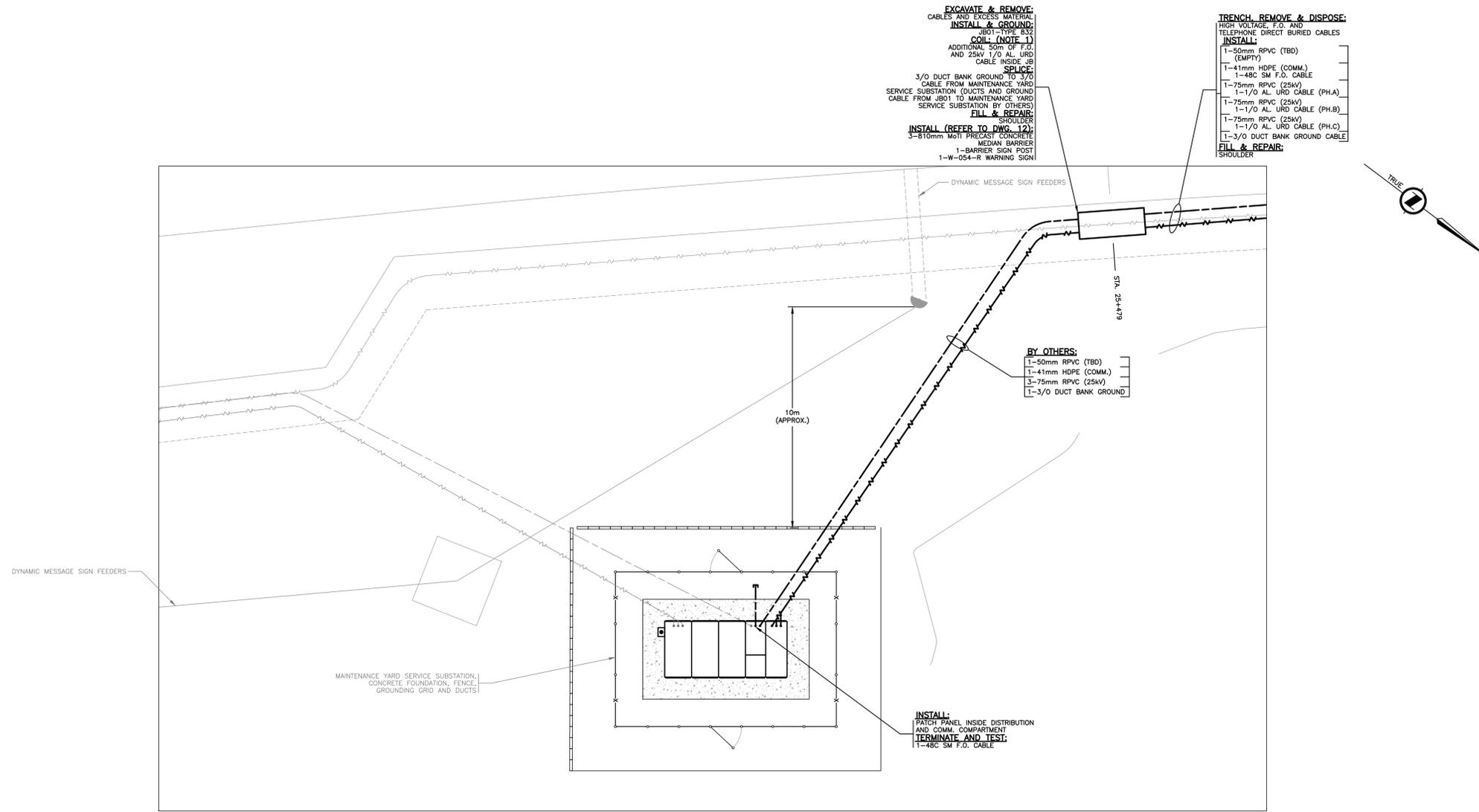
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**GLACIER NATIONAL PARK**

Drawing title/Titre du dessin  
**HIGH AND LOW VOLTAGE DISTRIBUTION SYSTEMS**  
**SINGLE LINE DIAGRAM PROPOSED SYSTEM HIGH VOLTAGE**

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ENLARGEMENT (2) MAINTENANCE YARD SERVICE SUBSTATION  
1:100

**NOTES:**

- THE EXCESS OF CABLES INSIDE JBO2 WILL BE PULLED THROUGH U/G DUCTS TO THE MAINTENANCE YARD SERVICE SUBSTATION BY OTHERS. INSTALL F.O. PATCH PANEL, TERMINATE AND TEST F.O. CABLE BETWEEN MAINTENANCE YARD SERVICE SUBSTATION AND SINGLE BENCH SUBSTATION.

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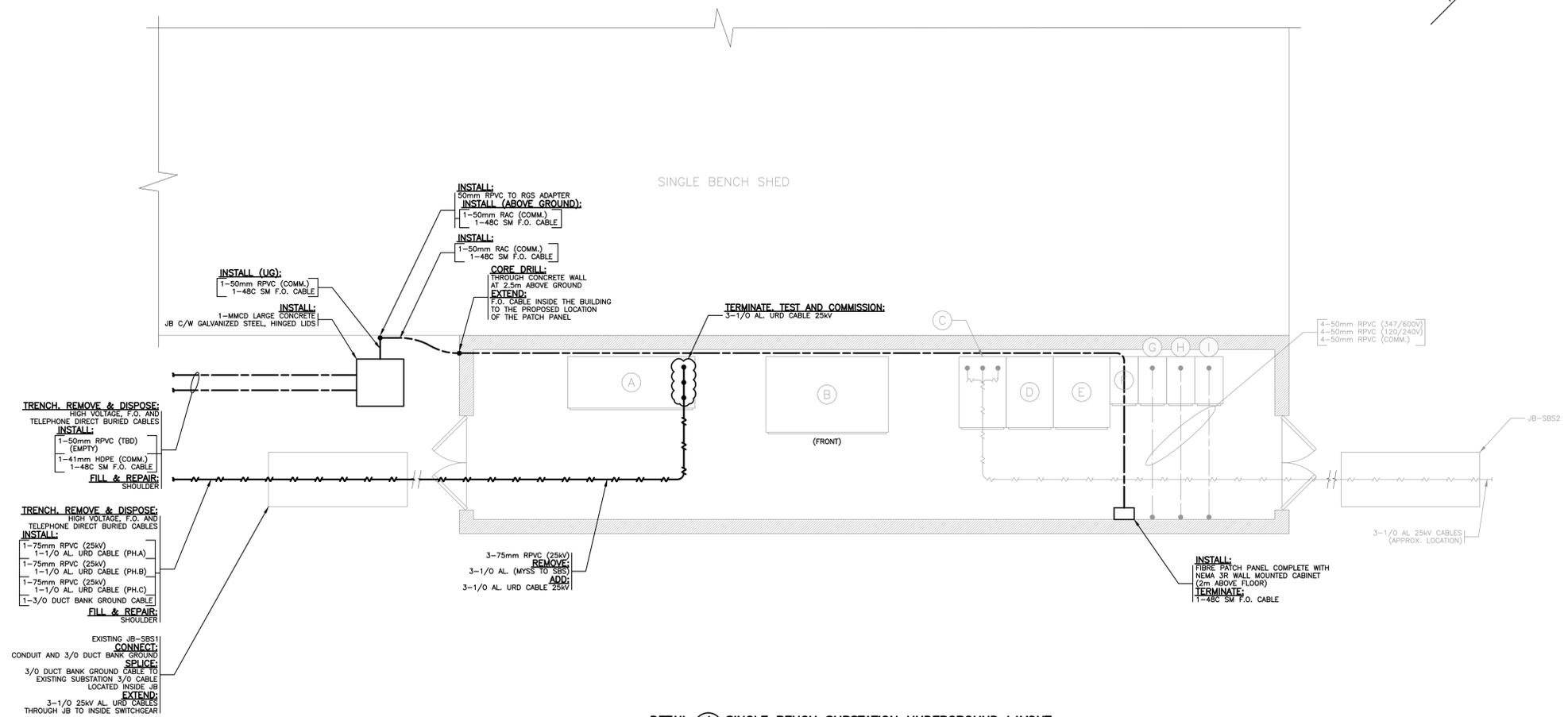
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A B		Detail number				A Numéro de détail				B		Sheet number				B Numéro de la feuille			
Linear dimensions in millimetres								Dimensions linéaires en millimètres											
Consultant's Stamp Sceau de l'expert-conseil								Eng. Stamp Sceau de l'ingénieur											
Client/client																			
Parks Canada Agency Western and Northern Region				L'Agence Parcs Canada Ouest et Nord Région															
Consultant's Name Nom de l'expert-conseil																			
PBX ENGINEERING				PBX ENGINEERING Ltd. Suite 200 - 2612 Bridge St. Victoria BC, V8T 4S9 Tel 250.388.7222 Suite 300 - 131 Water St. Vancouver BC, V6B 4M3 Tel 604.408.7222 www.pbxeng.com															
Project title/Titre du projet																			
ROGERS PASS SNOWSHED LIGHTING																			
TRANS CANADA HIGHWAY THROUGH ROGERS PASS																			
GLACIER NATIONAL PARK																			
Drawing title/Titre du dessin																			
HIGH AND LOW VOLTAGE DISTRIBUTION SYSTEMS																			
25kV SERVICE LAYOUT MAINTENANCE YARD																			
Surveyed by/Arpenté par				Drawn by/Dessiné par				Date											
				PBX				2014-01-17											
Designed by/Concept par				Reviewed by/Revisé par				Scale/Échelle											
AC				PB				AS NOTED											
Client Acceptance/Acceptation du client								Approved by/Approuvé par											
PARK RESPONSIBLE OFFICER/AGENT RESPONSABLE Date A & E SERVICES/GÈNE ET ARCHITECTURE Date																			
Project No./No du projet				Asset No./N° du bien				Sheet No./N° de la feuille											
201422								19											
Drawing Reference No./No de référence du dessin																			
G2002R1																			

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DETAIL 1 SINGLE BENCH SUBSTATION UNDERGROUND LAYOUT  
1:50

 DENOTES WORK ADDED AS PART OF THIS CONTRACT  
**ISSUED FOR TENDER  
NOT FOR CONSTRUCTION**  
 ALL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE



No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
-	MAR. 20 2015	ISSUED FOR TENDER	PBX	AC
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 Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/Client  
 Parks Canada Agency  
 Western and Northern Region  
 L'Agence Parcs Canada  
 Ouest et Nord  
 Région

Consultant's Name  
Nom de l'expert-conseil  
 PBX ENGINEERING Ltd.  
 Suite 200 - 2612 Bridge St.  
 Victoria BC, V8T 4S9 Tel 250.388.7222  
 Suite 300 - 131 Water St.  
 Vancouver BC, V6B 4K3 Tel 604.408.7222  
 www.pbxeng.com

Project Title/Titre du projet  
**ROGERS PASS SNOWSHED LIGHTING**  
**TRANS CANADA HIGHWAY THROUGH ROGERS PASS**  
**GLACIER NATIONAL PARK**

Drawing Title/Titre du dessin  
**HIGH AND LOW VOLTAGE DISTRIBUTION SYSTEMS**  
**UNDERGROUND LAYOUT SINGLE BENCH**

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date
	PBX	2014-01-17
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
AC	PB	AS NOTED
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
201422		32
Drawing Reference No./No de référence du dessin		
G2002R1		

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