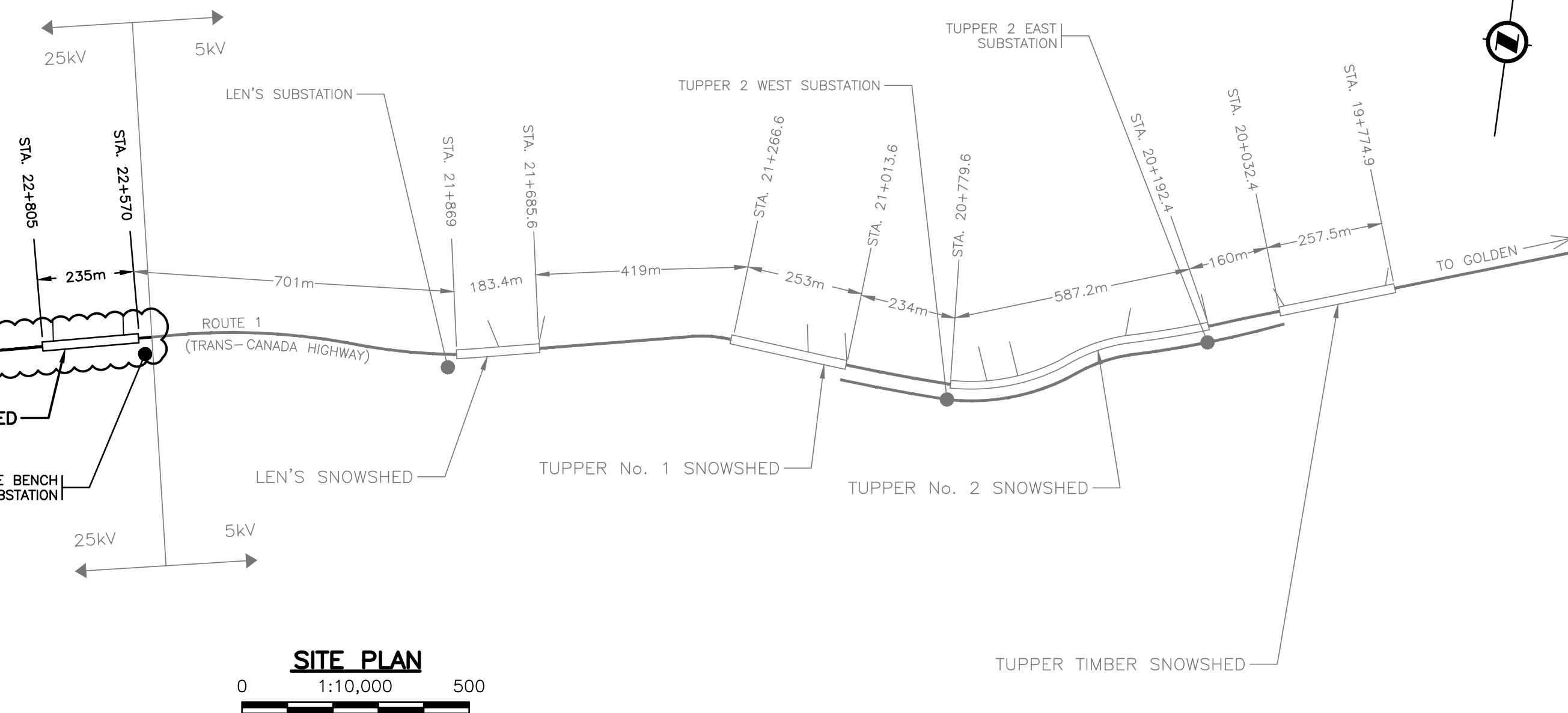
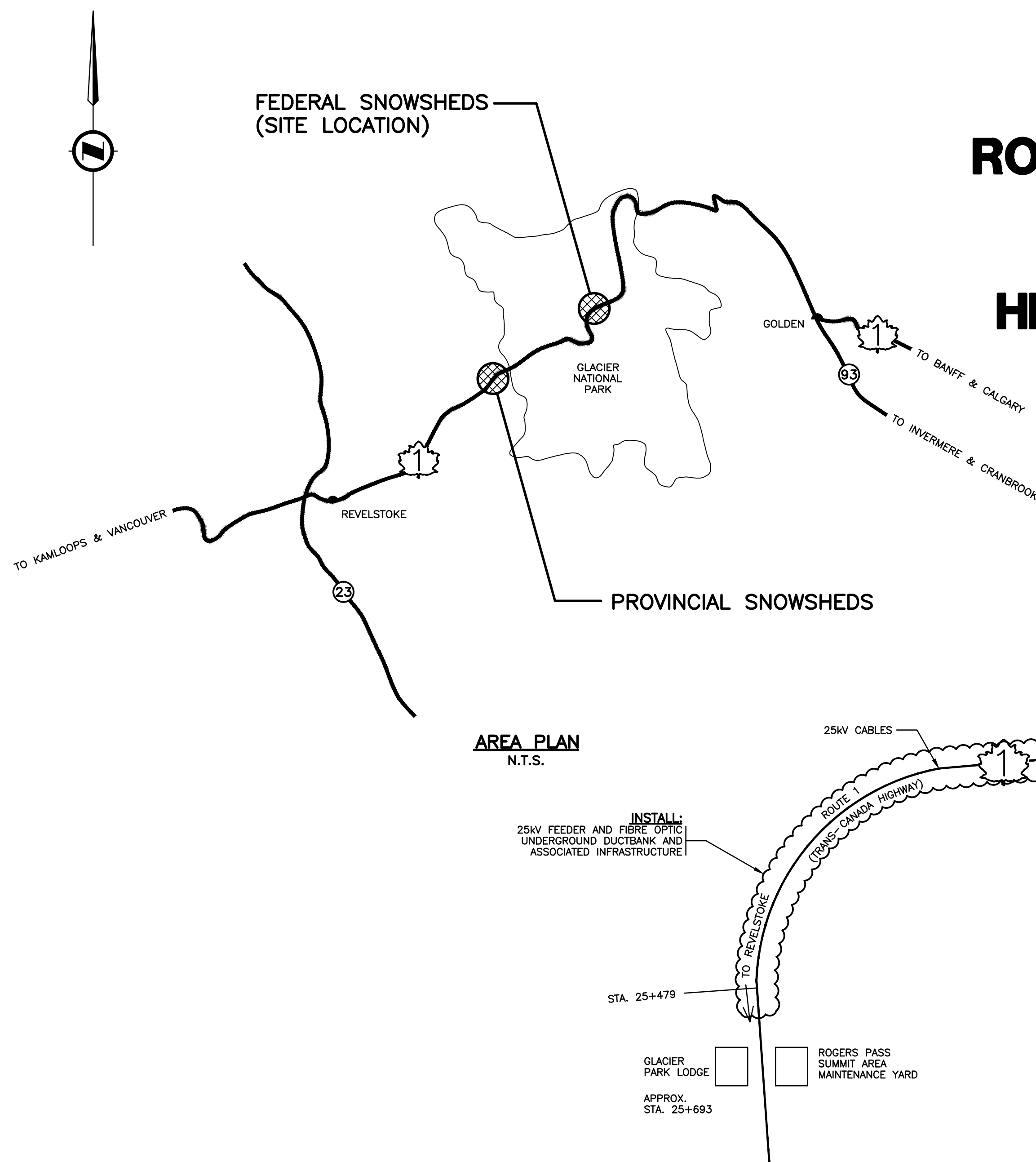


PARKS CANADA  
GLACIER NATIONAL PARK

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
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2	-	SYMBOLS, LEGEND & ABBREVIATIONS
3	-	GENERAL NOTES
4	-	DETAILS - EXISTING POWER DISTRIBUTION SYSTEM
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66	-	SINGLE LINE DIAGRAM - LOW VOLTAGE - TUPPER 2 EAST

Cloud symbol: DENOTES WORK ADDED AS PART OF THIS CONTRACT

Shaded box symbol: DRAWINGS NOT INCLUDED IN THE CURRENT PACKAGE

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











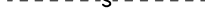







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-	MAR. 20 2015	ISSUED FOR TENDER	PBX	AC
Revision / Revision				
Detail number Sheet number		A Numéro de détail B Numéro de la feuille		
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Consultant's Stamp Sceau de l'expert-conseil		Eng. Stamp Sceau 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 Ltd. Suite 200 - 2612 Bridge St. Victoria BC, V8T 4S9 Tel 250.388.7222 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				
COVER SHEET, INDEX & SITE PLAN				
Surveyed by/Arpenté par	Drawn by/Dessiné par	Date		
	PBX	2014-01-17		
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle		
AC	PB	AS NOTED		
Client Acceptance/Acceptation du client		Approved by/Approuvé par		
PARK RESPONSIBLE OFFICER/AGENT RESPONSABLE		Date	A & E SERVICES/GÉNIE ET ARCHITECTURE	
Project No./No du projet		Asset No./N° du bien	Sheet No./N° de la feuille	
201422			1	
Drawing Reference No./No de référence du dessin		G2002R1		



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, TSHD
	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	CDC
CC	CONTROL CABINET
CAP	CAPACITOR
CB	CIRCUIT BREAKER
CEC	CANADIAN ELECTRICAL CODE, PART I, LATEST EDITION
CCT	CIRCUIT
CF	CUTOFF FUSE
CFL	COMPACT FLUORESCENT LAMP
COMM	COMMUNICATIONS
CT	CURRENT TRANSFORMER
CTRL	CONTROL
DS	DISCONNECT SWITCH
E	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
F	FUSE
FLU	FLUORESCENT (LIGHT FIXTURE)
FML	FLEXIBLE METAL CONDUIT
F.O.	FIBRE OPTIC
FPP	FIBRE PATCH PANEL
FR	FEEDER
GT	GROUND FAULT CIRCUIT INTERRUPTER
GRD	GROUNDING
H	HOT/ENERGIZED
HDPE	HIGH DENSITY POLYETHYLENE
HAND-HOLD	HAND-HELD
HO	HIGH OUTPUT
H.V.	HIGH VOLTAGE
JB	JUNCTION BOX
KX	INTERLOCK KEY "X"
LF	LOAD BREAK SWITCH
LTG	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LTG	LIGHT/LIGHTING
MGB	MASTER GROUND BAR
N	NEUTRAL
O/H	OVERHEAD
P	POLE
PH, Ø	PHASE (S)
PP	FULL PT
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE CONDUIT
PWR	POWER
R	RELAY
RAC	RIGID ALUMINUM CONDUIT
REC	RECEPTACLE
RCS	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
TO	TO BE DETERMINED
U/G	UNDERGROUND
UH	UNIT HEATER
URD	UNDERGROUND RESIDENTIAL DISTRIBUTION
VCB	VACUUM CIRCUIT BREAKER
XFR	TRANSFORMER

—	MAR. 20 2015	ISSUED FOR TENDER	PBX	AC
No.	Date	Description	Drawn by Design par	Approved Apprové

Revision / Revision	
	Detail number Sheet number
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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

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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**

**SYMBOLS, LEGEND & ABBREVIATIONS**

Surveyed by/Arpenté par PBX	Drawn by/Dessiné par PBX	Date 2014-01-17
Designed by/Concept par AC	Reviewed by/Revisé par PB	Scale/Échelle AS NOTED

Client/ Acceptance/Acceptation du client		Approved by/Approuvé par	
PARK RESPONSIBLE OFFICER/AGENT RESPONSIBLE Date		A & E SERVICES/GÉNIE ET ARCHITECTURE Date	
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201422		2	
Drawing Reference No./No de référence du dessin			
G2002R1			

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**GENERAL REQUIREMENTS:**

- LAWS, RULES, ORDINANCES AND INSPECTION:**

2. OBTAIN ALL NECESSARY PERMITS AND PAY ALL PERMIT FEES.

- SITE INSPECTION:**

1. EXAMINE THE SITE AND THE LOCAL CONDITIONS AFFECTING THE WORK UNDER THIS CONTRACT. NO CLAIM SHALL BE CONSIDERED LATER DUE TO UNSATISFACTORY REVIEW OF EXISTING SITE CONDITIONS. CO-ORDINATE ALL SERVICES.

**1. RESPONSIBILITY:**

2. CUTTING, PATCHING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

- ### 3. TYPE AND QUALITY OF MATERIAL:

1. EQUIPMENT AND MATERIALS SHALL BE NEW AND BEAR THE APPROVAL OF C.S.A. OR EQUIVALENT ULC TAGS

#### 4. OPERATION AND MAINTENANCE MANUALS:

2. INCLUDE ALL THE INFORMATION NEEDED TO OPERATE AND MAINTAIN ALL SYSTEMS AND EQUIPMENT PROVIDED IN THE PROJECT. IT SHALL BE PRESENTED AND ARRANGED IN A LOGICAL MANNER FOR EFFICIENT USE BY THE OWNER'S OPERATING PERSONNEL. THE INFORMATION PROVIDED SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

- ### 3. GUARANTEE:

1. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THE SATISFACTORY INSTALLATION OF ALL WORK AND APPARATUS AND REPLACE, AT NO ADDITIONAL COST TO THE OWNER, ANY PART WHICH MAY FAIL OR PROVE DEFECTIVE WITHIN A PERIOD OF TWELVE CALENDAR MONTHS AFTER THE FINAL ACCEPTANCE OF THE COMPLETE PROJECT.

**6. EQUIPMENT GROUNDING:**

1. CONDUCTOR SHALL BE XLPE INSULATED GREEN ANNEALED COPPER WIRE RW90 (MIN. SIZE #12 AWG).
2. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL AND EQUIPOTENTIAL GROUND CONDUCTOR

**7. SEISMIC RESTRAINTS:**

1. PROVIDE CERTIFIED PROFESSIONALLY SEALED SHOP AND PLACEMENT DRAWINGS FOR ALL ELECTRICAL EQUIPMENT, INCLUDING RUNS OF CONDUIT/CABLE RACKS SHOWING THE METHODS OF ATTACHMENT TO THE PARTICULAR STRUCTURE FOR EACH PIECE OF EQUIPMENT AND ASSEMBLY AND PROVIDE ANCHORAGE/ATTACHMENT DETAILS APPROVED AND SEALED BY A B.C. REGISTERED PROFESSIONAL ENGINEER FOR REVIEW BY THE CONSULTANT. SUBMIT SAMPLES OF MATERIALS REQUIRED TO COMPLETE THE SEISMIC RESTRAINT WORK FOR REVIEW IF REQUIRED. THE REQUIRED MATERIALS SHALL BE PROVIDED TO THE CONSULTANT FOR INSPECTION. PROVIDE INSPECTION REPORTS TO THE CONSULTANT THROUGHOUT CONSTRUCTION AND TO PROVIDE ALL REQUIRED LETTERS OF APPROVAL AND CONFORMANCE" WITH THE SPECIFIED CODES, STANDARDS AND BYLAWS. SEISMICALLY RESTRAIN THE FOLLOWING:

1. LIGHT FIXTURES.
2. CONDUIT BANKS WITHIN CEILING SPACE
3. ELECTRICAL DISTRIBUTION EQUIPMENT.
4. MISC. ELECTRICAL DEVICES.

**1. LABELING:**

1. LABEL ALL EQUIPMENT, CABLES, CONDUCTORS, PORTS, AND TERMINALS INCLUDING DEVICE NAME, DEVICE LOCATION, SOURCE, AND DESTINATION AS APPLICABLE.
2. CABLES AND CONDUCTORS SHALL BE LABELED AS FOLLOWS:
  - SECURELY FASTEN LABEL TAG TO THE CABLE USING THE WRAPS OR EQUIVALENT FASTENING METHOD.
  - ALL ENDS OF WIRE SEGMENTS AND ALL ACCESS POINTS BETWEEN SOURCE AND DESTINATION SHALL BE LABELED.
  - BUNDLE TOGETHER AND LABEL CABLES AT TERMINATION POINTS.
3. EQUIPMENT AND ENCLOSURES SHALL BE LABELED AS FOLLOWS:
  - LABEL EQUIPMENT ENCLOSURES USING LAMICOID STYLE LABEL IN THE FRONT FACE OF EACH ENCLOSURE USE 10mm HIGH BLACK CHARACTERS ON WHITE BACKGROUND.
  - LABEL ALL OTHER EQUIPMENT AND TERMINALS USING SELF LAMINATING VINYL STYLE LABELS. USE 8mm HIGH BLACK CHARACTERS ON WHITE BACKGROUND.
4. WIRING IDENTIFICATION:
  - USE COLOUR CODED WIRES IN COMMUNICATION CABLES, MATCHED THROUGHOUT SYSTEM.
5. WIRING TERMINATIONS:
  - TERMINATE ALL CABLES AND WIRING AS PER MANUFACTURER SPECIFICATIONS.

## 2. COORDINATION:

1. CONTRACTOR SHALL COORDINATE ALL WORK AS REQUIRED WITH BC HYDRO FOR BC HYDRO SERVICE.

### 3. TESTING:

- 1.0 PRE-TESTING DOCUMENTATION:**
1. THE CONTRACTOR SHALL SUBMIT AN OUTLINE OF PROPOSED TEST PROCEDURES TO THE ENGINEER FOR REVIEW AT LEAST 14 DAYS PRIOR TO THE START OF TESTS. PRINTED FORMS AND TAGGING SHALL BE IDENTIFIED AND SUBMITTED WITH THE PROPOSED TEST PROCEDURES OUTLINE FOR REVIEW.
  2. THE ENGINEER SHALL BE ADVISED IN WRITING ONE WEEK IN ADVANCE OF ALL TESTS.
  3. ALL TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER AT THE ENGINEER'S DISCRETION, AND A RECORD OF ALL TESTS SHALL BE MADE BY THE CONTRACTOR. ALL TESTING DOCUMENTATION SHALL BE SIGNED BY THE CONTRACTOR.
  4. WHERE APPLICABLE, THE MANUFACTURER'S INSTALLATION AND TESTING MANUALS (OR EQUIVALENT DOCUMENTATION) SHALL BE CONSULTED BY THE CONTRACTOR FOR RECOMMENDED FIELD TESTS. THESE FIELD TESTS SHALL, WHERE APPLICABLE, BE INCORPORATED IN THE CONTRACTOR'S TESTING PROCEDURES.

## 2.0 POST-TESTING DOCUMENTATION:

1. SUBMIT TO THE ENGINEER THE RESULTS OF ALL EQUIPMENT TESTING

2. PROVIDE EVIDENCE (AS A MINIMUM) OF TESTING OF THE OPERATION AND CORRECT INSTALLATION OF THE FOLLOWING EQUIPMENT AND WIRING TO BE INSTALLED IN THE FIELD CHECKLISTS:
  - 2.1 FIBRE OPTIC CABLE
  - 2.2 HIGH VOLTAGE CABLES

### 3.0 TEST PROCEDURES:

23. THE CONTRACTOR SHALL VISUALLY INSPECT ALL EQUIPMENT FOR DEFECTS IMMEDIATELY UPON RECEIPT AT THE WORK SITE, INCLUDING ITEMS PROVIDED BY OTHERS.


24. ALL EQUIPMENT CABLING/WIRING SHALL BE TESTED FOR CORRECT FUNCTIONING WITH REGARDS TO SAFETY, INSULATION RESISTANCE, GROUNDING CONTINUITY AND GENERAL OPERATION.
25. ALL EQUIPMENT SHALL BE TESTED FOR PROPER AND SECURE CONNECTIONS, AND CONFORMANCE TO EQUIPMENT NAMEPLATE DETAILS AND THE DRAWINGS AND SPECIFICATIONS.
26. BEFORE ENERGIZING ANY PORTION OF THE ELECTRICAL SYSTEMS, MEGGER TESTS SHALL BE PERFORMED ON ALL FEEDERS AND BRANCH CIRCUITS AND HI-POT TEST SHALL BE PERFORMED ON ALL HIGH VOLTAGE FEEDERS. EXERCISE CARE NOT MEGGERING LOW VOLTAGE CABLES (SIGNALS, VIDEO, ETC.). TEST REPORTS SHALL BE PROVIDED TO ENGINEER FOR REVIEW. HI-POT OLDER HIGH VOLTAGE CABLES IN COMPLIANCE WITH NETA TESTING STANDARDS.
27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING ALL INSPECTIONS AND TESTS REQUIRED BY MUNICIPAL OR OTHER AUTHORITIES HAVING JURISDICTION OVER THE WORK AND FOR OBTAINING ALL NECESSARY PERMITS. COPIES OF ALL INSPECTION AND TEST RESULTS UNDERTAKEN BY THE REPRESENTATIVES OF SUCH AUTHORITIES SHALL BE PASSED TO THE ENGINEER.
28. FIBRE OPTIC CABLE SHALL BE OTDR TESTED AT THE PROPOSED FIBRE PATCH PANELS INSIDE SINGLE BENCH SNOWSHED SUBSTATION AND MAINTENANCE YARD SUBSTATION.

#### 4.0 CORRECTIONS:

1. ALL FAULTS AND DEFECTS IN ANY ELECTRICAL EQUIPMENT AND SYSTEMS COMPLETED UNDER THE CONTRACT, SHALL BE CORRECTED WITHOUT ADDED EXPENSE TO THE OWNER AND PRIOR TO SUBSTANTIAL PERFORMANCE.

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	Detail number Sheet number	A Numéro de détail B Numéro de la feuille
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Client/client	
	<p>Parks Canada            Agency            Western and            Northern Region</p>
	<p>L'Agence Parcs            Canada            Ouest et Nord            Région</p>

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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

## GENERAL NOTES

Surveyed by/Arpenté par	Drawn by/Dessiné par PBX	Date 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/GÉNIE ET ARCHITECTURE		Date
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Project No./No du projet <b>201422</b>	Asset No./N° du-bien	Sheet No./ N°de la feuille
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Drawing Reference No./No de référence du dessin	3
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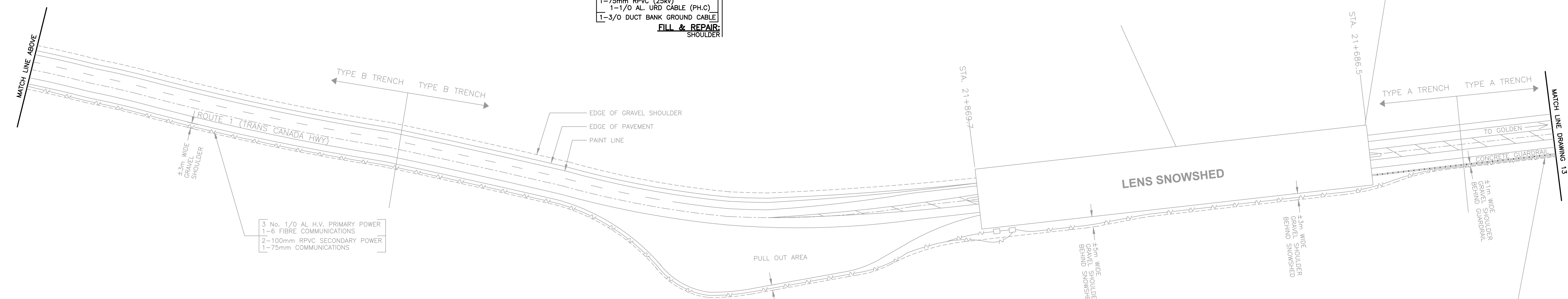








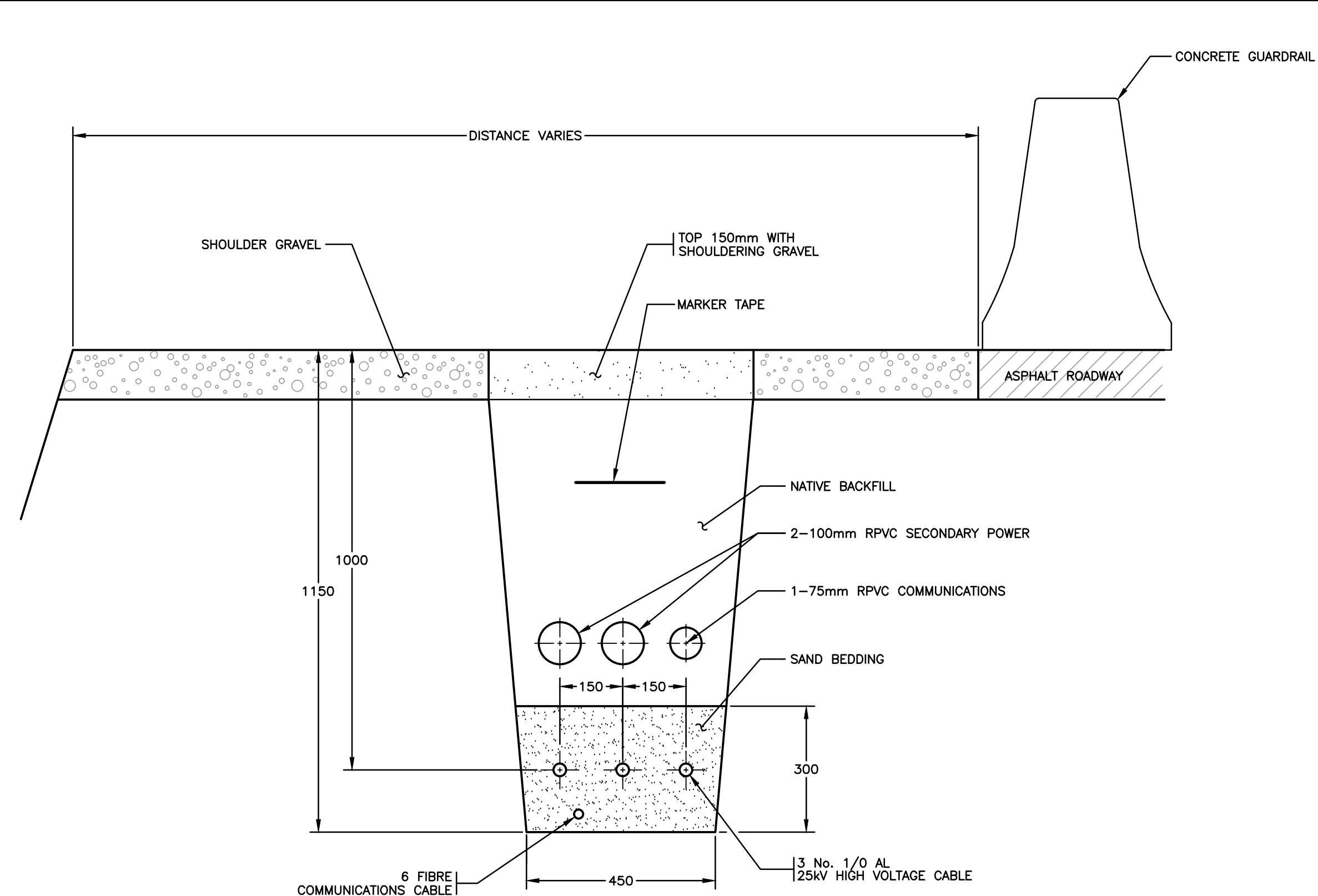




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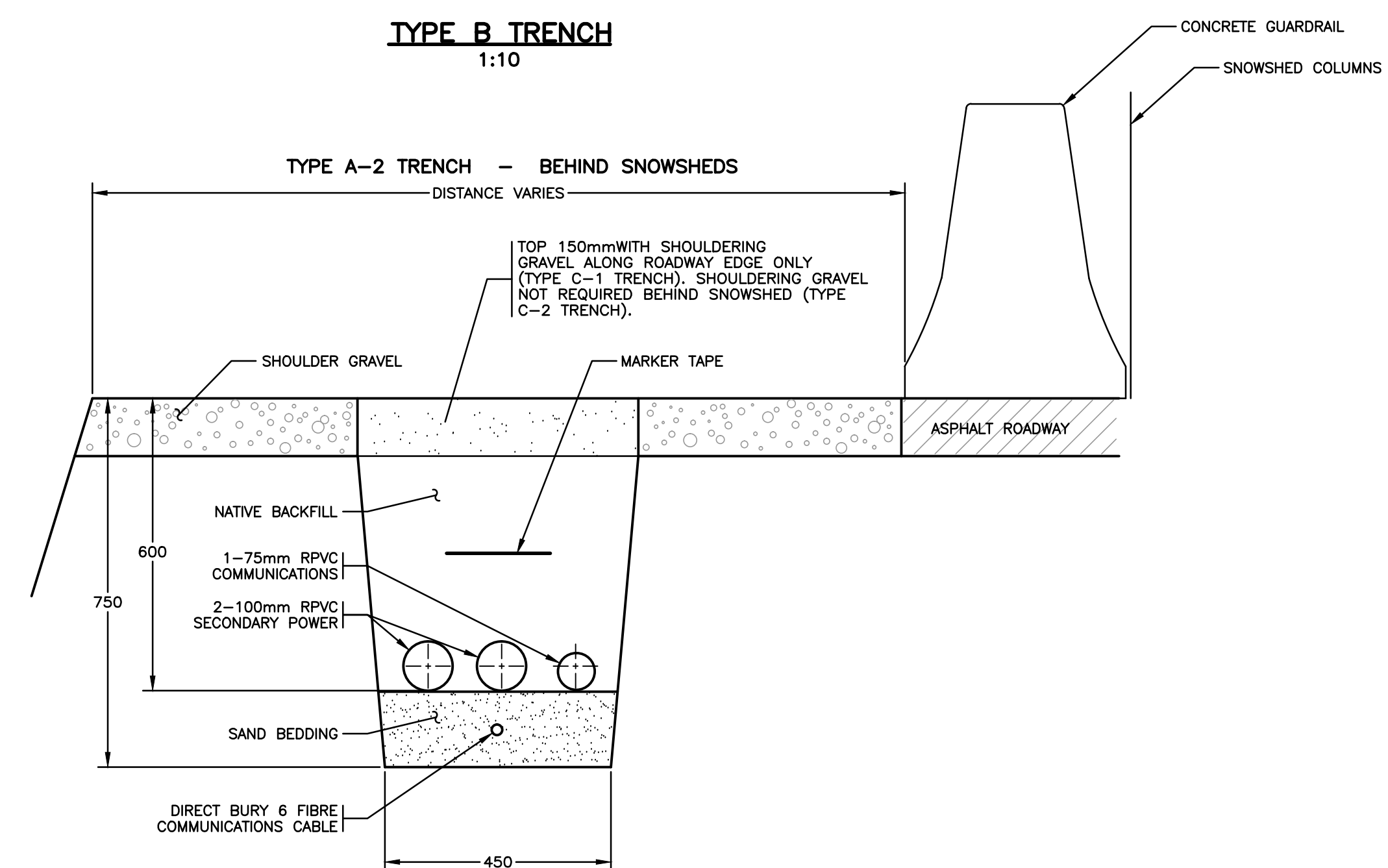
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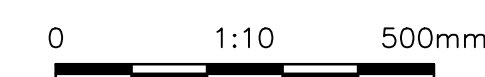
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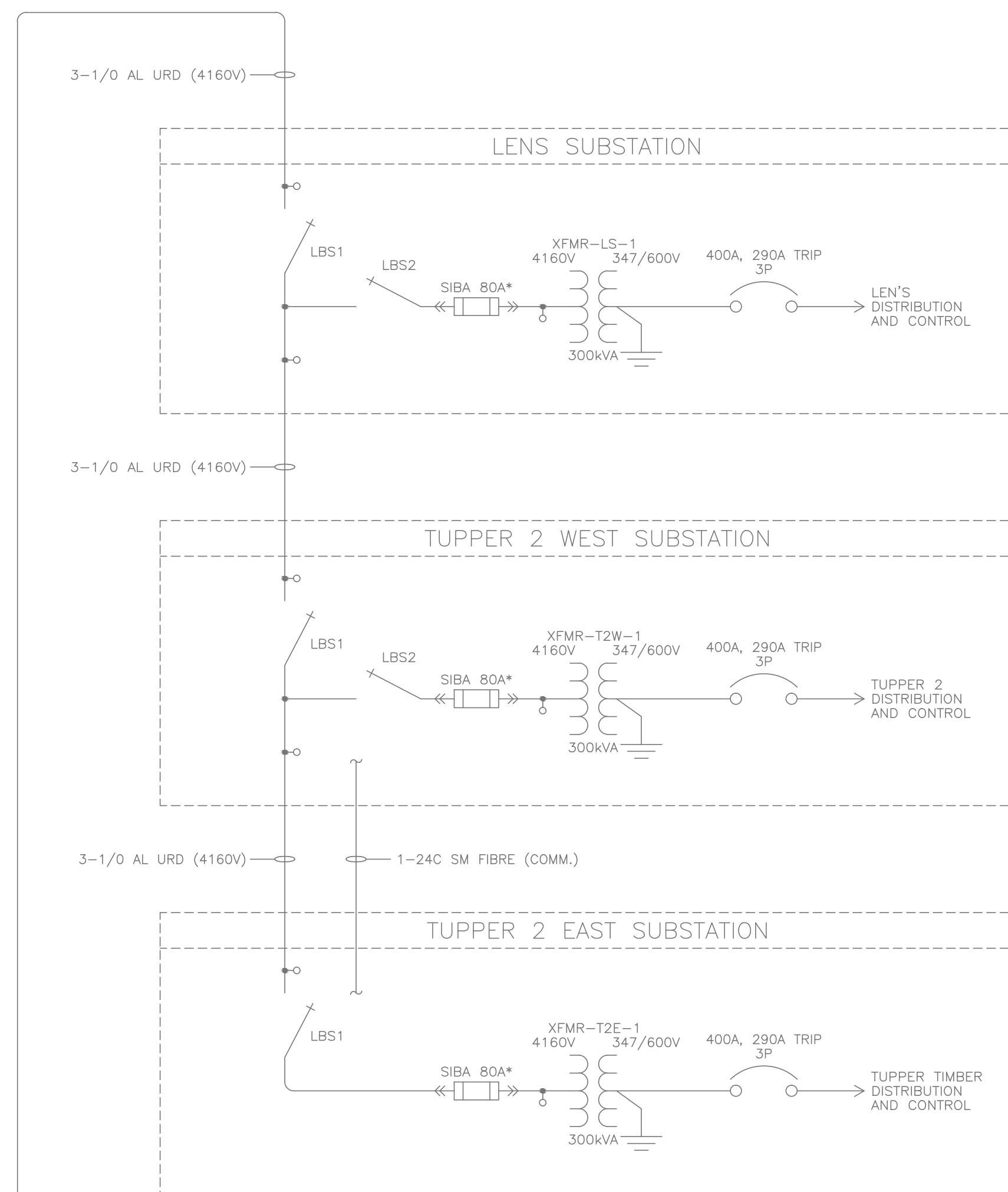
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ALL EQUIPMENT IS EXISTING  
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