VAR SPEED SYS
ITS-000E
ITS-1-000E

SHEET NUMBER

SITE CODE

HWY DIST

REG

SHEET OF ELECTRICAL ENGINEER OF RECORD (FOR CURRENT REVISION)

DATE
DESIGNED
QUALITY CONTROL
QUALITY ASSURANCE
TRAN ELECTRICAL DESIGN REVIEW

DATE

DATE

DATE

FV
IN
CE

DRAWING NUMBER

REV
DATE
REVISIONS
DRAWN

RECORD DRAWING

ALL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE.

DOOR SWITCH
LIGHT POWER
LED LIGHT STRIP
FAN
HEATER

MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
ELECTRICAL ENGINEERING CENTRE

VARIABLE SPEED LIMIT SYSTEM
ITS CABINET ELECTRICAL
ITS-1-000E

HVAC & UPS

ALL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE.

RECORD DRAWING
VARIABLE SPEED LIMIT SYSTEM
ITS CABINET ELECTRICAL
ITS-1-0007

ALL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE

RECORD DRAWING
### ITS CABINET EQUIPMENT LIST - BASE CABINET

<table>
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<th>ITEM No.</th>
<th>DESCRIPTION</th>
<th>MANUFACTURER</th>
<th>MANUFACTURER PART No.</th>
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<tr>
<td>1</td>
<td>VSL SIGN POWER SUPPLY, 12VDC OUTPUT, QUINT-PS/24DC/12DC/8 (SOLAR LOCATIONS)</td>
<td>PHOENIX CONTACT</td>
<td>0916606</td>
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### ITS CABINET EQUIPMENT LIST - DATA LOGGER COMPONENTS

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<tr>
<td>11</td>
<td>SENSOR, ROAD SURFACE TEMPERATURE, 9-30VDC, 33mW</td>
<td>VAISALA</td>
<td>DST111</td>
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<td>9</td>
<td>SENSOR, ROAD SURFACE STATE, 9-30VDC, 1.9W</td>
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### ITS CABINET EQUIPMENT LIST - RVSD COMPONENTS

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<tr>
<td>22</td>
<td>TERMINAL BLOCK END CLAMP, CLIPFIX 35</td>
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### ITS CABINET EQUIPMENT LIST - VARIABLE-SPEED SIGN COMPONENTS

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<tbody>
<tr>
<td>4</td>
<td>UNIVERSAL AUTOMATIC TRANSFER SWITCH FOR UPS, UATS</td>
<td>ALPHA</td>
<td>020-165-21</td>
<td>1</td>
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<tr>
<td>3</td>
<td>UPS, 650W, 120V IN/OUT, 24VDC BATTERY STRING, FXM650, W/ ETHERNET</td>
<td>ALPHA</td>
<td>017-234-31</td>
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### ITS CABINET EQUIPMENT LIST - RVSD INTERFACE COMPONENTS

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<tr>
<td>6</td>
<td>BLANK MARKER CARD, 12mm BLOCK WIDTH, 30/CARD, UCT-TM</td>
<td>PHOENIX CONTACT</td>
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### ITS CABINET EQUIPMENT LIST - VARIABLE-SPEED LIMIT SYSTEM

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ALL EQUIPMENT IS PROPOSED UNLESS NOTED OTHERWISE

ISSUED FOR CLIENT REVIEW NOT FOR CONSTRUCTION

DETAIL: VAULT V1-123-03 - FIBRE SPLICING

LOCATION: 1224W

FIBRE COLOUR CODE

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<td>NAVY</td>
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REFERENCES:

- TO BE CARRIED OUT IN ACCORDANCE WITH THE INSTRUCTIONS PROVIDED IN SECTION 6 OF THE DRAWINGS.

NOTE:

- REFER TO SHEET 003 FOR NOTES.

- USE "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" FOR APPLICABLE STANDARD DRILLING.
DETAIL - PART QQ2: GATE SLEEVE

DETAIL - PART QQ3: GATE SADDLE

ALL DIMENSIONS SHOWN ARE IN INCHES

RECORD DRAWING NOTE:
THE IDEA AND CONTENT OF THE UNDATED ON THIS DRAWING COMPARE WITH THE INFORMATION CONTAINED IN THE ELECTRICAL INSTALLATION DESIGN. THE LATE DESIGN CHANGES MADE DURING CONSTRUCTION THAT WERE NOT IN THE UNDATED ARE NOT INCLUDED IN THIS DRAWING, BUT NOT NECESSARILY IN THE ELECTRICAL INSTALLATION. THE LATE DESIGN CHANGES, BUT NOT NECESSARILY IN THE ELECTRICAL INSTALLATION.

THE LATE DESIGN CHANGES ARE NOT WARRANTED OR GUARANTEED, NOR ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE AS-CONSTRUCTED INFORMATION SUPPLIED BY OTHERS CONTAINED IN THIS DRAWING. BUT NOT NECESSARILY IN THE ELECTRICAL INSTALLATION. THEY ARE PROVIDED AS AN ALTERNATIVE VERSION WHICH SUBSTANTIALLY COMPLIES WITH THE ORIGINAL DESIGN INTENDED.

SEE "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" FOR APPLICABLE STANDARD DRAWINGS.
MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE

PEDESTRIAN TUNNEL PROFILE DETAIL

PEDESTRIAN TUNNEL LUMINARIES DETAIL (Typ.)

PEDESTRIAN TUNNEL NORTH END DETAIL

PEDESTRIAN TUNNEL SOUTH END DETAIL

WIRING DIAGRAM - SERVICE PANEL No. 1

ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT WHERE NOTED

SEE "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" FOR APPLICABLE STANDARD DRAWINGS
ALL EQUIPMENT IS EXISTING EXCEPT WHERE NOTED

FOR CONTINUATION OF LIGHTING REFER TO DRAWING 12089-1

ROUNDABOUT ILLUMINANCE DESIGN DATA (EXISTING)

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Illum. Bollards 120V

POSTED SPEED LIMIT 50 km/h

DO NOT USE THIS DRAWING FOR PAVEMENT MARKING STANDARDS

ALL EQUIPMENT IS PROPOSED

ROUNDABOUT LIGHTING SYSTEM 120/240V

16TH AVENUE LIGHTING SYSTEM 347/600V

MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
ELECTRICAL ENGINEERING CENTRE

SIGNAL AND LIGHTING MODIFICATIONS
16TH AVENUE AT EAST MALL
UNIVERSITY OF BRITISH COLUMBIA

SITE PLAN - NOTES
WIRING DIAGRAM - DISTRIBUTION PANEL No.1
PEDESTRIAN CROSSING CONTROLLER

SIGNAL HEAD 1 (TYP.)
SIGNAL HEAD 2 (TYP.)
SIGNAL HEAD 3 (TYP.)
SIGNAL HEAD 4 (TYP.)

PEDESTRIAN SIGNAL 1 (TYP.)
PEDESTRIAN SIGNAL 2 (TYP.)
PEDESTRIAN SIGNAL 3 (TYP.)
PEDESTRIAN SIGNAL 4 (TYP.)

GROUND WIRE (TYP.)
GROUND WIRE (TYP.)
GROUND WIRE (TYP.)
GROUND WIRE (TYP.)

ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT WHERE NOTED

LIGHTING ON CANTILEVERS WIRE 120V
POSTED SPEED LIMIT 50 MPH
ALL EQUIPMENT IS PROPOSED
ALL SIGNAL AND PEDESTRIAN DISPLAYS ARE LED

WIRING DIAGRAM - SERVICE PANEL No. 1

ELEVATIONS

BASEMENT

SIGNAL CABLE WIRING IN POLE HANDBACK

MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE

QUALITY CONTROL

QUALITY ASSURANCE

ELECTRICAL AND ITS ENGINEERING SHEET NUMBER

DATE

DATE

TRAN ELECTRICAL DESIGN REVIEW

HWY. DIST REG DRAWING NUMBER

CANLCE PRINTS BEARING FPREVIOUS LETTER

55

55
ALL EQUIPMENT IS PROPOSED UNLESS NOTED OTHERWISE

REFER TO SHEET DOCS FOR NOTES

14F STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION FOR APPLICABLE STANDARD DRAWINGS

ISSUED FOR CLIENT REVIEW NOT FOR CONSTRUCTION

MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
ELECTRICAL ENGINEERING CENTRE

FRASER VALLEY VARIABLE SPEED LIMIT SYSTEM PROJECT WIDE DRAWINGS

WGS

<table>
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<td>TE-17034-0404</td>
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NOTES
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT STANDARDS SPECIFIED FOR HIGHWAY CONSTRUCTION AND THE ELECTRICAL, MECHANICAL AND PLUMBING STANDARDS AND THE SOFTWARE.
2. ALL CONDUIT FROM JUNCTION BOX TO BOXES ARE TO BE 50mm PVC.
3. ALL CONDUIT BOXES SHALL BE POSITIONS BEYOND OR, AS IN ACCORDANCE, TO THE SIDE, BUT NOT IN FRONT OF PILES.
4. ALL CONDUIT BOXES ARE JUNCTION BOXES NOT TO SCALE.
5. ALL NEW JUNCTION BOXES SHALL BE STEEL, LIT.
6. CONSTRUCTION OF SUPPLY TAPED RESISTANCE BOX FOR BOTH MAIN AND SERVICE PANELS. FOR THESE BOXES SHALL BE USED IN THE DRAWING.

ELEVATIONS

CONDUCTOR COLOUR CODE

FOR MINISTRY USE ONLY
THIS DRAWING SERIES PARTIALLY SUPERSEDES DRAWING SERIES TC-80040-6 AND TC-94179

POSTED SPEED LIMIT 70 km/h ON HIGHWAY 97
DO NOT USE THIS DRAWING FOR PAVEMENT MARKINGS OR SIGNING STANDARDS
ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT WHERE NOTED
SEE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION FOR APPLICABLE STANDARD DRAWINGS

SITE PLAN

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SITE PLAN - ELEVATIONS - WIRING DIAGRAM

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POSTED SPEED LIMIT 70 km/h ON HIGHWAY 97
DO NOT USE THIS DRAWING FOR PAVEMENT MARKINGS OR SIGNING STANDARDS
ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT WHERE NOTED
SEE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION FOR APPLICABLE STANDARD DRAWINGS
ELEVATIONS

WIRING DIAGRAM - SERVICE PANEL No. 5
(MOUNTED INSIDE SCALE BUILDING)

FOR MINISTRY USE ONLY

THIS DRAWING SERIES PARTIALLY SUPERSEDES
DRAWING SERIES TE-80040-6 AND TE-84179