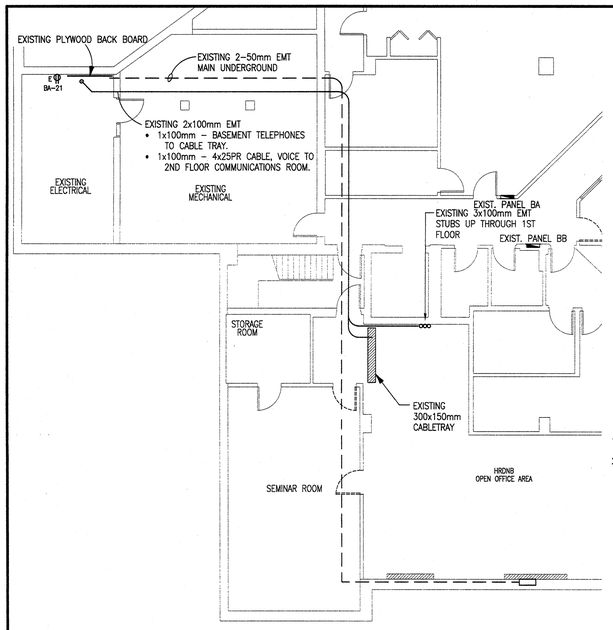
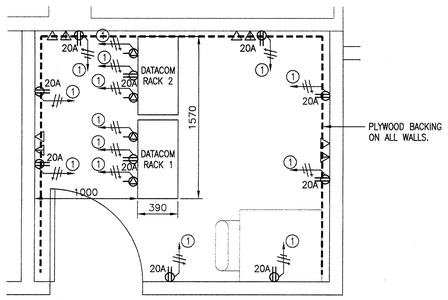


EXISTING CONDUIT & CABLE TRAY LAYOUT

SCALE : 1:100

0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



TELECOM ROOM - PLAN VIEW

3 / E4

SCALE: 1:25

0mm 500mm 1000mm 1500mm 2000mm 2500mm

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS.

LEGEND

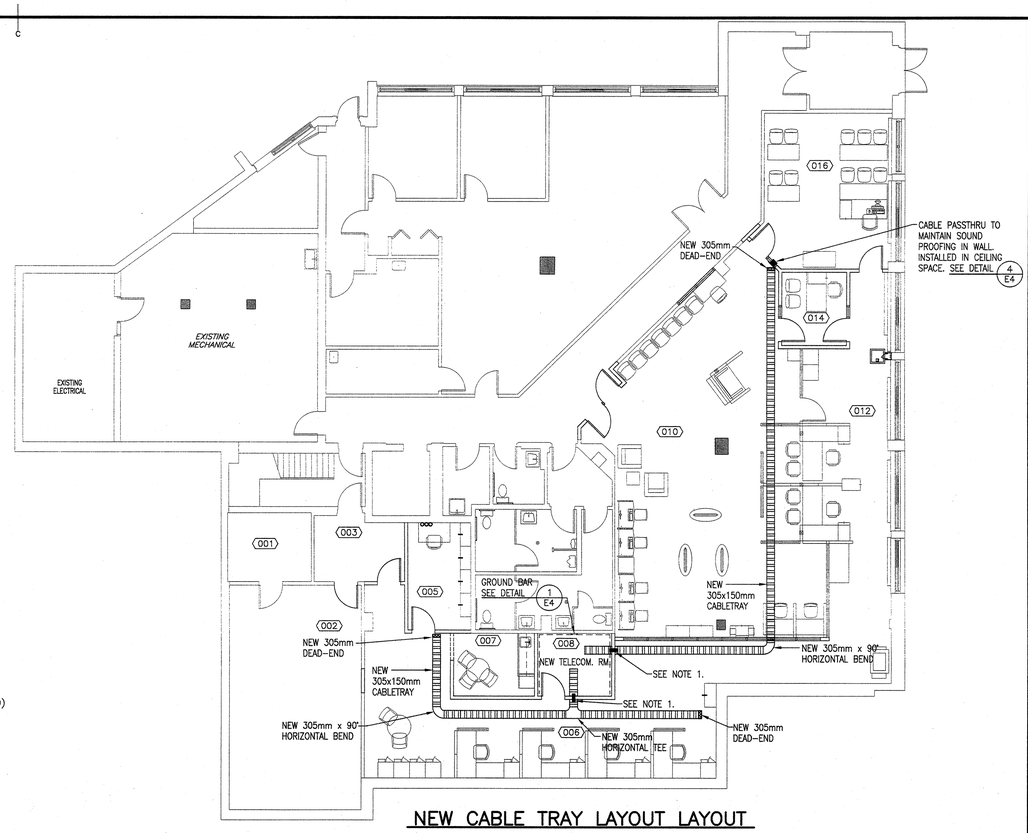
20A — DEDICATED, NON-SWITCHED, 3-WIRE, 125 VOLT, 20 AMP T-SLOT, DUPLEX RECEPTACLE (5-20R). ALL RECEPTACLES SHALL BE INSTALLED USING SINGLE POINT GROUNDING PRINCIPLES IN ACCORDANCE WITH BUILDING NETWORK DESIGN (BND) MANUAL C-56-007-003/AB-001 SECTION 7. LOCATION OF ELECTRICAL OUTLET SHALL BE COORDINATED WITH SHARED SERVICES CANADA (SSC).

DEDICATED, NON-SWITCHED, 3-WIRE, 125 VOLT, 20 AMP TWIST-LOCK RECEPTACLE (L5-20R). ALL RECEPTACLES SHALL BE INSTALLED USING SINGLE POINT GROUNDING PRINCIPLES IN ACCORDANCE WITH BUILDING NETWORK DESIGN (BND) MANUAL C-56-007-003/AB-001 SECTION 7. LOCATION OF ELECTRICAL OUTLET SHALL BE COORDINATED WITH SHARED SERVICES CANADA (SSC).

(1) — FEED RECEPTACLE FROM A 1P, 20A BREAKER SUPPLIED AND INSTALLED IN THE NEAREST 120V DISTRIBUTION PANEL WITH AVAILABLE CAPACITY.
FEEDER SIZE SHALL BE 2#12 AWG RW75 Cu.+ 1#12 AWG Cu. Bond IN 16mm EMT, UNLESS OTHERWISE INDICATED.

DUAL COMMUNICATIONS, DATA/PRINTER OUTLET, MOUNTED 450mm A.F.F. CONSISTING OF 100mm x 100mm BOX, TILE RING, 27mm CONDUIT (c/w PULL CORD) TO ACCESSIBLE CEILING SPACE AND GROUNDING BUSHING. DATA OUTLETS AND CABLES SUPPLIED AND INSTALLED BY SHARED SERVICES CANADA (SSC).

SINGLE COMMUNICATIONS, DATA/PRINTER OUTLET, MOUNTED 450mm A.F.F. (150mm ABOVE TOP OF HEATER) CONSISTING OF 100mm x 100mm DEVICE BOX, TILE RING, 27mm CONDUIT (c/w PULL CORD) TO ACCESSIBLE CEILING SPACE AND GROUNDING BUSHING. DATA OUTLET AND CABLE SUPPLIED AND INSTALLED BY SHARED SERVICES CANADA (SSC).



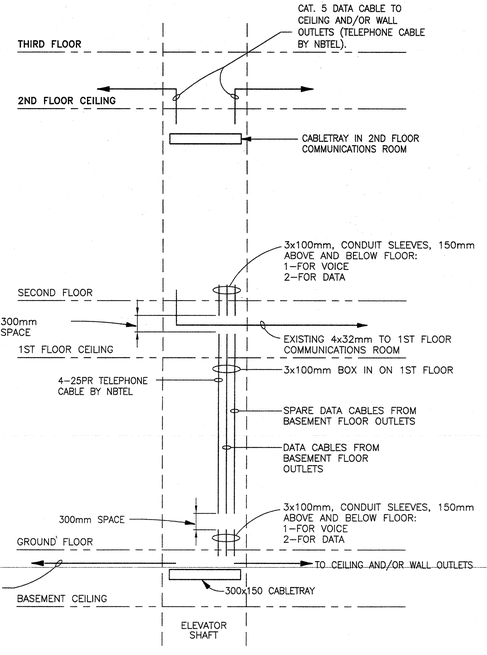
NEW CABLE TRAY LAYOUT LAYOUT

SCALE : 1:100

0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

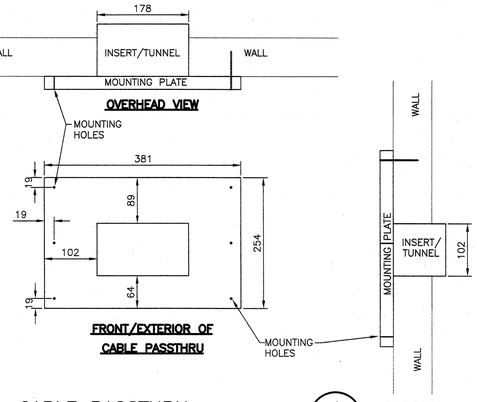
NOTES:

1. CONTRACTOR SHALL PROVIDE ONE FIRE RATED SELF CLOSING CABLE SLEEVE FOR EACH CABLE TRAY ENTERING TELECOMMUNICATIONS ROOM. CABLE SLEEVE TO BE HILTI CP653-100mm SPEED SLEEVE OR APPROVED EQUAL. TERMINATE CABLE TRAY AT TELECOMMUNICATIONS ROOM WALL. COORDINATE THIS LOCATION WITH SHARED SERVICES CANADA.
2. CABLE TRAY TO INCLUDE ALL TRAY, HORIZONTAL BENDS, TEES, ENDS, HANGERS AND SUPPORTS FOR A COMPLETE AND FINISHED INSTALLATION.



EXISTING VOICE/DATA RISER DIAGRAM

N.T.S.

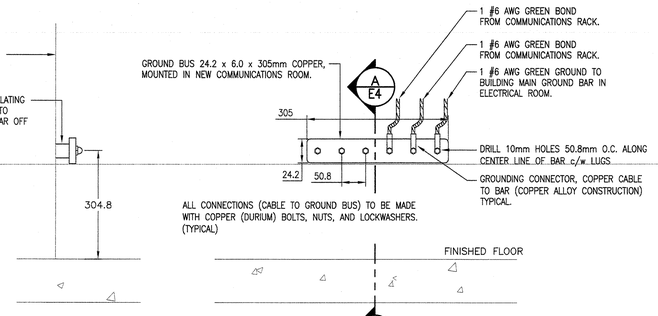


CABLE PASSTHRU

4 / E4

SCALE : N.T.S.

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS.



SECTION A / E4

SCALE : N.T.S.

ELEVATION

SCALE : N.T.S.

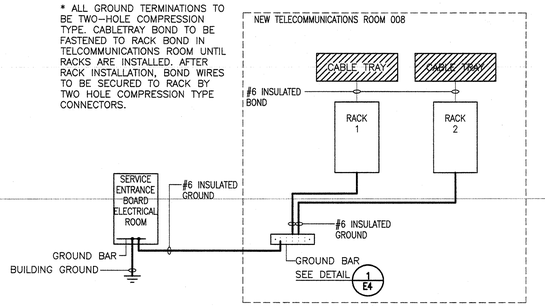
DETAIL - GROUNDING BAR 1 / E4

SCALE : N.T.S.

NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. COORDINATE LOCATION OF GROUND BAR WITH SHARED SERVICES CANADA (SSC)

* ALL GROUND TERMINATIONS TO BE TWO-HOLE COMPRESSION TYPE. CABLETRAY BOND TO BE FASTENED TO RACK BOND IN TELCOMMUNICATIONS ROOM UNTIL RACKS ARE INSTALLED. AFTER RACK INSTALLATION, BOND WIRES TO BE SECURED TO RACK BY TWO HOLE COMPRESSION TYPE CONNECTORS.



GROUNDING SCHEMATIC

2 / E4

SCALE : N.T.S.

GROUNDING NOTE

TELECOMMUNICATIONS GROUNDING BUS BAR SHALL BE 6mm D x 102mm W x 610 mm LONG COPPER BUS C/W NECESSARY BOLT-ON LUGS. THE BUS BAR SHALL BE INSULATED FROM THE SUPPORT BY 50mm GLASS INSULATORS. MOUNT ADJACENT TO COMMUNICATIONS RACK.

GENERAL NOTES:
- CONNECTIONS OF BONDING CONDUCTORS TO THE TELECOMMUNICATIONS BONDING BACKBONE AND GROUNDING BUSES SHALL BE MADE USING GROUND LUGS.
- ALL BOND CONDUCTORS SHALL BE INSULATED.
- INSTALLATION OF TELECOMMUNICATIONS GROUNDING SHALL COMPLY WITH CSA STANDARD T527-94 "GROUNDING AND BONDING FOR TELECOMMUNICATIONS IN COMMERCIAL BUILDINGS".

Public Works and Government Services Canada / Travaux Publics et Services gouvernementaux Canada

revisions		date
0	ISSUED FOR TENDER	JULY 30 2014

project / projet

RENOVATIONS TO SERVICE CANADA ESDC/EDSC 680 MAIN ST. WOODSTOCK, NB

drawing / dessin

NEW CABLE TRAY LAYOUT AND LAN ROOM GROUNDING BAR DETAIL

designed	K. WOLFE
date	APRIL 2014
drawn	K. WOLFE
date	APRIL 2014
approved	
date	July 30/14
Tender	B.B. LeBlanc 2014-08-11
PWGSC Project Manager	Administrateur de projets TPSGC
project number	R.072336.001
drawing no.	E4

PWGSC B1 (2004)

E-DRM/GDD-E: 453713 Version 1