N

PROPOSED RETAINING WALL TO BE CONSTRUCTED OUT OF 6"X6" TREATED LUMBER AND BACKFILLED WITH 20mm MINUS COMBINED CRUSHED AGGREGATE

CONTRACTOR TO PLACE 1-1.5m x 1.5m SV C/W CIRCULAR LID

SV# 315

area that needs to be protected

CONTRACTOR TO PLACE 3-100mm DUCTS AT POLE POLE PILASTER TO BE 300mm ABOVE GRADE

SEE CROSSING DETAIL

POLE 1 DETAIL
NTS

EXISTING OUTLET TO REMAIN

RELOCATE BUS BAY

EDGE OF ASPHALT TAPER 16m

LADNER TRUNK RD.

TIE TO EXISTING DITCH

EXISTING DITCH BOTTOM

450mm CONC. STM.

250mm WATER O/S UNKNOWN

EDGE OF B/T

CONTRACTOR TO STUB 2-100mm PVC DUCTS (4&5) 1.0m PAST BEND

80TH ST.

168mm GAS IP O/S UNKNOWN

300mm WATER O/S UNKNOWN

350mm WATER O/S UNKNOWN

DUCTS 1-3 TO POLE #3

DUCTS 6-8 TO POLE #1

WEST WALL LOOKING WEST

SV 315 DETAIL
(1.5m x 1.5m SERVICE VAULT)
- NTS -

SECTION A-A

FINISHED GRADE

1.3m MIN. COVER

TP/IP GAS

300mm MIN. CLEARANCE.

TELUS DUCTS AS REQUIRED.

TRUNK PRESSURE GAS CROSSING DETAIL
- NTS -

P/L

CONTRACTOR TO PLACE 3-100mm DUCTS AT POLE POLE PILASTER TO BE 300mm ABOVE GRADE

3.00m +/-

POLE 3 DETAIL
NTS

AS CONSTRUCTED
LU BEVACQUA APRIL 25, 07

1:250
10 8 6 4 2 0 10 20 Metres
20 0 20 40 60 Feet

20mm

CONCRETE FILL

PLAN VIEW

RESTORATION TO MUNICIPAL STANDARDS
AS SPEC'D
EXISTING PAVEMENT
GRADE
BACKFILL AS SPEC'D
200mm MIN CUTBACK
WARNING TAPE 300-400mm ABOVE DUCT BANK
DIRECT BURIED MATERIAL AS SPEC'D
DUCTS AS SPEC'D
SEE NOTE 3 (CONTRACTOR NOTES)
150mm
75mm

TYPICAL TRENCH BACKFILL DETAILS
- NTS -

3/8" x 2" LAG SCREWS/CONCRETE INSERTS
CAP
50mm
300mm FROM TOP OF CONCRETE
GRADE
TELUS SUPPLIED FIBERGLAS PILASTER FORM
SECTION OF STRAIGHT PVC DB2 CONDUIT
50mm MIN CONCRETE ENCASEMENT AROUND DUCT
2 PLY 4 MIL POLY OVER THE ENTIRE CONTACT AREA OF THE POLE
1m RADIUS 90 DEGREES MANUFACTURED BEND PVC DB2 CONDUIT
1.2m MIN DEPTH
COUPLING

ELEVATION VIEW

TYPICAL PILASTER DETAIL
- NTS -

50 25

DIRECT BURIED | CONCRETE ENCASED | DIRECT BURIED BUNDLING

DIMENSIONS 100 mm P.V.C. DUCTS	NO. OF DUCTS	DIRECT BURIED (mm)	CONC. ENCASE (mm)	DIRECT BURIED BUNDLING
○○○○○○○○○○	10	1520	1395	1050
○○○○○○○○○	9	1365	1265	945
○○○○○○○○	8	1210	1130	840
○○○○○○○	7	1050	1000	735
○○○○○○	6	895	870	630
○○○○○	5	735	735	525
○○○○	4	580	605	420
○○○	3	420	470	315
○○	2	265	340	215
○	1	-	210	105

DEVELOPERS NOTES:

ISSUE: 2000/02/16

1. CONTACT TELUS 10 DAYS BEFORE PROJECT START TO ARRANGE PICKUP LOCATION OF TELUS SUPPLIED MATERIAL. LOWER MAINLAND EAST PHONE 604 453-2038 LOWER MAINLAND WEST PHONE 604 453-2037
2. CONTRACTOR TO CONTACT THE APPROPRIATE GAS COMPANY 24 HOURS PRIOR TO STARTING WORK.
3. CONTACT CITY/MUNICIPAL WORKS INSPECTOR 48 HOURS PRIOR TO STARTING JOB.
4. CONTACT TELUS FOR INSPECTION 48 HOURS PRIOR TO STARTING JOB. PHONE 604 436-8482
5. INSTALLATION TO BE AS PER TELUS SPECIFICATION NO. 6820 (ISSUE #5, 1992) AND/OR SPECIFICATION NO. 6803 (ISSUE #16, 1994)
6. MAINWAY DUCT IS TYPE DB.II (ORANGE) P.V.C.
7. ALL SERVICE DUCTS ARE TO BE 50mm TYPE 700 (ORANGE) UNLESS OTHERWISE NOTED.
8. ALL EXCAVATION BACKFILLING AND RESTORATION IS TO BE CARRIED OUT IN ACCORDANCE WITH CITY/MUNICIPAL M.O.T.H. SPECIFICATION TO THE SATISFACTION OF THE APPROVING AUTHORITY.
9. SERVICE BOX LID TO BE SET AT FINAL GRADE.
10. ALL STUBBED OFF SERVICE DUCTS OR MAINWAY DUCTS TO BE CAPPED AND MARKED WITH 2 X 4 PAINTED ORANGE AND INSTALLED AT END OF DUCT.
11. DRAINS TO BE INSTALLED IN MANHOLES, SERVICE VAULTS, SERVICE BOXES, AND/OR DUCTS AT LATERAL POLES AS REQUIRED, TO PREVENT SURCHARGING. CONTRACTOR TO COORDINATE WITH TELUS INSPECTOR FOR INSTALLATION.
12. ALL MAINWAY DUCTS ARE TO BE MANDRELLED AFTER BACKFILL AND COMPACTION ARE COMPLETE, USING TELUS APPROVED MANDRELL.
13. ALL CHANGES IN DIRECTION OF MAINWAY DUCT REQUIRING MANUFACTURED BENDS SHALL BE CONCRETE ENCASED.
14. PLACE 3.0mm BRAIDED NYLON CORD IN ALL MAINWAY AND SERVICE DUCTS.
15. TELUS FORCES TO BREAK INTO EXISTING SERVICE BOX (ES) CONTACT TELUS INSPECTOR 48 HOURS PRIOR, TO COORDINATE.
16. WHERE FIBERGLASS SERVICE BOXES ARE USED, CONTRACTOR TO USE A SILICON BASED CAULKING TO SEAL DUCT ENTRY INTO BOX.
17. ALL DIRECT BURIED SYSTEMS 2-WAY AND LARGER TO BE BUNDLED AND STRAPPED.
18. PLACE CONDUIT IN JOINT TRENCH WITH POWER COMPANY WITH A MINIMUM COVER OF 0.76m UNLESS OTHERWISE NOTED.
19. THE LOCATION OF ALL EXISTING UTILITIES INCLUDING UNDERGROUND SURFACE AND OVERHEAD UTILITIES ARE NOT GUARANTEED NOR IS IT GUARANTEED THAT ALL UTILITIES WHICH MAY BE ENCOUNTERED ARE SHOWN. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING ALL THE UTILITIES AND PAYING FOR ANY DAMAGE RESULTING FROM HIS ENCOUNTERING THEM.
20. ORANGE TELUS MARKER TAPE TO BE PLACED ON CENTERLINE OF DUCT BANK @ 300mm BELOW FINAL GRADE.
21. FOR CABLE TROUBLE OR REPAIR INFORMATION, CONTACT TELUS @ 611.

REFERENCE DRAWINGS

	SA-100035	TYPE 'H' M.H. O.D. 3.40m X 1.90m X 2.0HR
	SA-100036	TYPE 'J' M.H. O.D. 4.40m X 2.20m X 2.0HR
	SA-100037	TYPE 'K' M.H. O.D. 4.40m X 2.50m X 2.0HR
	SA-100038	TYPE 'L' M.H. O.D. 5.30m X 2.50m X 2.0HR
	SA-100039	TYPE 'T' TRIANGULAR JUNCTION M.H. - MAIN O.D. 4.10m X 4.10m X 2.0HR
	SA-100040	TYPE 'C-2' TRIANGULAR M.H. - MAIN O.D. 3.40m X 3.40m X 2.0HR
	SA-100041	TYPE 'C-3' TRIANGULAR M.H. - MAIN O.D. 4.00m X 4.00m X 2.0HR
	SA-100076	PRECAST MINI M.H. 2102 O.D. 2.37m X 1.19m X 2.0mHR
	SA-100083	PRECAST M.H. PLMH 3152 O.D. 3.31m X 1.81m X 2.0HR
	SA-100084	PRECAST M.H. PLMH 4162 O.D. 4.32m X 1.88m X 2.0HR
	SA-100033	SPEC. SHEET - M.H. REINFORCING STEEL
X	SA-100034	TYPICAL METHOD OF LAYING DUCT BANK
	SA-100024	SUMP C/W BACKWATER VALVE
	SA-100010	INSTALLATION-BACKWATER VALVE IN M.H. WALL
	SA-100030	POLE PILASTER DETAIL
	SA-100051	F.R.P. SPLICE BOX
	SA-100016	SAC PAD DETAIL (VANCOUVER AREA)
	SA-100014	SAC PAD DETAIL (OTHER AREAS)
	SA-100074	SAC PAD DETAIL (5400X & 2700X)
	SA-100080	1.2m X 1.2m SERVICE VAULT
X	SA-100001	1.5m X 1.5m SERVICE VAULT
	SA-100003	TYPE 5686 SERVICE BOX
	SA-100092	CONTROLLED ENVIRONMENT CABINET (WIC)

UTILITY LEGEND

- T — EXISTING TELUS
- O — OIL LINE
- E — ELECTRICAL UTILITY
- SS — SANITARY SEWER
- SD — DRAINAGE SEWER
- W — WATER
- G — GAS UTILITY
- SL — STREET LIGHTING
- FA — FIRE ALARM
- SH — STEAM HEATING
- C — CULVERT
- TV — CATV UTILITY
- OC — OTHER COMMUNICATIONS
- ○ — POLE
- [K] — ELECTRICAL KIOSK
- PROPOSED DUCT
- CONCRETE ENCASED
- PROPOSED CONCRETE SERVICE BOX
- PROPOSED (SERVICE VAULT)
- PROPOSED MANHOLE

TELUS™

CONSTRUCTION	
REV.	DESCRIPTION:
REV.	DESCRIPTION:
REV.	DESCRIPTION:
REV.	DESCRIPTION:
REV.	DESCRIPTION:
REV.	DESCRIPTION:
REV.	DESCRIPTION:

PERMIT	
SUBMITTED DATE:	
RE-SUB DATE:	
RE-SUB DATE:	
APPROVED:	
DATE:	
AS CONSTRUCTED DATE:	
CONTRACTOR:	

DESIGN: R. KIRK	DR: RK
PH: 604 453-2051	SCALE: AS SHOWN
	DATE: 2006/12/05
ASSOCIATED DRAWINGS	
2205261P1-1	
REF: LDNR	

THE WORKS PROPOSED ON THIS DRAWING SHALL AT ALL TIMES REMAIN THE PROPERTY OF TELUS

PROPOSED UG CONSTRUCTION
ON LADNER TRUNK RD. AND 80TH AVE.
CORPORATION OF DELTA
TERASEN GAS

2205261U1-1
SHEET 1 OF 1

SYSTEM NAME:

TELUS FIELD OPERATIONS - ICGS

A1

<USERNAME> <FILEABBREV> <TIME> <DATE>

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