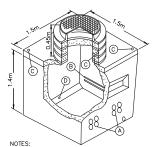
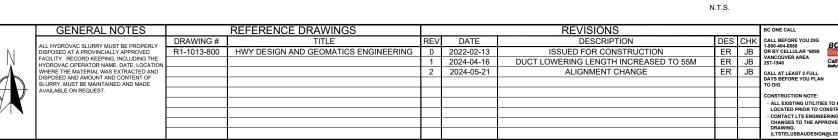


## TYPICAL TRENCH **BACKFILL DETAILS**



- 1. GROUT ALL JOINTS, DUCTS, AND DRAIN ENTRANCES. 2 VAULT TO BE SET ON 150mm OF -20mm MULCH OR SAND. IN WET CONDITIONS 150mm DRAIN ROCK.
- 3. C/W UNISTRUT INSTALLED 4. ADD CONCRETE EXTENSION RINGS AS REQ'D.
- A. 4-100mm TERMINATORS

#### 1.5x1.5 MH DETAIL



## DISCLAIMER:

- THE DRAWING IS PROJECT SPECIFIC AND PROPERTY OF TELUS. THE DRAWING SHALL NOT BE USED WITHOUT THE CONSENT OF TELUS
- LTS DOES NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE CONTENTS WHETHER SHOWN OR OMITTED FROM THIS DRAWING BEYOND THE REQUIREMENTS LISTED IN APPROVING AUTHORITY REQUIREMENTS.
- THIS DRAWING SHALL BE USED IN CONJUNCTION WITH IFC DRAWINGS. CONSTRUCTION SHALL VERIFY COMPLETENESS OF ALL POWER UTILITY AND TELUS MAKE READY BEFORE LASHING NEW CABLES

### CONSTRUCTION NOTES:

- ALL WORKMANSHIP MUST BE IN ACCORDANCE WITH THE APPLICABLE EDITION OF THE TELUS OUTSIDE PLANT PRACTICE & STANDARDS (TOPPS).
- ALL STRANDS TO CONFORM TO CSA GRADE 1300. ALL STRANDS INSTALLED MUST BE SIZE 8 (8.4MM
- DIAMETER) UNI ESS NOTED ALL DOWN GUYS INSTALLED MUST BE SIZE 10 (10.7MM DIAMETER) W/ JOHNNY BALL STRAIN INSULATOR UNLESS NOTED.
- ALL ANCHORS INSTALLED MUST BE 25MM (1 IN) ROD, 0.25 SQ-M (400 SQ IN) CROSS-PLATE WITH MINIMUM SHAFT CAPACITY OF 160 KN (36M) UNLESS
- FOR SINGLE GUY ATTACHMENTS ONLY, CROSS-PLATE ANCHORS MAY BE SUBSTITUTED WITH PISA 25MM (1 IN) ROD, (10 IN) DOUBLE HELIX ANCHOR WITH MINIMUM SHAFT CAPACITY OF 138 KN (31 M).
- YELLOW DOWNHAUL GUARDS SHALL BE INSTALLED AS PER TOPPS 1.1.1.11, JUB024.

LEGEND

PROPOSED SERVICE BOX / FDH

PROPOSED SERVICE VAULT

PROPOSED MANHOLE

PROPOSED PEDESTAL

PROPOSED CONDUIT

(DIRECTIONAL DRILL)

PROPOSED DROP CONDUIT

(OPEN TRENCH) PROPOSED CONDUIT

WATER MAIN

SEWER MAIN

STORM MAIN

GAS MAIN

TEL DUCTS

CATV DUCTS

POWER DUCTS **PIPELINE** 

STREETLIGHT

BACK OF CURB

ABANDONED UTILITY

**EDGE OF PAVEMENT** 

POLE (W/ ANCHOR)

SANITARY MAIN

POLE LINE EXTENSION BOLT STRAP TO CONFORM TO TOPPS 1.1.2.4.5

 $\times$ 

ATTACHING GUYS (POLE AND RODS) TO CONFORM TO TOPPS 1.1.1.4

# **CONSTRUCTION NOTES**

- ELEVATIONS REFER TO
- CONDUIT GRADE ON PROFILE IS APPROXIMATE ONLY. FINISHED GRADE WILL BE SUBJECT TO LOCATION OF EXISTING UNDERGROUND LITTIES
- MINIMUM COVER CONDUIT 1.5m ALL SECT EXCEPT WHERE OTHERWISE NOTED. MANHOLE ROOF ALL SECTIONS 0.46m
- ALL DUCTS TO BE 100mm P.V.C. DB II (ORANGE) UNLESS OTHERWISE NOTED.
- ALL MANUFACTURED BENDS TO BE 0.91m RADIUS
- ALL CONCRETE PILASTERS TO BE \_\_\_\_\_ 0.30m\_ ABOVE GRADE UNLESS OTHERWISE NOTED.
- CONTRACTOR IS TO PROVE THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND SERVICES AFFECTED BY CONSTRUCTION BY M-SCOPE, HAND EXCAVATION OR BC ONE
- FOR CABLE TROUBLE OR REPAIR INFORMATION, CONTACT
- TEMPORARY/PERMANENT RESTORATION IN ALL PAVED/SIDEWALK AREAS TO BE DONE IN ACCORDANCE WITH ALL APPROVING AUTHORITIES SPECIFICATIONS AND
- PERMANENT SIDEWALK AND CURB REPAIRS TO BE DONE BY CONTRACTOR . PERMANENT ROAD REPAIRS TO BE DONE BY CONTRACTOR.
- PERMANENT BOULEVARD RESTORATION TO BE DONE BY CONTRACTOR.
- 12. ALL LANDSCAPE RESTORATION IN LAWN BOULEVARDS MUST BE DONE BY USING SUITABLE GRASS SOD.
- 13. CONTRACTOR TO CONTACT THE APPROPRIATE GAS COMPANY RECORDS DEPARTMENT 24 HOURS PRIOR TO STARTING WORK.
- CONTRACTOR TO CONTACT THE CITY/MUNICIPAL WORKS INSPECTOR 48 HOURS PRIOR TO STARTING WORK.
- 15. CONTRACTOR TO CALL BC ONE CALL (FOR BC) OR AB ONE CALL (FOR ALBERTA) 48 HOURS PRIOR TO DIGGING.
- ALL BACKFILL MATERIAL AND COMPACTION TO BE IN ACCORDANCE WITH ALL APPROVING AUTHORITIES
- 17. ALL DIRECT BURIED SYSTEMS 2-WAY AND LARGER TO BE BUNDLED AND STRAPPED.
- 18. TELUS CONTRACTOR TO SUPPLY AND PLACE AN ENCLOSED PLYWOOD BOX OVER SAC PAD DUCTS AND SECURED TO
- 19. BREAK OUT EXISTING CONCRETE ENCASED DUCTS: ANY JACK-HAMMERING OR USE OF POWER TOOLS TO BE CARRIED OUT BY CONTRACTOR. ALL HAND STRIPPING OF DUCTS, BREAKING OF DUCTS AND/OR HANDLING OF CABLES TO BE DONE BY TELUS FORCES.
- 20. EXISTING CONDUIT TO BE RELOCATED IF REQUIRED TO ENSURE SPECIFIED ENTRANCE LOCATIONS INTO MANHOLE/VAULT. CONTRACTOR TO PROVIDE EXCAVATION, BACK-FILLING AND RESTORATION IF RELOCATION BECOMES
- 21. ORANGE TELUS MARKER TAPE TO BE PLACED ON CENTERLINE OF DUCT BANK @ 300mm BELOW FINAL GRADE.
- 22. CONTACT TELUS 10 DAYS BEFORE PROJECT START TO ARRANGE PICKUP LOCATION OF TELUS SUPPLIED MATERIAL. BC: KATHY MIDWOOD (Kathy.Midwood@Telus.com) at 604-453-2037
- 23. SUBGRADE & DIRECT BURIED MATERIAL WHERE APPLICABLE SHALL BE 20mm MINUS CRUSHED AGGREGATE.
- 24. BACKFILL MATERIAL SHALL BE: JAFILL MATERIAL SHALL BE:
  IN ROADWAYS/TRAVELLED AREAS **20mm MINUS**IN SIDEWALK/TRAVELLED AREAS **20mm MINUS**IN BOULEVARD/UNTRAVELLED AREAS **20mm MINUS**
- 25. CONTRACTOR TO PULL IN A TELUS SUPPLIED MEASURING TAPE THRU ONE DUCT IN EACH RUN AFTER MANDRELLING, LOCATION TO BE DETERMINED BY TELUS.
- 26. MINIMUM SEPARATION FROM ALL UTILITIES TO BE 300mm.
- 27. ALL DIMENSIONS IN mm UNLESS OTHERWISE NOTED

ONECALL TICKET NO: 20234202180

ACK CHEN CHEN@GOV.BC.CA DESIGNER SENIOR DESIGNER IOHN BARR

PERMIT DESIGN FOR THE DUCT RELOCATION/REBUILD HWY 1 WEST OF MT. LEHMAN RD, CITY OF ABBOTSFORD MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE

BC GROWTH AND SUSTAINMENT

DRAWING # 2918290 U DATE: 2024-05-21 JIRA ID GS-111039 SHEET: 1 PROJECT # P-2023290.01 COID FTLY TOTAL SHEETS: 3 REVISION: 2

THE WORKS PROPOSED ON THIS DRAWING SHALL AT ALL TIMES REMAIN THE PROPERTY OF TELUS. ALL CONS TRUCTION, INSTALLATION AND TESTING TO BE PERFORMED IN ACCORDANCE WITH RELEVANT TELUS OUTSIDE PLANT STANDARDS AND PRACTICES IN EFFECT ON DATE OF STATEMENT OF WORK OR AGREED TO THEREA

