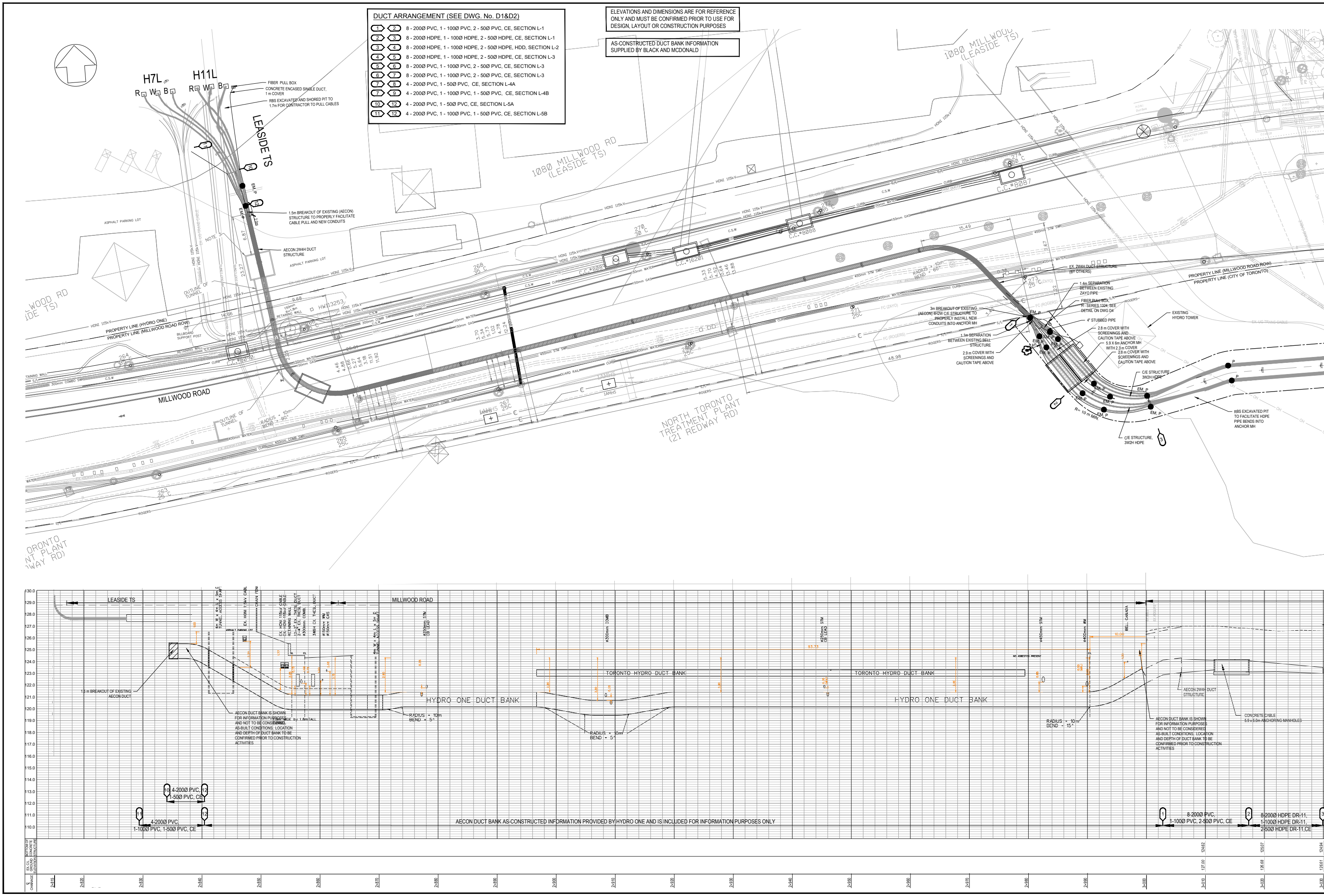
DUCT ARRANGEMENT (SEE DWG. No. D1&D2)

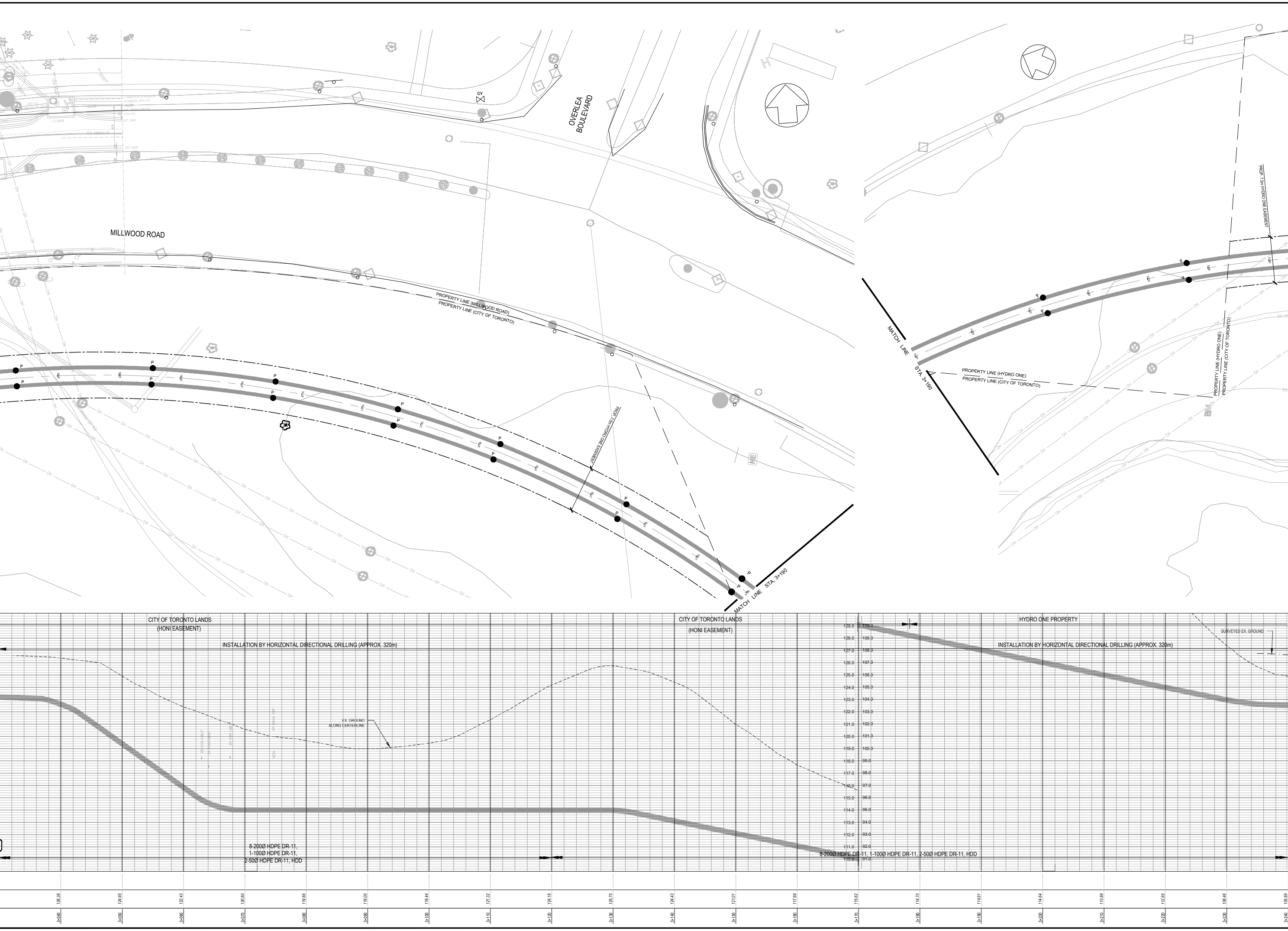
1	2	8 - 200Ø PVC, 1 - 100Ø PVC, 2 - 50Ø PVC, CE, SECTION L-1
2	3	8 - 200Ø HDPE, 1 - 100Ø HDPE, 2 - 50Ø HDPE, CE, SECTION L-1
3	4	8 - 200Ø HDPE, 1 - 100Ø HDPE, 2 - 50Ø HDPE, HDD, SECTION L-2
4	5	8 - 200Ø HDPE, 1 - 100Ø HDPE, 2 - 50Ø HDPE, CE, SECTION L-3
5	6	8 - 200Ø PVC, 1 - 100Ø PVC, 2 - 50Ø PVC, CE, SECTION L-3
6	7	8 - 200Ø PVC, 1 - 100Ø PVC, 2 - 50Ø PVC, CE, SECTION L-3
7	8	4 - 200Ø PVC, 1 - 50Ø PVC, CE, SECTION L-4A
7	9	4 - 200Ø PVC, 1 - 100Ø PVC, 1 - 50Ø PVC, CE, SECTION L-4B
10	12	4 - 200Ø PVC, 1 - 50Ø PVC, CE, SECTION L-5A
11	12	4 - 200Ø PVC, 1 - 100Ø PVC, 1 - 50Ø PVC, CE, SECTION L-5B

ELEVATIONS AND DIMENSIONS ARE FOR REFERENCE ONLY AND MUST BE CONFIRMED PRIOR TO USE FOR DESIGN, LAYOUT OR CONSTRUCTION PURPOSES

AS-CONSTRUCTED DUCT BANK INFORMATION SUPPLIED BY BLACK AND MCDONALD

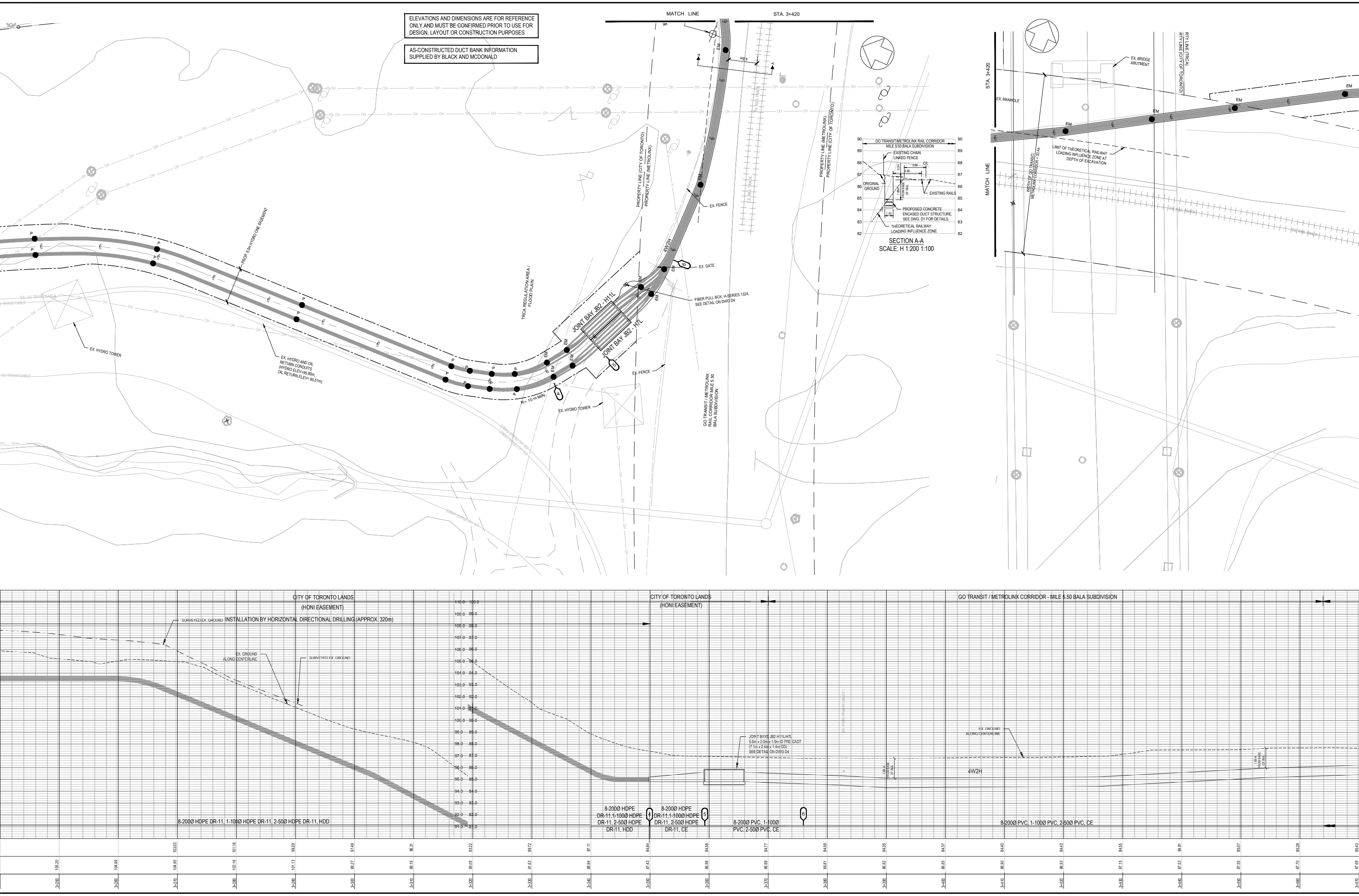


H7L
R W B
H11L
R W B
LEASIDE TS
FIBER PULL BOX
CONCRETE ENCASED SINGLE DUCT, 1 m COVER
RBS EXCAVATED AND SHORED PIT TO 1.7m FOR CONTRACTOR TO PULL CABLES
EM, P
1.5m BREAKOUT OF EXISTING (AECON) STRUCTURE TO PROPERLY FACILITATE CABLE PULL AND NEW CONDUITS
AECON 2W4H DUCT STRUCTURE
ASPHALT PARKING LOT
NOTE 3
OUTLINE OF TUNNEL
HONI 115kV
EX. UG TRANS CABLE
PROPERTY LINE (HYDRO ONE)
PROPERTY LINE (MILLWOOD ROAD ROW)
BILLBOARD SUPPORT POST
RETAINING WALL
MILLWOOD ROAD
RADIUS = 10m BEND = 90°
RADIUS = 10m BEND = 60°
1080 MILLWOOD RD (LEASIDE TS)
NORTH TORONTO TREATMENT PLANT (21 REDWAY RD)
C.C.#8087
C.C.#8088
C.C.#1620
C.C.#8089
HW113253
150mm WATER
150mm GAS
400mm WATER
450mm STM SWR
300mm COMB SWR
FC (ZAYO)
FC (ROGERS)
CURB
15.49
48.98
9.68
EX. 2W4H DUCT STRUCTURE (BY OTHERS)
1.4m SEPARATION BETWEEN EXISTING ZAYO PIPE
FIBER PULL BOX, H - SERIES 1324, SEE DETAIL ON DWG D4
4" STUBBED PIPE
2.8 m COVER WITH SCREENINGS AND CAUTION TAPE ABOVE
5.9 X 6m ANCHOR MH WITH 2.3 m COVER
3m BREAKOUT OF EXISTING (AECON) 4H2W C/E STRUCTURE TO PROPERLY INSTALL NEW CONDUITS INTO ANCHOR MH
1.1m SEPARATION BETWEEN EXISTING BELL STRUCTURE
2.9 m COVER WITH SCREENINGS AND CAUTION TAPE ABOVE
EXISTING HYDRO TOWER
PROPERTY LINE (MILLWOOD ROAD ROW)
PROPERTY LINE (CITY OF TORONTO)
C/E STRUCTURE 3W2H HDPE
C/E STRUCTURE, 3W2H HDPE
R= 10 m MIN.
RBS EXCAVATED PIT TO FACILITATE HDPE PIPE BENDS INTO ANCHOR MH
LEASIDE TS
MILLWOOD ROAD
1.5 m BREAKOUT OF EXISTING AECON DUCT
AECON DUCT BANK IS SHOWN FOR INFORMATION PURPOSES AND NOT TO BE CONSIDERED AS-BUILT CONDITIONS. LOCATION AND DEPTH OF DUCT BANK TO BE CONFIRMED PRIOR TO CONSTRUCTION ACTIVITIES
HYDRO ONE DUCT BANK
TORONTO HYDRO DUCT BANK
RADIUS = 10m BEND = 5°
RADIUS = 10m BEND = 15°
NO ASBESTOS PRESENT
AECON 2W4H DUCT STRUCTURE
CONCRETE CABLE 5.9 x 6.0m ANCHORING MANHOLES
4-200Ø PVC, 1-50Ø PVC, CE
4-200Ø PVC, 1-100Ø PVC, 1-50Ø PVC, CE
8-200Ø PVC, 1-100Ø PVC, 2-50Ø PVC, CE
8-200Ø HDPE DR-11, 1-100Ø HDPE DR-11, 2-50Ø HDPE DR-11,CE
AECON DUCT BANK AS-CONSTRUCTED INFORMATION PROVIDED BY HYDRO ONE AND IS INCLUDED FOR INFORMATION PURPOSES ONLY
BOTTOM OF CONCRETE STRUCTURE
EX. C/L GROUND ELEVATION
℄ CHAINAGE
124.62
125.07
124.94
127.00
126.68
126.61
2+815
2+820
2+830
2+840
2+850
2+860
2+870
2+880
2+890
2+900
2+910
2+920
2+930
2+940
2+950
2+960
2+970
2+980
2+990
3+000
3+010
3+020
3+030


MILLWOOD ROAD
OVERLEA BOULEVARD
GV
PROPERTY LINE (MILLWOOD ROAD)
PROPERTY LINE (CITY OF TORONTO)
PROP. 7.5m HYDRO ONE EASEMENT
MATCH LINE STA. 3+190
PROPERTY LINE (HYDRO ONE)
PROPERTY LINE (CITY OF TORONTO)
PROPERTY LINE (HYDRO ONE)
PROPERTY LINE (CITY OF TORONTO)
PROP. 7.5m HYDRO ONE EASEMENT
P
OH
CITY OF TORONTO LANDS
(HONI EASEMENT)
INSTALLATION BY HORIZONTAL DIRECTIONAL DRILLING (APPROX. 320m)
EX. GROUND ALONG CENTERLINE
CITY OF TORONTO LANDS
(HONI EASEMENT)
HYDRO ONE PROPERTY
INSTALLATION BY HORIZONTAL DIRECTIONAL DRILLING (APPROX. 320m)
SURVEYED EX. GROUND
8-200Ø HDPE DR-11,
1-100Ø HDPE DR-11,
2-50Ø HDPE DR-11, HDD
8-200Ø HDPE DR-11, 1-100Ø HDPE DR-11, 2-50Ø HDPE DR-11, HDD
129.0 110.0
128.0 109.0
127.0 108.0
126.0 107.0
125.0 106.0
124.0 105.0
123.0 104.0
122.0 103.0
121.0 102.0
120.0 101.0
119.0 100.0
118.0 99.0
117.0 98.0
116.0 97.0
115.0 96.0
114.0 95.0
113.0 94.0
112.0 93.0
111.0 92.0
110.0 91.0
126.38
124.95
122.43
120.60
119.66
119.00
119.44
121.32
124.16
125.75
124.43
121.01
117.69
115.62
114.70
114.91
114.64
113.89
112.65
108.46
105.89
3+040
3+050
3+060
3+070
3+080
3+090
3+100
3+110
3+120
3+130
3+140
3+150
3+160
3+170
3+180
3+190
3+200
3+210
3+220
3+230
3+240

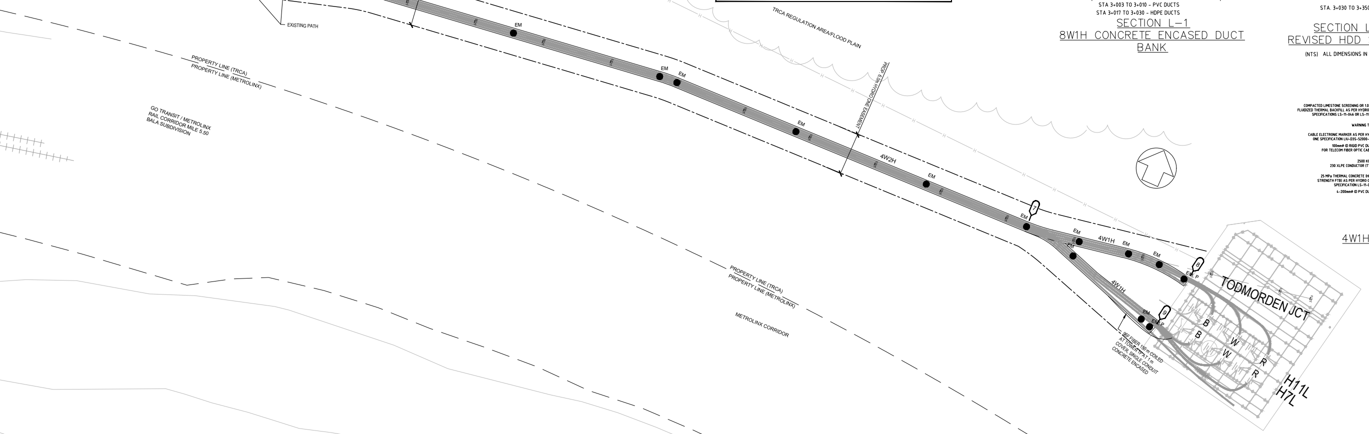
ELEVATIONS AND DIMENSIONS ARE FOR REFERENCE ONLY AND MUST BE CONFIRMED PRIOR TO USE FOR DESIGN, LAYOUT OR CONSTRUCTION PURPOSES

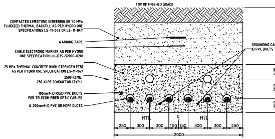
AS-CONSTRUCTED DUCT BANK INFORMATION SUPPLIED BY BLACK AND MCDONALD


MATCH LINE
STA. 3+420
PROPERTY LINE (CITY OF TORONTO)
PROPERTY LINE (METROLINX)
PROPERTY LINE (METROLINX)
PROPERTY LINE (CITY OF TORONTO)
EX. FENCE
EX. GATE
4W2H
FIBER PULL BOX, H-SERIES 1324, SEE DETAIL ON DWG D4
JOINT BAY JB2 - H11L
JOINT BAY JB2 - H7L
EX. FENCE
EX. HYDRO TOWER
R= 10 m MIN.
EX. HYDRO TOWER
EX. HYDRO AND OIL RETURN CONDUITS (HYDRO ELEV=95.80m; OIL RETURN ELEV= 95.51m)
PROP. 8.0m HYDRO ONE EASEMENT
TRCA REGULATION AREA / FLOOD PLAIN
GO TRANSIT / METROLINX RAIL CORRIDOR MILE 5.50 BALA SUBDIVISION
EX. UG TRANS CABLE
P
EM
OH
GO TRANSIT/METROLINX RAIL CORRIDOR
MILE 5.50 BALA SUBDIVISION
EXISTING CHAIN LINKED FENCE
C/L
3.66
4.80
0.3m
1.68m FROM BASE OF RAIL
ORIGINAL GROUND
EXISTING RAILS
PROPOSED CONCRETE ENCASED DUCT STRUCTURE. SEE DWG. D1 FOR DETAILS.
1.40
THEORETICAL RAILWAY LOADING INFLUENCE ZONE
90 89 88 87 86 85 84 83 82
SECTION A-A
SCALE: H 1:200 1:100
STA. 3+420
EX. MANHOLE
EX. BRIDGE ABUTMENT
RTY LINE (TRCA)
RTY LINE (CITY OF TORONTO)
MATCH LINE
LIMIT OF THEORETICAL RAILWAY LOADING INFLUENCE ZONE AT DEPTH OF EXCAVATION
WIDTH OF GO TRANSIT/ METROLINX CORRIDOR = 30.4±
CITY OF TORONTO LANDS
(HONI EASEMENT)
INSTALLATION BY HORIZONTAL DIRECTIONAL DRILLING (APPROX. 320m)
SURVEYED EX. GROUND
EX. GROUND ALONG CENTERLINE
SURVEYED EX. GROUND
CITY OF TORONTO LANDS
(HONI EASEMENT)
GO TRANSIT / METROLINX CORRIDOR - MILE 5.50 BALA SUBDIVISION
JOINT BAYS JB2 H11L/H7L 6.6m x 2.0m x 1.0m ID PRE-CAST (7.1m x 2.4m x 1.4m OD) SEE DETAIL ON DWG D4
EX. GROUND ALONG CENTERLINE
4W2H
110.0 100.0
109.0 99.0
108.0 98.0
107.0 97.0
106.0 96.0
105.0 95.0
104.0 94.0
103.0 93.0
102.0 92.0
101.0 91.0
100.0 90.0
99.0 89.0
98.0 88.0
97.0 87.0
96.0 86.0
95.0 85.0
94.0 84.0
93.0 83.0
92.0 82.0
91.0 81.0
8-200Ø HDPE DR-11, 1-100Ø HDPE DR-11, 2-50Ø HDPE DR-11, HDD
8-200Ø HDPE DR-11,1-100Ø HDPE DR-11, 2-50Ø HDPE DR-11, HDD
4
8-200Ø HDPE DR-11,1-100Ø HDPE DR-11, 2-50Ø HDPE DR-11, CE
5
8-200Ø PVC, 1-100Ø PVC, 2-50Ø PVC, CE
6
8-200Ø PVC, 1-100Ø PVC, 2-50Ø PVC, CE
103.03 101.16 99.29 97.49 96.31 93.22 89.72 87.11 84.84 84.58 84.77 84.59 84.35 84.37 84.40 84.43 84.55 84.81 85.07 85.28 85.43
105.20 104.99 104.95 103.16 101.13 99.27 98.16 95.05 91.63 88.94 87.43 86.98 86.89 86.81 86.82 86.85 86.90 86.93 87.15 87.53 87.55 87.70 87.68
3+250 3+260 3+270 3+280 3+290 3+300 3+310 3+320 3+330 3+340 3+350 3+360 3+370 3+380 3+390 3+400 3+410 3+420 3+430 3+440 3+450 3+460 3+470

DUCT ARRANGEMENT (SEE DWG. No. D1&D2)

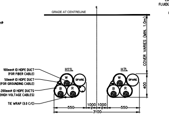
1	2	8 - 200Ø PVC, 1 - 100Ø PVC, 2 - 50Ø PVC, CE, SECTION L-1
2	3	8 - 200Ø HDPE, 1 - 100Ø HDPE, 2 - 50Ø HDPE, CE, SECTION L-1
3	4	8 - 200Ø HDPE, 1 - 100Ø HDPE, 2 - 50Ø HDPE, HDD, SECTION L-2
4	5	8 - 200Ø HDPE, 1 - 100Ø HDPE, 2 - 50Ø HDPE, CE, SECTION L-3
5	6	8 - 200Ø PVC, 1 - 100Ø PVC, 2 - 50Ø PVC, CE, SECTION L-3
6	7	8 - 200Ø PVC, 1 - 100Ø PVC, 2 - 50Ø PVC, CE, SECTION L-3
7	8	4 - 200Ø PVC, 1 - 50Ø PVC, CE, SECTION L-4A
7	9	4 - 200Ø PVC, 1 - 100Ø PVC, 1 - 50Ø PVC, CE, SECTION L-4B
10	12	4 - 200Ø PVC, 1 - 50Ø PVC, CE, SECTION L-5A
11	12	4 - 200Ø PVC, 1 - 100Ø PVC, 1 - 50Ø PVC, CE, SECTION L-5B


EM
4W2H
PROP. 6.0m HYDRO ONE EASEMENT
EXISTING PATH
TRCA REGULATION AREA/FLOOD PLAIN
PROPERTY LINE (TRCA)
PROPERTY LINE (METROLINX)
GO TRANSIT / METROLINX
RAIL CORRIDOR MILE 5.50
BALA SUBDIVISION
4W1H
TODMORDEN JCT
B
W
R
H11L
H7L
METROLINX CORRIDOR


TOP OF FINISHED GRADE
COMPACTED LIMESTONE SCREENING OR 1.0 MPa FLUIDIZED THERMAL BACKFILL AS PER HYDRO ONE SPECIFICATIONS LS-11-046 OR LS-11-047
WARNING TAPE
CABLE ELECTRONIC MARKER AS PER HYDRO ONE SPECIFICATION LIU-D3S-52000-0201
25 MPa THERMAL CONCRETE (HIGH STRENGTH FTB) AS PER HYDRO ONE SPECIFICATION LS-11-047
2500 KCMIL 230 XLPE CONDUCTOR (TYP.)
100mmØ ID RIGID PVC DUCTS FOR TELECOM FIBER OPTIC CABLES
8-200mmØ ID PVC OR HDPE DUCTS
GROUNDING CABLES IN 50mmØ ID PVC DUCTS
1000 MIN.
225
300
220
745
H11L
H7L
250
300
150
2000

STA 3+003 TO 3+010 – PVC DUCTS
STA 3+017 TO 3+030 – HDPE DUCTS

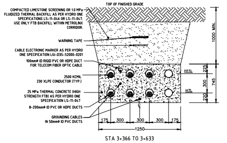
SECTION L–1
8W1H CONCRETE ENCASED DUCT BANK


GRADE AT CENTRELINE
COVER VARIES (MIN. 1.0m)
100mmØ ID HDPE DUCT (FOR FIBER CABLE)
50mmØ ID HDPE DUCT (FOR GROUNDING CABLE)
4-200mmØ ID HDPE DUCTS (HIGH VOLTAGE CABLES)
TIE WRAP (3.0 C/C)
H11L
H7L
W
SPARE
B
R
400
550
1000
3100

STA. 3+030 TO 3+350

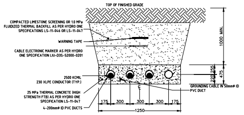
SECTION L–2
REVISED HDD SECTION

(NTS) ALL DIMENSIONS IN mm


TOP OF FINISHED GRADE
COMPACTED LIMESTONE SCREENING OR 1.0 MPa FLUIDIZED THERMAL BACKFILL AS PER HYDRO ONE SPECIFICATIONS LS-11-046 OR LS-11-047. USE ONLY FTB BACKFILL WITHIN METROLINX CORRIDOR.
WARNING TAPE
CABLE ELECTRONIC MARKER AS PER HYDRO ONE SPECIFICATION LIU-D3S-52000-0201
100mmØ ID RIGID PVC OR HDPE DUCT FOR TELECOM FIBER OPTIC CABLE
2500 KCMIL 230 XLPE CONDUCTOR (TYP.)
25 MPa THERMAL CONCRETE (HIGH STRENGTH FTB) AS PER HYDRO ONE SPECIFICATION LS-11-047
8-200mmØ ID PVC OR HDPE DUCTS
GROUNDING CABLES IN 50mmØ ID PVC DUCTS
H11L
H7L
1000 MIN.
225
300
220
745
175
300
1250

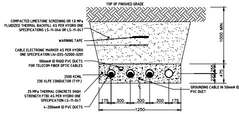
STA 3+366 TO 3+633

SECTION L–3
4W2H CONCRETE ENCASED DUCT BANK


TOP OF FINISHED GRADE
COMPACTED LIMESTONE SCREENING OR 1.0 MPa FLUIDIZED THERMAL BACKFILL AS PER HYDRO ONE SPECIFICATIONS LS-11-046 OR LS-11-047
WARNING TAPE
CABLE ELECTRONIC MARKER AS PER HYDRO ONE SPECIFICATION LIU-D3S-52000-0201
2500 KCMIL 230 XLPE CONDUCTOR (TYP.)
25 MPa THERMAL CONCRETE (HIGH STRENGTH FTB) AS PER HYDRO ONE SPECIFICATION LS-11-047
4-200mmØ ID PVC DUCTS
GROUNDING CABLE IN 50mmØ ID PVC DUCT
1000 MIN.
255
220
475
175
300
1250

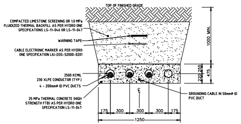
CIRCUIT H11L
STA 3+633 TO 3+658

SECTION L–4A
4W1H CONCRETE ENCASED DUCT BANK


TOP OF FINISHED GRADE
COMPACTED LIMESTONE SCREENING OR 1.0 MPa FLUIDIZED THERMAL BACKFILL AS PER HYDRO ONE SPECIFICATIONS LS-11-046 OR LS-11-047
WARNING TAPE
CABLE ELECTRONIC MARKER AS PER HYDRO ONE SPECIFICATION LIU-D3S-52000-0201
100mmØ ID RIGID PVC DUCTS FOR TELECOM FIBER OPTIC CABLES
2500 KCMIL 230 XLPE CONDUCTOR (TYP.)
25 MPa THERMAL CONCRETE (HIGH STRENGTH FTB) AS PER HYDRO ONE SPECIFICATION LS-11-047
4-200mmØ ID PVC DUCTS
GROUNDING CABLE IN 50mmØ ID PVC DUCT
1000 MIN.
175
300
1250

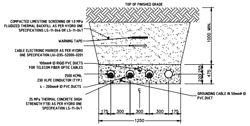
CIRCUIT H7L
STA 3+633 TO 3+658

SECTION L–4B
4W1H CONCRETE ENCASED DUCT BANK


TOP OF FINISHED GRADE
COMPACTED LIMESTONE SCREENING OR 1.0 MPa FLUIDIZED THERMAL BACKFILL AS PER HYDRO ONE SPECIFICATIONS LS-11-046 OR LS-11-047
WARNING TAPE
CABLE ELECTRONIC MARKER AS PER HYDRO ONE SPECIFICATION LIU-D3S-52000-0201
2500 KCMIL 230 XLPE CONDUCTOR (TYP.)
4 - 200mmØ ID PVC DUCTS
25 MPa THERMAL CONCRETE (HIGH STRENGTH FTB) AS PER HYDRO ONE SPECIFICATION LS-11-047
GROUNDING CABLE IN 50mmØ ID PVC DUCT
1000 MIN.
175
300
1250

CIRCUIT H11L
STA 2+833 TO 2+841

SECTION L–5A
4W1H CONCRETE ENCASED DUCT BANK


TOP OF FINISHED GRADE
COMPACTED LIMESTONE SCREENING OR 1.0 MPa FLUIDIZED THERMAL BACKFILL AS PER HYDRO ONE SPECIFICATIONS LS-11-046 OR LS-11-047
WARNING TAPE
CABLE ELECTRONIC MARKER AS PER HYDRO ONE SPECIFICATION LIU-D3S-52000-0201
100mmØ ID RIGID PVC DUCTS FOR TELECOM FIBER OPTIC CABLES
2500 KCMIL 230 XLPE CONDUCTOR (TYP.)
4 - 200mmØ ID PVC DUCTS
25 MPa THERMAL CONCRETE (HIGH STRENGTH FTB) AS PER HYDRO ONE SPECIFICATION LS-11-047
GROUNDING CABLE IN 50mmØ ID PVC DUCT
1000 MIN.
175
300
1250

CIRCUIT H7L
STA 2+829 TO 2+841

SECTION L–5B
4W1H CONCRETE ENCASED DUCT BANK

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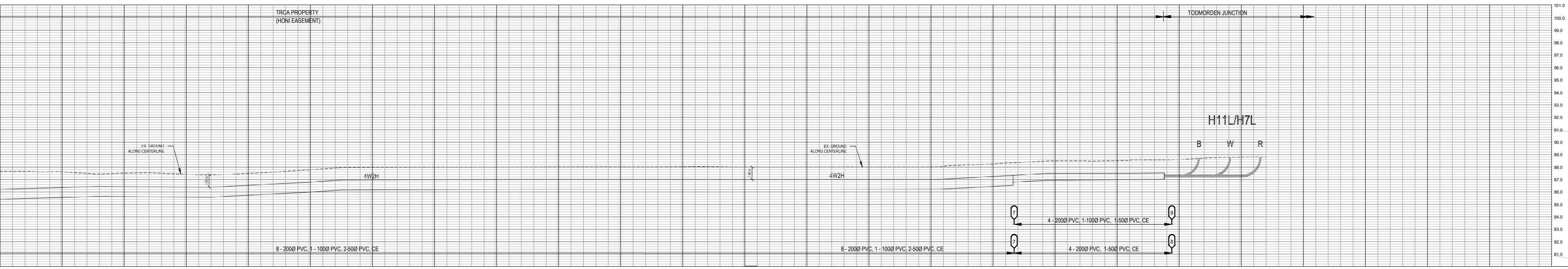
AS-CONSTRUCTED DUCT BANK INFORMATION SUPPLIED BY BLACK AND MCDONALD


TRCA PROPERTY
(HONI EASEMENT)
TODMORDEN JUNCTION
101.0
100.0
99.0
98.0
97.0
96.0
95.0
94.0
93.0
92.0
91.0
90.0
89.0
88.0
87.0
86.0
85.0
84.0
83.0
82.0
81.0
H11L/H7L
B
W
R
EX. GROUND ALONG CENTERLINE
4W2H
7
9
8
4 - 200Ø PVC, 1-100Ø PVC, 1-50Ø PVC, CE
4 - 200Ø PVC, 1-50Ø PVC, CE
8 - 200Ø PVC, 1 - 100Ø PVC, 2-50Ø PVC, CE

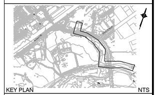
℄ CHAINAGE	EX. C/L GROUND ELEVATION	BOTTOM OF CONCRETE STRUCTURE
3+480	87.65	85.57
3+490	87.53	85.64
3+500	87.44	85.61
3+510	87.50	85.74
3+520	87.80	86.00
3+530	88.00	86.19
3+540	88.01	86.20
3+550	88.02	86.22
3+560	88.04	86.23
3+570	88.04	86.23
3+580	88.05	86.22
3+590	88.03	86.22
3+600	88.03	86.22
3+610	88.03	86.23
3+620	88.04	86.24
3+630	88.26	86.46
3+640	88.52	86.96
3+650	88.53	87.00
3+660	88.62	
3+670	88.81	
3+674	88.80	

ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED

	REVISIONS	BY	DATE	APPR.
1.	AS–RECORDED DRAWINGS	J.C.	2020–02–12	

LEGEND

——	EXISTING FRONT OF CURB
- - - -	EASEMENT LIMITS
— — —	PROPERTY LINE
B	EXISTING BELL
G	EXISTING GAS
FC	EXISTING FIBER CABLE CONDUIT
HONI	EXISTING HYDRO ONE LINE
THES	EXISTING TORONTO HYDRO LINE
H	EXISTING ELECTRIC CABLE/ CONDUIT
SL	EXISTING STREET LIGHT CABLE
T	EXISTING TELE COMMUNICATION
SAN	EXISTING SANITARY SEWER
STM	EXISTING STORM SEWER
COMB	EXISTING COMBINED SEWER
WM	EXISTING WATERMAIN
	TOP OF SLOPE
Ⓜ	EX. MONITORING WELL
Ⓦ	EX. UTILITY HANDWELL
BHC	BEGINNING OF HORIZONTAL CURVE
EHC	END OF HORIZONTAL CURVE
BVC	BEGINNING OF VERTICAL CURVE
EVC	END OF VERTICAL CURVE
L	LENGTH OF CURVE
△	CHANGE IN DIRECTION (DELTA)
R	RADIUS OF CURVE AT CENTRE OF DUCT
● P	POLE MARKER
● B	BRONZE DISC MARKER
● EM	BURIED ELECTRONIC MARKER
▨	REINFORCED DUCT BANK SECTIONS


KEY PLAN NTS

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OWNER
hydro one
Hydro One Networks Inc.
ENGINEERING & CONSTRUCTION SERVICES

N. S. WONG
2020-02-28

HYDRO ONE REFERENCE NUMBERS:
AR 23137

PROJECT TITLE
2x230 KV CABLE CIRCUITS H7L/H11L
(OPERATED @ 115 KV) IN CONCRETE
ENCASED DUCT BANK BETWEEN
LEASIDE TS AND TODMORDEN JCT
AS-RECORD DRAWINGS

SHEET TITLE
LEASIDE TS TO TODMORDEN JCT
STA. 2+815 TO 3+674

DESIGNED	DRAWN	CHECKED
N.W.	J.C.	N.W.

SCALE H 1: 200 V 1:100
DATE DEC 2019
PROJECT NUMBER 11139931
DWG. NUMBER 1