



wood.



Appendix E

Utilities

Babcock, Olivia

From: Samantha Gillespie <Samantha.Gillespie@cogeco.com>
Sent: April-12-17 10:16 AM
To: Smith, Neal
Subject: RE: Lakeshore Road West EA study - Utility coordination
Attachments: 20170412_101423.jpg

Good Morning Neal,
Please find attached markup. If you have any additional questions please let me know.
Thank you,

SAMANTHA GILLESPIE

Planning Lead Hand-Burloak
Network Planning and Design

T 289-337-7299 | C 289-776-7853

950 Syscon Road
Burlington, Ontario
L7R 4S6 Canada
cogeco.ca



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Cogeco Câble Canada, 5 Place Ville-Marie, Bureau 1700, Montréal, Québec, H3B 0B3

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Cogeco Cable Canada, 5 Place Ville-Marie, Suite 1700, Montreal, Quebec, H3B 0B3

From: Smith, Neal [mailto:neal.smith@amecfw.com]
Sent: Tuesday, March 21, 2017 2:59 PM
To: Samantha Gillespie
Subject: RE: Lakeshore Road West EA study - Utility coordination

Hi Samantha, key plan attached.

Thanks

Neal Smith, C.E.T

Senior Technologist, Transportation, Amec Foster Wheeler Environment and Infrastructure
3215 North Service Road, Burlington, ON L7N 3G2, Canada
T +1 (905) 335 2353 X 1223 F + 1 (905) 335 1414 M +1 (905) 220-1322
neal.smith@amecfw.com

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From: Samantha Gillespie [mailto:Samantha.Gillespie@cogeco.com]
Sent: March-21-17 2:58 PM
To: Smith, Neal <neal.smith@amecfw.com>
Subject: RE: Lakeshore Road West EA study - Utility coordination

Good Morning Neal,
Can you please provide a map of the impacted area and I would be happy to complete a markup for you.
Thank you,

SAMANTHA GILLESPIE

Planning Lead Hand-Burloak
Network Planning and Design

T 289-337-7299 | C 289-776-7853

950 Syscon Road
Burlington, Ontario
L7R 4S6 Canada
cogeco.ca



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Cogeco Cable Canada, 5 Place Ville-Marie, Suite 1700, Montreal, Quebec, H3B 0B3

From: Smith, Neal [<mailto:neal.smith@amecfw.com>]

Sent: Monday, February 27, 2017 11:56 AM

To: Zone2Scheduling@HydroOne.com; Steve.Andrews@rci.rogers.com; dayton.dumesnil@bell.ca; Samantha Gillespie; DGadbois@uniongas.com; dmotoc@oakvillehydro.com; dsteele@oakvillehydro.com; est.regcrossing@enbridge.com; mark-ups@enbridge.com; connell@transcanada.com; mckenzie@transcanada.com

Cc: Dearlove, Heather

Subject: RE: Lakeshore Road West EA study - Utility coordination

Good morning all,

We are currently working on collecting existing inventories along Lakeshore Road West between, west of Mississaga Street and east of Dorval Drive in the Town of Oakville. Can you please any information on infrastructure that would be in the Lakeshore ROW. If drawings are available, please provide.

If you are not the correct contact for this project, please direct me to the proper contact person.

Thank you.

Neal Smith, C.E.T

Senior Technologist, Transportation, Amec Foster Wheeler Environment and Infrastructure

3215 North Service Road, Burlington, ON L7N 3G2, Canada

T +1 (905) 335 2353 X 1223 F + 1 (905) 335 1414 M +1 (905) 220-1322

neal.smith@amecfw.com

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Babcock, Olivia

From: Mark O'Connell <mark_oconnell@transcanada.com>
Sent: February-28-17 3:09 PM
To: Smith, Neal
Subject: Re: Lakeshore Road Environmental Assessment from Mississaga Street to Dorval Drive.

Hi Neal,
Your work area is clear from TransCanada. Contact me if you need anything else in the future.
Thanks

Mark O'Connell
TransCanada Pipelines
Pipeline Technician
1020 Rymal Road East
Hamilton, ON L8W 3N6
Cell: 289-260-3514
mark_oconnell@transcanada.com

On Feb 28, 2017, at 12:53 PM, Smith, Neal <neal.smith@amecfw.com> wrote:

Hi Mark, pleasure speaking with you.

Please find attached the key plan of the study area for the Lakeshore Road EA that we are undertaking for the Town of Oakville. Please confirm that TransCanada has no infrastructure with in the study limit.


Thanks

Neal Smith, C.E.T

Senior Technologist, Transportation, Amec Foster Wheeler Environment and Infrastructure
3215 North Service Road, Burlington, ON L7N 3G2, Canada
T +1 (905) 335 2353 X 1223 F +1 (905) 335 1414 M +1 (905) 220-1322
neal.smith@amecfw.com

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<KeyPlan.png>

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Babcock, Olivia

From: Mark-Ups <Mark-Ups@enbridge.com>
Sent: February-27-17 2:16 PM
To: Smith, Neal
Subject: RE: Lakeshore Road West EA study - Utility coordination

Hello,

Please be informed that Enbridge Gas Distribution Inc. has no gas infrastructure in Oakville, Ontario.

Below is the link to our franchise map for your information and for future reference.

https://www.enbridgegas.com/businesses/assets/docs/Enbridge_Franchise_Map.pdf

Kind regards,



Caprice Etchells

Utility Markups Analyst – GDP, Drafting, Permit & Markups

ENBRIDGE GAS DISTRIBUTION
500 Consumers Rd, North York, ON.

enbridgegas.com
Integrity. Safety. Respect.

From: Smith, Neal [mailto:neal.smith@amecfw.com]
Sent: Monday, February 27, 2017 11:56 AM
To: Zone2Scheduling@HydroOne.com; Steve.Andrews@rci.rogers.com; dayton.dumesnil@bell.ca; samantha.gillespie@cogeco.com; Gadbois, Dave; dmotoc@oakvillehydro.com; dsteele@oakvillehydro.com; est.regcrossing@enbridge.com; Mark-Ups; oconnell@transcanada.com; mckenzie@transcanada.com
Cc: Dearlove, Heather
Subject: RE: Lakeshore Road West EA study - Utility coordination

Good morning all,

We are currently working on collecting existing inventories along Lakeshore Road West between, west of Mississaga Street and east of Dorval Drive in the Town of Oakville. Can you please any information on infrastructure that would be in the Lakeshore ROW. If drawings are available, please provide.

If you are not the correct contact for this project, please direct me to the proper contact person.

Thank you.

Neal Smith, C.E.T

Senior Technologist, Transportation, Amec Foster Wheeler Environment and Infrastructure
3215 North Service Road, Burlington, ON L7N 3G2, Canada
T +1 (905) 335 2353 X 1223 F +1 (905) 335 1414 M +1 (905) 220-1322

Babcock, Olivia

From: Robert.Paradis@HydroOne.com
Sent: March-08-17 8:23 PM
To: Smith, Neal
Cc: tpumarkup@HydroOne.com
Subject: FW: Lakeshore Road West EA study - Utility coordination

Neal,

According to records, Hydro One Networks Inc. has no distribution plant ($\leq 44,000$ volts) in the area indicated in your description.

I have forwarded this to our high-voltage group for review.

Please feel free to contact me if you require further info.

Bob

Bob Paradis

Supervising Distribution Engineering Technician

Hydro One Networks Inc.

NM3 Newmarket Projects & Metro Lines D_x

Cellular: (416) 570 1981

Office: (905) 713 1215 x2210

bob.paradis@hydroOne.com

www.HydroOne.com

From: Smith, Neal [<mailto:>]
Sent: Monday, February 27, 2017 11:56 AM
To: ZONE 2 SCHEDULING; Steve.Andrews@rci.rogers.com; dayton.dumesnil@bell.ca; samantha.gillespie@cogeco.com; DGadbois@uniongas.com; dmotoc@oakvillehydro.com; dsteele@oakvillehydro.com; est.regcrossing@enbridge.com; mark-ups@enbridge.com; oconnell@transcanada.com; mckenzie@transcanada.com
Cc: Dearlove, Heather
Subject: RE: Lakeshore Road West EA study - Utility coordination

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If you are not the correct contact for this project, please direct me to the proper contact person.

Thank you.

Neal Smith, C.E.T

Senior Technologist, Transportation, Amec Foster Wheeler Environment and Infrastructure
3215 North Service Road, Burlington, ON L7N 3G2, Canada

Babcock, Olivia

From: William.McClevis@HydroOne.com on behalf of tpumarkup@HydroOne.com
Sent: March-16-17 11:43 AM
To: Smith, Neal
Cc: Robert.Paradis@HydroOne.com; tpumarkup@HydroOne.com
Subject: RE: Lakeshore Road West EA study - Utility coordination

Hey Neal.

Hydro One **does not own or operate any high voltage underground facilities** in the Lakeshore Rd ROW from Mississauga Rd to Dorval Dr.

Thanks,

Logan M^cClevis

Grid Operations Technician
Operating Performance and Customer Support
Hydro One Networks
Barrie Corporate Office

From: PARADIS Robert
Sent: Wednesday, March 08, 2017 8:23 PM
To: neal.smith@amecfw.com
Cc: TPUCC DRAWINGS
Subject: FW: Lakeshore Road West EA study - Utility coordination

Neal,

According to records, Hydro One Networks Inc. has no distribution plant ($\leq 44,000$ volts) in the area indicated in your description.

I have forwarded this to our high-voltage group for review.

Please feel free to contact me if you require further info.

Bob

Bob Paradis
Supervising Distribution Engineering Technician

Hydro One Networks Inc.
NM3 Newmarket Projects & Metro Lines D_x

Cellular: (416) 570 1981
Office: (905) 713 1215 x2210
bob.paradis@hydroOne.com

From: Smith, Neal [<mailto:>]
Sent: Monday, February 27, 2017 11:56 AM
To: ZONE 2 SCHEDULING; Steve.Andrews@rci.rogers.com; dayton.dumesnil@bell.ca; samantha.gillespie@cogeco.com; DGadbois@uniongas.com; dmotoc@oakvillehydro.com; dstele@oakvillehydro.com; est.regcrossing@enbridge.com; mark-ups@enbridge.com; oconnell@transcanada.com; mckenzie@transcanada.com
Cc: Dearlove, Heather
Subject: RE: Lakeshore Road West EA study - Utility coordination

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Thank you.

Neal Smith, C.E.T

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Babcock, Olivia

From: Cody McMullin <CMcMullin@oakvillehydro.com>
Sent: March-16-17 1:47 PM
To: Smith, Neal
Cc: Stephanie Sebastiani
Subject: RE: Lakeshore Road West EA study - Utility coordination

Hello

The drawings were too large to send via email so I have uploaded them to the FTP site and they can be found under:

- <ftp://ftp.oakvillehydro.com/Transmittal/>
- Here is the log-in info:
 - Credentials for Users
 - **Username:** ohengtemp
 - **Password:** filepickup

Regards,

CODY McMULLIN

Draftsperson

Oakville Hydro



P.O. Box 1900
861 Redwood Square
Oakville, ON L6K 0C7
905-825-9400 ext 2227
cmcmullin@oakvillehydro.com
www.oakvillehydro.com

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From: Smith, Neal [<mailto:neal.smith@amecfw.com>]
Sent: Monday, February 27, 2017 11:50 AM
To: <mailto:Zone2Scheduling@HydroOne.com>; <mailto:Steve.Andrews@rci.rogers.com>; <mailto:dayton.dumesnil@bell.ca>; <mailto:samantha.gillespie@cogeco.com>; <mailto:DGadbois@uniongas.com>; Daniela Motoc; Dan Steele; est.regcrossing@enbridge.com; mark-ups@enbridge.com; connell@transcanada.com; mckenzie@transcanada.com
Cc: Dearlove, Heather
Subject: Lakeshore Road West EA study - Utility coordination

Good morning all,

We are currently working on collecting existing inventories along Lakeshore Road West between, west of Mississaga Street and east of Dorval Drive in the Town of Oakville. Can you please any information on infrastructure that would be in the Lakeshore ROW. If drawings are available, please provide.

If you are not the correct contact for this project, please direct me to the proper contact person.

Thank you.

Neal Smith, C.E.T

Senior Technologist, Transportation, Amec Foster Wheeler Environment and Infrastructure
3215 North Service Road, Burlington, ON L7N 3G2, Canada
T +1 (905) 335 2353 X 1223 F + 1 (905) 335 1414 M +1 (905) 220-1322
neal.smith@amecfw.com

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Please consider the environment before printing this email.

Babcock, Olivia

From: Anson Camick <AnsonCamick@dtstechnical.ca>
Sent: March-16-17 4:07 PM
To: GTAW.Markups; Smith, Neal
Subject: M170747 Lakeshore Rd W (LakeshoreRdW)
Attachments: M170747 LakeshoreRdW.PDF; M170747 Lakeshore Rd W - 3rd Line to Woodhaven Park Mark-Up.pdf; M170747 Lakeshore Rd W - Mississauga to 3rd Line Mark-Up.pdf; M170747 Lakeshore Rd W - Westdale to Dorval Mark-Up.pdf; M170747 Lakeshore Rd W - Woodhaven Park to Westdale Mark-Up.pdf

Hello,

Please find attached the completed mark-up request on behalf of Rogers Communications.

Regards,
Anson Camick



DTS Technical Inc.
202-10 Parr Blvd.
Bolton, ON L7E 4G9
C: 705-794-6766
ansoncamick@dtstechnical.ca
dtstechnical.ca



Minutes of Meeting

Date: October 30, 2017
File #: TPB166147
Meeting Date & Time: October 30, 2017 - 10:00 am – 12:00pm
Meeting at: Town of Oakville Town Hall, Oakville Room
Subject: Class Environmental Assessment Study
Lakeshore Road West Improvements
Project Team Meeting #8 Utility Coordination

Attendees:

Syed Rizvi, Town of Oakville
Neal Smith, Amec Foster Wheeler
David Gadbois, Union Gas
Adam Gilmore, Region of Halton
Daniela Motoc, Oakville Hydro

Absent:

Samantha Gillespie, Cogeco
Dayton Dumesnil, Bell
David Sinke, Amec Foster Wheeler

MATTERS DISCUSSED

ACTION BY:

Introductions

1. Syed Rizvi welcomed all Amec Foster Wheeler (AFW) Staff and Utility Representatives. All attendees were provided with a copy of the agenda and the preliminary design (11X17). Information

Overview of the Project

2. Neal Smith provided the group an overview of the project and outlined the limits of the study, including the design elements and the 3 major bridge structures (Bronte Creek, 14 Mile Creek and McCraney Creek). Information
3. Syed Rizvi explained the detailed design and construction would be carried out in 4 Phases with Phase 1 (detailed design) starting in 2018. Which section would be Phase 1, is to be determined through the EA. Information

PLEASE NOTE: If there is any comment or amendment to be made to these meeting notes, they should be brought to the notice of Amec Foster Wheeler within 24 hours of issue and confirmed in writing

3215 North Service Road
Burlington, Ontario L7N 3G2
Tel +1 905 335 2353
Fax +1 905 335-1414
amecfw.com

Amec Foster Wheeler Environment & Infrastructure
Registered office: 2020 Winston Park Drive, Suite 700, Oakville, Ontario L6H 6X7
Registered in Canada No. 773289-9; GST: 899879050 RT0008; DUNS: 25-362-6642

B:\2016\Projects\TPB166147 - Oakville Lakeshore EA\02_PM\03_MEETINGS\Project Team\Agendas and Meeting Notes\17-10-03_Meeting #5 Preliminary Design\03_Meeting Notes

Continued...

Meeting Date: October 3, 2017

MATTERS DISCUSSED

ACTION BY:

Discussion

- | | |
|--|----------------|
| 4. Neal mentioned that due to changes in storm water facilities design changes in roadway elevations may occur at locations. | Information |
| 5. Adam Gilmore explained there is an ongoing EA for the Berta Point Pumping Station with 2 twin forcemains along Lakeshore Road West to East Street from West River Street / Triller Place. PIC#2 is expected to be held in January 2018. Timing of construction was unknown. Adam to follow-up | Halton Region |
| 6. David Gadbois indicated that all Union Gas's infrastructure was underground along Lakeshore Road West. | Information |
| 7. A high-level summary of conflicts for all utilities be prepared and provided to all. | AFW |
| 8. David suggested where property acquisition had not been an option, easements were obtained previously. | Information |
| 9. Daniela Motoc indicated that much of Oakville Hydro's infrastructure does not meet the current guidelines for clearances from trees, roadway and property lines. These would be evaluated at detailed design. | AFW |
| 10. Also, mentioned, some of the poles are owned by Bell. Street lighting plan may require attaching to Hydro poles. Are Cobra type arms being used for this project? | Information |
| 11. Minimum 3.5 metres clearance is required from hydro poles to the property line. | Information |
| 12. Hydro vaults depth typically required is 0.9 metres. | Information |
| 13. Daniela Motoc to provide standards of Oakville Hydro to form part of ESR for reference at the detailed design stage. | Oakville Hydro |
| 14. For roadway projects where fill is required it has always been a concern due to minimum clearance required for the hydro poles. | Information |
| 15. Solar powered technology for streetlighting is available. | Information |

Continued...

Meeting Date: October 3, 2017

MATTERS DISCUSSED

ACTION BY:

16. Cut and fills could impact existing poles and underground vaults.
Profile drawings to be provided if possible.

AFW

Meeting Minutes prepared by,

Amec Foster Wheeler Environment & Infrastructure
A Division of Amec Foster Wheeler Americas Limited

Per: Neal Smith
Project Manager

Attached: Sign In sheet



Bell Canada Municipal Operations Centre - C/O TELECON DESIGN INC.
200 Town Centre Blvd., Suite #300
Markham, Ontario L3R 8G5
Ph: (905) 470-2112 Fax: (905) 460-8956

APPLICATION FOR PLANT LOCATION AND CONSENT

Applicant: Amec Foster and Wheeler

Mark Up #:63437

Applicant Ref #: N/A

Location: Lakeshore Rd from W of Mississauga St to E of Dorval Dr

Switching Center/NNX: OAKVILLE-BRONTE/847 OAKVILLE-BALSAM/849

Date Received From Applicant: 2017-10-04

Marked By: ROSANNA & BISHER

APPLICATION FOR PLANT LOCATION AND REQUEST

- Existing and/or proposed Bell Canada underground plant are indicated on the attached plan
- Our records show no existing and / or proposed underground plant within 2m of your proposed installation
- Conflict indicated
- Meets with our approval
- Not for PUCC approval - Mark up only
- If within 1 metre of Bell plant, hand dig

REMARKS: Call for locates 1.800.400.2255. Tie-in measurements are a guideline only and physically verification may be required by applicant to determine the true separation between plant. Maintain clearance of 0.6m. Hand dig when crossing Bell plant.

PROCEDURES TO FOLLOW:

1. Request locates prior to construction 1-800-400-2255
2. If exact location and depth are critical - test pits are recommended
3. Bell Canada plant location information is approximate
4. If the location of your proposed design changes, it will be necessary to re-apply
5. Permits expire six(6) months from approval date

Signature:

Date:

ROSANNA & BISHER

Oct 12, 2017



Oakville Hydro Corporation
P.O. Box 1900
861 Redwood Square
Oakville ON L6K 0C7
Telephone: 905-825-9400
Fax: 905-825-4460
email: ohc@oakvillehydro.com
www.oakvillehydro.com

TRANSMITTAL

Amec Foster Wheeler
3215 North Service Rd
Burlington Ontario
L7N 3G2
Transportation
Attention: Neal Smith

Date: March 16 2017

Re: Lakeshore Road West EA study - Utility coordination

Dear Neal:

We are transmitting to you the following via:

Mail Fax Hand Courier E-Mail

Please see the fourteen (14) GIS Screen Capture and forty-three (43) Drawings:

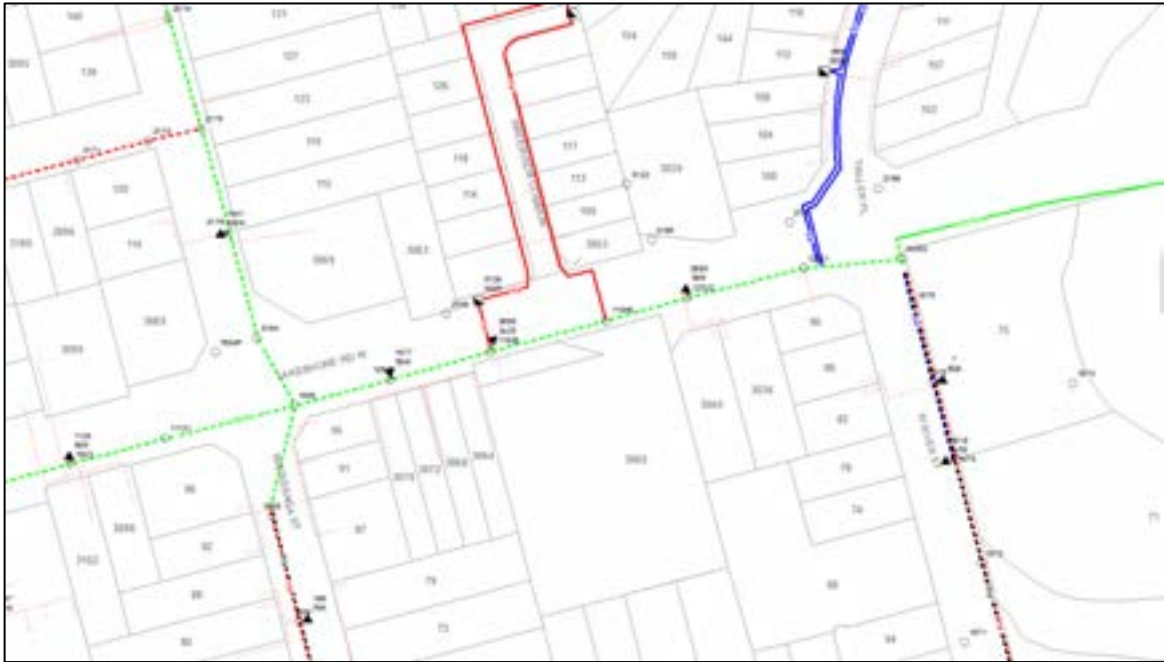
Note: Please obtain the appropriate Hydro locates to confirm the possibility of any underground plant prior to the commencement of construction.

REMARKS

For your approval Please review and comment For your information
 As per your request Construction copy issue Return marked up copy
 Approved Revise and re-submit

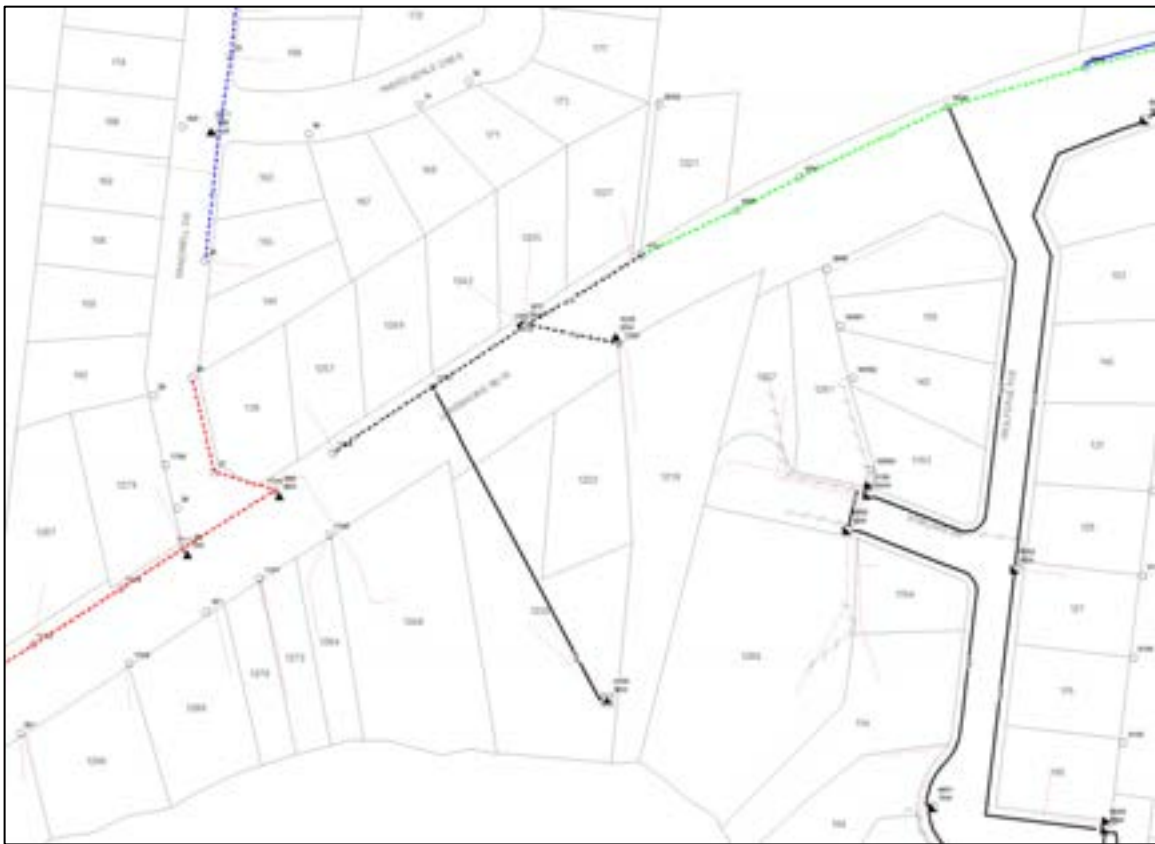
Yours truly,
Cody McMullin
Draftsperson, Engineering Department

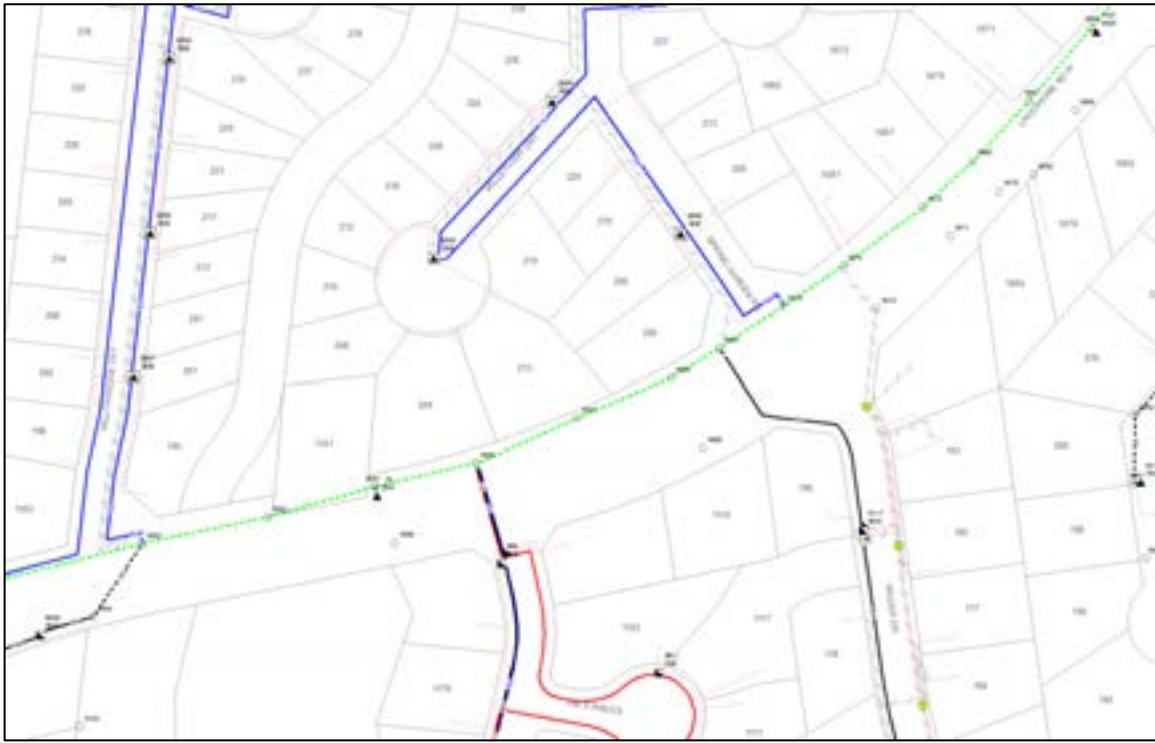
GIS Screen Captures

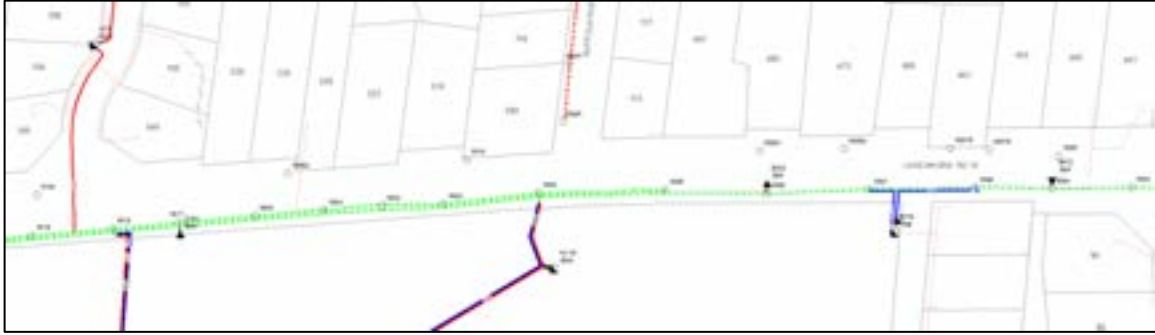


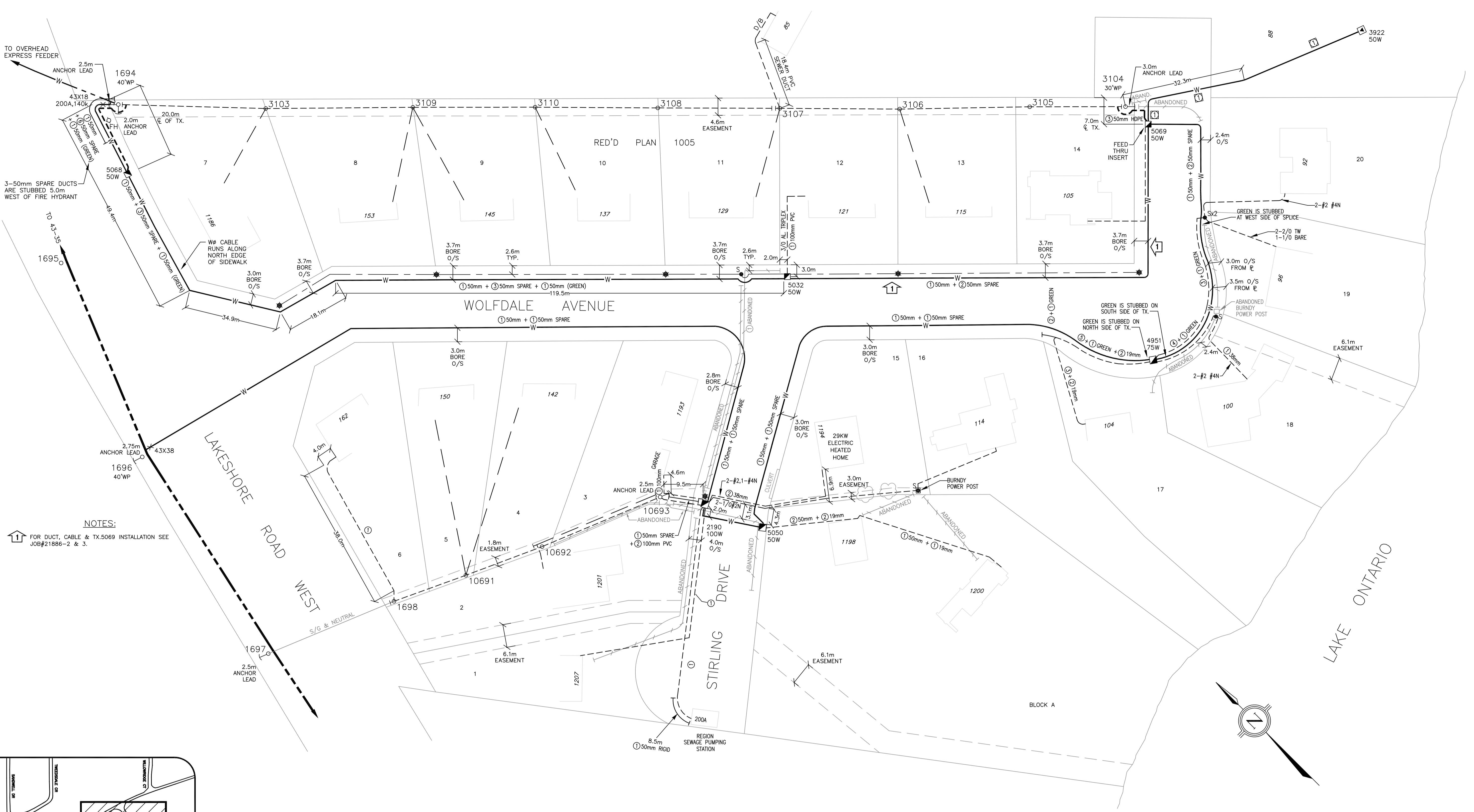




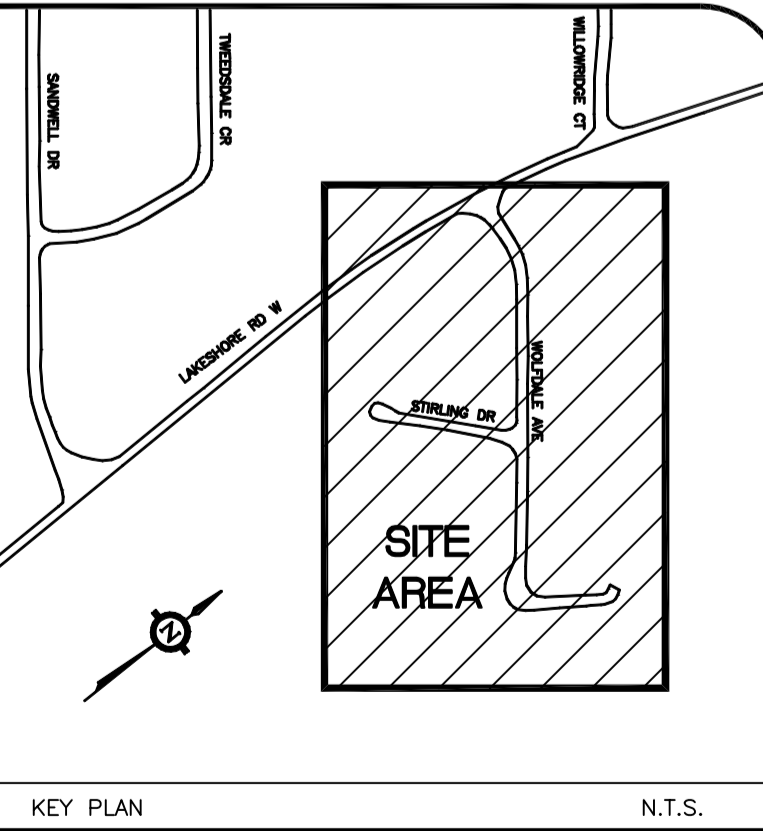








NOTES:
 1 FOR DUCT, CABLE & TX.5069 INSTALLATION SEE JOB#21886-2 & 3.



FRAMING STANDARDS					
POLE ID	FRAMING 1	FRAMING 2	FRAMING 3	FRAMING 4	FRAMING 5
1694	1-319	1-304	1-805	1-806	1-808
1696	1-240	1-301	1-805	1-806	
3104		1-304			1-808

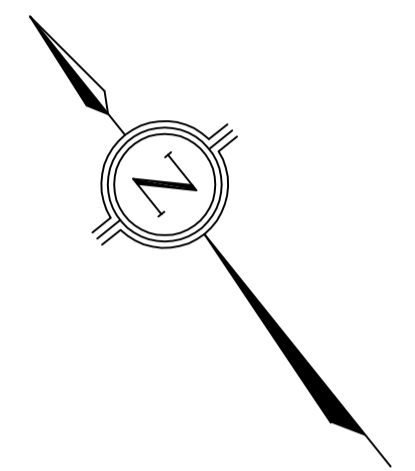
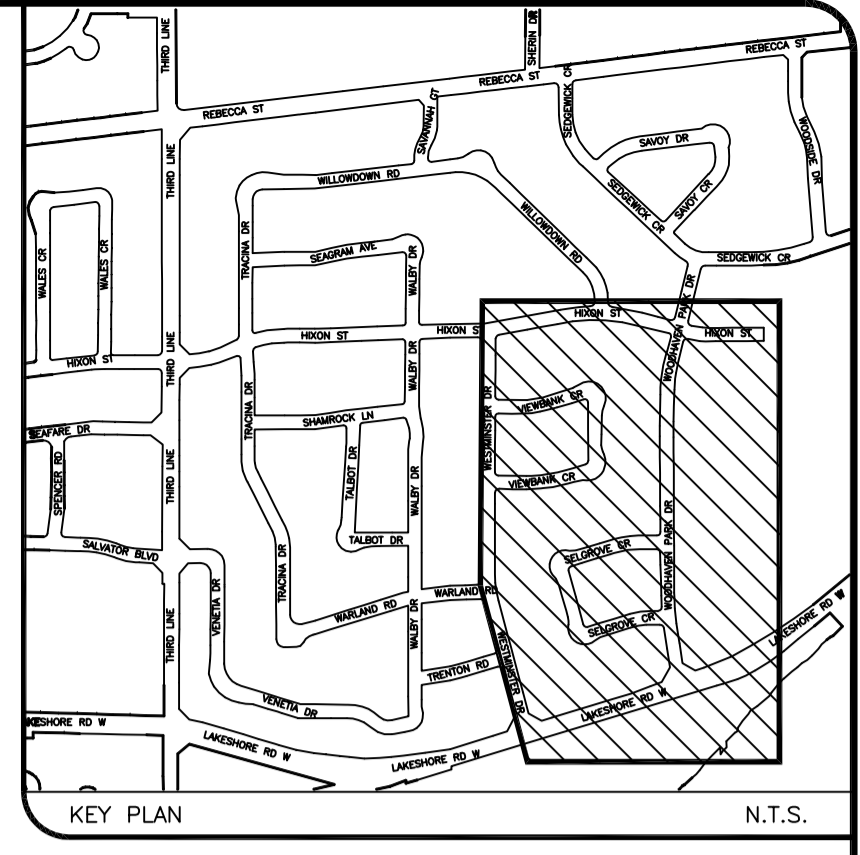
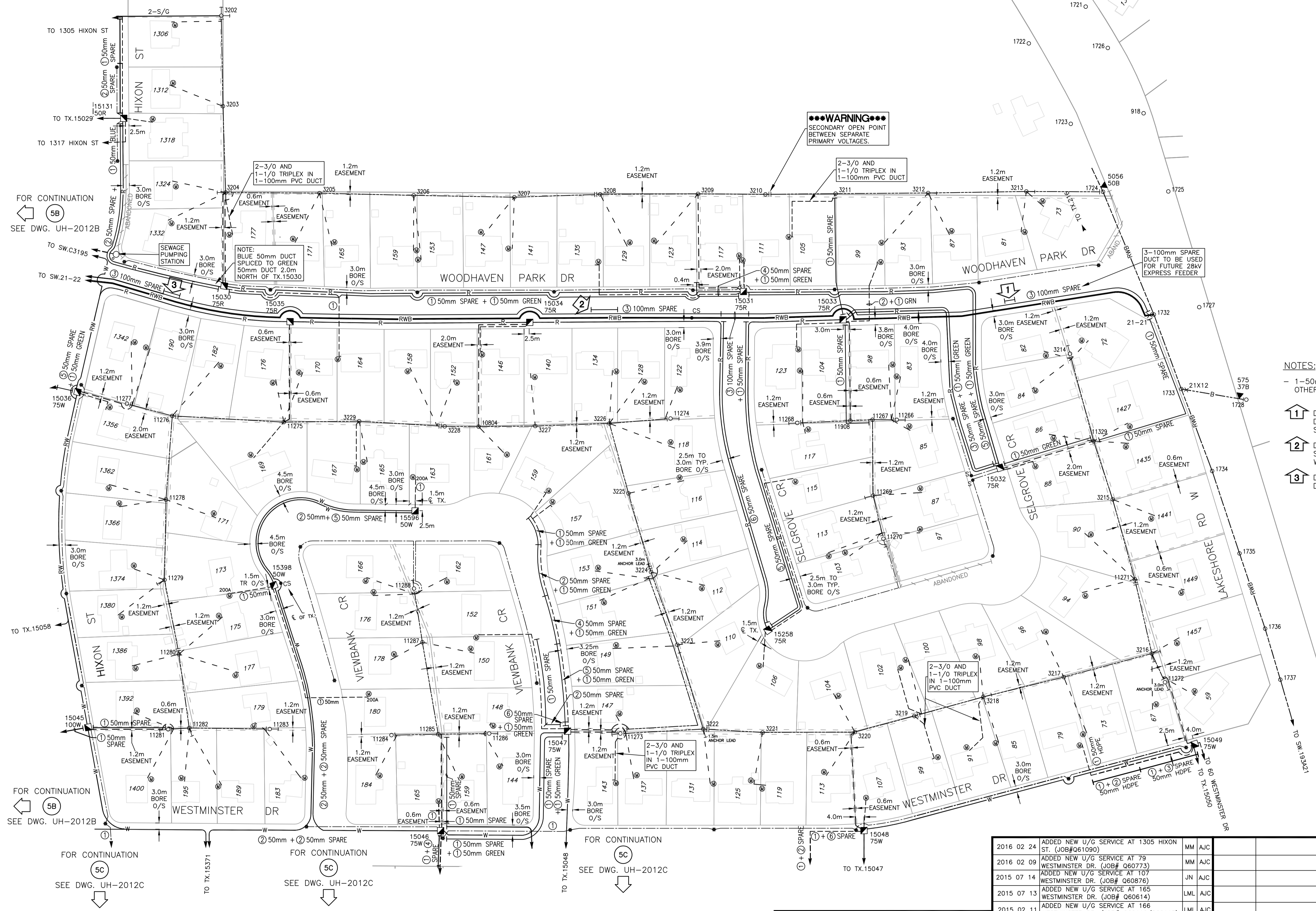
LEGEND	
—	3-336 kcmil. AL. EXPRESS FEEDER, UNLESS OTHERWISE NOTED
- - -	1-1/0 15kV ACSR POLY. OVERHEAD LOCAL CABLE
—W—	1-1/0 28kV AL. UNDERGROUND LOCAL CABLE
—	OVERHEAD SECONDARY SERVICE CABLE
- - -	3/0 AL. TRIPLEX SECONDARY SERVICE CABLE, UNLESS OTHERWISE NOTED
—	3-500 kcmil. SECONDARY BUS
—	EXISTING UNDERGROUND STREETLIGHT CABLE
—	S/G & NEUTRAL
▣	PADMOUNTED TRANSFORMER, SIZE AS NOTED
▣	SUBMERSIBLE TRANSFORMER, SIZE AS NOTED
⊙	NO. OF 50mm DIRECT BURIED DUCTS
⊙	NO. OF 100mm CONCRETE ENCASED DUCTS
○	WOOD POLE LOCATION
×	SWITCH LOCATION
•	SPLICE LOCATION

NOTES
 -TRANSFORMERS ARE LOCATED IN THE BOULEVARD WITH A TYPICAL OFFSET OF 3.25m, UNLESS OTHERWISE SHOWN.
 -SPLICE PIT LOCATIONS ARE INSTALLED WITH 3M MARKERS

REVISIONS		FILE	JOB#
16 04 01	ADDED NEW 200A U/G SVC @ 1207 STIRLING DRIVE (JOB#061311)	10-039	21655-1 TO 6
12 05 16	AS-BUILT PER HYDRO (JOB#30008)	J. GRAHOVAC	CONTRACTOR ASSUMED: DATE MARCH 2010
11 03 03	AS-BUILT PER HYDRO		
10 12 09	TX.5069 INSTALLED C/W DUCT BANK (JOB#21886-2 & 3)		

WOLFDALE AVE AND STIRLING DR
 REAR LOT CONVERSION
 U/G HYDRO DISTRIBUTION
 SCALE 1:500
 DRAWING NO. UH-2129A

FOR CONTINUATION
SEE DWG. UH-2012B



- NOTES:**
- 1-50mm SPARE DUCT INSTALLED ALONG SIDE OF PRIMARY CABLES, UNLESS OTHERWISE NOTED.
 - 1 DUCTS ARE CONCRETE ENCASED STARTING AT SOUTH SIDE OF THE DRIVEWAY FOR 82 WOODHAVEN PARK DRIVE FOR 5.0m SOUTH OF THE SOUTH SIDE OF THE DRIVEWAY.
 - 2 DUCTS ARE CONCRETE ENCASED STARTING AT 4.0m SOUTH OF THE SOUTH SIDE OF THE DRIVEWAY TO THE SOUTH PROPERTY LINE FOR 134 WOODHAVEN PARK DRIVE.
 - 3 DUCTS ARE SHALLOW THRU THE DRIVEWAY OF 190 WOODHAVE PARK DRIVE.

FOR CONTINUATION
SEE DWG. UH-2012D

FOR CONTINUATION
SEE DWG. UH-2012B

FOR CONTINUATION
SEE DWG. UH-2012C

FOR CONTINUATION
SEE DWG. UH-2012C

FOR CONTINUATION
SEE DWG. UH-2012C

LEGEND

--- 3-556kcmil. AL. & 1-336kcmil. AL. N. WIRE (27.6kV CIR.)	--- 3/0 AL. TRIPLEX U/G SEC. SERVICE, IN 50mm HDPE DUCT, UNLESS OTHERWISE NOTED	X SWITCH LOCATION
--- 4-1/0 ACSR O/H WIRE (44kV CIR.)	--- STREETLIGHT U/G WIRE	--- DOWN GUY(S) AND ANCHOR(S)
--- 3-336kcmil. AL. O/H WIRE (44kV CIR.)		S/G SPAN GUY(S)
--- 1/0 ACSR POLY O/H WIRE (44kV CIR.)		
--- 3-750kcmil. AL. COMPACT STRANDED 28kV/CN XLPE 4kV U/G WIRE IN 3-100mm HDPE DUCT (44kV CIR.)	W O/H SINGLE PHASE TRANSFORMER (2400/120/240V OR 16000/120/240V)	
--- 1/0 28kV AL. U/G WIRE IN 50mm HDPE DUCT (27.6kV CIR.)	O/H 3 PHASE TRANSFORMER BANK (4160/2400/120/208V)	
--- No. OF SPARE DUCTS AS NOTED	W WOOD POLE	
--- ABANDONED PRIMARY CABLE	S S STREETLIGHT	
--- 3-500kcmil. AL. SECONDARY BUS IN 3-50mm HDPE DUCTS	M M HYDRO METER LOCATION	
--- 3/0 AL. TRIPLEX O/H SECONDARY BUS	C C COLD SHRINK SPLICE LOCATION C/W 3M MARKER BALL	
--- #4 TRIPLEX O/H SECONDARY SERVICE	S S 30"x17"x17" SECONDARY SPLICE BOX	

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHKD
2013 02 01		ADD NEW U/G SERVICE TO 180 VIEWBANK CRES. (JOB#31156)	SS	AJC
2012 04 26		ADD NEW U/G SERVICE TO 60 WESTMINSTER DR. (JOB#30566)	SS	AJC
2012 03 09		ADDED TX.15398 & 200A U/G SERV. @ 173 VIEWBANK CRES. (JOB#30435/30392)	MD	AJC
2012 01 18		ADDED NEW SECONDARY SERVICE FOR 135 WOODHAVEN PARK DR. (JOB#30193)	BUB	AJC
2011 01 12		ADDED NEW SECONDARY SERVICE FOR 152 VIEWBANK CRES. (JOB#21885-1 TO 2)	JIG	AN
2010 11 04		ADDED TX.15258 (JOB#21701-1 TO 3)	JIG	AN
2010 10 18		AS-BUILT AS PER HYDRO	JIG	AN
2009 05 25		ADDED NEW POLE #10908 AND TX.5056, REMOVED PROP. 3-500kcmil SECONDARY CABLE FROM TX.15033 TO POLE #3211, ADDED EXIST. SECONDARY SERVICE TO 99 WOODHAVEN PARK DRIVE	JIG	AN
2008 11 13		REVISED DESIGN AT WOODHAVEN PARK DR. AND LAKESHORE ROAD WEST	JIG	AN
2008 11 10		REMOVED PROP. SERVICE FROM PROP. TX.15033 TO 99 WOODHAVEN PARK DR.	JIG	AN
2008 10 29		REVISIONS AS PER MARK-UPS AND ISSUED FOR CONSTRUCTION	JIG	AN

2016 02 24	ADDED NEW U/G SERVICE AT 1305 HIXON ST. (JOB#061090)	MM	AJC		
2016 02 09	ADDED NEW U/G SERVICE AT 79 WESTMINSTER DR. (JOB# 060773)	MM	AJC		
2015 07 14	ADDED NEW U/G SERVICE AT 107 WESTMINSTER DR. (JOB# 060876)	JN	AJC		
2015 07 13	ADDED NEW U/G SERVICE AT 165 WESTMINSTER DR. (JOB# Q60614)	LML	AJC		
2015 02 11	ADDED NEW U/G SERVICE AT 166 WESTMINSTER DR. (JOB# 060110/Q60113)	LML	AJC		
2014 02 24	ADD NEW U/G SERVICE TO 118 WESTMINSTER DR (JOB#Q60064)	LML	AJC		
2013 05 30	ADDED NEW U/G SERVICE TO 163 VIEWBANK CRES. (JOB#31378), DIMENSIONS ON VIEWBANK CRES. & COLD SHRINK SPLICE AT C/L OF TX.15398	AS	AJC	2016 02 26	ADDED NEW U/G SERVICE AT 115 SELGROVE CRES. (JOB#061188)
2013 03 06	ADDED TX.15596 @ 163 VIEWBANK CRES. (JOB#31408/31409)	SS	AJC	2016 02 26	ADDED NEW U/G SERVICE AT 1317 HIXON ST. (JOB#061116)

FILE 04-124 WO 20740-1 (TX PAD), 20740-2 (U/G STR), 20740-3 (U/G W&D), 20740-4 (O/H STR), 20740-5 (O/H W&D), 20740-6 (O/H TX)

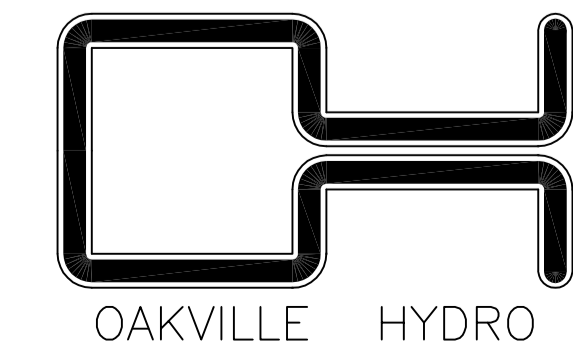
CONTRACTOR: EL CON

DRAWN JOHN GRAHOVAC DATE AUGUST 2008

DESIGNED BY

CHECKED BY *[Signature]* NOV. 06, 2008

DIRECTOR OF ENGINEERING *[Signature]*

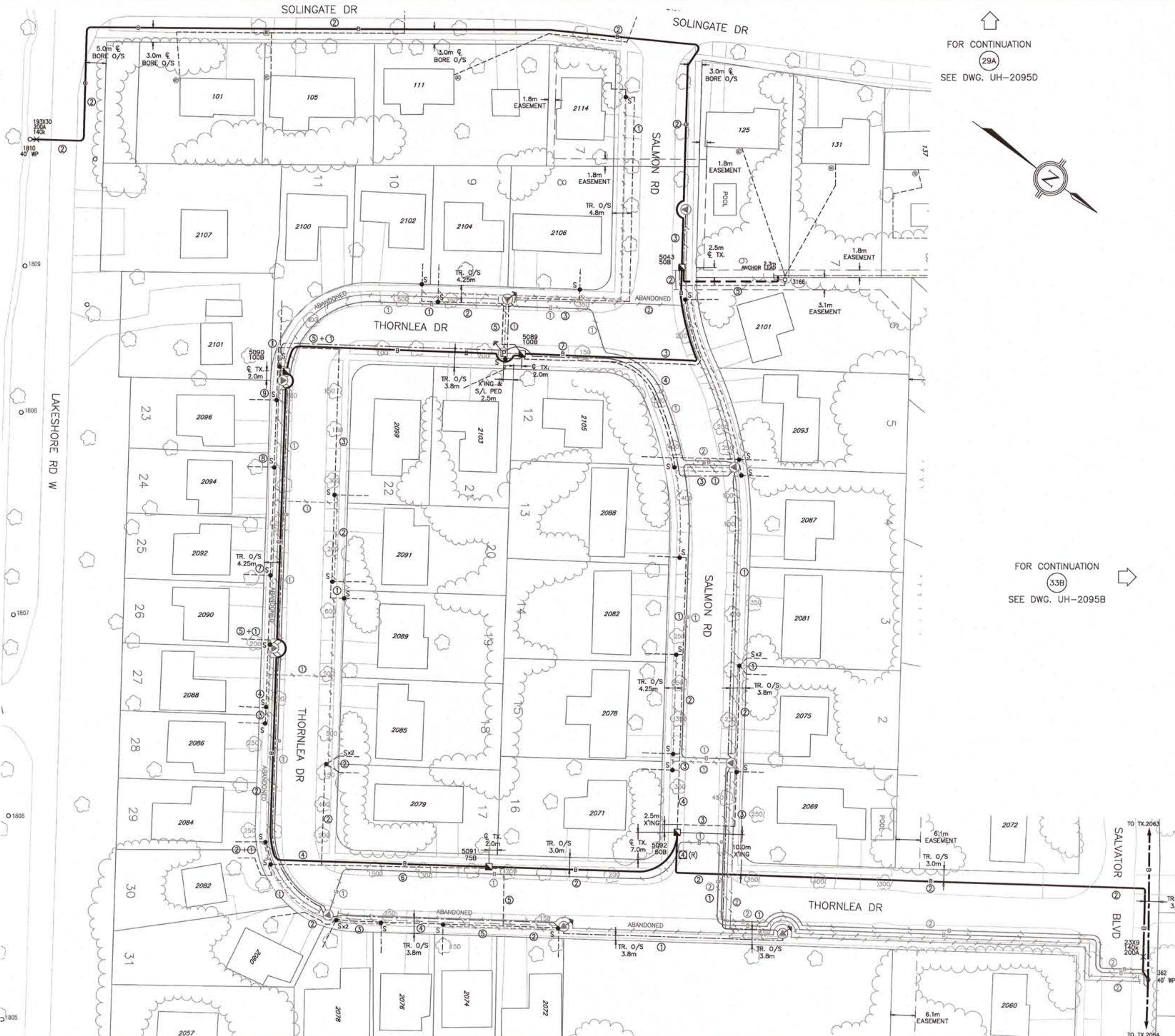
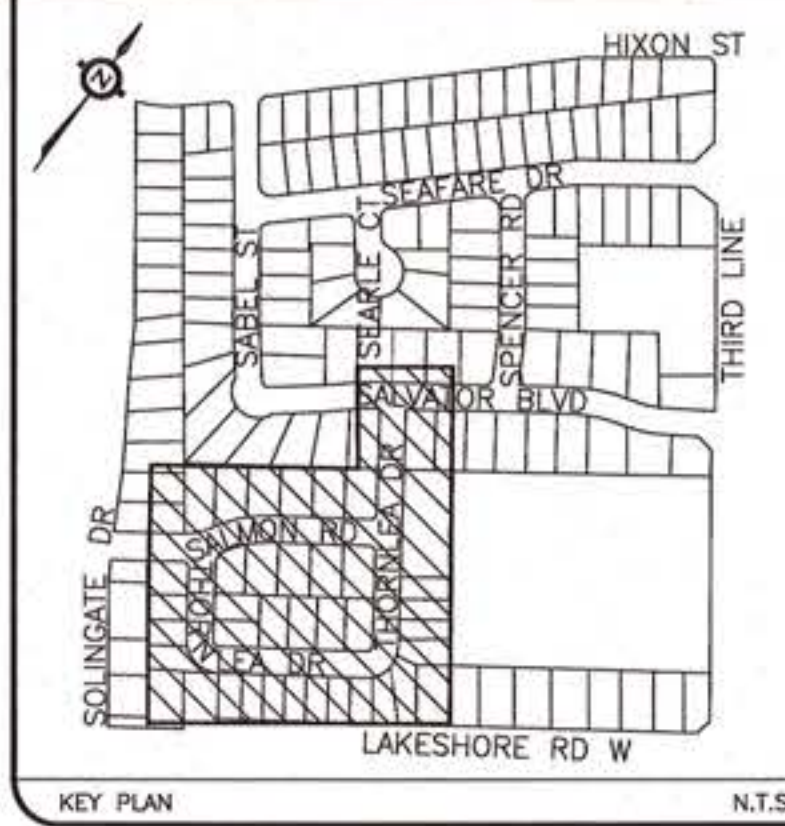


OAKVILLE REAR LOT REBUILD
PRIMARY CONVERSION
ZONE 2 AREA 1
NORTH OF LAKESHORE RD.

SCALE 1:1000 DRAWING NO. UH-2012A

FOR CONTINUATION
SEE DWG. UH-2095D
29A

FOR CONTINUATION
SEE DWG. UH-2095D
29A



FOR CONTINUATION
SEE DWG. UH-2095B
33B

LEGEND

<ul style="list-style-type: none"> 1/0 ACSR O/H PRIMARY CABLE (4kV CIR.) 1/0 28kV AL. U/G PRIMARY CABLE IN 50mm HDPE DUCT (4kV CIR.) ABANDONED 1/0 15kV Cu. U/G PRIMARY CABLE (4kV) 3-500kcmil. AL. SECONDARY BUS IN 3-50mm HDPE DUCTS 3/0 AL. TRIPLEX O/H SECONDARY BUS ABANDONED #4/0 TRIPLEX O/H SECONDARY SERVICE HYDRO METER LOCATION 3/0 AL. TRIPLEX U/G SEC. SERVICE IN 50mm HDPE DUCT ABANDONED 3/0 AL. TRIPLEX U/G SEC. SERVICE 2-#6 Cu. STREET LIGHT CABLE IN 50mm HDPE ABANDONED STREETLIGHT U/G WIRE 	<ul style="list-style-type: none"> PADMOUNTED TRANSFORMER (2400/120/240V), SIZE AS NOTED 7.6m CONCRETE POLE C/W 100W HPS PTL(PER HS-217) S/L POWER PEDESTAL C/W S/L DISCONNECTS & PRECAST CONCRETE BASE SECONDARY SPICE BOX HYDRO METER LOCATION WOOD POLE X SWITCH ● SECONDARY SPICE 	<ul style="list-style-type: none"> DOWN GUY(S) AND ANCHOR(S) No. OF 50mm P.V.C. DUCTS No. OF ABANDONED 50mm P.V.C. DUCTS No. OF ABANDONED 50mm P.V.C. DUCTS INSIDE 100mm DUCTS ABANDONED DIRECT BURIED CONDUIT 3-#4 AL. TRIPLEX IN 50mm HDPE DUCT GROUNDING INSTALLED AT LAST LIGHT ON EACH CIRCUIT PER ESA
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DATE	DESCRIPTION	BY
12/09/05	REAR LOT Z2, A1 WEST OF THRD LINE	MD/JC
12/06/28	AS-BUILT PER HYDRO	SS/AJC
11/07/12	REVISED TX.5090 LOCATION	MD/AJC
11/05/24	REVISED TX.5090 LOCATION	MD/AJC
11/04/08	GENERAL REVISIONS	MD/AVR
11/04/01	REVISED TX.5089 LOCATION	MD/AVR

FILE	04-124/11-040	W.O.	30081
R.P.		20740-7 (U/G), 21362-1 (O/H), 20740-8 (U/G), 21362-2 (O/H), 20740-9 (U/G), 21362-3 (O/H)	
DRAWN	MD	DATE	FEB. 2011
CHECKED BY	AJC	DESIGNED BY	AVR
DIRECTOR OF ENGINEERING	DPS		

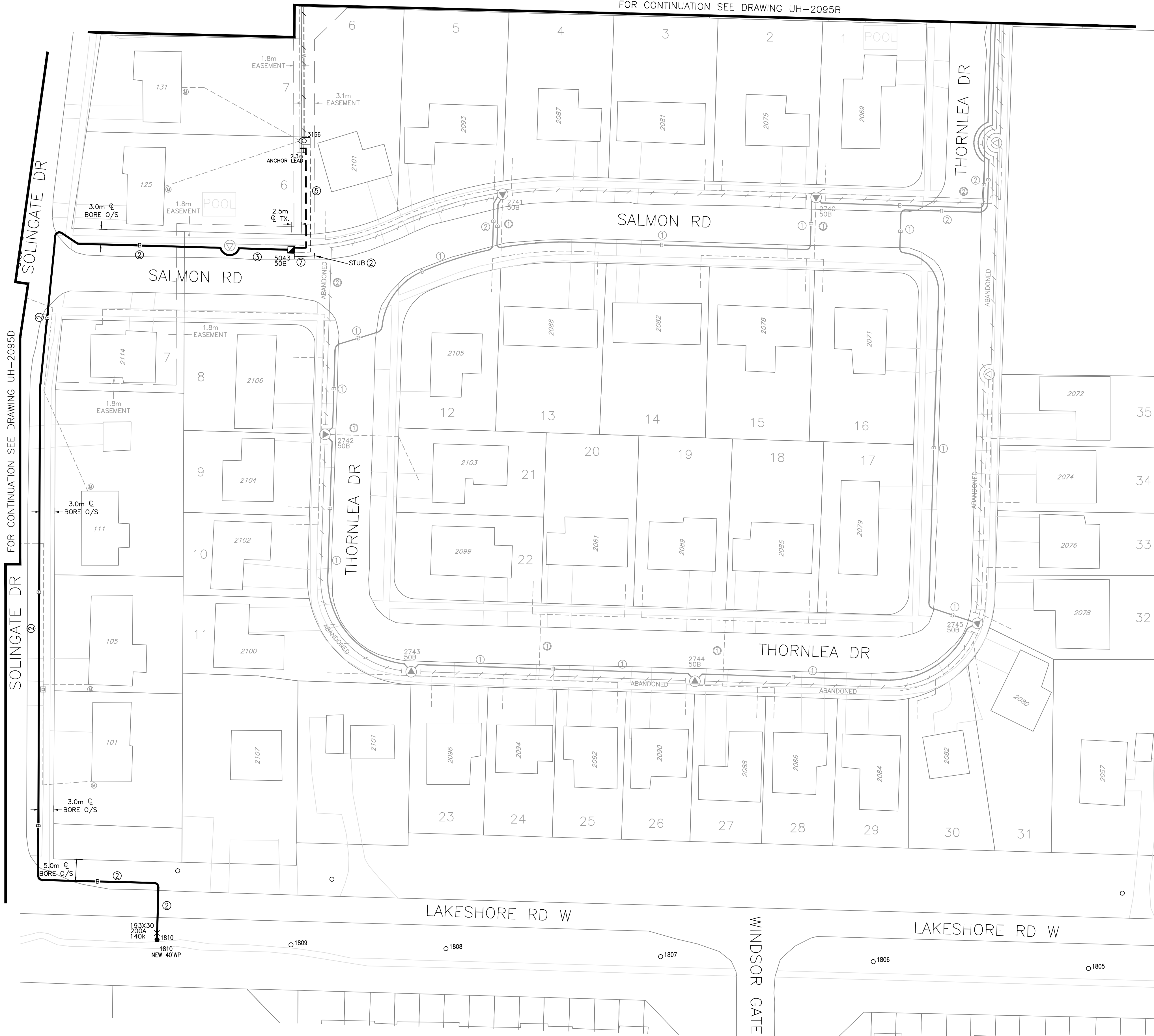


THORNLEA DRIVE 2011 REBUILD S. RICER SUBDIVISION REBUILD THORNLEA DR, SALMON RD, SOLINGATE DR

POLE TRAN U/G REBUILD UNDERGROUND DISTRIBUTION

SCALE 1:500
DRAWING NO. UH-2095E/UH-2169

FOR CONTINUATION SEE DRAWING UH-2095B



FOR CONTINUATION SEE DRAWING UH-2095D

SOLINGATE DR

SOLINGATE DR

- EX. 336 AL. SPACER O/H EXPRESS CABLES (4KV CIR.)
- EX. 1/0 ACSR O/H PRIMARY CABLE (4KV CIR.)
- EX. 1/0 ACSR O/H PRIMARY CABLE TO BE REMOVED (4KV CIR.)
- EX. 1/0 ACSR POLY O/H PRIMARY CABLE (4KV CIR.)
- EX. 1/0 ACSR POLY O/H PRIMARY CABLE TO BE REMOVED (4KV CIR.)
- EX. 1/0 15KV Cu. U/G PRIMARY CABLE (4KV)
- EX. 1/0 15KV Cu. U/G CABLE TO BE REMOVED OR ABANDONED (4KV CIR.)
- EX. 3-500kcmil. AL. SECONDARY BUS IN 3-50mm HDPE DUCTS
- EX. 3/0 AL. TRIPLEX O/H SECONDARY BUS
- EX. #4 TRIPLEX O/H SECONDARY SERVICE
- EX. 1/0 O/H SECONDARY SERVICE
- EX. 3/0 AL. TRIPLEX U/G SEC. SERVICE, UNLESS OTHERWISE NOTED
- EX. STREETLIGHT U/G WIRE

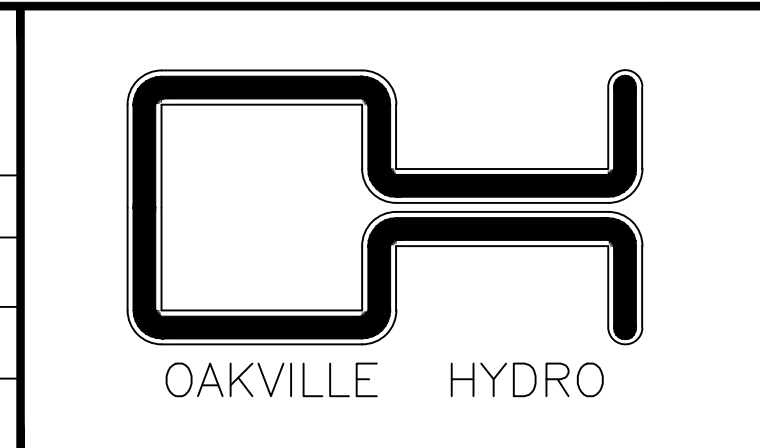
- LEGEND**
- EX. PADMOUNTED TRANSFORMER (2400/120/240V)
 - EX. O/H SINGLE PHASE TRANSFORMER (2400/120/240V)
 - SECONDARY SPLICE BOX
 - EX. HYDRO METER LOCATION
 - EX. WOOD POLE
 - EX. SWITCH LOCATION
 - EX. DOWN GUY(S) AND ANCHOR(S)
 - EX. SPAN GUY(S)
 - EX. POLE TRAN
 - EX. DUMMY POLE TRAN

- PROP. 1/0 28KV AL. U/G WIRE IN 50mm HDPE DUCT (4KV CIR.)
- PROP. 3-500kcmil. AL. SECONDARY BUS IN 3-50mm HDPE DUCTS
- PROP. 3/0 AL. TRIPLEX O/H SECONDARY BUS (2400/120/240V)
- PROP. 3/0 AL. TRIPLEX U/G SEC. SERVICE IN 50mm HDPE DUCT
- PROP. PADMOUNTED TRANSFORMER (2400/120/240V), SIZE AS NOTED
- INSTALL IN ACCORDANCE WITH HS-205 AND HS-206
- EX. WOOD POLE TO BE REMOVED
- PROP. WOOD POLE LOCATION
- EX. WP TO BE REMOVED & PROP. WP TO BE PLACE IN EX. HOLE
- PROP. SWITCH LOCATION
- PROP. COLD SHRINK SPLICE LOCATION C/W 3M MARKER BALL
- SECONDARY SPLICE BOX

REVISIONS

NO.	DESCRIPTION

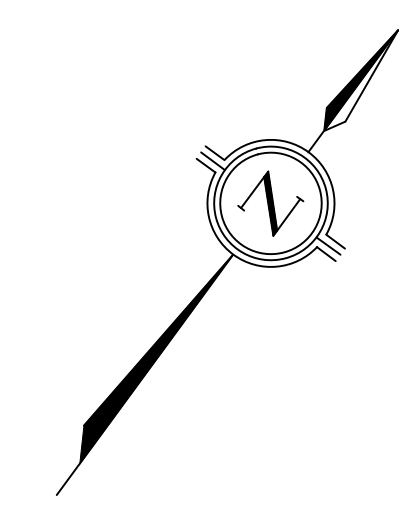
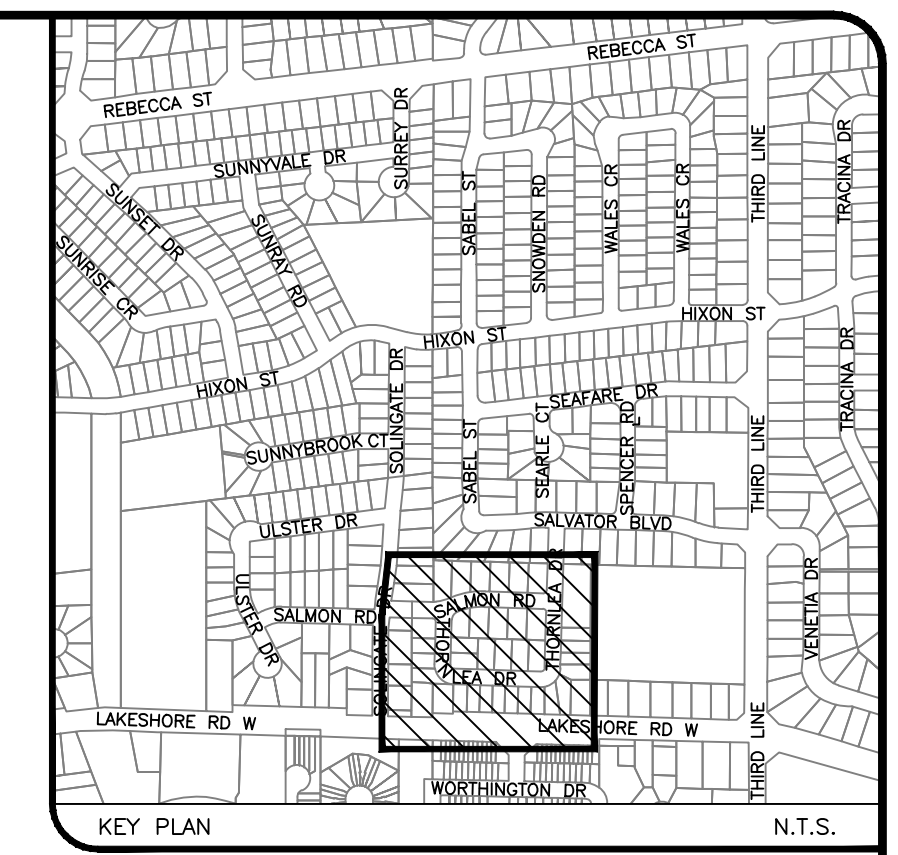
FILE	04-124	WO	20740-7 (U/G), 20740-8 (U/G), 20740-9 (U/G), 21362-1 (O/H), 21362-2 (O/H), 21362-3 (O/H)
CONTRACTOR:			
DRAWN	JOHN GRAHOVAC	DATE	OCTOBER 2009
DESIGNED BY			
CHECKED BY			
DIRECTOR OF ENGINEERING			



OAKVILLE REAR LOT REBUILD
 PRIMARY CONVERSION
 ZONE 2 AREA 1
 WEST OF THIRD LINE
 SCALE: 1:500
 DRAWING NO.: UH-2095E

NOTES:

- UNDERGROUND CONTRACTOR TO ENSURE ALL DIRECTIONAL BORE WORK TO THE REAR LOT POLE LINE IS COMPLETED IN THE REGISTERED EASEMENTS. CONTRACTOR TO CONTACT INSPECTOR IF EASEMENTS ARE NOT MARKED.
- RESTORATION TO BE COMPLETED AS PER OAKVILLE HYDRO STANDARD DRAWING HS-315.
- CONTRACTOR TO DIRECTIONAL BORE AND INSTALL 50mm HDPE CONDUIT COMPLETE WITH PRIMARY CABLES WITH A MINIMUM DIRECTIONAL DEPTH, TO THE TOP OF THE CONDUIT, OF 0.8m AND IN ACCORDANCE WITH STANDING INSTRUCTION EO-SI-03-363.
- CONTRACTOR TO EXERCISE CAUTION TO PREVENT DAMAGE TO ALL EXISTING TREES AND LANDSCAPING DURING CONSTRUCTION.
- TRANSFORMERS TO BE LOCATED IN THE BOULEVARD WITH A TYPICAL OFFSET OF 3.25m UNLESS OTHERWISE SHOWN.
- SPLICE PIT LOCATIONS TO BE INSTALLED WITH 3M MARKER IN ACCORDANCE WITH OAKVILLE HYDRO STANDARD DRAWING HS-223.
- DIP POLES AS PER 1-800 SECTION STANDARDS.
- ALL GUYING PER 1-400 SECTION STANDARDS WITH 10" PISA ANCHORS.
- ALL OVERHEAD GROUNDING PER 1-900 SECTION STANDARDS.
- ALL OVERHEAD SECONDARY CONNECTIONS PER 1-600 SECTION STANDARDS.



FRAMING STANDARDS

POLE ID	FRAMING 1	FRAMING 2	FRAMING 3	FRAMING 4	FRAMING 5
2530	1-319	1-805	1-304x2	1-806	1-808x2
2540			1-304x2		1-808
10615			1-304		1-808
10602			1-304		1-808
2534			1-304x2		1-808x2
2479		1-805		1-806	
3161			1-301		1-808
3148			1-301		1-808x2
3142			1-304x2		1-808x2
3157			1-304x2		1-808x2
1812	1-240	1-802	1-301	1-806	
1810	1-703	1-802	1-301	1-806	
3166			1-304		1-808

THIS CONSTRUCTION DRAWING IS DEEMED TEMPORARY UNTIL AS-BUILTS HAVE BEEN APPROVED

CONSTRUCTION COPY

ENGINEER'S SEAL

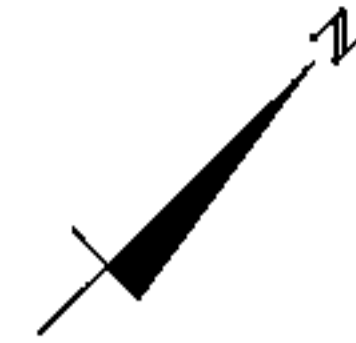
CERTIFICATE OF APPROVAL

THE INSTALLATION WORK COVERED BY THIS DOCUMENT MEETS THE SAFETY STANDARDS OF SECTION 4 OF ONTARIO REGULATION 22/04

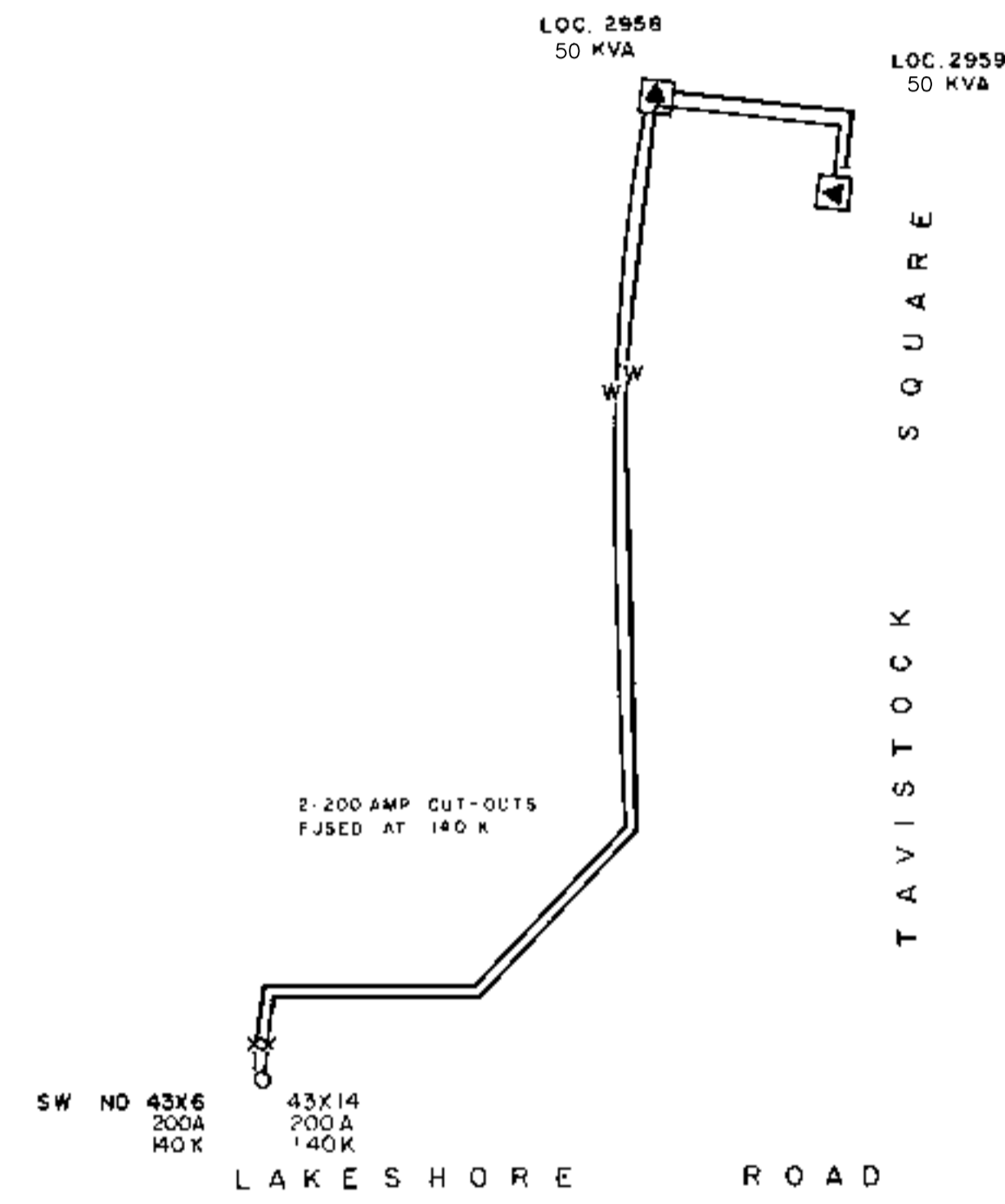
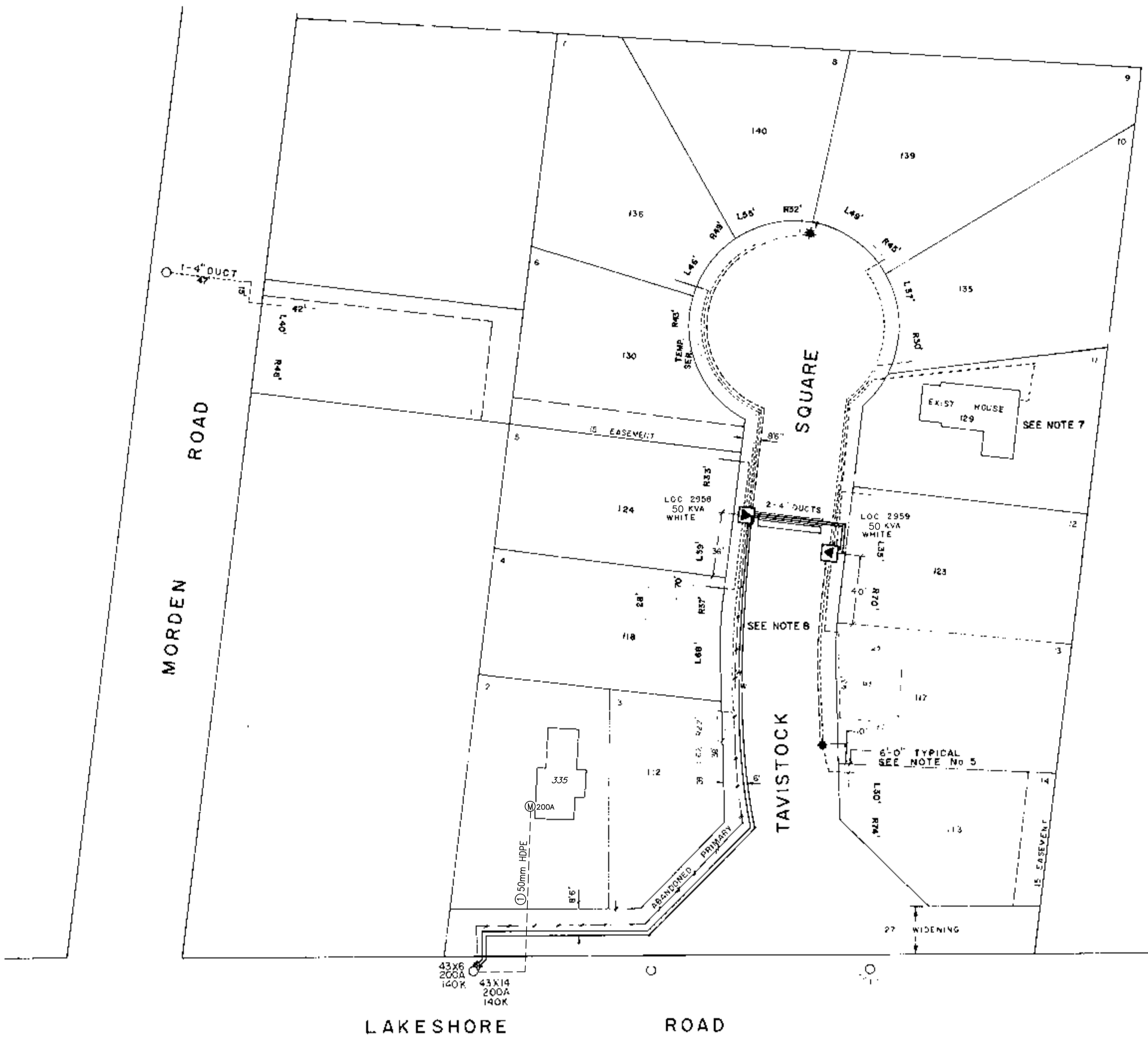
NAME: _____

SIGNATURE: _____

DATE: _____



- NOTES:**
1. ALL TRENCHES TO BE 6"-6" FROM STREET LINE, EXCEPT AS NOTED ON LAKESHORE ROAD.
 2. ALL CONCRETE POLES TO BE 8"-6" FROM STREET LINE ON SIDE LOT LINE EXCEPT LOT NO. 13.
 3. FOR TYPICAL PRIMARY ROAD CROSSING DETAILS SEE DWG. M-131.
 4. FOR TYPICAL SECONDARY SERVICE ROAD CROSSING DETAILS SEE DWG. M-130.
 5. INDIVIDUAL HOUSE SERVICES ARE TO BE LEFT WITH A 7" COIL STAPLED TO A T-BAR AT THE STREET LINE, 6'-0" FROM SIDE LOT LINE.
 6. ALL TRENCHES ARE TO HAVE A MINIMUM OF 3" OF SAND ABOVE AND BELOW CABLES.
 7. INSTALL SERVICE WITHOUT SPLICE TO REAR OF EXISTING HOUSE.
 8. REBUILD PRIMARY CABLES IN 1-4" P.V.C. DUCT BETWEEN T.P. & LOC. 2958.



- LEGEND**
- EXISTING WOOD POLE
 - PROPOSED U/G PRIMARY (115 KV, 1/0 CU, XLPE)
 - INDIVIDUAL SECONDARY SERVICE (1/0, AL, PEI, P.V.C.U.)
 - PROPOSED 25' CONCRETE POLE AND 100W HPS POST TOP LUMINAIRE
 - PROP. 100 KVA TRANSFORMER IN VAULT
 - CLOSED SWITCH

DISTRIBUTION SERVICES W.O. 69171 W.O. 29922) FILE S-69-46

ADDED 200A U/G AT 335	AJC	SS	12 08 03
LSRW (JOB#31090)	QK	MD	10 08 24
UPDATED LOC 2958 & 2959 FROM 100KVA TO 50KVA	LUN	JUN	10 08 17
FWD FOR GIS CONVERSION	BUB	99 06 30	
GENERAL REVISION	BC	01 02 05	
ADD SWITCH NO	BC	01 02 03	
REVISED OFF SETS	BC	01 02 03	
PRIMARY REBUILD W/O BIDD	BC	01 01 21	
ALL SERV. NOTED	RP	02 06 73	
HOUSE NOS. ADDED	DIX	JUNE 16 70	
AS CONSTRUCTED	R.B.	1-28-70	
REVISED SCHEMATIC	R.B.	11-28-68	
REVISED PER M & M	DIX	5-26-66	
REVISION	DATE		

THE OAKVILLE PUBLIC UTILITIES COMMISSION

EDENBRIDGE CONSTRUCTION
U/G HYDRO LAYOUT

SCALE: 1" = 40'

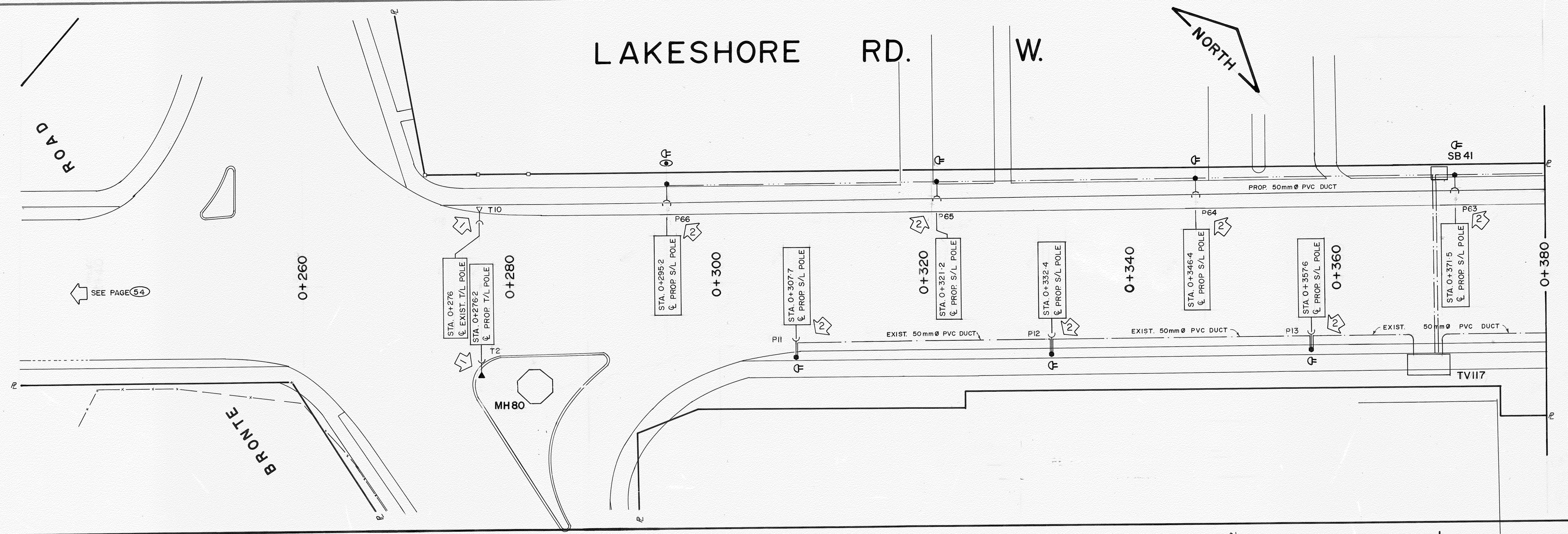
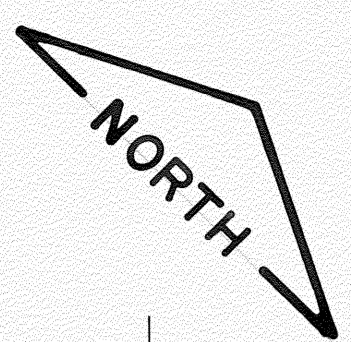
DATE: JUNE 13, 1969

DRAWN: E.R.C. TRACED: DATE: CHECKED: DATE:

GENERAL MANAGER: ENGINEER: SC

DRAWING NO: UH-761

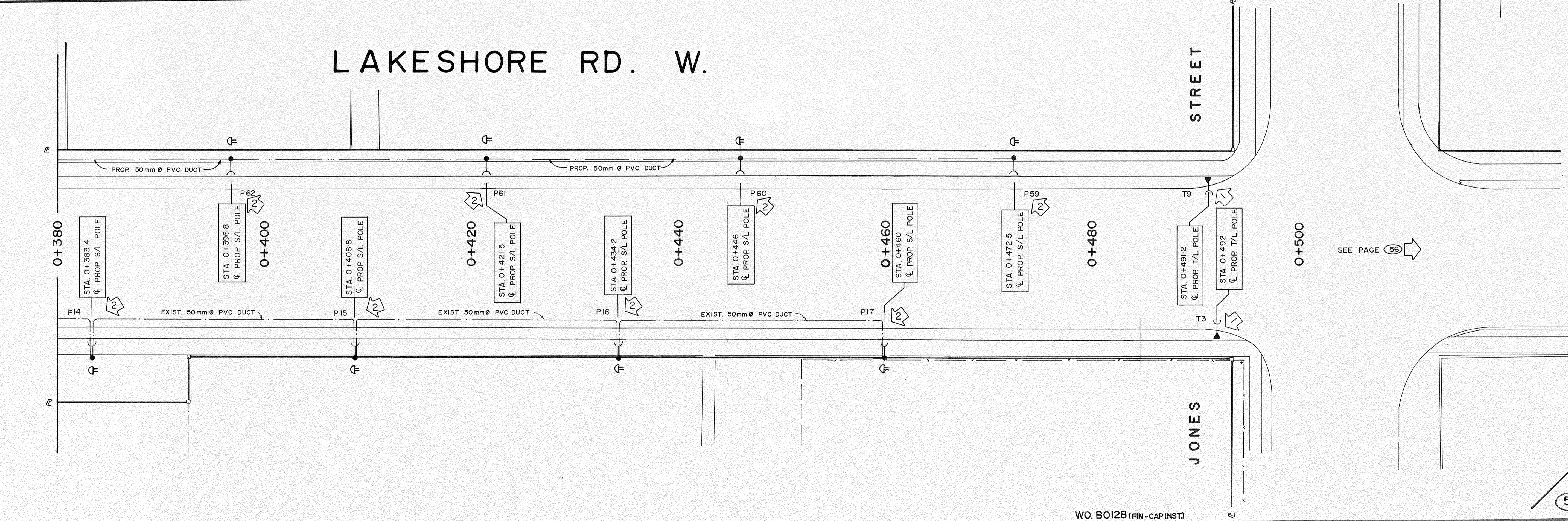
LAKESHORE RD. W.



LAKESHORE RD. W.

STREET

JONES



SEE PAGE 56

WO. B0128 (FIN-CAP INST)

LEGEND

150 W HPS (KING LUM.) C/W 1-7m ARM & 7.6m STRESS-CRETE CLASSICAL CONC. POLE	
150 W HPS C/W 2.5m ARM & 9.9m CONC. POLE	
EXISTING 50mm CONDUIT & INSTALLATION OF NEW 2-#4Cu S/L CABLE	
PROPOSED 50mm CONDUIT & 2-#4Cu S/L CABLE	
7.6m AL. TRAFFIC LIGHT POLE C/W 150W HPS (KING LUM.) & 1-7m ARM	
SEPARATE PHOTO CONTROL-GTE SYLVANIA NO.7001 RIPLEY N.W. RECEPTACLE	

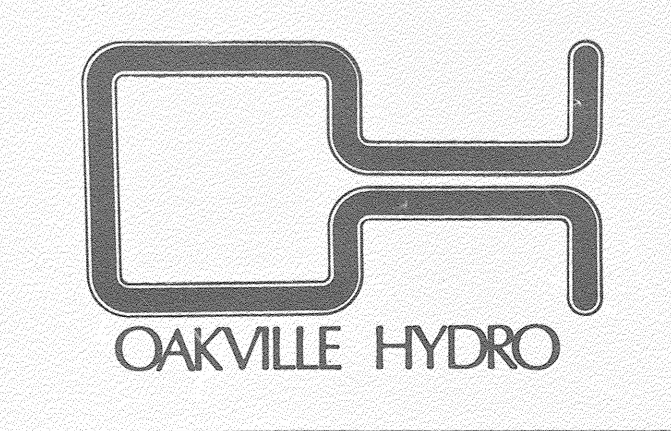
NOTES

- ARM & FIXTURE TO BE SUPPLIED BY O.H.E.C. AND INSTALLED BY TOWN OF OAKVILLE TRAFFIC DEPARTMENT
- INSTALL NEW STREETLIGHT POLE AND TIE INTO EXISTING 50mm Ø CONDUIT

FILE	1989 S/L	WO. B 0018
TENDER	PT. 89-32	
DRAWN	YV/BC	89 06 15
CHK'D.	<i>Amelunett 890818</i>	
DESIGN BY	<i>RWB</i>	
DIRECTOR OF ENGINEERING & OPERATIONS	<i>N. Sandford</i>	

REVISIONS

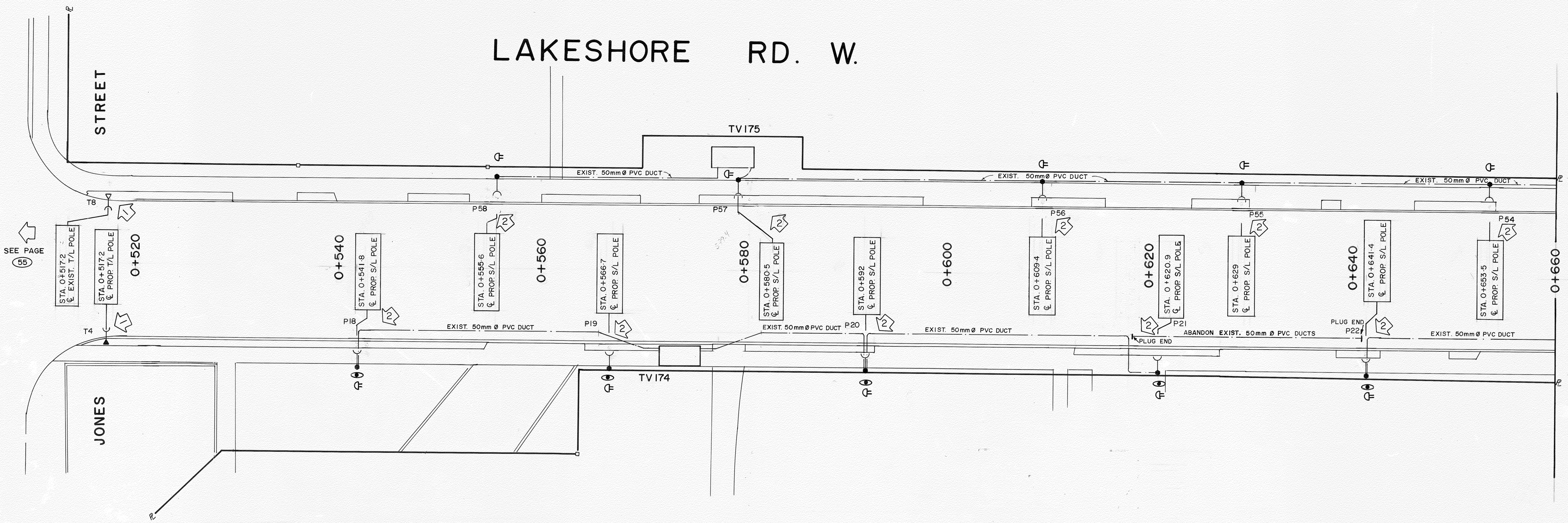
93 02 18	REC. WO. B0128	JBD
90 11 26	AS CONSTRUCTED	YV



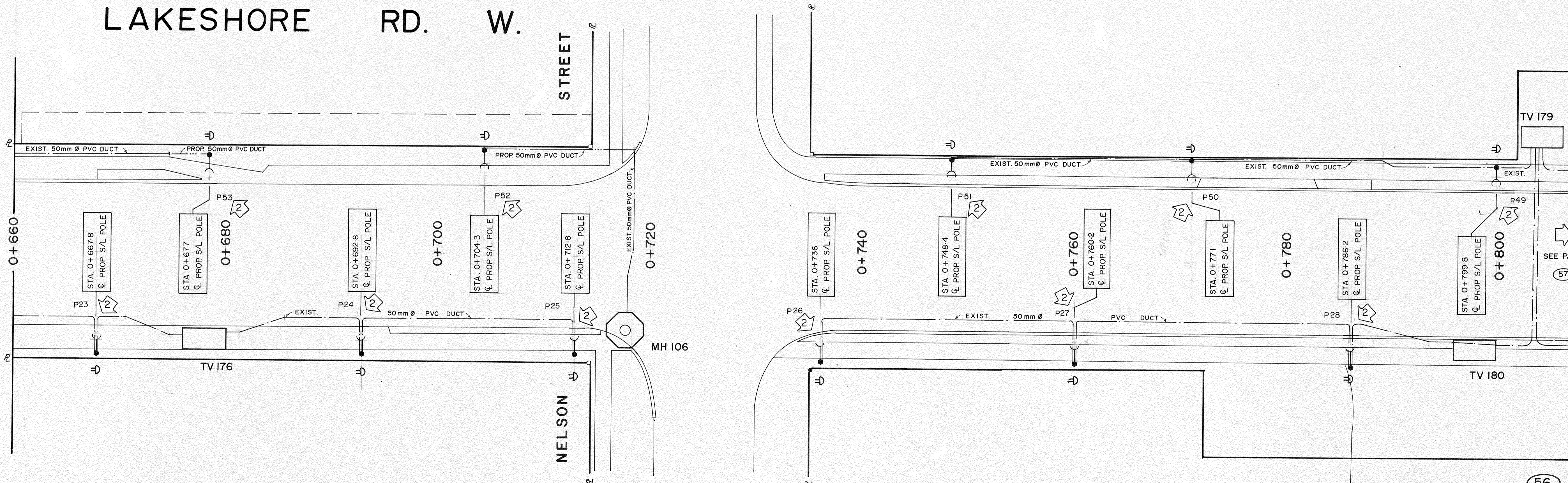
BRONTE CENTRAL BUSINESS DISTRICT
STREET LIGHTING SYSTEM
 LAKESHORE RD. W. - 12 MILE CREEK TO FUTURE RIGGS ROAD

SCALE 1:200
 DRAWING NO. UH-1439-B

LAKESHORE RD. W.



LAKESHORE RD. W.



LEGEND

- 150 W HPS (KING LUM.) C/W 1.7m ARM & 7.6m STRESS-CRETE CLASSICAL CONC. POLE
- 150 W HPS C/W 2.5m ARM & 9.9m CONC. POLE
- EXISTING 50mm CONDUIT & INSTALLATION OF NEW 2-#4 Cu S/L CABLE
- PROPOSED 50mm CONDUIT & 2-#4 Cu S/L CABLE
- 7.6m AL TRAFFIC LIGHT POLE C/W 150W HPS (KING LUM.) & 1.7m ARM
- SEPARATE PHOTO CONTROL - GTE SYLVANIA NO. 7001 RIPLEY N.W. RECEPTACLE



ARM & FIXTURE TO BE SUPPLIED BY O.H.E.C. AND INSTALLED BY TOWN OF OAKVILLE TRAFFIC DEPARTMENT

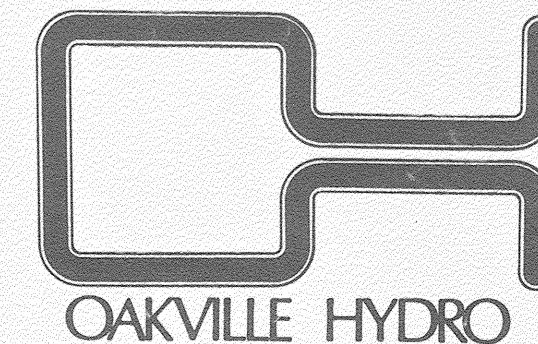


INSTALL NEW STREETLIGHT POLE AND TIE INTO EXISTING 50mm Ø CONDUIT

NOTES

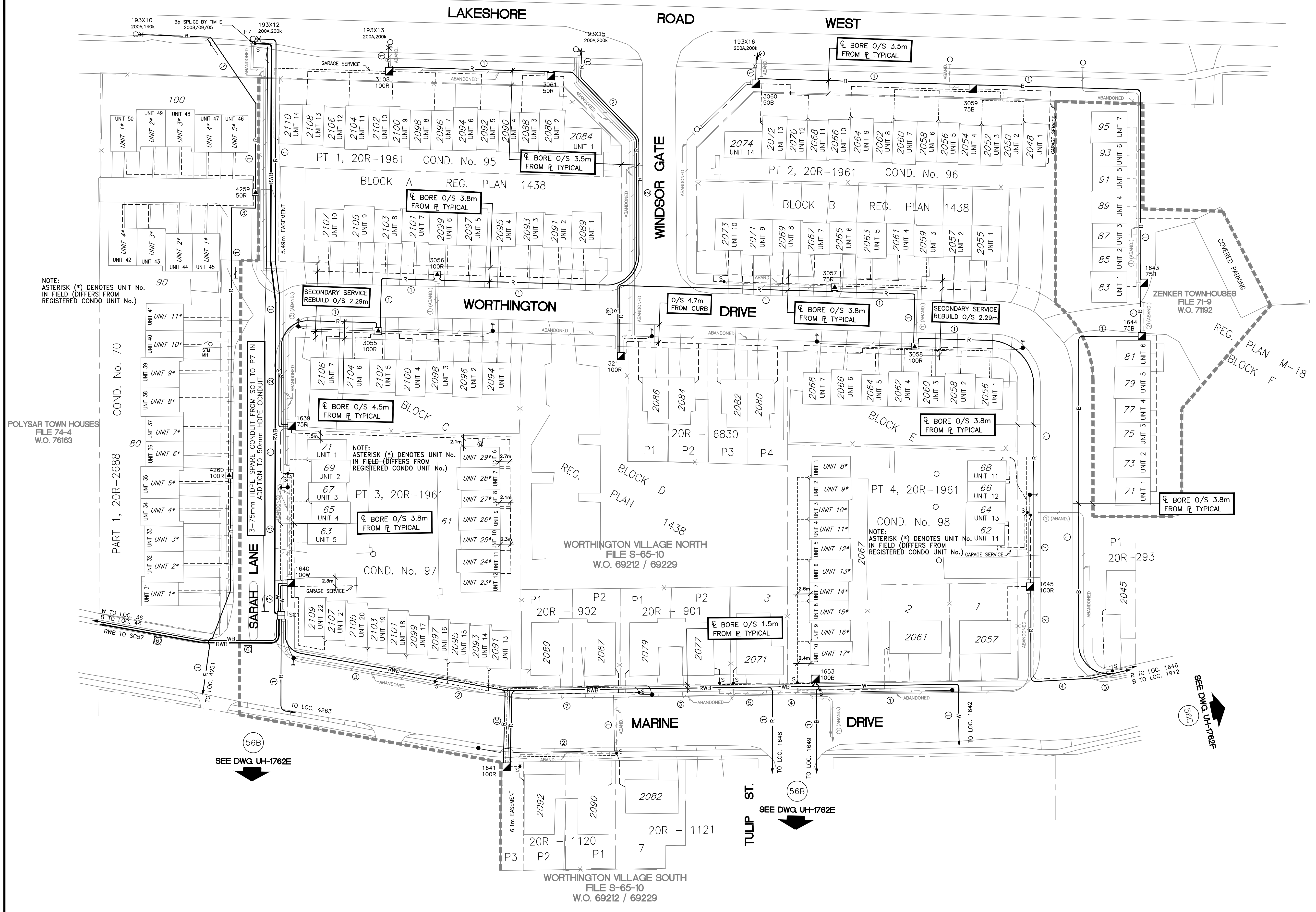
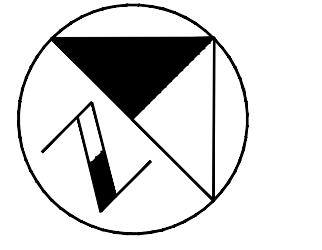
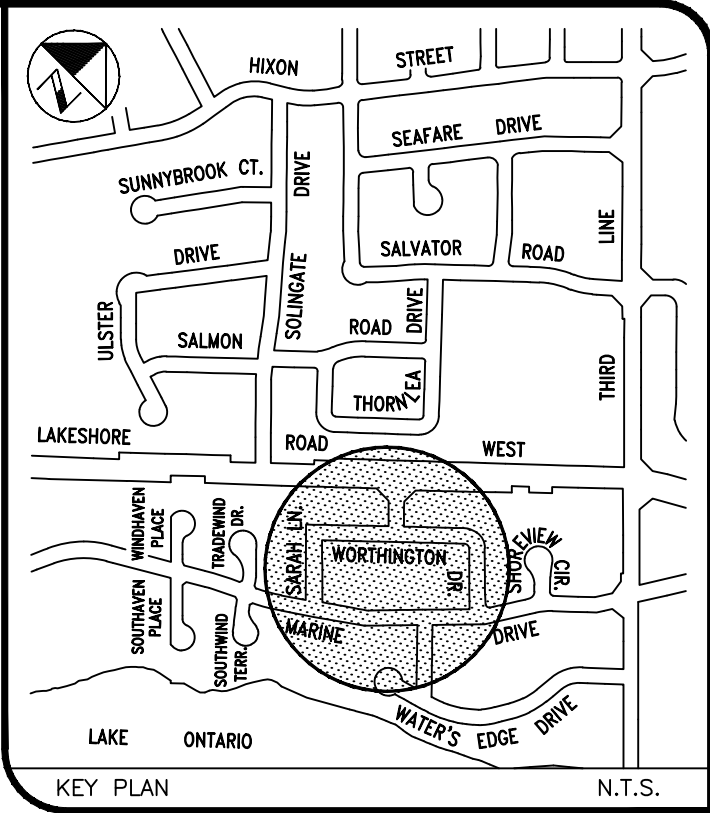
W.O. B 0128 (FIN CAP INST.)

FILE	1989 S/L	W.O. B 0018
TENDER	P.T. 89-32	
DRAWN	YV/BC	89 06 15
CHK'D.	<i>[Signature]</i> 89 08 18	
DESIGN BY	<i>[Signature]</i>	
93 11 25	ADD. RECEPTACLES PER 93 S/L PROG.	JBD
93 02 18	REC. W.O. B 0128	JBD
90 11 26	AS CONSTRUCTED	YV
REVISIONS		
DIRECTOR OF ENGINEERING & OPERATIONS <i>[Signature]</i>		



BRONTE CENTRAL BUSINESS DISTRICT STREET LIGHTING SYSTEM
LAKESHORE RD. W. - 12 MILE CREEK TO FUTURE RIGGS ROAD

SCALE 1:200 DRAWING NO. UH-1439-C



NOTE:
ASTERISK (*) DENOTES UNIT No.
IN FIELD (DIFFERS FROM
REGISTERED CONDO UNIT No.)

NOTE:
ASTERISK (*) DENOTES UNIT No.
IN FIELD (DIFFERS FROM
REGISTERED CONDO UNIT No.)

NOTE:
ASTERISK (*) DENOTES UNIT No.
IN FIELD (DIFFERS FROM
REGISTERED CONDO UNIT No.)

LEGEND

—RWB—	3-500 kcmil 15KV XLPE PRIMARY CABLE
—R—	1/0 15KV XLPE DIRECT BURIED PRIMARY CABLE
- - - - -	U/G SECONDARY SERVICE
- - - - -	3/0 AL TRIPLEX U/G SECONDARY SERVICE
- - - - -	1/0 AL TRIPLEX U/G SECONDARY CABLE
- - - - -	U/G 2-#4 Cu. STREETLIGHT CABLE
○	DIRECT BURIED 100mm Ø PVC DUCT/50mm Ø HDPE CONDUIT
•S	CABLE SPLICE

NOTES

▲	SUBMERSIBLE TRANSFORMER
■	PADMOUNT TRANSFORMER
□	PADMOUNTED SWITCHGEAR
●	STREET LIGHT POLE
●+	STREET LIGHT POLE C/W 100W HPS LUMINAIRE ON 8" TAPERED ELLIPTICAL ARM

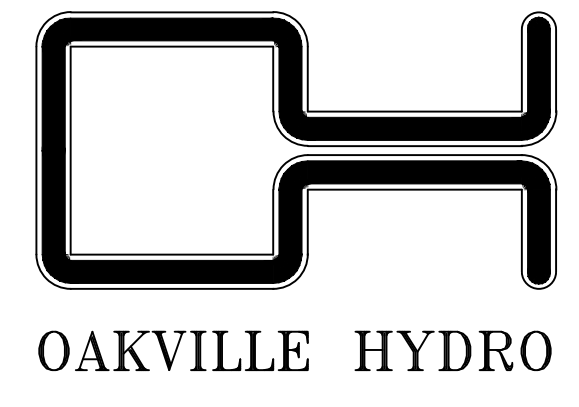
NOTES

- ☐ TRENCH OFFSET 2.59m FROM PROPERTY LINE UNLESS OTHERWISE NOTED.
- FOR REBUILD DETAILS SEE CONSTRUCTION DRAWING UH-1762A.

REVISIONS

DATE	DESCRIPTION	BY	CHKD
10 08 24	ADDED SPLICE ON Bφ EXPRESS AT BASE OF POLE P7 LAKESHORE RD. W. FORWARD FOR GIS CONVERSION	JCK	
06 11 27	ADDED EXPRESS CABLE FROM SC1 TO POLE P7	JIG	
05 08 17	REV. CONDO UNIT Nos 61, 80, 90 & 100 SARAH LANE AND 2067 MARINE DR.	BCH	
05 03 11	REVISED 61 SARAH LANE UNITS 23-29 AND 2067 MARINE DR. UNITS 8-17	JCK	

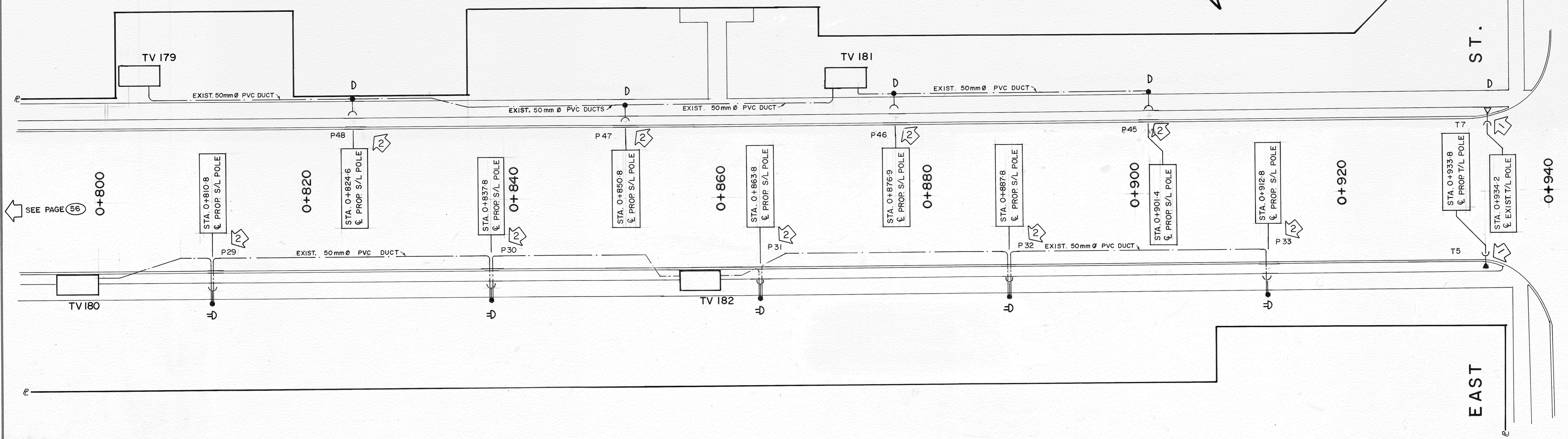
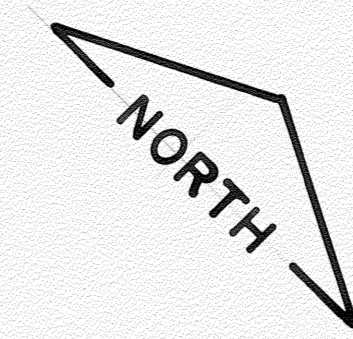
FILE	S-65-10 S-66-16, 71-9	W.O.	
DESIGNED	B.C.	QUOTATION	
DRAWN	B. CHEESEMAN	DATE	02 04 23
DESIGN		CHK'D.	
APPROVED			
DIRECTOR OF ENGINEERING	<i>D. Stale</i>		



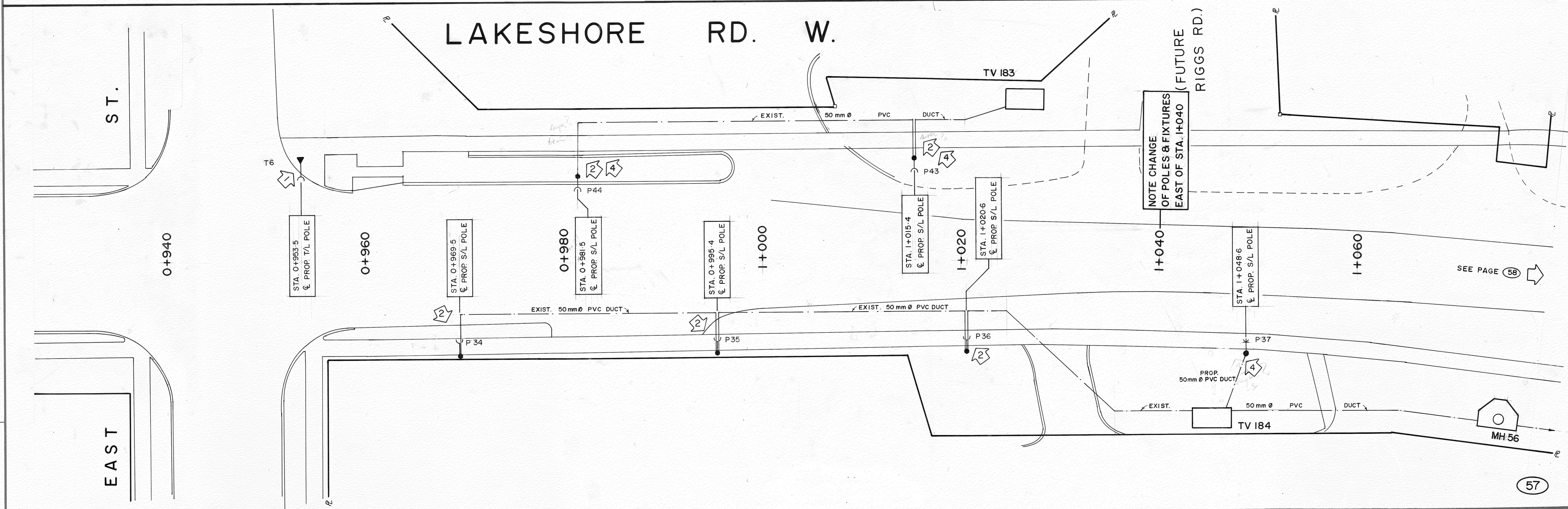
WORTHINGTON VILLAGE
WORTHINGTON DR., SARAH LANE
WINDSOR GATE & MARINE DR.
U/G HYDRO DISTRIBUTION

SCALE: 1 : 500
DRAWING NO.: UH-1762D

LAKESHORE RD. W.



LAKESHORE RD. W.

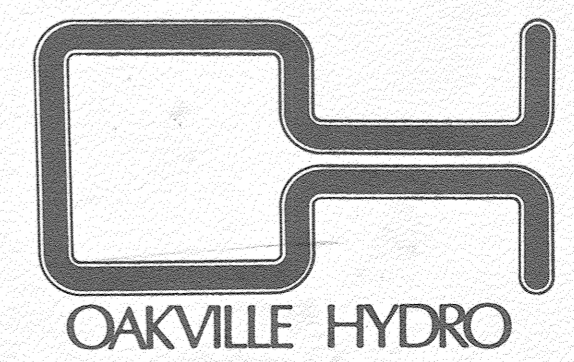


LEGEND

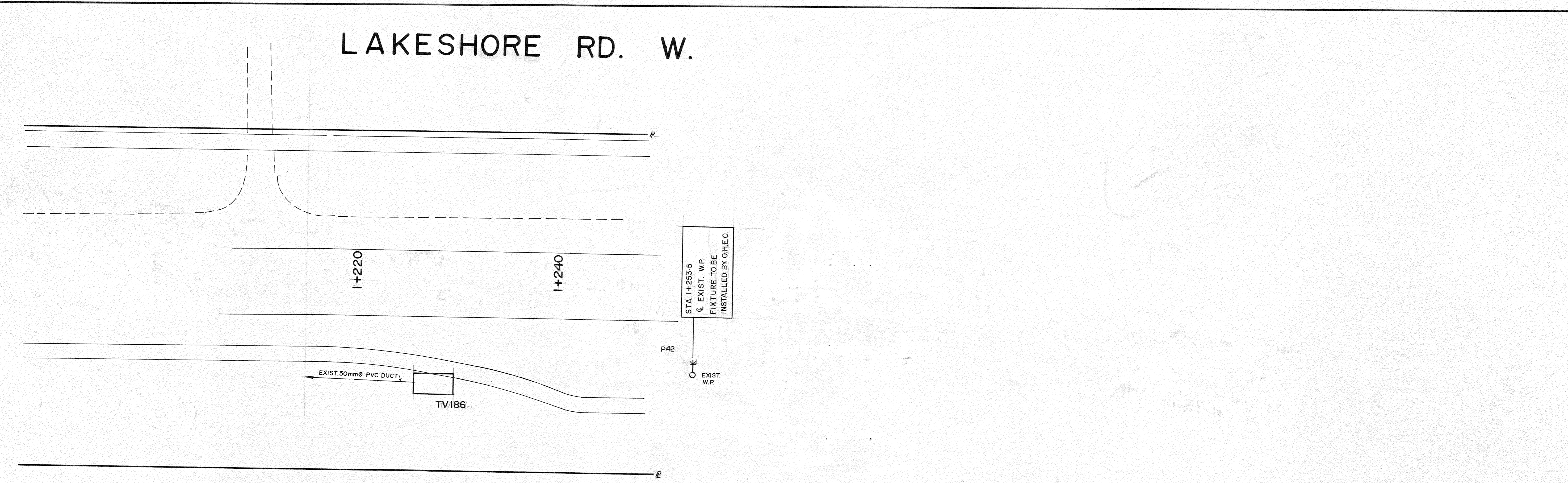
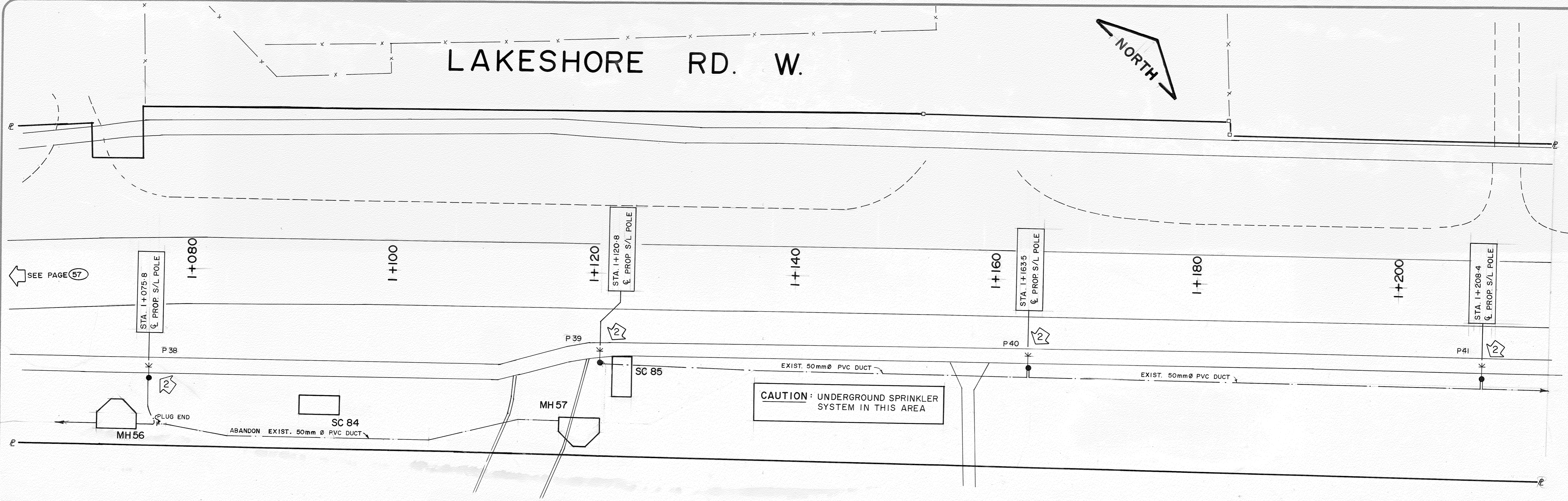
- 150 W HPS (KIN LUM.) C/W 1.7m ARM & 7.6m STRESS-CRETE CLASSICAL CONC. POLE
- 150 W HPS C/W 2.5m ARM & 9.9m CONC. POLE
- EXISTING 50mm CONDUIT & INSTALLATION OF NEW 2-#4 Cu S/L CABLE
- PROPOSED 50mm CONDUIT & 2-#4 Cu S/L CABLE
- 7.6m AL. TRAFFIC LIGHT POLE C/W 150W HPS (KING LUM.) & 1.7m ARM

- NOTES
- 1 ARM & FIXTURE TO BE SUPPLIED BY O.H.E.C. AND INSTALLED BY TOWN OF OAKVILLE TRAFFIC DEPARTMENT
 - 2 INSTALL NEW STREETLIGHT POLE AND TIE INTO EXISTING 50mm CONDUIT
 - 4 AUGER & PLACE 50mm Ø PVC. DUCT

FILE	1989 S/L	W.O.	B 0018
TENDER	PT. 89-32		
DRAWN	YV/BC		89 06 15
CHK'D.	<i>[Signature]</i>		
DESIGN BY	<i>[Signature]</i>		
DIRECTOR OF ENGINEERING & OPERATIONS	<i>[Signature]</i>		



BRONTE CENTRAL BUSINESS DISTRICT STREET LIGHTING SYSTEM
 LAKESHORE RD. W. - 12 MILE CREEK TO FUTURE RIGGS ROAD
 SCALE 1:200
 DRAWING NO. UH-1439-D

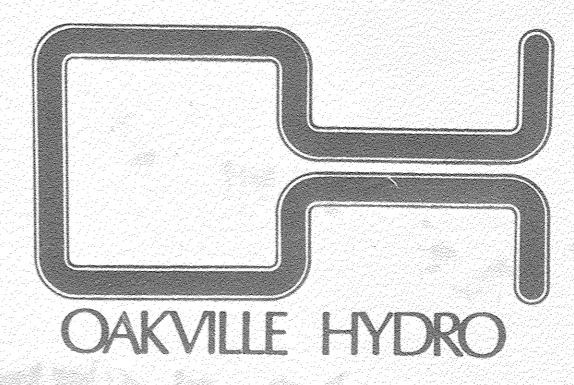


LEGEND

150 W HPS (KING LUM.) C/W 1.7m ARM & 7.6m STRESS-CRETE CLASSICAL CONC. POLE	
150 W HPS C/W 2.5m ARM & 9.9m CONC. POLE	
EXISTING 50mm CONDUIT & INSTALLATION OF NEW 2-#4 Cu S/L CABLE	
PROPOSED 50mm CONDUIT & 2-#4 Cu S/L CABLE	
7.6m AL. TRAFFIC LIGHT POLE C/W 150 W HPS (KING LUM.) & 1.7m ARM	
EXISTING WOOD POLE	

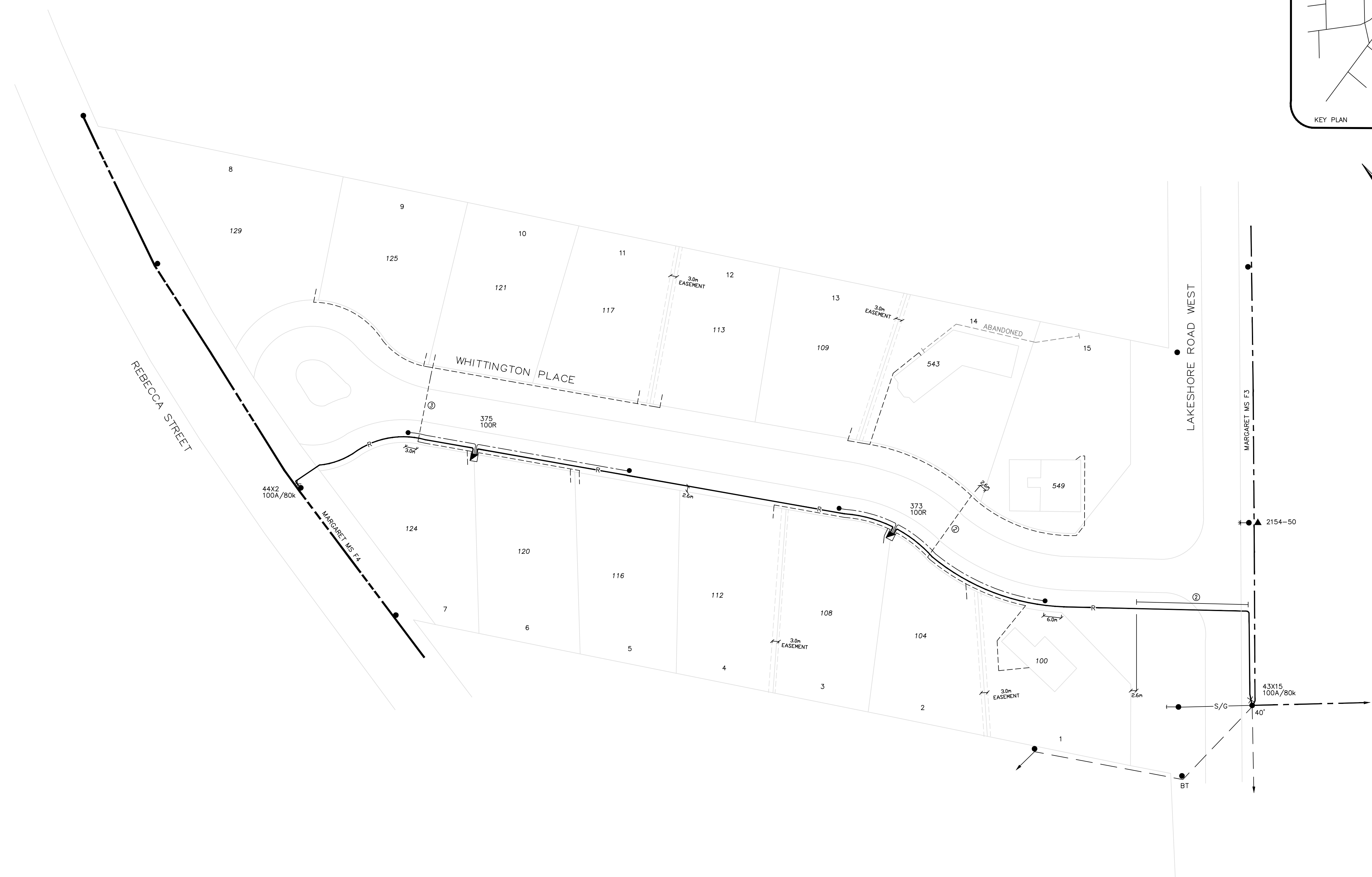
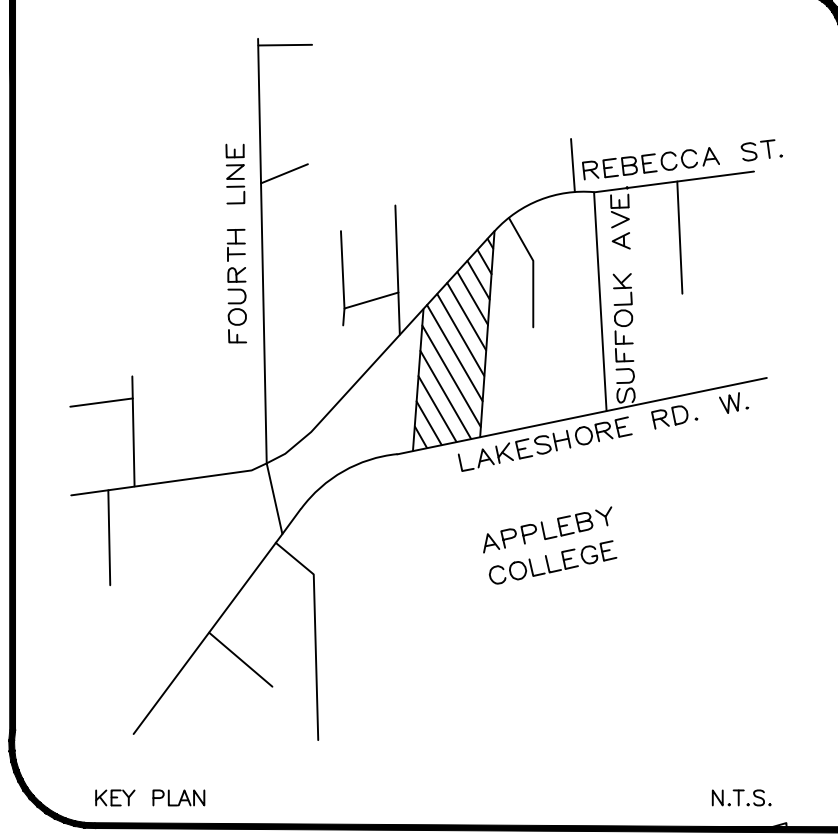
- NOTES**
- ARM & FIXTURE TO BE SUPPLIED BY O.H.E.C. AND INSTALLED BY TOWN OF OAKVILLE TRAFFIC DEPARTMENT
 - INSTALL NEW STREETLIGHT POLE AND TIE INTO EXISTING 50mm Ø CONDUIT

FILE 1989 S/L	W.O. B0018
TENDER: PT. 89-32	
DRAWN YV/BC	89 06 15
CHK'D. <i>[Signature]</i> 89 08 17	
DESIGN BY <i>[Signature]</i>	
90-11-26 AS CONSTRUCTED	YV <i>[Signature]</i>
REVISIONS	
DIRECTOR OF ENGINEERING & OPERATIONS <i>[Signature]</i>	



BRONTE CENTRAL BUSINESS DISTRICT
STREET LIGHTING SYSTEM
 LAKESHORE RD. W. - 12 MILE CREEK TO FUTURE RIGGS ROAD

SCALE 1:200
 DRAWING NO. UH-1439-E



NOTE:
SEE OPERATING DRAWINGS
FOR ALL OPEN POINTS &
FAULT INDICATORS

ASSUMED

LEGEND

- R— 1/0 15kV Cu. XLPE UNDERGROUND PRIMARY CABLE
- 1# OVERHEAD PRIMARY CABLE
- - - - 2-3/0 & 1-1/0 AL. SECONDARY SERVICE
- - - - OVERHEAD SECONDARY SERVICE
- - - - 2-No.10 Cu. & GRD. STREETLIGHT WIRE
- 100KVA PADMOUNT TRANSFORMER 2400V
- ▲ OVERHEAD TRANSFORMER
- 7.6m CONCRETE STREETLIGHT POLE & 70W HPS LUMINAIRE
- 200W HPS LUMINAIRE ON 8' T.E. ARM
- ✕ SWITCH
- ⊙ No. OF 100mm PVC DIRECT BURIED DUCTS

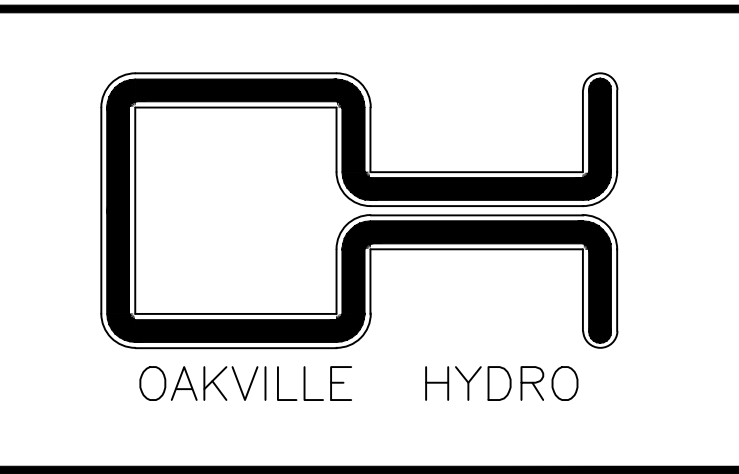
NOTES

1. OVERHEAD SERVICES TO 549 & 559 LAKESHORE RD. (LOTS 1 & 15) ARE TO BE REMOVED BY O.H.E.C.
2. PADMOUNTED TRANSFORMERS TO BE MOUNTED ON 2m x 2m EASEMENT AS PER STD. DWG. HS-205
3. ALL STREETLIGHT POLES TO BE INSTALLED AT 3.0m OFFSET FROM STREETLINE

REVISIONS

DATE	DESCRIPTION	BY	CHK'D
10.08.25	RELOCATED SEC SVC @ 549 WHITTINGTON PL PER LOCATES	MD	AKR
10.08.17	FWD FOR GIS CONVERSION	LJN	
04.06.14	REDRAW	LAG	AKR
90.12.18	CHANGED ST. No. IN LOTS 14, 15	YV	AKR
86.05.09	GENERAL REVISIONS	TG	AKR
85.09.13	AS CONSTRUCTED	DIX	AKR
85.06.14	CHANGED SERVICE ENTRANCE LOCATION @ LOTS 3, 7, 8	DIX	AKR

FILE S-78-125	W.O. 85078/H-8799
R.P. M-341	CONTRACTOR: ASSUMED: 90.06.20
DRAWN DIX 80.06.23	
CHK'D AKR 85.04.18	
DESIGN BY N. Sandford	
DIRECTOR OF ENGINEERING & OPERATIONS	

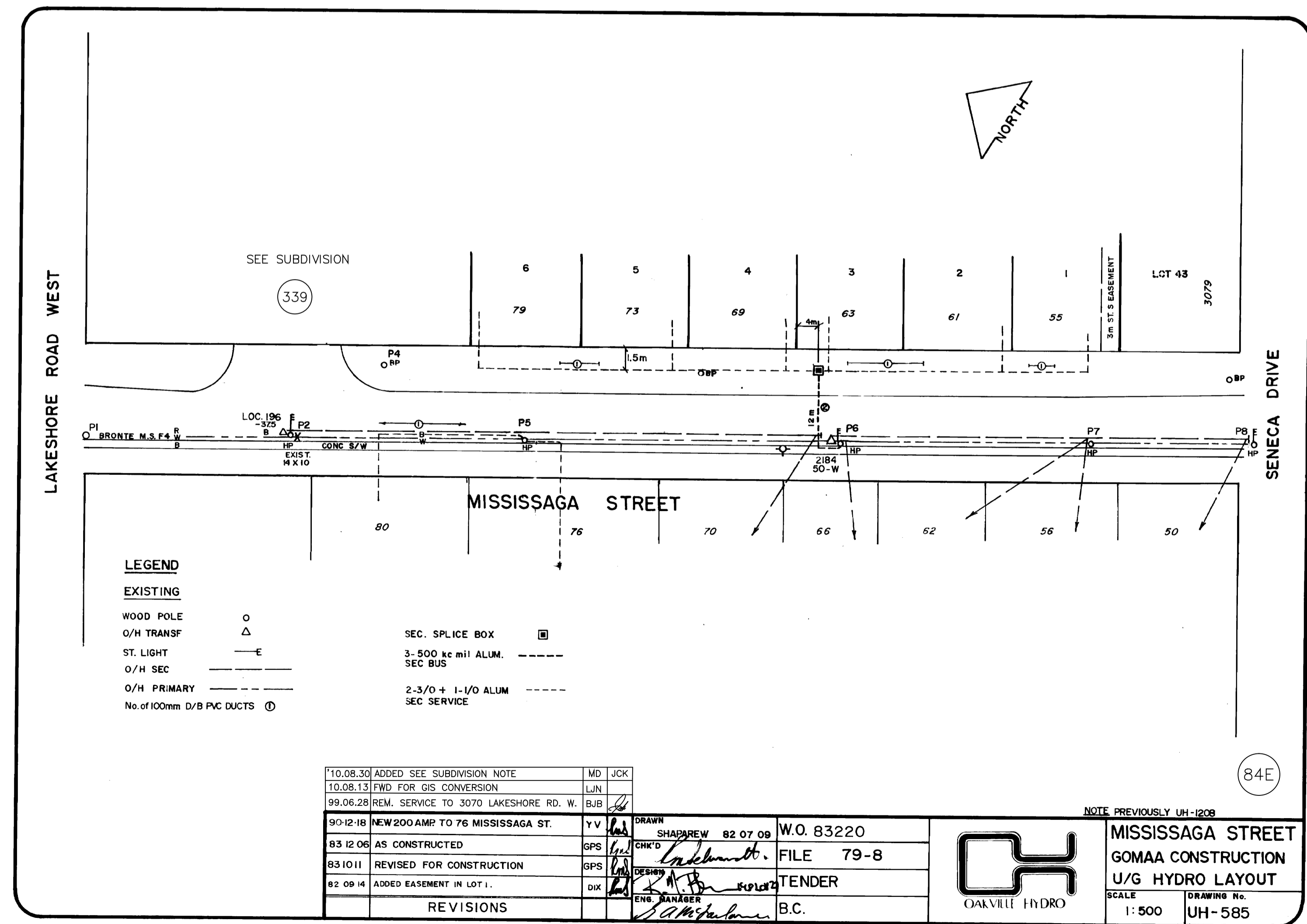
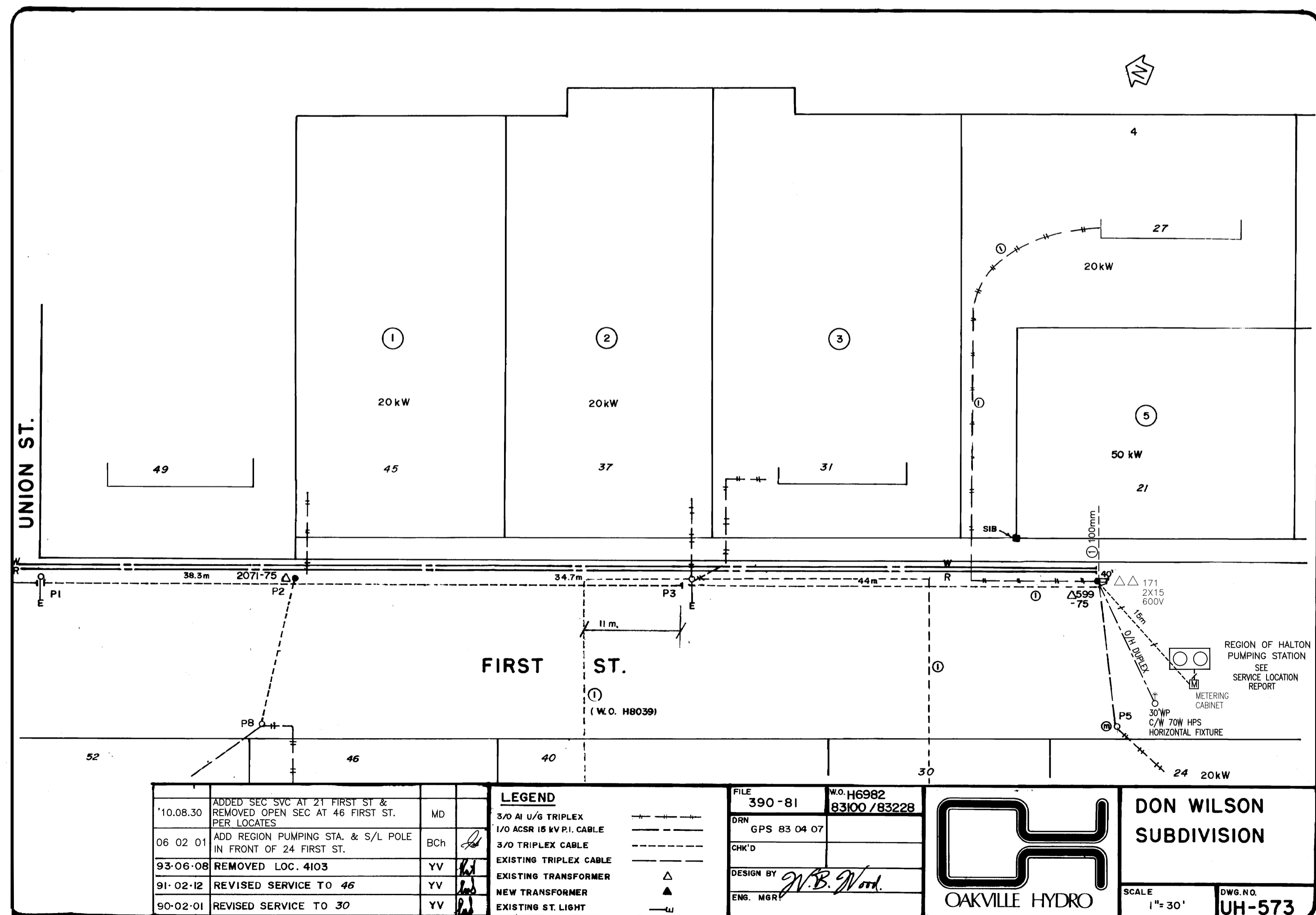
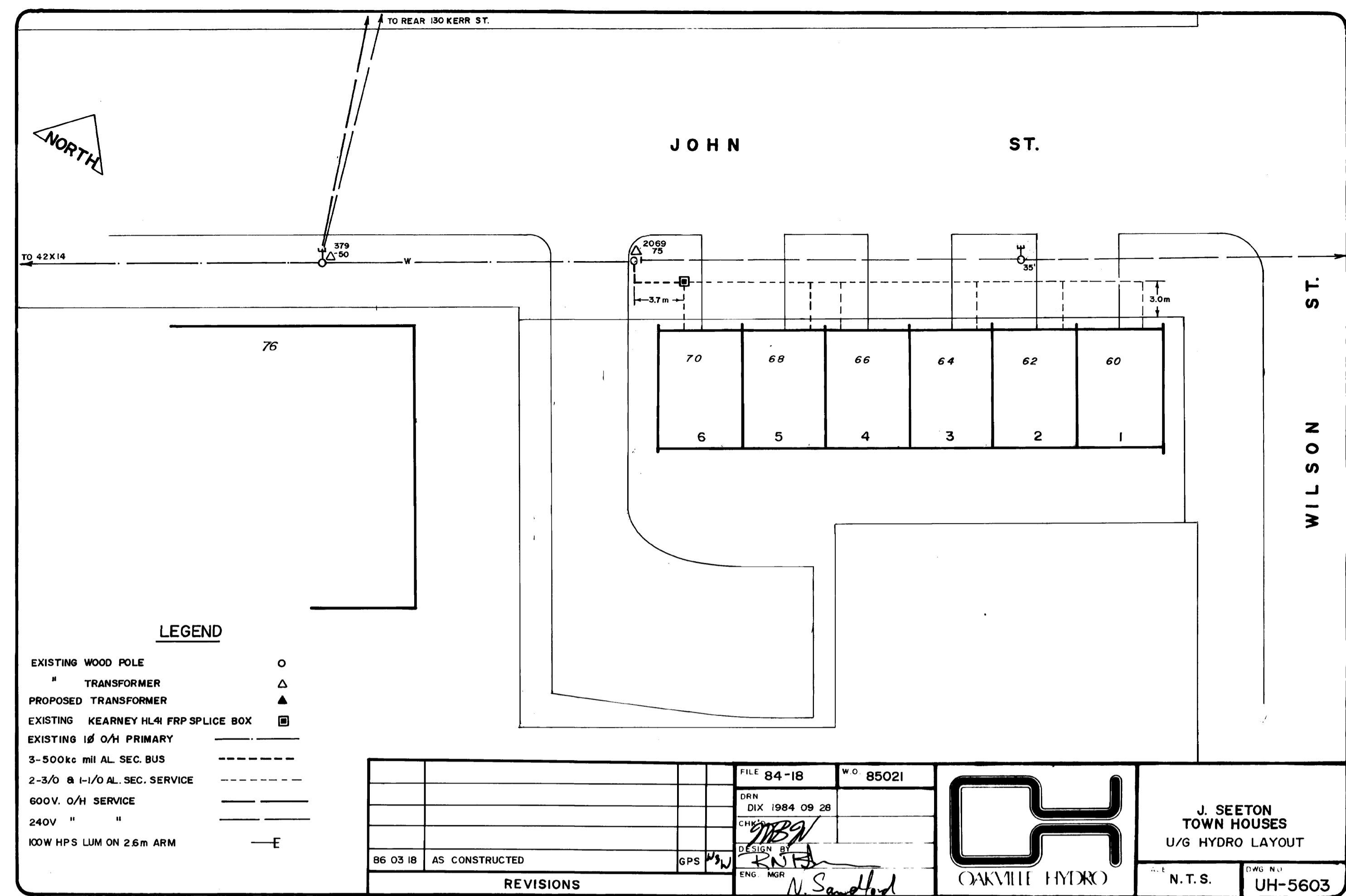
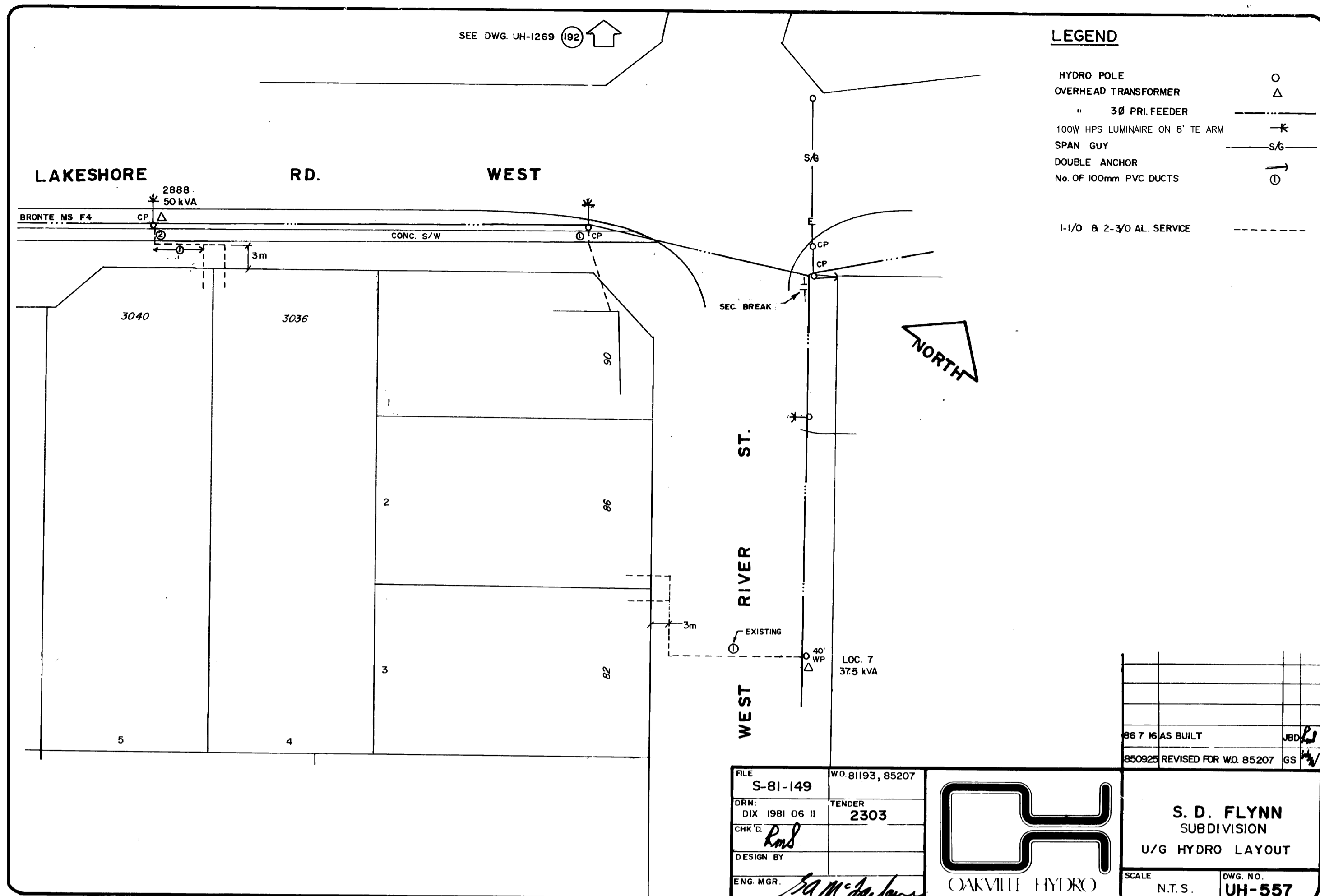


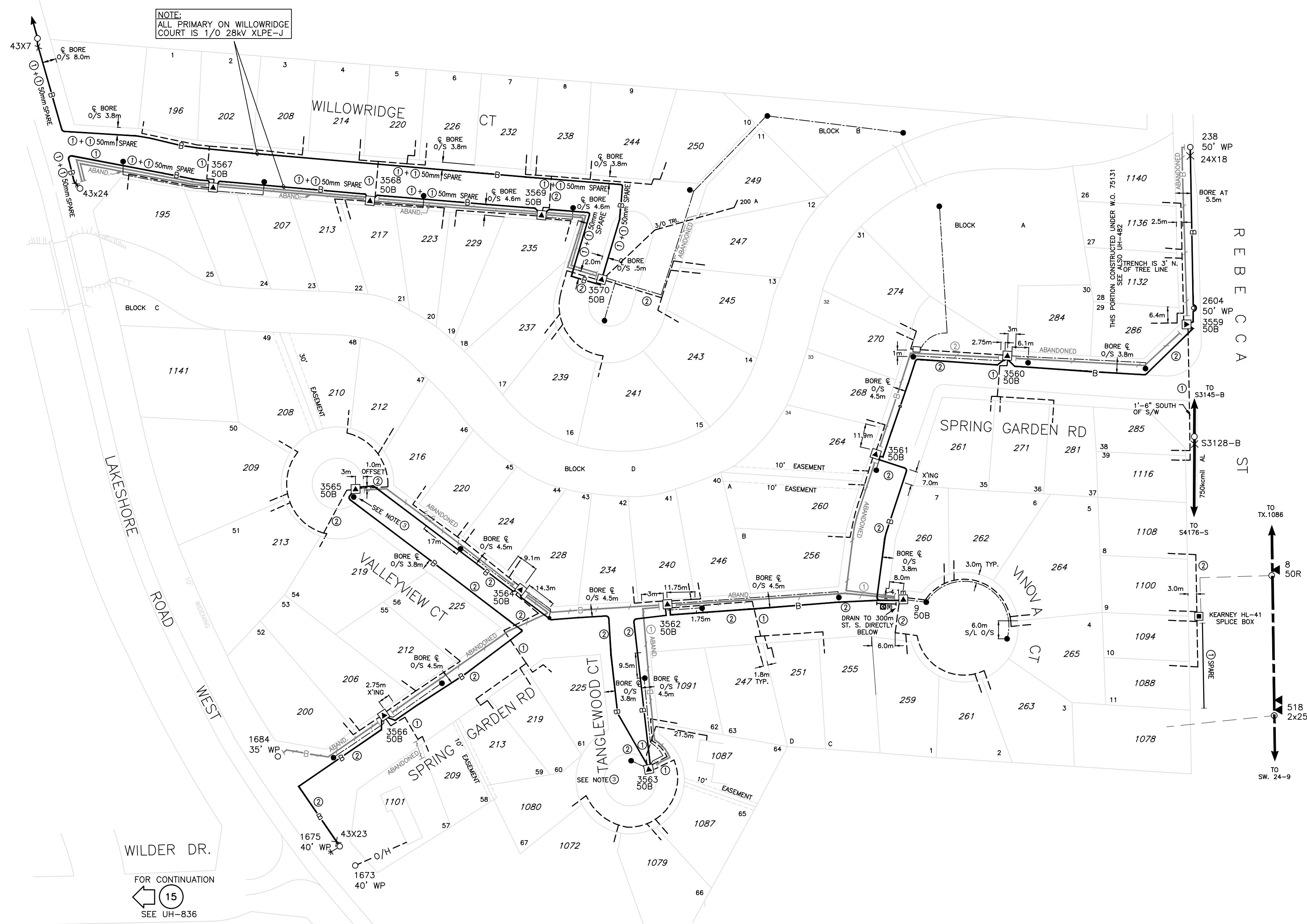
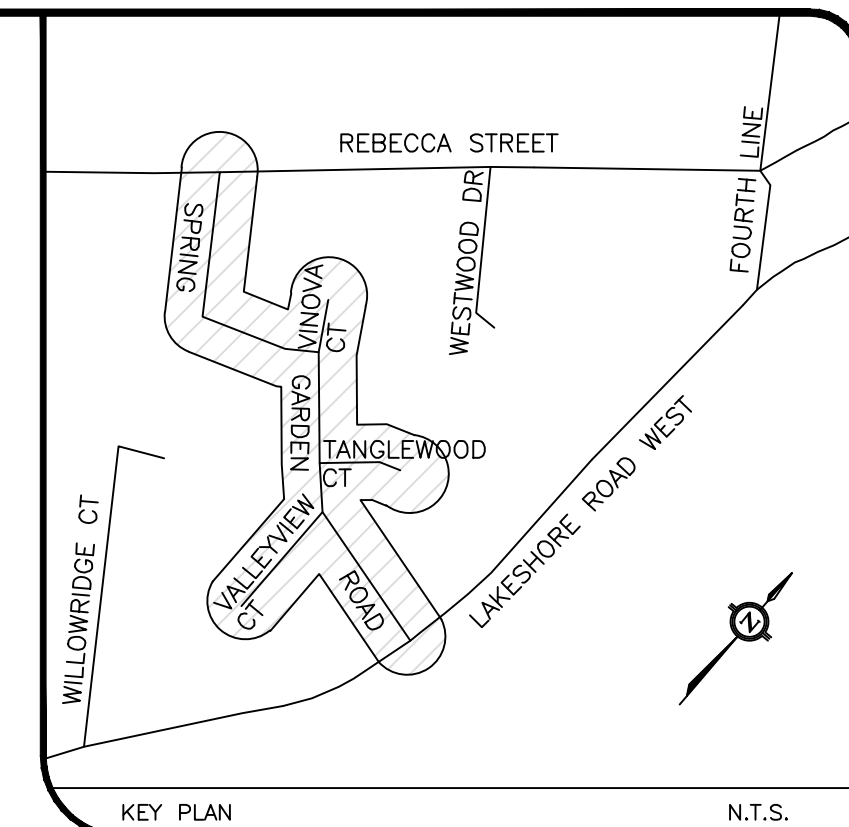
APPLEBY COLLEGE
SUBDIVISION
U/G HYDRO DISTRIBUTION

SCALE 1:1000

DRAWING NO. UH-1126

84E





LEGEND

- 336 kcmil AL 4KV O/H EXPRESS
- 750 kcmil AL 27.6KV U/G EXPRESS
- 1/0 AL 28KV PRIMARY CABLE IN 50mm HDPE DUCT
- ABANDONED 1/0 15KV, XLPE PRIMARY CABLE
- 1-1/0, 2-3/0 & 3-1/0 SEC. SERVICE
- 3-500 MCM AL. SEC. BUS
- 2-#4 S/L WIRE
- DUCT LIMIT
- ▲ OVERHEAD TRANSFORMER
- ▣ SUBMERSIBLE TRANSFORMER VAULT
- ▣ SPLICE BOX
- HYDRO POLE
- × SWITCH
- 400V HV LDM & 8' T.E. ARM
- 25' C.P.P. & 1000W HPS P.T.L.
- Ⓜ No. OF 100mm DUCTS CONC. ENCASED, STEEL REINF.
- Ⓜ No. OF 100mm P.V.C. DUCTS
- Ⓜ EX. No. OF 100mm P.V.C. DUCTS

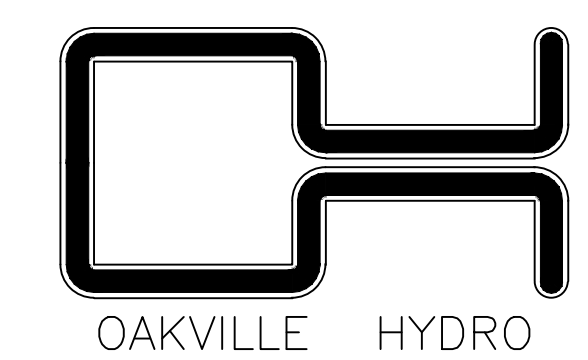
NOTES

1. TRANSFORMER VAULTS & CONC. POLES ARE TO BE INSTALLED AT MID LOT UNLESS OTHERWISE NOTED
2. SERVICE WIRES TO BE LOCATED 1.75m FROM SIDE LOT LINE UNLESS OTHERWISE DIMENSIONED
3. ALL S/L LUMINAIRES LOCATED ON CUL-DE-SACS TO BE EQUIPPED WITH TYPE V DISTRIBUTION
4. ALL TRANSFORMER VAULTS ARE DRAINED TO STORM SEWERS

NO.	DATE	DESCRIPTION	BY	CHECKED
2011.06.10		COMBINED MINOVA CT (JOB#81212), & SPRING GARDEN RD PRIMARY REBUILD (JOB#30036) WITH TERRACE HTS (JOB#73005/20289-1 TO 2) SUBDIVISION PAGE 97	MD	AJC
2010.08.13		FWD FOR GIS CONVERSION	LJN	
2006.07.10		PAGE REDRAWN & WILLOWRIDGE AS-BUILT	BJB	

REVISIONS

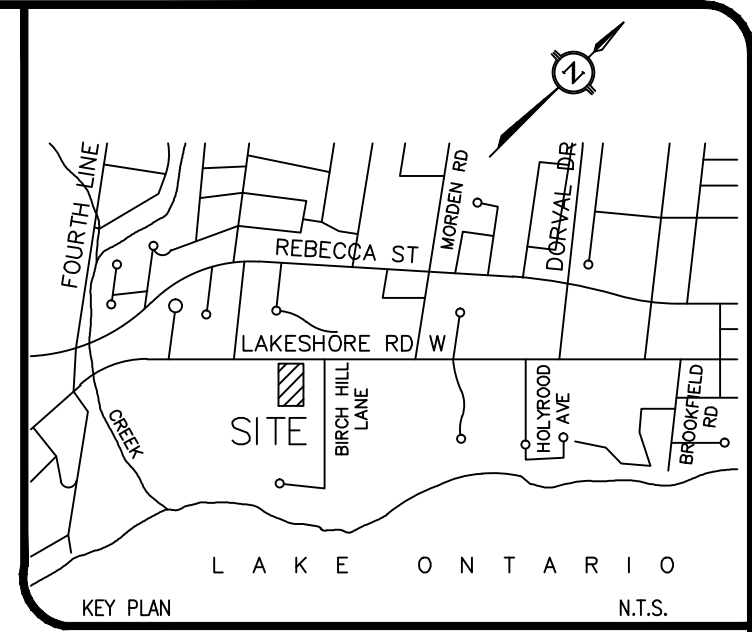
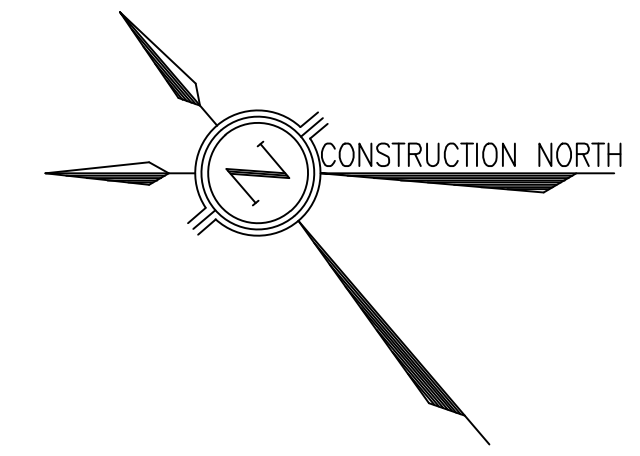
FILE: 06-030/S-69-47/10-244	W.O. 73005/20289-1,2/81212/30036
R.P. CO-ORDINATE 1524	CONTRACTOR ASSUMED:
DRAWN DIX/MD	DATE: '71/11/30 '81/06/08 NOV. '10
CHK'D.	DESIGN BY R. NOONAN/RNB/AVR
ENGINEERING MANAGER	RT GAYOWSKY/GAM/DPS



TERRACE HTS.,
MINOVA CT. &
SPRING GARDEN RD.
U/G HYDRO DISTRIBUTION

SCALE 1:1000 DRAWING NO. UH-882/UH-1164/UH-2159A

BIRCH HILL LANE



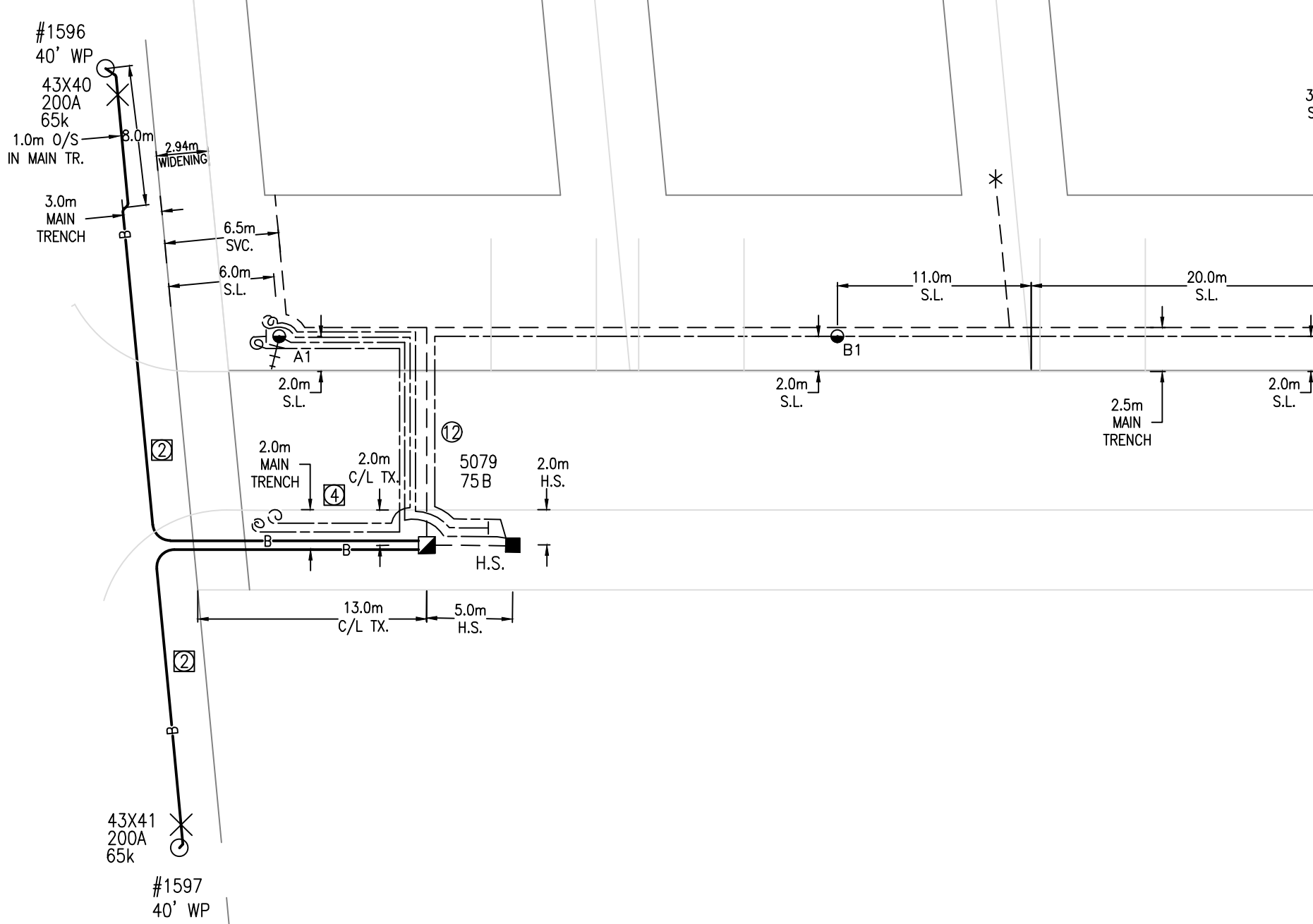
135A
UH-2144A

LAKESHORE ROAD WEST

FOR CONTINUATION
SEE DWG. UH-1204

FOR CONTINUATION
SEE DWG. UH-1036

FOR CONTINUATION
SEE DWG. UH-1077



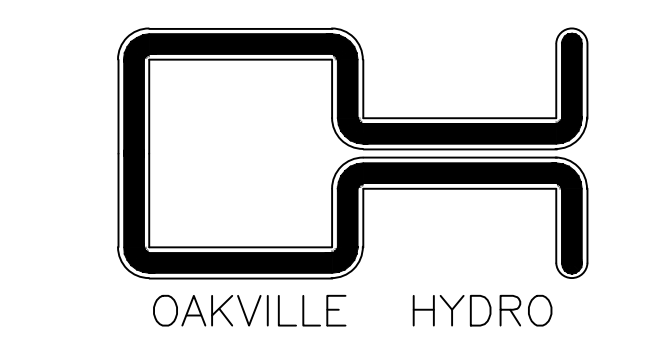
STREETLIGHTING IS PRIVATE AND METERED

LEGEND

	75kVA - 2400 - 120/240V MINI PAD TRANSFORMER.
	1-1/0 AL 28KV TRXLPEI PVCJ PRIMARY CABLE AND PHASE CONTINUOUS IN C.E. 100mm PVC TYPE 2 DUCT
	3-3/0 AL 600V XLPEI PVCJ SECONDARY CABLE IN DB 100mm PVC TYPE 2 DUCT
	No. of 100mm PVC CONCRETE ENCASED DUCT REINFORCED.
	No. of 100mm PVC DIRECT BURIED DUCTS OR 50mm IF DENOTED.
	FREE STANDING METERED HOUSE SERVICE PANEL
	PRIVATE STREETLIGHT CABLE TO BE 2-#6 Cu. NMWU C/W 1-#10 Cu. CSA GROUND CABLE INSTALLED IN 50mm D.B. PVC TYPE 2 DUCT.
	PRIVATE DECORATIVE STREETLIGHT DESCRIPTION: LUMINAIRE: MANUFACTURED BY KING LUMINAIRE COMPANY INC. CAT. # K601-T-HAC-III-70(MOG)-HPS-120-2-G-PE-F4-CSA C/W INDIVIDUAL PHOTO CONTROL. POLE: MANUFACTURED BY STRESS/CRETE LTD. CAT.# KCC15-G-S11 C/W 140-35/35.

- +++ GROUNDING TO BE INSTALLED AT LAST LIGHT ON EACH CIRCUIT PER E.S.A.
- MUNICIPAL R.O.W.**
- ALL SERVICES & S/L TO BE LOCATED 2.0m FROM SIDE LOT LINES UNLESS OTHERWISE NOTED * INDICATES SERVICE OFFSET IS 1.0m
 - ALL TRENCH OFFSETS TO BE 3.0m FROM ST. LINE & 3.5m FOR ST.L.T. POLES UNLESS OTHERWISE NOTED.
- PRIVATE LANEWAY & DEVELOPMENT**
- ALL TRENCH OFFSETS TO BE 2.5m FROM BACK OF CURB TO CENTRE UNLESS OTHERWISE NOTED.
 - STREETLIGHT OFFSETS TO BE 2.0m FROM BACK OF CURB TO CENTRE UNLESS OTHERWISE NOTED.
 - TRANSFORMER OFFSETS TO BE 2.0m FROM BACK OF CURB TO CENTRE UNLESS OTHERWISE NOTED.
 - ROAD X'ING. TO BE LOCATED AT CENTRELINE OF TRANSFORMER UNLESS OTHERWISE NOTED.
 - MAINTENANCE OF PRIVATE LIGHTING SYSTEM IS BY OTHER THAN OAKVILLE HYDRO. INSPECTION OF PRIVATE SYSTEM IS UNDER ELECTRICAL SAFETY AUTHORITY INSPECTION JURISDICTION.
 - PRIMARY CABLE IS TO BE INSTALLED IN A 100mm PVC TYPE 2 DUCT, CONCRETE ENCASED & STEEL REINFORCED. SECONDARY CABLE IS TO BE INSTALLED IN A 100mm PVC D.B. DUCT.

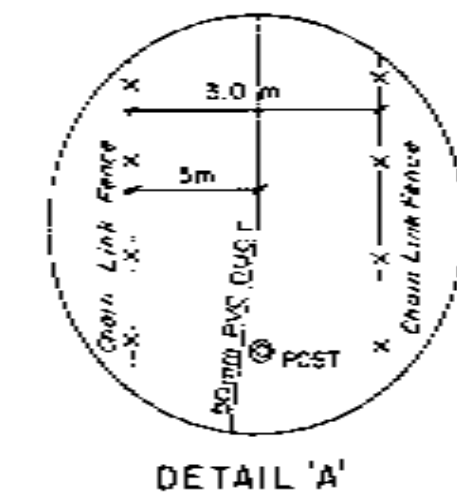
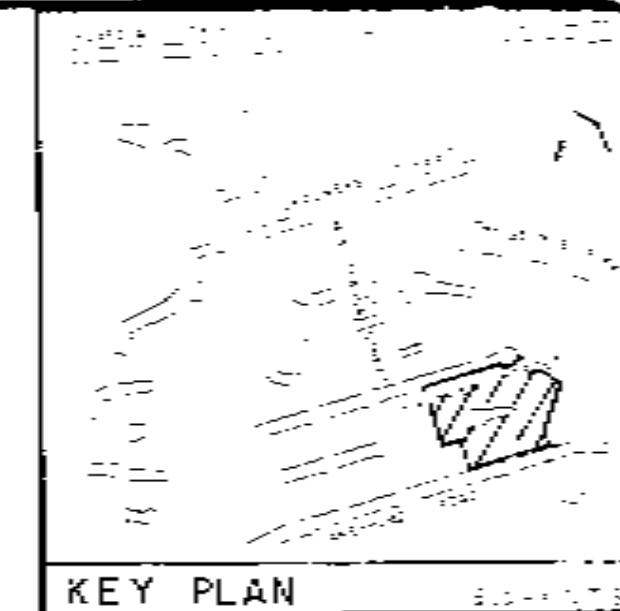
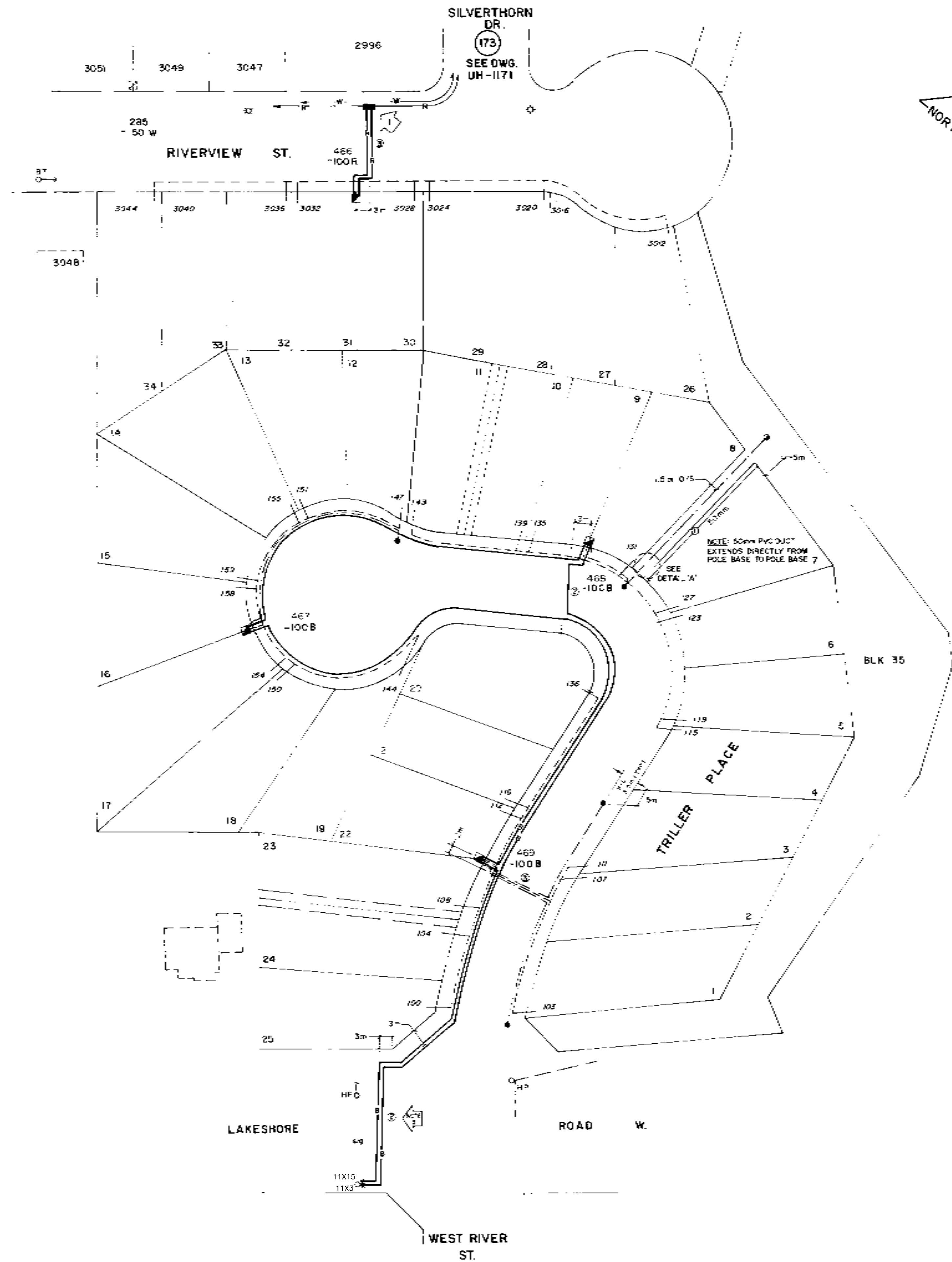
FILE: S-10-432		JOB: 21826-1 & 2	
2011.01.13	AS-BUILT PER HYDRO	MD	AJC
2011.01.03	AS-CONSTRUCTED BY CON-ELCO	H.P.B.	H.J.M.
2010.11.24	ADD STREETLIGHT CIRCUIT FOR DECORATIVE WALL UPLIGHTING	H.P.B.	H.J.M.
2010.08.09	REV. PER HYDRO COMMENTS RECEIVED 2010.08.09	H.P.B.	H.J.M.
2010.07.27	REV. PER HYDRO COMMENTS RECEIVED 2010.07.27	H.P.B.	H.J.M.
REVISIONS		DESIGN BY: H.J.M. DIRECTOR OF ENGINEERING	



456 LAKESHORE ROAD WEST
THE ENCLAVE AT BIRCH HILL
5 UNITS
HYDRO DISTRIBUTION & PRIVATE STREETLIGHTING SYSTEM

SCALE: 1:300
DRAWING NO.: UH-2144A

135A



ASSUMED 192

LEGEND

PROPOSED 1/2 15KV DU ALPE PVCJ	---
EXISTING	---
2-3/0 & 1/0 AL SEC. SERVICE	---
2-100mm PVC GROUND STREETLIGHT WIRE	---
PROPOSED 7.8m CONC STREETLIGHT POLE @ 70W HPS	---
EXISTING	---
EXISTING PAD MOUNTED TRANSFORMER 50 KVA 2400/120/240	---
WOOD POLE	---
PROPOSED PAD MOUNTED TRANSFORMER 50 KVA 2400/207/240	---
5m CONC PARKLIGHT POLE @ 70W HPS	---
NO. OF 100mm PVC DIRECT BURIED DUCTS	---
CONC ENCASED DUCTS (R-REINFORCED)	---

- NOTES**
- OAKVILLE HYDRO TO ISOLATE R @ AND SPLICE CABLE.
 - ALL SA. POLES & RO. KING'S ARE 2M OFF LOT L.W. UNLESS NOTED OTHERWISE.
 - 2-100mm PVC TYPE 2 DUCTS ARE TO BE ADJURED & PLACED ACROSS LAKESHORE RD WEST.
 - ALL TRENCH OFFSETS TO BE 3M OFF P.V.L UNLESS NOTED OTHERWISE.
 - ALL PADMOUNT TRANSFORMERS TO BE INSTALLED ON 2m X 2m EASEMENT AS PER STD. 1948 HS 205



REVISIONS

10-11-02	ADDED SW.11X3 AND SW.11X15, REMOVED OPEN POINT REFERENCE	JIG
10.08.17	FWD FOR GIS CONVERSION	LIN
99.06.17	GENERAL REVISIONS AS PER MARK UPS, GJT	
989-0-11	ADDED DETAIL 'A', RELOCATED 50mm PVC DUCT (CWN)	
1985-0-13	AS CONSTRUCTED BY PIPE-CN	R.W.

FILE S-79-135	W.O. 85054/H8227
R.P. M-350	34 LOTS
DRAWN: W.J.C. 1985-01-22	CONTRACTOR: PIPE-CN
DESIGNED BY: <i>A. T. Gaywaski</i>	ASS. MEE: 89-C-12
MANAGER: <i>A. T. Gaywaski</i>	

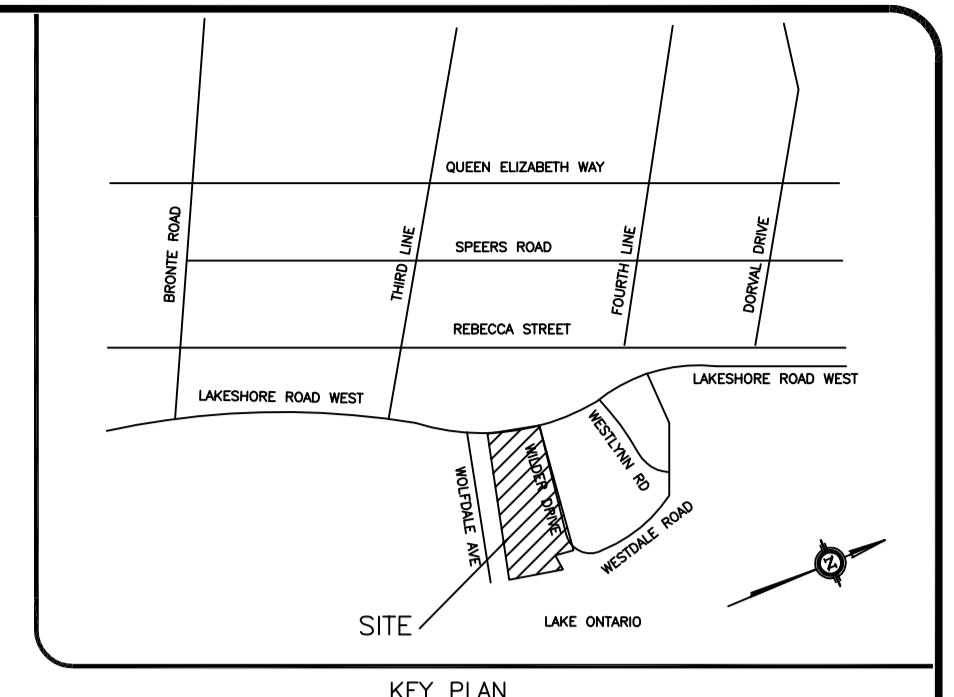
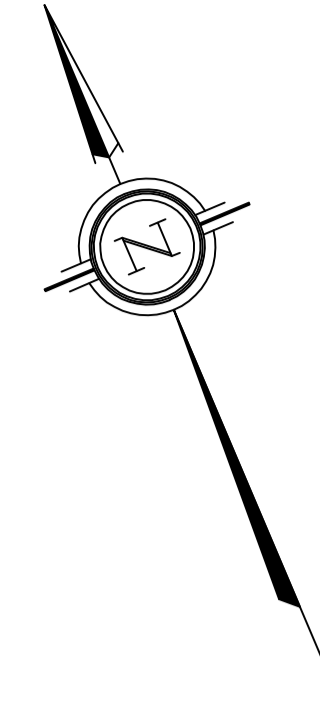


CROSSEN SUBDIVISION (TRILLER PLACE)

UNDERGROUND HYDRO LAYOUT

SCALE: 1:500

DRAWING NO. UH-1269



KEY PLAN
N.T.S.

LEGEND

- 2400V - 120/240 MINI PAD TRANSFORMER, SIZE AS NOTED
- R— 1-1/0 Cu. 15kV TRXLPEI PVCJ PRIMARY CABLE AND PHASE.
- RWB— 3-1/0 Cu. 15kV TRXLPEI PVCJ PRIMARY CABLE.
- 2-3/0 AND 1-1/0 AL INDIVIDUAL SECONDARY SERVICES
- 2-No 4 Cu + 1 No 8 Cu STREETLIGHT CABLE
- 3-500 MCM ALUM. 600V U/G SECONDARY
- - - - - ABANDONED CABLE
- STREETLIGHT POLE: 6.1m (20') DECORATIVE CONCRETE POLE BY STRESS-CRETE "BELMONT HIGHWAYMAN" CAT# KBH-20-G-E52 FINISHED IN ETCHED ORIENTAL JADE. STREETLIGHT ARM & LUMINAIRE: TOW 120V H.P.S. BY COOPER LIGHTING "DAYFORM CENTURY" CAT# CRD5281-120-SK (SIDE MOUNTED) C/W 1.5m (5') VICTORIAN SCROLL ARM.
- ② NO. OF 100mm DIA. PVC DIRECT BURIED DUCTS
- ⊙ POLE TRANSFORMER
- FUSED CUTOUT
- ⊙ HYDRO POLE

NOTES

- 1) ALL ROAD CROSSINGS TO BE LOCATED 2.0m FROM TRANSFORMER UNLESS OTHERWISE NOTED. (◄ INDICATES DIRECTION FROM SIDE LOT LINE)
- 2) ALL TRENCH OFFSETS TO BE 3.0m FROM ST. LINE & 3.5m FOR STREETLIGHT POLES UNLESS OTHERWISE NOTED.
- 3) TRANSFORMER TO BE LOCATED IN THE BOULEVARD WITH TYPICAL OFFSETS AS SHOWN IN DETAIL 'B'.
- 4) STREETLIGHT TO BE LOCATED 2.0m FROM LOT LINE UNLESS OTHERWISE NOTED.

NO.	DATE	DESCRIPTION	BY	CHK'D.
16 02 01		UPGRADED TX-993 TO 100kVA AND CHANGED SVC TO 100 LISONALLY CT. (JOB#Q60738/Q60739)	CEM	AJC
10 08 13		FWD FOR GIS CONVERSION	LJN	
10 01 29		MOVED SVC FOR 1176 WESTDALE RD W. CHANGED SVC TO 100 LISONALLY CT. TO 3-500mcm AL. (JOB#21349-1). REMOVED ALL FAULT INDICATORS AND OPEN POINTS. SEE GRID DRAWING	JIG	
99.07.06		REV. TO SERVICE TAIL (LOT 25), AS PER LOCATE	BJB	
99.03.16		REV. TO SERVICE TAILS, AS PER LOCATE	BJB	
98.12.29		GENERAL REVISION	RSK	
98.07.08		REV. SECOND. SERV. AT LOTS 7&15 AND CORRECTED HS. NUM. @ LOT 7	GJT	
96.05.01		REV. SECOND. SERV. AT LOTS 25 & 28	A.S.	
96.02.26		AS BUILT	Y.V.	

FILE S-92-201 W.O. DISTR. 051587

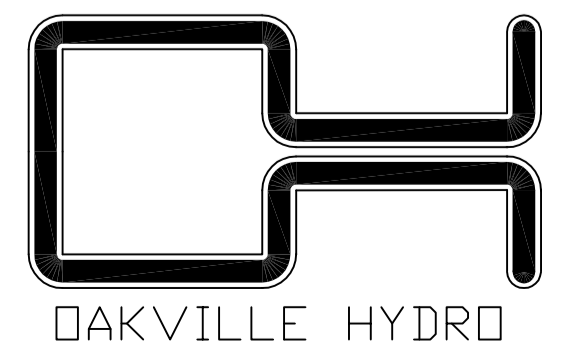
R.P. M-651 CONTRACTOR: ONTARIO POWER ASSUMED:

DRAWN J.F. 95.05.19 CAD CHK'D. Y. VELA, CET 99.01.13

CHK'D. 96.02.27 R.T.G. 96.02.27

DESIGN BY R.T.G.

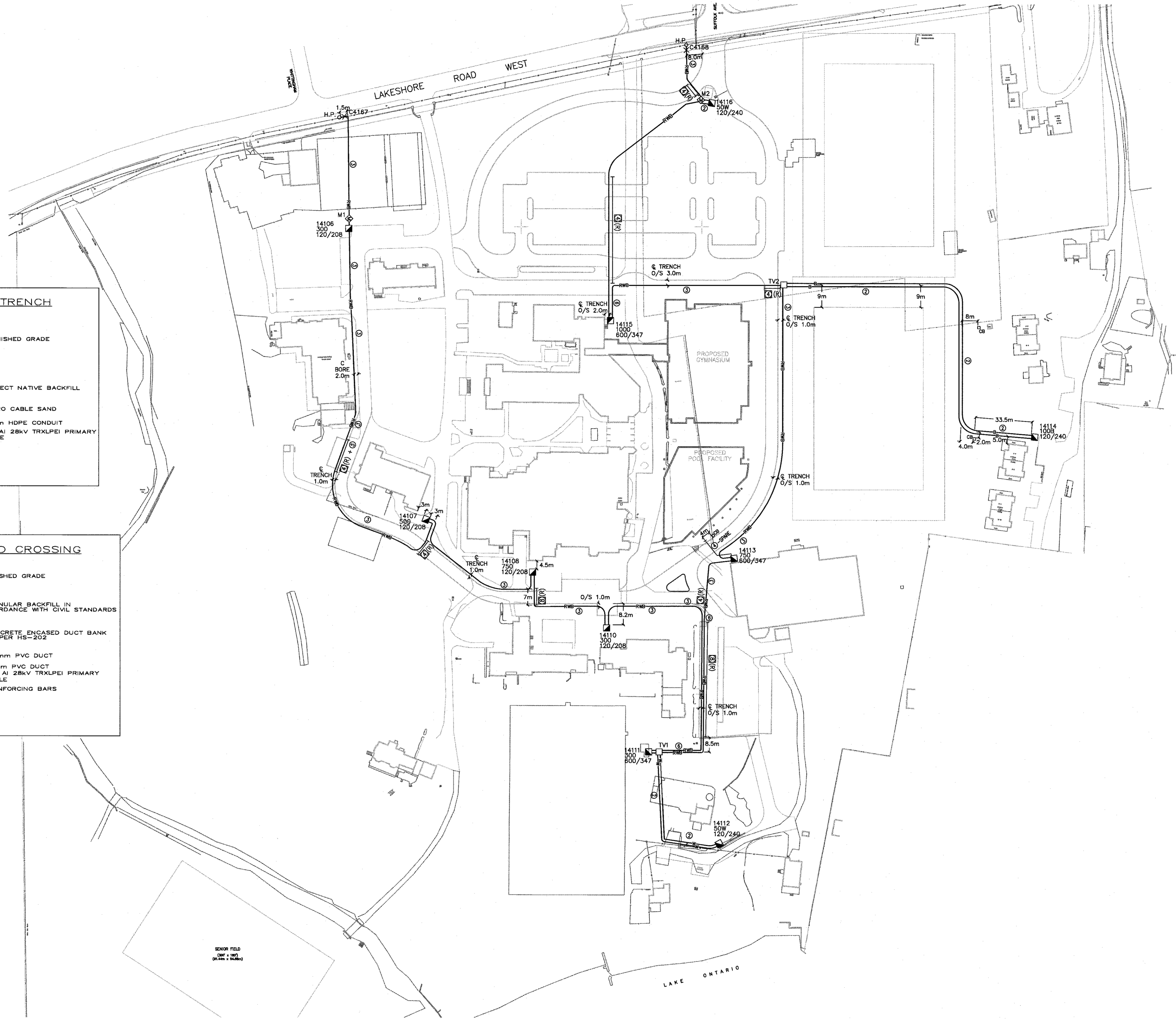
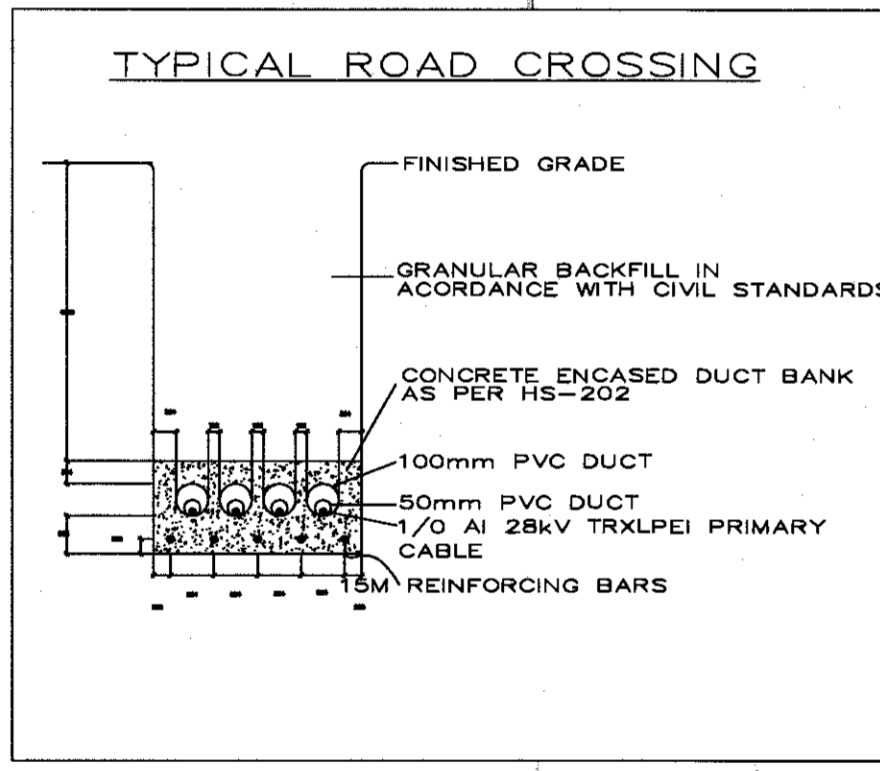
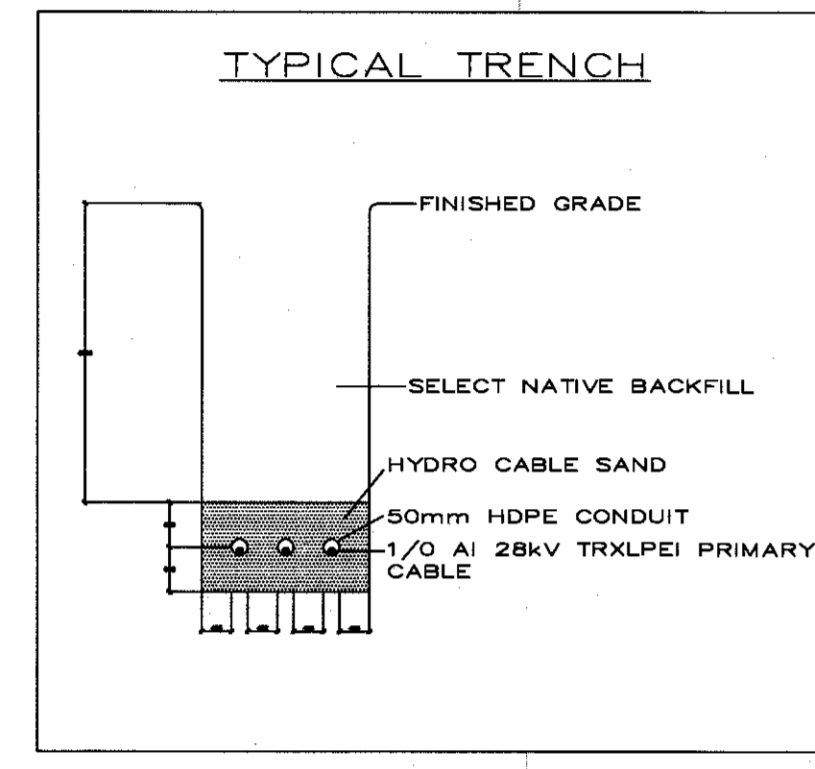
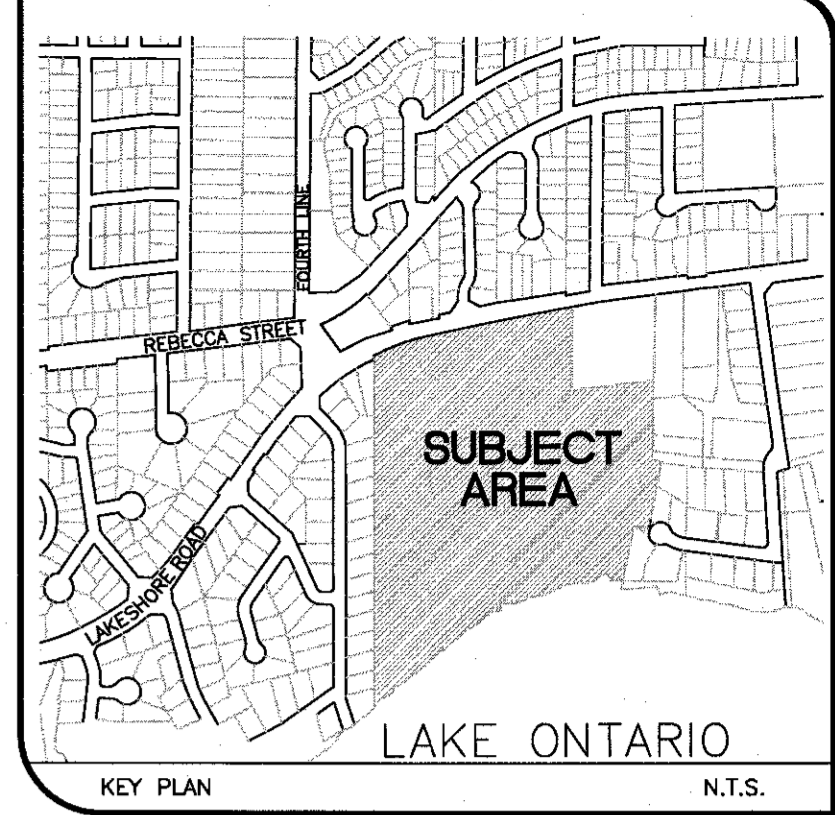
DIRECTOR OF ENGINEERING & OPERATIONS *N. Sutherland*



BAILLIE ESTATES
LAKESHORE RD.W. & WESTDALE RD
U/G HYDRO DISTRIBUTION SYSTEM

SCALE 1:1000 EXCEPT FOR SYMBOLS

DRAWING NO. UH-1582



LEGEND

- ◻ 27,600V PAD MOUNTED TRANSFORMER(SEE TRANSFORMER DETAIL CHART)
- ◊ 27,600V PAD MOUNTED METERING UNIT
- W — 1-1/0 AL 28kV TRXLPEI PVCJ PRIMARY CABLE AND PHASE IN 50mm HDPE CONDUIT
- RWB — 3-1/0 AL 28kV TRXLPEI PVCJ PRIMARY CABLE IN 50mm HDPE CONDUIT
- ◻ HYDRO PULL/SPLICE VAULT AS PER HS503
- ② NO. OF DIRECT BURIED CONDUITS OR DUCTS
- ④(R) NO. OF CONCRETE-ENCASED, REINFORCED DUCTS

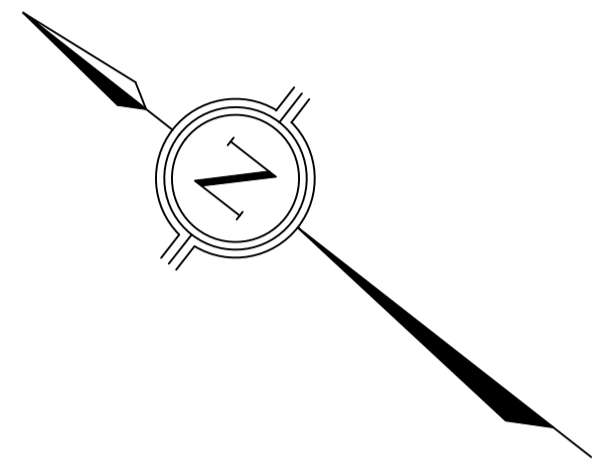
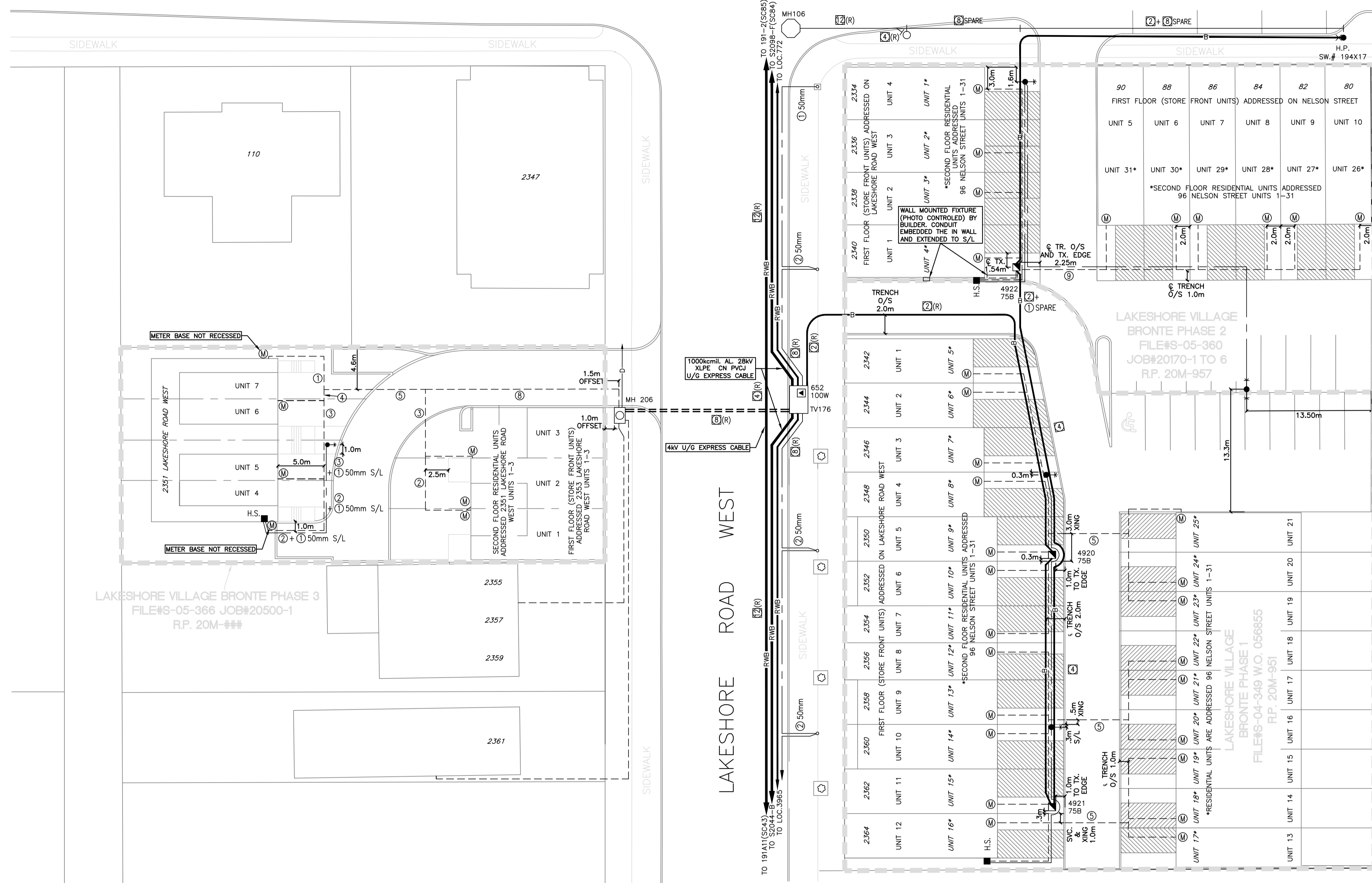
NOTES

REVISIONS		FILE	W.O.
10 12 22	UPGRADED TX.14108 FROM 500KVA TO 750KVA (JOB#20691-1)	00-43	R.P.
10 08 13	FWD FOR GIS CONVERSION		CONTRACTOR ASSUMED:
06 10 30	CORRECTED SECONDARY SERVICE SIZES, REMOVED PRIMARY SCHEMATIC		DATE
03 05 01	REVISED LOCATION OF TX. 14110		
03 02 10	AS-BUILT PER HYDRO		

OAKVILLE HYDRO

APPLEBY COLLEGE
UNDERGROUND HYDRO
DISTRIBUTION

SCALE 1:1000 DRAWING NO. UH-1812



STREETLIGHTING IS PRIVATE
AND METERED

LEGEND

- RWB— 4.16kV/27.6kV U/G EXPRESS CABLE
- W— 1-1/0 AL 28kV TRXLPEI PVCJ PRIMARY CABLE AND PHASE IN 100mm C.E. DUCTS
- 3-3/0 AL 600V XLPEI PVCJ SECONDARY CABLE IN 100mm D.B. DUCT, C/W 1-20mm HDPE & MULE TAPE
- 3-500kcmil. AL. XLPE RWU90 SECONDARY CABLE
- 2 #6 Cu. NMWU c/w 1-#10 Cu. STREETLIGHT CABLE IN 50mm PVC DUCT
- * STREETLIGHT POLE; 20' OCTAGONAL BY STRESSCRETE CAT.# E200-AP0-G-S11 S/F 132A COMPLETE WITH 70W HPS LUMINAIRE (BLACK) CAT.# UCD 075W22DR C/W CA-50AP (BLACK)
- H.S. HOUSE SERVICE PANEL FOR PRIVATE STREETLIGHTING SYSTEM BY BUILDER'S SITE ELECTRICIAN.
- Ⓢ NO. OF 100mm PVC DIRECT BURIED DUCTS
- Ⓡ NO. OF 100mm DUCTS CONCRETE ENCASED, REINFORCED
- Ⓜ RECESSED MOUNTED METER BASE AS PER HS-211A

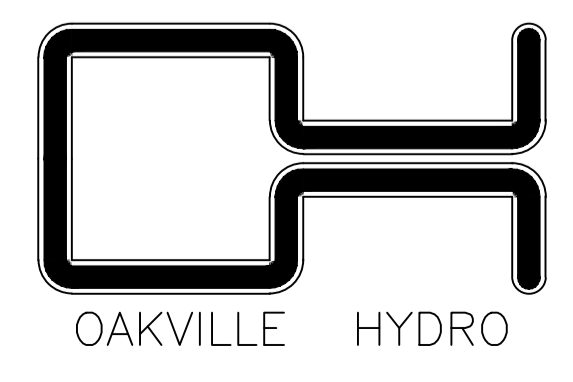
NOTES

1. FWD FOR GIS CONVERSION
2. AS-BUILT LAKESHORE VILLAGE BRONTE PH.3 (JOB 20500-1)
3. ENERGIZED LAKESHORE VILLAGE BRONTE PH.2 (JOB 20170-1)
4. AS BUILT BY HYDRO
5. REVISIONS TO PH2 DUE TO CIVIL CHANGES
6. REVISION TO STREET LIGHTS

REVISIONS

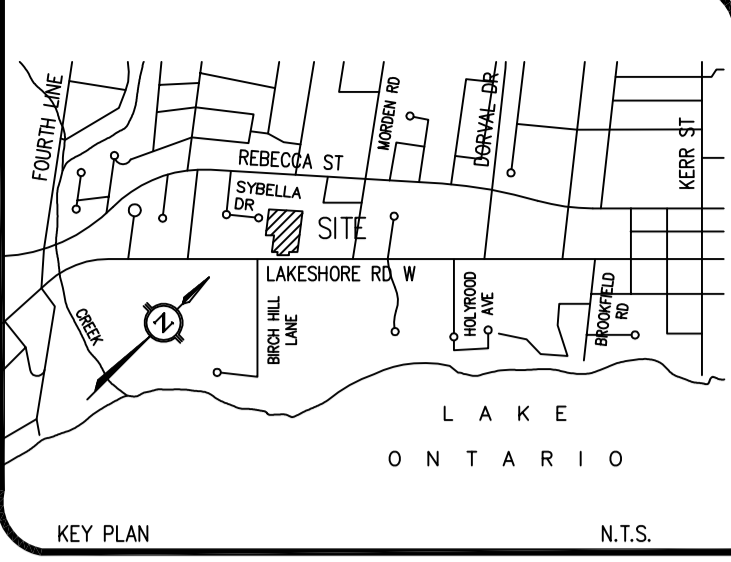
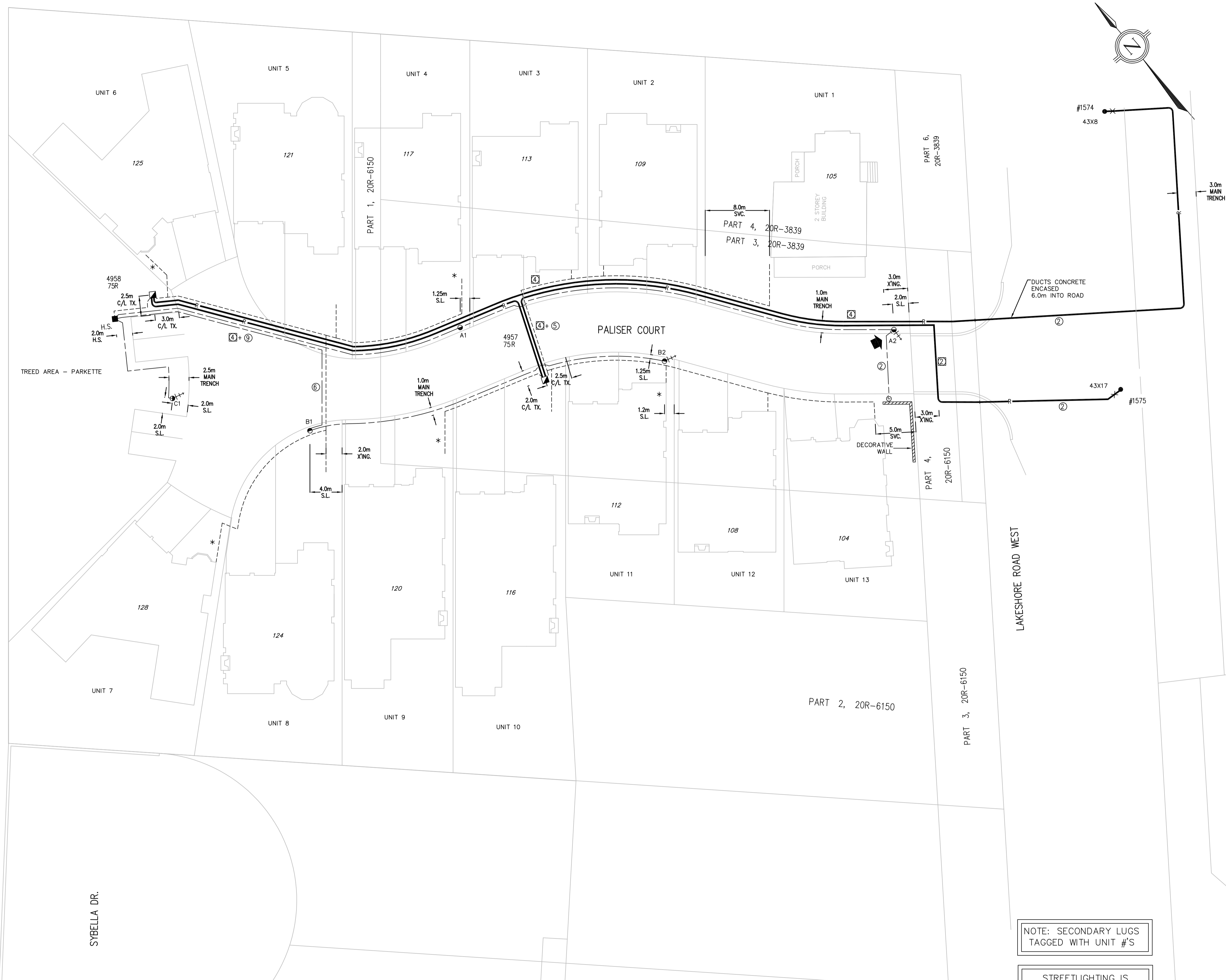
NO.	DATE	DESCRIPTION	BY	CHECKED
2010 08 13		FWD FOR GIS CONVERSION	JUN	
2007 12 20		AS-BUILT LAKESHORE VILLAGE BRONTE PH.3 (JOB 20500-1)	JIG	
2006 09 29		ENERGIZED LAKESHORE VILLAGE BRONTE PH.2 (JOB 20170-1)	JIG	CHK'D
2005 09 07		AS BUILT BY HYDRO	JCK	
2005 08 18		REVISIONS TO PH2 DUE TO CIVIL CHANGES	JCK	
2005 04 21		REVISION TO STREET LIGHTS	JCK	

FILES-04-349/S-05-360/ S-05-366	WO 056855/20170-1 TO 6/ 20500-1
CONTRACTOR: BETHLEHEM ASSUMED:	MARCH 2005
DESIGN BY: <i>J. Carter-Kincaid</i>	
DIRECTOR OF ENGINEERING: <i>D. Steele</i>	



LAKESHORE VILLAGE
BRONTE
PHASE 1, 2 & 3
U/G HYDRO DISTRIBUTION
(AMR)

SCALE: 1:250
DRAWING NO.: UH-1872A



NOTE: SECONDARY LUGS TAGGED WITH UNIT #'S

STREETLIGHTING IS PRIVATE AND METERED

LEGEND

- 75kVA - 2400 - 120/240V MINI PAD TRANSFORMER.
- 1-1/0 AL 28kV TRXLPEI PVCJ PRIMARY CABLE AND PHASE CONTINUOUS IN C.E. 100mm PVC TYPE 2 DUCT
- 3-3/0 AL 600V XLPEI PVCJ SECONDARY CABLE IN D.B. 100mm PVC TYPE 2 DUCT C/W 1-20mm HDPE CONDUIT C/W MULE TAPE.
- No. OF 100mm PVC CONCRETE ENCASED DUCT REINFORCED.
- No. OF 100mm PVC DIRECT BURIED DUCTS OR 50mm IF DENOTED.
- FREE STANDING METERED HOUSE SERVICE PANEL.
- PRIVATE STREETLIGHT CABLE TO BE 2-#6 Cu. NMWJ C/W 1-#10 Cu. CSA GROUND CABLE INSTALLED IN 50mm D.B. PVC TYPE 2 DUCT.
- PRIVATE DECORATIVE STREETLIGHT DESCRIPTION: LUMINAIRE: MANUFACTURED BY KING LUMINAIRE COMPANY INC. CAT. # K601-T-HAC-III-70(MOG)-HPS-120-2-G-PE-F4-CSA C/W INDIVIDUAL PHOTO CONTROL. POLE: MANUFACTURED BY STRESS/CRETE LTD. CAT.# KCC15-G-S11 C/W 140-35/35 AND BA (TWO (2) 24" LONG BANNER ARMS - BLACK).

- GROUNDING TO BE INSTALLED AT LAST LIGHT ON EACH CIRCUIT PER E.S.A.
- MUNICIPAL R.O.W.**
- ALL SERVICES & S/L TO BE LOCATED 2.0m FROM SIDE LOT LINES UNLESS OTHERWISE NOTED * INDICATES SERVICE OFFSET IS 1.0m
 - ALL TRENCH OFFSETS TO BE 3.0m FROM ST. LINE & 3.5m FOR ST.LT. POLES UNLESS OTHERWISE NOTED.
- PRIVATE LANEWAY & DEVELOPMENT**
- ALL TRENCH OFFSETS TO BE 1.0m FROM BACK OF CURB TO CENTRE UNLESS OTHERWISE NOTED.
 - STREETLIGHT OFFSETS TO BE 1.5m FROM BACK OF CURB TO CENTRE UNLESS OTHERWISE NOTED.
 - TRANSFORMER OFFSETS TO BE 2.0m FROM BACK OF CURB TO CENTRE UNLESS OTHERWISE NOTED.
 - ROAD X'ING. TO BE LOCATED AT CENTRELINE OF TRANSFORMER UNLESS OTHERWISE NOTED.
 - MAINTENANCE OF PRIVATE LIGHTING SYSTEM IS BY OTHER THAN OAKVILLE HYDRO. INSPECTION OF PRIVATE SYSTEM IS UNDER ELECTRICAL SAFETY AUTHORITY INSPECTION JURISDICTION.
 - PRIMARY CABLE IS TO BE INSTALLED IN A 100mm PVC TYPE 2 DUCT, CONCRETE ENCASED & STEEL REINFORCED. SECONDARY CABLE IS TO BE INSTALLED IN A 100mm PVC D.B. DUCT.

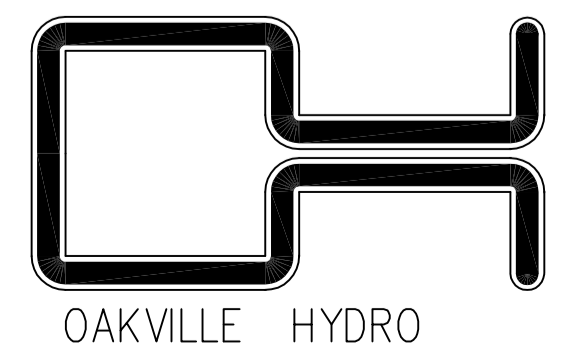
REVISIONS	DATE	DESCRIPTION	BY	CHECKED	DATE
2010.08.18	FWD FOR GIS CONVERSION	LJN			
2010.06.10	SUBD. NAME CHANGED & GEN. REVISIONS	BJB			
2009.08.28	AS-BUILT PER HYDRO	BJB			
2009.08.20	AS-CONSTRUCTED BY TRANS POWER	H.P.B. H.J.M.			
2009.05.04	REV. PER HYDRO COMMENTS RECEIVED 2009.05.01	H.P.B. H.J.M.			
2009.04.27	REV. PER HYDRO COMMENTS RECEIVED 2009.04.24	H.P.B. H.J.M.			

FILE S-09-414 JOB 21307-1

CONTRACTOR ASSUMED:

DESIGN BY: H.J.M.

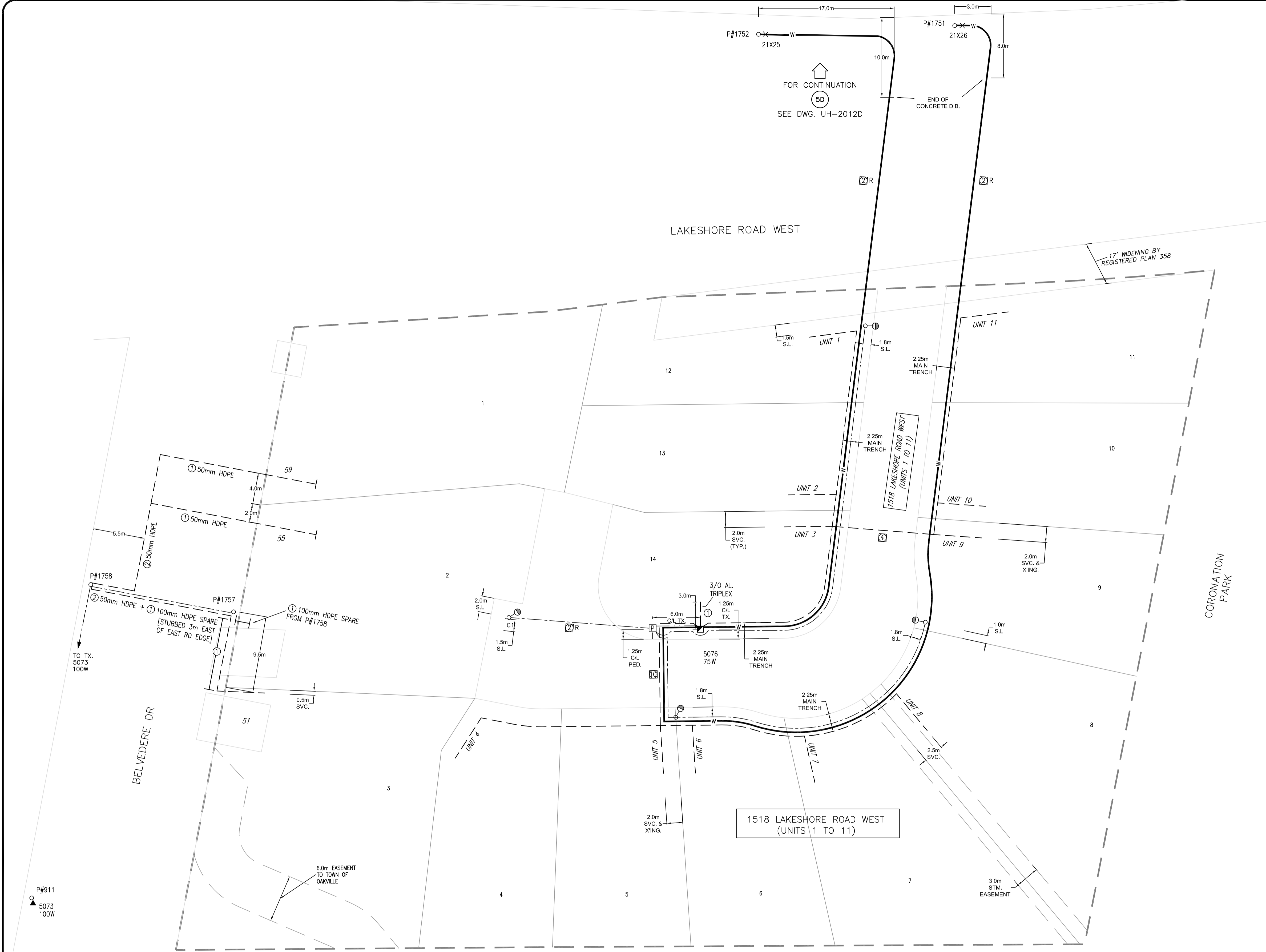
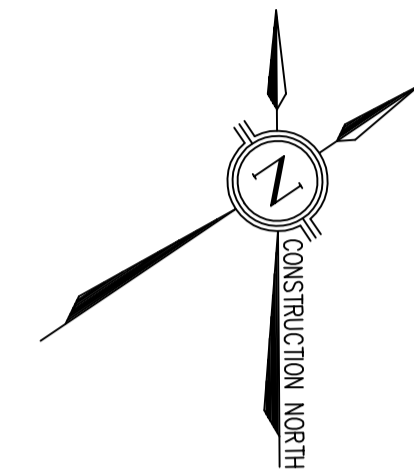
DIRECTOR OF ENGINEERING: *D. Stale*



AVALON NEXUS (PALISER COURT) HOLDINGS INC. HYDRO DISTRIBUTION & PRIVATE STREETLIGHTING SYSTEM

SCALE: 1:250 EXCEPT SYMBOLS DRAWING NO. UH-2082A

SHT 1 OF 2



STREETLIGHTING IS PRIVATE AND METERED

LEGEND

- 1-1/0 AL 28kV TRXLPEL PVCJ PRIMARY CABLE AND PHASE CONTINUOUS IN CER 100mm PVC TYPE 2 DUCT AS REQUIRED.
- 3-3/0 AL 600V XLPEI PVCJ SECONDARY CABLE IN DB 100mm PVC TYPE 2 DUCT
- 75kVA 2400V 120/240 MINI PAD TRANSFORMERS INSTALLED IN ACCORDANCE WITH HS-205, HS-206 AND HS-224
- Ⓟ FREE STANDING METERED STREETLIGHT POWER PEDESTAL C/W S/L DISCONNECTS & PRE-CAST CONCRETE BASE.
- 2-#6 Cu, NMWU C/W 1-#10 Cu, STREETLIGHT CABLE IN 50mm PVC DUCT.
- 3-#4 Cu & 1-#4 Cu RWU-90 (RED, WHITE & BLACK) STREETLIGHT PEDESTAL SUPPLY CABLE IN DB 50mm PVC TYPE 2 DUCT.
- ② No. OF 100mm PVC DIRECT BURIED DUCTS OR 50mm IF DENOTED.
- ② No. OF 100mm PVC CONCRETE ENCASED DUCTS REINFORCED.
- ① STREETLIGHT POLE: "TRAFALGAR" POLE BY SKYCAST FINISHED IN ETCHED TWILIGHT SKY CAT.# SC-273-BTR-TSE-DFG-P
- ① STREETLIGHT ARM & LUMINAIRE: 70W 120V H.P.S. SIDE MOUNTED DECORATIVE VICTORIAN FIXTURE C/W 1.5m VICTORIAN SCROLL ARM. NOTE BOTH THE ARM & LUMINAIRE TO BE FACTORY FINISHED BLACK TO MATCH POLE.
- 9.9m (32.5') ROUND CONCRETE POLE

NOTES—PRIVATE LANEWAY & DEVELOPMENT

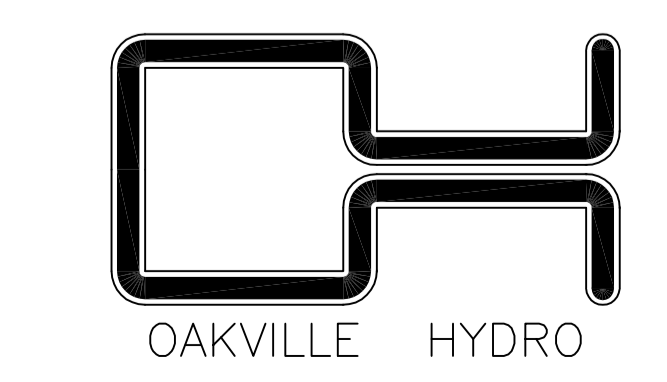
- 1) ALL SERVICES & S/L TO BE LOCATED 2.0m FROM SIDE LOT LINES UNLESS OTHERWISE NOTED
- 2) ALL TRENCH OFFSETS TO BE AS DIMENSIONED.
- 3) 1-100mm PVC TYPE 2 CER DUCT TO BE INSTALLED ALONG SIDE OF EVERY PRIMARY CABLE OR FEEDER CIRCUIT.
- 4) TRANSFORMER TO BE LOCATED AS SHOWN.
- 5) ROAD CROSSINGS TO BE LOCATED AS SHOWN.
- 6) ALL PRIMARY CABLES ON PRIVATE PROPERTY TO BE INSTALLED IN 100mm PVC TYPE 2 DUCT CONCRETE ENCASED AND STEEL REINFORCED.

MUNICIPAL R.O.W.

- 1) ALL TRENCH OFFSETS TO BE 3.0m FROM STREET LINE & 3.5m FOR STREET LIGHT POLES UNLESS OTHERWISE NOTED.
- 2) 1-100mm SPARE PVC TYPE 2 D.B. DUCT TO BE INSTALLED ALONG SIDE OF EVERY PRIMARY CABLE.

REVISIONS	DESCRIPTION	BY	CHKD
2016.02.08	ADDED NEW TEMP U/G SVC AT 38 HAMLET COMMON FROM TX.5076 (JOB#060919)	CEM	AJC
2011.04.28	AS-BUILT PER HYDRO	MD	AJC
2011.04.27	TX. SIZE CHANGED TO 75kVA PER REVISED AS-CONSTRUCTED FROM CONELCO RECEIVED 2011.04.27	H.P.B.	
2011.04.20	MUNICIPAL ADDRESS NUMBERS ADDED	H.P.B.	
2011.04.20	AS-CONSTRUCTED BY CONELCO	H.P.B.	
2010.11.08	REV. PER HYDRO COMMENTS RECEIVED	H.P.B.	
2010.08.30	REV. PER HYDRO COMMENTS RECEIVED	H.P.B.	S.C.G.
YYYY.MM.DD			

FILE: S-10-433	JOB#: 21833-1&2/30091
R.P. CO-ORDINATE	CONTRACTOR ASSUMED:
DRAWN H.P.B. 2010.06.07	CONSULTANT:
DESIGN BY S.C.G.	
DIRECTOR OF ENGINEERING	



THE GARDENS OF CORONATION
1518 LAKESHORE ROAD WEST
U/G HYDRO DISTRIBUTION SYSTEM
& PRIVATE STREETLIGHTING

SCALE: 1:250
DRAWING NO.: UH-2145A

WORK ORDER: 31138

FOR CONSTRUCTION

AS-BUILT

REVISED

DATE: 2012/09/06

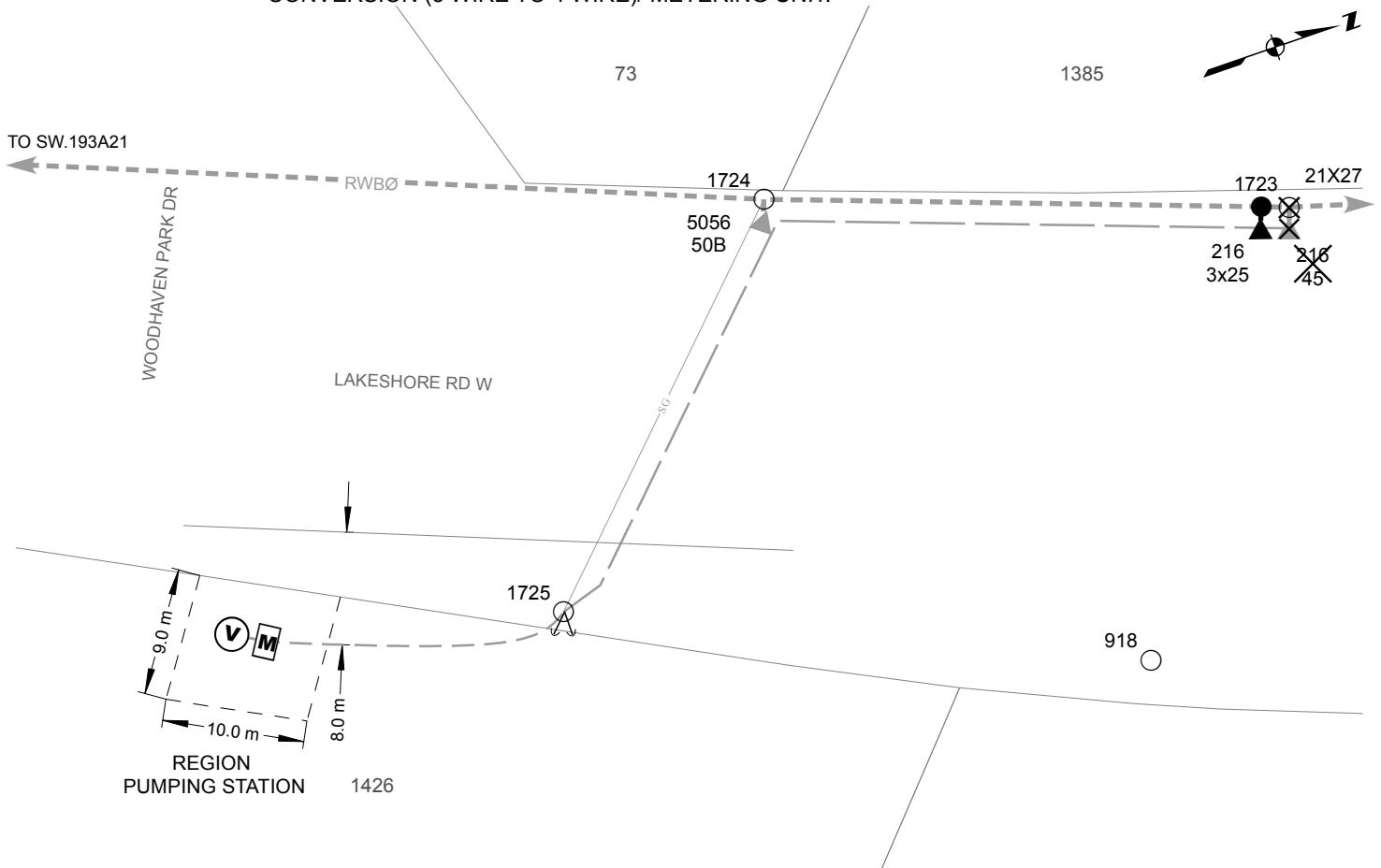
ORIGINATOR: G. MANDIC

TX LOC #: 216

TYPE OF SERVICE: MAIN SERVICE - FROM P#1725 TO EBOX: 1/0 QUAD. 600V, U/G IN 50mm HDPE EX. PROPOSED

CUSTOMER SERVICE - FROM EBOX TO VAULT: 60A, 3 WIRE, U/G SERVICE EX. PROPOSED

WORK DESCRIPTION: CONVERSION OF 3Ø Δ TRANSFORMER TO 3Ø Y-Y GRD O/H BANK, C/W CONVERSION (3 WIRE TO 4 WIRE)/ METERING UNIT.



LEGEND

- EX. 336 KCMIL PEI SPACER
- EX. QUADRUPLEX SECONDARY BUS
- - - EX. 1/0 QUAD. 600V, U/G SERVICE IN 50mm HDPE
- SG - EX. SPAN GUY
- - - REGION OF HALTON (9m x 10m) EASEMENT
- ▲ EX. O/H TRANSFORMER: 1Ø, 2400-120/240V, SIZE AS NOTED
- ✕ EX. 2400/600V DELTA O/H TRANSFORMER TO BE REMOVED, SIZE AS NOTED
- ▲ PROPOSED O/H TRANSFORMER BANK: 4.16/2.4-347/600V Y-Y GRD, SIZE AS NOTED
- EX. WOOD POLE
- ✕ EX. WOOD POLE TO BE REMOVED
- PROPOSED 45' WOOD POLE
- Ⓥ VAULT (PUMP STATION)
- Ⓜ METERING/EBOX/PEDESTAL

NOTES

1. EX. CUSTOMER 3 WIRES (600V, DELTA) FROM METERING UNIT TO VAULT (PUMP STATION).
2. SEE WORK ORDER NOTES FOR CONSTRUCTION DETAILS NOT SHOWN ON THIS SKETCH.

INSTALLED BY: EL-CON OPS
INSTALL DATE: _____ 2012 12 12 _____
INSPECTOR/ LINE SUPERVISOR: _____ PVE _____
SIGNED: _____



OAKVILLE HYDRO

TX LOC# 216
 U/G SERVICE
 @ 1426 LAKESHORE
 ROAD WEST

BUILDING LAYOUT

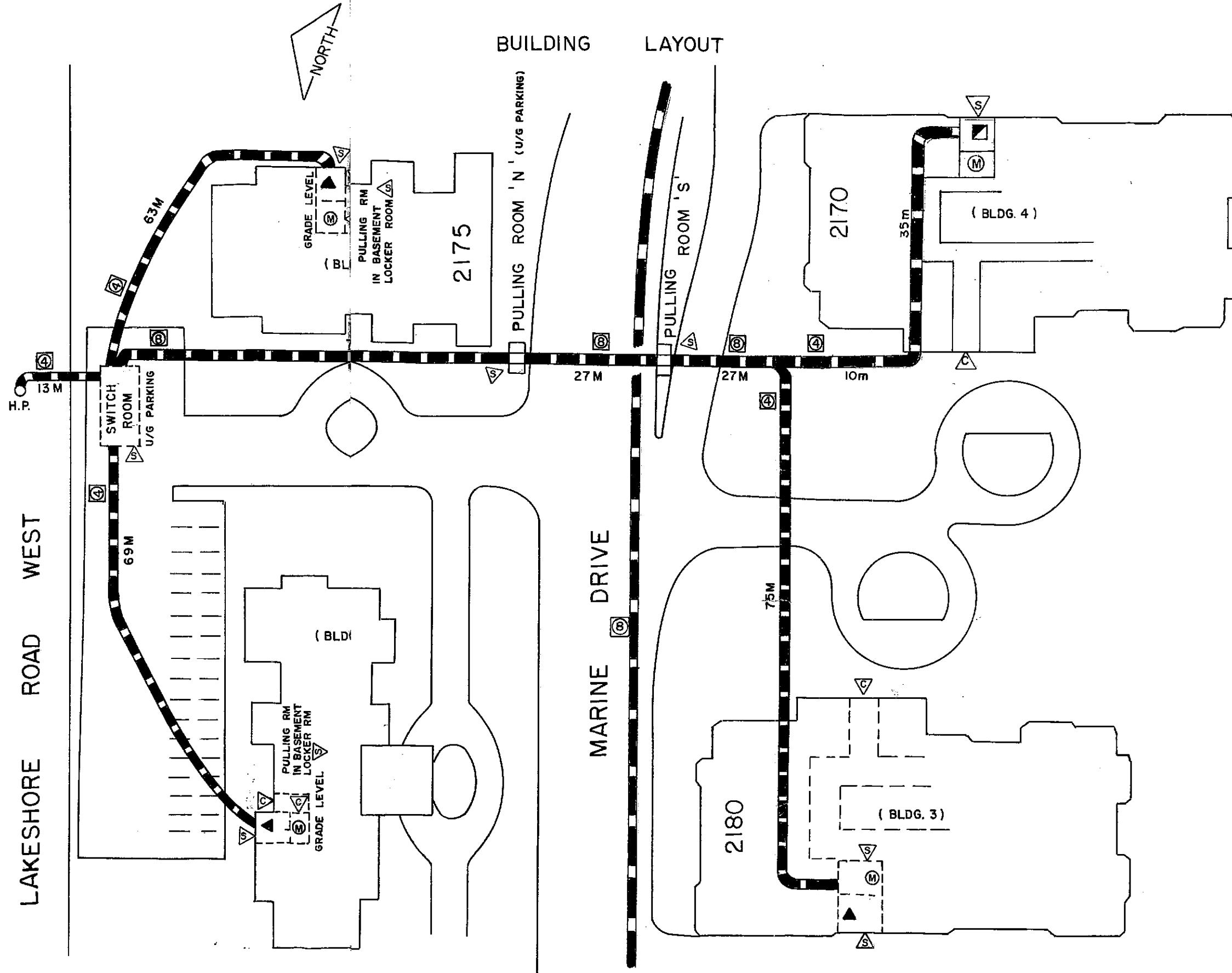
OAKVILLE HYDRO

27.6 KV TRANSFORMER ROOM

ADDRESS: 2170, 2175, 2180, 2185 MARINE DR.

W.O. 76184 / H5433, 80234 / H6351/84154
H7131

FILE: S-68-35



- ③ STANDARD KEY SYSTEM
- ④ CUSTOMER KEY
- Ⓜ METER LOCATION (GRADE LEVEL)
- ▲ TRANSFORMER LOCATION (GRADE LEVEL)
- ▬ 4" PVC CONC. ENCASED DUCT

CUSTOMER KEY NO. 300

TRANSFORMER ROOM KEY NO. AA-1

METERING ROOM KEY NO. AA-12

DRAWN GPS 82 11 29 REVISED JBD 85 06 17

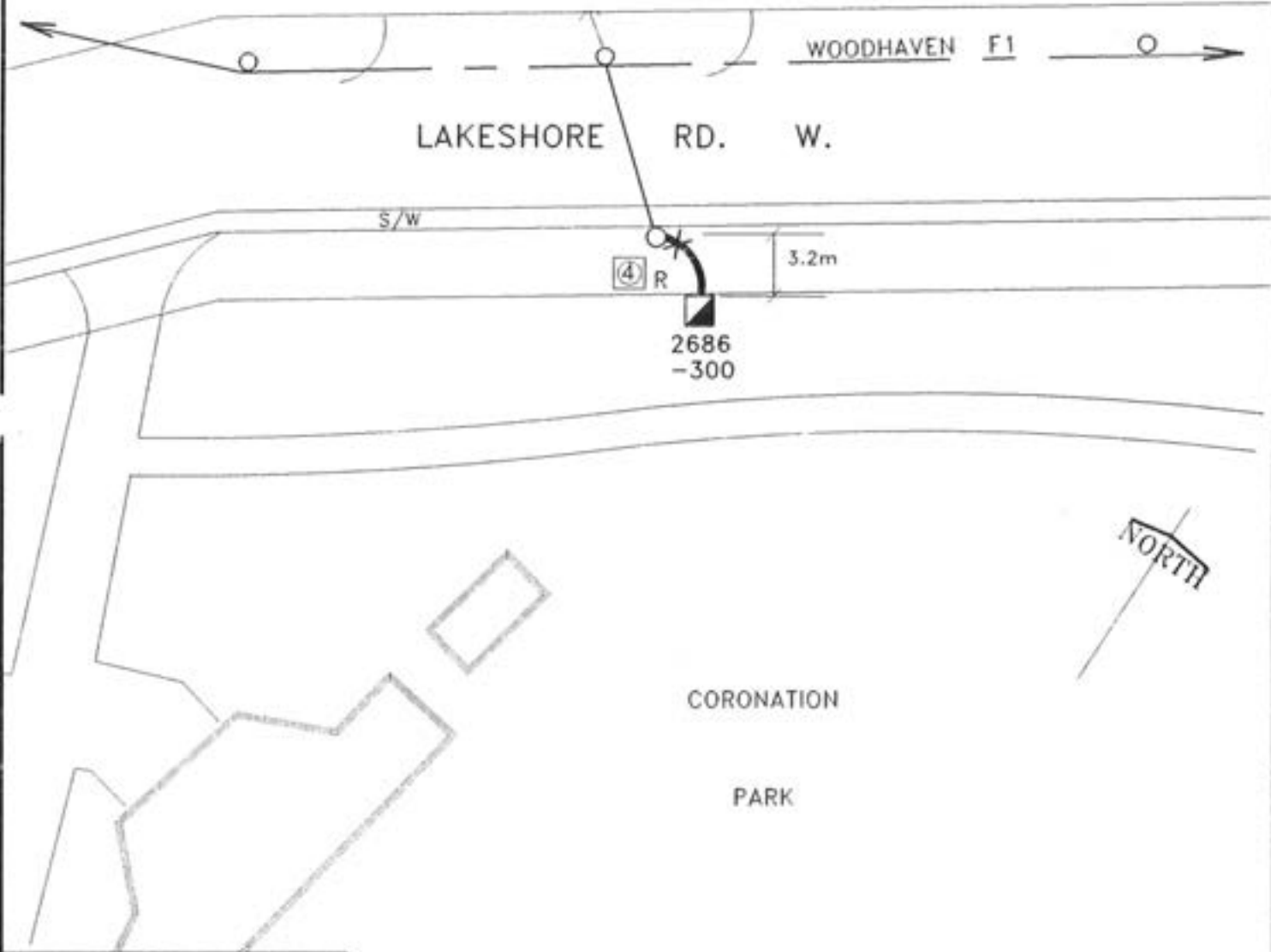
APPROVED Ans. JTB

FOR FURTHER DETAILS SEE UH-1027 & UH-845 (95)

OAKVILLE HYDRO

4.16kV kv PAD MOUNTED TRANSFORMER

NAME CORONATION PARK (TOWN OF OAKVILLE) WORK ORDER No. 051322/051323
 ADDRESS 1492 LAKESHORE RD. W. FILE No. 95-5
 DATE INSTALLED: 95 05 02 METERING ROOM KEY No. AA-399 FEEDER No. WOODHAVEN F1



TRANSFORMER DATA

DO NOT SCALE

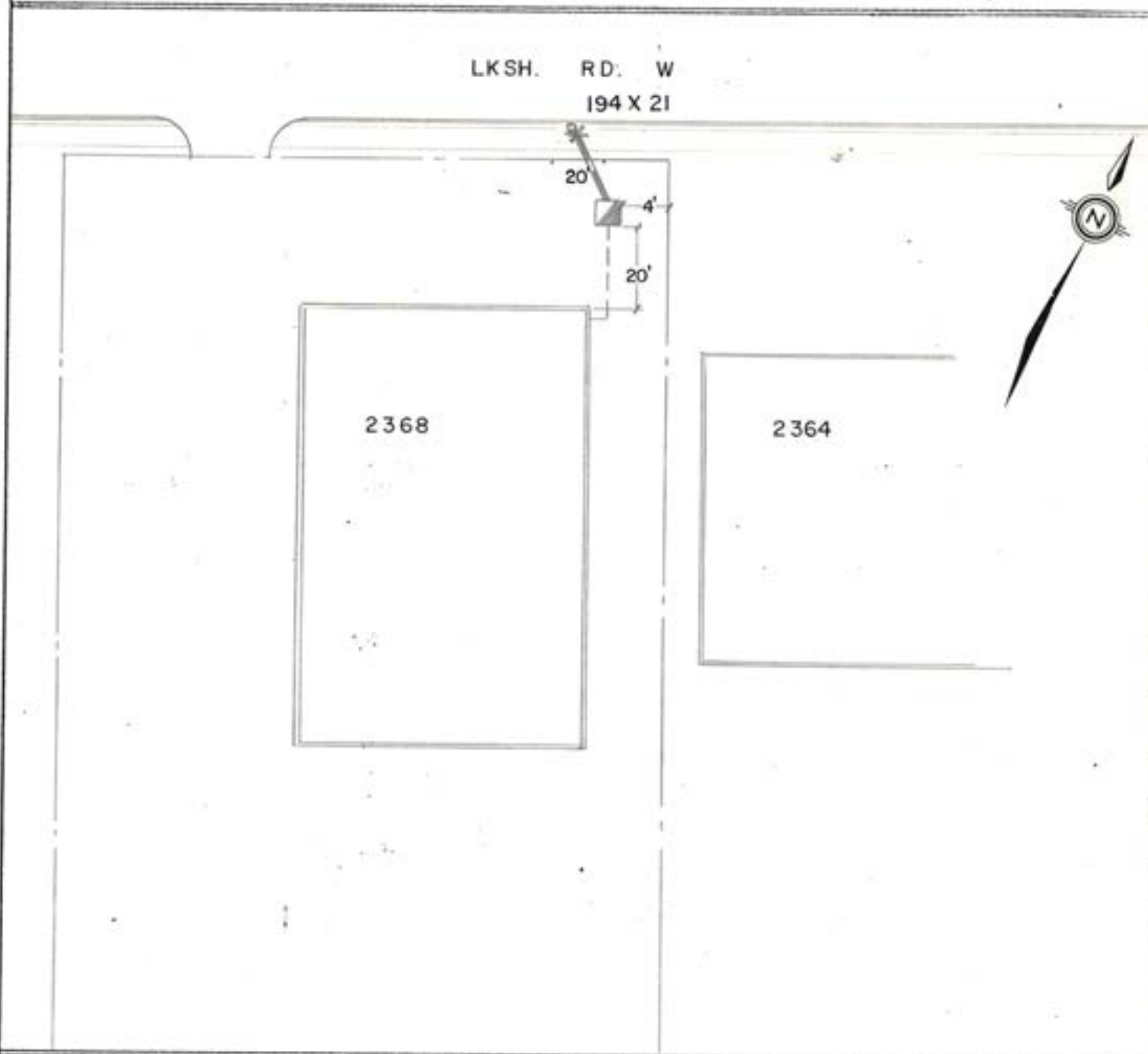
LOC. No.	KVA	PHASE	TYPE	MAKE	SERIAL No.	KILOVOLTS-VOLTS	ZIMP
2686	300	RWB	ONAN	ABB	95J826033	4160V-600/347V	1.14

SWITCH No. 21X17, 140K REDRN: JBD DATE: 00 02 23
 CONDUCTOR 3-1/0, 15kV XLPE CN J APP. *JTBW* DATE: 00/02/25
 Tx FUSE FA2H75 REV. _____ DATE: _____ APP. _____
 TYPE OF DUCT: 4-100mm REINF. CONC. ENC.

4KV PAD MOUNTED TRANSFORMER

ADDRESS: 2368 LAKESHORE RD. W.
 NAME: MEDICAL CENTRE
 DATE INSTALLED: JAN. 22. 74

W.O. 73130/H47 30 FILE 73-19 MARINE SUBSTATION, FDR 4



TRANSFORMER DATA

LOC. NO.	KVA	PHASE	TYPE	MAKE	SERIAL NO.	VOLTS	IMP.
3965	150	RWB	ONAN	CGE	SN 880050	4160/120/208	

TRANSFORMER FUSE: 30NX, CAT. FA28A30
 SWITCH NO: 194X21, 3-100A, 40K
 TYPE OF DUCT: 2-4" PVC TYPE I, CONC, ENC.
 CONDUCTOR: 3-1/0 Cu, 15KV XLPE CONC. NEUT.

RTG
AS CONSTRUCTED

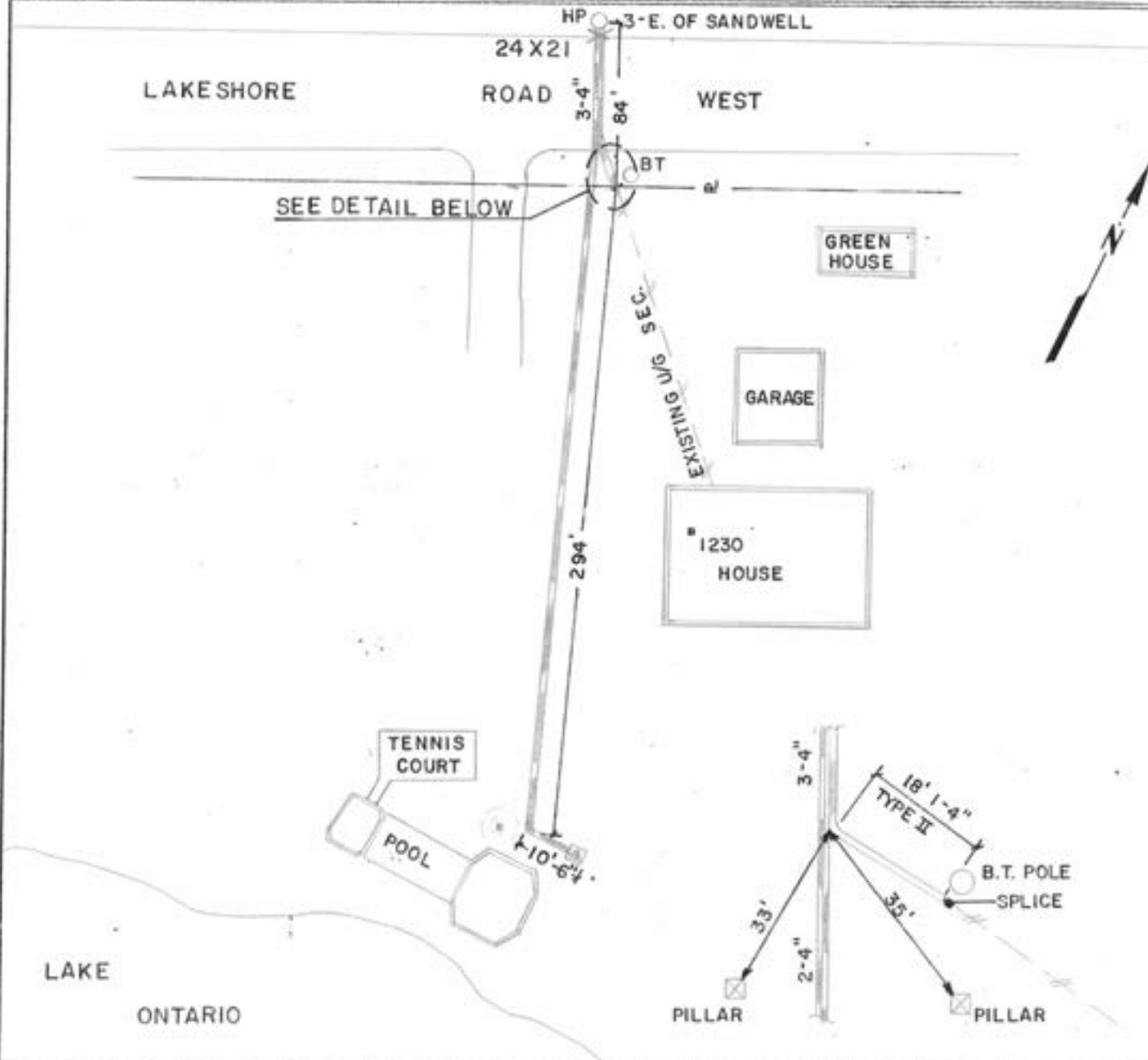
4 KV SUBMERCIBLE TRANSFORMER

ADDRESS: 1230 LAKESHORE RD. W.
 NAME: T. CHERNOFF
 DATE INSTALLED: FEB. 9, 1976

W.O. 75271/H5320

FILE 75-19

WOODHAVEN SUBSTATION, FDR. 4



TRANSFORMER DATA

LOC. NO.	KVA	PHASE	TYPE	MAKE	SERIAL NO.	VOLTS	IMP.
4155	50	WHITE	ONAN	RELIANCE	RP80417-16	2400/120/240	

SWITCH NO: 24X21, J-100A, FUSED 40K.
 TYPE OF DUCT: 2-4" PVC TYPE I, CONC. ENCA.
 CONDUCTOR: 1-1/0 CU, 15KV, XLPE. C.N.

DRAWN BY: P. BACKUS
 DATE: MAY 4 1976
 APPROVED BY: [Signature]
 DATE: 2/9/76

27.6/16 KV PAD MOUNTED TRANSFORMER

ADDRESS: 2511 LAKESHORE RD. WEST

NAME: BRONTE HARBOUR CLUB

DATE INSTALLED: 88-05-10

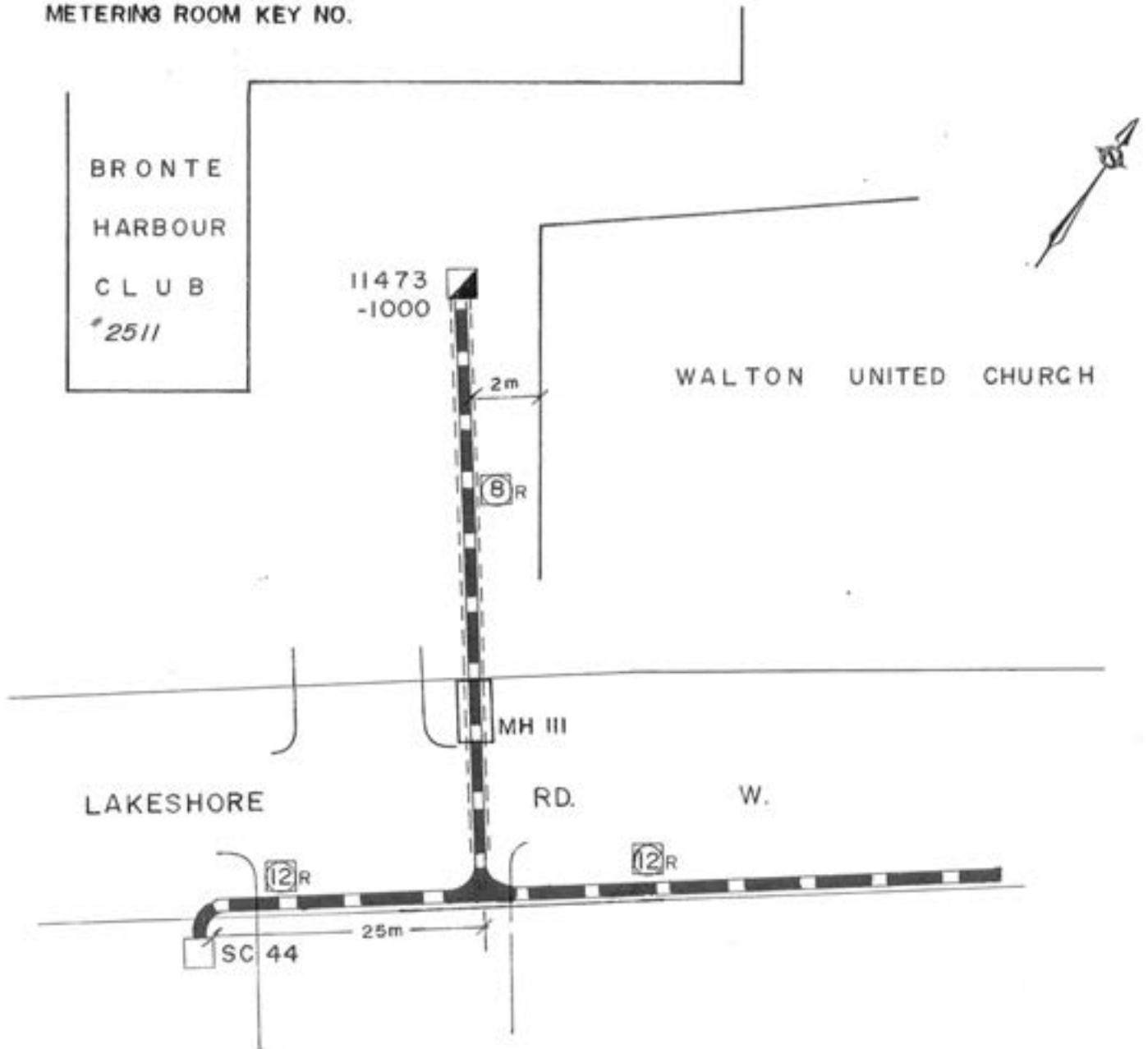
METERING ROOM KEY NO.

88080 H - 8300

W.O. 87262 - H - 8093

FILE 87-19

BRONTE T.S. F13M4



TRANSFORMER DATA

DWG. REF. UH-1386

LOCAL	KVA	PHASE	TYPE	MAKE	SERIAL NO.	KILOVOLTS - VOLTS	%IMP
11473	1000	RWB	ONAN	FED. PIONEER	A12755-2	27.6/16-600/347	4.0

SWITCH No.

TYPE OF DUCT: 8-100mm CONC. ENC. STEEL REINF. DUCTS

CONDUCTOR: 1/0 AL. 28 KV, XLPE CN

TRANSFORMER FUSE: FA4H40

DRAWN YV DATE 89-08-31

APPROVED [Signature] DATE 89-09-05

REVISED JBD DATE 89-11-01

REVISED _____ DATE _____

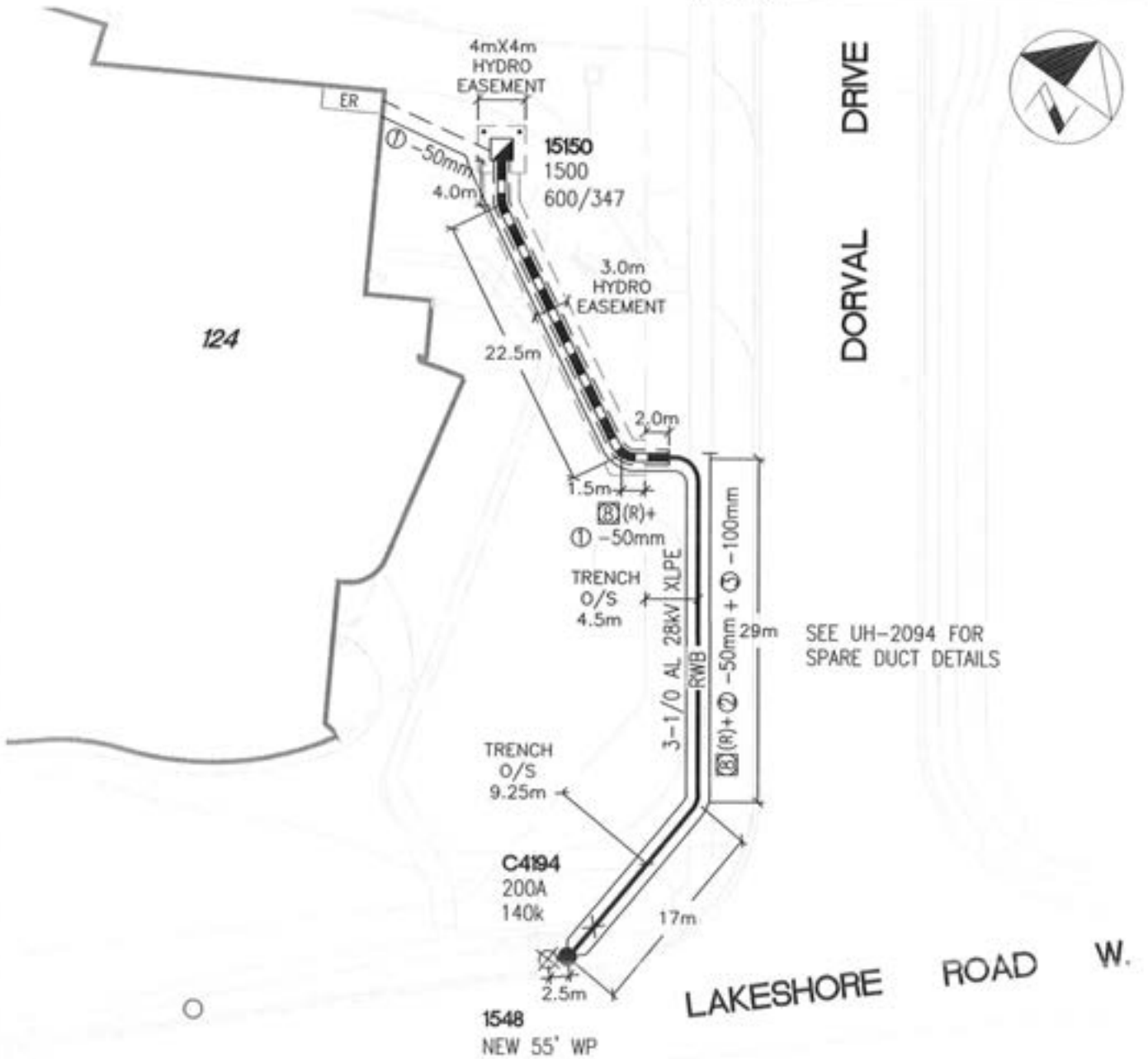
OAKVILLE HYDRO 27.6/16kV PAD MOUNTED TRANSFORMER

ADDRESS: 124 DORVAL DRIVE

WORK ORDER No. 21223-1

NAME: ST. THOMAS AQUINAS

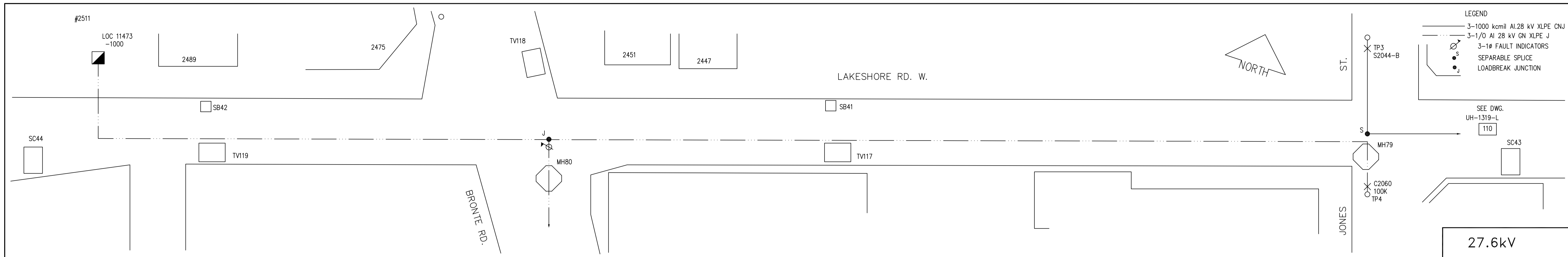
FILE No. 08-179



CONDUCTOR: 3-1/0 AL 28kV XLPE-J

TYPE OF DUCT: 8-100mm ϕ PVC, CONCRETE ENCASED, REINF.
+1-50mm ϕ PVC

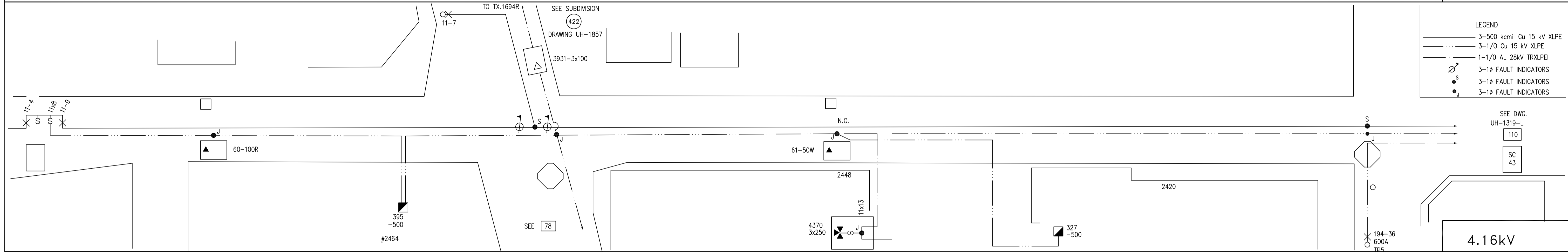
				DRAWN BY: B. BREWSTER	DATE: 08 14 2009
				APPROVED: 	DATE: 08 14 2009
2009.10.05	AS-BUILT PER HYDRO	BJB			
REVISIONS					



LEGEND

- 3-1000 kcmil Al 28 kV XLPE CNJ
- 3-1/0 Al 28 kV GN XLPE J
- 3-1# FAULT INDICATORS
- SEPARABLE SPLICE
- LOADBREAK JUNCTION

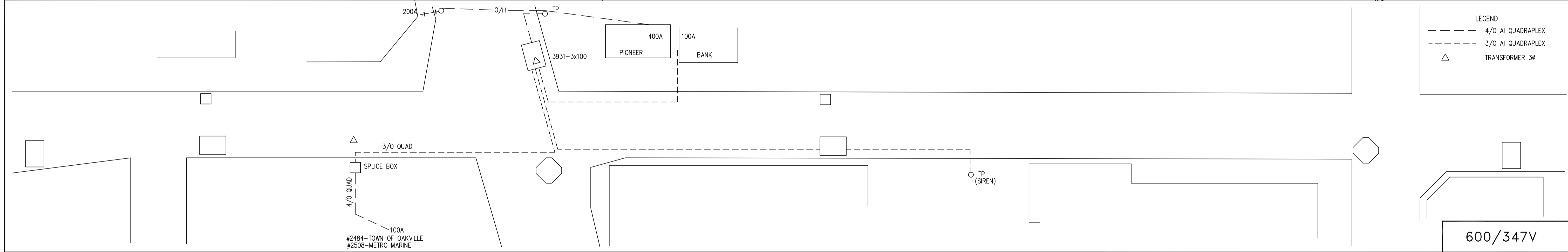
SEE DWG. UH-1319-L 110



LEGEND

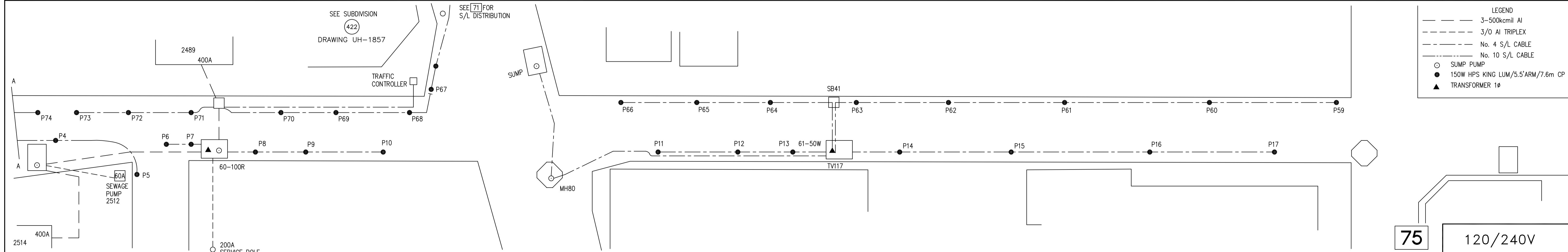
- 3-500 kcmil Cu 15 kV XLPE
- 3-1/0 Cu 15 kV XLPE
- 1-1/0 AL 28kV TRXLPEI
- 3-1# FAULT INDICATORS
- 3-1# FAULT INDICATORS
- 3-1# FAULT INDICATORS

SEE DWG. UH-1319-L 110



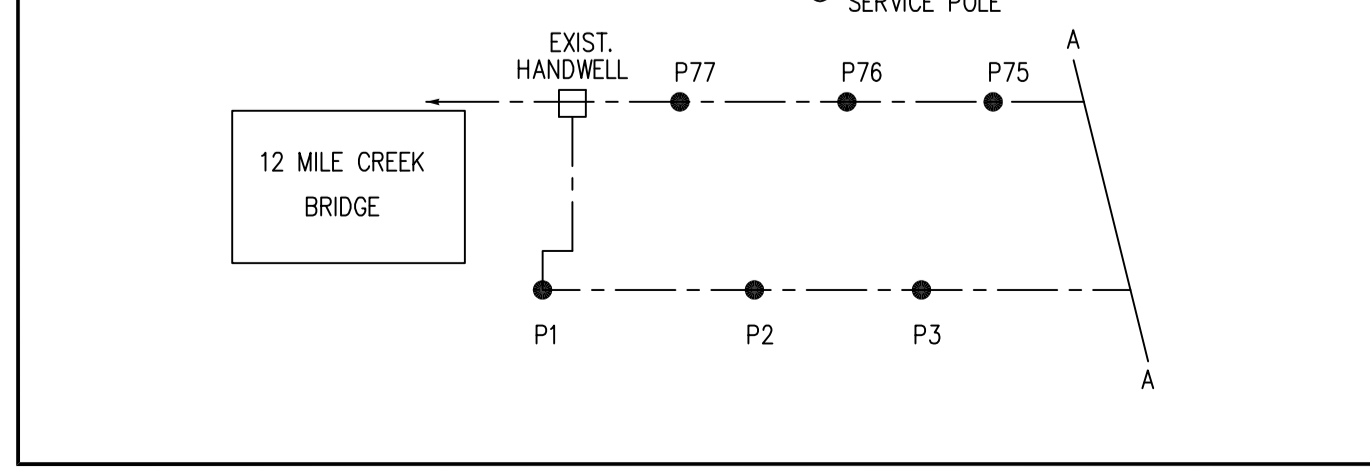
LEGEND

- 4/0 Al QUADRAPLEX
- 3/0 Al QUADRAPLEX
- TRANSFORMER 3#



LEGEND

- 3-500kcmil Al
- 3/0 Al TRIPLEX
- No. 4 S/L CABLE
- No. 10 S/L CABLE
- SUMP PUMP
- 150W HPS KING LUM/5.5'ARM/7.6m CP
- TRANSFORMER 1#



NOTES

1. SEE DRAWINGS UH-1439A TO E (S/L PAGES (54) - (58)) FOR S/L DETAILS.

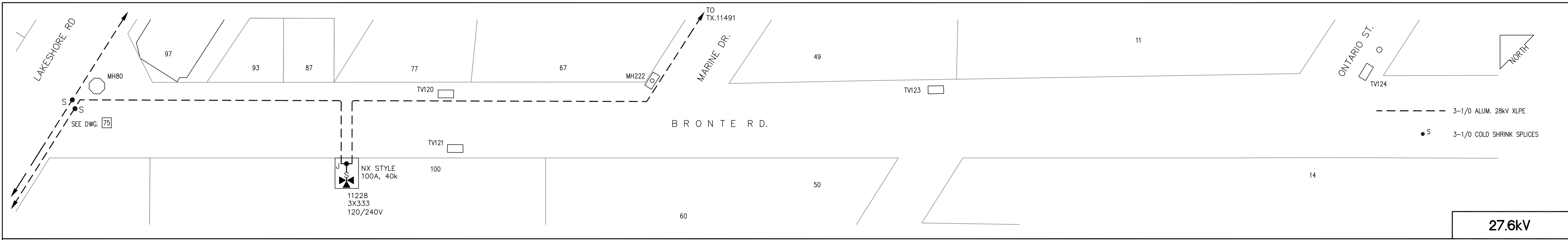
DATE	REVISIONS	BY	CHKD
15 04 23	UPGRADED TX. 327 TO 500KVA (JOB#Q60762/Q60821)	CPM	AJC
13 02 04	ADDED 100A U/G SERVICE AT 2508 LSRW (JOB#31167)	SS	AJC
10 09 08	FWD FOR GIS CONVERSION	LJN	
05 10 18	REV. SERVICE TO 400A @ 2489 LSRW AND REM. PHONE BOOTHS FROM SB42 & TV119	BCh	
05 09 28	AS-BUILT 2475 LSRW T/H	JCK	
86 10 22	DIGITIZED AND AS BUILT	ABS	

OAKVILLE HYDRO

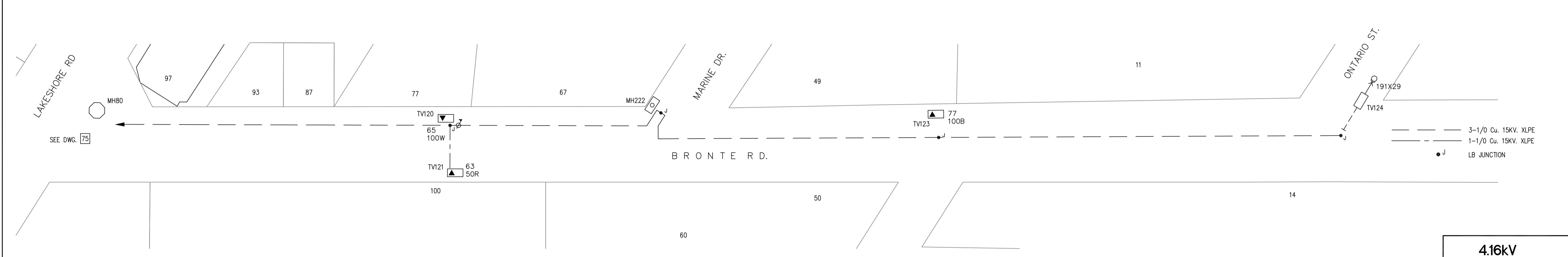
TITLE
LAKESHORE ROAD WEST
BRONTE CREEK TO
JONES STREET
U/G SCHEMATIC

SCALE
N.T.S.

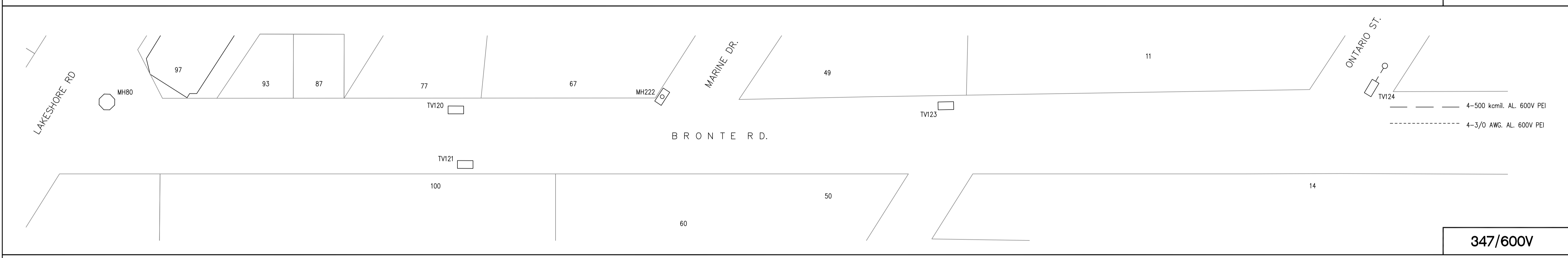
DRAWING NO.
UH-1214G



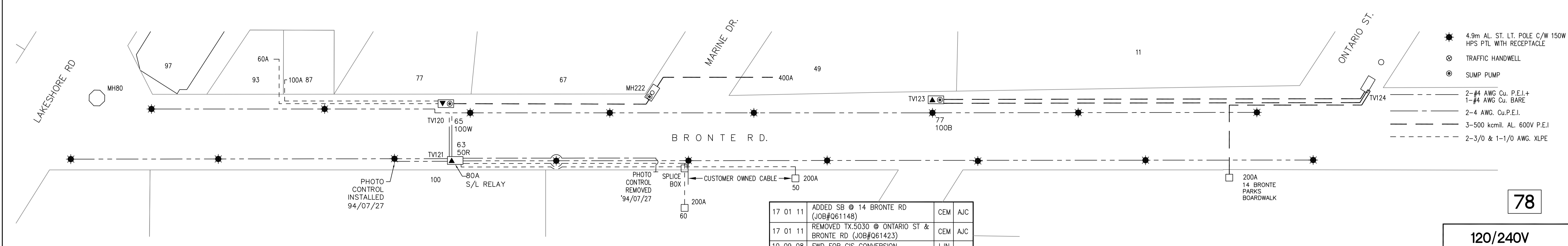
27.6kV



4.16kV



347/600V



120/240V

LEGEND

	MH	MANHOLE
	TV	TRANSFORMER VAULT
	SC	PADMOUNTED SWITCH CUBICLE
	1φ	TRANSFORMER
	3φ	TRANSFORMER
	—/—	SWITCH

NOTES

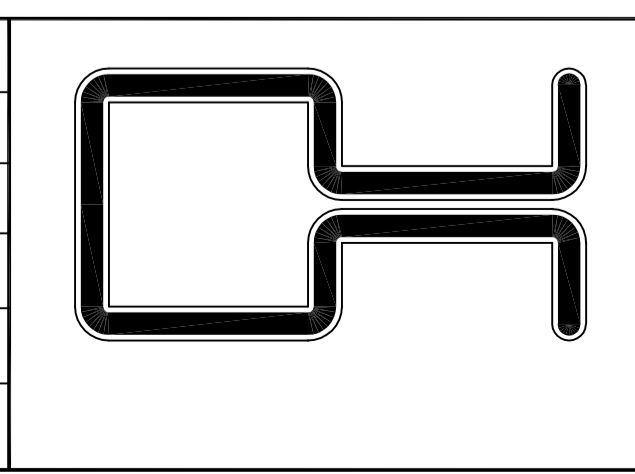
PHOTO CONTROL INSTALLED 94/07/27

PHOTO CONTROL REMOVED 94/07/27

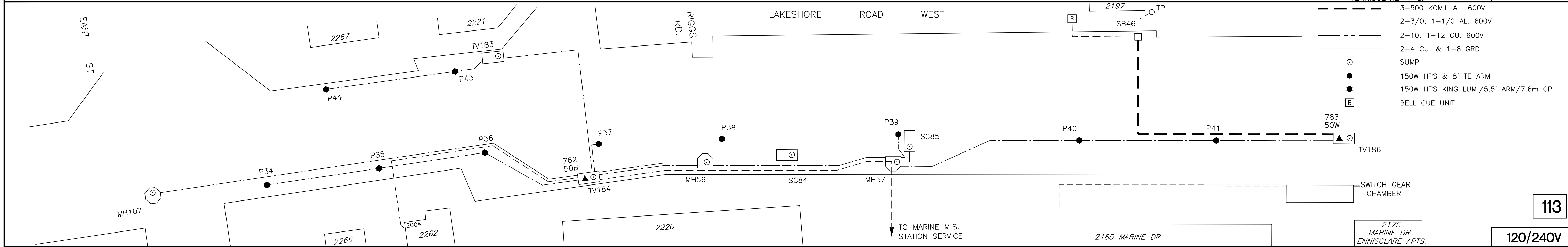
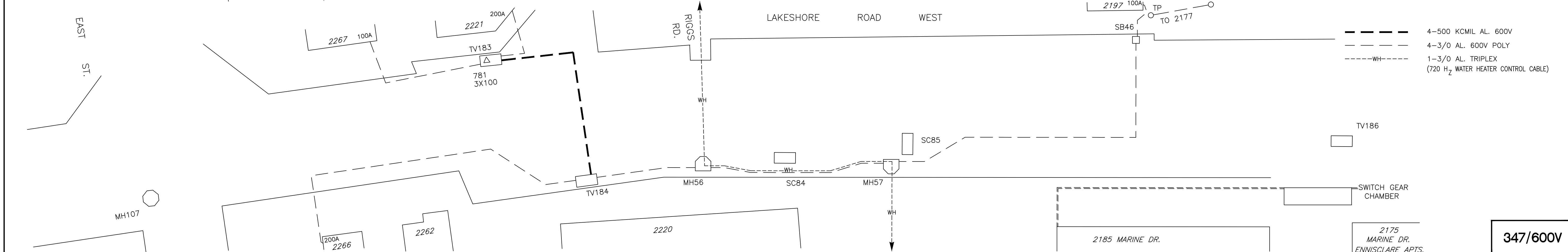
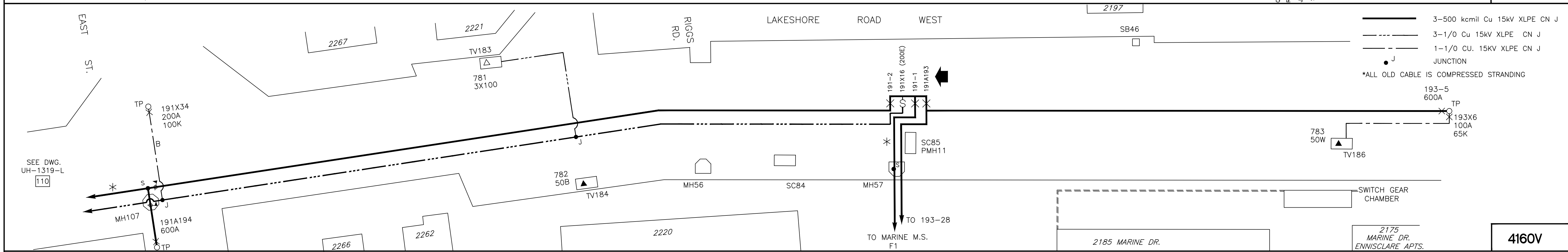
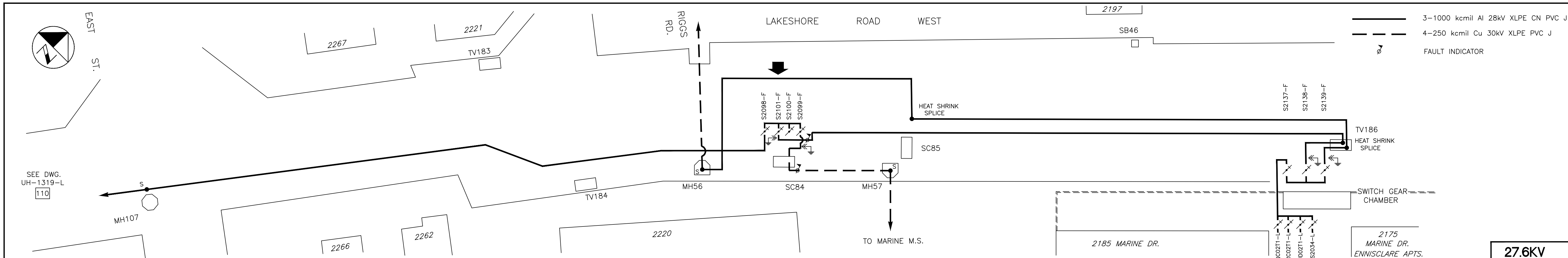
CUSTOMER OWNED CABLE

DATE	REVISIONS	BY	CHKD
17 01 11	ADDED SB @ 14 BRONTE RD (JOB#061148)	CEM	AJC
17 01 11	REMOVED TX.5030 @ ONTARIO ST & BRONTE RD (JOB#061423)	CEM	AJC
10 09 08	FWD FOR GIS CONVERSION	LJN	
09 09 30	2511 LKSRW (HARBOUR CLUB) AS-BUILT PER HYDRO(JOB#21266-1)	BJB	
09 09 14	ADDED SVC @14 BRONTE (21344-1) & GENERAL RVNS INCL. TX. 5030 @TV124 & C.O. CABLE @50 BRONTE	MD	
09 02 18	PAGE REDRAWN	BJB	
94 08 11	PHOTO CONTROL CHANGED	JBD	
93 11 04	GENERAL REVISION	BCH	
89 03 07	GENERAL REVISION	CMN	
88 08 25	GENERAL REVISION	DAB	

FILE	H-82-72	W.O.	82102
DATE		TENDER	3512
DRAWN	SHAPAREW 82 08 13	CHK'D.	
APPROVED	<i>[Signature]</i>		
DIRECTOR OF ENGINEERING	<i>[Signature]</i>		



TITLE	
BRONTE RD LAKESHORE-ONTARIO ST	
U/G SCHEMATIC	
SCALE	DRAWING NO.
N.T.S.	UH-1215G



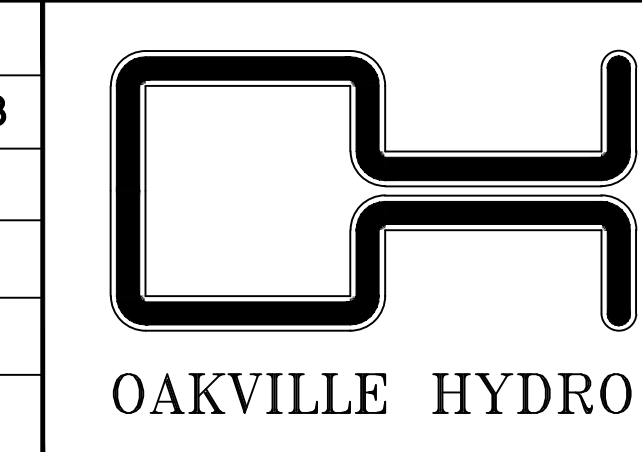
LEGEND

- 3-1000 kcmil Al 28kV XLPE CN PVC J
- 4-250 kcmil Cu 30kV XLPE PVC J
- FAULT INDICATOR
- 3-500 kcmil Cu 15kV XLPE CN J
- 3-1/0 Cu 15kV XLPE CN J
- 1-1/0 CU. 15KV XLPE CN J
- JUNCTION
- *ALL OLD CABLE IS COMPRESSED STRANDING
- 4-500 KCMIL AL. 600V
- 4-3/0 AL. 600V POLY
- 1-3/0 AL. TRIPLEX (720 Hz WATER HEATER CONTROL CABLE)
- 3-500 KCMIL AL. 600V
- 2-3/0, 1-1/0 AL. 600V
- 2-10, 1-12 CU. 600V
- 2-4 CU. & 1-8 GRD
- SUMP
- 150W HPS & 8' TE ARM
- 150W HPS KING LUM./5.5' ARM/7.6m CP
- BELL CUE UNIT

NOTES

REFERENCE DWG. FOR W.O. 91110

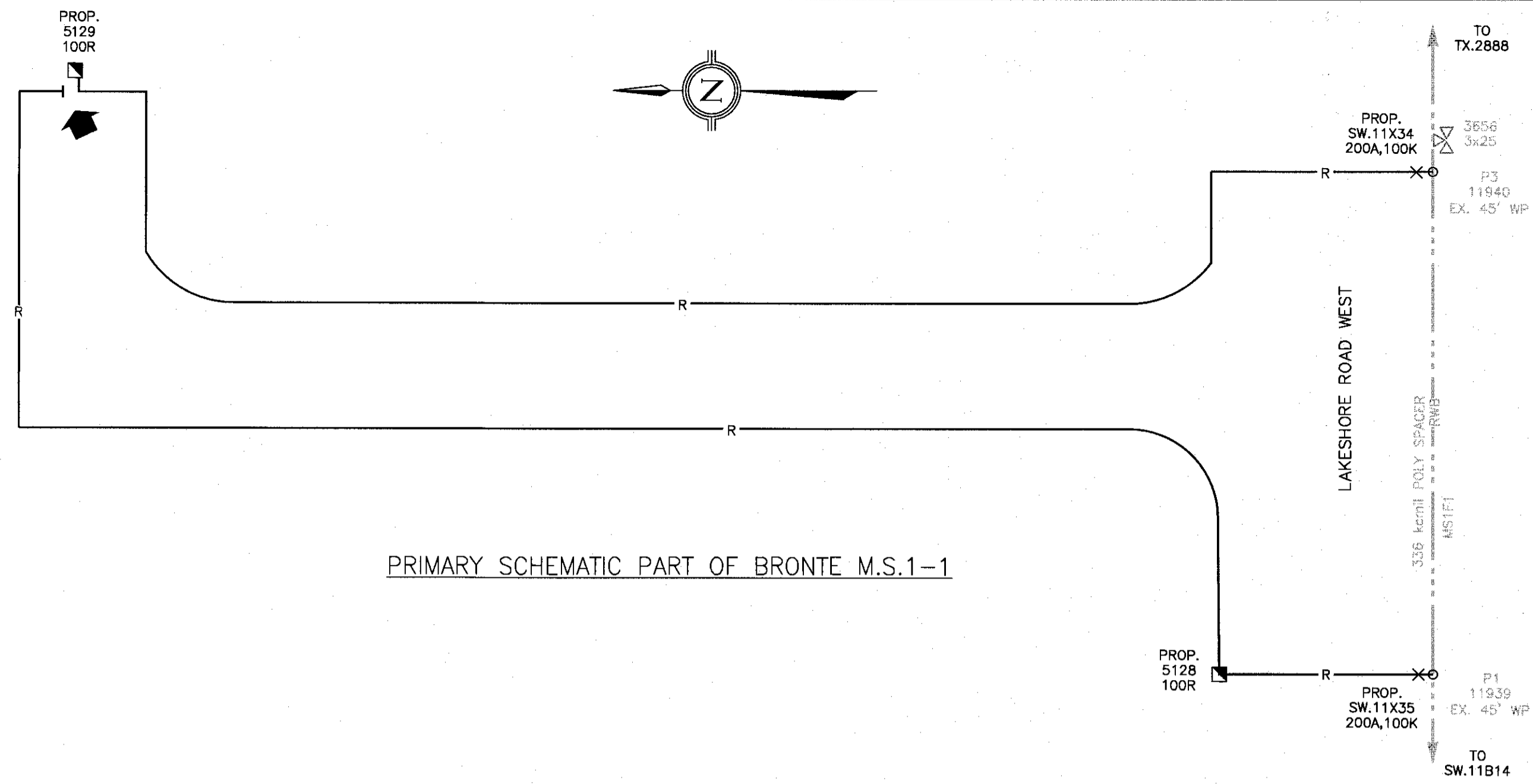
FILE	H-87-82	W.O.	88088
B.C.	813A	TENDER	PT-88-028
REDRAWN	B. CHEESEMAN	DATE	2006 01 23
DESIGN		CHK'D.	
APPROVED	<i>[Signature]</i>		
DIRECTOR OF ENGINEERING	N. Sandford		



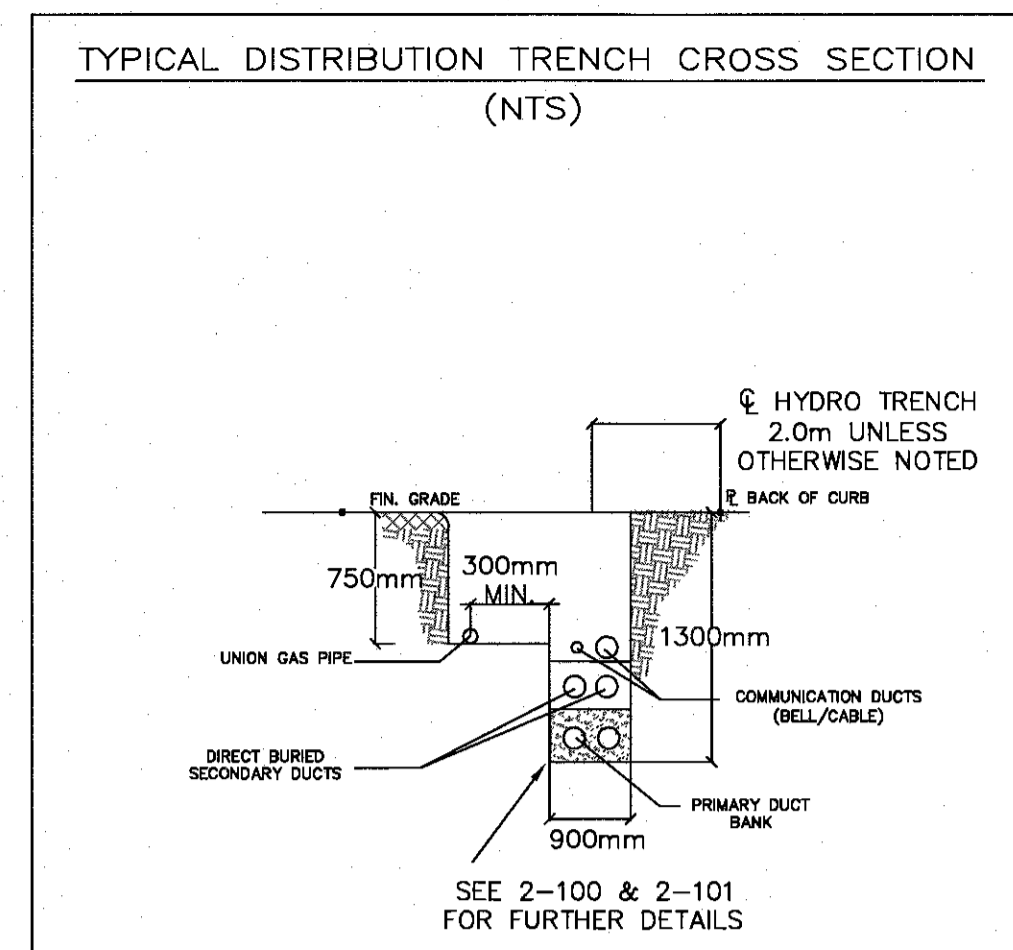
**LAKESHORE RD. W.
EAST STREET TO
ENNISCLARE APTS.
U/G SCHEMATIC**

SCALE: N.T.S. DRAWING NO.: UH-1319-N

DATE	REVISIONS	BY	CHKD
10 09 10	FWD FOR GIS CONVERSION	LJN	
06 01 23	REMOVE 3/0 TRIPLEX & INSTALL 3-500 KCMIL TV186 TO SB46 & ADD BELL CUE SERVICE (W.O. 053552)	BCh	



PRIMARY SCHEMATIC PART OF BRONTE M.S.1-1



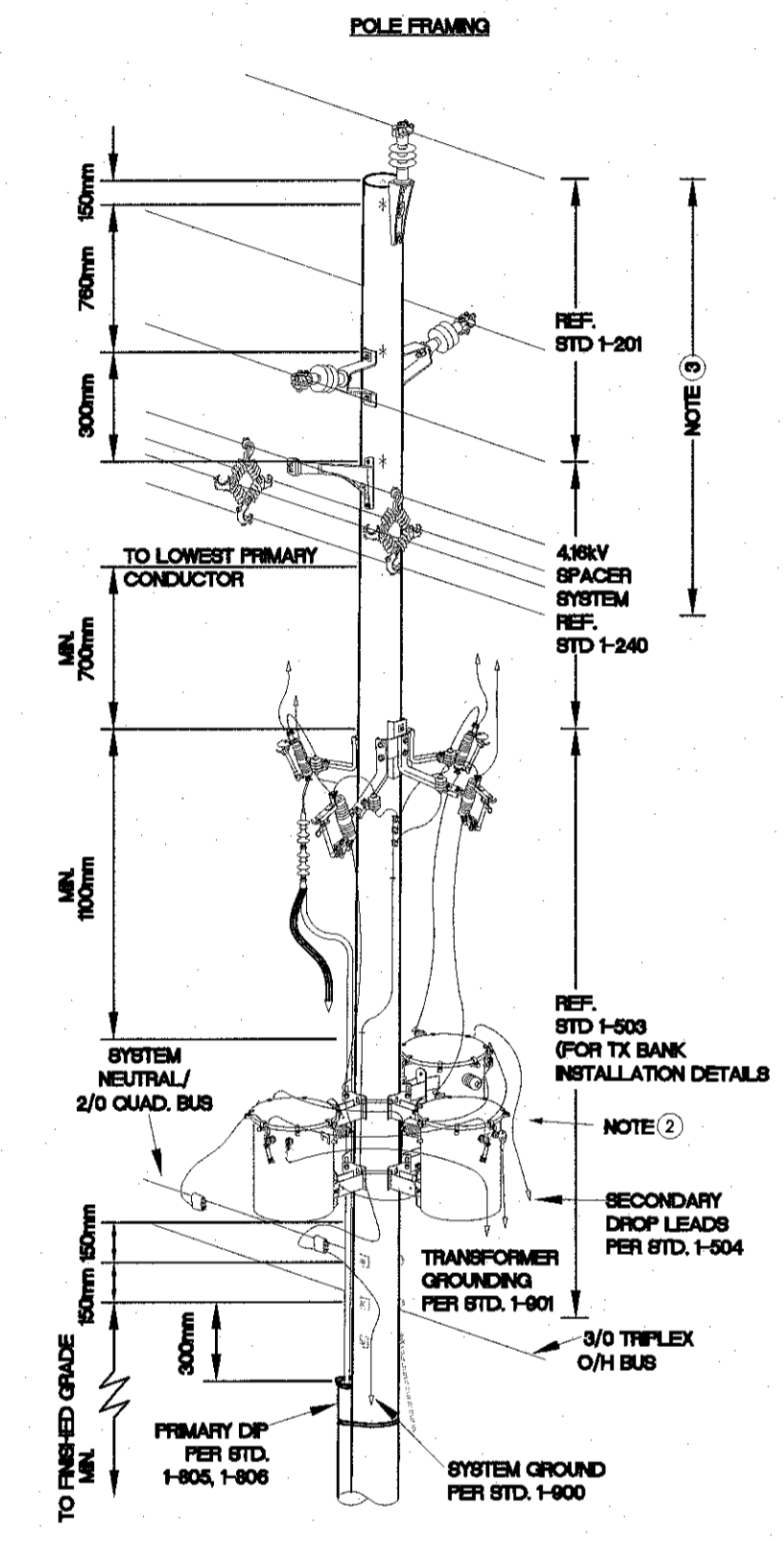
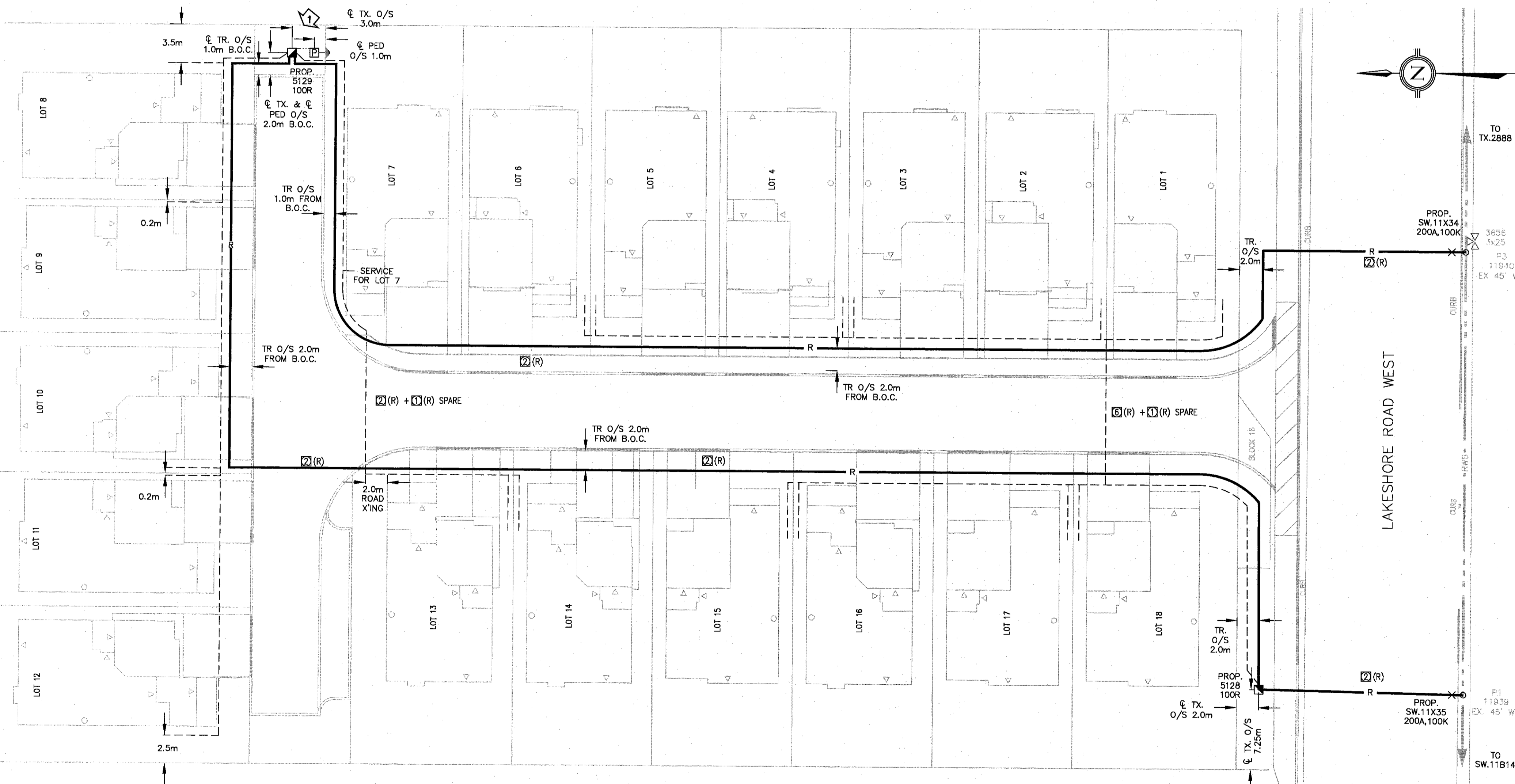
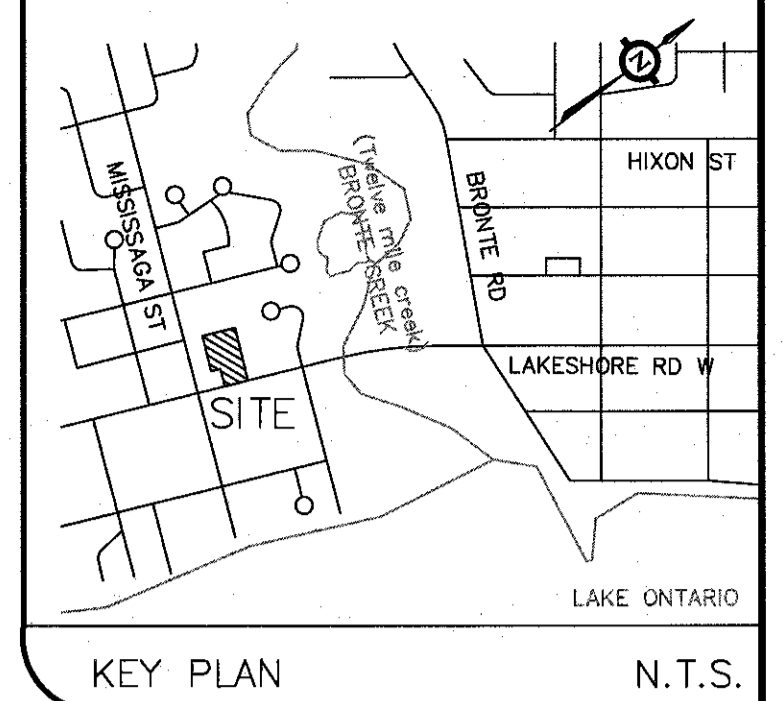
STREETLIGHTING IS PRIVATE AND METERED

DEVELOPER TO PROVIDE BLANKET EASEMENT OVER ENTIRE SITE IN FAVOUR OF OAKVILLE HYDRO

APPLICABLE DESIGN STANDARDS

INSTALLATION OF THE ELECTRICAL DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE FOLLOWING OAKVILLE HYDRO STANDARDS:

INSTALLATION TYPE	APPLICABLE STANDARD DRAWINGS
DISTRIBUTION TRENCH, ROAD CROSSING	2-100, 2-101
SINGLE PHASE PADMOUNT TRANSFORMER	2-206, 2-300
EXTERIOR GROUNDING	2-200
CONCRETE DUCT BANK	2-102, 2-103, 2-109
PRIMARY DIPS	1-805, 1-806
SERVICE TRENCH	2-105



11940 EAST OF 3060 LAKESHORE RD W. 45' WOOD POLE (13.7m) 11.7m A.G. DETAIL 1

- DETAIL 1 NOTES:
- ALL C.N. WIRES SHALL BE BONDED TO SYSTEM NEUTRAL. IF C.N. WIRE IS NOT LONG ENOUGH, SPLICE TO 1/0 CU. WIRE VIA COPPER COMPRESSION CONNECTOR AND INDIVIDUALLY EXTEND C.N. WIRE TO SYSTEM NEUTRAL.
 - EX. 3/0 OH TX. BANK, 3X25kVA (STD 1-503) C/W SINGLE PHASE DIP (STD 1-805) JOB#31138.
 - POLE ID#11939 - SAME TOP POLE FRAMING AS POLE ID#11940.

RECORD OF INSPECTION

THIS CONFIRMS THAT THE INSTALLATION HAS BEEN COMPLETED ACCORDING TO THIS PLAN AND ANY APPROVED CHANGES NOTED.

RECORD OF INSPECTION (APPLIES TO COMPLETE DRAWING) 0/11/13

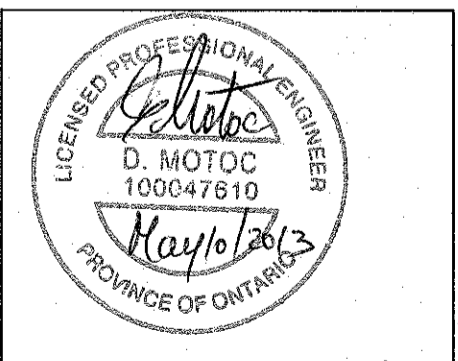
PROGRESSIVE RECORD OF INSPECTION (APPLIES TO HIGHLIGHTED AREA ONLY) 0/11/13

INSPECTION BY: _____

NAME: _____

SIGNATURE: _____

DATE: _____



CERTIFICATE OF APPROVAL

THE INSTALLATION WORK COVERED BY THIS DOCUMENT MEETS THE SAFETY STANDARDS OF SECTION 1 OF THE ONTARIO REGULATION 22/04.

NAME: *D. Motoc*

SIGNATURE: *D. Motoc*

DATE: *May 10, 2013*

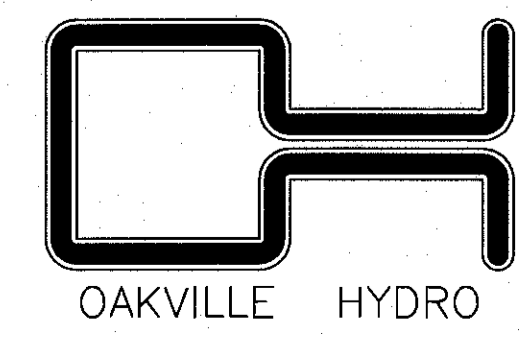
Waterview Common Subdivision - 2047 Lakeshore Road West - Pole Framing Table

POLE I.D.	EXISTING HEIGHTS (IN FEET)	TOP	MIDDLE	SEC / NEUT	DEVICE	ANCHOR	# OF D/G	# OF ANCHORS	MINIMUM LEAD DISTANCE (m)	S/L	COMMENTS
11939	45	1-201	1-240	1-301, 1-806	1-805	-	-	-	-	Y	SEE DETAIL 1 FOR CLEARANCES TO BE MAINTAINED TOP POLE FRAMING FOR FUTURE SPACER CONNECTION
11940	45	1-201	1-240	1-301, 1-806	1-503, 1-805	-	-	-	-	Y	SEE DETAIL 1 FOR CLEARANCES TO BE MAINTAINED TOP POLE FRAMING FOR FUTURE SPACER CONNECTION

- LEGEND
- EXISTING O/H EXPRESS 3-386 kcmil
 - X 4KV SPACER C/W 15KV POLY INSUL. CABLE
 - PROP. SWITCH
 - EX. POLE HEIGHT AS NOTED
 - No. of 100mm CONCRETE ENCASED DUCTS, STEEL REINFORCED, UNLESS OTHERWISE NOTED
 - No. 100mm OF DIRECT BURIED DUCTS UNLESS OTHERWISE NOTED
 - R PROP. 1/0 AL 28KV TR-XLPE-CN-ENC U/G PRIMARY CABLE, PHASE INDICATED IN CONC. ENC S.R. 100mm PVC TYPE 2 DUCT
 - PROP. NEW 3-3/0 AL U/G SECONDARY SERVICE IN CONC. ENC S.R. 100mm PVC TYPE 2 DUCT IN MAIN TRENCH & RD X'INGS ONLY
 - ROAD CROSSING DUCT STRUCTURE (C.E.S.R. - 100mm PVC TYPE 2 DUCT)
 - STREETLIGHT SUPPLY WIRE 3-#4 RWU (RED, WHITE, BLACK) C/W 1 #4 BARE IN 50mm PVC DUCT
 - METERED STREETLIGHT POWER PEDESTAL C/W STREETLIGHT DISCONNECTS & PRECAST CONCRETE BASE
 - GROUNDING TO BE INSTALLED AT LAST LIGHT ON EACH CIRCUIT & S/L PEDESTAL PER ESA
 - PROP. NEW MINI PAD TRANSFORMER (2400/120/240V)
 - EX. OVERHEAD 4KV TRANSFORMER BANK - WYE 600V/347V

- GENERAL NOTES
- ALL SERVICES TO BE LOCATED 0.5m FROM SIDE LOT LINES UNLESS OTHERWISE NOTED
 - PRIMARY DUCT BANK ON PRIVATE PROPERTY IS CONCRETE ENCASED & STEEL REINFORCED
 - CONTRACTOR TO EXERCISE CAUTION TO PREVENT DAMAGE TO ALL EXISTING TREES AND LANDSCAPING DURING CONSTRUCTION.
 - CONTRACTOR TO DIRECTIONAL BORE AND INSTALL 50mm HDPE CONDUIT C/W PRIMARY AND SECONDARY CABLES WITH MINIMUM DIRECTIONAL BORE DEPTH OF 0.9m AND IN ACCORDANCE WITH STANDING INSTRUCTION EO-SI-03-363
 - CONTRACTOR TO LOCATE ALL UTILITIES ACCURATELY IN THE FIELD BEFORE DIRECTIONAL BORING
 - ROAD CROSSING SPARE DUCT TO BE PLACED 1.0m BEHIND CURB

FILE	S-11-442	W.O.	31299
DRAWN	MD	CONTRACTOR:	DATE '12/07/13
DESIGN BY	MD	ASSUMED:	
REVISIONS			
13/05/08	REVISED TX.5128 LOCATION TO AVOID CONFLICT WITH SIDEWALK	MD	CHK'D <i>D. Motoc</i> May 10, 2013
12/12/11	UPDATED TYPICAL DISTRIBUTION TRENCH CROSS SECTION	MD	DESIGN BY <i>Chip...</i> C.E.T.
			DIRECTOR OF ENGINEERING & CONSTRUCTION

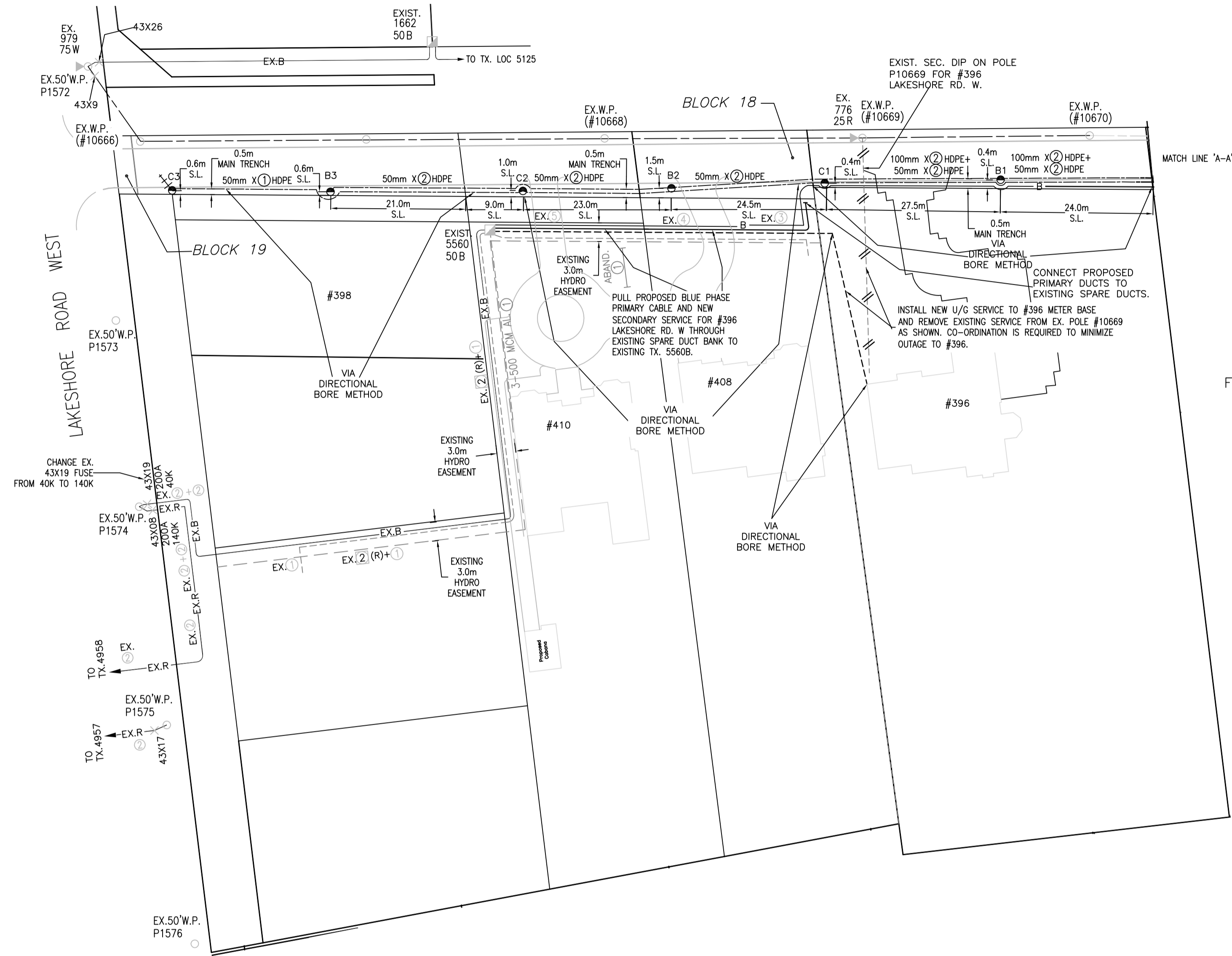
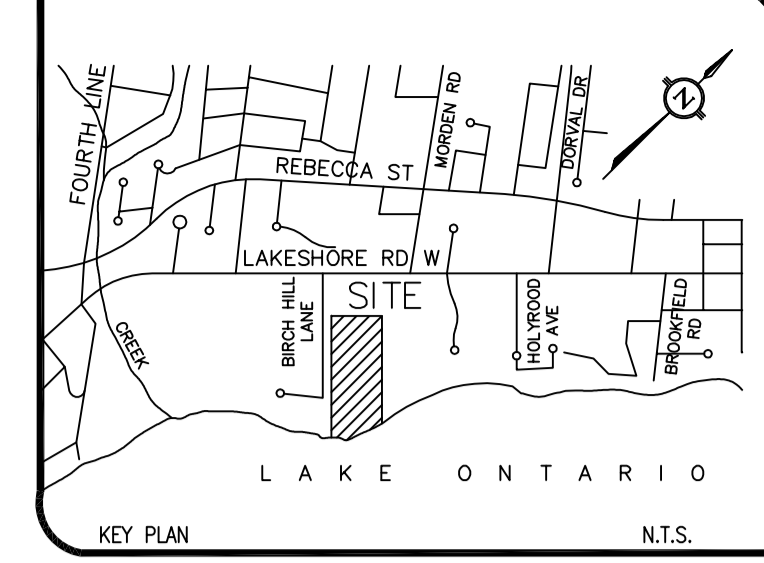
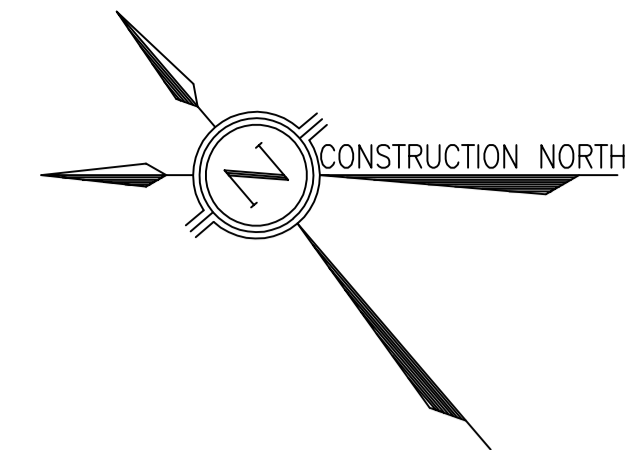


WATERVIEW COMMON
3047/3059
LAKESHORE ROAD WEST

SCALE: 1:250 DRAWING NO. UH-2218

NOTES

- EXISTING OVERHEAD POLE LINE IS PRIVATE. FROM P10666 TO P10674 TO BE REMOVED BY DEVELOPER'S CONTRACTOR ONLY AFTER OAKVILLE HYDRO CONFIRMS THAT O/H LINE HAS BEEN DE-ENERGIZED, EXISTING O/H TX. LOC #776 AND LOC #841 HAVE BEEN REMOVED & NEW SERVICE AT #396 LAKESHORE ROAD WEST HAS BEEN INSTALLED AND RE-CONNECTED AT TX. LOC #5560 AND NEW SERVICE AT #394 (LOT 14) HAS BEEN RE-CONNECTED TO NEW TX. LOC #5131. BELL CANADA AND COGECO CABLE TV TO REMOVE ALL EXISTING PLANT FROM THE EXISTING POLE LINE AND COMPLETE TRANSFER TO UNDERGROUND.
- OAKVILLE HYDRO DOES NOT ALLOW THE INSTALLATION OF JOINT USE COMMUNICATION PLANT WITHIN DIRECTIONALLY BORED TRENCH FOR PROPOSED HYDRO DISTRIBUTION PLANT. PLEASE ENSURE NO COMMUNICATION CABLES ARE INSTALLED WITHIN DIRECTIONALLY DRILLED HYDRO TRENCH. OAKVILLE HYDRO WILL ONLY ALLOW COMMUNICATION PLANT TO BE INSTALLED IN AN EXCLUSIVE TRENCH OFFSET FROM THE PROPOSED DIRECTIONALLY BORED HYDRO TRENCH.



FOR CONTINUATION
SEE UH-2225B

OWNERSHIP DEMARCATION
OWNERSHIP DEMARCATION POINT FOR RESIDENTIAL SERVICES IS LINE SIDE TERMINAL OF METER BASE.

APPLICABLE DESIGN STANDARDS

INSTALLATION OF THE ELECTRICAL DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE FOLLOWING OAKVILLE HYDRO STANDARDS:

INSTALLATION TYPE	APPLICABLE STANDARD DRAWING
DISTRIBUTION TRENCH	HS-200, HS-314, HS-315
ROAD CROSSING	HS-201
SINGLE PHASE PADMOUNT TRANSFORMER	HS-205, HS-206, HS-506
TEMPORARY TRANSFORMER FENCING	HS-224
EXTERIOR GROUNDING	HS-309
CONCRETE ENCASED DUCTBANK	HS-310, HS-312
SECONDARY TERMS	HS-220, HS-221

CAUTION EXISTING U/G CABLES ARE ENERGIZED
CONTRACTOR TO OBTAIN LOCATES BEFORE
COMMENCING ANY WORKS ALONG LAKESHORE
ROAD WEST AND BIRCH HILL LANE

STREETLIGHTING IS PRIVATE AND METERED

DEVELOPER TO PROVIDE A BLANKET EASEMENT
OVER ENTIRE PRIVATE SITE IN FAVOUR OF
OAKVILLE HYDRO

LEGEND

	75kVA - 2400 - 120/240V MINI PAD TRANSFORMER.		NORMAL OPEN POINT
	1-1/0 AL 28kV TRXLPEI CN-ENC PRIMARY CABLE AND PHASE CONTINUOUS IN C.E. 100mm PVC TYPE 2 DUCT (PROPOSED), UNLESS OTHERWISE NOTED.		FAULT INDICATOR.
	3-3/0 AL 600V XLPEI PVCJ SECONDARY CABLE IN D.B. 100mm PVC TYPE 2 DUCT		EXISTING WOOD POLE
	EXISTING 1-1/0 AL 28kV TRXLPEI PVCJ PRIMARY CABLE AND PHASE.		PROPOSED WOOD POLE
	EXISTING 1/0 ACSR AL OVERHEAD PRIMARY CABLE.		EXISTING WOOD POLE TO BE REMOVED
	No. OF 100mm PVC CONCRETE ENCASED DUCT REINFORCED.		
	NO. OF 100mm/50mm PVC DIRECT BURIED DUCTS OR HDPE AS MARKED		
	FREE STANDING METERED HOUSE SERVICE PANEL		
	PRIVATE STREETLIGHT CABLE TO BE 2-#6 Cu. NMWU C/W 1-#10 Cu. CSA GROUND CABLE INSTALLED IN 50mm D.B. PVC TYPE 2 DUCT.		
	EXISTING 2.4kV 120/240V O/H TRANSFORMER SIZE AS NOTED.		
	PRIVATE DECORATIVE STREETLIGHT DESCRIPTION: LUMINAIRE: MANUFACTURED BY KING LUMINAIRE COMPANY INC. CAT. # K601-1-HAC-III-70(MOG)-HPS-120-2-G-PE-F4-CSA C/W INDIVIDUAL PHOTO CONTROL. POLE: MANUFACTURED BY STRESS/CRETE LTD. CAT.# KCC20-G-S11 C/W 140-35/40.		

+++ GROUNDING TO BE INSTALLED AT LAST LIGHT ON EACH CIRCUIT PER E.S.A.

MUNICIPAL R.O.W.

- ALL SERVICES & S/L TO BE LOCATED 2.0m FROM SIDE LOT LINES UNLESS OTHERWISE NOTED * INDICATES SERVICE OFFSET IS 1.0m
- ALL TRENCH OFFSETS TO BE 3.0m FROM ST. LINE & 3.5m FOR ST.L. POLES UNLESS OTHERWISE NOTED.

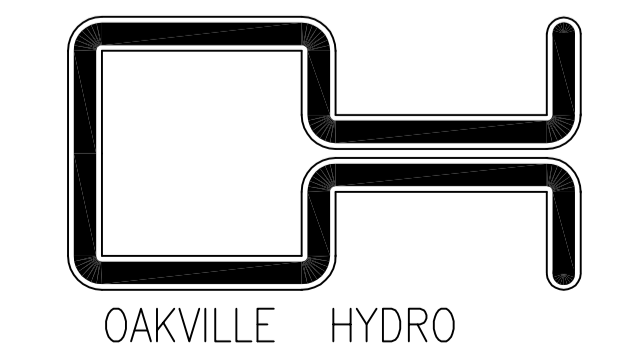
PRIVATE LANEWAY & DEVELOPMENT

- ALL TRENCH OFFSETS TO BE 2.3m FROM BACK OF CURB TO CENTRE UNLESS OTHERWISE NOTED.
- STREETLIGHT OFFSETS TO BE 1.8m FROM BACK OF CURB TO CENTRE UNLESS OTHERWISE NOTED.
- TRANSFORMER OFFSETS TO BE 2.0m FROM BACK OF CURB TO CENTRE UNLESS OTHERWISE NOTED.
- ROAD X'ING. TO BE LOCATED AT CENTRELINE OF TRANSFORMER UNLESS OTHERWISE NOTED.
- MAINTENANCE OF PRIVATE LIGHTING SYSTEM IS BY OTHER THAN OAKVILLE HYDRO. INSPECTION OF PRIVATE SYSTEM IS UNDER ELECTRICAL SAFETY AUTHORITY INSPECTION JURISDICTION.
- PRIMARY CABLE IS TO BE INSTALLED IN A 100mm PVC TYPE 2 DUCT, CONCRETE ENCASED & STEEL REINFORCED. SECONDARY CABLE IS TO BE INSTALLED IN A 100mm PVC D.B. DUCT.

REVISIONS

DATE	DESCRIPTION	BY	CHK'D
2016.09.21	ADD NEW 400A SVC. @ 410 LSRW (JOB#Q60325)	SS	AJC
2013.05.30	AS BUILT BY HYDRO	AS	AJC
2013.05.23	AS-CONSTRUCTED BY CON-ELCO	H.P.B.	T.J.G.
2012.11.14	REV. PER HYDRO COMMENTS RECEIVED 2012.11.14	H.P.B.	S.C.G.
2012.11.08	REV. PER HYDRO COMMENTS RECEIVED 2012.11.01	H.P.B.	
2012.10.16	REV. PER PROPOSED SITE PLAN #408 & #410 LAKESHORE RD. W. RECEIVED 2012.10.12	H.P.B.	
2012.10.16	REV. PER HYDRO COMMENTS RECEIVED 2012.09.19	H.P.B.	

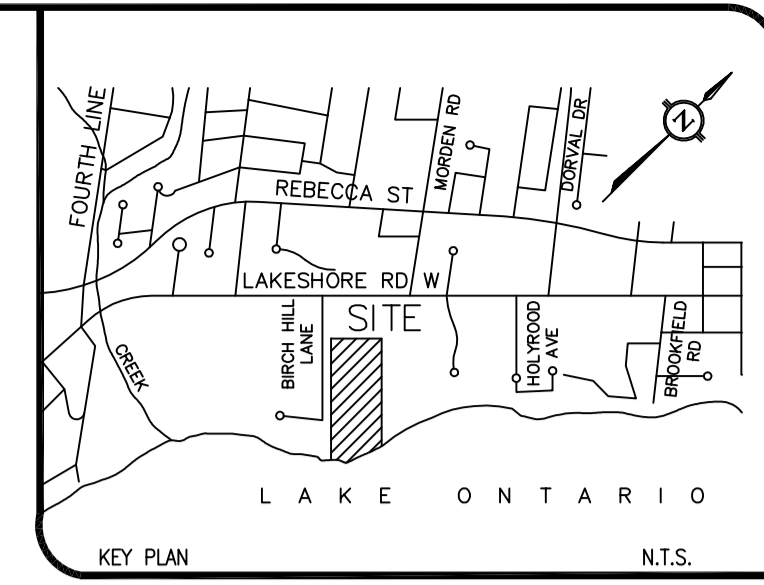
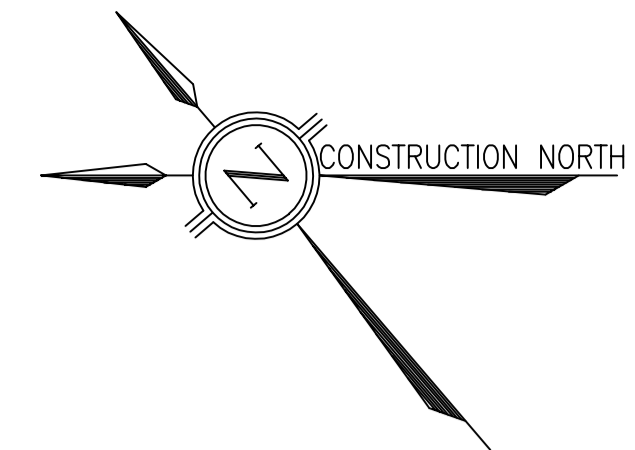
FILE S-12-450	JOB 31339
CONTRACTOR: ASSUMED.	
DRAWN 2012.06.18 H.P.B.	
CHK'D	
DESIGN BY S.C.G.	
DIRECTOR OF ENGINEERING & CONSTRUCTION	



EDGEWATER
(394 LAKESHORE OAKVILLE HOLDINGS INC.)
HYDRO DISTRIBUTION

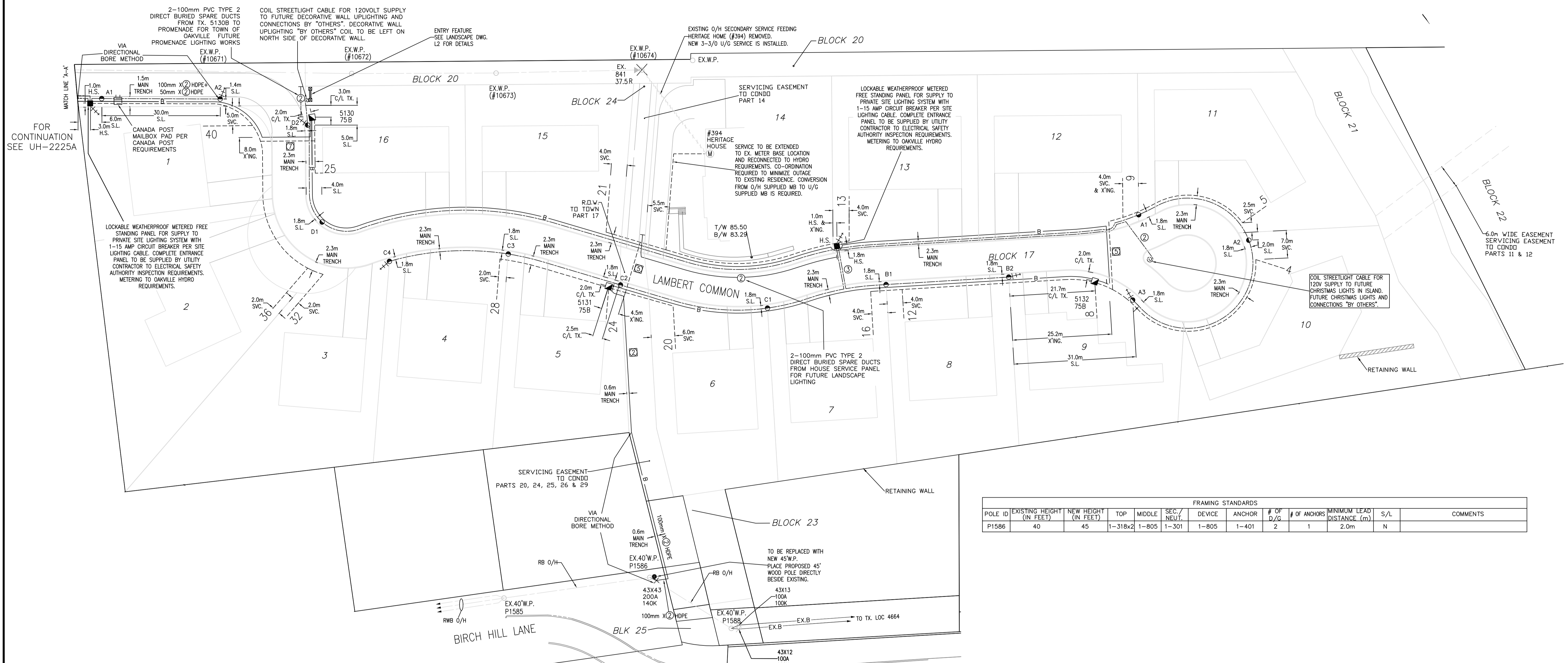
SCALE 1:500 EXCEPT SYMBOLS
DRAWING NO. UH-2225A

SHIT 1 OF 3



NOTES

- EXISTING OVERHEAD POLE LINE IS PRIVATE. FROM P10666 TO P10674 TO BE REMOVED BY DEVELOPER'S CONTRACTOR ONLY AFTER OAKVILLE HYDRO CONFIRMS THAT O/H LINE HAS BEEN DE-ENERGIZED, EXISTING O/H TX. LOC #776 AND LOC #841 HAVE BEEN REMOVED & NEW SERVICE AT #394 LAKESHORE ROAD WEST HAS BEEN INSTALLED AND RE-CONNECTED AT TX. LOC #5560 AND NEW SERVICE AT #394 (LOT 14) HAS BEEN RE-CONNECTED TO NEW TX. LOC #5131. BELL CANADA AND COGECO CABLE TV TO REMOVE ALL EXISTING PLANT FROM THE EXISTING POLE LINE AND COMPLETE TRANSFER TO UNDERGROUND.
- OAKVILLE HYDRO DOES NOT ALLOW THE INSTALLATION OF JOINT USE COMMUNICATION PLANT WITHIN DIRECTIONALLY BORED TRENCH FOR PROPOSED HYDRO DISTRIBUTION PLANT. PLEASE ENSURE NO COMMUNICATION CABLES ARE INSTALLED WITHIN DIRECTIONALLY DRILLED HYDRO TRENCH. OAKVILLE HYDRO WILL ONLY ALLOW COMMUNICATION PLANT TO BE INSTALLED IN AN EXCLUSIVE TRENCH OFFSET FROM THE PROPOSED DIRECTIONALLY BORED HYDRO TRENCH.



POLE ID	EXISTING HEIGHT (IN FEET)	NEW HEIGHT (IN FEET)	FRAMING STANDARDS				# OF D/G	# OF ANCHORS	MINIMUM LEAD DISTANCE (m)	S/L	COMMENTS	
			TOP	MIDDLE	SEC. NEUT.	DEVICE						
P1586	40	45	1-318x2	1-805	1-301	1-805	1-401	2	1	2.0m	N	

CAUTION EXISTING U/G CABLES ARE ENERGIZED CONTRACTOR TO OBTAIN LOCATES BEFORE COMMENCING ANY WORKS ALONG LAKESHORE ROAD WEST AND BIRCH HILL LANE

STREETLIGHTING IS PRIVATE AND METERED

DEVELOPER TO PROVIDE A BLANKET EASEMENT OVER ENTIRE PRIVATE SITE IN FAVOUR OF OAKVILLE HYDRO

OWNERSHIP DEMARCATION
OWNERSHIP DEMARCATION POINT FOR RESIDENTIAL SERVICES IS LINE SIDE TERMINAL OF METER BASE.

APPLICABLE DESIGN STANDARDS

INSTALLATION OF THE ELECTRICAL DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE FOLLOWING OAKVILLE HYDRO STANDARDS:

INSTALLATION TYPE	APPLICABLE STANDARD
DISTRIBUTION TRENCH	HS-200, HS-314, HS-315
ROAD CROSSING	HS-201
SINGLE PHASE PADMOUNT TRANSFORMER	HS-205, HS-206, HS-506
TEMPORARY TRANSFORMER FENCING	HS-224
EXTERIOR GROUNDING	HS-309
CONCRETE ENCASED DUCTBANK	HS-310, HS-312
SECONDARY TERMS	HS-220, HS-221

LEGEND

- 75kVA - 2400 - 120/240V MINI PAD TRANSFORMER.
- 1-1/0 AL 28kV TROLPEI ON-ENC PRIMARY CABLE AND PHASE CONTINUOUS IN C.E. 100mm PVC TYPE 2 DUCT (PROPOSED), UNLESS OTHERWISE NOTED.
- 3-3/0 AL 600V XLPEI PVCJ SECONDARY CABLE IN D.B. 100mm PVC TYPE 2 DUCT
- EX.B - EXISTING 1-1/0 AL 28kV TROLPEI PVCJ PRIMARY CABLE AND PHASE.
- EXISTING 1/0 ACSR AL OVERHEAD PRIMARY CABLE.
- No. OF 100mm PVC CONCRETE ENCASED DUCT REINFORCED.
- No. OF 100mm/50mm PVC DIRECT BURIED DUCTS OR HDPE AS MARKED
- H.S. - FREE STANDING METERED HOUSE SERVICE PANEL.
- PRIVATE STREETLIGHT CABLE TO BE 2-#6 Cu. NMWU C/W 1-#10 Cu. CSA GROUND CABLE INSTALLED IN 50mm D.B. PVC TYPE 2 DUCT. EXISTING 2.4kV 120/240V O/H TRANSFORMER SIZE AS NOTED.
- PRIVATE DECORATIVE STREETLIGHT DESCRIPTION: LUMINAIRE: MANUFACTURED BY KING LUMINAIRE COMPANY INC. CAT. # K501-T-HAC-B-70(M03)-HPS-120-2-G-PE-F4-CSA C/W INDIVIDUAL PHOTO CONTROL. POLE: MANUFACTURED BY STRESS/CRETE LTD. CAT. # KC220-G-S11 C/W 140-35/40.
- NORMAL OPEN POINT
- FAULT INDICATOR.
- EXISTING WOOD POLE
- PROPOSED WOOD POLE
- EXISTING WOOD POLE TO BE REMOVED

--- GROUNDING TO BE INSTALLED AT LAST LIGHT ON EACH CIRCUIT PER E.S.A.

MUNICIPAL R.O.W.

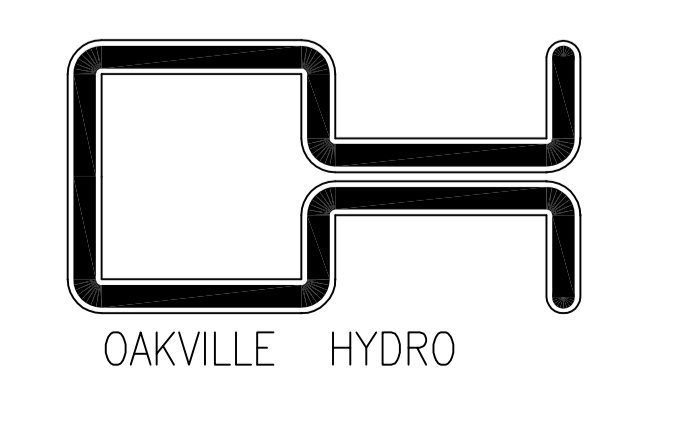
- ALL SERVICES & S/L TO BE LOCATED 2.0m FROM SIDE LOT LINES UNLESS OTHERWISE NOTED * INDICATES SERVICE OFFSET IS 1.0m
- ALL TRENCH OFFSETS TO BE 3.0m FROM ST. LINE & 3.5m FOR ST.LT. POLES UNLESS OTHERWISE NOTED.

PRIVATE LANEWAY & DEVELOPMENT

- ALL TRENCH OFFSETS TO BE 2.3m FROM BACK OF CURB TO CENTRE UNLESS OTHERWISE NOTED.
- STREETLIGHT OFFSETS TO BE 1.8m FROM BACK OF CURB TO CENTRE UNLESS OTHERWISE NOTED.
- TRANSFORMER OFFSETS TO BE 2.0m FROM BACK OF CURB TO CENTRE UNLESS OTHERWISE NOTED.
- ROAD X'ING. TO BE LOCATED AT CENTRELINE OF TRANSFORMER UNLESS OTHERWISE NOTED.
- MAINTENANCE OF PRIVATE LIGHTING SYSTEM IS BY OTHER THAN OAKVILLE HYDRO. INSPECTION OF PRIVATE SYSTEM IS UNDER ELECTRICAL SAFETY AUTHORITY INSPECTION JURISDICTION.
- PRIMARY CABLE IS TO BE INSTALLED IN A 100mm PVC TYPE 2 DUCT, CONCRETE ENCASED & STEEL REINFORCED. SECONDARY CABLE IS TO BE INSTALLED IN A 100mm PVC D.B. DUCT.

DATE	DESCRIPTION	BY	APP'D
2013.05.30	AS BUILT BY HYDRO	AS	A.I.C.
2013.05.27	MUNICIPAL ADDRESS NUMBERS ADDED	C.L.	T.J.G.
2013.05.23	AS-CONSTRUCTED BY CON-ELCO	H.P.B.	
2012.11.27	PROVIDE 120V SUPPLY FOR LIGHTS IN ISLAND PER DEVELOPER'S REQUEST.	H.P.B.	
2012.11.14	REV. PER HYDRO COMMENTS RECEIVED 2012.11.14	H.P.B. S.C.G.	
2012.11.08	REV. PER HYDRO COMMENTS RECEIVED 2012.11.01	H.P.B.	
2012.10.18	DIRECTIONAL BORE TO P1586 DUE TO EX. TREES.	S.C.G.	
2012.10.16	REV. PER PROPOSED SITE PLAN #408 & #410 LAKESHORE RD. W. RECEIVED 2012.10.12	H.P.B.	
2012.10.16	REV. PER HYDRO COMMENTS RECEIVED 2012.09.19	H.P.B.	

FILE S-12-450	JOB 31339
CONTRACTOR ASSUMED:	
DRAWN 2012.06.18	H.P.B.
CHK'D	
DESIGN BY	S.C.G.
DIRECTOR OF ENGINEERING & CONSTRUCTION	



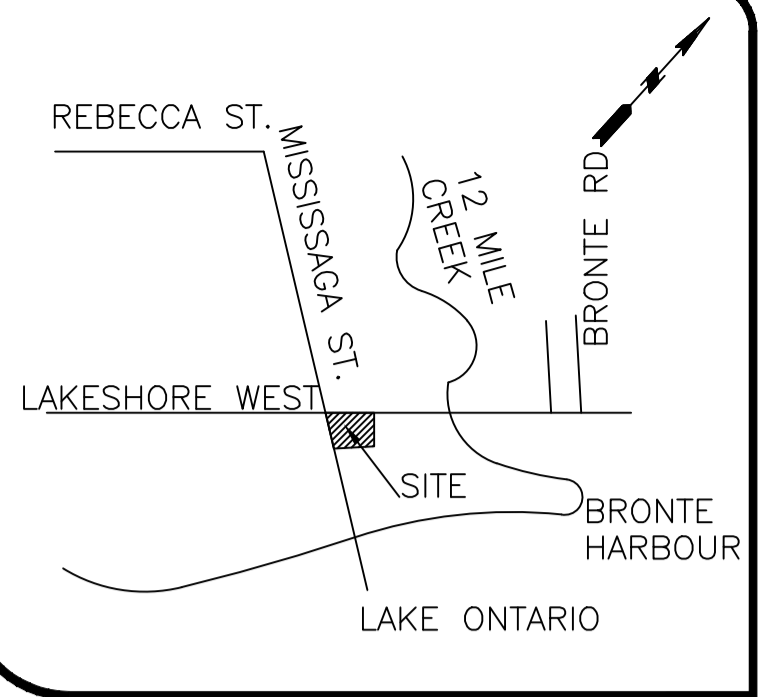
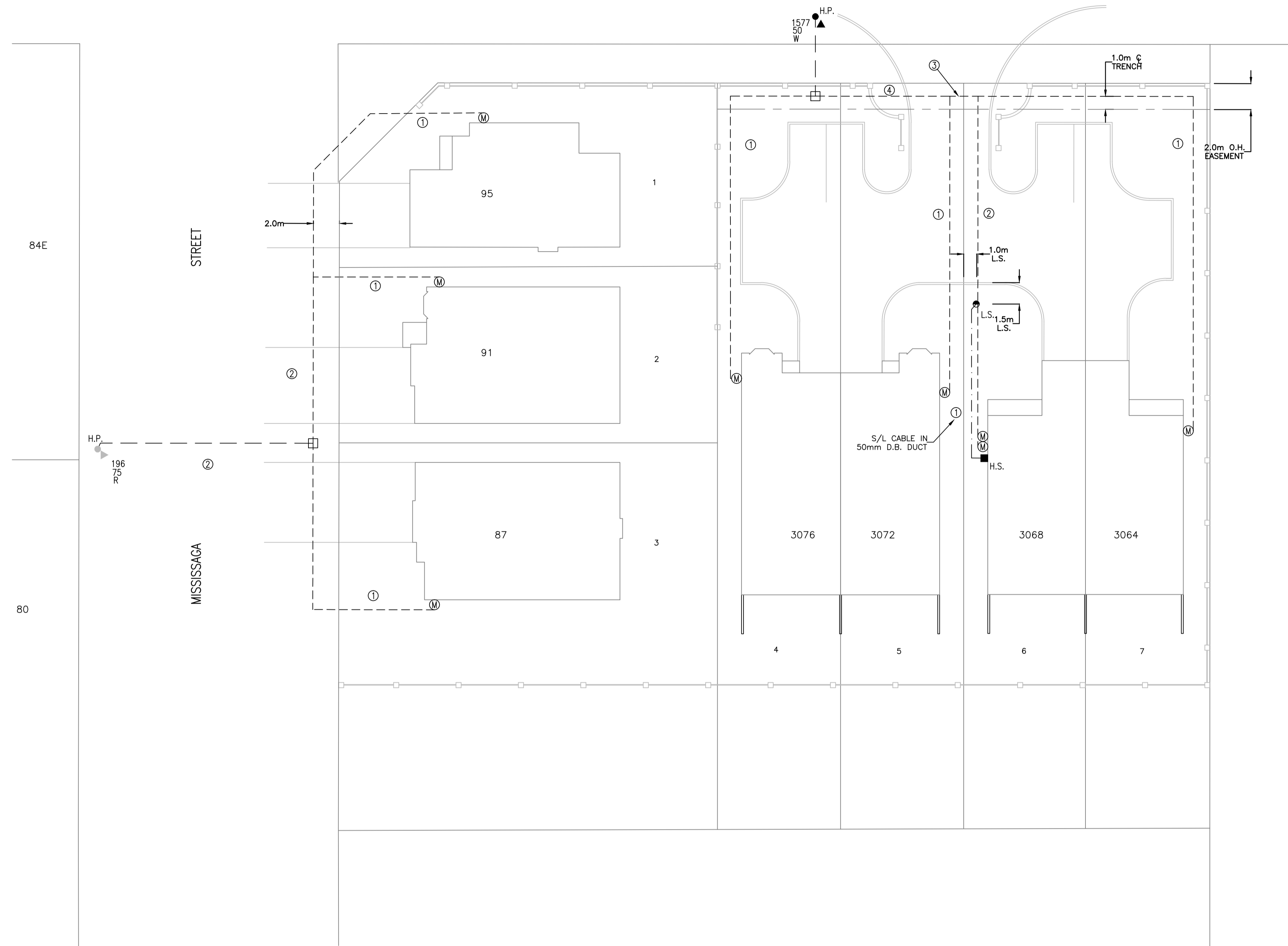
EDGEWATER
(394 LAKESHORE OAKVILLE HOLDINGS INC.)
HYDRO DISTRIBUTION

SHT 2 OF 3

SCALE 1:500 EXCEPT SYMBOLS

DRAWING NO. UH-2225B

LAKESHORE ROAD WEST



KEY PLAN n.t.s.

STREETLIGHTING IS PRIVATE AND METERED



ASSUMED: APRIL 18, 2006

LEGEND

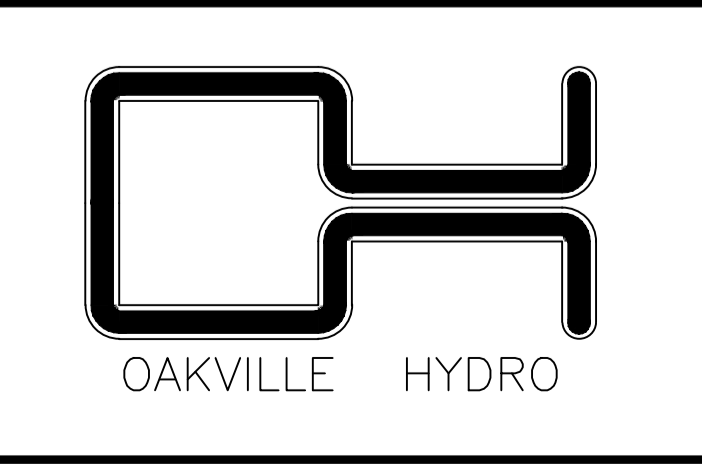
- 2-3/0 AND 1-1/0 AL INDIVIDUAL SECONDARY SERVICE CABLE
- 3-500kcmil AL 600V BUS (120/240V)
- 2-#6 Cu. NMWU PRIVATE S/L CABLE IN DIRECT BURIED 50mm DUCT
- LS STREETLIGHT
- ▲ 50kVA, 2400/120/240V POLE MOUNTED TRANSFORMER
- Ⓜ METER
- ② NO. OF 100mm PVC DIRECT BURIED DUCTS OR 50mm WHERE SHOWN
- FRE JUNCTION BOX MANUFACTURED BY PENCELL. CAT.# PE30UX WITH 3 HOMAC CONNECTORS CAT.# FS-5-125.
- H.S. HOUSE SERVICE

NOTES

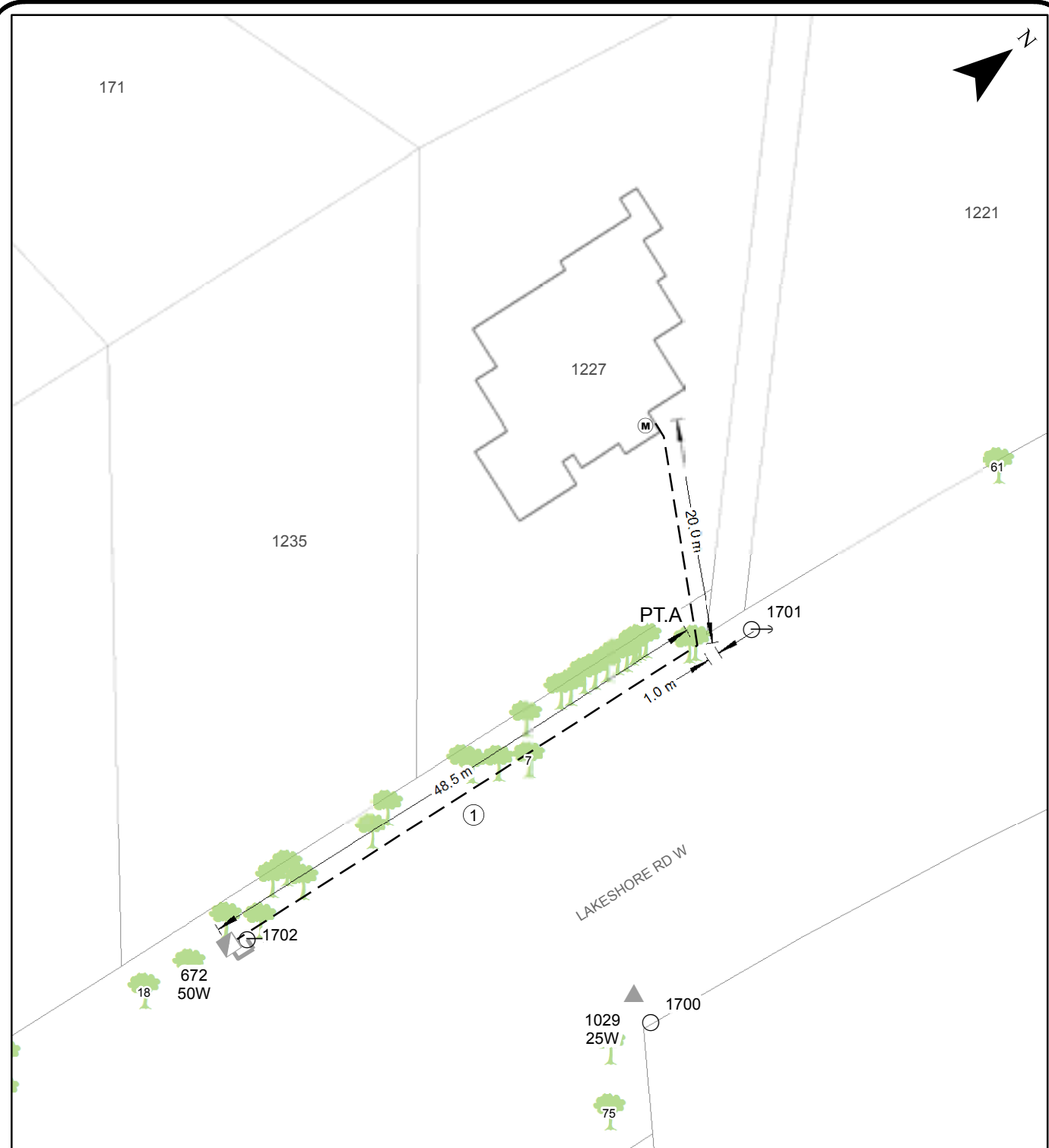
- 1) EACH SECONDARY CABLE IS TO BE INSTALLED IN A 100mm PVC TYPE II DIRECT BURIED DUCT.
- 2) ALL METER BASES TO BE RECESSED PER O.H.E.C. STANDARD DRAWINGS HS-211A & B.

DATE	DESCRIPTION	BY
10.08.13	FWD FOR GIS CONVERSION	LJN
07.09.04	ASSUMED	BJB
00.03.06	AS-BUILT PER HYDRO	BJB
99.03.11	REV PER OWNER REQUEST	J.S.
99.02.25	REV PER HYDRO 1st. SUB. COMMENTS	J.F.
99.01.19	REV PER HYDRO REQUEST	J.F.

FILE 98-52	W.O. 053048
PLAN:	CONTRACTOR ASSUMED:
DRAWN J.F. DATE 98.08.17	CAD. CHK'D
CHK'D J.F. 99/03/17	99 03 17
DESIGN BY	
DIRECTOR OF ENGINEERING & OPERATIONS <i>N. Sandford</i>	



HARBOUR POINTE T/H MISSISSAGA ST & LAKESHORE RD W HYDRO DISTRIBUTION SYSTEM	
SCALE 1:200 EXCEPT SYMBOLS	DRAWING NO. UH-1691



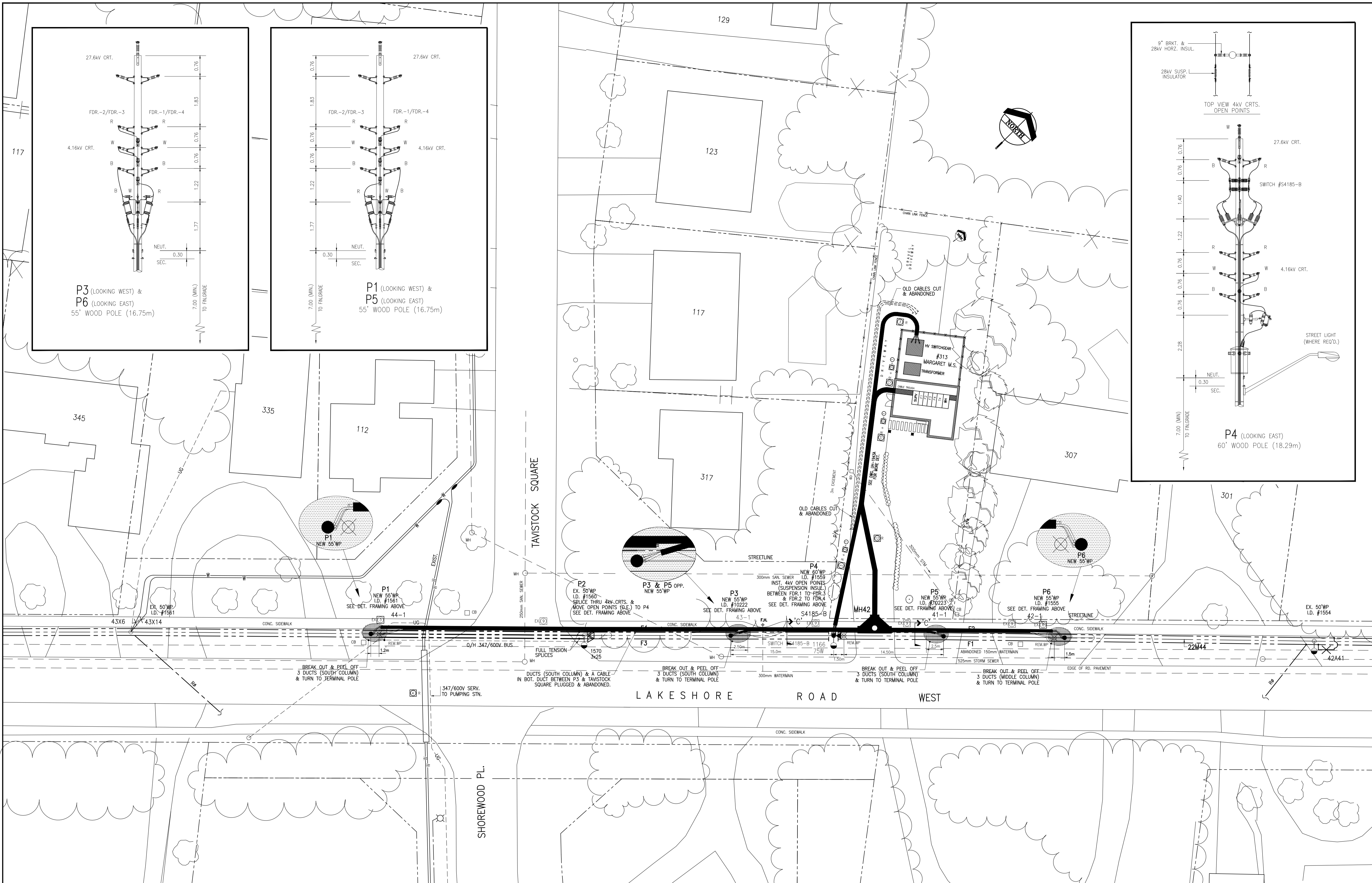
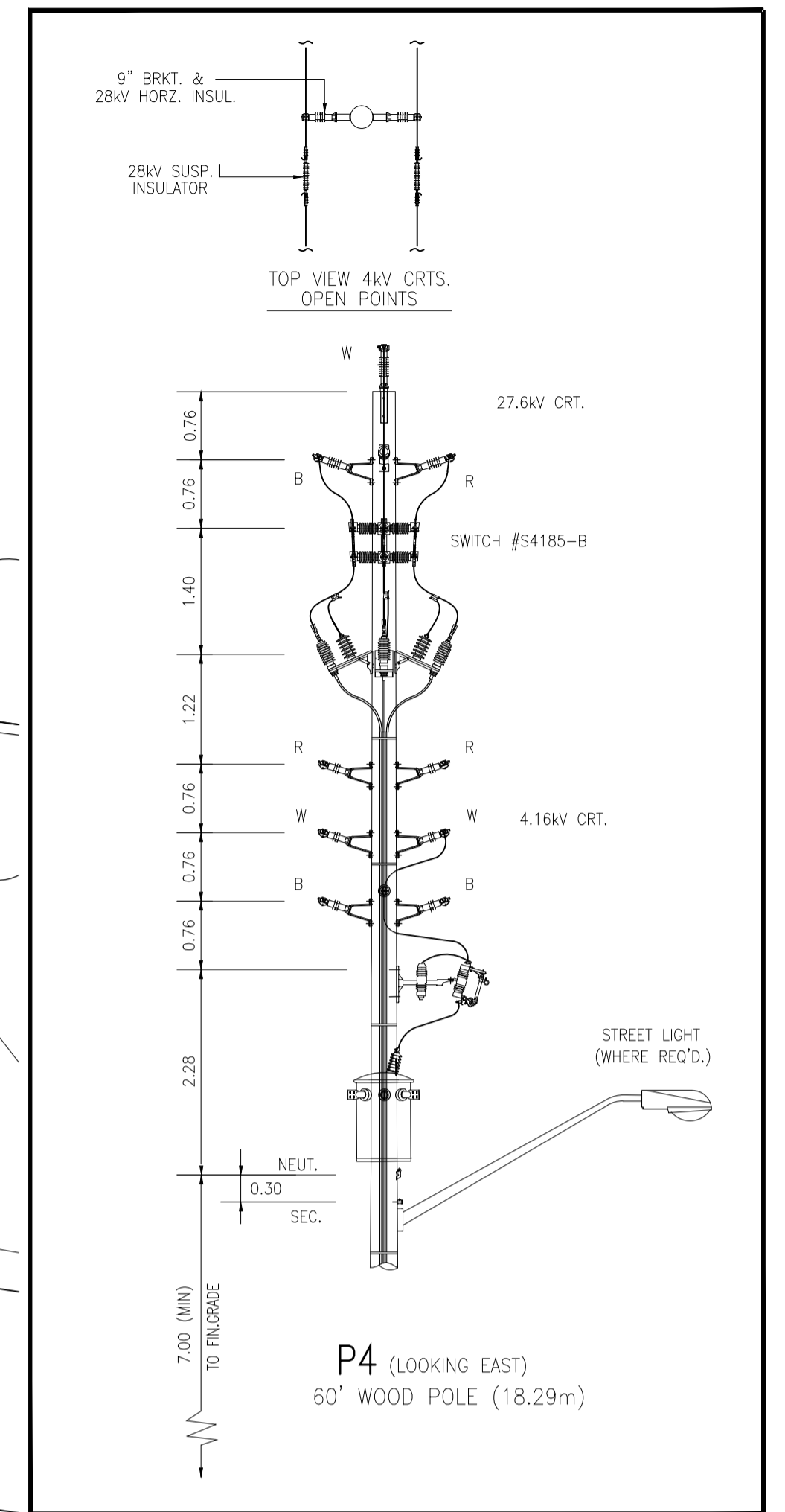
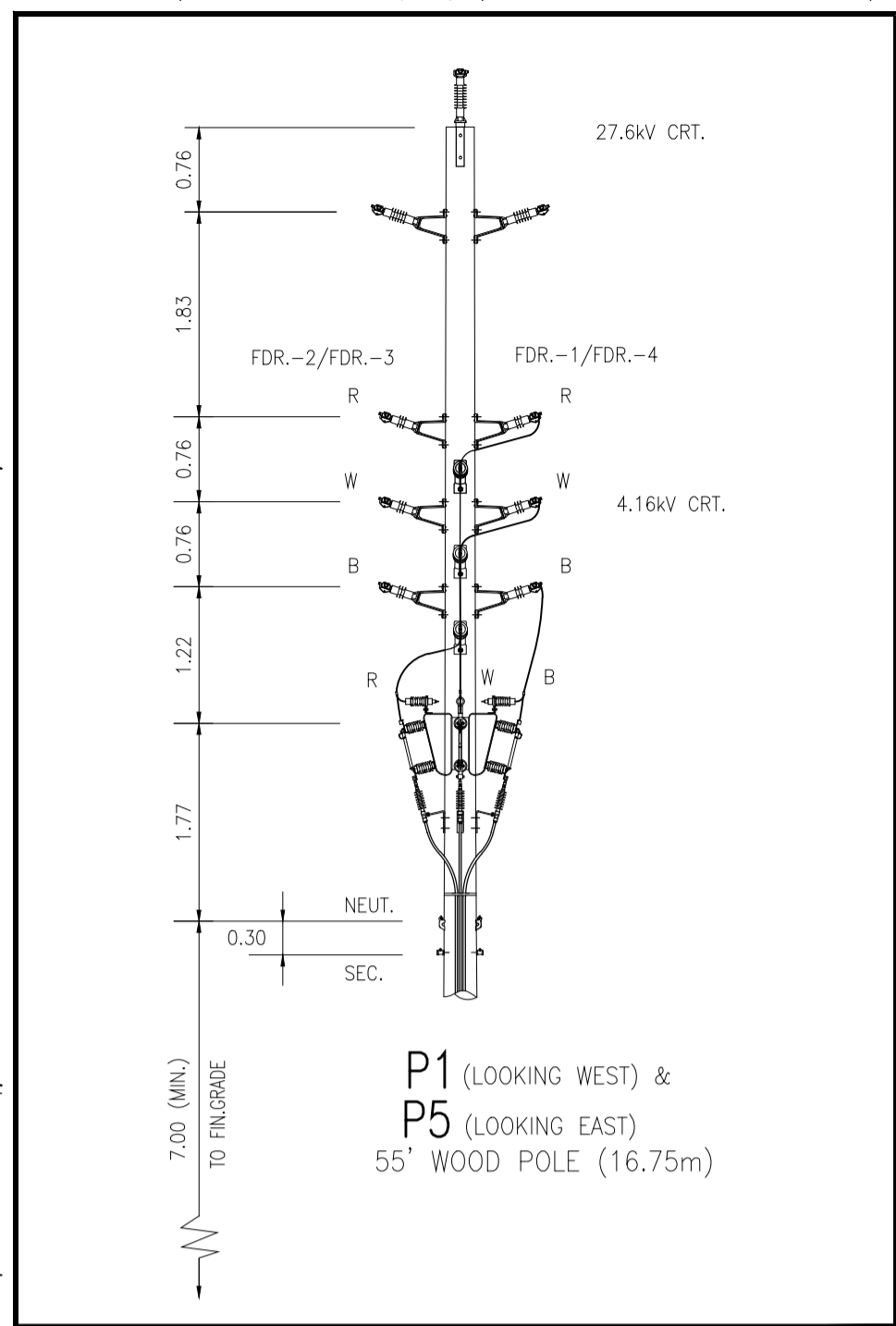
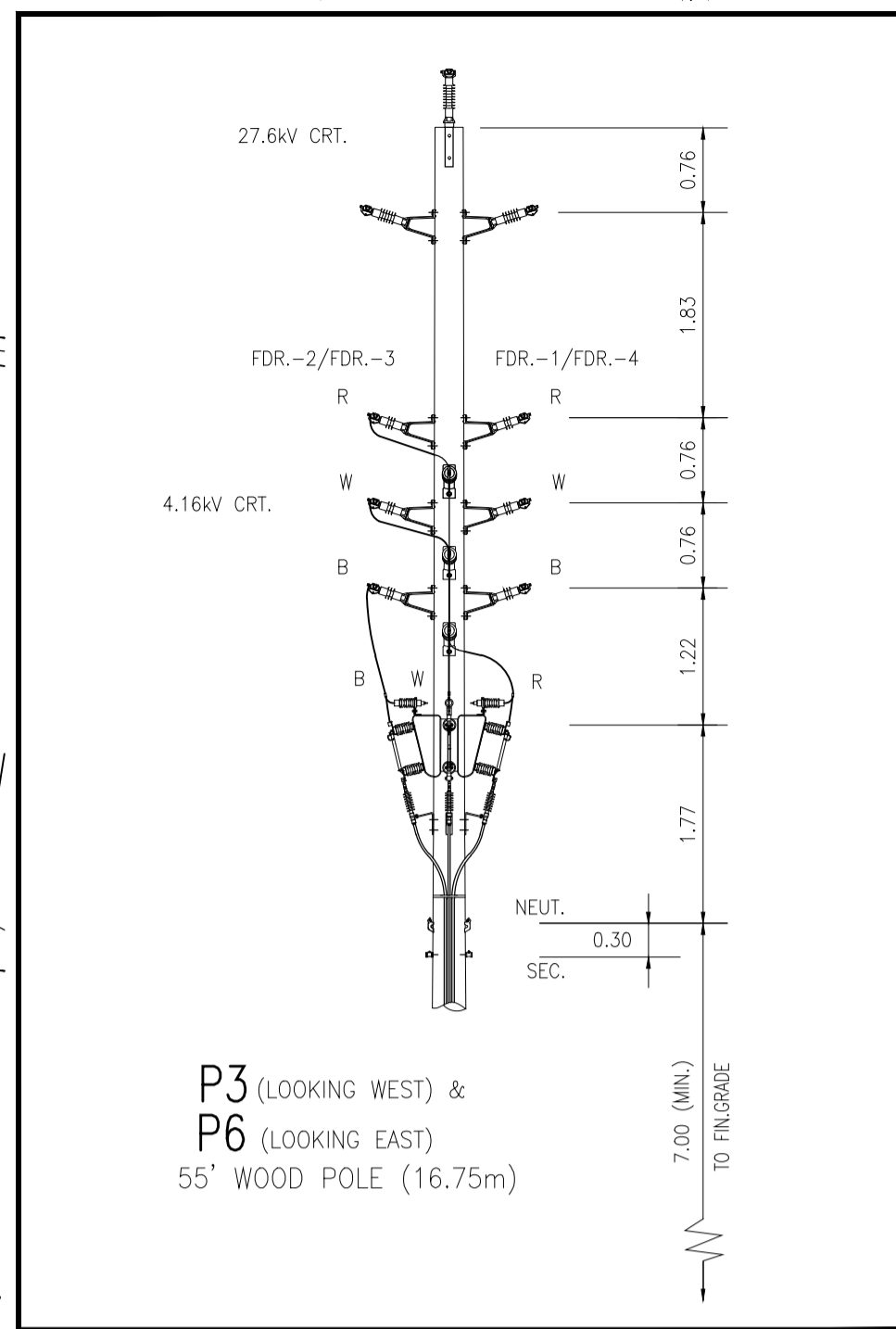
TYPE OF SERVICE: RES U/G 200A 400A
COND. SIZE & TYPE: 3/0 AL. TRIPLEX
VOLTAGE: 120/240V, 1 PH, 3 WIRE
CONDUIT: 50mm HDPE 100mm PVCII
BACKFILL: NATIVE SAND & CAUTION TAPE
TX LOC #: 672
SUB. PAGE #: _____
FILE NO. 13-253
JOB NO. Q60257/Q60310
INSTALLED BY: HYDRO CUSTOMER
INSTALL DATE: MAY 12th, 2014
INSPECTOR: STM

AS-BUILT

NOTES: _____



**SERVICE LOCATION
 REPORT**
**1227 Lakeshore
 Road West**



LEGEND

- EXISTING UNDERGROUND DUCT STRUCTURE.
- PROPOSED NEW UNDERGROUND DUCT STRUCTURE.
- NUMBER OF 100mm ϕ PVC DUCTS ENCASED IN STEEL REINFORCED CONCRETE.
- NUMBER OF 50mm ϕ RIGID CONDUITS ENCASED IN CONCRETE.
- NUMBER OF 100mm ϕ PVC DIRECT BURIED DUCT
- NEW 55' WOOD POLE.
- EXISTING POLE TO BE REMOVED.

NOTES

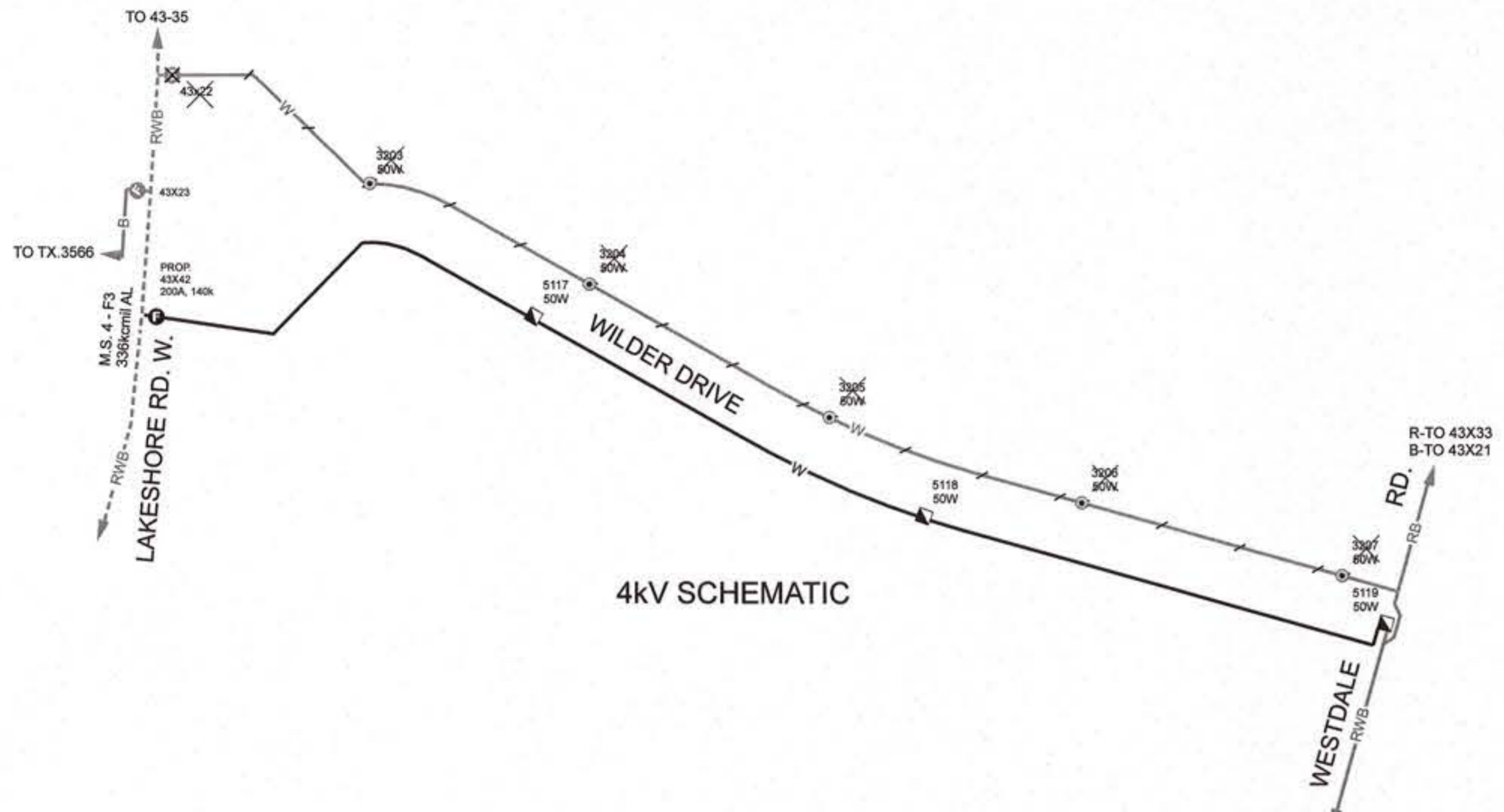
- LOCATE EXISTING UNDERGROUND CABLES AND CONDUITS IN THE COMPOUND BEFORE DIGGING.

FILE	06-043	W.O.	20245-1,2,3,4
B.C.		TENDER	
DATE	06 06 28	AS BUILT	ABS
DATE	06 04 07	REVISED PROP. DUCT BANK LOCATION UNDER THE DRIVEWAY	ABS
DATE	06 04 04	REVISED LOCATION OF NEW P1 & P6.	ABS
DATE		REVISIONS	BY
			CHKD

OAKVILLE HYDRO

MARGARET M.S.
REPLACE AND RETERMINATE
H.V. AND L.V. CIRCUITS
313 LAKESHORE ROAD WEST

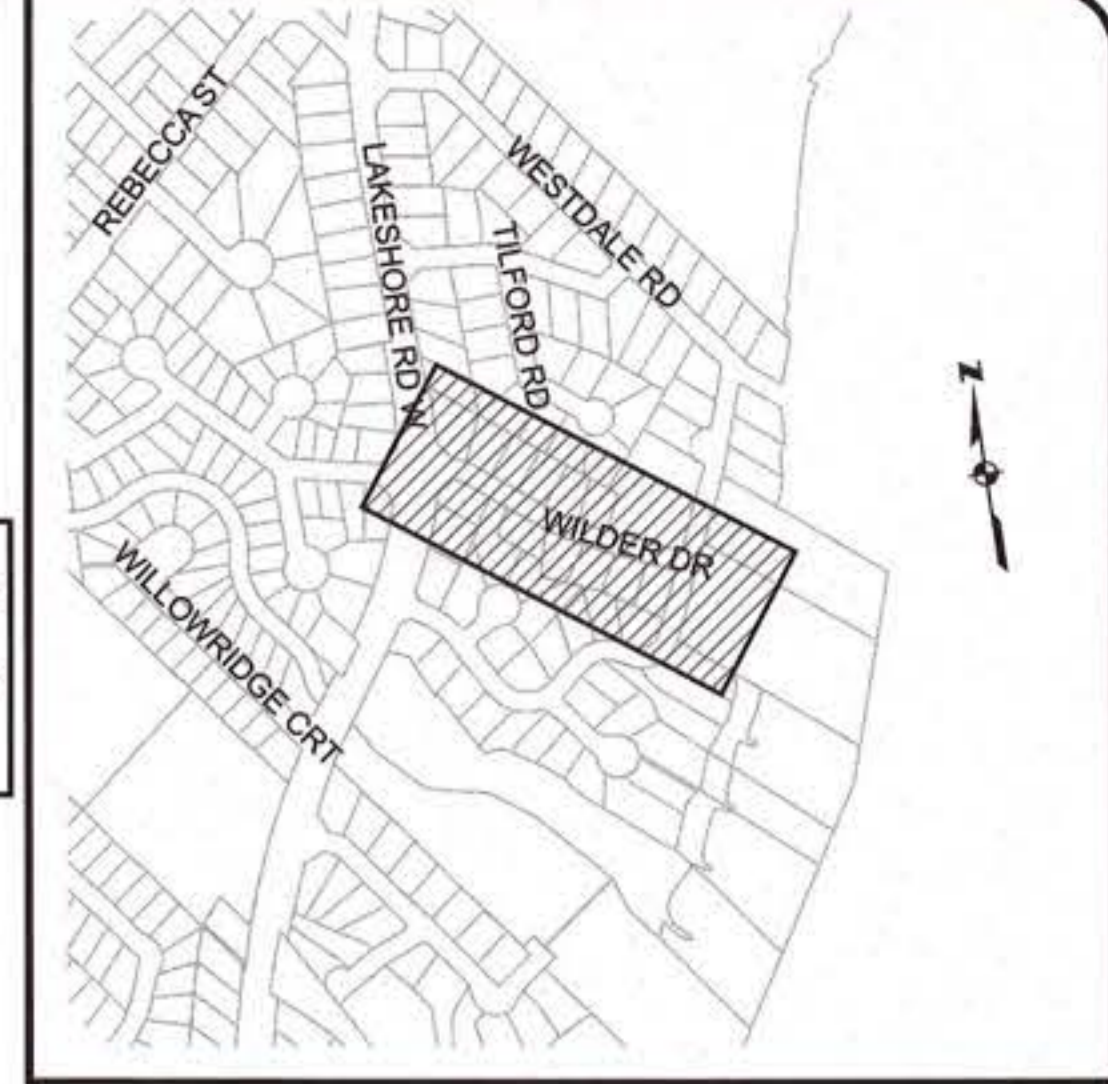
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DRAWING NO. UH-1943B



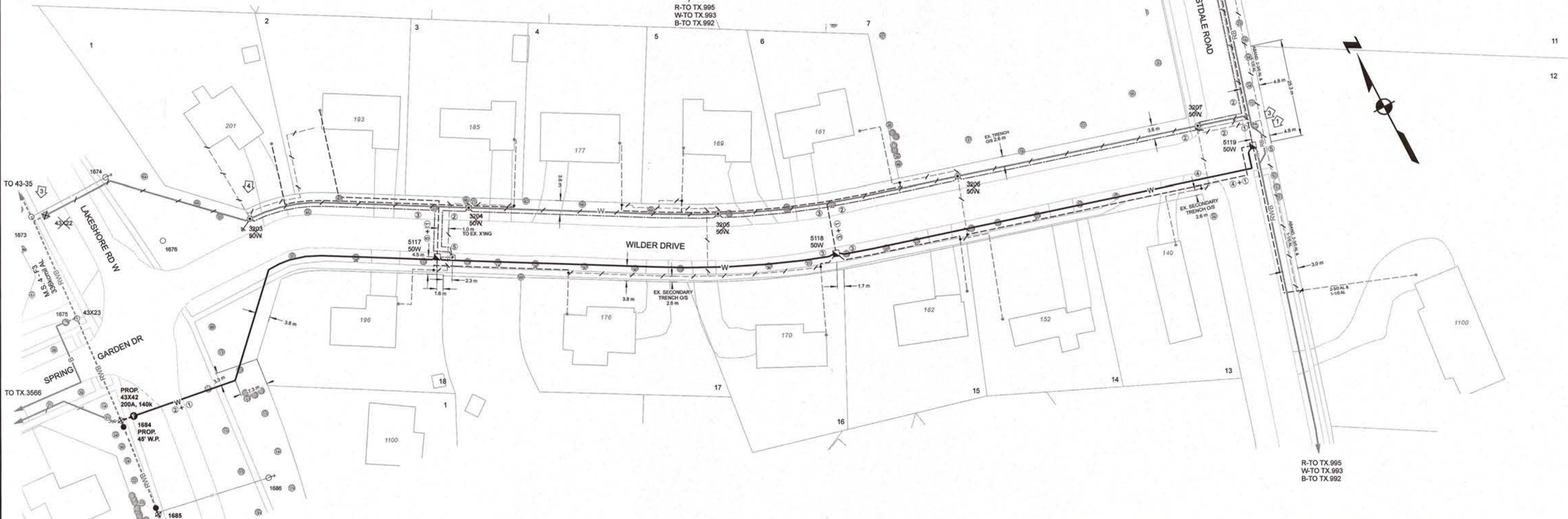
4kV SCHEMATIC

- OVERHEAD NOTES**
1. ALL GUYING PER 1-400 SECTION STANDARDS.
 2. ALL TRANSFORMER CONNECTIONS PER 1-500 SECTION STANDARDS.
 3. ALL DIPS PER 1-600 SECTION STANDARDS.
 4. ALL GROUNDING PER 1-900 SECTION STANDARDS.
 5. ALL SECONDARY CONNECTIONS PER 1-600 SECTION STANDARDS.
 6. ALL SECONDARY ATTACHMENTS PER 1-300 TO 1-305 STANDARDS.
- UNDERGROUND NOTES**
1. CONTRACTOR TO DIRECTIONAL BORE AND INSTALL 50mm/100mm HDPE CONDUIT C/W PRIMARY AND SECONDARY CABLES WITH MINIMUM DIRECTIONAL BORE DEPTH OF 0.9m AND IN ACCORDANCE WITH STANDING INSTRUCTION EO-SI-03-363. ENSURE 1 SPARE DUCT IS PLACED AT EACH ROAD CROSSING.
 2. PROPOSED TRENCH OFFSETS TO BE 3.8m FROM PROPERTY LINE TO CENTRE LINE OF TRENCH, UNLESS OTHERWISE NOTED.
 3. 1-50mm HDPE SPARE DUCT TO BE INSTALLED ALONG SIDE OF EVERY PRIMARY CIRCUIT AND ONE EXTRA SPARE DUCT IS PLACED AT EACH CROSSING.
 4. ALL EXPOSED TRENCHES AND ROAD CROSSINGS TO BE INFILLED AS PER OAKVILLE HYDRO STANDARD DRAWINGS HS-200 & HS-201.
 5. ALL SECONDARY SPLICE LOCATIONS LOCATED ON THE PRIVATE PROPERTY TO BE 1.0m BACK FROM PROPERTY LINE (ENSURE OFFSETS FROM PROPERTY LINE AND STREETLINE ARE RECORDED FOR EACH SPLICE LOCATION).
 6. CONTRACTOR TO EXERCISE CAUTION TO PREVENT DAMAGE TO ALL EXISTING TREES AND LANDSCAPING DURING CONSTRUCTION.
 7. CONTRACTOR TO LOCATE ALL UTILITIES ACCURATELY IN THE FIELD BEFORE ANY EXCAVATING.
 8. CONTRACTOR SHALL HAND DIG AROUND ALL EXISTING ENERGIZED HYDRO CABLES.
 9. ALL PRIMARY UNDERGROUND CABLES THAT ARE ABANDONED SHALL BE EFFECTIVELY GROUND.
 10. AVOID TRENCHING CLOSE TO OR UNDER DRIVEWAYS WHEREVER POSSIBLE.
 11. LOCATIONS ARE SHOWN ARE APPROXIMATE. ACCURACY IS WITHIN +/- 0.5m.
 12. ALL TREE TRUNK SIZES ARE IN CM.
 13. ISOLATE/DE-ENERGIZE PRIMARY CABLES WHILE DRILLING ALONG SIDE.

- CAUTION: EXISTING CABLES ENERGIZED**
- CONSTRUCTION NOTES**
- EXCAVATE 6m @ EAST SIDE OF TX.5119. CUT THE EXISTING W0 CABLE, PULL BACK, FISH THROUGH PADMOUNT FOUNDATION, AND CONNECT TO TX.5119.
 - INSTALL SPACER BRACKET AT HEIGHT OF 10.25m & FRAME POLE TOP (STD 1-201) FOR FUTURE SPACER CONVERSION
 - EXISTING W0 PRIMARY CABLE TO BE ABANDONED AND EFFECTIVELY GROUND IF NOT IN DUCT. OTHERWISE, PULLED OUT AND SCRAPPED
 - AT HOUSE #201 DUCT/SEC. CABLE INSTALLATION WILL BE IN ACCORDANCE WITH JOB #31153
- APPLICABLE DESIGN STANDARDS**
- INSTALLATION OF THE ELECTRICAL DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE FOLLOWING OAKVILLE HYDRO STANDARDS:
- | INSTALLATION TYPE | APPLICABLE STANDARD DRAWINGS |
|-----------------------------------|--------------------------------|
| DISTRIBUTION TRENCH | HS-200, HS-201 |
| SINGLE PHASE PADMOUNT TRANSFORMER | HS-205, HS-206, HS-506, HS-309 |
| EXTERIOR GROUNDING | HS-309 |
| PRECAST FOUNDATION | HS-506 |



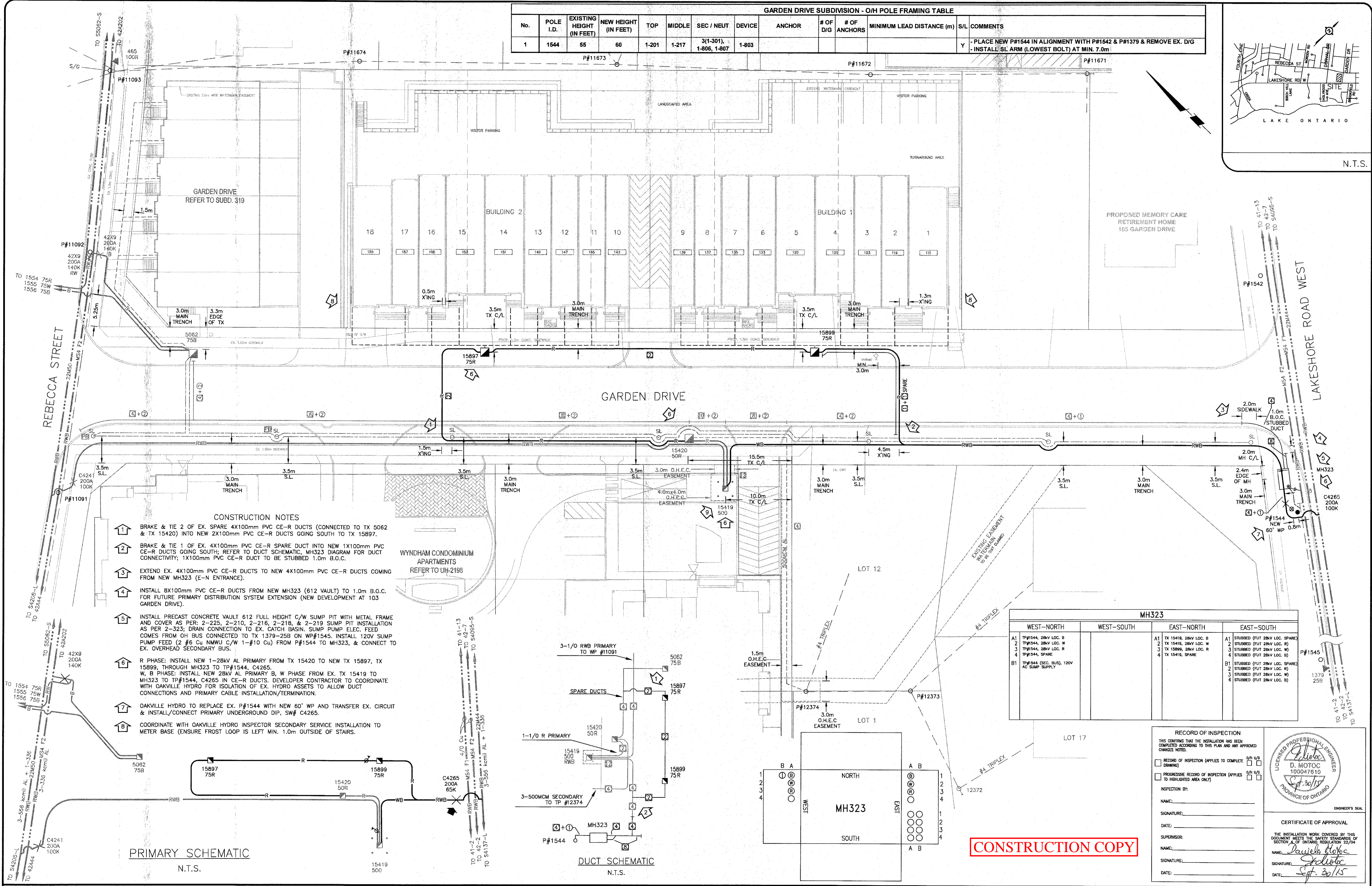
KEY PLAN



GARDEN DRIVE SUBDIVISION - O/H POLE FRAMING TABLE													
No.	POLE I.D.	EXISTING HEIGHT (IN FEET)	NEW HEIGHT (IN FEET)	TOP	MIDDLE	SEC / NEUT	DEVICE	ANCHOR	# OF D/G	# OF ANCHORS	MINIMUM LEAD DISTANCE (m)	S/L	COMMENTS
1	1544	55	60	1-201	1-217	3(1-301), 1-806, 1-807	1-803						Y - PLACE NEW P#1544 IN ALIGNMENT WITH P#1542 & P#1379 & REMOVE EX. D/G - INSTALL SL ARM (LOWEST BOLT) AT MIN. 7.0m

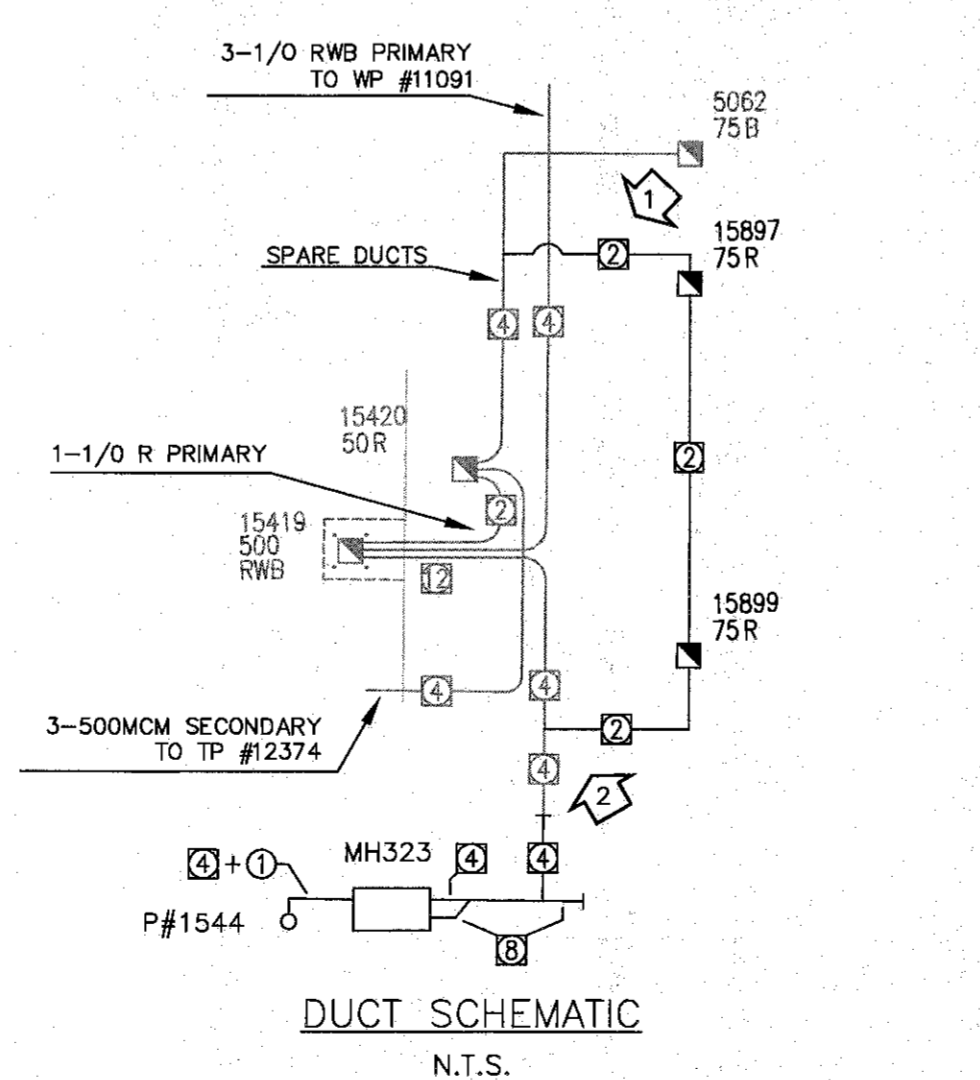


N.T.S.



- CONSTRUCTION NOTES**
- 1 BRAKE & TIE 2 OF EX. SPARE 4X100mm PVC CE-R DUCTS (CONNECTED TO TX 5062 & TX 15420) INTO NEW 2X100mm PVC CE-R DUCTS GOING SOUTH TO TX 15897.
 - 2 BRAKE & TIE 1 OF EX. 4X100mm PVC CE-R SPARE DUCT INTO NEW 1X100mm PVC CE-R DUCTS GOING SOUTH; REFER TO DUCT SCHEMATIC, MH323 DIAGRAM FOR DUCT CONNECTIVITY; 1X100mm PVC CE-R DUCT TO BE STUBBED 1.0m B.O.C.
 - 3 EXTEND EX. 4X100mm PVC CE-R DUCTS TO NEW 4X100mm PVC CE-R DUCTS COMING FROM NEW MH323 (E-N ENTRANCE).
 - 4 INSTALL 8X100mm PVC CE-R DUCTS FROM NEW MH323 (612 VAULT) TO 1.0m B.O.C. FOR FUTURE PRIMARY DISTRIBUTION SYSTEM EXTENSION (NEW DEVELOPMENT AT 103 GARDEN DRIVE).
 - 5 INSTALL PRECAST CONCRETE VAULT 612 FULL HEIGHT C/W SUMP PIT WITH METAL FRAME AND COVER AS PER: 2-225, 2-210, 2-216, 2-218, & 2-219 SUMP PIT INSTALLATION AS PER 2-323; DRAIN CONNECTION TO EX. CATCH BASIN. SUMP PUMP ELEC. FEED COMES FROM OH BUS CONNECTED TO TX 1379-25B ON WP#1545. INSTALL 120V SUMP PUMP FEED (2 #6 Cu NMWU C/W 1-#10 Cu) FROM P#1544 TO MH323, & CONNECT TO EX. OVERHEAD SECONDARY BUS.
 - 6 R PHASE: INSTALL NEW 1-28kV AL PRIMARY FROM TX 15420 TO NEW TX 15897, TX 15899, THROUGH MH323 TO TP#1544, C4265. W. B PHASE: INSTALL NEW 28kV AL PRIMARY B. W PHASE FROM EX. TX 15419 TO MH323 TO TP#1544, C4265 IN CE-R DUCTS. DEVELOPER CONTRACTOR TO COORDINATE WITH OAKVILLE HYDRO FOR ISOLATION OF EX. HYDRO ASSETS TO ALLOW DUCT CONNECTIONS AND PRIMARY CABLE INSTALLATION/TERMINATION.
 - 7 OAKVILLE HYDRO TO REPLACE EX. P#1544 WITH NEW 60' WP AND TRANSFER EX. CIRCUIT & INSTALL/CONNECT PRIMARY UNDERGROUND DIP, SW# C4265.
 - 8 COORDINATE WITH OAKVILLE HYDRO INSPECTOR SECONDARY SERVICE INSTALLATION TO METER BASE (ENSURE FROST LOOP IS LEFT MIN. 1.0m OUTSIDE OF STAIRS).

PRIMARY SCHEMATIC
N.T.S.



DUCT SCHEMATIC
N.T.S.

MH323			
WEST-NORTH	WEST-SOUTH	EAST-NORTH	EAST-SOUTH
A1 TP#1544, 28kV LOC. B		A1 TX 15419, 28kV LOC. B	A1 STUBBED (FUT 28kV LOC. SPARE)
2 TP#1544, 28kV LOC. W		2 TX 15419, 28kV LOC. W	2 STUBBED (FUT 28kV LOC. W)
3 TP#1544, 28kV LOC. R		3 TX 15899, 28kV LOC. R	3 STUBBED (FUT 28kV LOC. R)
4 TP#1544, SPARE		4 TX 15419, SPARE	4 STUBBED (FUT 28kV LOC. B)
B1 TP#1544 (SEC. BUS), 120V AC SUMP SUPPLY			B1 STUBBED (FUT 28kV LOC. SPARE)
			2 STUBBED (FUT 28kV LOC. W)
			3 STUBBED (FUT 28kV LOC. W)
			4 STUBBED (FUT 28kV LOC. B)

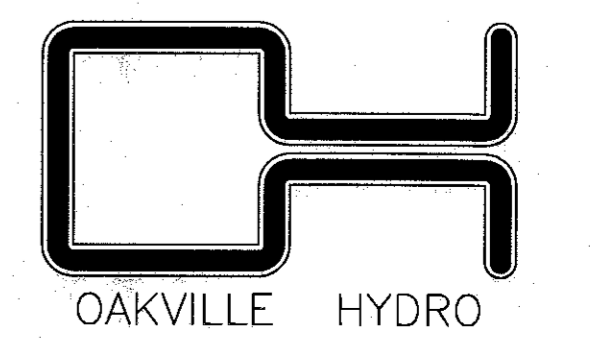
LEGEND

—	EXISTING OVERHEAD PRIMARY CABLE, SIZE AND PHASE AS NOTED	—	EXISTING 100mm PVC CONCRETE ENCASED DUCTS
—	EXISTING 3-1/0 AL 28kV TR-XLPE ENCAPSULATED PRIMARY CABLE AND PHASE PRIMARY CIRCUIT IN CONTINUOUS 100 x2 OR x4 CER 100mm PVC TYPE 2 DUCT	—	PROPOSED 100mm PVC CONCRETE ENCASED DUCTS
—	PROPOSED 3-1/0 AL 28kV TR-XLPE ENCAPSULATED PRIMARY CABLE AND PHASE PRIMARY CIRCUIT IN CONTINUOUS 100 x2 OR x4 CER 100mm PVC TYPE 2 DUCT	—	EXISTING 50mm PVC DUCTS
—	EXISTING 3/0 OVERHEAD TRIPLEX SECONDARY CABLE UNLESS OTHERWISE NOTED	—	DOWN GUY
—	EXISTING 3/0 AL 600V XLPE PVCJ USE80 SECONDARY CABLE IN 100x2 CER 100mm PVC TYPE 2 DUCT	—	IN POLE 15 AMP S/L CIRCUIT BREAKER
—	PROPOSED 3/0 AL 600V XLPE PVCJ USE80 SECONDARY CABLE IN DB 100mm PVC TYPE 2 DUCT	—	FULL-HEIGHT 612 C/W MANHOLE FRAME, COVER, SUMP PUMP & DRAIN
—	EXISTING 2 #6 Cu NMWU C/W 1-#10 Cu. STREETLIGHT CABLE IN DB 50mm PVC TYPE 2 DUCT.	—	
—	PROPOSED 2 #6 Cu NMWU C/W 1-#10 Cu. STREETLIGHT CABLE IN DB 50mm PVC TYPE 2 DUCT, SUMP PUMP FEED	—	
—	EXISTING SPAN GUY	—	

REVISIONS

NO.	DESCRIPTION	DATE

FILE S-15-469 W.O. Q60921
 CONTRACTOR: ASSUMED
 DRAWN L. LANE DATE 2015 04 28
 CHK'D: [Signature] DATE: [Signature]
 DESIGN BY: [Signature] C.E.T.
 DIRECTOR OF ENGINEERING & CONSTRUCTION: [Signature]



THE WAVE- 113 - 131
GARDEN DRIVE

SCALE 1:250 DRAWING NO. UH-2305

CONSTRUCTION COPY

RECORD OF INSPECTION

THIS CONFIRMS THAT THE INSTALLATION HAS BEEN COMPLETED ACCORDING TO THIS PLAN AND ANY APPROVED CHANGES NOTED.

RECORD OF INSPECTION (APPLIES TO COMPLETE DRAWING) 9/14/15

PROGRESSIVE RECORD OF INSPECTION (APPLIES TO HIGHLIGHTED AREA ONLY) 9/14/15

INSPECTION BY: _____

NAME: _____

SIGNATURE: _____

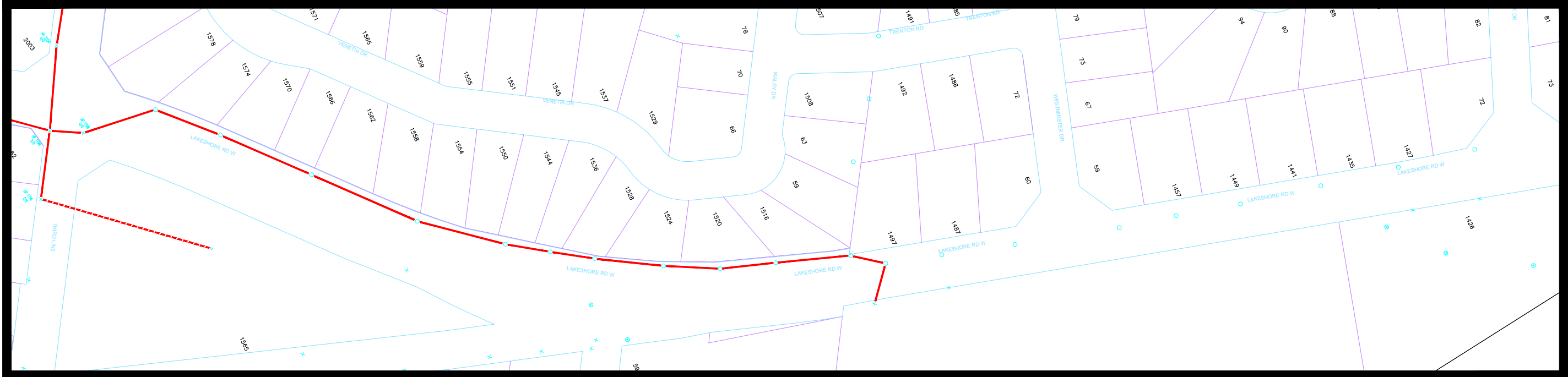
DATE: _____

CERTIFICATE OF APPROVAL

THE INSTALLATION WORK COVERED BY THIS DOCUMENT MEETS THE SAFETY STANDARDS OF SECTION 4. OF ONTARIO, REGULATION 22/04

NAME: Daniela Dube
 SIGNATURE: [Signature]
 DATE: Sept 30/15

PROFESSIONAL ENGINEER
 D. MOTOC
 100047810
 PROVINCE OF ONTARIO

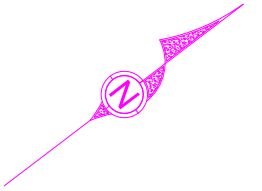


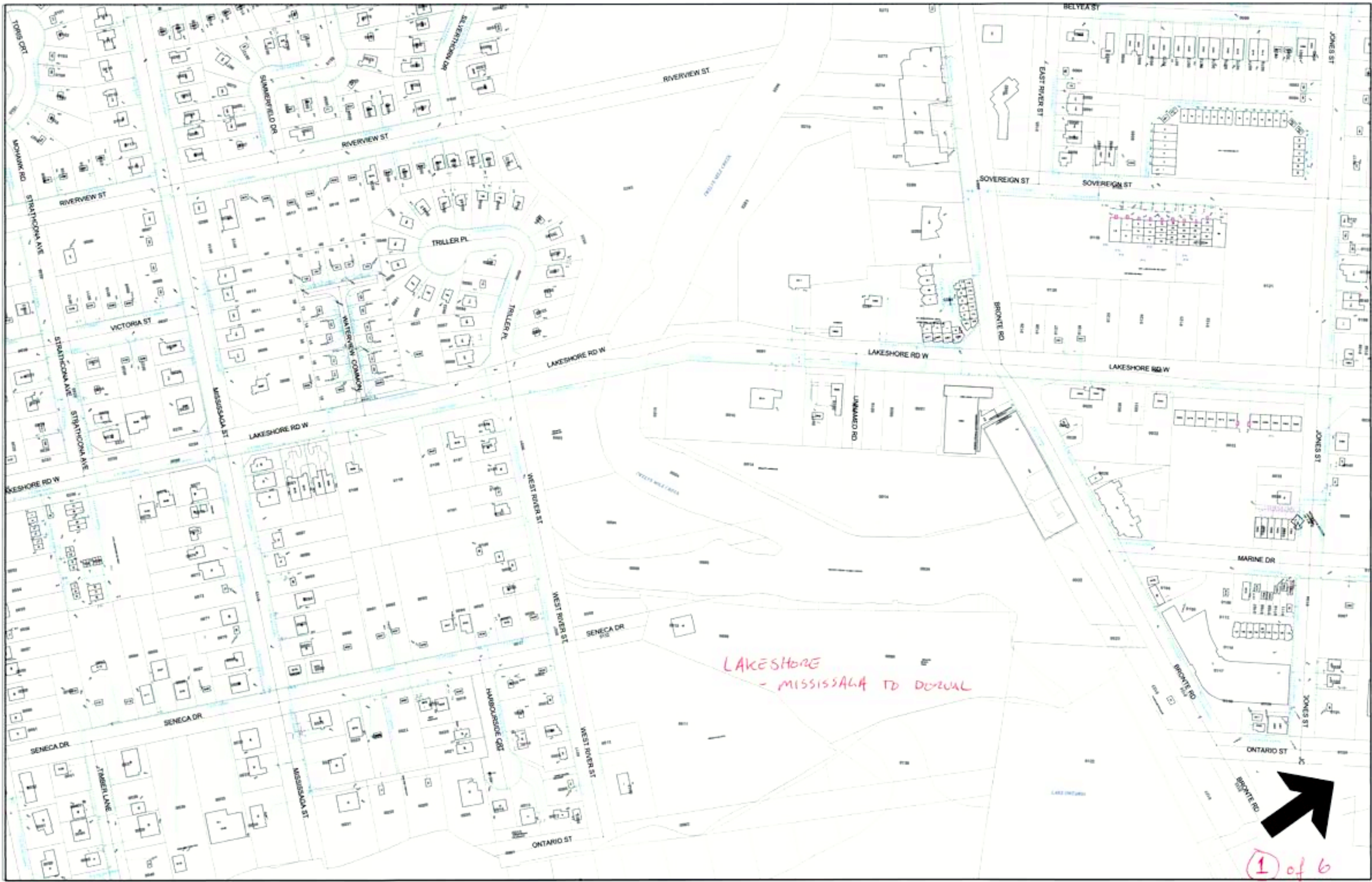
ROGERS COMMUNICATIONS CANADA INC.

- CAUTION BURIED COAXIAL TV PLANT
- CAUTION BURIED FIBER TV PLANT
- CAUTION AERIAL COAXIAL TV PLANT
- CAUTION AERIAL FIBER TV PLANT

— — — — — EMPTY CONDUIT

NOTE:
PLANT IS TO APPROXIMATION
PLANT NOT TO SCALE

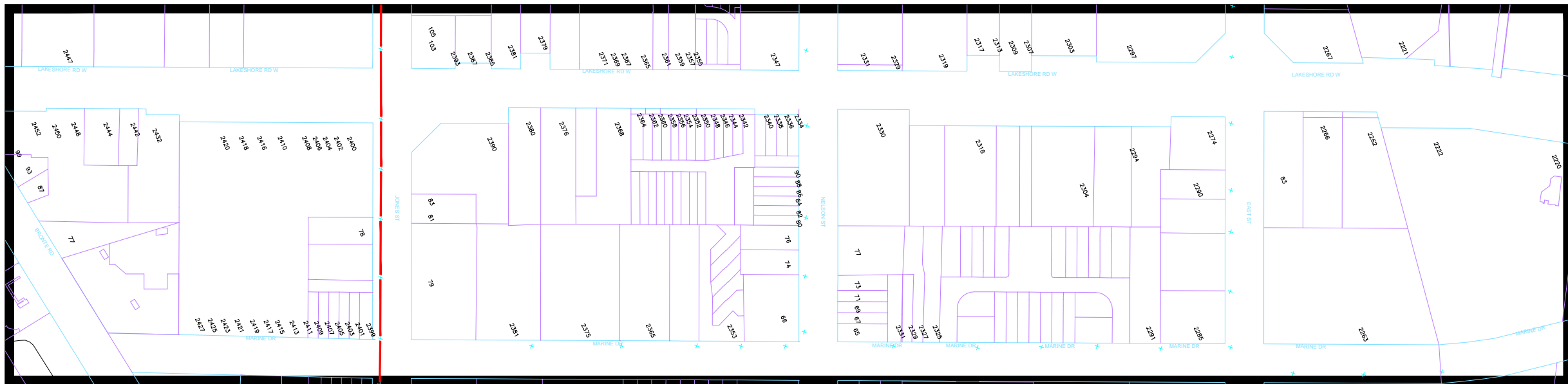




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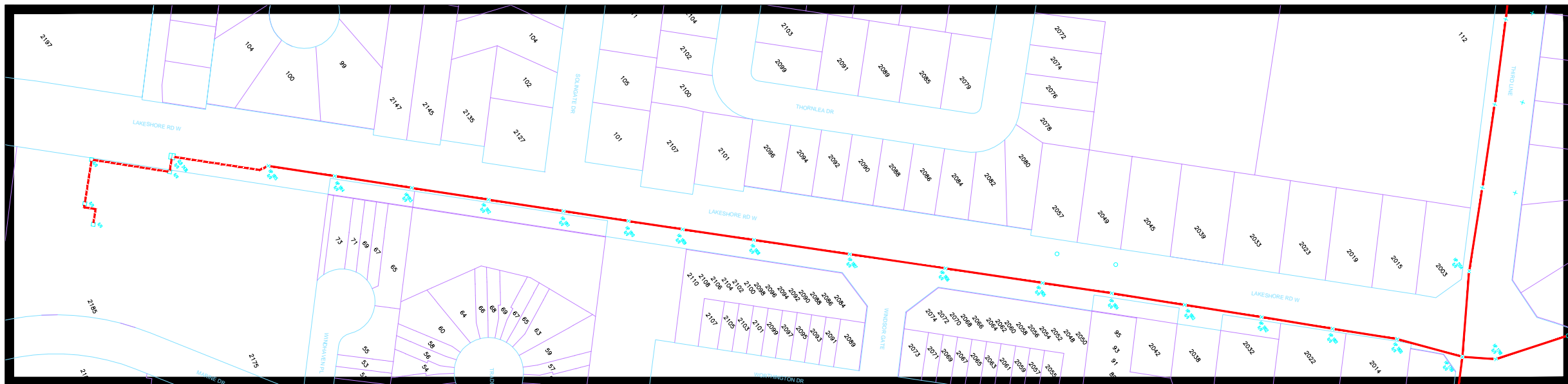


MATCH LINE A-A

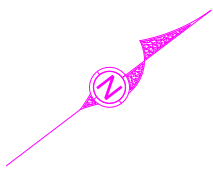


MATCH LINE A-A

MATCH LINE B-B



MATCH LINE B-B



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NOTE:
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Markup Response Form

Application Date February 27, 2017 **Applicant:** Amec Foster Wheeler
Date Returned: March 16, 2017
Rogers Ref. No.: M170747 **Applicant Job No.:** LakeshoreRdW
Location: Lakeshore Rd W

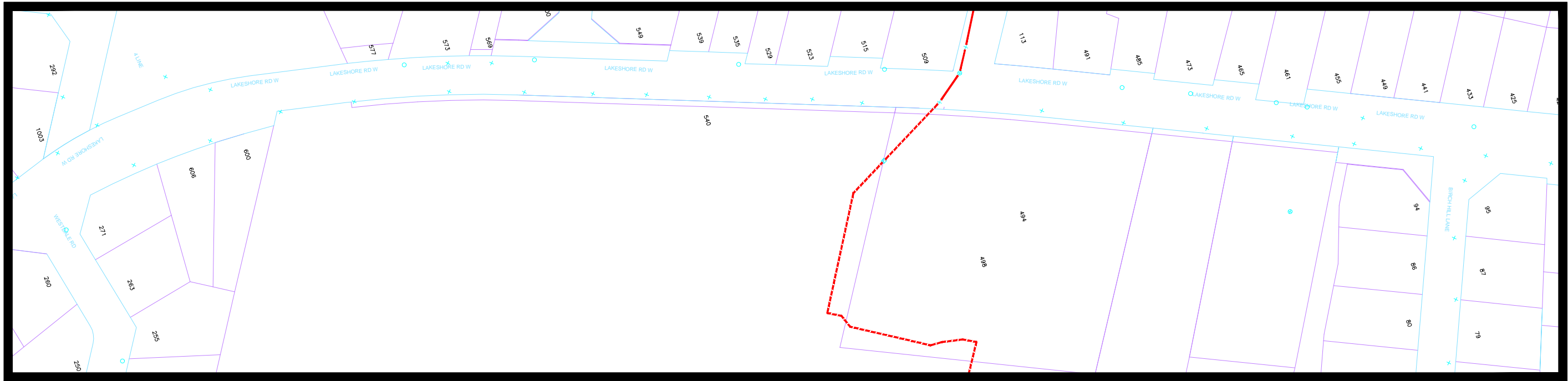
Rogers Communications has reviewed your drawing(s) as requested and returns one marked-up copy. Our comments follow below with an "X" indicating Rogers' stance on your proposed plan.

Comments:

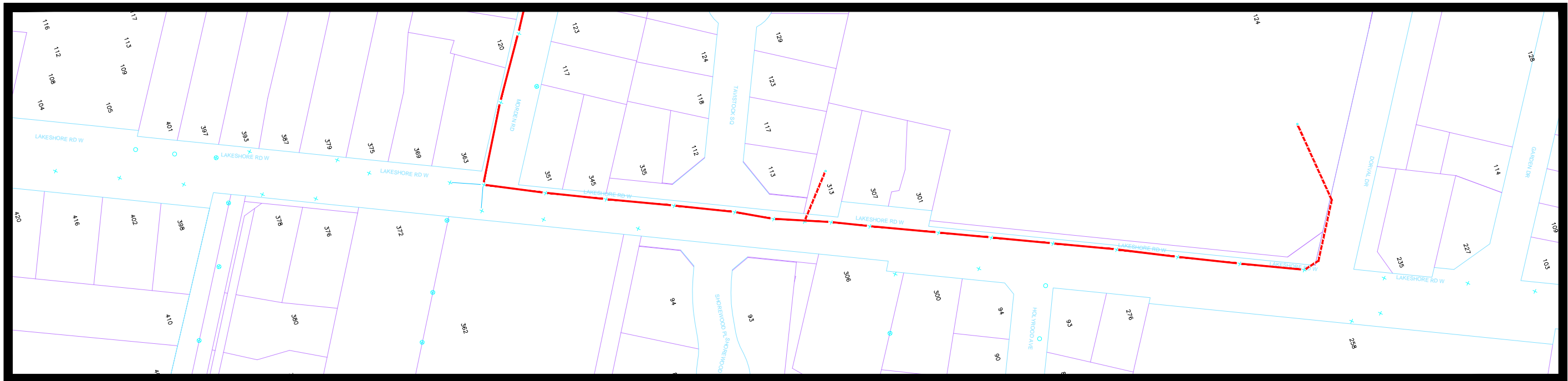
- No Conflict** Rogers Communications currently does not possess existing plant in the area indicated on your attached plans.
- For Your Reference** Rogers Communications currently has existing plant as marked on your drawing. Our standard offset in this municipality is: **1.75m P/L on regional rds & 2.3m P/L on town rds.**
Please ensure you maintain clearances of 0.3 m vertically and 0.6m horizontally.
- EXTREME CAUTION** Use vactruck and expose ducts, maintain minimum of 0.6m clearance.
- CONFLICT** Your proposed construction appears to encroach within existing Rogers Communications plant.
Please relocate your proposed construction to allow adequate clearance of 0.3 m vertically and 1 m horizontally.
- CAUTION** Rogers Communications has aerial plant in this area, as it is indicated on the attached plans.
- CAUTION** Fiber Optic/Coaxial Cable is present in the area of your proposed construction.
- Note** Proposed Fiber Optic Cable in a joint use duct structure .
- Note** Plant currently under construction.
- Note** Please inform Rogers Communications well in advance of the proposed construction schedule in order to coordinate our plant relocation.
- Note** Locates are still required. Call for locates at 1-800-738-7893
- Note** Hand dig when crossing, or within 1.0m of existing Rogers plant.
- Note** Plant is to Approximation.

Monica LaPointe
Mark up Coordinator
905 361 4953

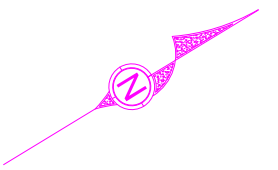
March 16, 2017
DATE



MATCH LINE A-A



MATCH LINE A-A



ROGERS COMMUNICATIONS CANADA INC.

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--- EMPTY CONDUIT

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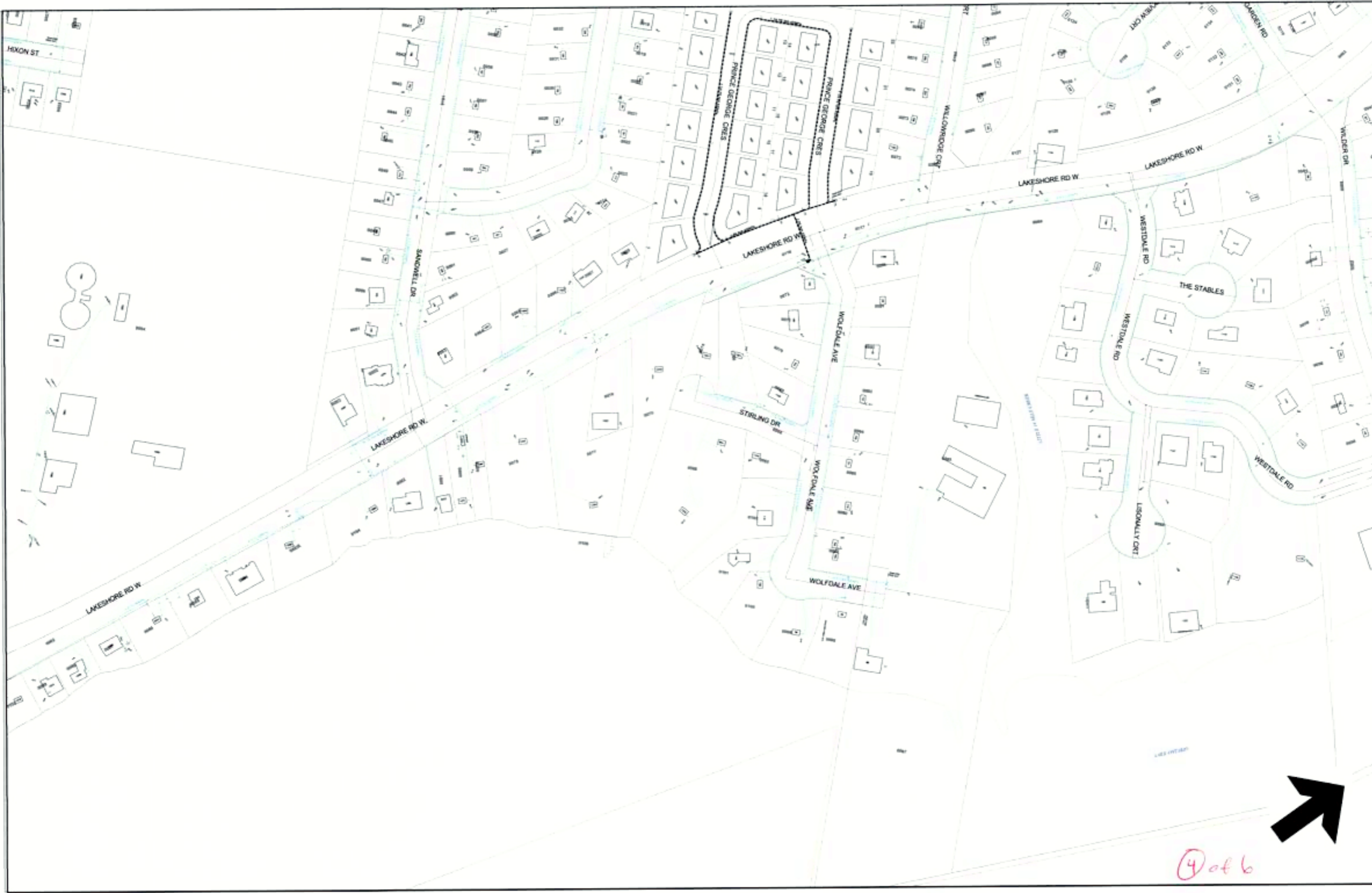
2 of 6



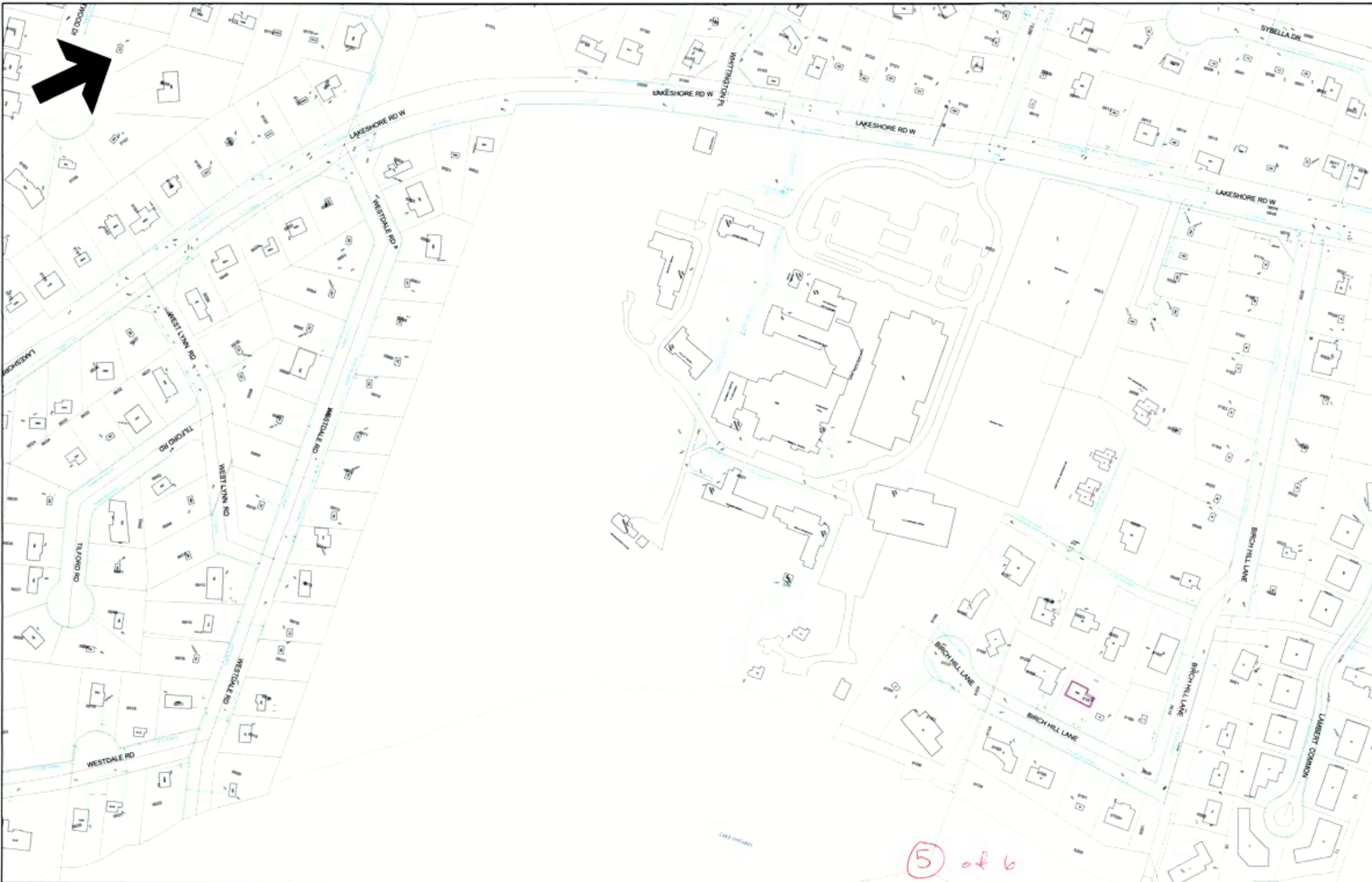


3 of 6





④ of 6



5 of 6



6 of 6

Minutes of Meeting

Date: April 17, 2019
File #: TPB166147
Meeting Date & Time: March 26, 2019 – 3:00 p.m.
Meeting at: Town of Oakville Town Hall, Engineering Boardroom
Subject: **Lakeshore Road West - Review Oakville Hydro Infrastructure**

Attendees:

Syed Rizvi, Town of Oakville	David Sinke, Wood
Daniela Motoc, Oakville Hydro	Neal Smith, Wood

MATTERS DISCUSSED

ACTION BY:

1. Brief Introductions

2. Overview of the Project

- Neal provided an overview of the project and explained that the purpose of the meeting was to discuss potential conflicts with Oakville Hydro plant as a result of planned improvements to the section of Lakeshore Road West from East Street to Dorval Drive.
- The project is currently in the preliminary design/Class EA phase. Detailed identification of conflicts and determination of any relocation requirements will not occur until the detailed design phase.

3. Review existing hydro infrastructure

- Daniela provided a brief overview of hydro plant and associated issues along the Lakeshore Road West corridor and explained that the current clearances to their line have been minimized in an effort to reduce tree trimming;
- Offsets are typically 3.5m from property line and roadway;
- Oakville Hydro is aware of Lakeshore Road West's scenic corridor designation and modifies their practices accordingly;
- To maintain proper clearances 45' poles would typically be required;
- Some existing poles are 35';
- Some poles are owned by Bell and Oakville Hydro attaches to their poles;
- Daniela noted that there is a maximum limit of 3 tenants on a pole;
- Indirect conflicts and direct conflicts between the proposed preliminary design and existing hydro plant were identified;

PLEASE NOTE: If there is any comment or amendment to be made to these meeting notes, they should be brought to the notice of Wood within five (5) business days of issue and confirmed in writing.

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Burlington, ON L7N 3W5
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www.woodplc.com

Wood Environment & Infrastructure Solutions
a Division of Wood Canada Limited
Registered office: 2020 Winston Park Drive, Suite 700, Oakville, Ontario L6H 6X7
Registered in Canada No. 773289-9; GST: 899879050 RT0008; DUNS: 25-362-6642



Continued...

Meeting Date: March 26, 2019

- Direct conflicts that would require the pole be moved. The potential of moving a pole needs to be assessed based on the distance and possible deflections;
- Guying may need to be revised to a strut if the guy conflicts with the sidewalk/multi-use pathway;
- Some Lakeshore Road West intersections have a hydro line running in the north / south direction;
- Trenchless installation of hydro conduit could have potential impacts on root systems;
- New stormwater infrastructure could impact hydro infrastructure;
- Clearance for poles adjacent to roadway is 1.5m from back of curb. With the on-road bicycle lane adjacent to the curb an offset of 0.5m from back of curb is acceptable;
- For underground hydro, hydro boxes would be required; these would require a 6'x12' easement;
- A roll plan with the base 2-lane design with sidewalk on the north side and multi-use pathway on the south side was reviewed. The existing hydro infrastructure was highlighted on the drawing;
- Daniela provided current drawings of hydro infrastructure;
- Using the roll plan drawings and Oakville Hydro plans, the team worked along the corridor highlighting conflict areas and making notes on the drawings of possible mitigation measures to eliminate the conflicts with hydro infrastructure. Potential issues and mitigation block by block are summarized as follows:

- **East Street to Third Line**

- South side hydro is underground to a vault at approx. 1+470
- Putting hydro underground may be an option at Third Line; if so it may need to be concrete encased with a minimum cover of 0.6m. Daniela to check into cost for installing hydro underground.
- Overhead line starts at 1+590. Conflicts from 1+590 to 2+050 to be eliminated at detailed design by making minor adjustments to the grading, reducing width of MUT or shifting the MUT to avoid pole conflict.
- Pole conflict at 1+750 can be mitigated by using a smaller curb radius at the intersection. Preliminary design drawing to be revised.
- Pole conflicts on the north side from 1+825 to 2+050 to be eliminated at detailed design by making minor adjustments to the grading or shifting the sidewalk to avoid pole conflict.
- Pole conflicts exist on both sides from 2+070 to 2+250. Possible mitigation includes:
 - Remove left turn lane
 - Go underground
 - Remove on-road bike lane, and transition to the boulevard with MUP
 - Move poles south, buy property maybe required

The above potential mitigation approaches will be noted on the preliminary design drawings and further investigated in detailed design.

Daniela

Continued...

Meeting Date: March 26, 2019

- **Third Line to Fourth Line**
 - Pole conflict on the south side at 2+700 to be eliminated at detailed design by making minor adjustments to the grading, reducing width of MUT or shifting the MUT to avoid the pole conflict.
 - Poles conflicts on the north side at 2+740 to 2+825, to be eliminated at detailed design by making minor adjustments to the grading or shifting the sidewalk to avoid the pole conflict.
 - Pole conflict on the south side at 3+230, to be eliminated at detailed design by making minor adjustments to the grading, reducing width of MUT or shifting the MUT to avoid the pole conflict.
 - Pole conflicts on the north side at 4+320 to 4+600, to be eliminated at detailed design by making minor adjustments to the grading or shifting the sidewalk to avoid the pole conflict.
 - Pole conflict on the south side at 4+530 to be eliminated at detailed design by making minor adjustments to the grading, reducing width of MUT or shifting the MUT to avoid the pole conflict.

- **Fourth Line to Dorval Drive**

The preliminary design presented shows a 3m wide MUP on the south side. Since the meeting, the option of maintaining the existing sidewalk on the south side has been considered and advanced as preferred. This would eliminate conflicts on the south side.

 - Pole conflict on the north side at 4+740 to be mitigated by removing the left turn lane and maintaining the existing intersection configuration.
 - Pole conflicts on the north side at 5+510 to 5+700 to be eliminated at detailed design by making minor adjustments to the grading or shifting the sidewalk to avoid pole conflict.
 - Pole conflicts on the northside at 6+090 to 6+170 to be mitigated by:
 - Shift roadway slightly to south by transitioning on-road bike lane to the boulevard on to MUP, or
 - Do nothing.

Meeting Minutes prepared by:

Wood Environment & Infrastructure Solutions
a Division of Wood Canada Limited



Per: Neal Smith, C.E.T.
Project Technologist

NS/kf