

# APPENDIX

# R STREETLIGHTING DESIGN

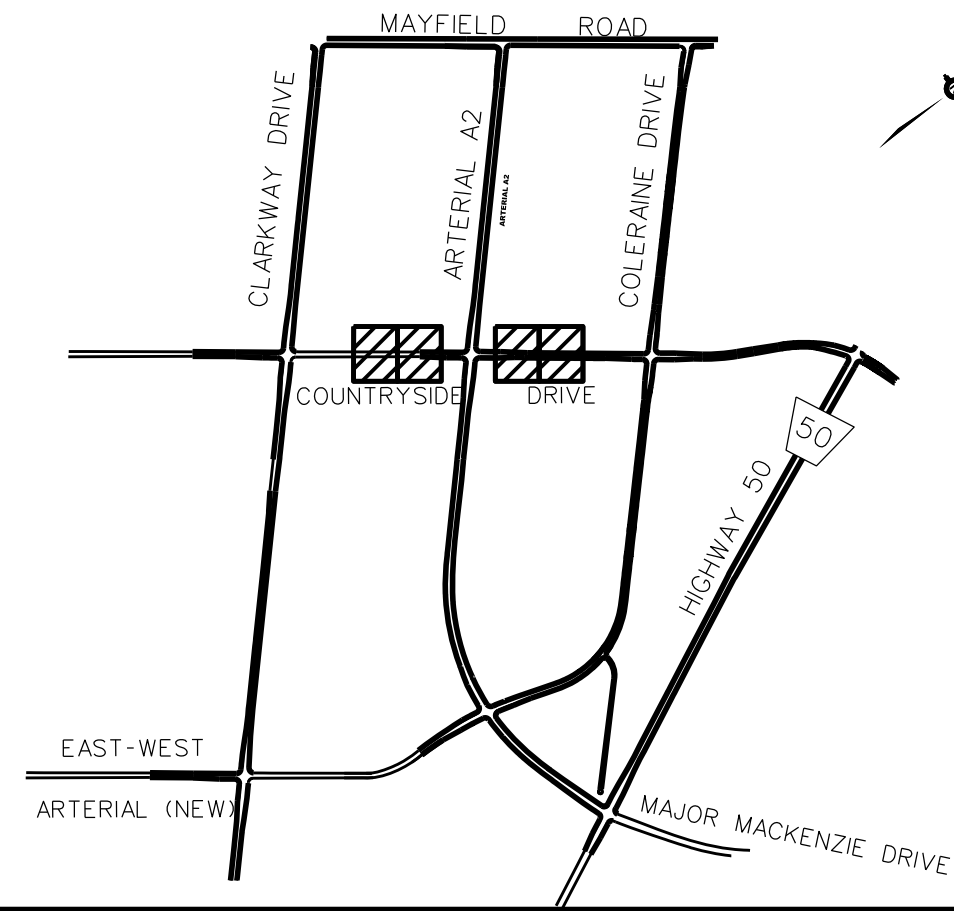
A large, white, chevron-shaped graphic element is positioned in the lower-left quadrant of the page. It consists of two parallel lines that meet at a point at the bottom, creating a wide, downward-pointing arrow shape.

## APPENDIX

***R-2***

***STREETLIGHTING  
DESIGN***

KEY MAP



STREETLIGHT SYMBOLS LEGEND

- POLES AND ELECTRICAL CHAMBERS**
- EXISTING CONCRETE POLE
  - NEW CONCRETE POLE
  - TEMPORARY WOOD POLE
  - EXISTING WOOD POLE
  - EXISTING CIRCULAR SPUN ALUMINUM POLE
  - NEW CIRCULAR SPUN ALUMINUM POLE
  - EXISTING STEEL POLE
  - EXISTING HANDWELL (300mm)
  - NEW HANDWELL (300mm)
  - EXISTING JUNCTION BOX (450mm)
  - NEW JUNCTION BOX (450mm)
  - EXISTING MANHOLE (600mm x 600mm)
- POLE EQUIPMENT AND CONNECTIONS**
- EXISTING LUMINAIRE ON BRACKET
  - NEW LUMINAIRE ON BRACKET
  - INDICATES REMOVAL
  - INDICATES ABANDON
  - IN-LINE FUSE
  - GROUND PLATE
  - BACKGUY
  - STREET LIGHT IDENTIFICATION TAG
- POWER CONNECTIONS**
- HYDRO ONE BRAMPTON TRANSFORMER WITH IDENTIFICATION NUMBER
  - EXISTING POLE-MOUNT TRANSFORMER
  - PROPOSED POLE-MOUNT TRANSFORMER
  - HYDRO-OWNED JUNCTION BOX
  - POLE-MOUNT DISCONNECT WITH STREET LIGHT IDENTIFICATION NUMBER
  - POWER PEDESTAL WITH STREET LIGHT IDENTIFICATION NUMBER
  - 50A IN-POLE BREAKER
  - DOUBLE 50A IN-POLE BREAKER
- DUCTS**
- EXISTING 50mm RIGID PVC DUCT
  - NEW 50mm RIGID PVC DUCT
  - EXISTING 100mm RIGID PVC DUCT
  - NEW 100mm RIGID PVC DUCT
  - EXISTING O/H SIL CABLE
  - NEW O/H SIL CABLE
- WIRING**
- EXISTING SIL CABLE
  - HYDRO CABLE UNDERGROUND
  - HYDRO CABLE AERIAL
  - DENOTES JUNCTION BOX OR HANDWELL ON WIRING DIAGRAM

GENERAL NOTES

THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES PRIOR TO AND DURING CONSTRUCTION. THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE OF THEM.

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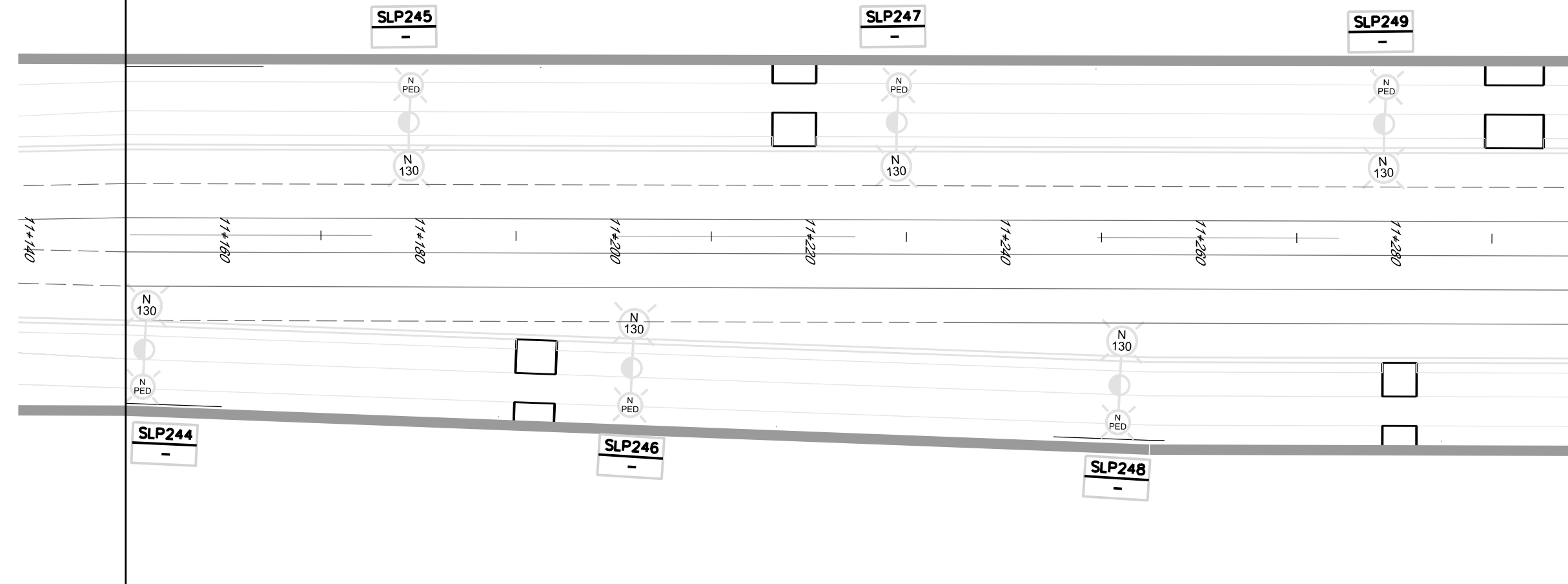
ALL WORK TO BE COORDINATED WITH CITY OF BRAMPTON REPRESENTATIVE.

NOTES

- POLE AND LUMINAIRE TO BE INSTALLED AS PART OF THE TRAFFIC SIGNAL INSTALLATION. SHOWN FOR REFERENCE ONLY.

LIMIT OF ELECTRICAL WORK  
STA. 11+150

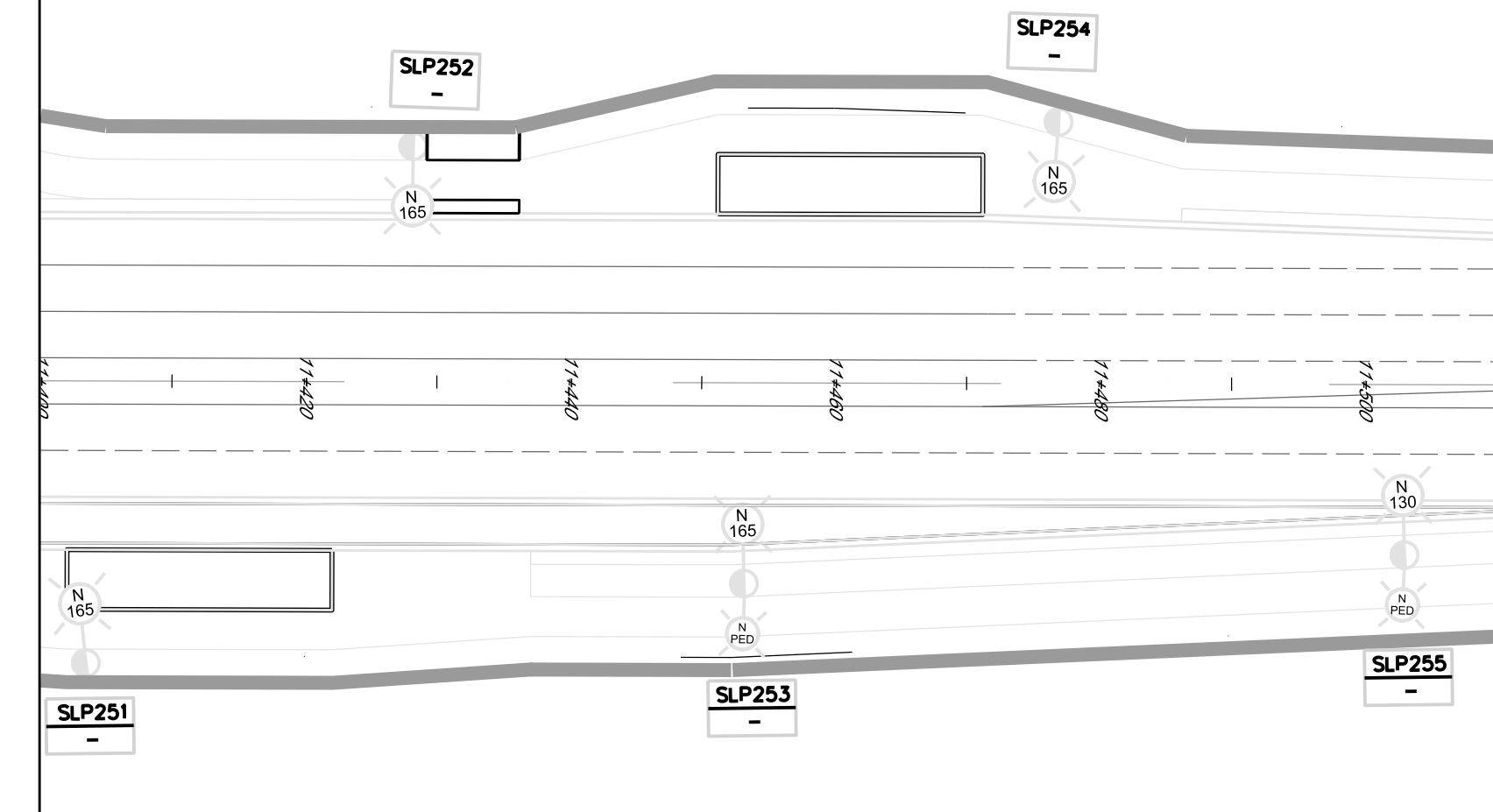
COUNTRYSIDE DRIVE



MATCHLINE STA. 11+300

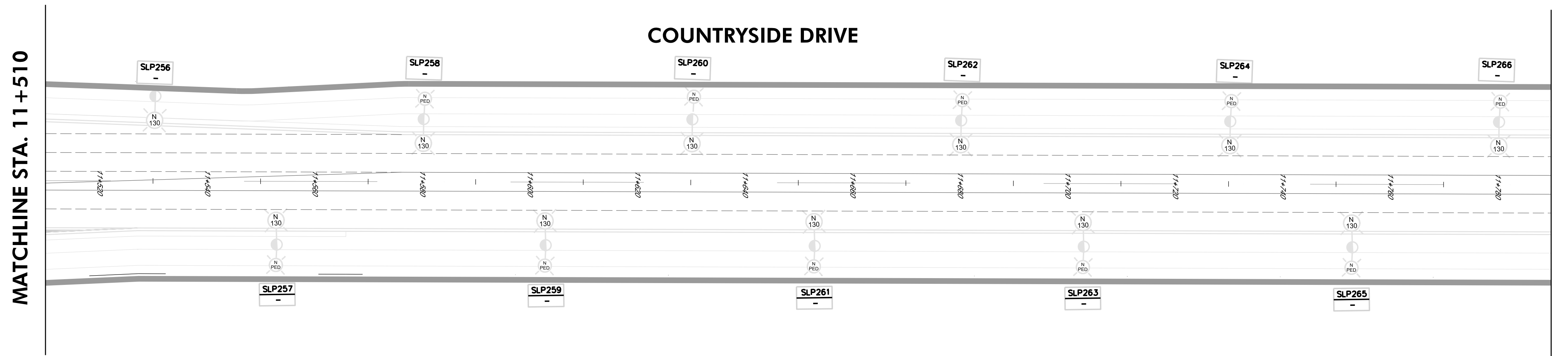
MATCHLINE STA. 11+400

COUNTRYSIDE DRIVE



MATCHLINE STA. 11+510

COUNTRYSIDE DRIVE



MATCHLINE STA. 11+510

MATCHLINE STA. 11+790

STREET LIGHT POLE DETAILS

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE TYPE / MATERIAL	HEIGHT	ARM & HEAD BRACKET	WATTAGE	GROUND ROD	IN-POLE BREAKER

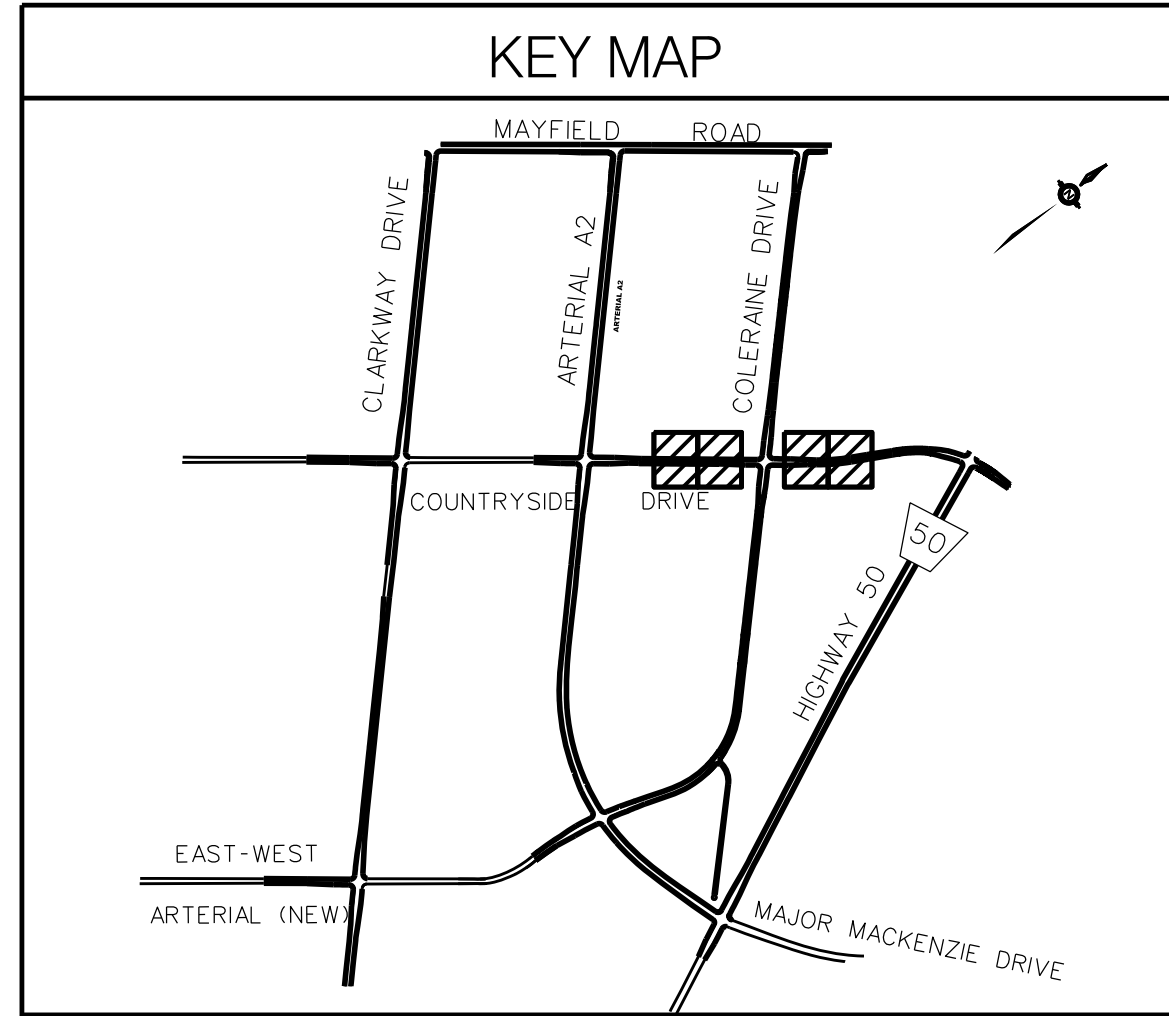
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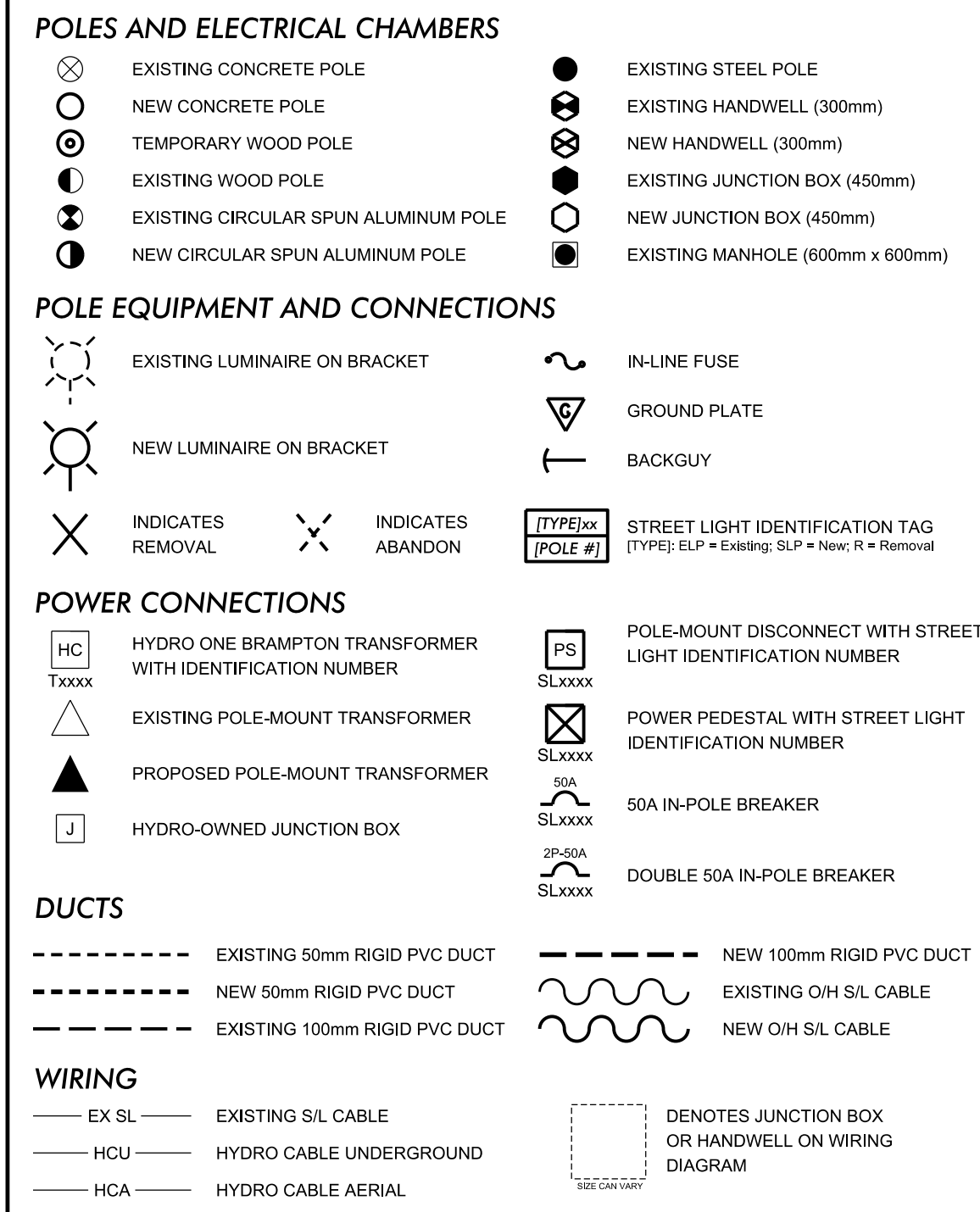
SCALE: 1 : 500  
 DESIGNED BY: M.M. CHECKED BY: M.M.  
 DATE: July 16, 2021  
 APPROVAL: \_\_\_\_\_  
 CONTRACT NO: 2013-012 APPROVAL DATE: \_\_\_\_\_



COUNTRYSIDE DRIVE  
 HIGHWAY 8 TO CLARKWAY DRIVE  
 PROPOSED STREET LIGHTING - LAYOUT XIII



**STREETLIGHT SYMBOLS LEGEND**



**GENERAL NOTES**

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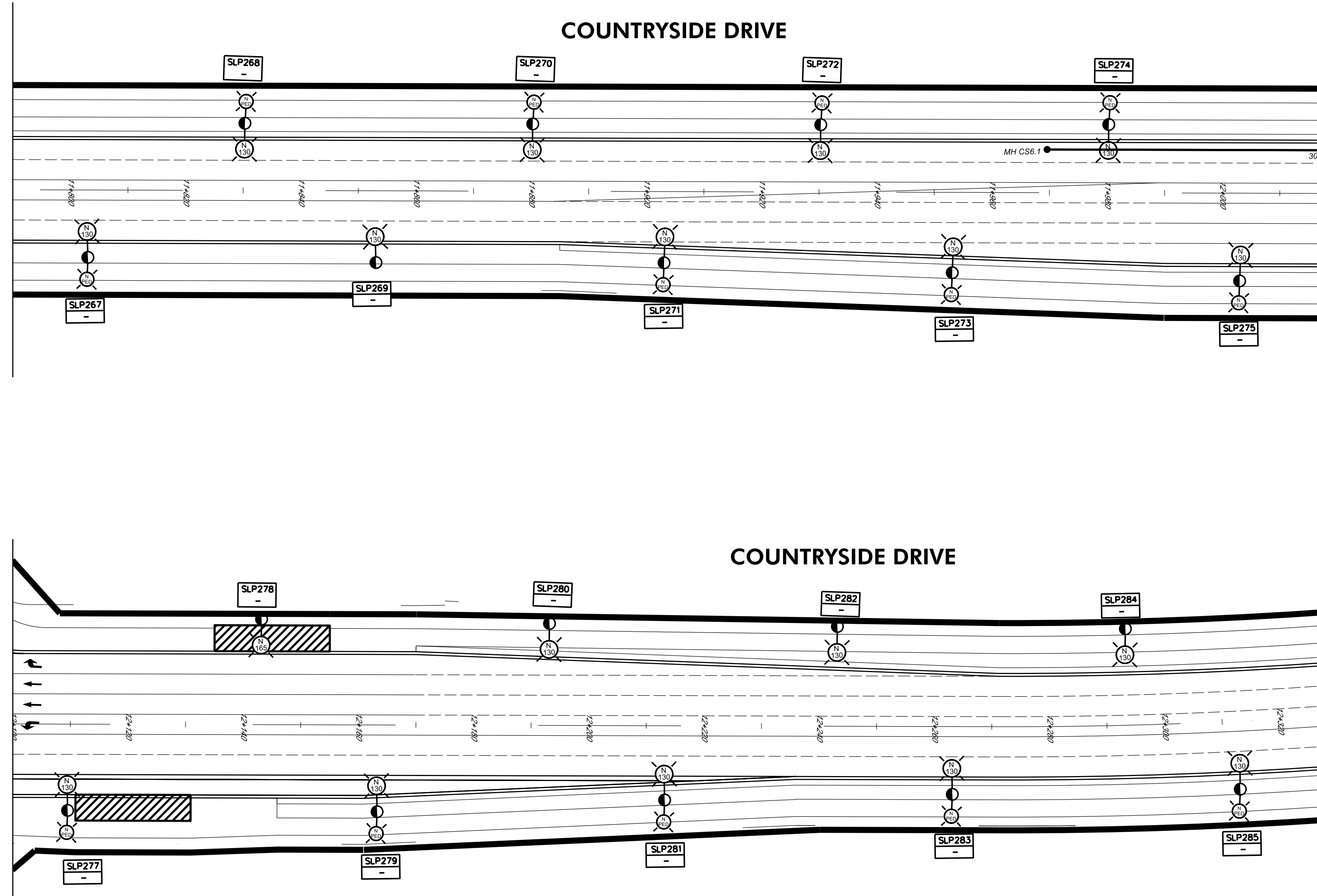
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**NOTES**

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MATCHLINE STA. 11+790

MATCHLINE STA. 12+100



MATCHLINE STA. 12+020

MATCHLINE STA. 12+390

**STREET LIGHT POLE DETAILS**

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE				ARM & HEAD				GROUND ROD	IN-POLE BREAKER	
				TYPE / MATERIAL	HEIGHT	BRACKET	WATTAGE	HEIGHT	BRACKET	WATTAGE				
				TRS-35 TAPERED										

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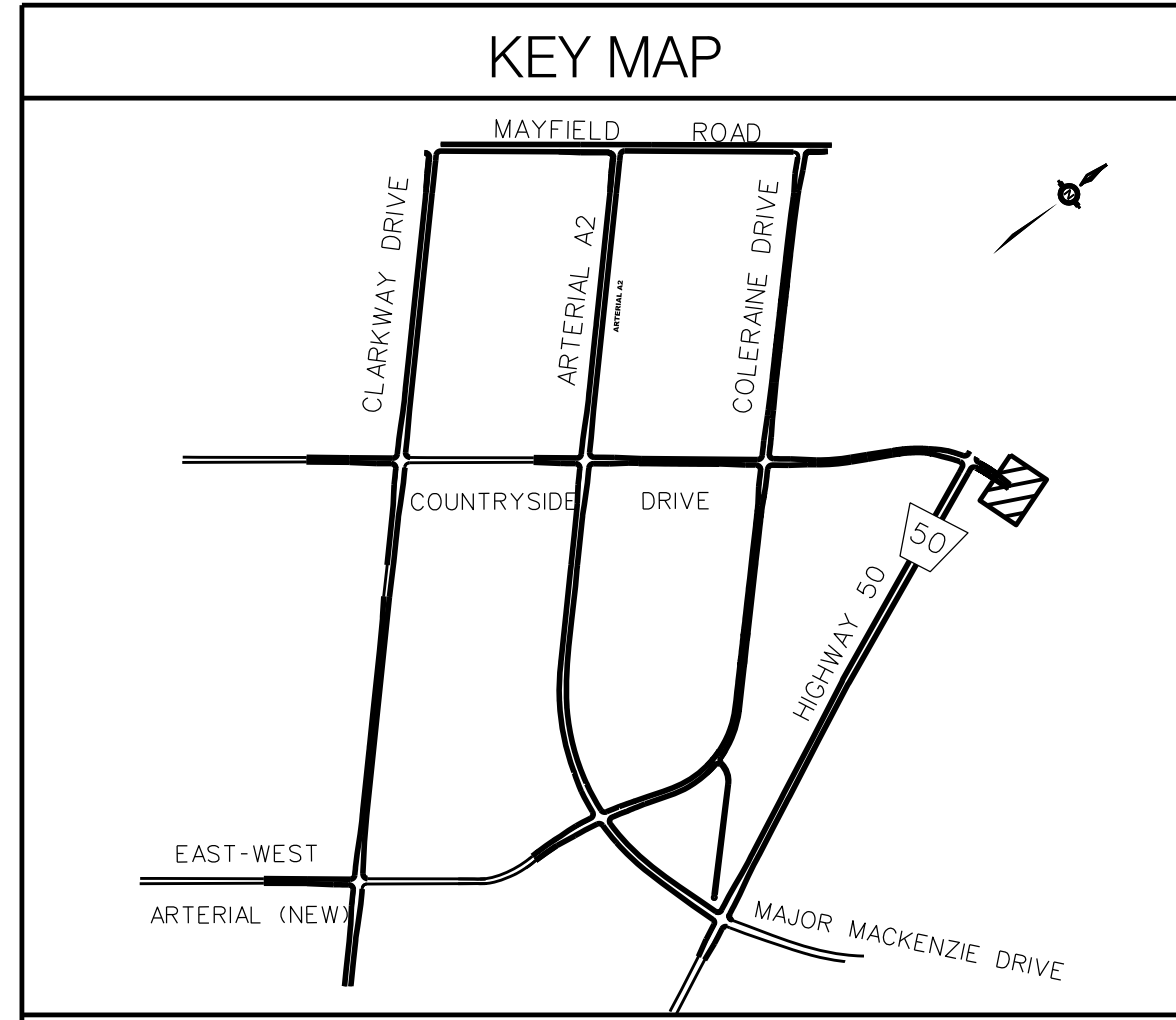
COUNTRYSIDE DRIVE  
 CLARKWAY DRIVE TO COLERAINE DRIVE  
 PROPOSED STREET LIGHTING - LAYOUT XIV

DWG. NO.: N1-10SL-XX SHT NO.: SL-15





N1-10SL-XX



**STREETLIGHT SYMBOLS LEGEND**

**POLES AND ELECTRICAL CHAMBERS**

- EXISTING CONCRETE POLE
- NEW CONCRETE POLE
- TEMPORARY WOOD POLE
- EXISTING WOOD POLE
- EXISTING CIRCULAR SPUN ALUMINUM POLE
- NEW CIRCULAR SPUN ALUMINUM POLE
- EXISTING STEEL POLE
- EXISTING HANDWELL (300mm)
- NEW HANDWELL (300mm)
- EXISTING JUNCTION BOX (450mm)
- NEW JUNCTION BOX (450mm)
- EXISTING MANHOLE (600mm x 600mm)

**POLE EQUIPMENT AND CONNECTIONS**

- EXISTING LUMINAIRE ON BRACKET
- NEW LUMINAIRE ON BRACKET
- INDICATES REMOVAL
- INDICATES ABANDON
- IN-LINE FUSE
- GROUND PLATE
- BACKGUY
- STREET LIGHT IDENTIFICATION TAG (TYPE) (POLE #)

**POWER CONNECTIONS**

- HYDRO ONE BRAMPTON TRANSFORMER WITH IDENTIFICATION NUMBER
- EXISTING POLE-MOUNT TRANSFORMER
- PROPOSED POLE-MOUNT TRANSFORMER
- HYDRO-OWNED JUNCTION BOX
- POLE-MOUNT DISCONNECT WITH STREET LIGHT IDENTIFICATION NUMBER
- POWER PEDESTAL WITH STREET LIGHT IDENTIFICATION NUMBER
- 50A IN-POLE BREAKER
- DOUBLE 50A IN-POLE BREAKER

**DUCTS**

- EXISTING 50mm RIGID PVC DUCT
- NEW 50mm RIGID PVC DUCT
- EXISTING 100mm RIGID PVC DUCT
- NEW 100mm RIGID PVC DUCT
- EXISTING O/H SIL CABLE
- NEW O/H SIL CABLE

**WIRING**

- EX SL - EXISTING SIL CABLE
- HCU - HYDRO CABLE UNDERGROUND
- HCA - HYDRO CABLE AERIAL
- DENOTES JUNCTION BOX OR HANDWELL ON WIRING DIAGRAM

**GENERAL NOTES**

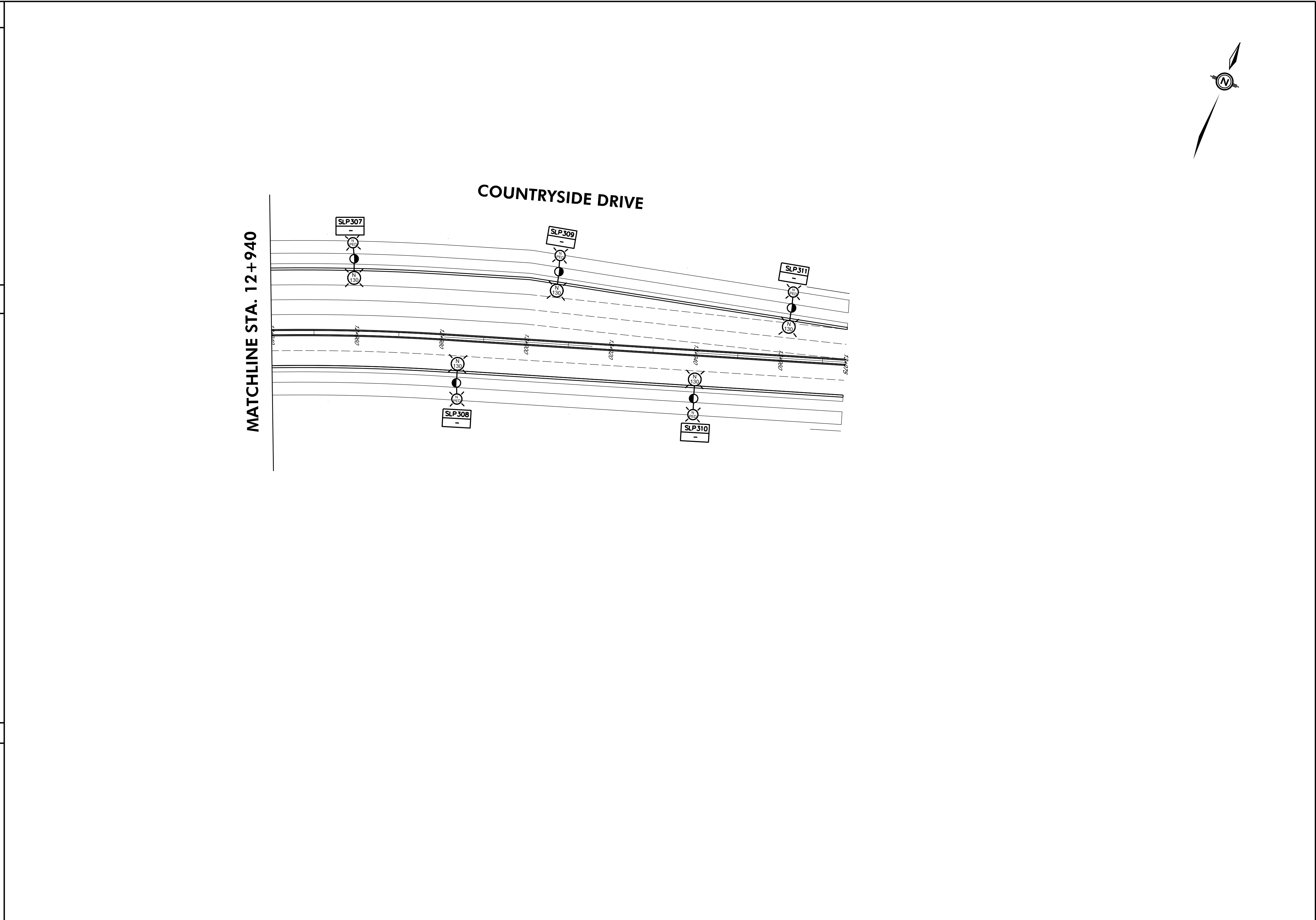
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**NOTES**

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**STREET LIGHT POLE DETAILS**

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE				ARM & HEAD				GROUND ROD	IN-POLE BREAKER	
				TYPE / MATERIAL	HEIGHT	BRACKET	WATTAGE	TYPE / MATERIAL	HEIGHT	BRACKET	WATTAGE			
				TRS-35 TAPERED										

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DATE: July 16, 2021      APPROVAL: \_\_\_\_\_

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**Moon-Matz Ltd.**  
Consulting Engineers

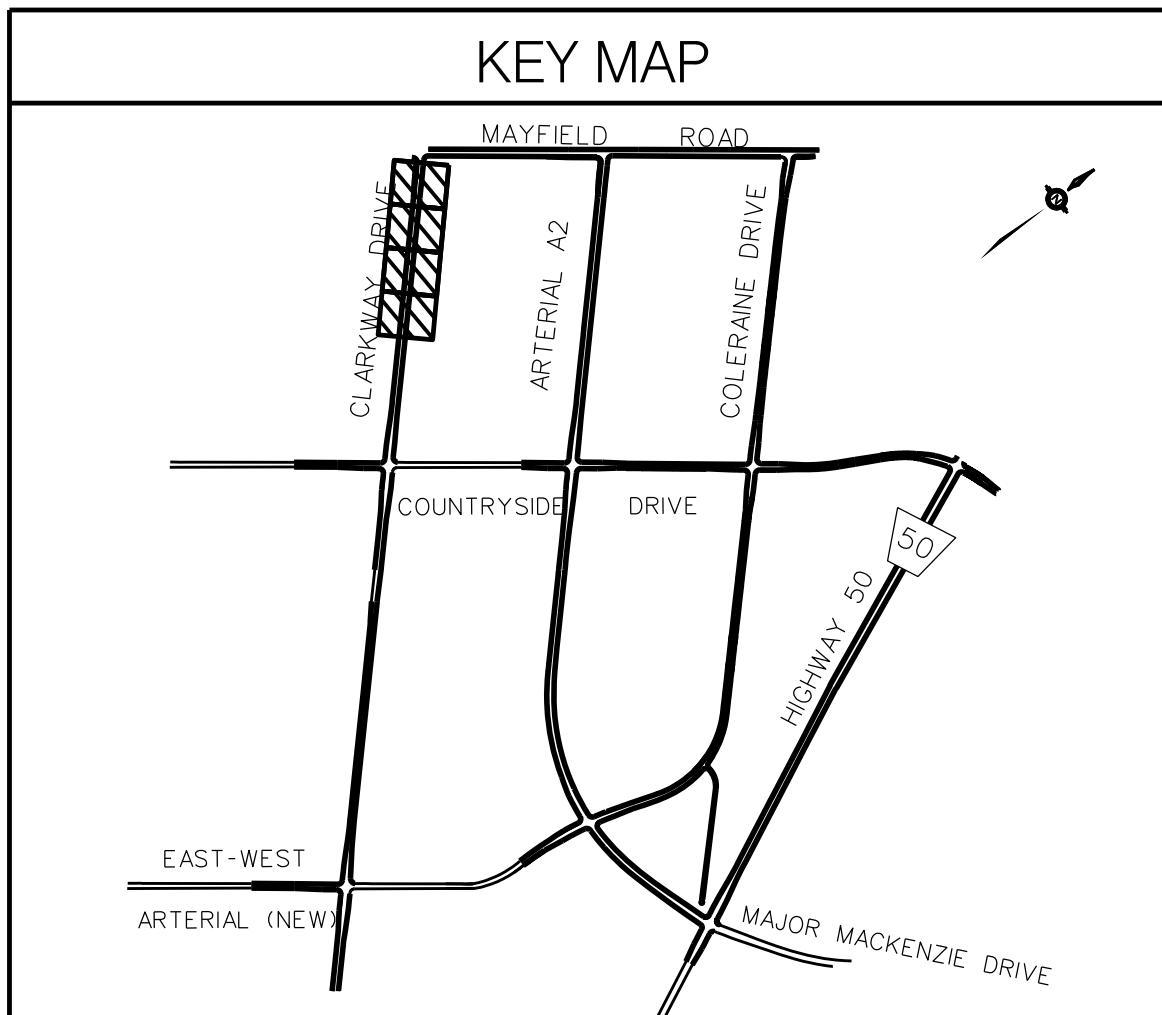
**BRAMPTON**  
Flower City

**Planning and Infrastructure Services**  
Public Works

COUNTRYSIDE DRIVE  
CLARKWAY DRIVE TO COLERAINE DRIVE  
PROPOSED STREET LIGHTING - LAYOUT XVI

**DWG. NO.: N1-10SL-XX    SHT NO.: SL-17**

N1-10SL-XX



**STREETLIGHT SYMBOLS LEGEND**

**POLES AND ELECTRICAL CHAMBERS**

- ⊗ EXISTING CONCRETE POLE
- NEW CONCRETE POLE
- ⊙ TEMPORARY WOOD POLE
- ⦿ EXISTING WOOD POLE
- ⦿ EXISTING CIRCULAR SPUN ALUMINUM POLE
- ⦿ NEW CIRCULAR SPUN ALUMINUM POLE
- EXISTING STEEL POLE
- ⊗ EXISTING HANDWELL (300mm)
- ⦿ NEW HANDWELL (300mm)
- ⦿ EXISTING JUNCTION BOX (450mm)
- ⦿ NEW JUNCTION BOX (450mm)
- ⦿ EXISTING MANHOLE (600mm x 600mm)

**POLE EQUIPMENT AND CONNECTIONS**

- ☼ EXISTING LUMINAIRE ON BRACKET
- ☼ NEW LUMINAIRE ON BRACKET
- ✕ INDICATES REMOVAL
- ✕ INDICATES ABANDON
- IN-LINE FUSE
- ⬇ GROUND PLATE
- ⌵ BACKGUY
- [TYPE]x [POLE #] STREET LIGHT IDENTIFICATION TAG  
[TYPE] ELP = Existing; SLP = New; R = Removal

**POWER CONNECTIONS**

- HC Txxxx HYDRO ONE BRAMPTON TRANSFORMER WITH IDENTIFICATION NUMBER
- △ EXISTING POLE-MOUNT TRANSFORMER
- ▲ PROPOSED POLE-MOUNT TRANSFORMER
- J HYDRO-OWNED JUNCTION BOX
- PS SLxxxx POLE-MOUNT DISCONNECT WITH STREET LIGHT IDENTIFICATION NUMBER
- ⊗ SLxxxx POWER PEDESTAL WITH STREET LIGHT IDENTIFICATION NUMBER
- 50A SLxxxx 50A IN-POLE BREAKER
- 2P-50A SLxxxx DOUBLE 50A IN-POLE BREAKER

**DUCTS**

- - - - - EXISTING 50mm RIGID PVC DUCT
- - - - - NEW 50mm RIGID PVC DUCT
- - - - - EXISTING 100mm RIGID PVC DUCT
- - - - - NEW 100mm RIGID PVC DUCT
- - - - - EXISTING OH S/L CABLE
- - - - - NEW OH S/L CABLE

**WIRING**

- - - - - EXISTING S/L CABLE
- - - - - HCU HYDRO CABLE UNDERGROUND
- - - - - HCA HYDRO CABLE AERIAL
- [ ] DENOTES JUNCTION BOX OR HANDWELL ON WIRING DIAGRAM

**GENERAL NOTES**

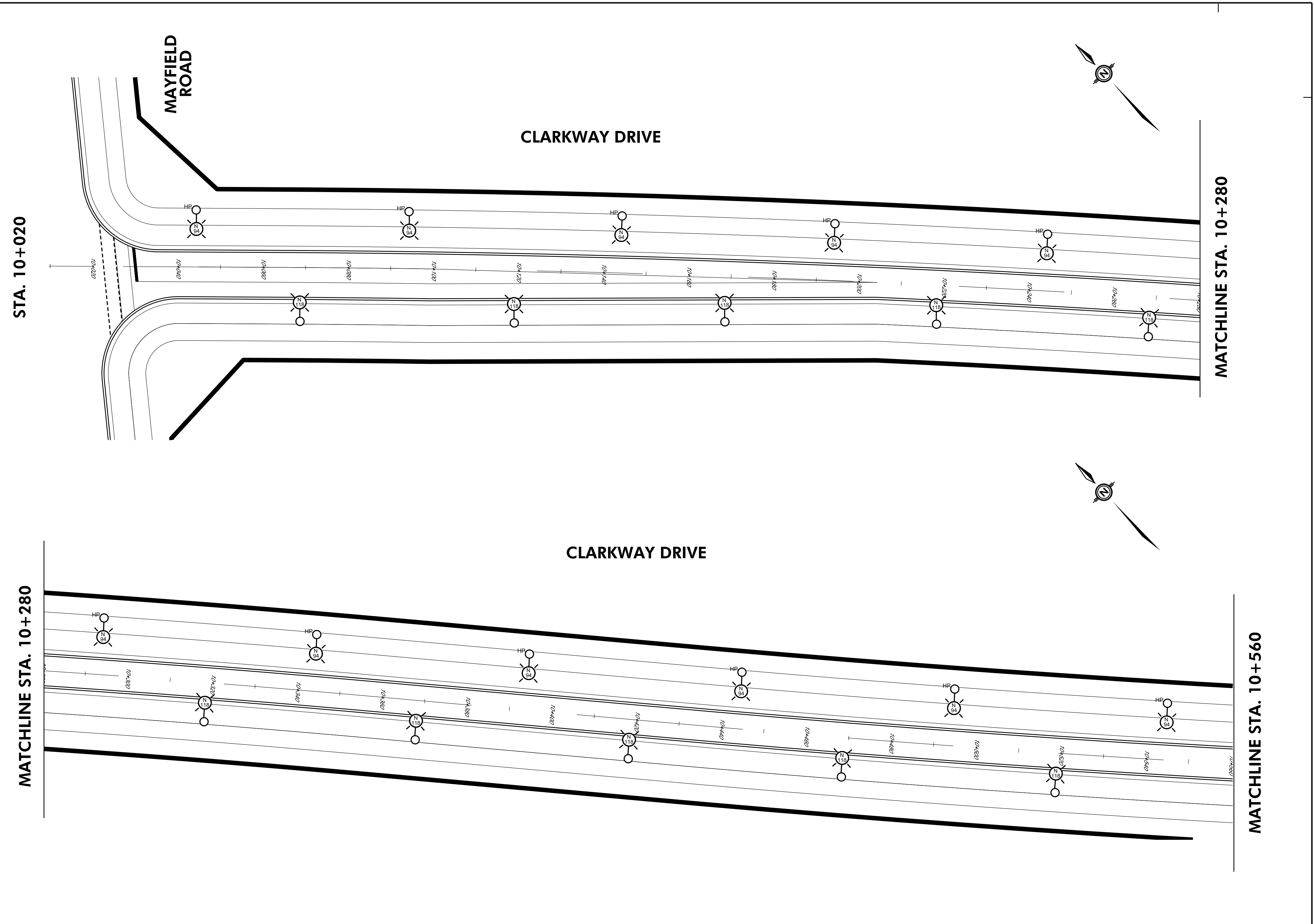
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**STREET LIGHT POLE DETAILS**

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE TYPE / MATERIAL	HEIGHT	ARM & HEAD BRACKET	WATTAGE	GROUND ROD	IN-POLE BREAKER

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**Moon-Matz Ltd.**  
Consulting Engineers

**BRAMPTON**  
Flower City  
brampton.cc

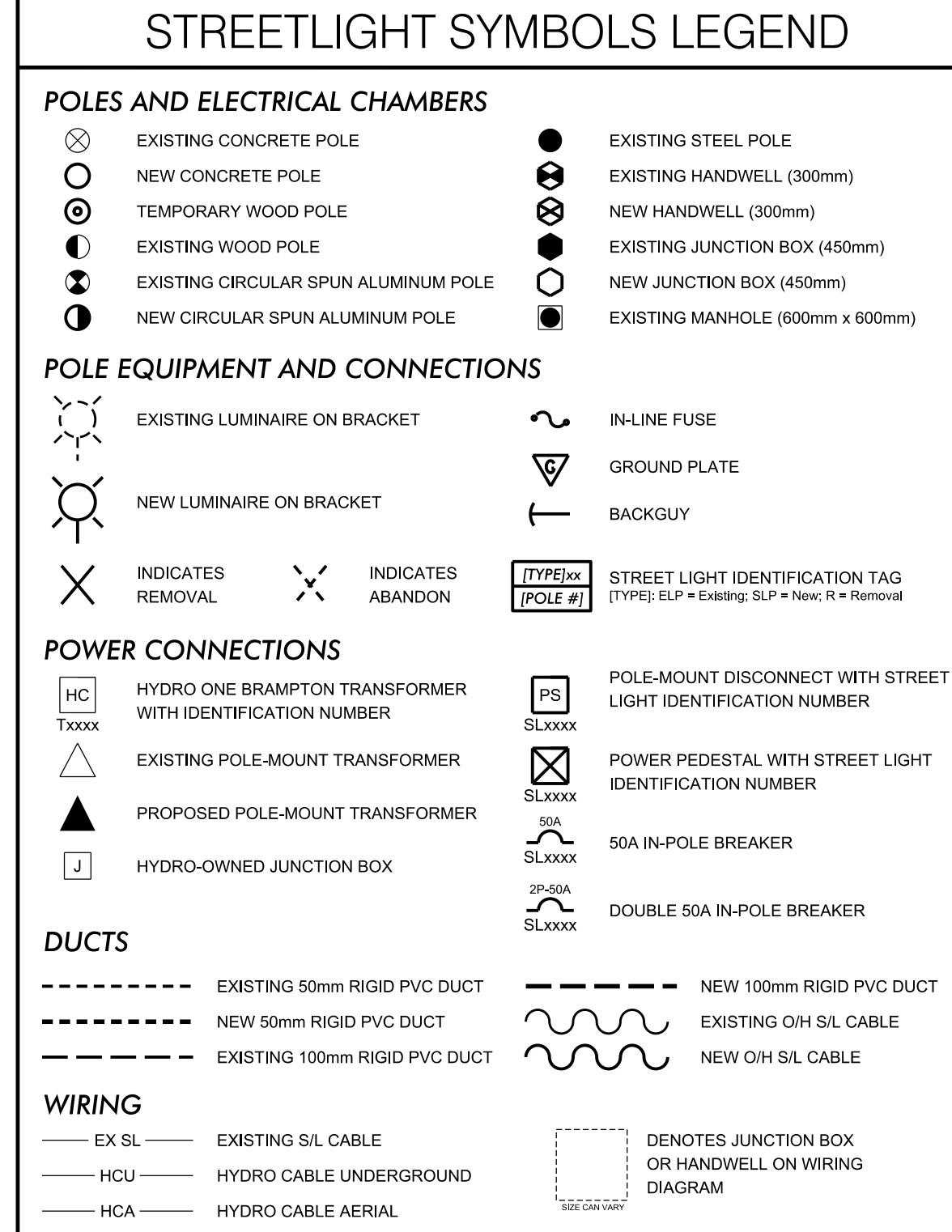
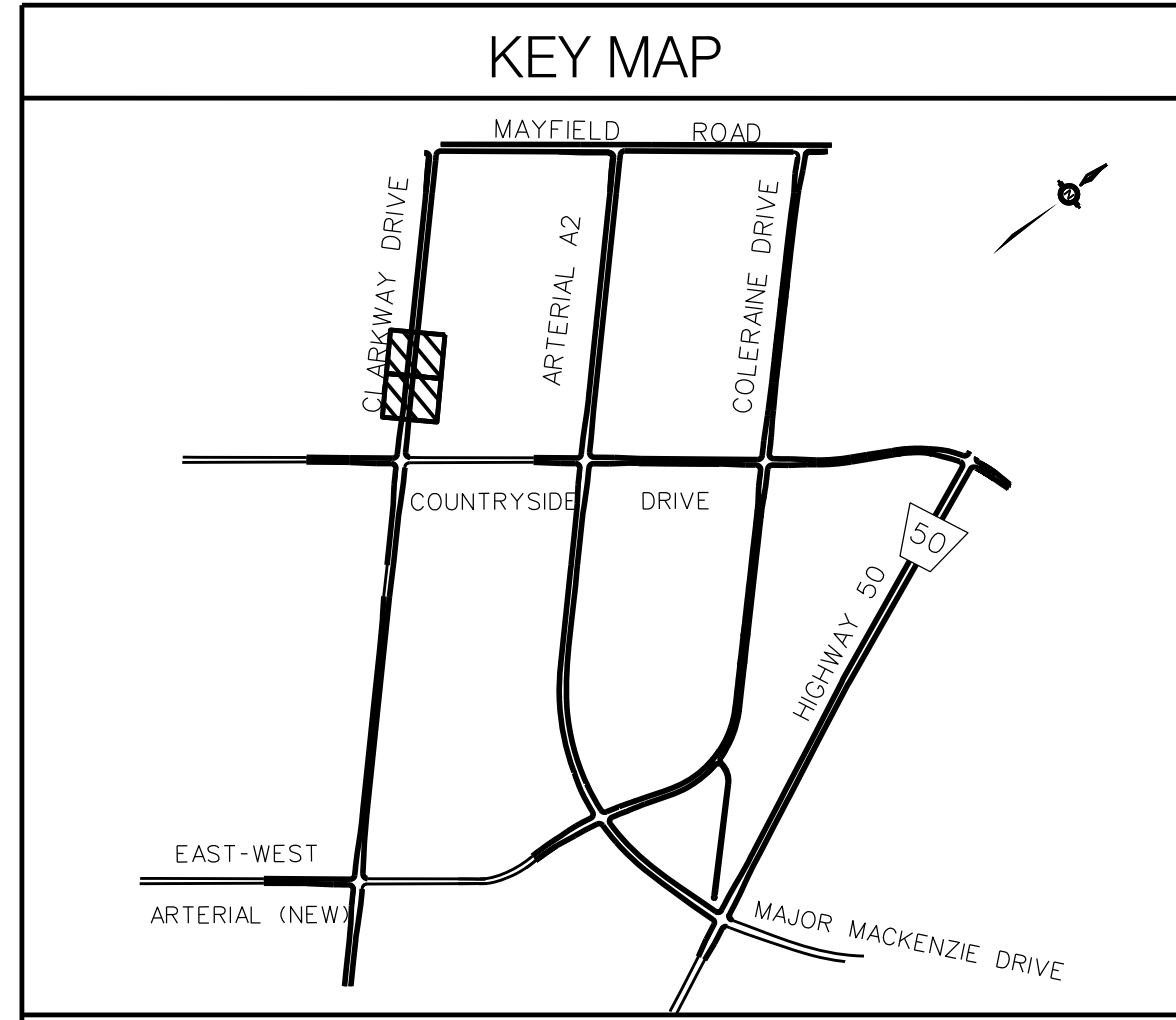
**Planning and Infrastructure Services**

Public Works

CLARKWAY DRIVE  
MAYFIELD DRIVE TO COUNTRYSIDE DRIVE  
PROPOSED STREET LIGHTING - LAYOUT XVII

DWG. NO.: N1-10SL-XX
SHT NO.: SL-18

N1-10SL-XX



**GENERAL NOTES**

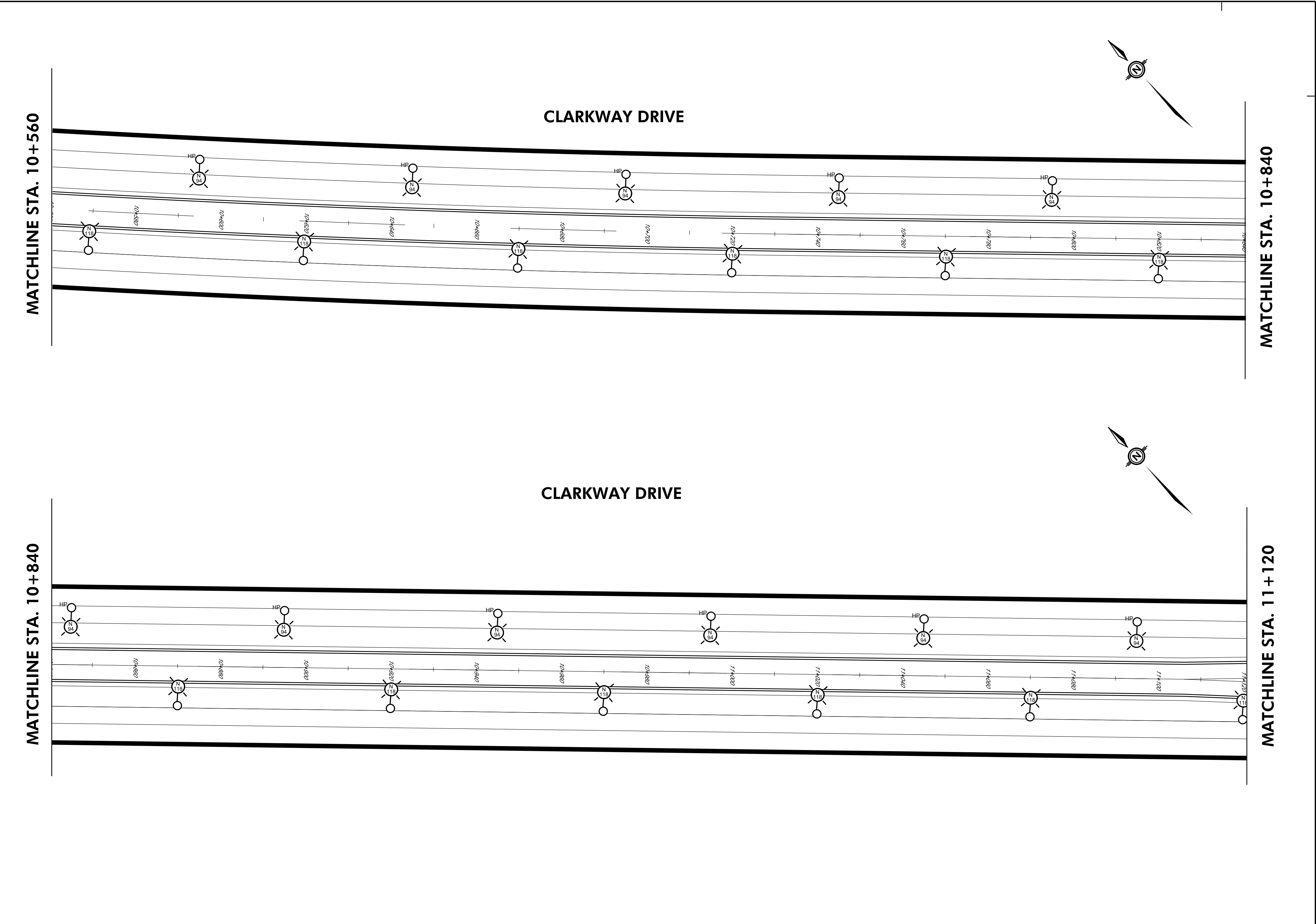
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**STREET LIGHT POLE DETAILS**

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE				ARM & HEAD				GROUND ROD	IN-POLE BREAKER	
				TYPE / MATERIAL	HEIGHT	BRACKET	WATTAGE	HEIGHT	BRACKET	WATTAGE				

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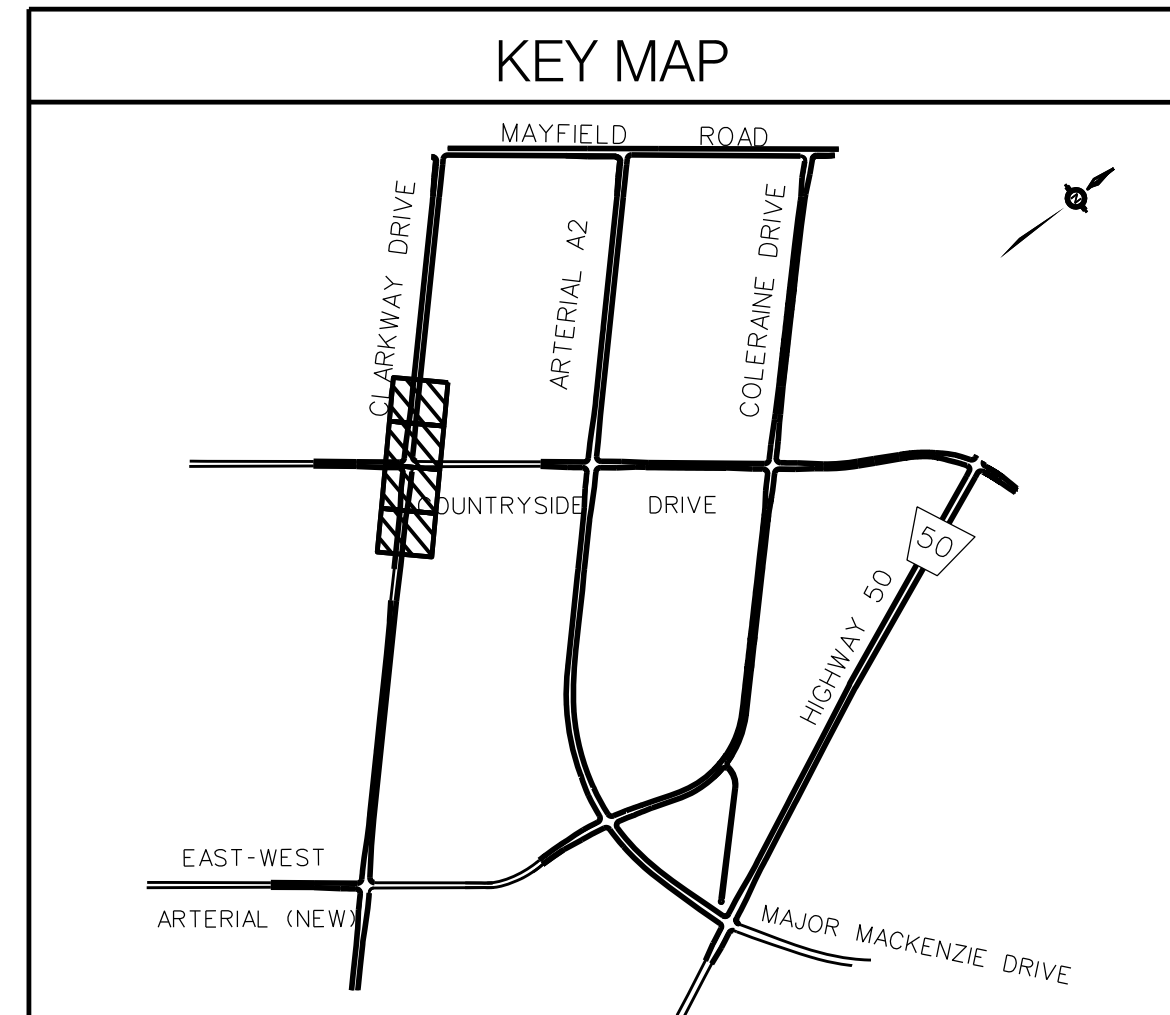
**BRAMPTON** Planning and Infrastructure Services  
Flower City Public Works

CLARKWAY DRIVE  
MAYFIELD DRIVE TO COUNTRYSIDE DRIVE  
PROPOSED STREET LIGHTING - LAYOUT XVIII

**DWG. NO.: N1-10SL-XX    SHT NO.: SL-19**



N1-10SL-XX



### STREETLIGHT SYMBOLS LEGEND

**POLES AND ELECTRICAL CHAMBERS**

- ⊗ EXISTING CONCRETE POLE
- NEW CONCRETE POLE
- ⊙ TEMPORARY WOOD POLE
- ⊘ EXISTING WOOD POLE
- ⊙ EXISTING CIRCULAR SPUN ALUMINUM POLE
- ⊙ NEW CIRCULAR SPUN ALUMINUM POLE
- EXISTING STEEL POLE
- ⊗ EXISTING HANDWELL (300mm)
- ⊙ NEW HANDWELL (300mm)
- ⊙ EXISTING JUNCTION BOX (450mm)
- ⊙ NEW JUNCTION BOX (450mm)
- ⊙ EXISTING MANHOLE (600mm x 600mm)

**POLE EQUIPMENT AND CONNECTIONS**

- ☼ EXISTING LUMINAIRE ON BRACKET
- ☼ NEW LUMINAIRE ON BRACKET
- ✕ INDICATES REMOVAL
- ✕ INDICATES ABANDON
- ⚡ IN-LINE FUSE
- ⬆ GROUND PLATE
- ⬆ BACKGUY
- ⓧ [TYPE] [POLE #] STREET LIGHT IDENTIFICATION TAG  
(TYPE: SL - Existing, SL - New, R - Removal)

**POWER CONNECTIONS**

- HC Txxxx HYDRO ONE BRAMPTON TRANSFORMER WITH IDENTIFICATION NUMBER
- △ EXISTING POLE-MOUNT TRANSFORMER
- ▲ PROPOSED POLE-MOUNT TRANSFORMER
- J HYDRO-OWNED JUNCTION BOX
- PS SLxxxx POLE-MOUNT DISCONNECT WITH STREET LIGHT IDENTIFICATION NUMBER
- ⊗ SLxxxx POWER PEDESTAL WITH STREET LIGHT IDENTIFICATION NUMBER
- ⓧ SLxxxx 50A IN-POLE BREAKER
- ⓧ SLxxxx DOUBLE 50A IN-POLE BREAKER

**DUCTS**

- - - - - EXISTING 50mm RIGID PVC DUCT
- - - - - NEW 50mm RIGID PVC DUCT
- - - - - EXISTING 100mm RIGID PVC DUCT
- - - - - NEW 100mm RIGID PVC DUCT
- - - - - EXISTING OH SIL CABLE
- - - - - NEW OH SIL CABLE

**WIRING**

- EX SL EXISTING SIL CABLE
- HCU HYDRO CABLE UNDERGROUND
- HCA HYDRO CABLE AERIAL
- DENOTES JUNCTION BOX OR HANDWELL ON WIRING DIAGRAM

### GENERAL NOTES

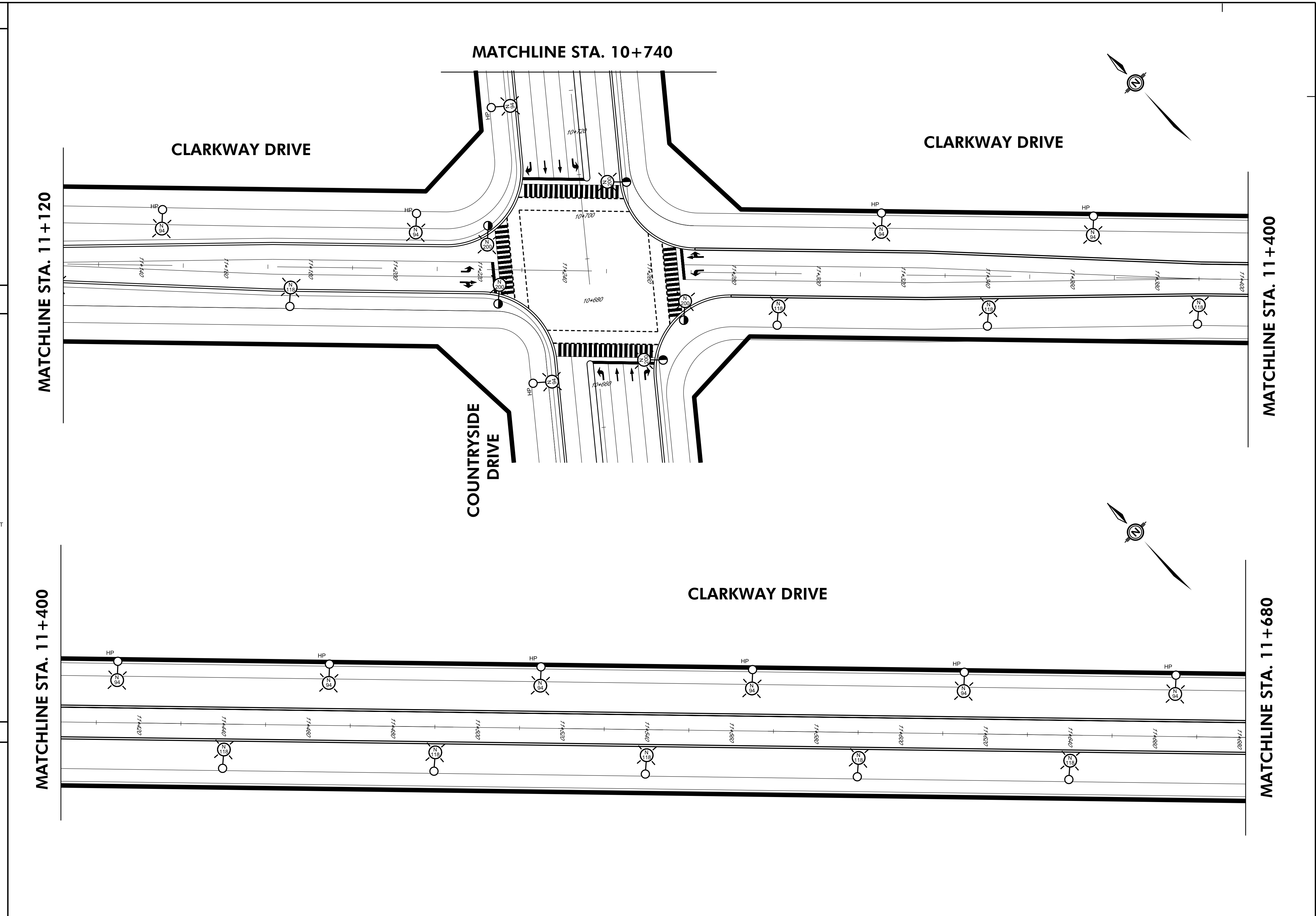
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### STREET LIGHT POLE DETAILS

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE				ARM & HEAD				GROUND ROD	IN-POLE BREAKER	
				TYPE / MATERIAL	HEIGHT	BRACKET	WATTAGE	HEIGHT	BRACKET	WATTAGE				


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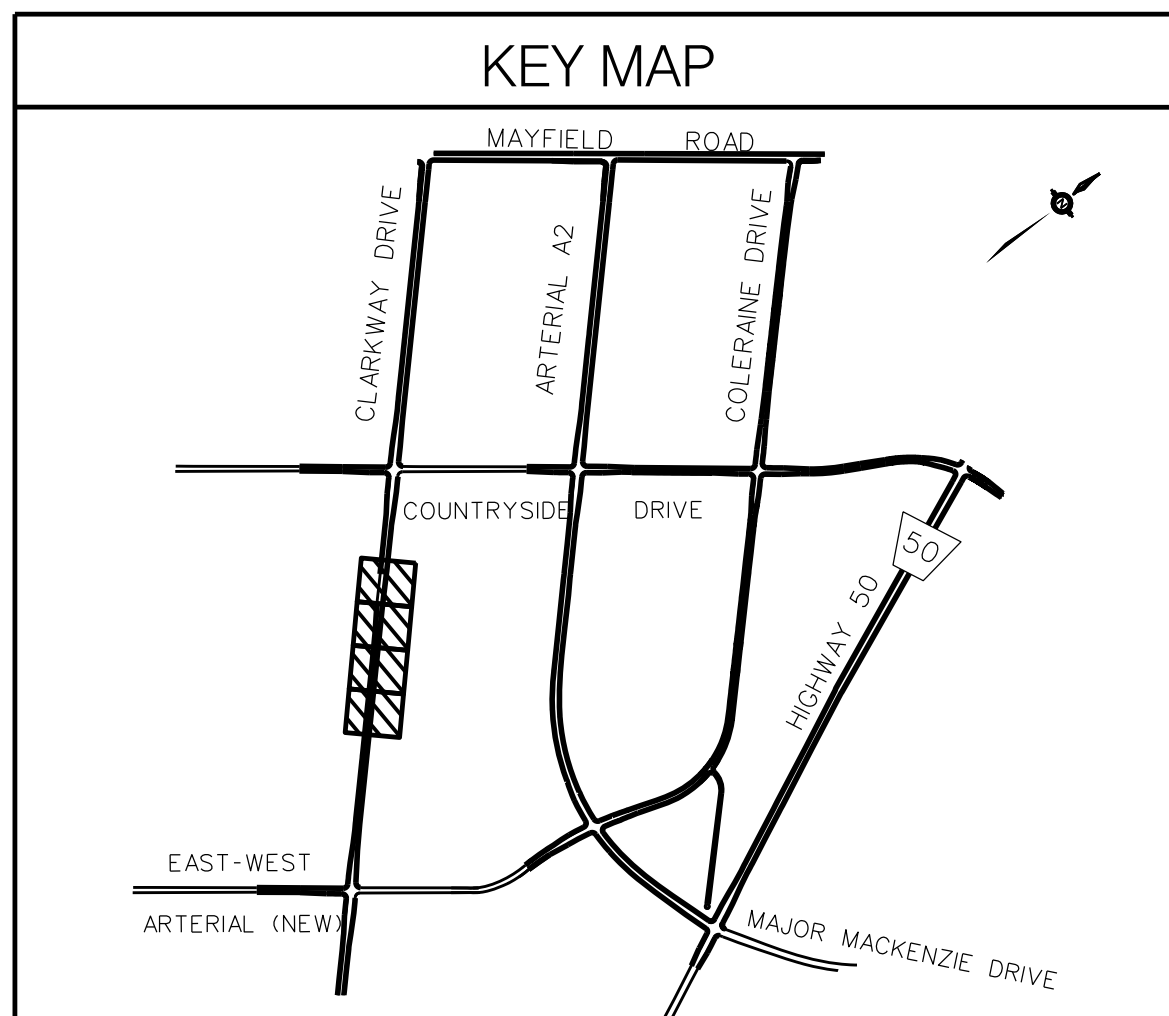

**BRAMPTON** Planning and Infrastructure Services  
 Flower City Public Works

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CLARKWAY DRIVE  
 COUNTRYSIDE DRIVE TO EAST - WEST ARTERIAL  
 PROPOSED STREET LIGHTING - LAYOUT XIX

**DWG. NO.: N1-10SL-XX**    **SHT NO.: SL-20**

N1-10SL-XX



**STREETLIGHT SYMBOLS LEGEND**

**POLES AND ELECTRICAL CHAMBERS**

⊗	EXISTING CONCRETE POLE	●	EXISTING STEEL POLE
⊙	NEW CONCRETE POLE	⊗	EXISTING HANDWELL (300mm)
⊙	TEMPORARY WOOD POLE	⊗	NEW HANDWELL (300mm)
⊙	EXISTING WOOD POLE	⊗	EXISTING JUNCTION BOX (450mm)
⊙	EXISTING CIRCULAR SPUN ALUMINUM POLE	⊗	NEW JUNCTION BOX (450mm)
⊙	NEW CIRCULAR SPUN ALUMINUM POLE	⊗	EXISTING MANHOLE (600mm x 600mm)

**POLE EQUIPMENT AND CONNECTIONS**

☼	EXISTING LUMINAIRE ON BRACKET	⋈	IN-LINE FUSE
☼	NEW LUMINAIRE ON BRACKET	⋈	GROUND PLATE
⊗	INDICATES REMOVAL	⊗	INDICATES ABANDON
⊗	INDICATES REMOVAL	[TYPE]x[POLE #]	STREET LIGHT IDENTIFICATION TAG (TYPE: EP = Existing, SL = New, R = Removal)

**POWER CONNECTIONS**

HC Txxxx	HYDRO ONE BRAMPTON TRANSFORMER WITH IDENTIFICATION NUMBER	PS SLxxxx	POLE-MOUNT DISCONNECT WITH STREET LIGHT IDENTIFICATION NUMBER
△	EXISTING POLE-MOUNT TRANSFORMER	⊗	POWER PEDESTAL WITH STREET LIGHT IDENTIFICATION NUMBER
▲	PROPOSED POLE-MOUNT TRANSFORMER	50 SLxxxx	50A IN-POLE BREAKER
J	HYDRO-OWNED JUNCTION BOX	30-50A SLxxxx	DOUBLE 50A IN-POLE BREAKER

**DUCTS**

---	EXISTING 50mm RIGID PVC DUCT	---	NEW 100mm RIGID PVC DUCT
---	NEW 50mm RIGID PVC DUCT	---	EXISTING OH SIL CABLE
---	EXISTING 100mm RIGID PVC DUCT	---	NEW OH SIL CABLE

**WIRING**

---	EX SL - EXISTING SIL CABLE	---	DENOTES JUNCTION BOX OR HANDWELL ON WIRING DIAGRAM
---	HCU - HYDRO CABLE UNDERGROUND		
---	HCA - HYDRO CABLE AERIAL		

**GENERAL NOTES**

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THE CONTRACTOR SHALL MAINTAIN EXISTING ILLUMINATION AT ALL TIMES.

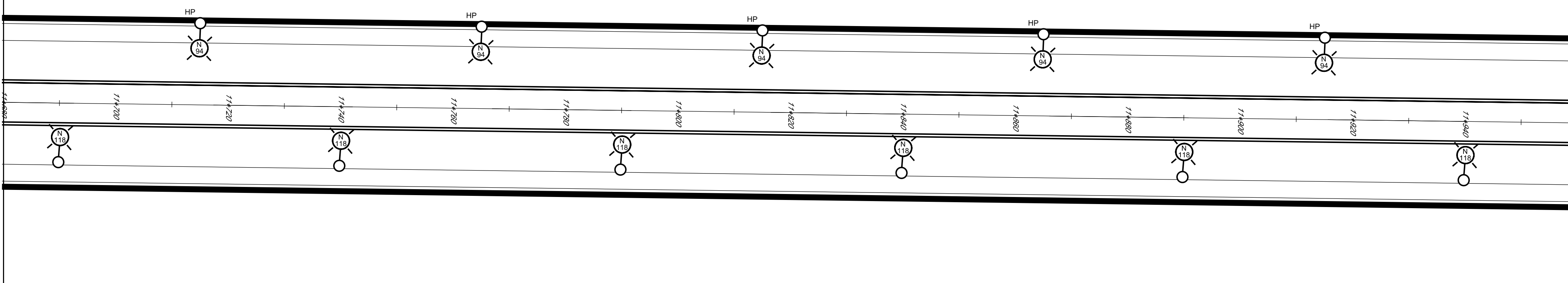
ALL WORK TO BE COORDINATED WITH CITY OF BRAMPTON REPRESENTATIVE.

**NOTES**

1. POLE AND LUMINAIRE TO BE INSTALLED AS PART OF THE TRAFFIC SIGNAL INSTALLATION. SHOWN FOR REFERENCE ONLY.

MATCHLINE STA. 11 + 680

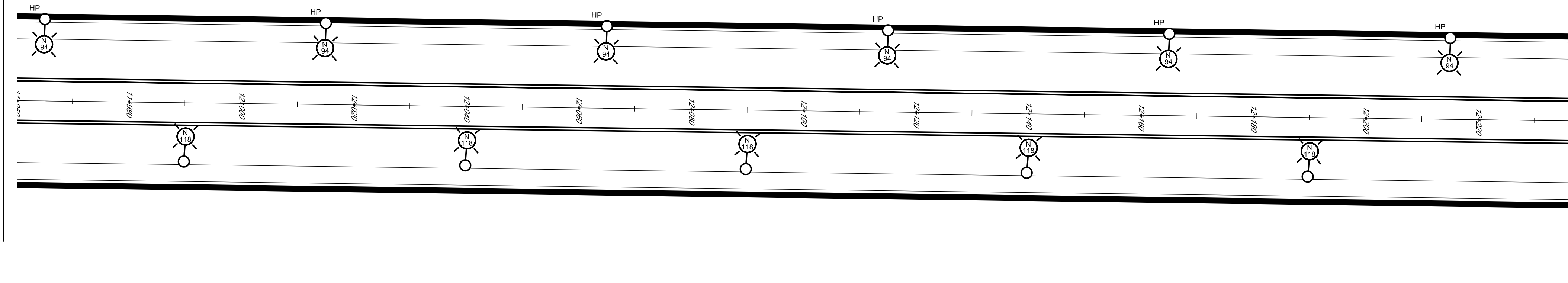
**CLARKWAY DRIVE**



MATCHLINE STA. 11 + 960

MATCHLINE STA. 11 + 960

**CLARKWAY DRIVE**



MATCHLINE STA. 12 + 240

**STREET LIGHT POLE DETAILS**

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE				ARM & HEAD				GROUND ROD	IN-POLE BREAKER	
				TYPE / MATERIAL	HEIGHT	BRACKET	WATTAGE	TYPE / MATERIAL	HEIGHT	BRACKET	WATTAGE			

**SCHEDULE OF APPROVALS**

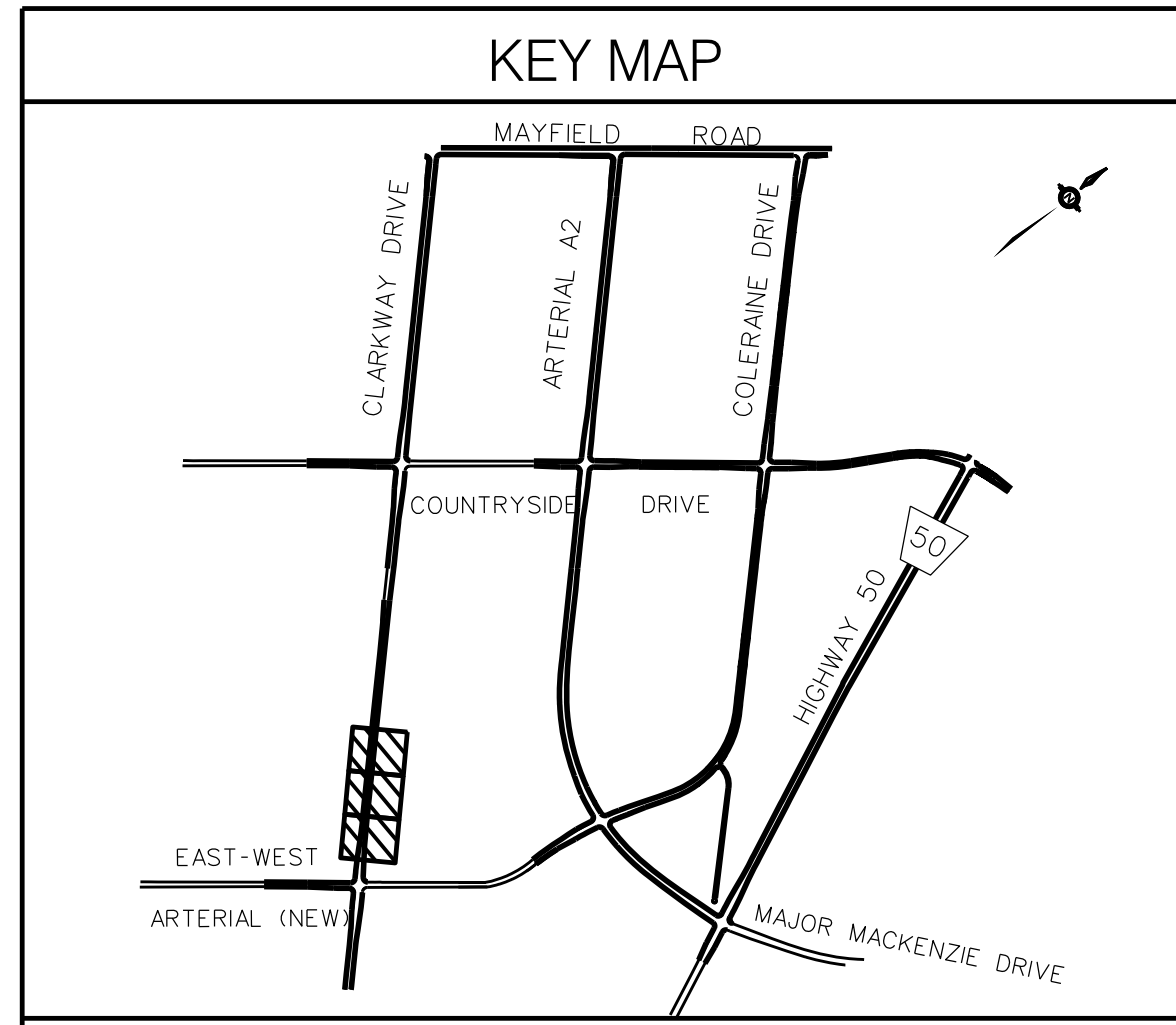
NO.	DATE	BY	DESCRIPTION	CHECKED BY
1	DEC 14/21	VS	ISSUED FOR FINAL PRELIMINARY	MM

SCALE: 1 : 500	DESIGNED BY: M.M.	CHECKED BY: M.M.
DATE: DEC XX, 2021	APPROVAL:	
CONTRACT NO: 2013-012	APPROVAL DATE:	

CLARKWAY DRIVE  
COUNTRYSIDE DRIVE TO EAST - WEST ARTERIAL  
PROPOSED STREET LIGHTING - LAYOUT XX

**DWG. NO.: N1-10SL-XX** **SHT NO.: SL-21**

N1-10SL-XX



### STREETLIGHT SYMBOLS LEGEND

<b>POLES AND ELECTRICAL CHAMBERS</b>	
⊗ EXISTING CONCRETE POLE	● EXISTING STEEL POLE
○ NEW CONCRETE POLE	● EXISTING HANDWELL (300mm)
⊙ TEMPORARY WOOD POLE	● NEW HANDWELL (300mm)
⊙ EXISTING WOOD POLE	● EXISTING JUNCTION BOX (450mm)
● EXISTING CIRCULAR SPUN ALUMINUM POLE	● NEW JUNCTION BOX (450mm)
● NEW CIRCULAR SPUN ALUMINUM POLE	● EXISTING MANHOLE (600mm x 600mm)
<b>POLE EQUIPMENT AND CONNECTIONS</b>	
☼ EXISTING LUMINAIRE ON BRACKET	⋈ IN-LINE FUSE
☼ NEW LUMINAIRE ON BRACKET	⬆ GROUND PLATE
✕ INDICATES REMOVAL	✕ INDICATES ABANDON
⊠ STREET LIGHT IDENTIFICATION TAG (TYPE) ELP = Existing; SLF = New; R = Removal	
<b>POWER CONNECTIONS</b>	
HC Txxxx HYDRO ONE BRAMPTON TRANSFORMER WITH IDENTIFICATION NUMBER	PS SLxxxx POLE-MOUNT DISCONNECT WITH STREET LIGHT IDENTIFICATION NUMBER
▲ EXISTING POLE-MOUNT TRANSFORMER	⊠ SLxxxx POWER PEDESTAL WITH STREET LIGHT IDENTIFICATION NUMBER
▲ PROPOSED POLE-MOUNT TRANSFORMER	50A SLxxxx 50A IN-POLE BREAKER
☐ HYDRO-OWNED JUNCTION BOX	2P-50A SLxxxx DOUBLE 50A IN-POLE BREAKER
<b>DUCTS</b>	
- - - EXISTING 50mm RIGID PVC DUCT	- - - NEW 100mm RIGID PVC DUCT
- - - NEW 50mm RIGID PVC DUCT	- - - EXISTING O/H S/L CABLE
- - - EXISTING 100mm RIGID PVC DUCT	- - - NEW O/H S/L CABLE
<b>WIRING</b>	
- - - EX SL EXISTING S/L CABLE	☐ DENOTES JUNCTION BOX OR HANDWELL ON WIRING DIAGRAM
- - - HCU HYDRO CABLE UNDERGROUND	
- - - HCA HYDRO CABLE AERIAL	

### GENERAL NOTES

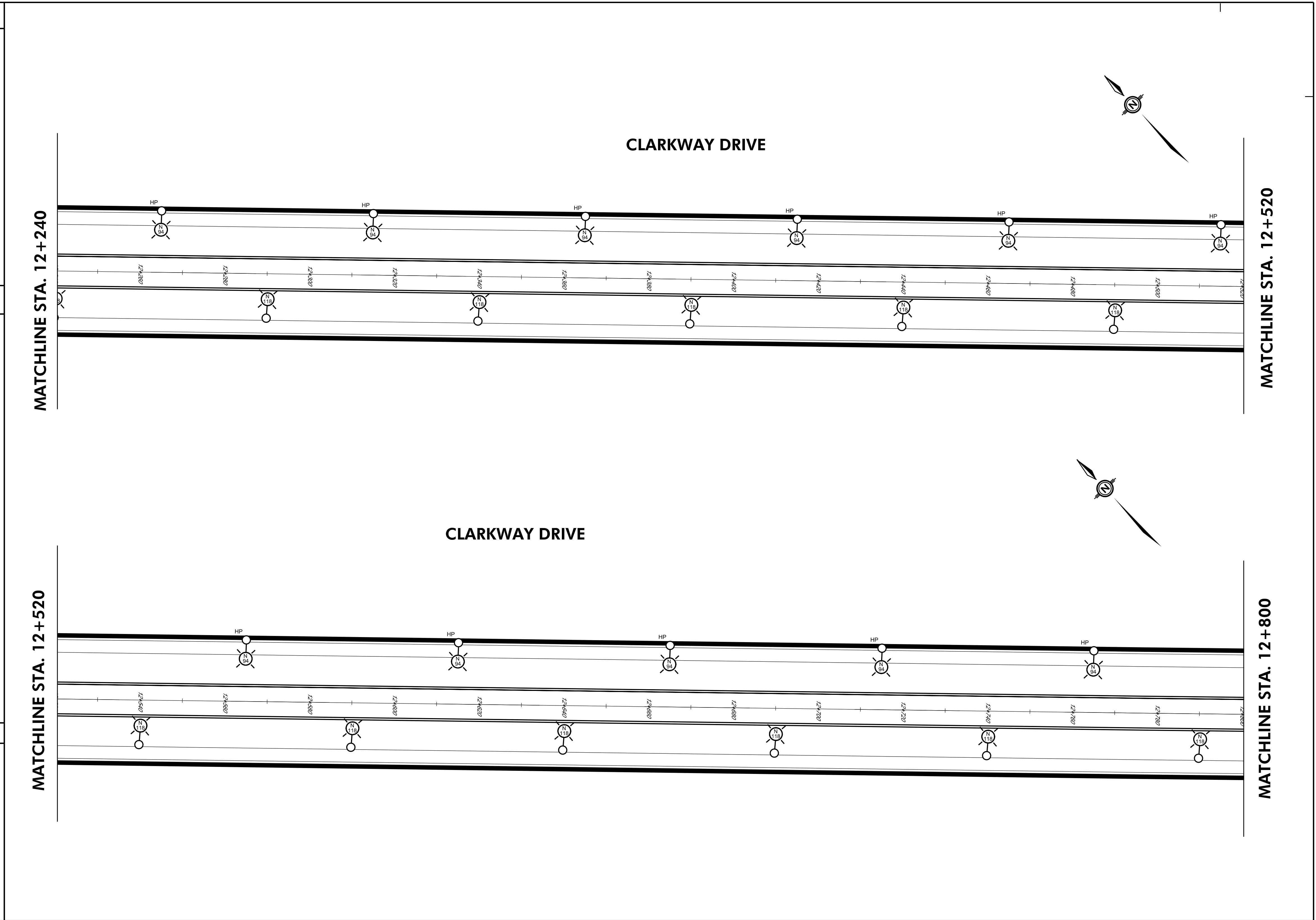
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ALL WORK TO BE COORDINATED WITH CITY OF BRAMPTON REPRESENTATIVE.

### NOTES

1. POLE AND LUMINAIRE TO BE INSTALLED AS PART OF THE TRAFFIC SIGNAL INSTALLATION. SHOWN FOR REFERENCE ONLY.



### STREET LIGHT POLE DETAILS

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE			ARM & HEAD		GROUND ROD	IN-POLE BREAKER
				TYPE / MATERIAL	HEIGHT	BRACKET	WATTAGE	WATTAGE		

### SCHEDULE OF APPROVALS

NO.	DATE	BY	DESCRIPTION	CHECKED BY
1	DEC 14/21	VS	ISSUED FOR FINAL PRELIMINARY	MM

SCALE: 1 : 500      DESIGNED BY: M.M.      CHECKED BY: M.M.

DATE: DEC 14, 2021      APPROVAL: \_\_\_\_\_

CONTRACT NO: 2013-012      APPROVAL DATE: \_\_\_\_\_

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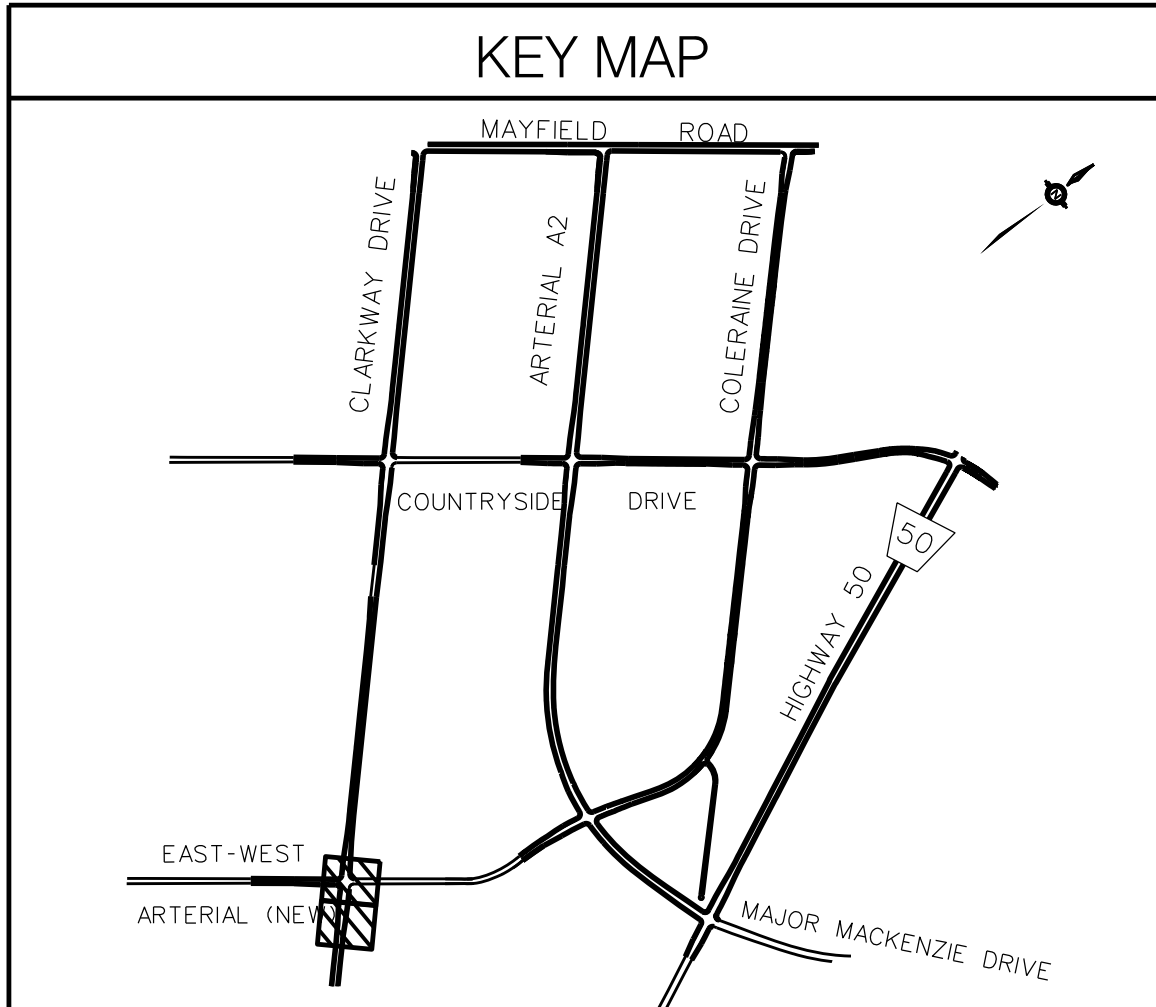
**BRAMPTON**  
Flower City

**Planning and Infrastructure Services**  
Public Works

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CLARKWAY DRIVE  
COUNTRYSIDE DRIVE TO EAST - WEST ARTERIAL  
PROPOSED STREET LIGHTING - LAYOUT XXI

**DWG. NO.: N1-10SL-XX    SHT NO.: SL-22**



STREETLIGHT SYMBOLS LEGEND

- POLES AND ELECTRICAL CHAMBERS**
  - ⊗ EXISTING CONCRETE POLE
  - NEW CONCRETE POLE
  - ⊙ TEMPORARY WOOD POLE
  - EXISTING WOOD POLE
  - ⊙ EXISTING CIRCULAR SPUN ALUMINUM POLE
  - NEW CIRCULAR SPUN ALUMINUM POLE
  - ⊙ EXISTING STEEL POLE
  - ⊙ EXISTING HANDWELL (300mm)
  - ⊙ NEW HANDWELL (300mm)
  - ⊙ EXISTING JUNCTION BOX (450mm)
  - ⊙ NEW JUNCTION BOX (450mm)
  - ⊙ EXISTING MANHOLE (600mm x 600mm)
- POLE EQUIPMENT AND CONNECTIONS**
  - ☀ EXISTING LUMINAIRE ON BRACKET
  - ☀ NEW LUMINAIRE ON BRACKET
  - ⊗ INDICATES REMOVAL
  - ⊗ INDICATES ABANDON
  - ⊙ STREET LIGHT IDENTIFICATION TAG (TYPE: SL - Existing, SL - New, R - Removal)
  - ⊕ IN-LINE FUSE
  - ⊕ GROUND PLATE
  - ⊕ BACKGUY
- POWER CONNECTIONS**
  - HC Txxxx HYDRO ONE BRAMPTON TRANSFORMER WITH IDENTIFICATION NUMBER
  - △ EXISTING POLE-MOUNT TRANSFORMER
  - ▲ PROPOSED POLE-MOUNT TRANSFORMER
  - J HYDRO-OWNED JUNCTION BOX
  - PS SLxxxx POLE-MOUNT DISCONNECT WITH STREET LIGHT IDENTIFICATION NUMBER
  - ⊗ SLxxxx POWER PEDESTAL WITH STREET LIGHT IDENTIFICATION NUMBER
  - ⊕ SLxxxx 50A IN-POLE BREAKER
  - ⊕ SLxxxx DOUBLE 50A IN-POLE BREAKER
- DUCTS**
  - - - - - EXISTING 50mm RIGID PVC DUCT
  - - - - - NEW 50mm RIGID PVC DUCT
  - - - - - EXISTING 100mm RIGID PVC DUCT
  - - - - - NEW 100mm RIGID PVC DUCT
  - - - - - EXISTING O/H SIL CABLE
  - - - - - NEW O/H SIL CABLE
- WIRING**
  - EX SL — EXISTING SIL CABLE
  - HCU — HYDRO CABLE UNDERGROUND
  - HCA — HYDRO CABLE AERIAL
  - DENOTES JUNCTION BOX OR HANDWELL ON WIRING DIAGRAM

GENERAL NOTES

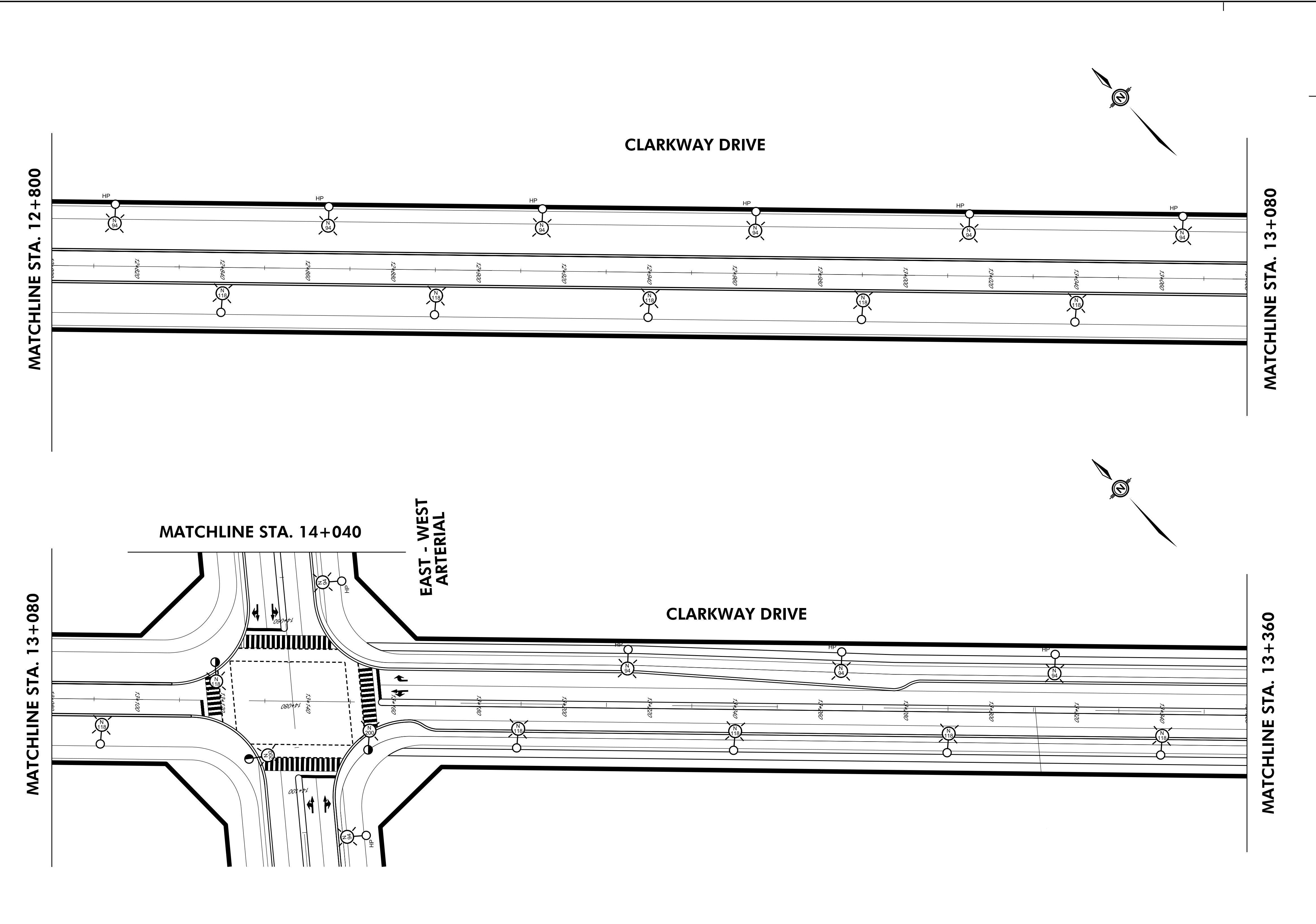
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NOTES

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STREET LIGHT POLE DETAILS

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE					I.D.													
				TYPE / MATERIAL	HEIGHT	ARM & HEAD BRACKET	WATTAGE	GROUND ROD	IN-POLE BREAKER	POLE #	OFFSET FROM EP	STATION	TYPE / MATERIAL	HEIGHT	ARM & HEAD BRACKET	WATTAGE	GROUND ROD	IN-POLE BREAKER				

SCHEDULE OF APPROVALS

NO.	DATE	BY	DESCRIPTION	CHECKED BY
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**BRAMPTON** Planning and Infrastructure Services  
Flower City Public Works

CLARKWAY DRIVE  
COUNTRYSIDE DRIVE TO EAST - WEST ARTERIAL  
PROPOSED STREET LIGHTING - LAYOUT XXII

SCALE: 1 : 500

DESIGNED BY: M.M.

CHECKED BY: M.M.

DATE: DEC 14, 2021

APPROVAL: \_\_\_\_\_

CONTRACT NO: 2013-012

APPROVAL DATE: \_\_\_\_\_

**DWG. NO.: N1-10SL-XX**

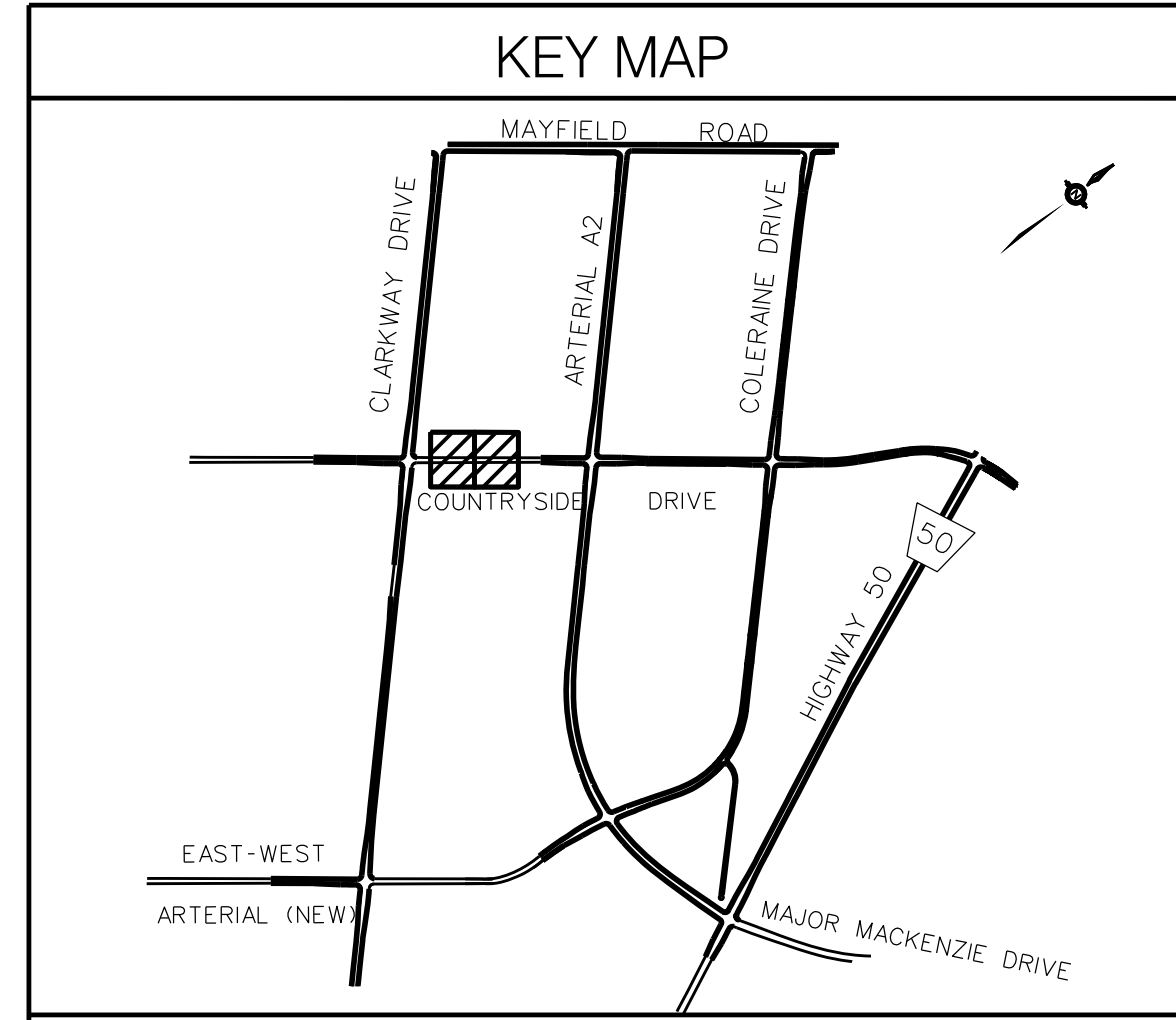
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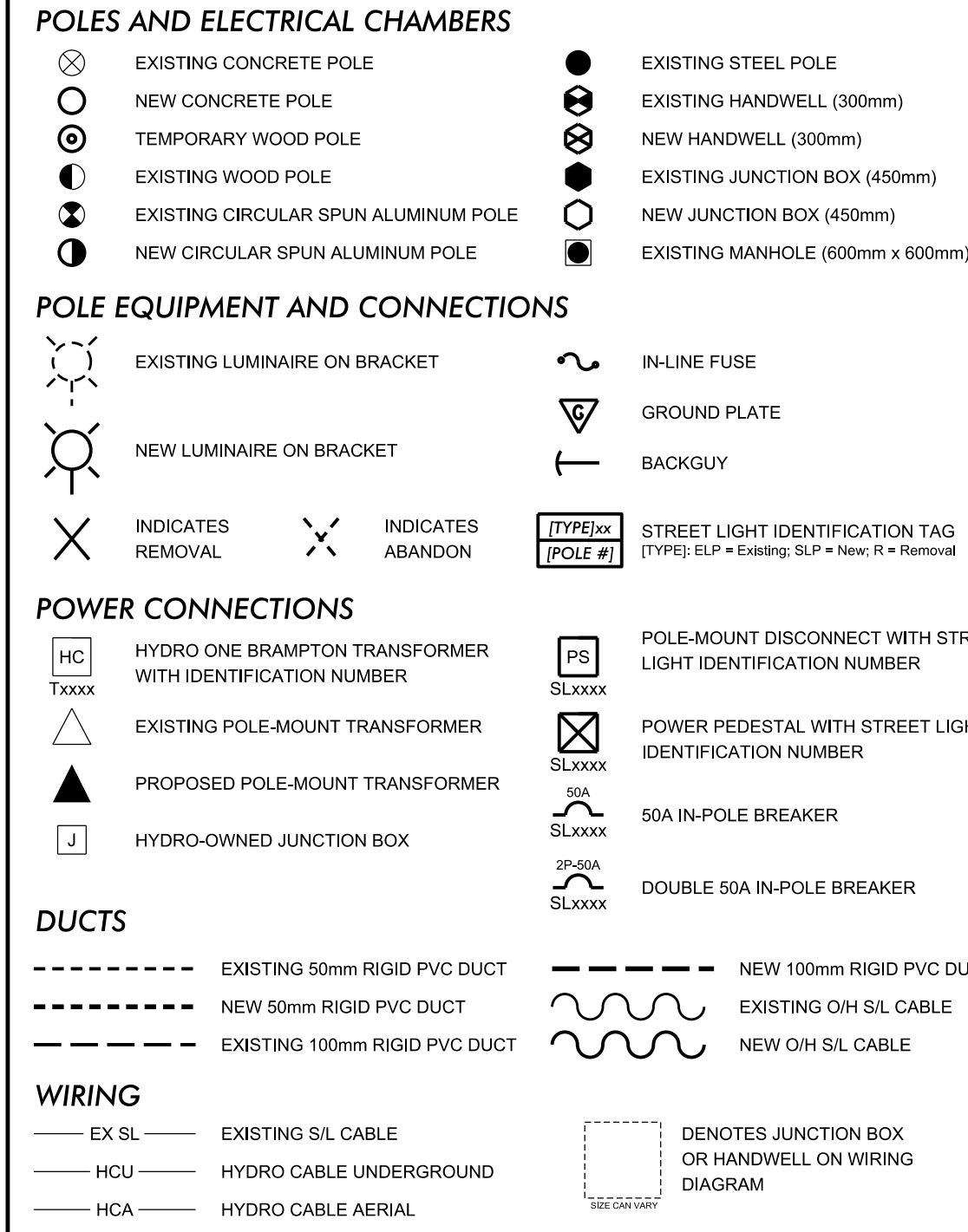




N1-10SL-XX



STREETLIGHT SYMBOLS LEGEND



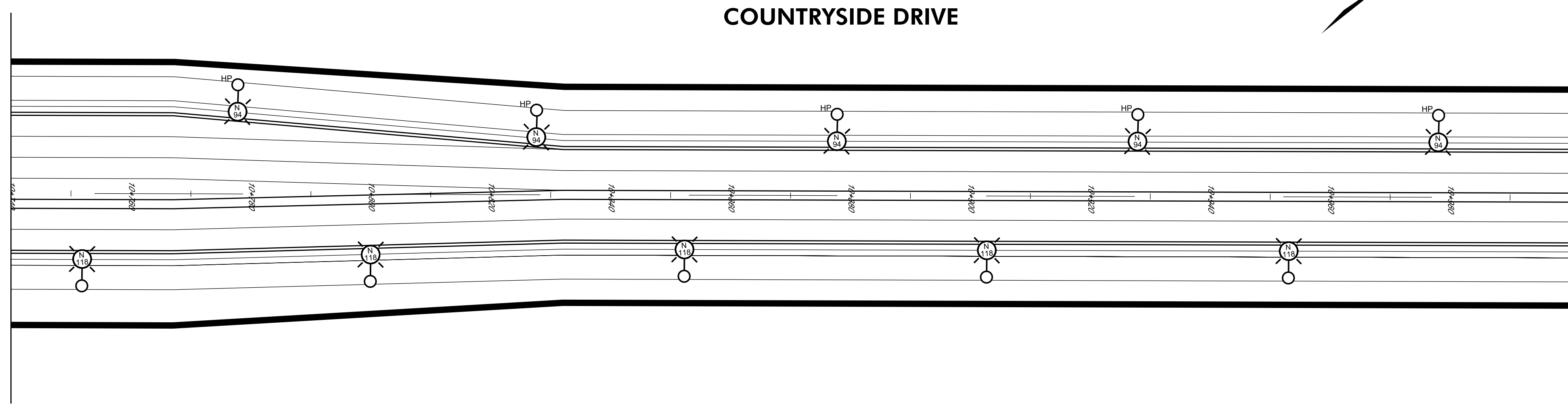
GENERAL NOTES

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NOTES

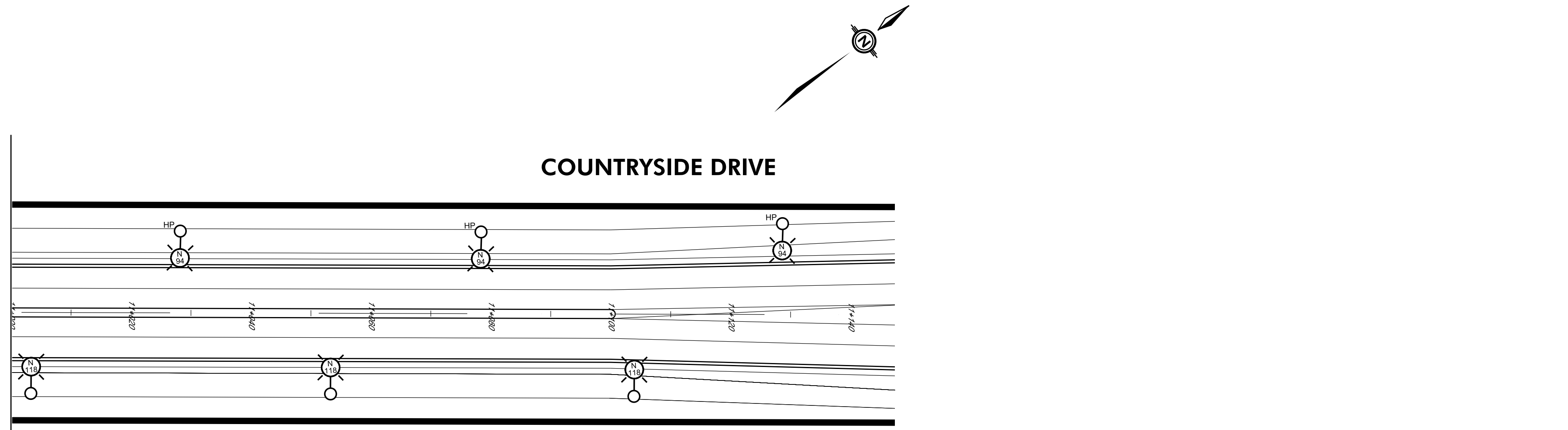
1. POLE AND LUMINAIRE TO BE INSTALLED AS PART OF THE TRAFFIC SIGNAL INSTALLATION. SHOWN FOR REFERENCE ONLY.

MATCHLINE STA. 11 + 740



MATCHLINE STA. 11 + 000

MATCHLINE STA. 11 + 000



STREET LIGHT POLE DETAILS

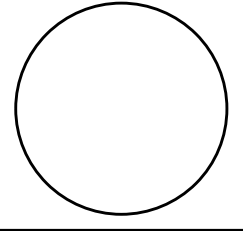
I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE				ARM & HEAD				GROUND ROD	IN-POLE BREAKER	
				TYPE / MATERIAL	HEIGHT	BRACKET	WATTAGE	HEIGHT	BRACKET	WATTAGE				

SCHEDULE OF APPROVALS

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DATE: DEC 14, 2021	APPROVAL: _____	
CONTRACT NO: 2013-012	APPROVAL DATE: _____	

**Moon-Matz Ltd.**  
Consulting Engineers

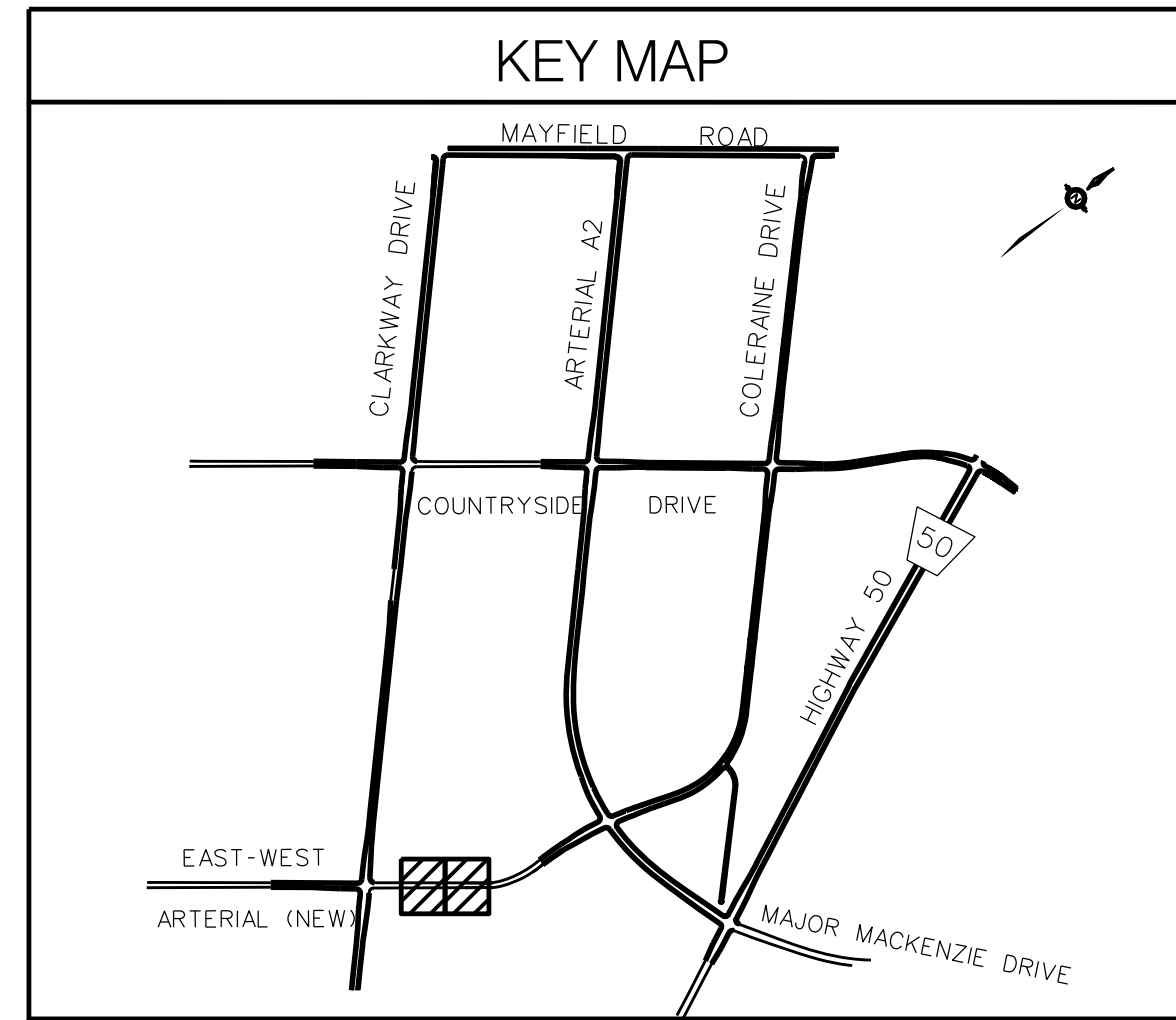


**BRAMPTON** Planning and Infrastructure Services  
Flower City  
Public Works  
brampton.ca

COUNTRYSIDE DRIVE  
CLARKWAY DRIVE TO ARTERIAL 42  
PROPOSED STREET LIGHTING - LAYOUT XXV

**DWG. NO.: N1-10SL-XX** | **SHT NO.: SL-26**

N1-10SL-XX



**STREETLIGHT SYMBOLS LEGEND**

**POLES AND ELECTRICAL CHAMBERS**

- EXISTING CONCRETE POLE
- NEW CONCRETE POLE
- TEMPORARY WOOD POLE
- EXISTING WOOD POLE
- EXISTING CIRCULAR SPUN ALUMINUM POLE
- NEW CIRCULAR SPUN ALUMINUM POLE
- EXISTING STEEL POLE
- EXISTING HANDWELL (300mm)
- NEW HANDWELL (300mm)
- EXISTING JUNCTION BOX (450mm)
- NEW JUNCTION BOX (450mm)
- EXISTING MANHOLE (600mm x 600mm)

**POLE EQUIPMENT AND CONNECTIONS**

- EXISTING LUMINAIRE ON BRACKET
- NEW LUMINAIRE ON BRACKET
- INDICATES REMOVAL
- INDICATES ABANDON
- IN-LINE FUSE
- GROUND PLATE
- BACKGUY
- STREET LIGHT IDENTIFICATION TAG (TYPE: SLP - Existing, SLR - New, R - Removal)

**POWER CONNECTIONS**

- HYDRO ONE BRAMPTON TRANSFORMER WITH IDENTIFICATION NUMBER
- EXISTING POLE-MOUNT TRANSFORMER
- PROPOSED POLE-MOUNT TRANSFORMER
- HYDRO-OWNED JUNCTION BOX
- POLE-MOUNT DISCONNECT WITH STREET LIGHT IDENTIFICATION NUMBER
- POWER PEDESTAL WITH STREET LIGHT IDENTIFICATION NUMBER
- 50A IN-POLE BREAKER
- DOUBLE 50A IN-POLE BREAKER

**DUCTS**

- EXISTING 50mm RIGID PVC DUCT
- NEW 50mm RIGID PVC DUCT
- EXISTING 100mm RIGID PVC DUCT
- NEW 100mm RIGID PVC DUCT
- EXISTING O/H SIL CABLE
- NEW O/H SIL CABLE

**WIRING**

- EX SL - EXISTING SIL CABLE
- HCU - HYDRO CABLE UNDERGROUND
- HCA - HYDRO CABLE AERIAL
- DENOTES JUNCTION BOX OR HANDWELL ON WIRING DIAGRAM

**GENERAL NOTES**

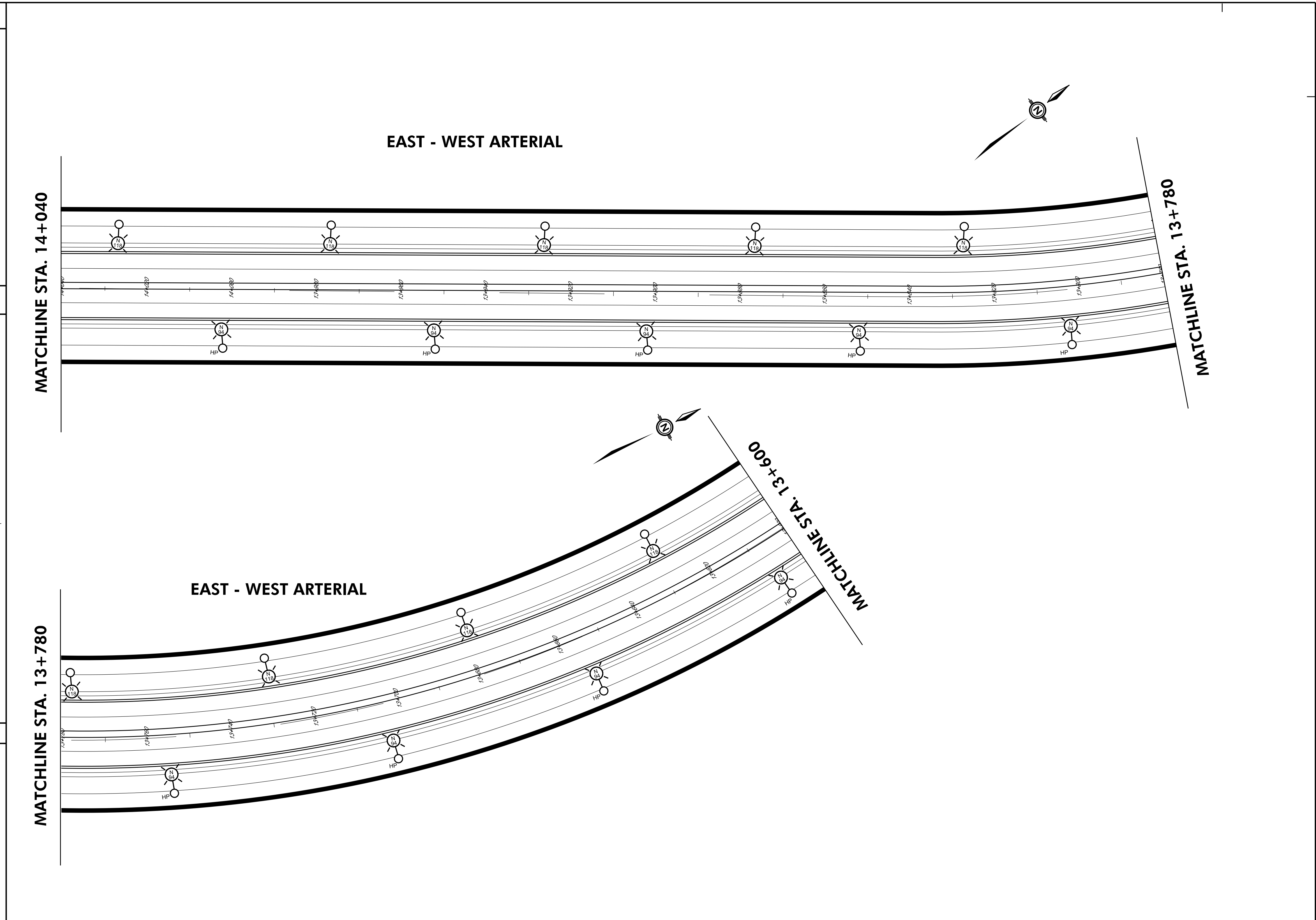
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**NOTES**

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**STREET LIGHT POLE DETAILS**

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE				ARM & HEAD				GROUND ROD	IN-POLE BREAKER	
				TYPE / MATERIAL	HEIGHT	BRACKET	WATTAGE	TYPE / MATERIAL	HEIGHT	BRACKET	WATTAGE			

**SCHEDULE OF APPROVALS**

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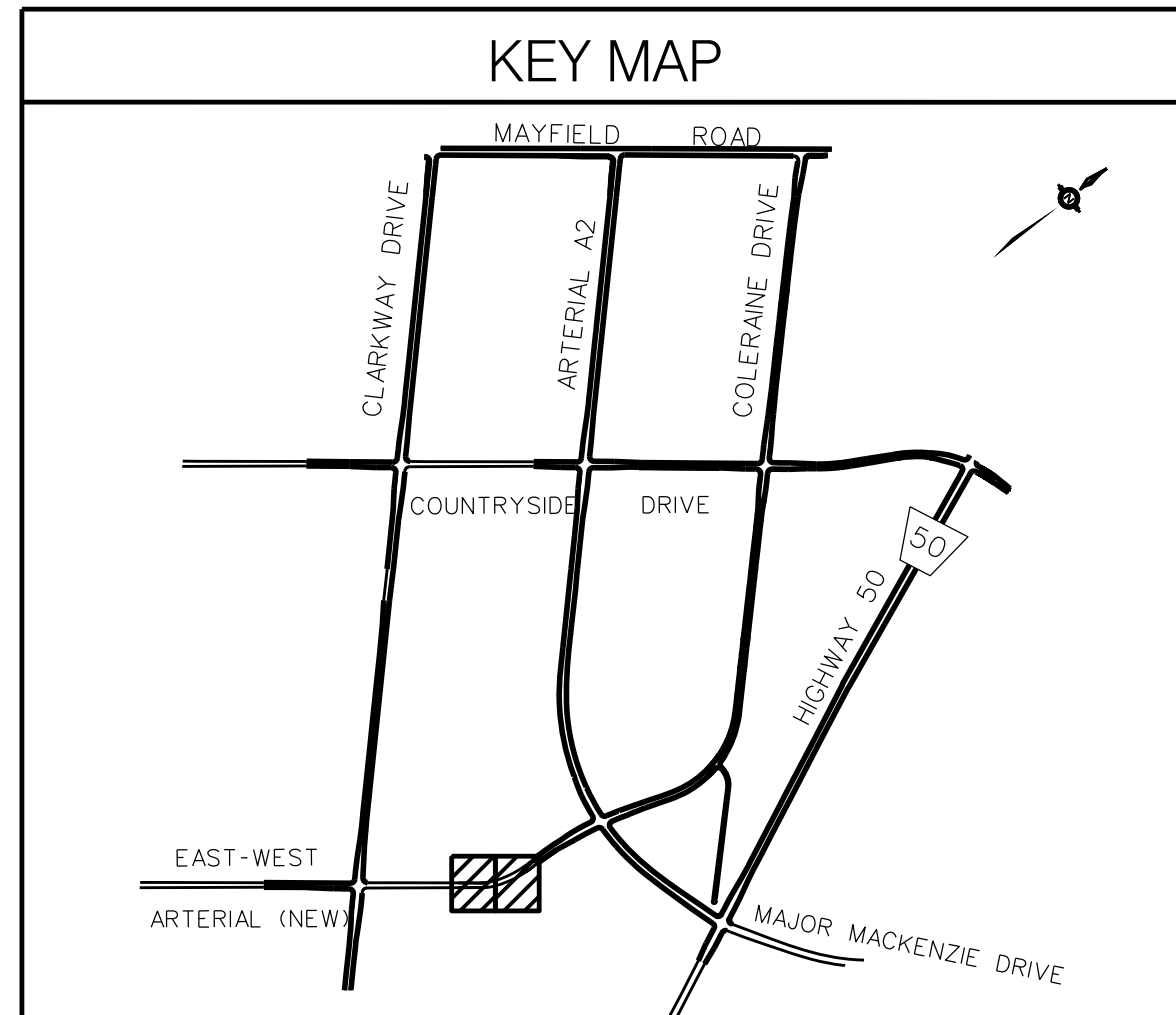
CONTRACT NO: 2013-012      APPROVAL DATE: \_\_\_\_\_

**BRAMPTON** Planning and Infrastructure Services  
Flower City Public Works

EAST - WEST ARTERIAL  
CLARKWAY DRIVE TO ARTERIAL A2  
PROPOSED STREET LIGHTING - LAYOUT XXVI

**DWG. NO.: N1-10SL-XX    SHT NO.: SL-27**

N1-10SL-XX



### STREETLIGHT SYMBOLS LEGEND

**POLES AND ELECTRICAL CHAMBERS**

- Existing Concrete Pole
- New Concrete Pole
- Temporary Wood Pole
- Existing Wood Pole
- Existing Circular Spun Aluminum Pole
- New Circular Spun Aluminum Pole
- Existing Steel Pole
- Existing Handwell (300mm)
- New Handwell (300mm)
- Existing Junction Box (450mm)
- New Junction Box (450mm)
- Existing Manhole (600mm x 600mm)

**POLE EQUIPMENT AND CONNECTIONS**

- Existing Luminaire on Bracket
- New Luminaire on Bracket
- Indicates Removal
- Indicates Abandon
- In-Line Fuse
- Ground Plate
- Backguy
- Street Light Identification Tag (Type, Pole #)

**POWER CONNECTIONS**

- Hydro One Brampton Transformer with Identification Number
- Existing Pole-Mount Transformer
- Proposed Pole-Mount Transformer
- Hydro-Owned Junction Box
- Pole-Mount Disconnect with Street Light Identification Number
- Power Pedestal with Street Light Identification Number
- 50A In-Pole Breaker
- Double 50A In-Pole Breaker

**DUCTS**

- Existing 50mm Rigid PVC Duct
- New 50mm Rigid PVC Duct
- Existing 100mm Rigid PVC Duct
- New 100mm Rigid PVC Duct
- Existing O/H SIL Cable
- New O/H SIL Cable

**WIRING**

- Existing SIL Cable
- Hydro Cable Underground (HCU)
- Hydro Cable Aerial (HCA)
- Denotes Junction Box or Handwell on Wiring Diagram

### GENERAL NOTES

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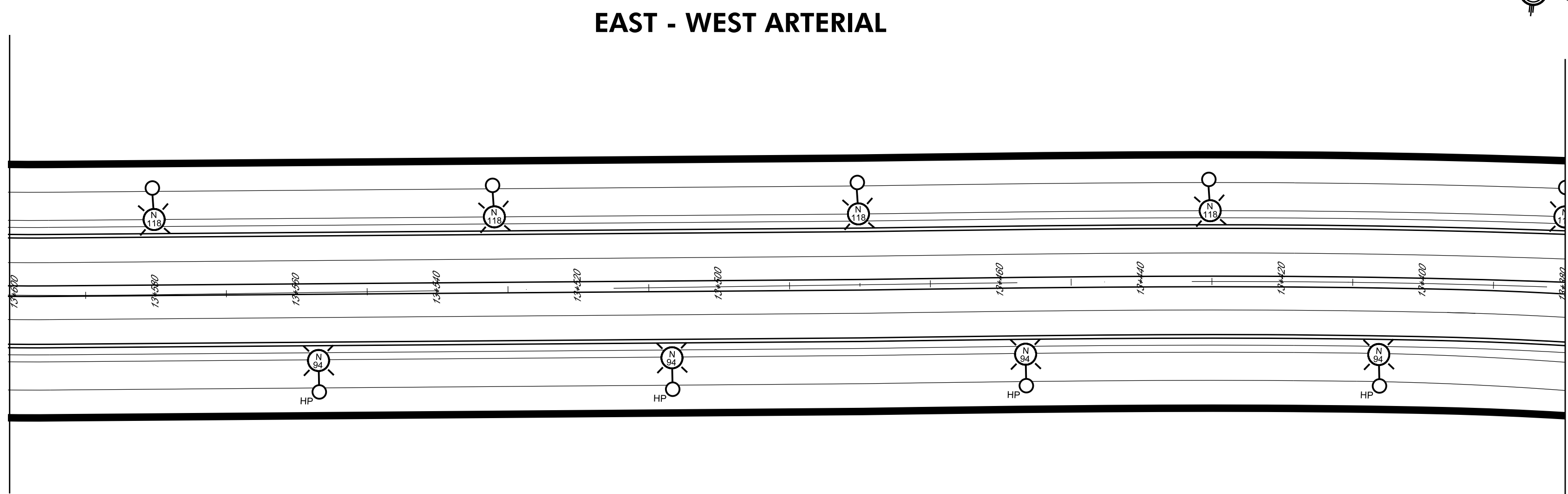
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### NOTES

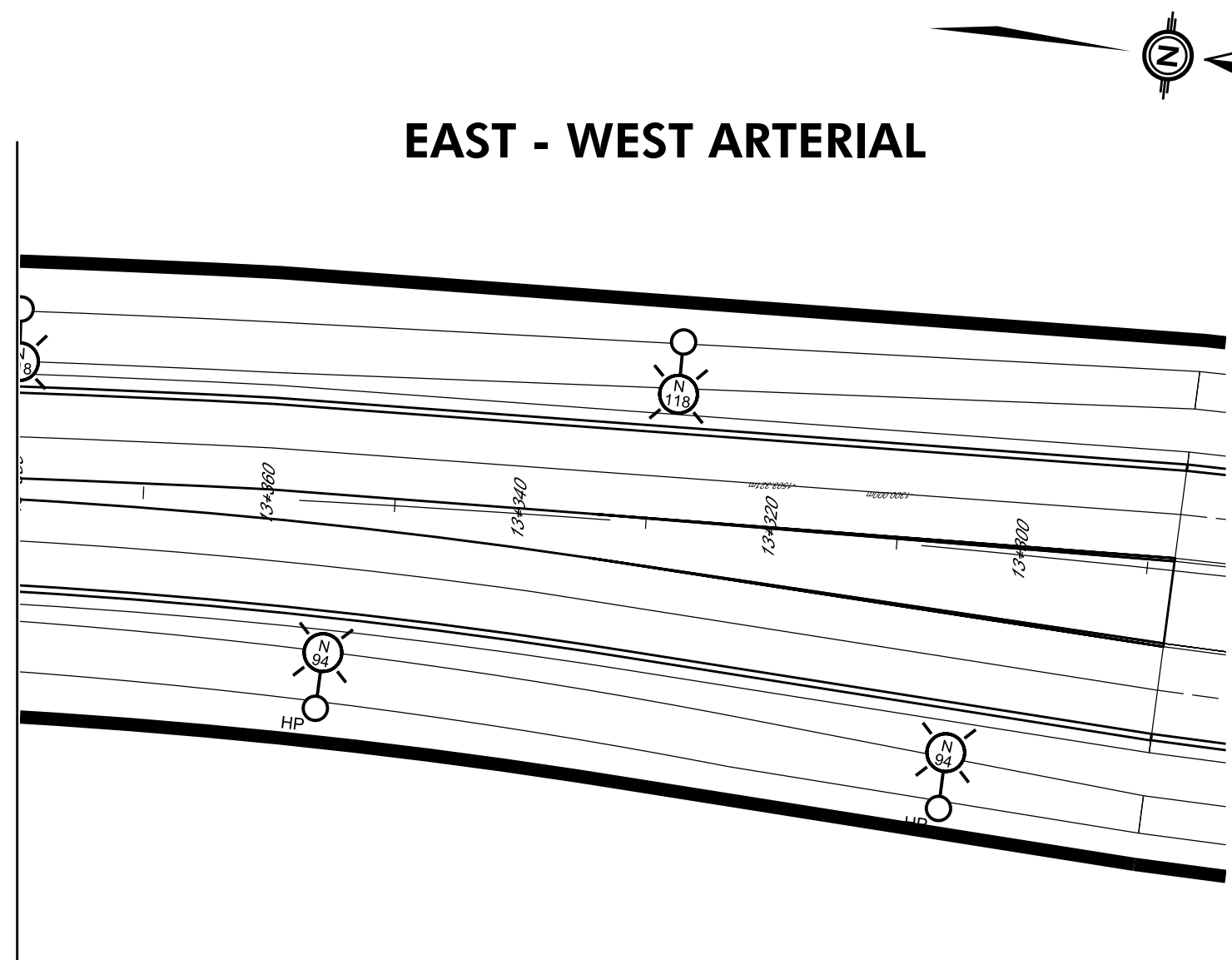
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MATCHLINE STA. 13+600



MATCHLINE STA. 13+380

MATCHLINE STA. 13+380



### STREET LIGHT POLE DETAILS

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE				ARM & HEAD				GROUND ROD	IN-POLE BREAKER
				TYPE / MATERIAL	HEIGHT	BRACKET	WATTAGE	HEIGHT	WATTAGE				

### SCHEDULE OF APPROVALS

NO.	DATE	BY	DESCRIPTION	CHECKED BY
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SCALE: 1 : 500

DESIGNED BY: M.M.      CHECKED BY: M.M.

DATE: DEC 14, 2021      APPROVAL: \_\_\_\_\_

CONTRACT NO: 2013-012      APPROVAL DATE: \_\_\_\_\_

**BRAMPTON**  
Flower City  
Planning and Infrastructure Services  
Public Works

EAST - WEST ARTERIAL  
CLARKWAY DRIVE TO ARTERIAL A2  
PROPOSED STREET LIGHTING - LAYOUT XXVII

**DWG. NO.: N1-10SL-XX      SHT NO.: SL-28**