

APPENDIX

R STREETLIGHTING DESIGN

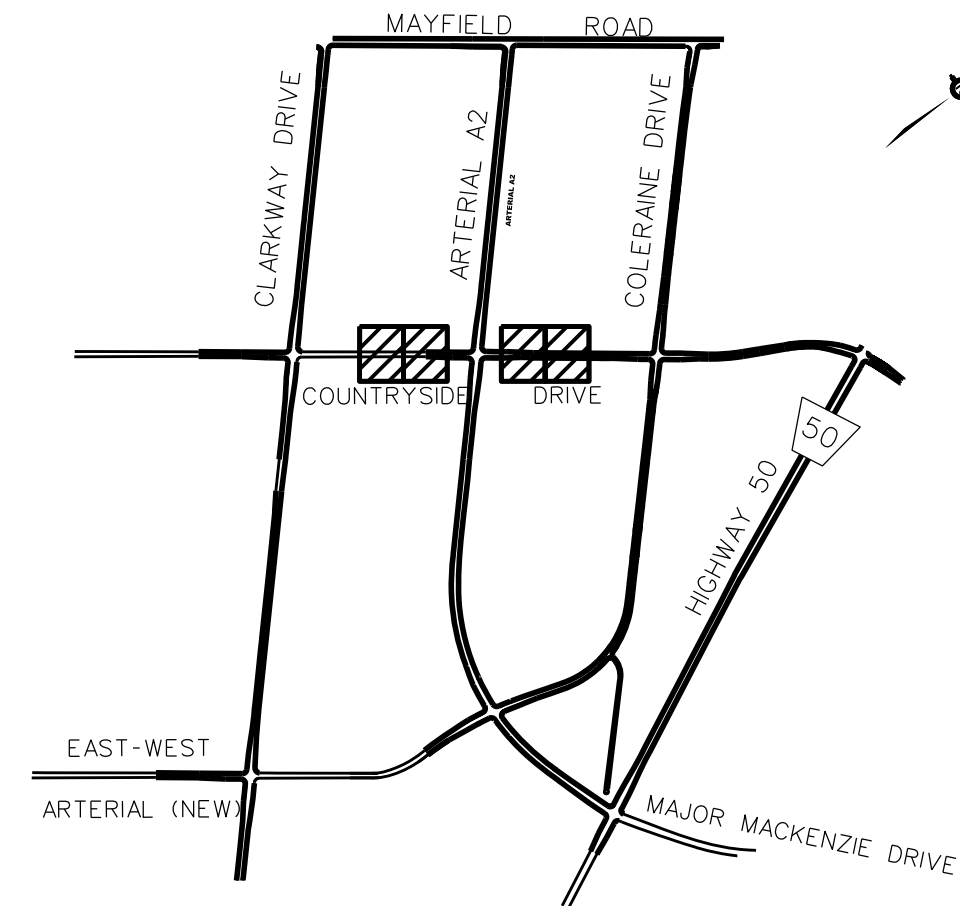


APPENDIX

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

- EX SL - EXISTING SIL CABLE
- HCU - HYDRO CABLE UNDERGROUND
- HCA - 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.

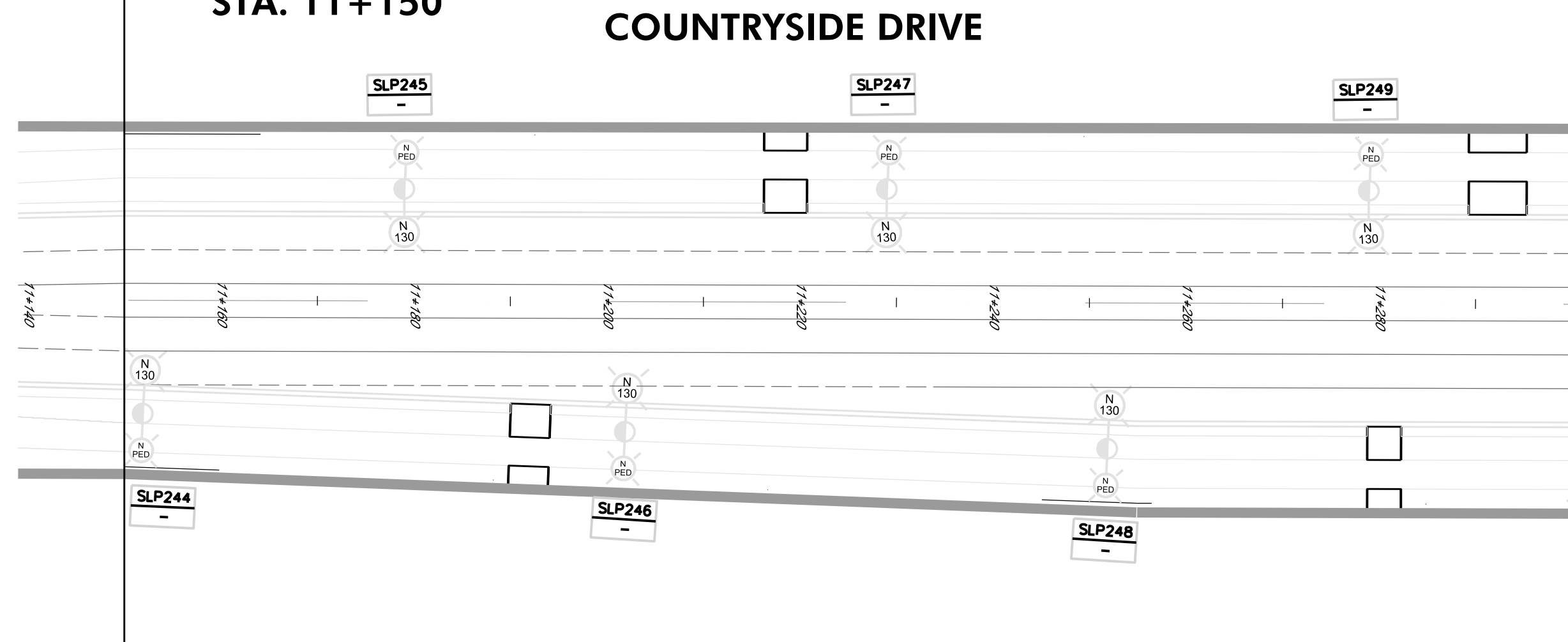
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ALL WORK TO BE COORDINATED WITH CITY OF BRAMPTON REPRESENTATIVE.

NOTES

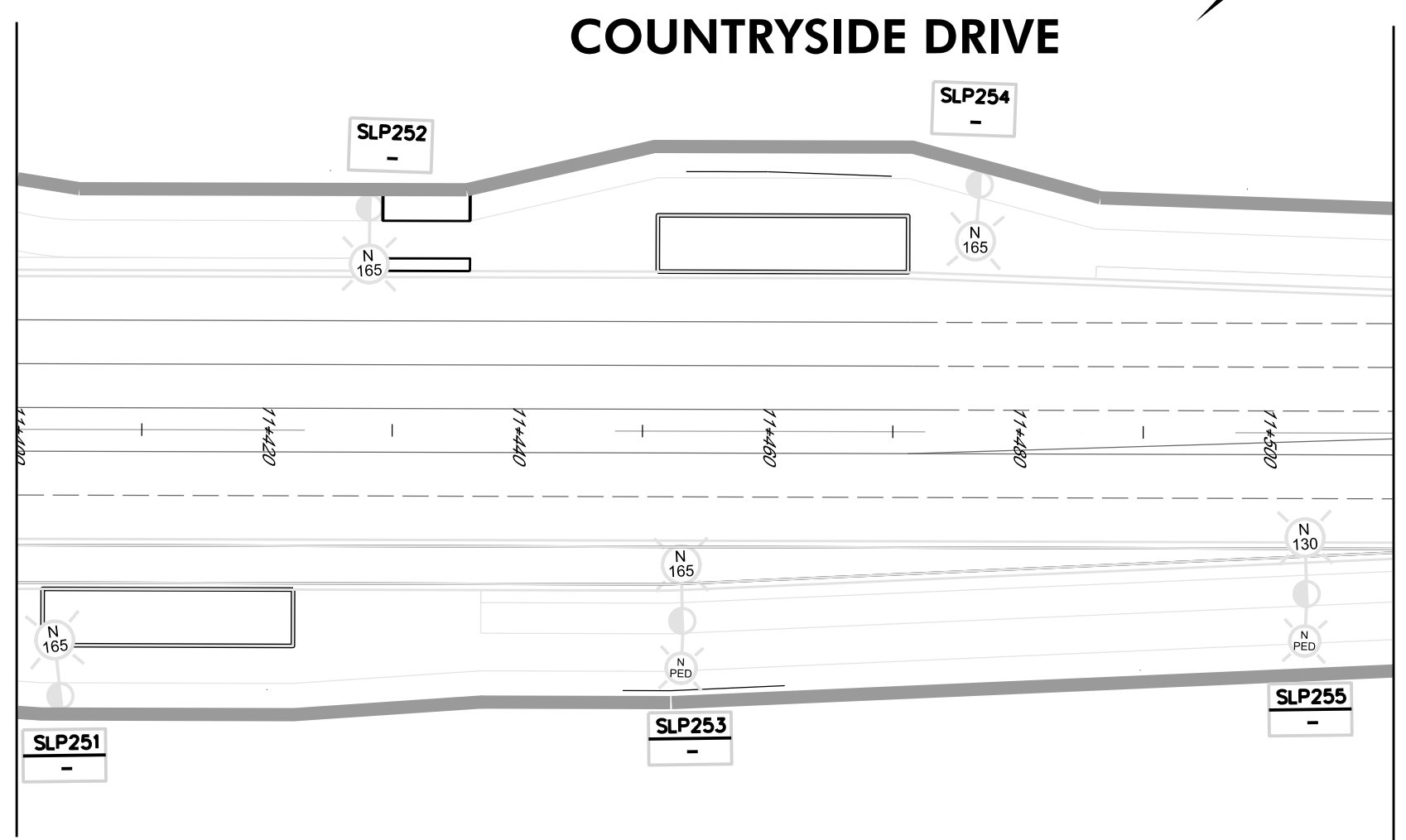
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LIMIT OF ELECTRICAL WORK
STA. 11+150



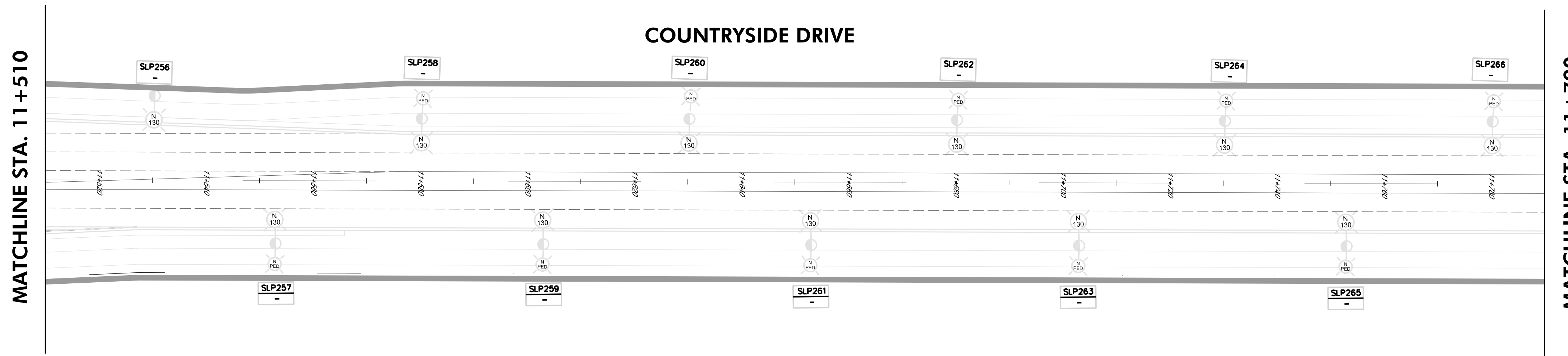
MATCHLINE STA. 11+300

MATCHLINE STA. 11+400



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

SCHEDULE OF APPROVALS

NO.	DATE	BY	DESCRIPTION	CHECKED BY
1	JULY 16/21	NM	ISSUED FOR 30% REVIEW	CV
2	DEC 14/21	VS	ISSUED FOR FINAL PRELIMINARY	MM
3	JUNE 29/22	VS	RE-ISSUED FOR FINAL PRELIMINARY	MM

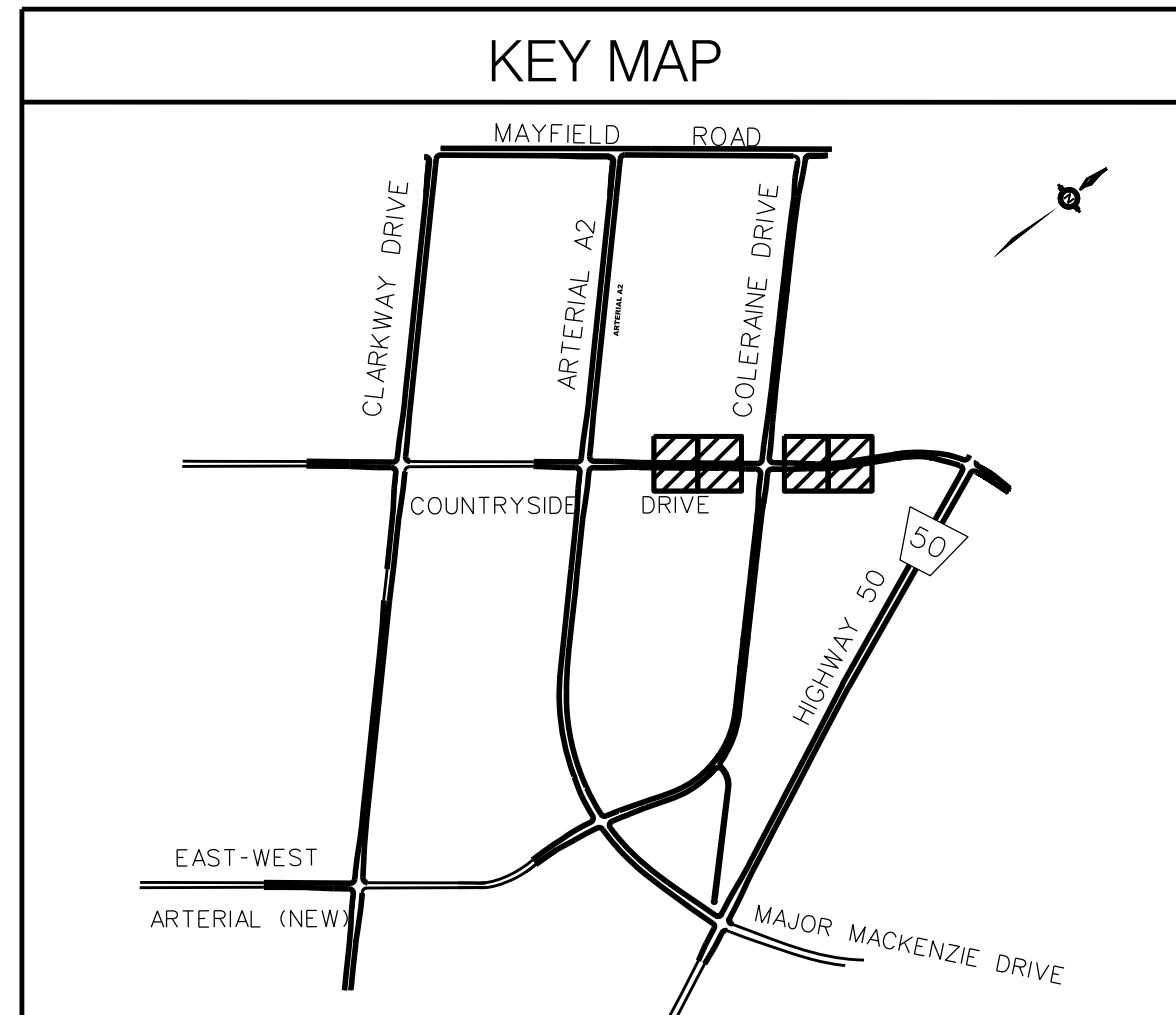
SCALE: 1 : 500 DESIGNED BY: M.M. CHECKED BY: M.M.

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

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	⊕	BACKGUY
×	INDICATES ABANDON	[TYPE][POLE #]	STREET LIGHT IDENTIFICATION TAG (TYPE: EP=Existing, SLP=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	50A IN-POLE BREAKER
J	HYDRO-OWNED JUNCTION BOX	50-50A	DOUBLE 50A IN-POLE BREAKER

DUCTS

---	EXISTING 50mm RIGID PVC DUCT	---	NEW 100mm RIGID PVC DUCT
---	NEW 50mm RIGID PVC DUCT	---	EXISTING O/H SIL CABLE
---	EXISTING 100mm RIGID PVC DUCT	---	NEW O/H 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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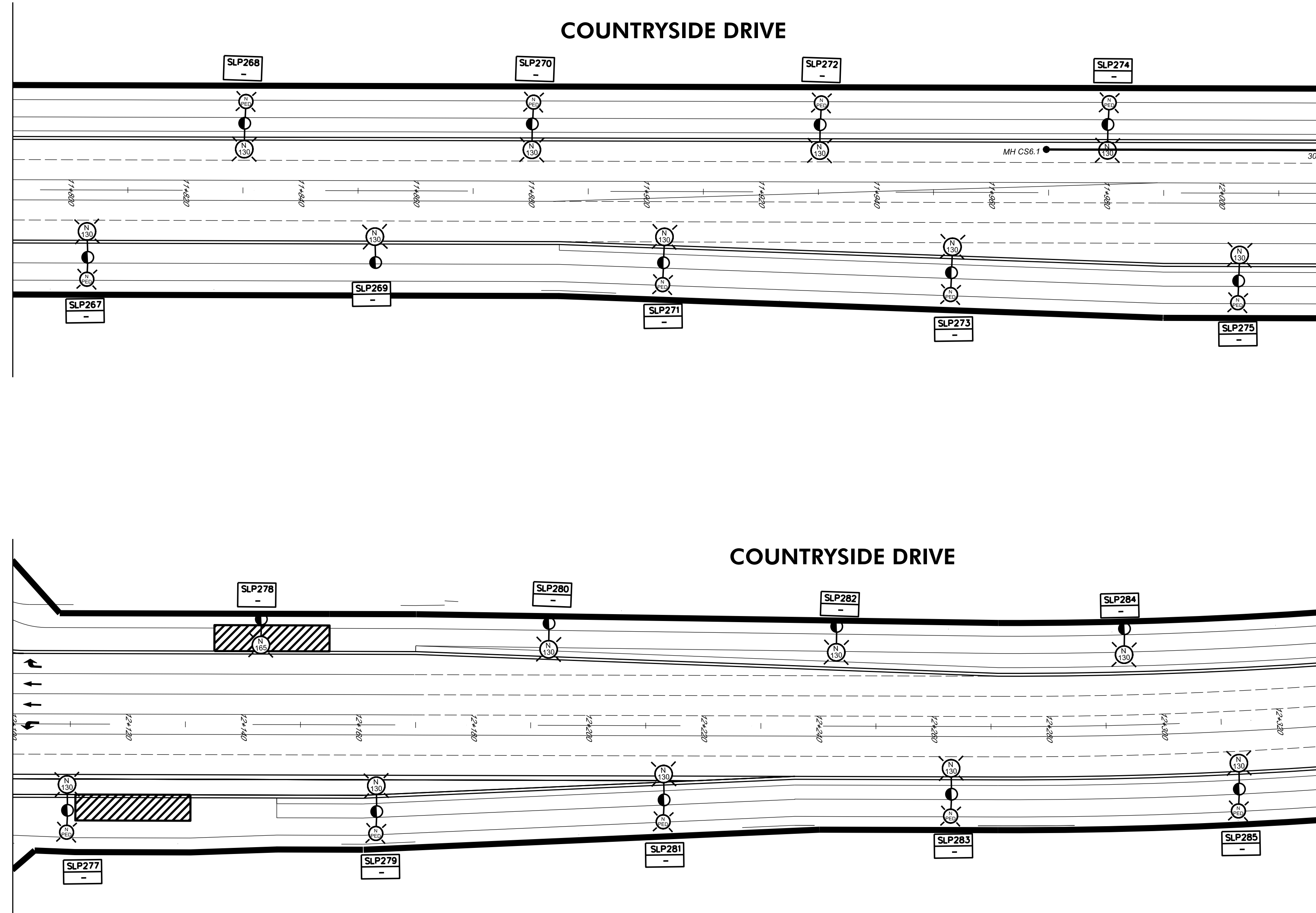
ALL WORK TO BE COORDINATED WITH CITY OF BRAMPTON REPRESENTATIVE.

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	ROD	ROD			

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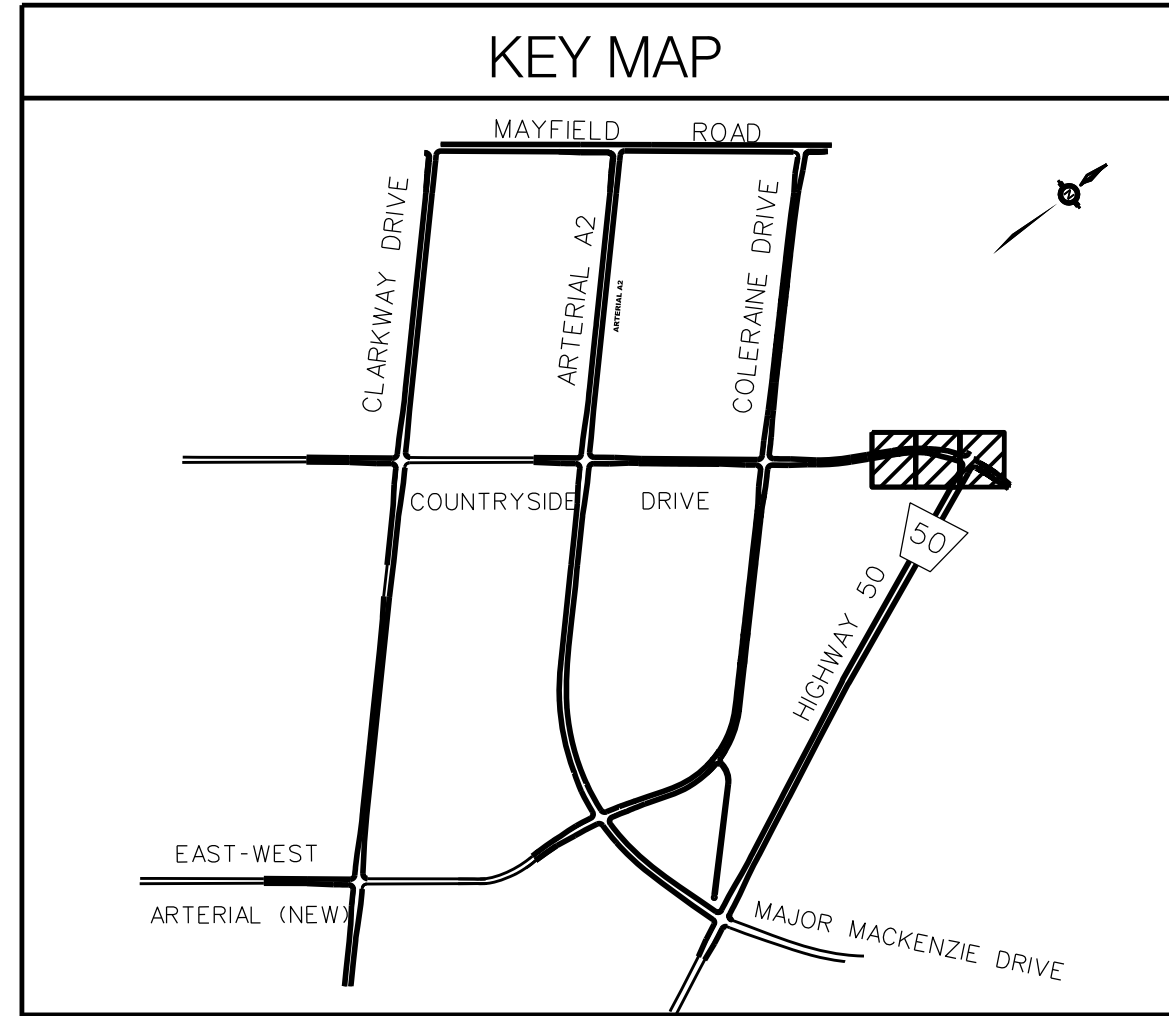
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COUNTRYSIDE DRIVE
CLARKWAY DRIVE TO COLERAINE DRIVE
PROPOSED STREET LIGHTING - LAYOUT XIV

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: SLP - Existing, SLP - 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 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

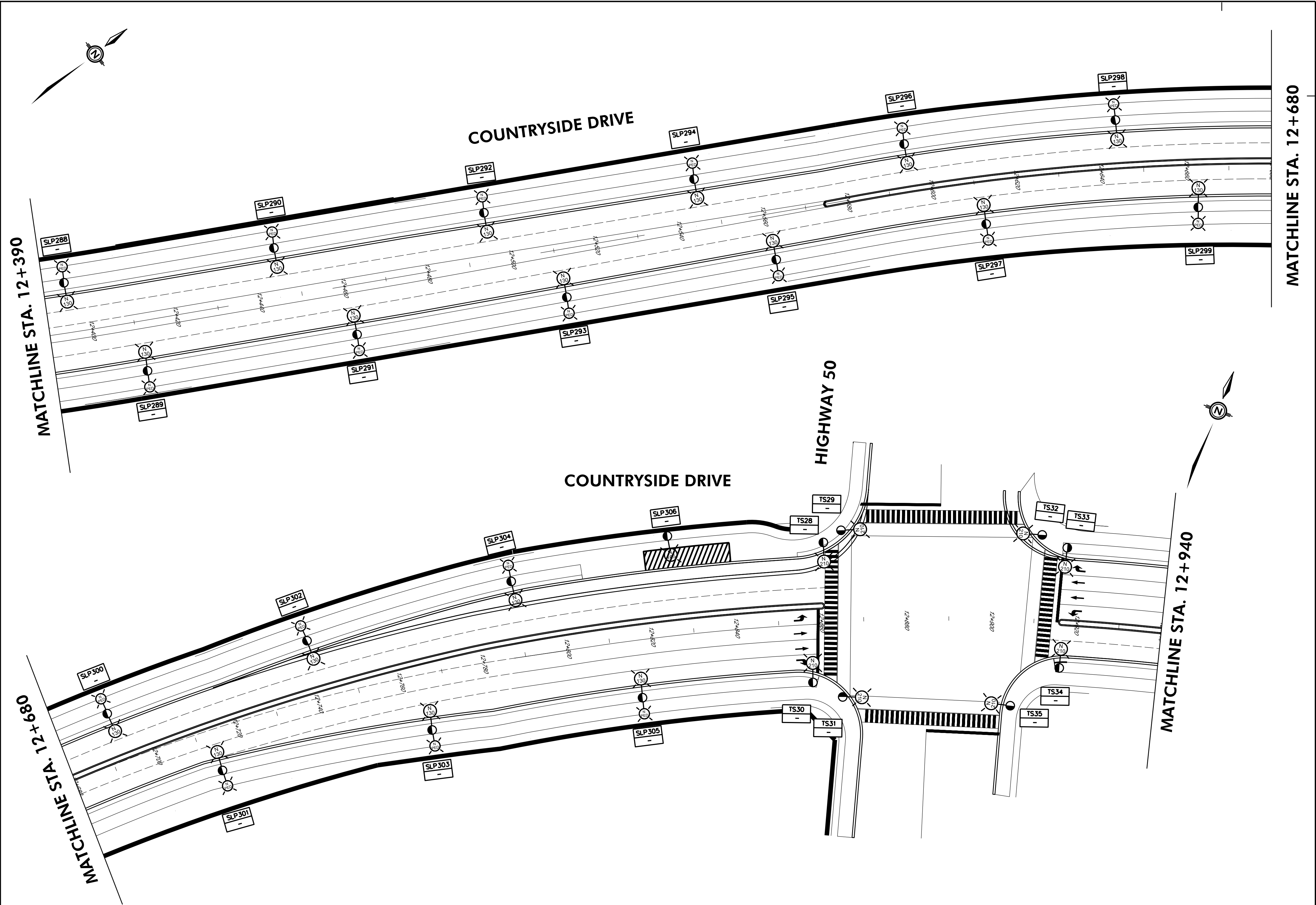
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STREET LIGHT POLE DETAILS

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

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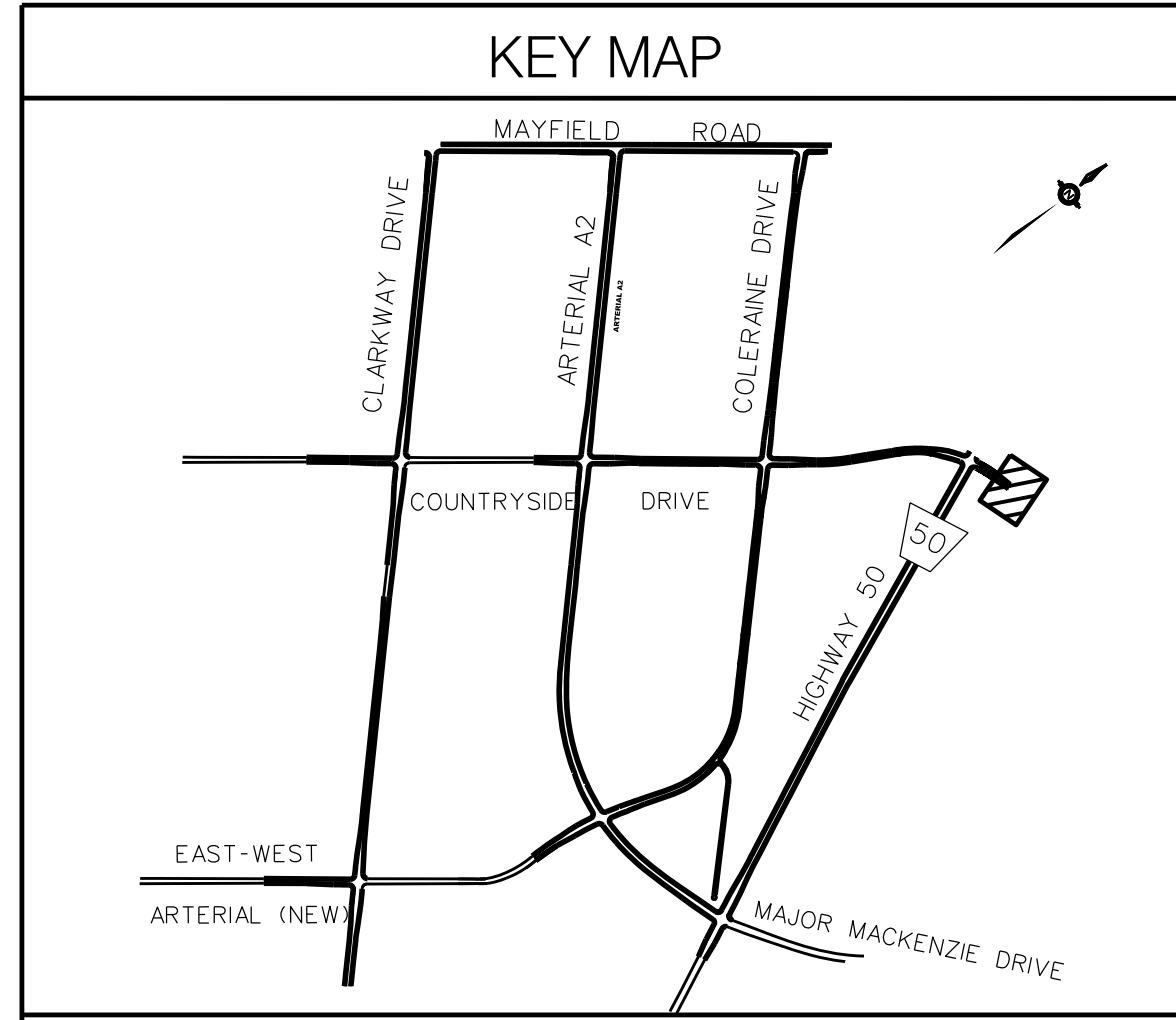
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 CHECKED BY: M.M.
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 APPROVAL:
 CONTRACT NO: 2013-012
 APPROVAL DATE:



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

DWG. NO.: N1-10SL-XX SHT NO.: SL-16

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

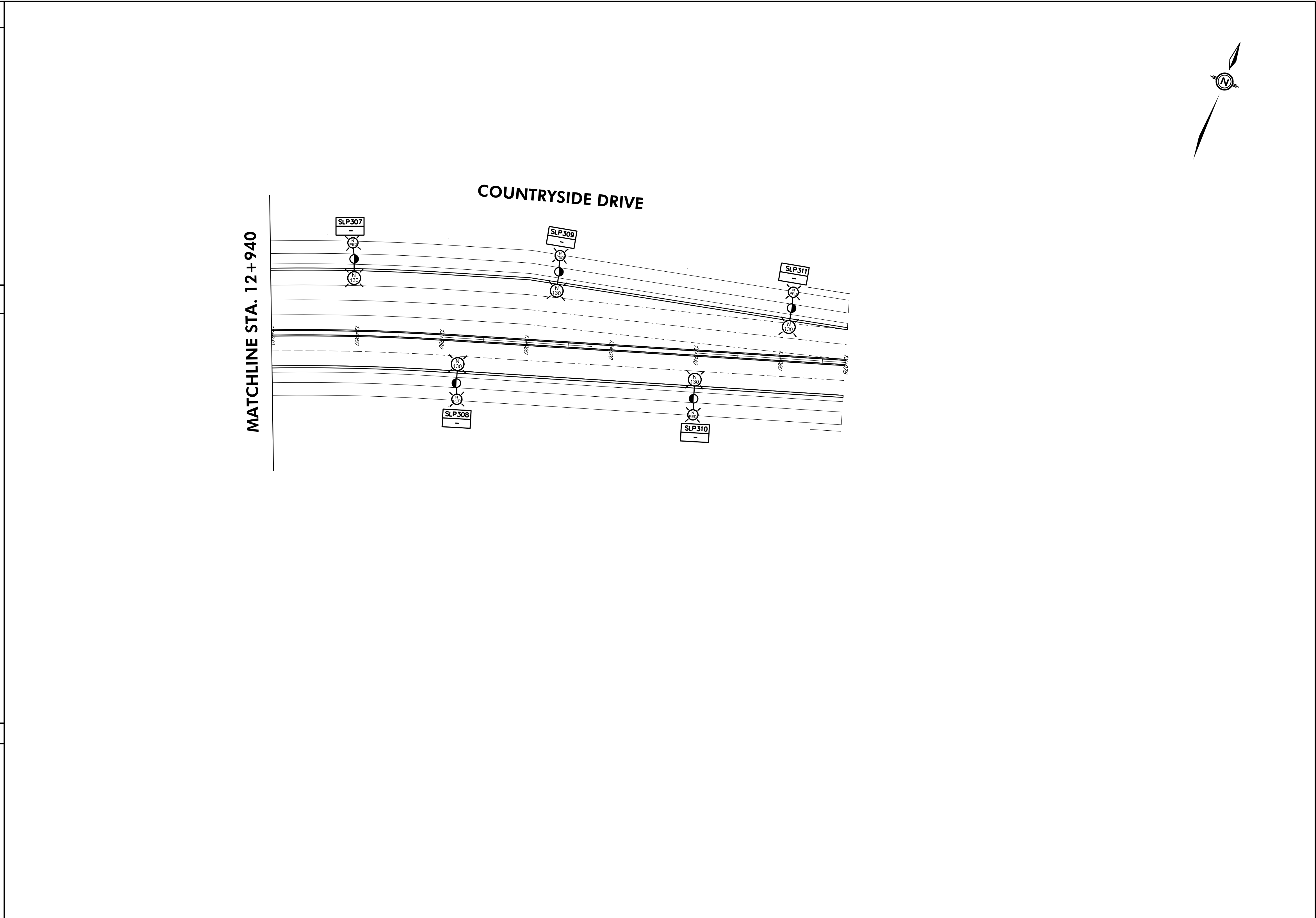
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STREET LIGHT POLE DETAILS

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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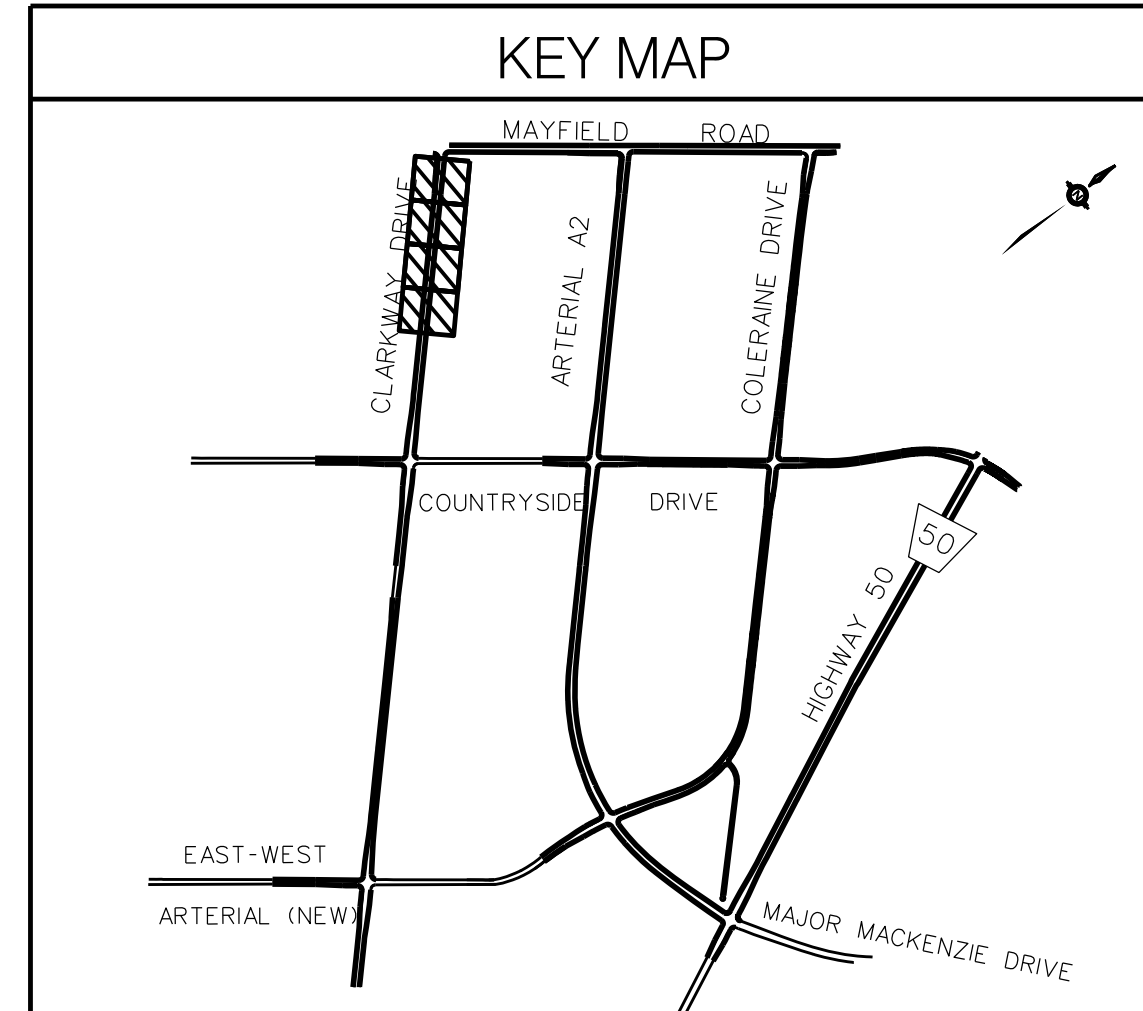
Moon-Matz Ltd.
Consulting Engineers

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



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
- In-Line Fuse
- Ground Plate
- Backguy
- Indicates Removal
- Indicates Abandon
- Street Light Identification Tag (Type: ELP = Existing, SLP = 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 OH S/L Cable
- New OH S/L Cable

WIRING

- EX S/L - Existing S/L Cable
- HCU - Hydro Cable Underground
- HCA - Hydro Cable Aerial
- Denotes Junction Box or Handwell on Wiring Diagram

GENERAL NOTES

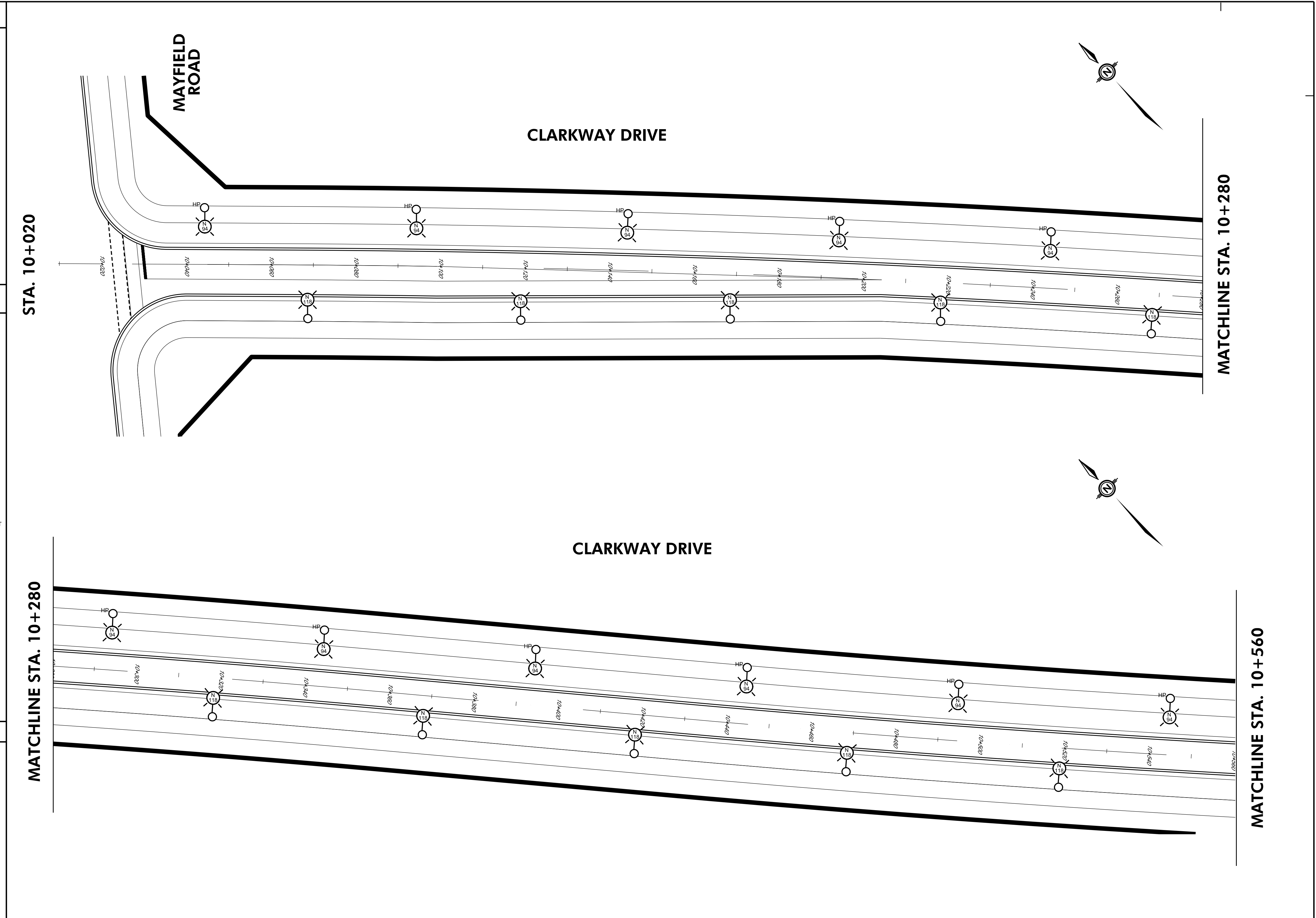
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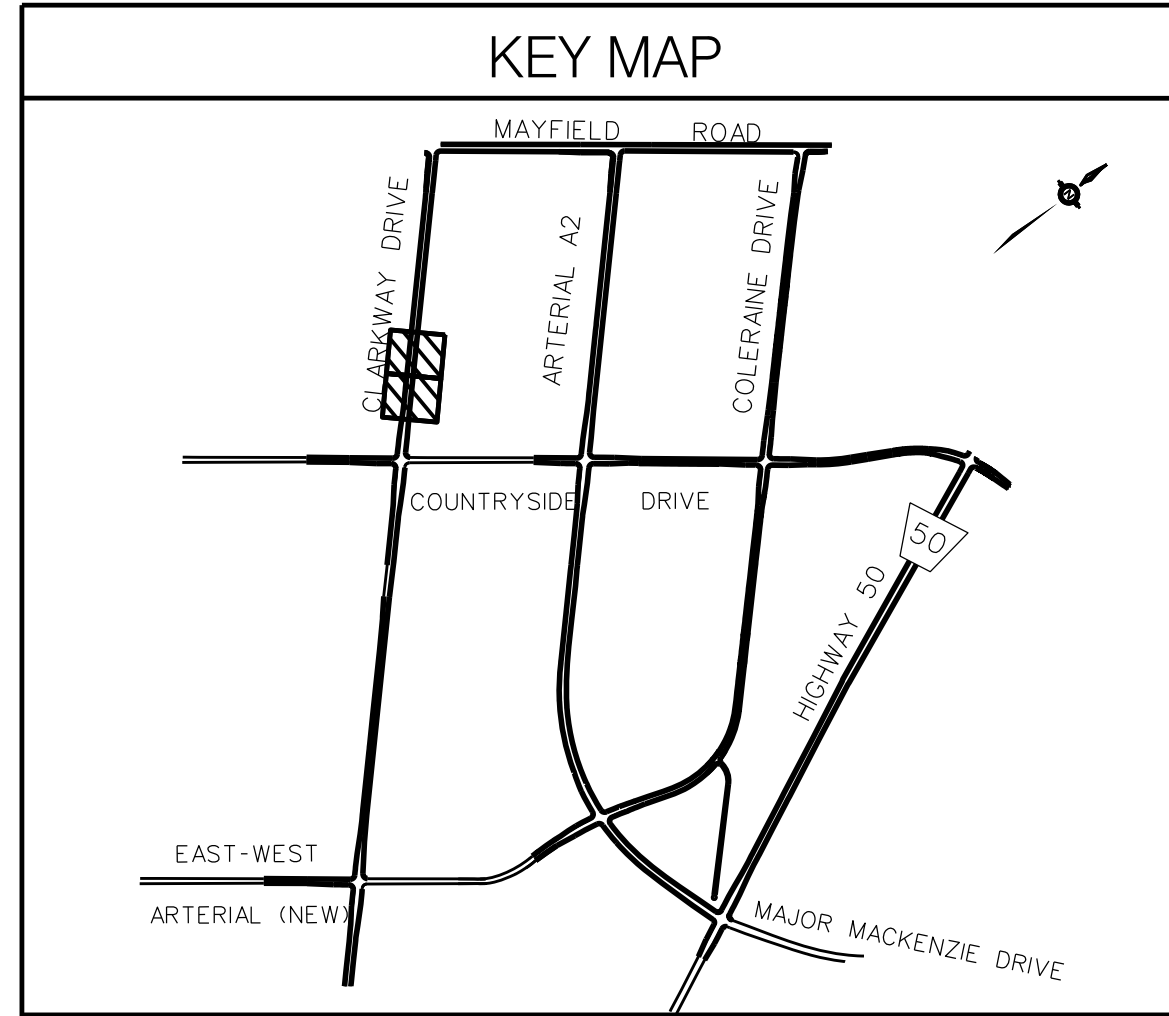
Moon-Matz Ltd.
Consulting Engineers

BRAMPTON Flower City
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



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	⌋	BACKGUY
⌋	INDICATES ABANDON	⌋	STREET LIGHT IDENTIFICATION TAG

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	⊗ SLxxxx	POWER PEDESTAL WITH STREET LIGHT IDENTIFICATION NUMBER
▲	PROPOSED POLE-MOUNT TRANSFORMER	⊗ SLxxxx	50A IN-POLE BREAKER
J	HYDRO-OWNED JUNCTION BOX	⊗ SLxxxx	DOUBLE 50A IN-POLE BREAKER

DUCTS

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

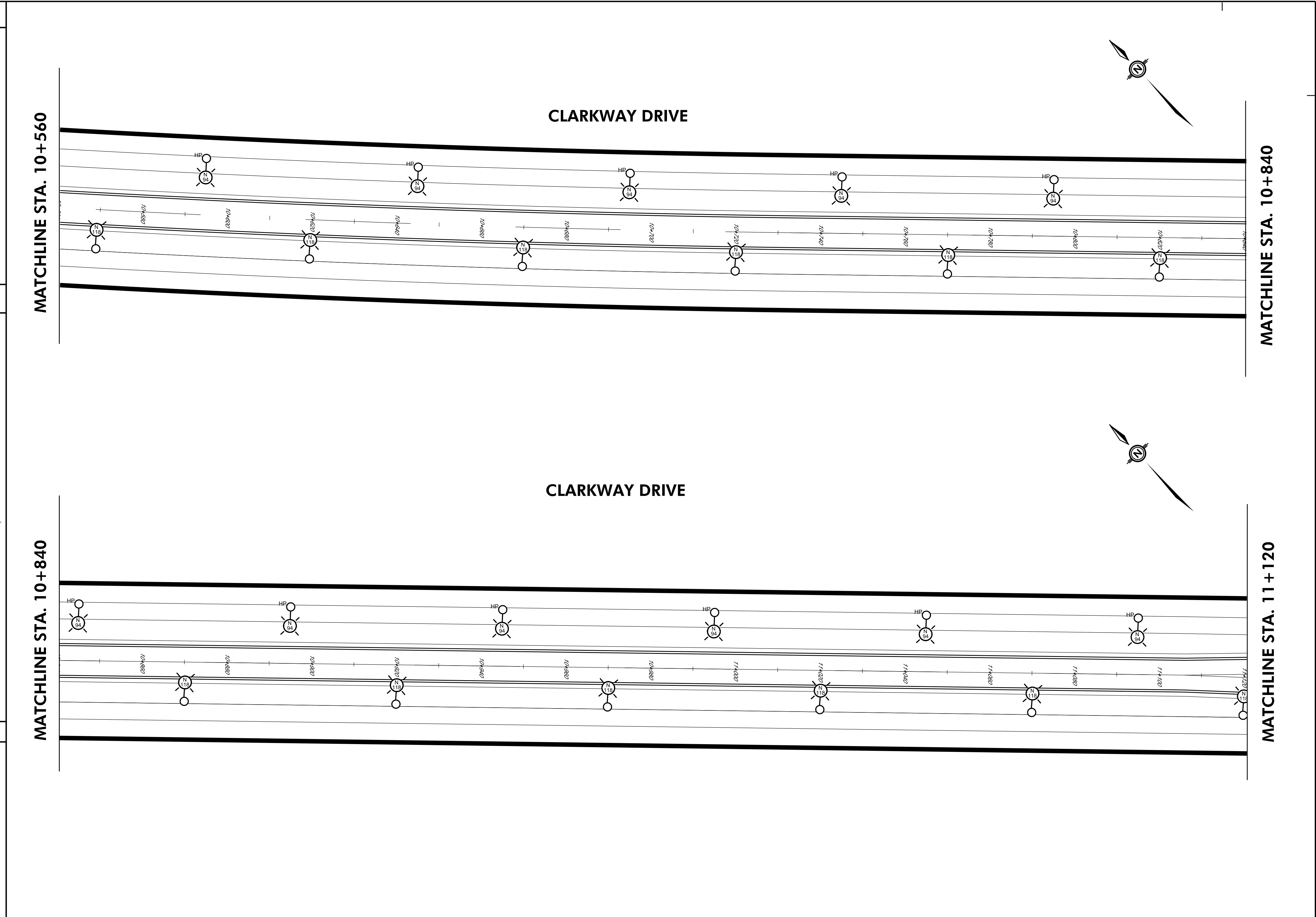
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STREET LIGHT POLE DETAILS

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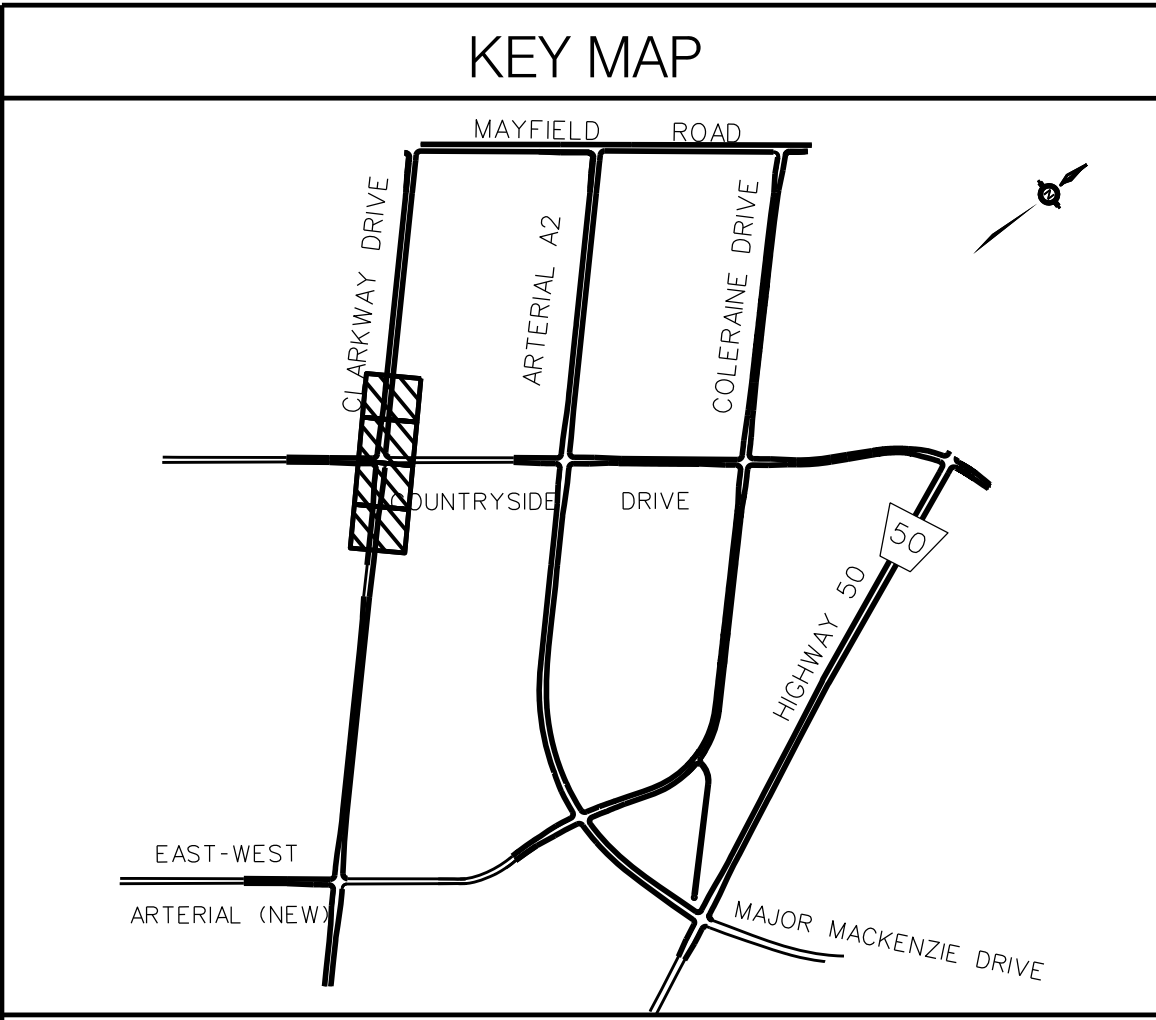
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Moon-Matz Ltd.
Consulting Engineers

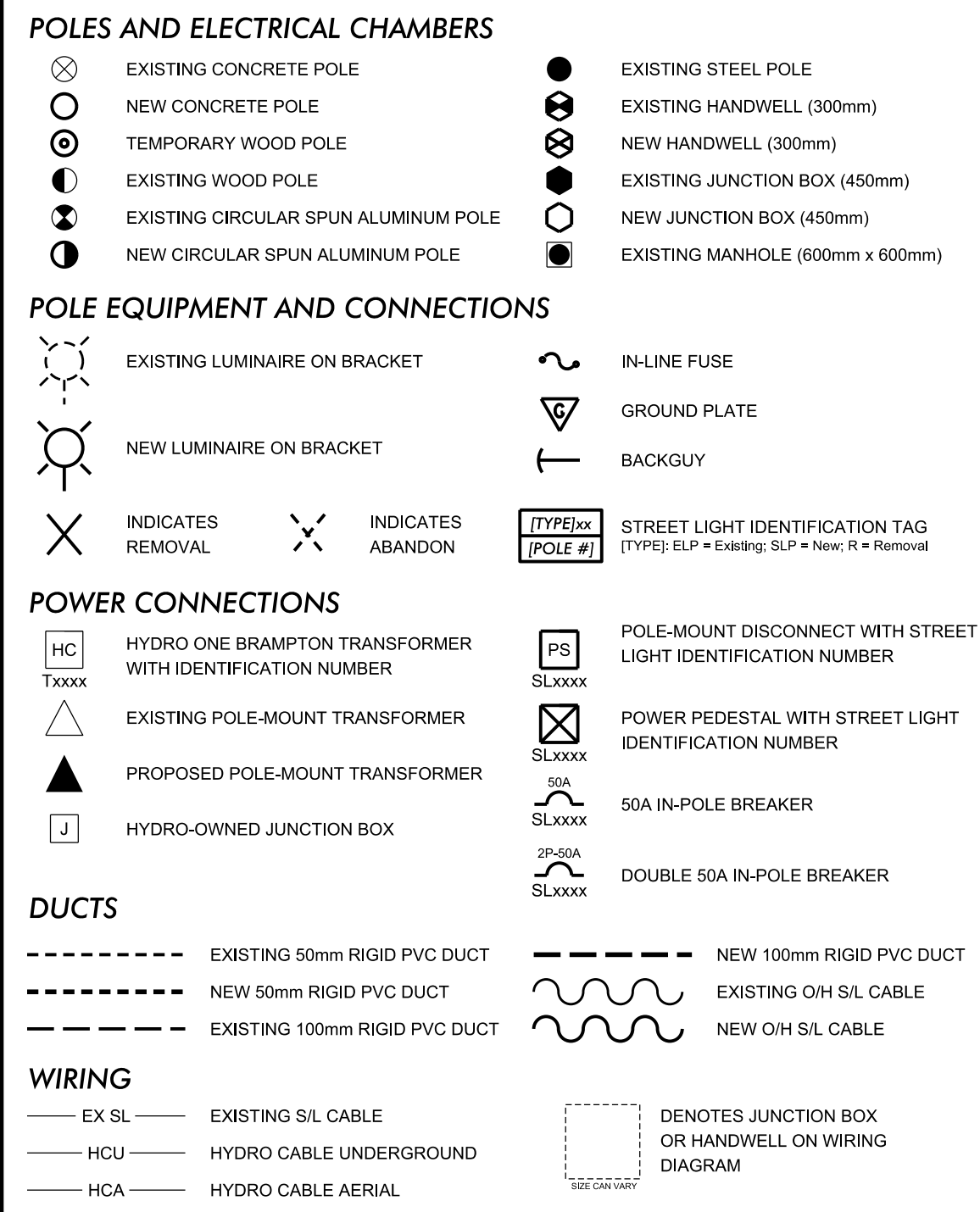
BRAMPTON Flower City Planning and Infrastructure Services
Public Works

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

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



STREETLIGHT SYMBOLS LEGEND



GENERAL NOTES

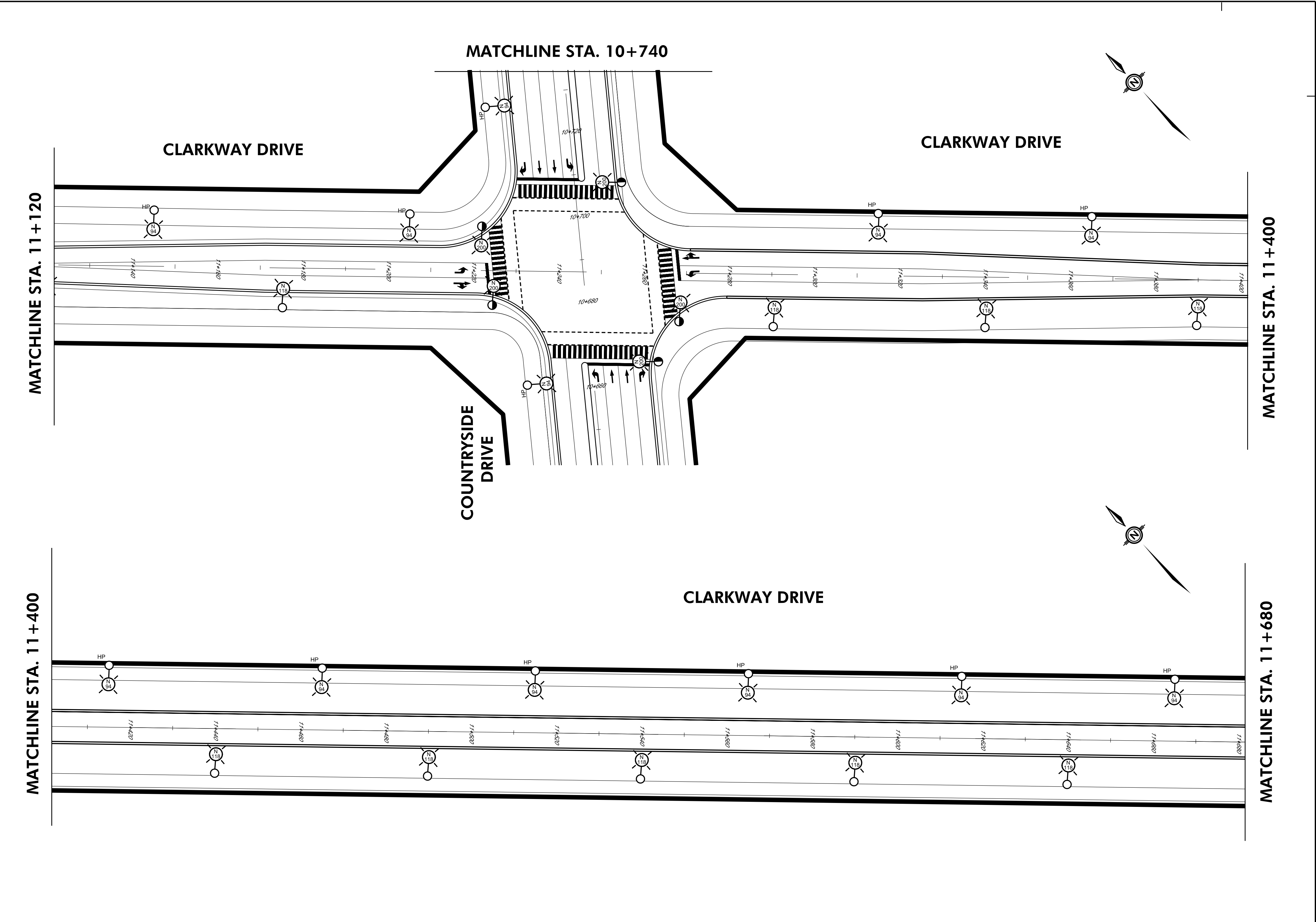
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NOTES

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STREET LIGHT POLE DETAILS

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

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.

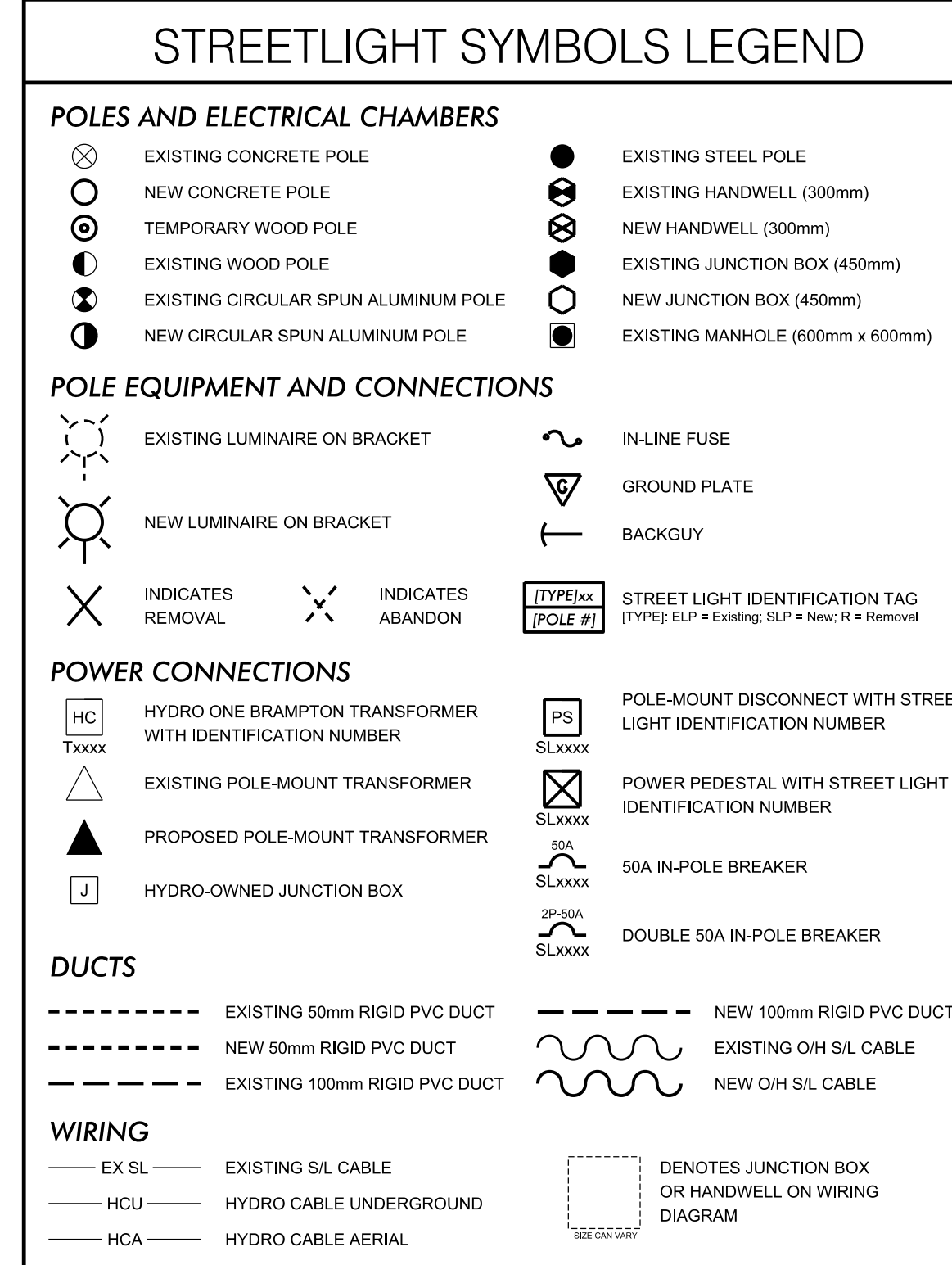
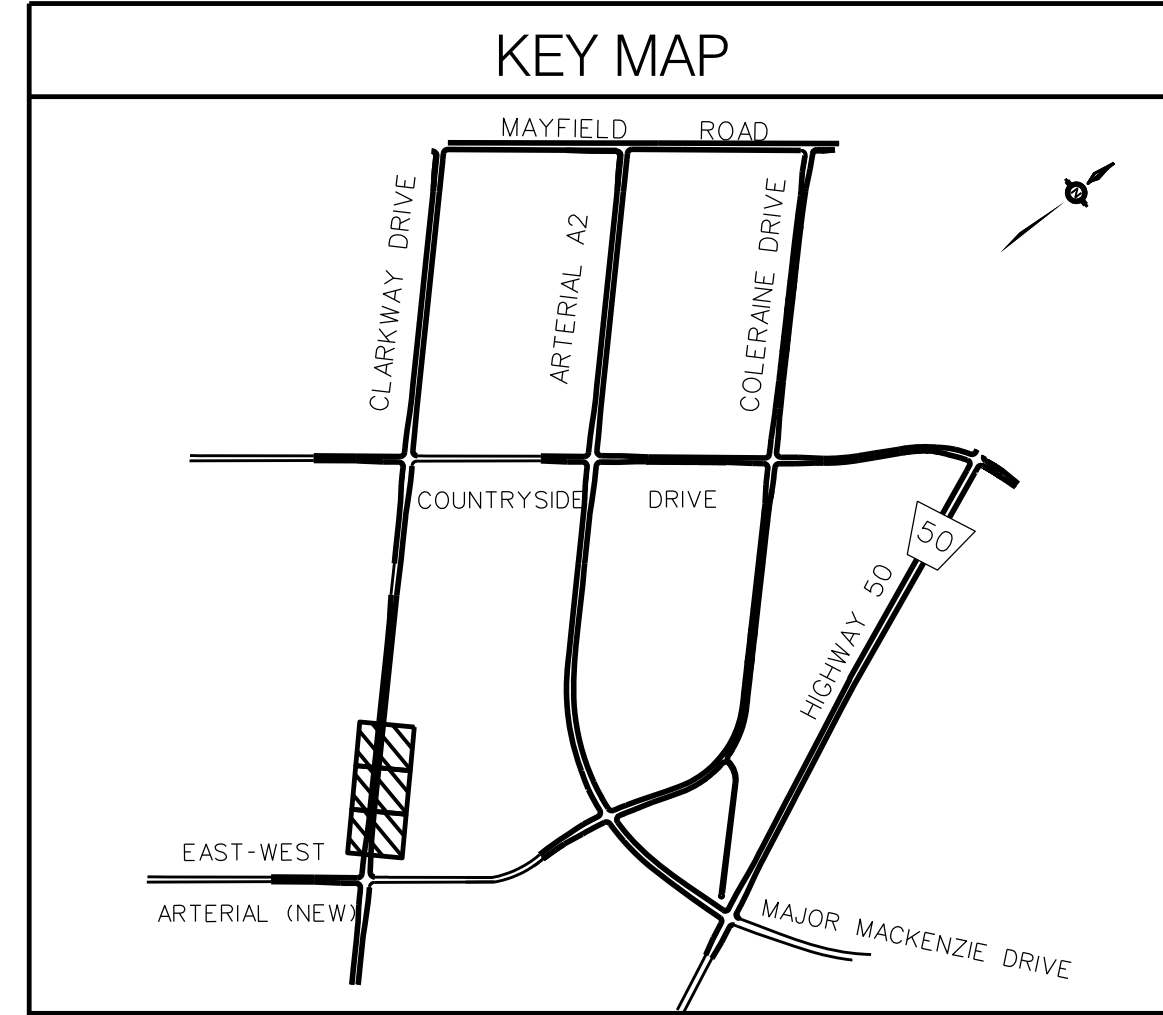
DATE: DEC 14, 2021 APPROVAL: _____

CONTRACT NO: 2013-012 APPROVAL DATE: _____

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

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

NT-10SL-XX



GENERAL NOTES

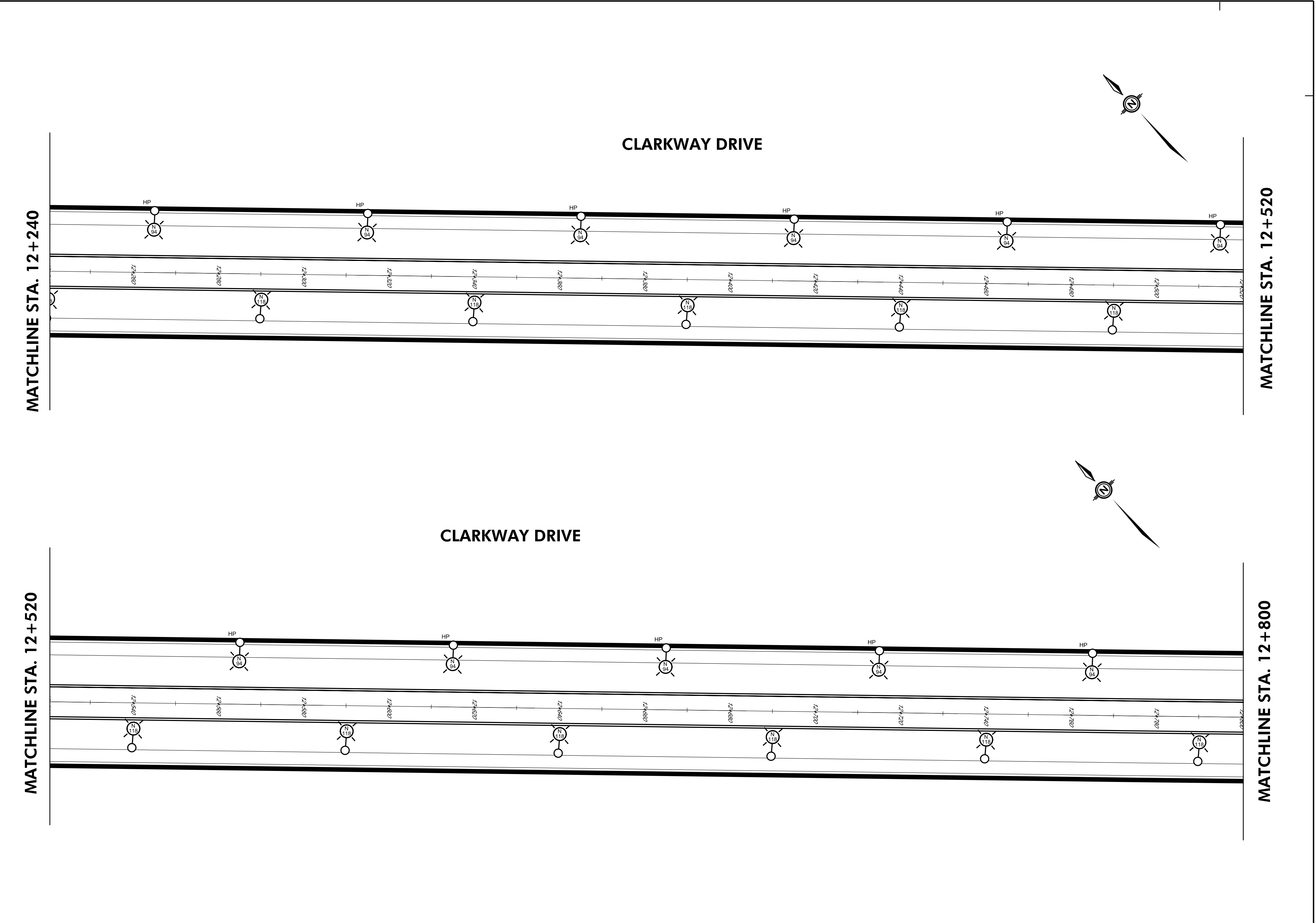
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STREET LIGHT POLE DETAILS

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



SCHEDULE OF APPROVALS

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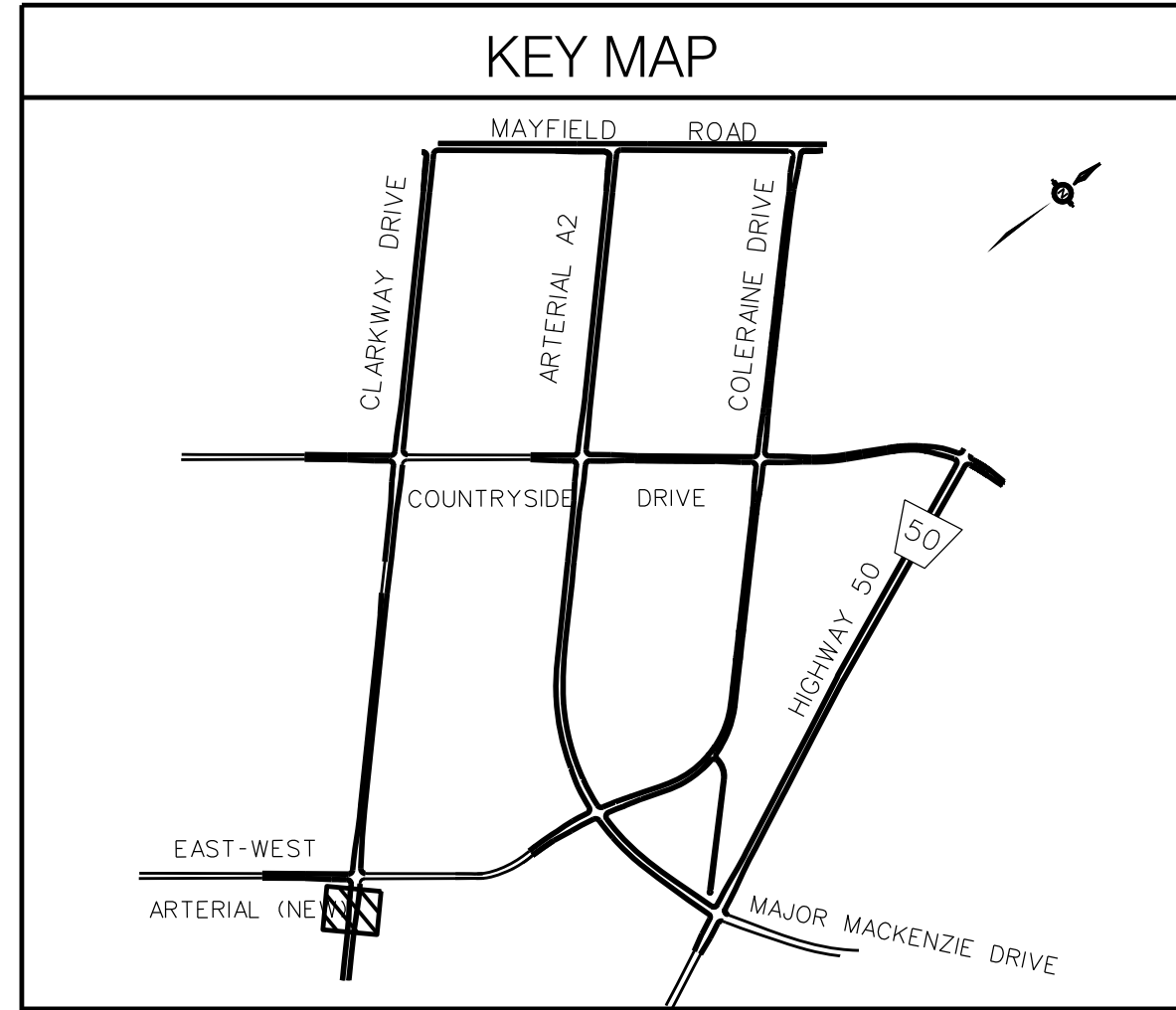



Planning and Infrastructure Services
Public Works

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
	IN-LINE FUSE
	GROUND PLATE
	BACKGUY
	INDICATES REMOVAL
	INDICATES ABANDON
	STREET LIGHT IDENTIFICATION TAG (TYPE) SL# - Existing, SL# - 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	
	EXISTING SIL CABLE
	HYDRO CABLE UNDERGROUND
	HYDRO CABLE AERIAL
	DENOTES JUNCTION BOX OR HANDWELL ON WIRING DIAGRAM

GENERAL NOTES

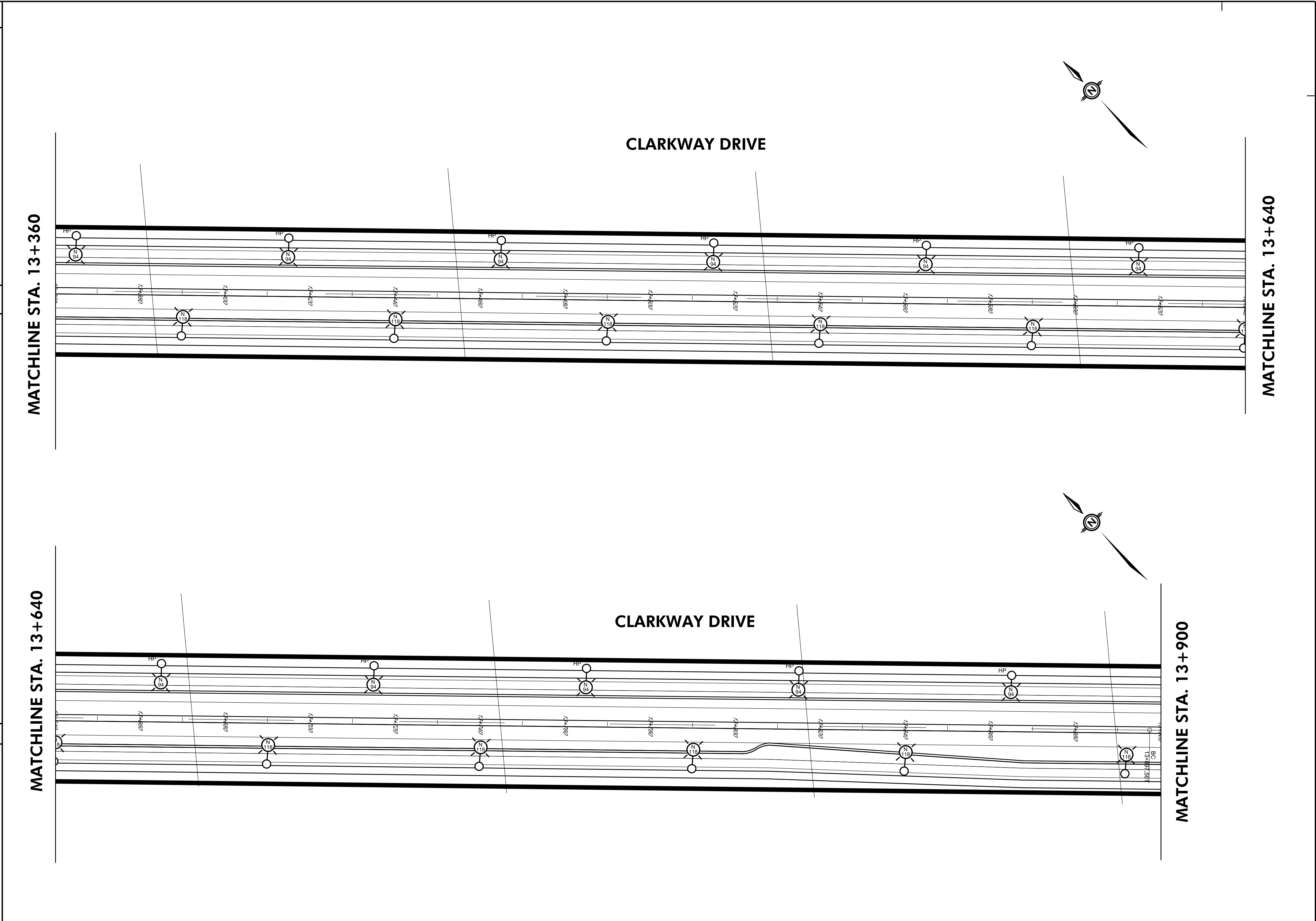
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NOTES

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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

NO.	DATE	BY	DESCRIPTION	CHECKED BY
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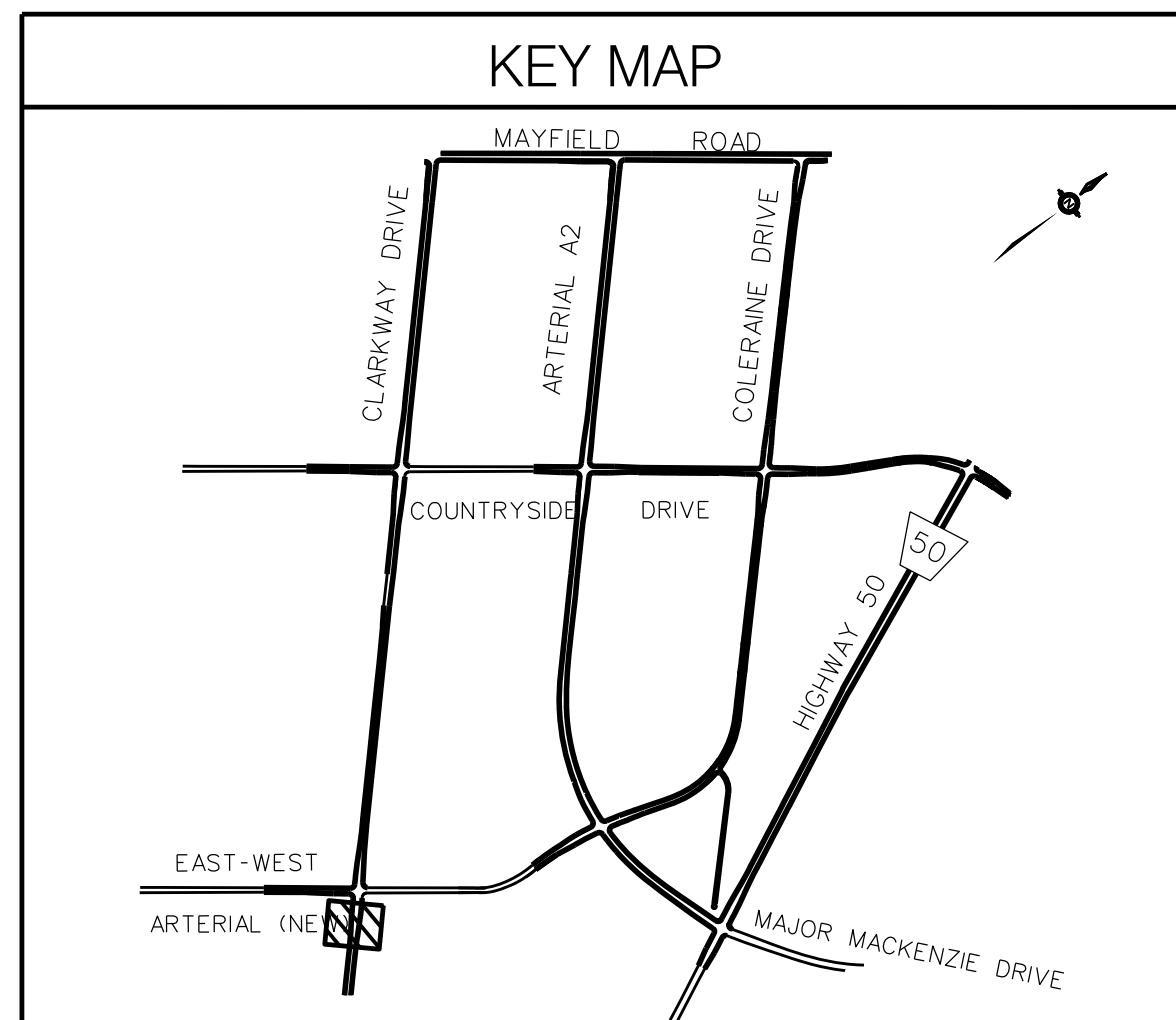
CONTRACT NO: 2013-012 APPROVAL DATE: _____

BRAMPTON Planning and Infrastructure Services
Public Works

CLARKWAY DRIVE
EAST - WEST ARTERIA TO PRIVATE ROAD
PROPOSED STREET LIGHTING - LAYOUT XXIII

DWG. NO.: N1-10SL-XX **SHT NO.: SL-24**

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, EP, 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

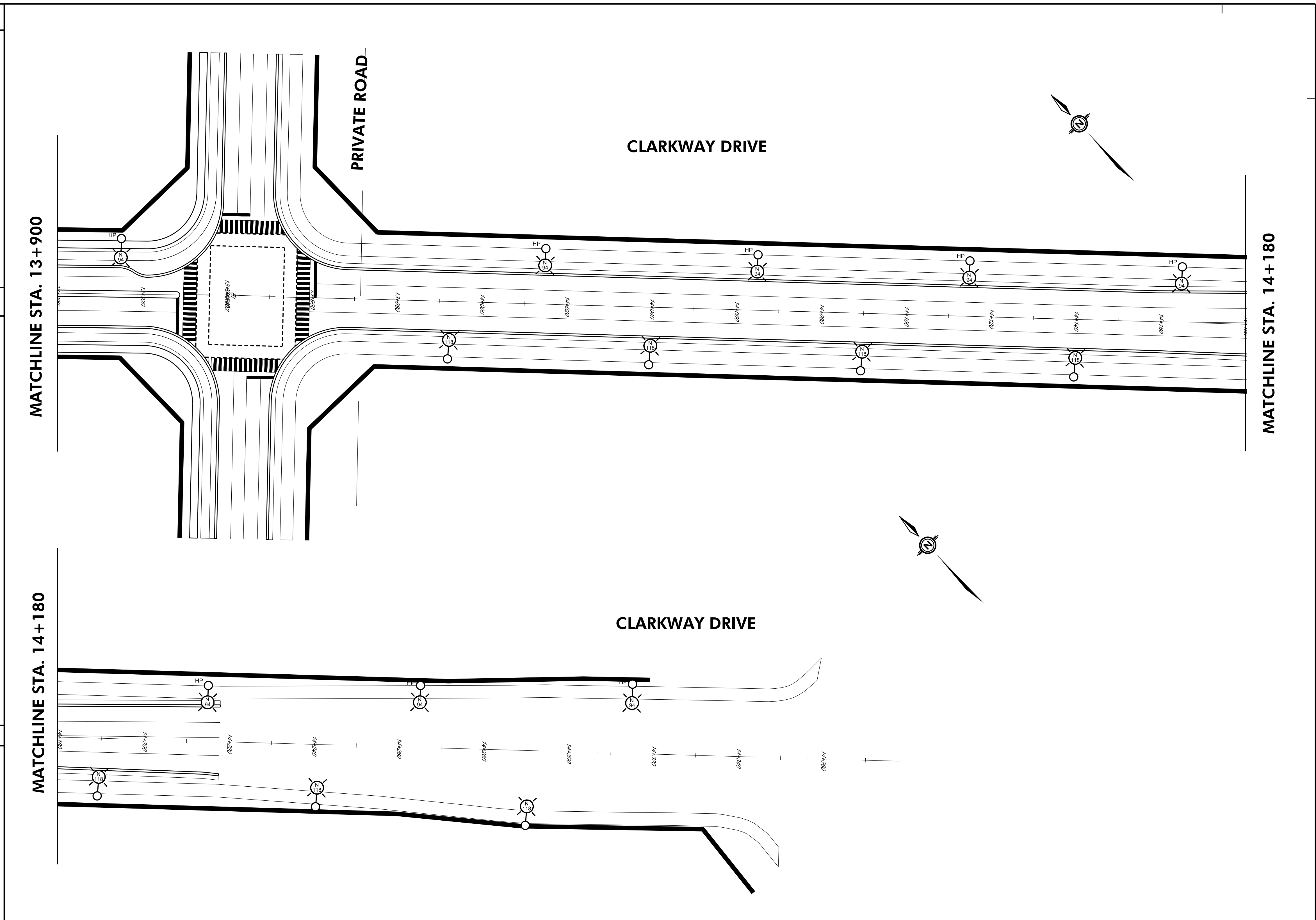
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STREET LIGHT POLE DETAILS

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

SCHEDULE OF APPROVALS

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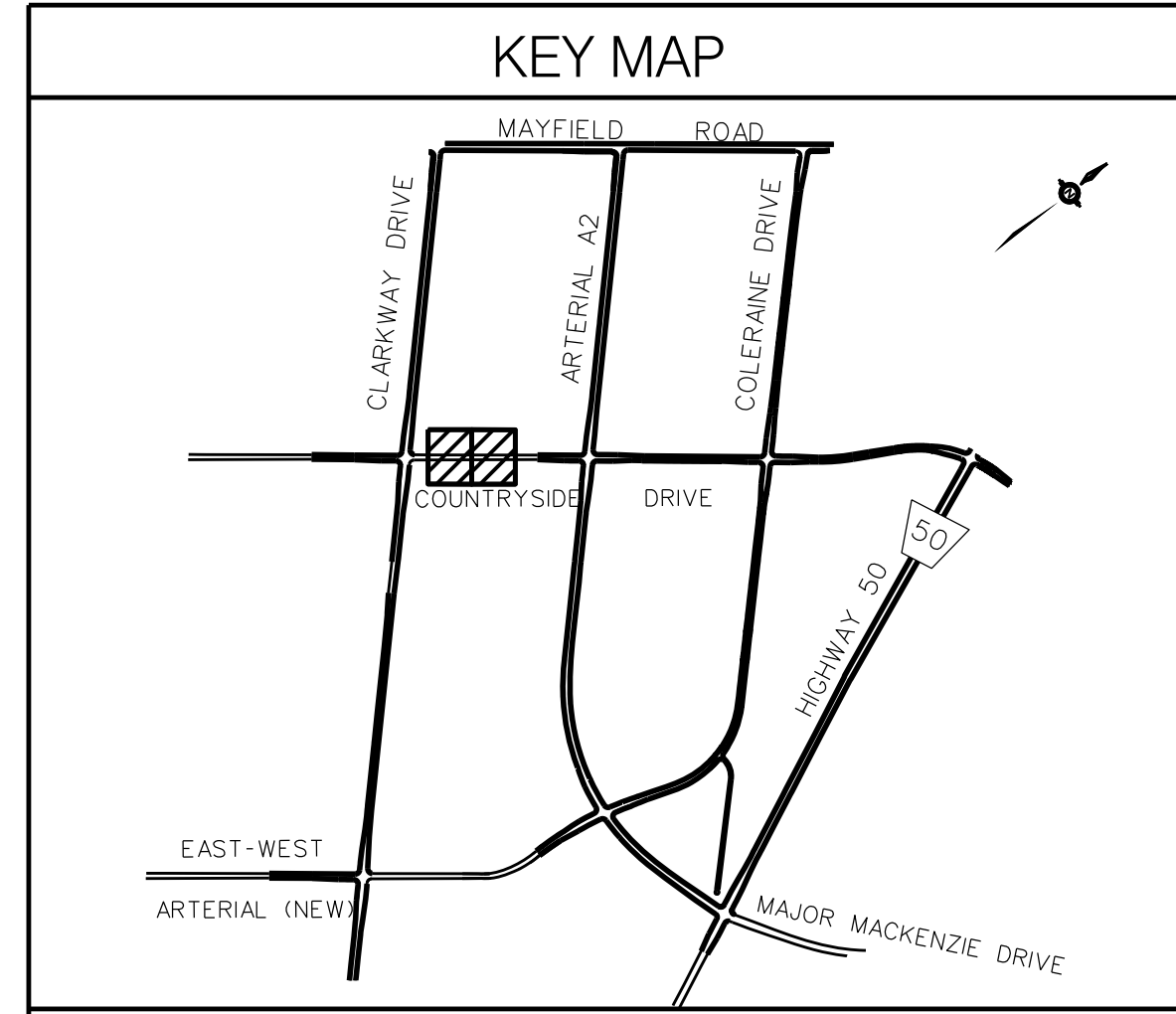
Moon-Matz Ltd.
Consulting Engineers

BRAMPTON Planning and Infrastructure Services
Flower City Public Works

CLARKWAY DRIVE
EAST - WEST ARTERIA TO PRIVATE ROAD
PROPOSED STREET LIGHTING - LAYOUT XXIV

DWG. NO.: N1-10SL-XX SHT NO.: SL-25

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, SLP-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 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

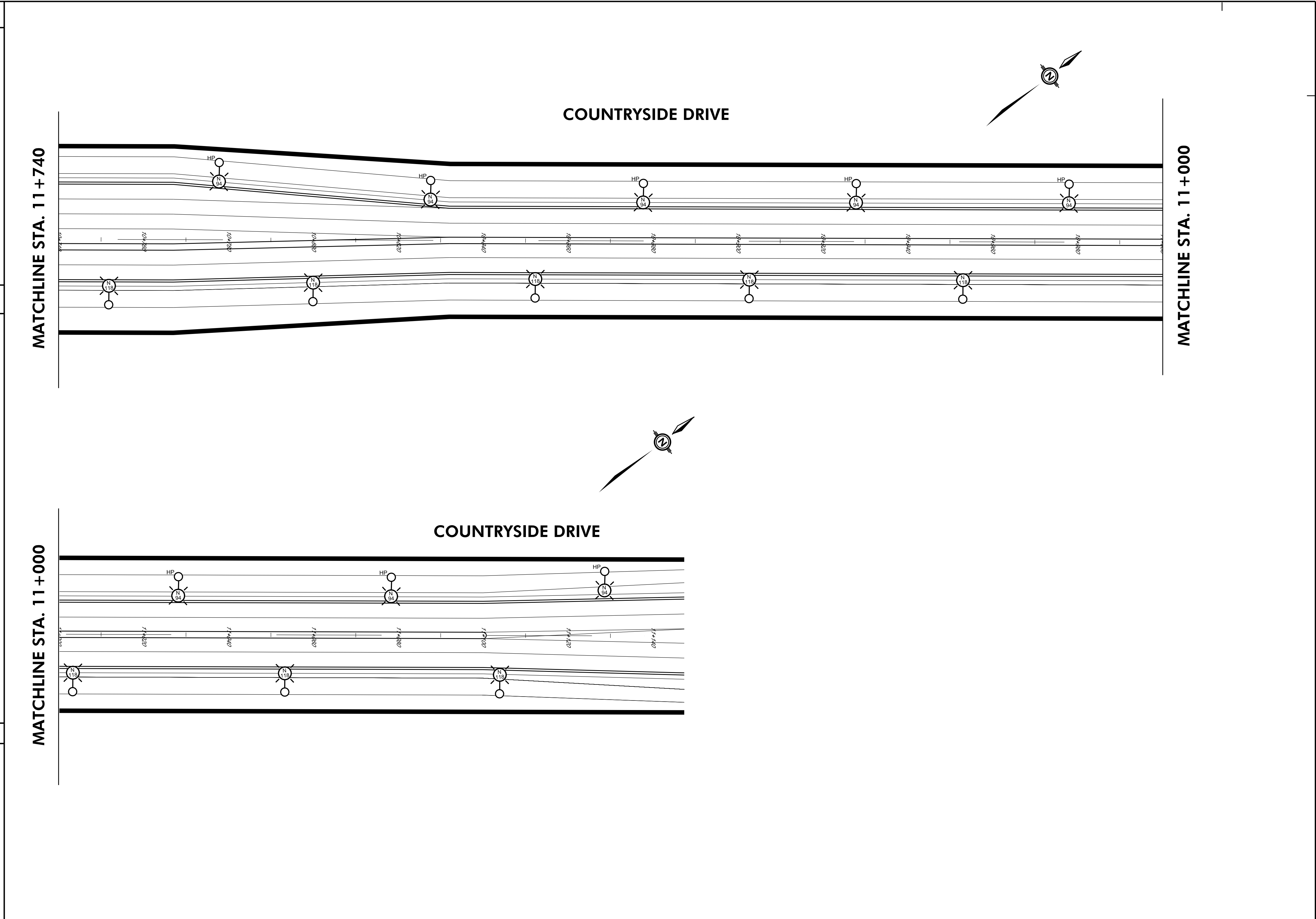
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STREET LIGHT POLE DETAILS

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

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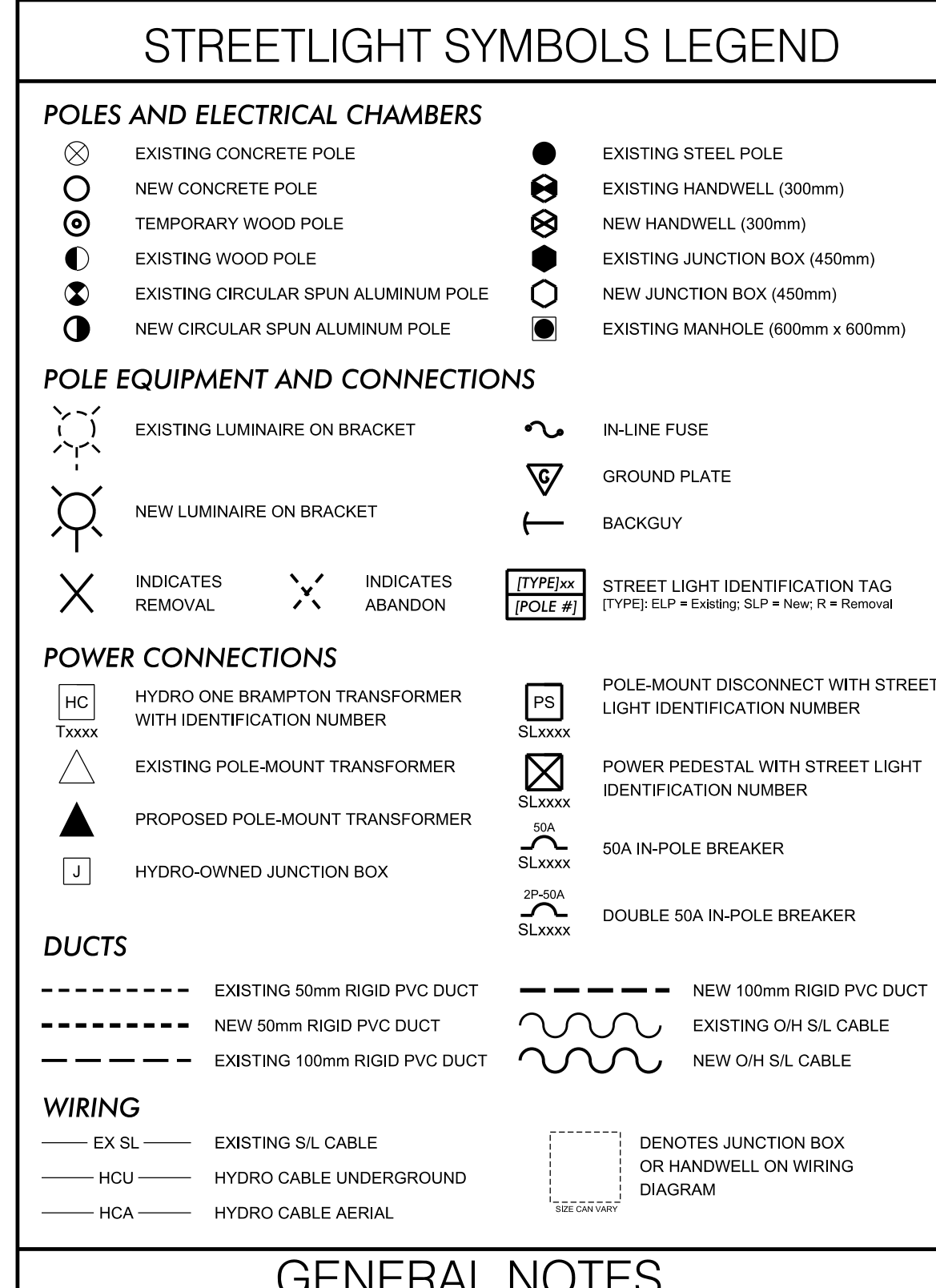
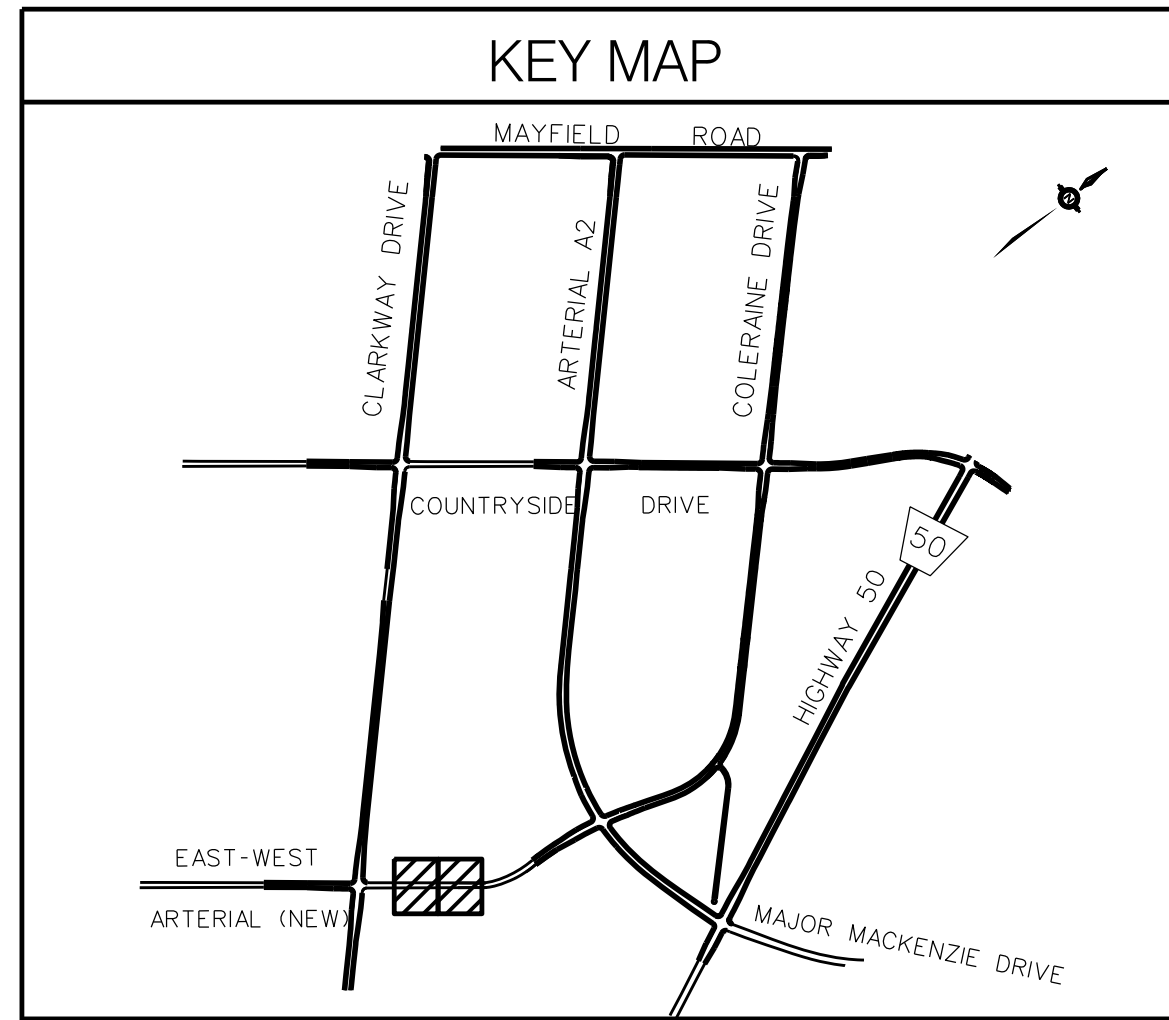
SCALE: 1 : 500 DESIGNED BY: M.M. CHECKED BY: M.M.

DATE: DEC 14, 2021 APPROVAL: _____

CONTRACT NO: 2013-012 APPROVAL DATE: _____

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

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



GENERAL NOTES

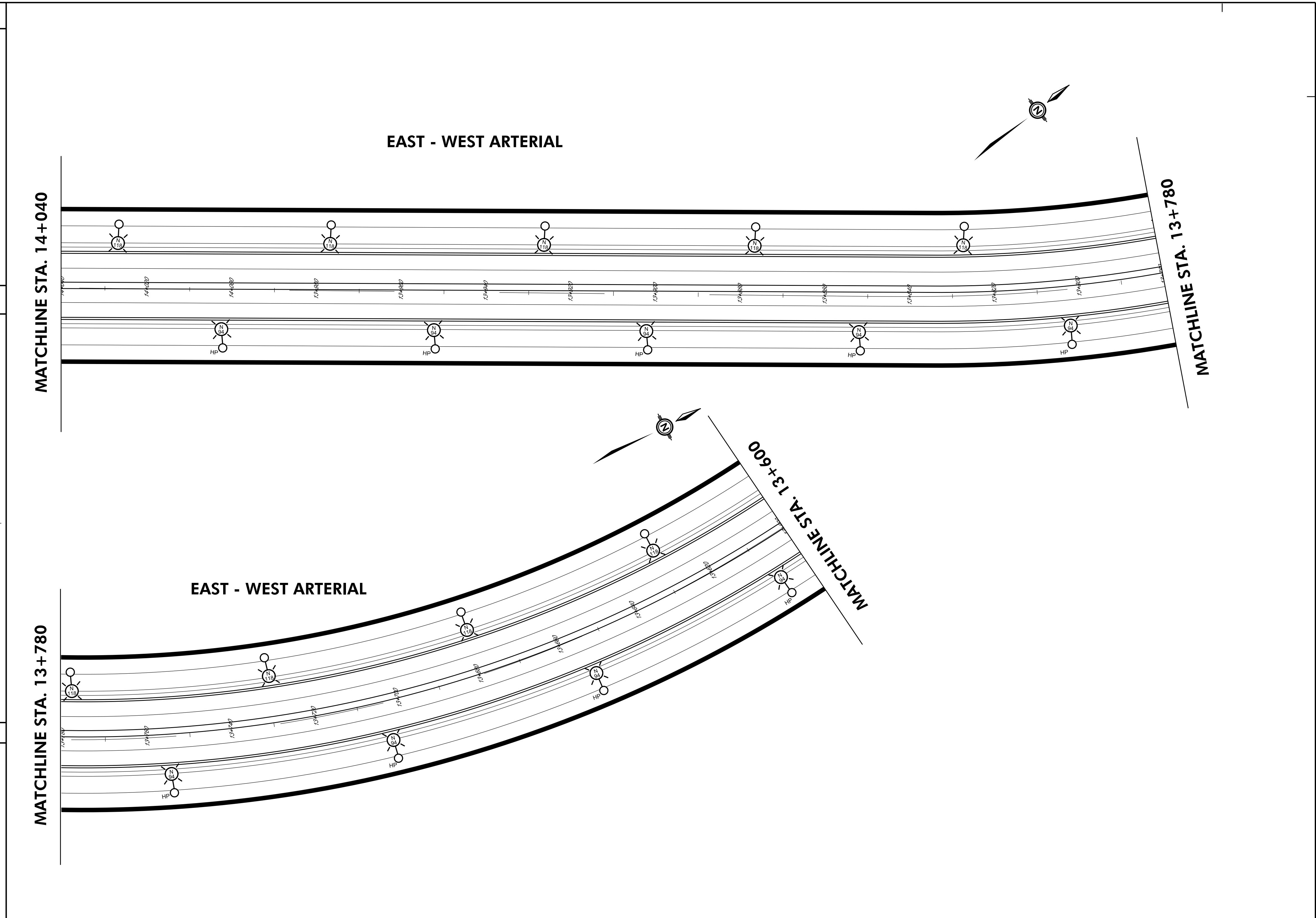
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STREET LIGHT POLE DETAILS

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

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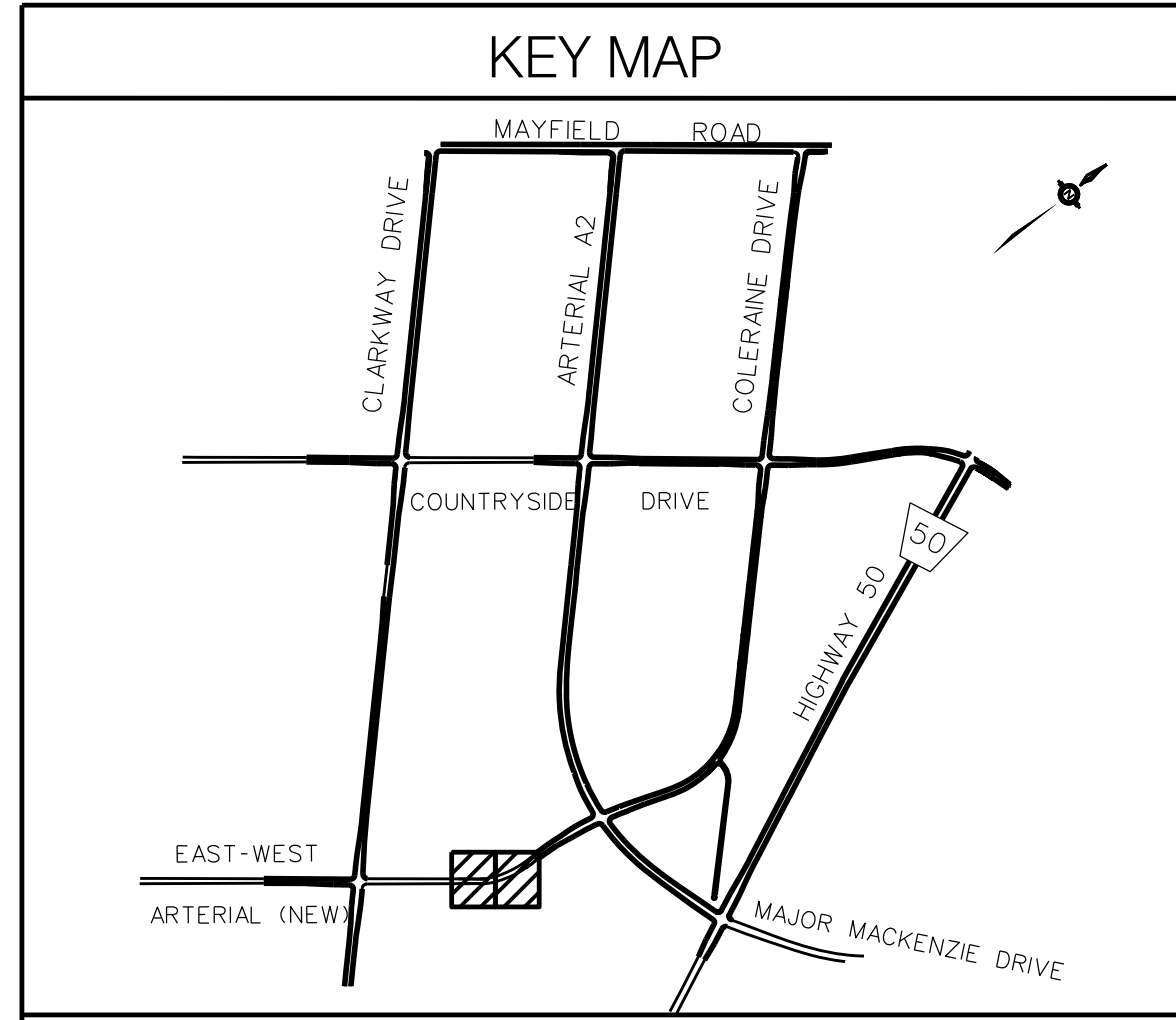
Moon-Matz Ltd.
Consulting Engineers

BRAMPTON Flower City Planning and Infrastructure Services
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	●	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	⤴	BACKGUY
✗	INDICATES ABANDON	Ⓛ	STREET LIGHT IDENTIFICATION TAG (TYPE) (SLP - Existing, SLP - New, R - Removal) (POLE #)

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	20-40A SLxxxx	DOUBLE 50A IN-POLE BREAKER

DUCTS

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

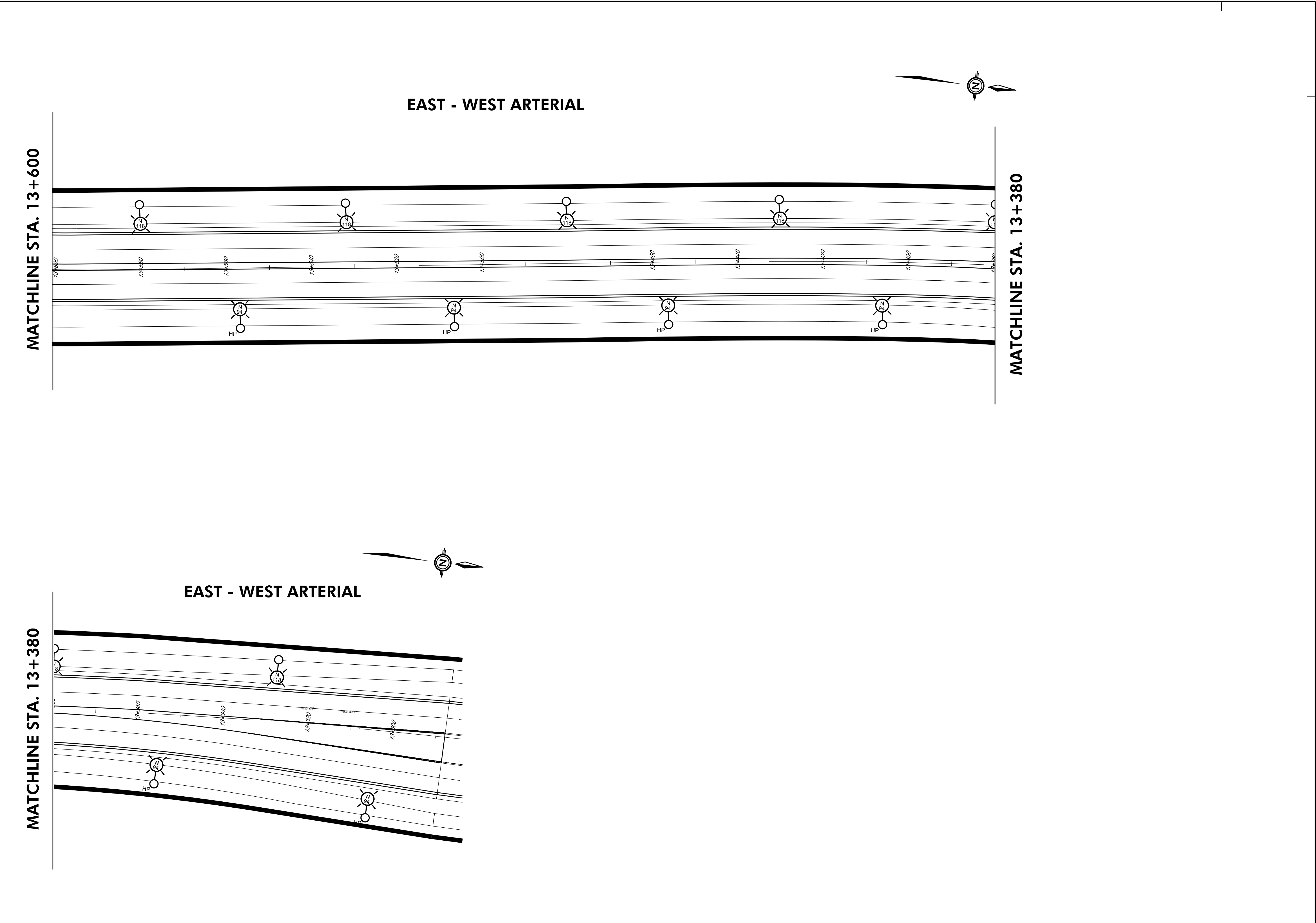
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STREET LIGHT POLE DETAILS

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 XXVII

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