

## **MINISTRY OF WORKS AND TRANSPORT**

Traffic Management Branch Licensing Office Headquarters Level II South Bank Road, Frederick Settlement Caroni, Trinidad, W.I. Phone: 612 - 0378 Ext. 56000

Wednesday, 17 April 2024

#### TENDERERS

Dear Sir/Madam,

### Re: Addendum to Upgrade of Obsolete Traffic Signal Control Equipment.

The following addendum to the Solicitation Documents for Upgrade of Obsolete Traffic Signal Control Equipment Contract is required. The purpose of this Addendum is to make changes, clarifications and additions to the Solicitation Document for the project referenced above.

#### ADDENDUM #1

#### **CHANGES/ CLARIFICATIONS**

1) Revision on pages 72,73,74,75,76,77,79,80,81,82,83,84,85 and 86 of 106

### **BILL OF QUANTITIES**

Items 2.04, 3.04, 4.04, 5.04, 6.04, 7.04, 9.04, 10.04, 11.04, 12.04, 13.04, 14.04, 15.04 and 16.04.

QTY. "4"

to be replaced with:

QTY. "3"

2) Revision on pages 72,73,74,75,76,77,78,79,80,81,82,83,84,85 and 86 of 106

**BILL OF QUANTITIES** 



Items 2.08, 3.08, 4.08, 5.08, 6.08, 7.08, 8.08, 9.08, 10.08, 11.08, 12.08, 13.08, 14.08, 15.08 and 16.08.

Supply and Installation of 25ft aesthetically pleasing decorative mast arm

#### to be replaced with:

Supply and Installation of 21'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm base

#### 3) Revision on pages 72,73,74,75,76,77,78,79,80,81,82,83,84,85 and 86 of 106

#### **BILL OF QUANTITIES**

Items 2.09, 3.09, 4.09, 5.09, 6.09, 7.09, 8.09, 9.09, 10.09, 11.09, 12.09, 13.09, 14.09, 15.09, 16.09.

Supply and Installation of 24" x 4" Galvanized Iron Pole

#### to be replaced with:

Supply and Installation of 24' x 4" Galvanized Iron Pole

#### 4) Revision on pages 72,73,74,75,76,77,78,79,80,81,82,83,84,85 and 86 of 106

#### **BILL OF QUANTITIES**

Items 2.11, 3.11, 4.11, 5.11, 6.11, 7.11, 8.11, 9.11, 10.11, 11.11, 12.11, 13.11, 14.11, 15.11 and 16.11.

Supply and Installation of Accessible XAV 2 LED Pushbutton

#### to be replaced with:

Supply and Installation of Accessible Pedestrian Push-button

#### 5) Revision on page 78 of 106

#### **BILL OF QUANTITIES**

Items 8.07

QTY. "5"

#### to be replaced with:

QTY. "4"

#### 6) Revision on page 38 of 106

#### **APPENDIX TO TENDER**

Times for Completion of Works	Clause 1.1.3.3	Ninety (90) Calendar Days
to be replaced with:		
Times for Completion of Works	Clause 1.1.3.3	One Hundred and Twenty (120) Calendar Days

#### 7) Addition to the DRAWINGS

The drawings of all the locations, splice box and drilled pier foundation for the mast arm attached in the Appendix should be included as part of the Solicitation Document.

Mr. Adande Piggott Chief Traffic Engineer

# APPENDIX

#### UPGRADE OF OBSOLETE TRAFFIC SIGNAL CONTROL EQUIPMENT

#### Bill 200 -L1 – Duke Street / Richmond Street

ITEM	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
2	Traffic Signal Control Equipment at L1				
2.01	Excavation of roadway to an average 305mm W x 560mm D trench.	7	cu m		\$
2.02	Supply and Place 4"schedule 40 PVC encased in 3000 PSI reinforced concrete, toped off by 4" asphalt	40	m		\$
2.03	Supply and Installation of 36"x48"x20" Concrete Plinth Cabinet inclusive of rebar cage	1	NO.		\$
2.04	Supply and Installation of Concrete Pole Base with 19" L x 5/8" diameter bolts and rebar cage	3	NO.		\$
2.05	Supply and Installation of 8 phase fully loaded TS2 Type 2 NEMA standard cabinet coordination ready inclusive of controller and 8 hour runtime UPS	1	NO.		\$
2.06	Supply and Installation of 12x12x12 LED Vehicular Signals	4	NO.		\$
2.07	Supply and Installation of 10 ' x 4 " Aluminum Pole and Square Aluminum Breakaway Base	3	NO.		\$
2.08	Supply and Installation of 21'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base	1	NO.		\$
2.09	Supply and Installation of 24' x 4" Galvanized Iron Pole	1	NO.		\$
2.10	Supply and Installation of Countdown Pedestrian Signals	8	NO.		\$
2.11	Supply and Installation of Accessible Pedestrian Push- button	4	NO.		\$
2.12	Supply and Installation of 3x16sq Armoured Cable	12	m		\$
2.13	Supply and Installation of 2.5mm sq 4 core rhino cable	3	Coils		\$
2.14	Supply and Installation of weather proof bell	1	NO.		\$
2.15	Supply and Installation of Splice Box	2	NO.		\$
2.16	Supply and Installation of 2mx4m Sensor	4	NO.		\$
2.17	Supply and Installation of all Aluminum Mounting Hardware required		L.S.		\$
	TOTAL FOR BILL 200				
	Total of Bill 200 Carried Forward to Summary				•

#### UPGRADE OF OBSOLETE TRAFFIC SIGNAL CONTROL EQUIPMENT

#### Bill 300 - L2 - Duke Street / Edward Street

ITEM	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
3	Traffic Signal Control Equipment at L2				
3.01	Excavation of roadway to an average 305mm W x 560mm D trench.	7	cu m		\$
3.02	Supply and Place 4"schedule 40 PVC encased in 3000 PSI reinforced concrete, toped off by 4" asphalt	40	m		\$
3.03	Supply and Installation of 36"x48"x20" Concrete Plinth Cabinet inclusive of rebar cage	1	NO.		\$
3.04	Supply and Installation of Concrete Pole Base with 19" L x 5/8" diameter bolts and rebar cage	3	NO.		\$
3.05	Supply and Installation of 8 phase fully loaded TS2 Type 2 NEMA standard cabinet coordination ready inclusive of controller and 8 hour runtime UPS	1	NO.		\$
3.06	Supply and Installation of 12x12x12 LED Vehicular Signals	4	NO.		\$
3.07	Supply and Installation of 10 ' x 4 " Aluminum Pole and Square Aluminum Breakaway Base	3	NO.		\$
3.08	Supply and Installation of 21'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base	1	NO.		\$
3.09	Supply and Installation of 24' x 4" Galvanized Iron Pole	1	NO.		\$
3.10	Supply and Installation of Countdown Pedestrian Signals	8	NO.		\$
3.11	Supply and Installation of Accessible Pedestrian Push- button	4	NO.		\$
3.12	Supply and Installation of 3x16sq Armoured Cable	12	m		\$
3.13	Supply and Installation of 2.5mm sq 4 core rhino cable	3	Coils		\$
3.14	Supply and Installation of weather proof bell	1	NO.		\$
3.15	Supply and Installation of Splice Box	2	NO.		\$
3.16	Supply and Installation of 2mx4m Sensor	4	NO.		\$
3.17	Supply and Installation of all Aluminum Mounting Hardware required		L.S.		\$
	TOTAL FOR BILL 300				
	Total of Bill 300 Carried Forward to Summary				l

#### UPGRADE OF OBSOLETE TRAFFIC SIGNAL CONTROL EQUIPMENT

### Bill 400 -L3 – Duke Street / St. Vincent Street

ITEM	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
4	Traffic Signal Control Equipment at L3				
4.01	Excavation of roadway to an average 305mm W x 560mm D trench.	7	cu m		\$
4.02	Supply and Place 4"schedule 40 PVC encased in 3000 PSI reinforced concrete, toped off by 4" asphalt	40	m		\$
4.03	Supply and Installation of 36"x48"x20" Concrete Plinth Cabinet inclusive of rebar cage	1	NO.		\$
4.04	Supply and Installation of Concrete Pole Base with 19" L x $5/8$ " diameter bolts and rebar cage	3	NO.		\$
4.05	Supply and Installation of 8 phase fully loaded TS2 Type 2 NEMA standard cabinet coordination ready inclusive of controller and 8 hour runtime UPS	1	NO.		\$
4.06	Supply and Installation of 12x12x12 LED Vehicular Signals	4	NO.		\$
4.07	Supply and Installation of 10 ' x 4 " Aluminum Pole and Square Aluminum Breakaway Base	3	NO.		\$
4.08	Supply and Installation of 21'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base	1	NO.		\$
4.09	Supply and Installation of 24' x 4" Galvanized Iron Pole	1	NO.		\$
4.10	Supply and Installation of Countdown Pedestrian Signals	8	NO.		\$
4.11	Supply and Installation of Accessible Pedestrian Push- button	4	NO.		\$
4.12	Supply and Installation of 3x16sq Armoured Cable	12	m		\$
4.13	Supply and Installation of 2.5mm sq 4 core rhino cable	3	Coils		\$
4.14	Supply and Installation of weather proof bell	1	NO.		\$
4.15	Supply and Installation of Splice Box	2	NO.		\$
4.16	Supply and Installation of 2mx4m Sensor	4	NO.		\$
4.17	Supply and Installation of all Aluminum Mounting Hardware required		L.S.		\$
	TOTAL FOR BILL 400				
	Total of Bill 400 Carried Forward to Summary	<u> </u>			

#### UPGRADE OF OBSOLETE TRAFFIC SIGNAL CONTROL EQUIPMENT

#### Bill 500 -L4 – Duke Street / Abercromby Street

ITEM	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
5	Traffic Signal Control Equipment at L4				
5.01	Excavation of roadway to an average 305mm W x 560mm D trench.	7	cu m		\$
5.02	Supply and Place 4"schedule 40 PVC encased in 3000 PSI reinforced concrete, toped off by 4" asphalt	40	m		\$
5.03	Supply and Installation of 36"x48"x20" Concrete Plinth Cabinet inclusive of rebar cage	1	NO.		\$
5.04	Supply and Installation of Concrete Pole Base with 19" L x $5/8$ " diameter bolts and rebar cage	4	NO.		\$
5.05	Supply and Installation of 8 phase fully loaded TS2 Type 2 NEMA standard cabinet coordination ready inclusive of controller and 8 hour runtime UPS	1	NO.		\$
5.06	Supply and Installation of 12x12x12 LED Vehicular Signals	4	NO.		\$
5.07	Supply and Installation of 10 ' x 4 " Aluminum Pole and Square Aluminum Breakaway Base	3	NO.		\$
5.08	Supply and Installation of 21'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base	1	NO.		\$
5.09	Supply and Installation of 24' x 4" Galvanized Iron Pole	1	NO.		\$
5.10	Supply and Installation of Countdown Pedestrian Signals	8	NO.		\$
5.11	Supply and Installation of Accessible Pedestrian Push- button	4	NO.		\$
5.12	Supply and Installation of 3x16sq Armoured Cable	12	m		\$
5.13	Supply and Installation of 2.5mm sq 4 core rhino cable	3	Coils		\$
5.14	Supply and Installation of weather proof bell	1	NO.		\$
5.15	Supply and Installation of Splice Box	2	NO.		\$
5.16	Supply and Installation of 2mx4m Sensor	4	NO.		\$
5.17	Supply and Installation of all Aluminum Mounting Hardware required		L.S.		\$
	TOTAL FOR BILL 500				
	Total of Bill 500 Carried Forward to Summary				I

#### UPGRADE OF OBSOLETE TRAFFIC SIGNAL CONTROL EQUIPMENT

### <u>Bill 600 - L5 – Duke Street / Frederick Street</u>

ITEM	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
6	Traffic Signal Control Equipment at L5				
6.01	Excavation of roadway to an average 305mm W x 560mm D trench.	7	cu m		\$
6.02	Supply and Place 4"schedule 40 PVC encased in 3000 PSI reinforced concrete, toped off by 4" asphalt	40	m		\$
6.03	Supply and Installation of 36"x48"x20" Concrete Plinth Cabinet inclusive of rebar cage	1	NO.		\$
6.04	Supply and Installation of Concrete Pole Base with 19" L x $5/8$ " diameter bolts and rebar cage	3	NO.		\$
6.05	Supply and Installation of 8 phase fully loaded TS2 Type 2 NEMA standard cabinet coordination ready inclusive of controller and 8 hour runtime UPS	1	NO.		\$
6.06	Supply and Installation of 12x12x12 LED Vehicular Signals	4	NO.		\$
6.07	Supply and Installation of 10 ' x 4 " Aluminum Pole and Square Aluminum Breakaway Base	3	NO.		\$
6.08	Supply and Installation of 21'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base	1	NO.		\$
6.09	Supply and Installation of 24' x 4" Galvanized Iron Pole	1	NO.		\$
6.10	Supply and Installation of Countdown Pedestrian Signals	8	NO.		\$
6.11	Supply and Installation of Accessible Pedestrian Push- button	4	NO.		\$
6.12	Supply and Installation of 3x16sq Armoured Cable	12	m		\$
6.13	Supply and Installation of 2.5mm sq 4 core rhino cable	3	Coils		\$
6.14	Supply and Installation of weather proof bell	1	NO.		\$
6.15	Supply and Installation of Splice Box	2	NO.		\$
6.16	Supply and Installation of 2mx4m Sensor	4	NO.		\$
6.17	Supply and Installation of all Aluminum Mounting Hardware required		L.S.		\$
	TOTAL FOR BILL 600 Total of Bill 600 Carried Forward to Summary				

#### UPGRADE OF OBSOLETE TRAFFIC SIGNAL CONTROL EQUIPMENT

#### Bill 700 - L6 - Duke Street / Charlotte Street

7Traffic Signal Control Equipment at L6III7.01Excavation of roadway to an average 305mm W x 560mm D trench.7cu mS7.02Supply and Place 4'schedule 40 PVC encased in 3000 PSI reinforced concrete, toped off by 4" asphalt40mS7.03Supply and Installation of 26''x48''x20'' Concrete Plinth Cabinet inclusive of rebar cage1NO.S7.04Supply and Installation of Concrete Pole Base with 19'' L x S8'' diameter bols and rebar cage3NO.S7.05Supply and Installation of 12x12x12 LED Vehicular Signals4NO.S7.06Supply and Installation of 10' x 4 " Aluminum Pole and Square Aluminum Breakaway Base3NO.S7.06Supply and Installation of 21'x 25''.30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base1NO.S7.09Supply and Installation of 24'' x 4'' Galvanized Iron Pole1NO.S7.10Supply and Installation of Accessible Pedestrian Fush- button4NO.S7.11Supply and Installation of 24'' x 4'' Galvanized Iron Pole11NO.S7.12Supply and Installation of 25''s affect cape3CoilsS7.13Supply and Installation of 25''s affect cape3NO.S7.14Supply and Installation of 25''s affect cape3CoilsS7.15Supply and Installation of 25''s affect cape3CoilsS7.14Supply and Installation of 25''s affect ca	DUNT
7.01   D trench.   7   cu m   S     7.02   Supply and Place 4"schedule 40 PVC encased in 3000 PSI reinforced concrete, toped off by 4" asphalt   40   m   S     7.03   Supply and Installation of 36"x48"x20" Concrete Plinth Cabinet inclusive of rebar cage   1   NO.   S     7.04   Supply and Installation of Concrete Pole Base with 19" L x   3   NO.   S     7.05   Supply and Installation of 8 phase fully loaded TS2 Type 2   1   NO.   S     7.06   Supply and Installation of 10' x 4 " Aluminum Pole and Square Aluminum Breakaway Base   3   NO.   S     7.07   Supply and Installation of 21'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base   1   NO.   S     7.09   Supply and Installation of 21'x 4 " Galvanized Iron Pole   1   NO.   S     7.10   Supply and Installation of 24' x 4" Galvanized Iron Pole   1   NO.   S     7.11   Supply and Installation of 3x16sq Armoured Cable   12   m   S     7.11   Supply and Installation of 2.5mm sq 4 core rhino cable   3   Coils   S     7.12   Supply and Installation of 2.5mm sq 4 core rhino cable   1	_
7.02   reinforced concrete, toped off by 4" asphalt   40   m   S     7.03   Supply and Installation of 36"x48"x20" Concrete Plinth Cabinet inclusive of rebar cage   1   NO.   S     7.04   Supply and Installation of Concrete Pole Base with 19" L x 5/8" diameter bolts and rebar cage   3   NO.   S     7.05   Supply and Installation of 20 hase fully loaded TS2 Type 2 NEMA standard cabinet coordination ready inclusive of controller and 8 hour runtime UPS   1   NO.   S     7.06   Supply and Installation of 12x12x12 LED Vehicular Signals   4   NO.   S     7.07   Supply and Installation of 11 x 4 " Aluminum Pole and Square Aluminum Breakaway Base   3   NO.   S     7.08   Supply and Installation of 21' x 25'-30" ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base   1   NO.   S     7.09   Supply and Installation of 24' x 4" Galvanized Iron Pole   1   NO.   S     7.10   Supply and Installation of 3x16sq Armoured Cable   12   m   S     7.11   Supply and Installation of 2.5mm sq 4 core rhino cable   3   Coils   S     7.11   Supply and Installation of 2.5mm sq 4 core rhino cable   3   Coils   S	
7.05Cabinet inclusive of rebar cage11.0.137.04Supply and Installation of Concrete Pole Base with 19" L x 5/8" diameter bolts and rebar cage3NO.\$7.05Supply and Installation of 8 phase fully loaded TS2 Type 2 controller and 8 hour runtime UPS1NO.\$7.06Supply and Installation of 12x12x12 LED Vehicular Signals4NO.\$7.07Supply and Installation of 10 ' x 4 " Aluminum Pole and Square Aluminum Breakaway Base3NO.\$7.08Supply and Installation of 21'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base1NO.\$7.09Supply and Installation of 24' x 4" Galvanized Iron Pole1NO.\$7.10Supply and Installation of Accessible Pedestrian Signals8NO.\$7.11Supply and Installation of 2.5mm sq 4 core rhino cable12m\$7.12Supply and Installation of 2.5mm sq 4 core rhino cable3Coils\$7.14Supply and Installation of Splice Box2NO.\$7.15Supply and Installation of Splice Box2NO.\$7.14Supply and Installation of 2mx4m Sensor4NO.\$7.15Supply and Installation of 2mx4m Sensor4NO.\$7.16Supply and Installation of 2mx4m Sensor4NO.\$7.15Supply and Installation of all Aluminum Mounting HardwareL.S.\$	
7.04   5/8" diameter bolts and rebar cage   3   NO.   S     7.05   Supply and Installation of 8 phase fully loaded TS2 Type 2 NEMA standard cabinet coordination ready inclusive of controller and 8 hour runtime UPS   1   NO.   S     7.06   Supply and Installation of 12x12x12 LED Vehicular Signals   4   NO.   S     7.07   Supply and Installation of 10 ' x 4 " Aluminum Pole and Square Aluminum Breakaway Base   3   NO.   S     7.08   Supply and Installation of 21 ' x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base   1   NO.   S     7.09   Supply and Installation of 24' x 4" Galvanized Iron Pole   1   NO.   S     7.10   Supply and Installation of Accessible Pedestrian Signals   8   NO.   S     7.10   Supply and Installation of Accessible Pedestrian Push- button   4   NO.   S     7.11   Supply and Installation of 2.5mm sq 4 core rhino cable   3   Coils   S     7.13   Supply and Installation of 2.5mm sq 4 core rhino cable   3   Coils   S     7.13   Supply and Installation of 2.5mm sq 4 core rhino cable   3   Coils   S     7.14   <	
7.05   NEMA standard cabinet coordination ready inclusive of controller and 8 hour runtime UPS   1   NO.   \$     7.06   Supply and Installation of 12x12x12 LED Vehicular Signals   4   NO.   \$     7.07   Supply and Installation of 10' x 4 " Aluminum Pole and Square Aluminum Breakaway Base   3   NO.   \$     7.08   Supply and Installation of 21'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base   1   NO.   \$     7.09   Supply and Installation of 24' x 4" Galvanized Iron Pole   1   NO.   \$     7.10   Supply and Installation of Accessible Pedestrian Signals   8   NO.   \$     7.11   Supply and Installation of 3x16sq Armoured Cable   12   m   \$     7.12   Supply and Installation of 2.5mm sq 4 core rhino cable   3   Coils   \$     7.14   Supply and Installation of Splice Box   2   NO.   \$     7.15   Supply and Installation of 2mx4m Sensor   4   NO.   \$	
7.07Supply and Installation of 10 ' x 4 " Aluminum Pole and Square Aluminum Breakaway Base3NO.7.08Supply and Installation of 21 'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base1NO.7.09Supply and Installation of 24' x 4" Galvanized Iron Pole1NO.7.10Supply and Installation of Countdown Pedestrian Signals8NO.7.11Supply and Installation of Accessible Pedestrian Push- button4NO.7.12Supply and Installation of 3x16sq Armoured Cable12m7.13Supply and Installation of 2.5mm sq 4 core rhino cable3Coils7.14Supply and Installation of Splice Box2NO.7.15Supply and Installation of 2mx4m Sensor4NO.	
7.07Square Aluminum Breakaway Base3NO.Supply and Installation of 21'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base1NO.7.08Supply and Installation of 24' x 4" Galvanized Iron Pole1NO.\$7.09Supply and Installation of 24' x 4" Galvanized Iron Pole1NO.\$7.10Supply and Installation of Countdown Pedestrian Signals8NO.\$7.11Supply and Installation of Accessible Pedestrian Push- button4NO.\$7.12Supply and Installation of 3x16sq Armoured Cable12m\$7.13Supply and Installation of 2.5mm sq 4 core rhino cable3Coils\$7.14Supply and Installation of Splice Box2NO.\$7.15Supply and Installation of 2mx4m Sensor4NO.\$7.16Supply and Installation of all Aluminum Mounting Hardware4NO.\$	
7.08pleasing decorative mast arm inclusive of mast arm concrete base1NO.\$7.09Supply and Installation of 24' x 4" Galvanized Iron Pole1NO.\$7.10Supply and Installation of Countdown Pedestrian Signals8NO.\$7.11Supply and Installation of Accessible Pedestrian Push- button4NO.\$7.12Supply and Installation of 3x16sq Armoured Cable12m\$7.13Supply and Installation of 2.5mm sq 4 core rhino cable3Coils\$7.14Supply and Installation of weather proof bell1NO.\$7.15Supply and Installation of Splice Box2NO.\$7.16Supply and Installation of 2mx4m Sensor4NO.\$7.17Supply and Installation of all Aluminum Mounting Hardware1S\$	
7.10Supply and Installation of Countdown Pedestrian Signals8NO.\$7.11Supply and Installation of Accessible Pedestrian Pushbutton4NO.\$7.12Supply and Installation of 3x16sq Armoured Cable12m\$7.13Supply and Installation of 2.5mm sq 4 core rhino cable3Coils\$7.14Supply and Installation of weather proof bell1NO.\$7.15Supply and Installation of Splice Box2NO.\$7.16Supply and Installation of 2mx4m Sensor4NO.\$7.17Supply and Installation of all Aluminum Mounting HardwareL.S.\$	
7.11Supply and Installation of Accessible Pedestrian Pushbutton4NO.7.12Supply and Installation of 3x16sq Armoured Cable12m7.13Supply and Installation of 2.5mm sq 4 core rhino cable3Coils7.14Supply and Installation of weather proof bell1NO.7.15Supply and Installation of Splice Box2NO.7.16Supply and Installation of 2mx4m Sensor4NO.7.17Supply and Installation of all Aluminum Mounting HardwareL.S.	
7.11button4NO.\$7.12Supply and Installation of 3x16sq Armoured Cable12m\$7.13Supply and Installation of 2.5mm sq 4 core rhino cable3Coils\$7.14Supply and Installation of weather proof bell1NO.\$7.15Supply and Installation of Splice Box2NO.\$7.16Supply and Installation of 2mx4m Sensor4NO.\$7.17Supply and Installation of all Aluminum Mounting HardwareL.S.\$	
7.13Supply and Installation of 2.5mm sq 4 core rhino cable3Coils7.14Supply and Installation of weather proof bell1NO.7.15Supply and Installation of Splice Box2NO.7.16Supply and Installation of 2mx4m Sensor4NO.7.17Supply and Installation of all Aluminum Mounting HardwareL S	
7.14Supply and Installation of weather proof bell1NO.7.15Supply and Installation of Splice Box2NO.7.16Supply and Installation of 2mx4m Sensor4NO.7.17Supply and Installation of all Aluminum Mounting HardwareL.S.	
7.15   Supply and Installation of Splice Box   2   NO.   \$     7.16   Supply and Installation of 2mx4m Sensor   4   NO.   \$     7.17   Supply and Installation of all Aluminum Mounting Hardware   L.S.   \$	
7.16 Supply and Installation of 2mx4m Sensor 4 NO. \$   7.17 Supply and Installation of all Aluminum Mounting Hardware L.S. \$	
7 17 Supply and Installation of all Aluminum Mounting Hardware	
TOTAL FOR BILL 700	

#### UPGRADE OF OBSOLETE TRAFFIC SIGNAL CONTROL EQUIPMENT

#### Bill 800 -L7 – Duke Street / Picadilly Street

ITEM	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
8	Traffic Signal Control Equipment at L7				
8.01	Excavation of roadway to an average 305mm W x 560mm D trench.	7	cu m		\$
8.02	Supply and Place 4"schedule 40 PVC encased in 3000 PSI reinforced concrete, toped off by 4" asphalt	40	m		\$
8.03	Supply and Installation of 36"x48"x20" Concrete Plinth Cabinet inclusive of rebar cage	1	NO.		\$
8.04	Supply and Installation of Concrete Pole Base with 19" L x $5/8$ " diameter bolts and rebar cage	4	NO.		\$
8.05	Supply and Installation of 8 phase fully loaded TS2 Type 2 NEMA standard cabinet coordination ready inclusive of controller and 8 hour runtime UPS	1	NO.		\$
8.06	Supply and Installation of 12x12x12 LED Vehicular Signals	6	NO.		\$
8.07	Supply and Installation of 10 ' x 4 " Aluminum Pole and Square Aluminum Breakaway Base	4	NO.		\$
8.08	Supply and Installation of 21'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base	1	NO.		\$
8.09	Supply and Installation of 24' x 4" Galvanized Iron Pole	1	NO.		\$
8.10	Supply and Installation of Countdown Pedestrian Signals	8	NO.		\$
8.11	Supply and Installation of Accessible Pedestrian Push- button	4	NO.		\$
8.12	Supply and Installation of 3x16sq Armoured Cable	12	m		\$
8.13	Supply and Installation of 2.5mm sq 4 core rhino cable	3	Coils		\$
8.14	Supply and Installation of weather proof bell	1	NO.		\$
8.15	Supply and Installation of Splice Box	3	NO.		\$
8.16	Supply and Installation of 2mx4m Sensor	4	NO.		\$
8.17	Supply and Installation of all Aluminum Mounting Hardware required		L.S.		\$
	TOTAL FOR BILL 800				
	Total of Bill 800 Carried Forward to Summary				<u>ا</u>

#### UPGRADE OF OBSOLETE TRAFFIC SIGNAL CONTROL EQUIPMENT

#### Bill 900 -L8 – Charlotte Street / Park Street

ITEM	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
9	Traffic Signal Control Equipment at L8				
9.01	Excavation of roadway to an average 305mm W x 560mm D trench.	7	cu m	\$	
9.02	Supply and Place 4"schedule 40 PVC encased in 3000 PSI reinforced concrete, toped off by 4" asphalt	40	m	\$	
9.03	Supply and Installation of 36"x48"x20" Concrete Plinth Cabinet inclusive of rebar cage	1	NO.	\$	
9.04	Supply and Installation of Concrete Pole Base with 19" L x 5/8" diameter bolts and rebar cage	3	NO.	\$	
9.05	Supply and Installation of 8 phase fully loaded TS2 Type 2 NEMA standard cabinet coordination ready inclusive of controller and 8 hour runtime UPS	1	NO.	\$	
9.06	Supply and Installation of 12x12x12 LED Vehicular Signals	4	NO.	\$	
9.07	Supply and Installation of 10 ' x 4 " Aluminum Pole and Square Aluminum Breakaway Base	3	NO.	\$	
9.08	Supply and Installation of 21'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base	1	NO.	\$	
9.09	Supply and Installation of 24' x 4" Galvanized Iron Pole	1	NO.	\$	
9.10	Supply and Installation of Countdown Pedestrian Signals	8	NO.	\$	
9.11	Supply and Installation of Accessible Pedestrian Push- button	4	NO.	\$	
9.12	Supply and Installation of 3x16sq Armoured Cable	12	m	\$	
9.13	Supply and Installation of 2.5mm sq 4 core rhino cable	3	Coils	\$	
9.14	Supply and Installation of weather proof bell	1	NO.	\$	
9.15	Supply and Installation of Splice Box	2	NO.	\$	
9.16	Supply and Installation of 2mx4m Sensor	4	NO.	\$	
9.17	Supply and Installation of all Aluminum Mounting Hardware required		L.S.	\$	
	TOTAL FOR BILL 900 Total of Bill 900 Carried Forward to Summary				

#### UPGRADE OF OBSOLETE TRAFFIC SIGNAL CONTROL EQUIPMENT

#### Bill 1000 -L9 – Henry Street / Park Street

ITEM	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
10	Traffic Signal Control Equipment at L9				
10.01	Excavation of roadway to an average 305mm W x 560mm D trench.	7	cu m		\$
10.02	Supply and Place 4"schedule 40 PVC encased in 3000 PSI reinforced concrete, toped off by 4" asphalt	40	m		\$
10.03	Supply and Installation of 36"x48"x20" Concrete Plinth Cabinet inclusive of rebar cage	1	NO.		\$
10.04	Supply and Installation of Concrete Pole Base with 19" L x $5/8$ " diameter bolts and rebar cage	3	NO.		\$
10.05	Supply and Installation of 8 phase fully loaded TS2 Type 2 NEMA standard cabinet coordination ready inclusive of controller and 8 hour runtime UPS	1	NO.		\$
10.06	Supply and Installation of 12x12x12 LED Vehicular Signals	4	NO.		\$
10.07	Supply and Installation of 10 ' x 4 " Aluminum Pole and Square Aluminum Breakaway Base	3	NO.		\$
10.08	Supply and Installation of 21'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base	1	NO.		\$
10.09	Supply and Installation of 24' x 4" Galvanized Iron Pole	1	NO.		\$
10.10	Supply and Installation of Countdown Pedestrian Signals	8	NO.		\$
10.11	Supply and Installation of Accessible Pedestrian Push- button	4	NO.		\$
10.12	Supply and Installation of 3x16sq Armoured Cable	12	m		\$
10.13	Supply and Installation of 2.5mm sq 4 core rhino cable	3	Coils		\$
10.14	Supply and Installation of weather proof bell	1	NO.		\$
10.15	Supply and Installation of Splice Box	2	NO.		\$
10.16	Supply and Installation of 2mx4m Sensor	4	NO.		\$
10.17	Supply and Installation of all Aluminum Mounting Hardware required		L.S.		\$
	TOTAL FOR BILL 1000 Total of Bill 1000 Carried Forward to Summary				

#### UPGRADE OF OBSOLETE TRAFFIC SIGNAL CONTROL EQUIPMENT

#### Bill 1100 -L10 – Frederick Street / Park Street

ITEM	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
11	Traffic Signal Control Equipment at L10				
11.01	Excavation of roadway to an average 305mm W x 560mm D trench.	7	cu m		\$
11.02	Supply and Place 4"schedule 40 PVC encased in 3000 PSI reinforced concrete, toped off by 4" asphalt	40	m		\$
11.03	Supply and Installation of 36"x48"x20" Concrete Plinth Cabinet inclusive of rebar cage	1	NO.		\$
11.04	Supply and Installation of Concrete Pole Base with 19" L x $5/8$ " diameter bolts and rebar cage	3	NO.		\$
11.05	Supply and Installation of 8 phase fully loaded TS2 Type 2 NEMA standard cabinet coordination ready inclusive of controller and 8 hour runtime UPS	1	NO.		\$
11.06	Supply and Installation of 12x12x12 LED Vehicular Signals	4	NO.		\$
11.07	Supply and Installation of 10 ' x 4 " Aluminum Pole and Square Aluminum Breakaway Base	3	NO.		\$
11.08	Supply and Installation of 21'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base	1	NO.		\$
11.09	Supply and Installation of 24' x 4" Galvanized Iron Pole	1	NO.		\$
11.10	Supply and Installation of Countdown Pedestrian Signals	8	NO.		\$
11.11	Supply and Installation of Accessible Pedestrian Push- button	4	NO.		\$
11.12	Supply and Installation of 3x16sq Armoured Cable	12	m		\$
11.13	Supply and Installation of 2.5mm sq 4 core rhino cable	3	Coils		\$
11.14	Supply and Installation of weather proof bell	1	NO.		\$
11.15	Supply and Installation of Splice Box	2	NO.		\$
11.16	Supply and Installation of 2mx4m Sensor	4	NO.		\$
11.17	Supply and Installation of all Aluminum Mounting Hardware required		L.S.		\$
	TOTAL FOR BUL 1100				
	TOTAL FOR BILL 1100 Total of Bill 1100 Carried Forward to Summary				

#### UPGRADE OF OBSOLETE TRAFFIC SIGNAL CONTROL EQUIPMENT

#### <u>Bill 1200 -L11 – Pembroke Street / Park Street</u>

ITEM	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
12	Traffic Signal Control Equipment at L11				
12.01	Excavation of roadway to an average 305mm W x 560mm D trench.	7	cu m		\$
12.02	Supply and Place 4"schedule 40 PVC encased in 3000 PSI reinforced concrete, toped off by 4" asphalt	40	m		\$
12.03	Supply and Installation of 36"x48"x20" Concrete Plinth Cabinet inclusive of rebar cage	1	NO.		\$
12.04	Supply and Installation of Concrete Pole Base with 19" L x $5/8$ " diameter bolts and rebar cage	3	NO.		\$
12.05	Supply and Installation of 8 phase fully loaded TS2 Type 2 NEMA standard cabinet coordination ready inclusive of controller and 8 hour runtime UPS	1	NO.		\$
12.06	Supply and Installation of 12x12x12 LED Vehicular Signals	4	NO.		\$
12.07	Supply and Installation of 10 ' x 4 " Aluminum Pole and Square Aluminum Breakaway Base	3	NO.		\$
12.08	Supply and Installation of 21'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base	1	NO.		\$
12.09	Supply and Installation of 24' x 4" Galvanized Iron Pole	1	NO.		\$
12.10	Supply and Installation of Countdown Pedestrian Signals	8	NO.		\$
12.11	Supply and Installation of Accessible Pedestrian Push- button	4	NO.		\$
12.12	Supply and Installation of 3x16sq Armoured Cable	12	m		\$
12.13	Supply and Installation of 2.5mm sq 4 core rhino cable	3	Coils		\$
12.14	Supply and Installation of weather proof bell	1	NO.		\$
12.15	Supply and Installation of Splice Box	2	NO.		\$
12.16	Supply and Installation of 2mx4m Sensor	4	NO.		\$
12.17	Supply and Installation of all Aluminum Mounting Hardware required		L.S.		\$
	TOTAL FOR BILL 1200 Total of Bill 1200 Carried Forward to Summary				

#### UPGRADE OF OBSOLETE TRAFFIC SIGNAL CONTROL EQUIPMENT

#### Bill 1300 -L12 – Abercromby Street / Park Street

ITEM	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
13	Traffic Signal Control Equipment at L12				
13.01	Excavation of roadway to an average 305mm W x 560mm D trench.	7	cu m		\$
13.02	Supply and Place 4"schedule 40 PVC encased in 3000 PSI reinforced concrete, toped off by 4" asphalt	40	m		\$
13.03	Supply and Installation of 36"x48"x20" Concrete Plinth Cabinet inclusive of rebar cage	1	NO.		\$
13.04	Supply and Installation of Concrete Pole Base with 19" L x $5/8$ " diameter bolts and rebar cage	3	NO.		\$
13.05	Supply and Installation of 8 phase fully loaded TS2 Type 2 NEMA standard cabinet coordination ready inclusive of controller and 8 hour runtime UPS	1	NO.		\$
13.06	Supply and Installation of 12x12x12 LED Vehicular Signals	4	NO.		\$
13.07	Supply and Installation of 10 ' x 4 " Aluminum Pole and Square Aluminum Breakaway Base	3	NO.		\$
13.08	Supply and Installation of 21'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base	1	NO.		\$
13.09	Supply and Installation of 24' x 4" Galvanized Iron Pole	1	NO.		\$
13.10	Supply and Installation of Countdown Pedestrian Signals	8	NO.		\$
13.11	Supply and Installation of Accessible Pedestrian Push- button	4	NO.		\$
13.12	Supply and Installation of 3x16sq Armoured Cable	12	m		\$
13.13	Supply and Installation of 2.5mm sq 4 core rhino cable	3	Coils		\$
13.14	Supply and Installation of weather proof bell	1	NO.		\$
13.15	Supply and Installation of Splice Box	2	NO.		\$
13.16	Supply and Installation of 2mx4m Sensor	4	NO.		\$
13.17	Supply and Installation of all Aluminum Mounting Hardware required		L.S.		\$
	TOTAL FOR BILL 1300				
	Total of Bill 1300 Carried Forward to Summary				

#### UPGRADE OF OBSOLETE TRAFFIC SIGNAL CONTROL EQUIPMENT

#### Bill 1400 - L13 - St. Vincent Street / Park Street

ITEM	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
14	Traffic Signal Control Equipment at L13				
14.01	Excavation of roadway to an average 305mm W x 560mm D trench.	7	cu m		\$
14.02	Supply and Place 4"schedule 40 PVC encased in 3000 PSI reinforced concrete, toped off by 4" asphalt	40	m		\$
14.03	Supply and Installation of 36"x48"x20" Concrete Plinth Cabinet inclusive of rebar cage	1	NO.		\$
14.04	Supply and Installation of Concrete Pole Base with 19" L x 5/8" diameter bolts and rebar cage	3	NO.		\$
14.05	Supply and Installation of 8 phase fully loaded TS2 Type 2 NEMA standard cabinet coordination ready inclusive of controller and 8 hour runtime UPS	1	NO.		\$
14.06	Supply and Installation of 12x12x12 LED Vehicular Signals	4	NO.		\$
14.07	Supply and Installation of 10 ' x 4 " Aluminum Pole and Square Aluminum Breakaway Base	3	NO.		\$
14.08	Supply and Installation of 21'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base	1	NO.		\$
14.09	Supply and Installation of 24' x 4" Galvanized Iron Pole	1	NO.		\$
14.10	Supply and Installation of Countdown Pedestrian Signals	8	NO.		\$
14.11	Supply and Installation of Accessible Pedestrian Push- button	4	NO.		\$
14.12	Supply and Installation of 3x16sq Armoured Cable	12	m		\$
14.13	Supply and Installation of 2.5mm sq 4 core rhino cable	3	Coils		\$
14.14	Supply and Installation of weather proof bell	1	NO.		\$
14.15	Supply and Installation of Splice Box	2	NO.		\$
14.16	Supply and Installation of 2mx4m Sensor	4	NO.		\$
14.17	Supply and Installation of all Aluminum Mounting Hardware required		L.S.		\$
	TOTAL FOR BILL 1400				
	Total of Bill 1400 Carried Forward to Summary				I

#### UPGRADE OF OBSOLETE TRAFFIC SIGNAL CONTROL EQUIPMENT

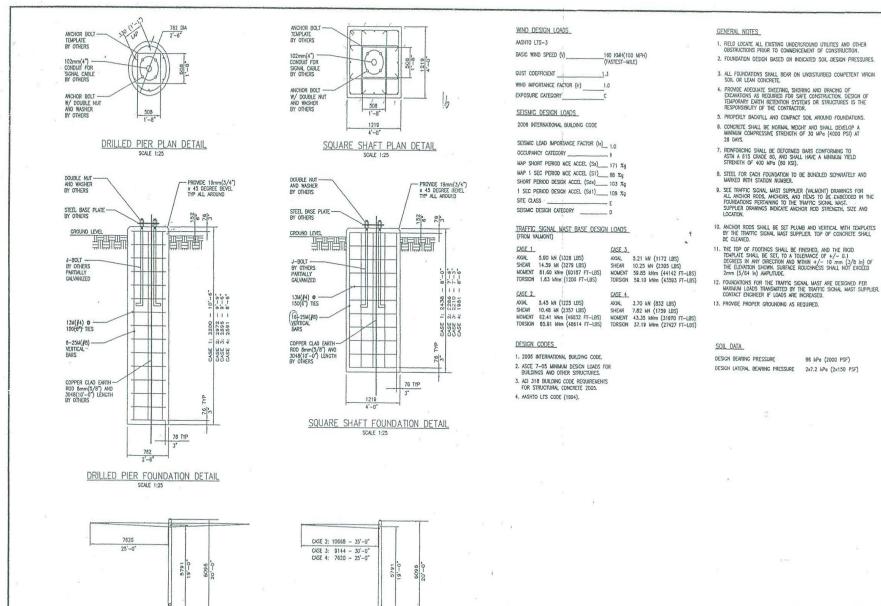
#### Bill 1500 -L14 – Edward Street / Park Street

ITEM	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
15	Traffic Signal Control Equipment at L14				
15.01	Excavation of roadway to an average 305mm W x 560mm D trench.	7	cu m		\$
15.02	Supply and Place 4"schedule 40 PVC encased in 3000 PSI reinforced concrete, toped off by 4" asphalt	40	m		\$
15.03	Supply and Installation of 36"x48"x20" Concrete Plinth Cabinet inclusive of rebar cage	1	NO.		\$
15.04	Supply and Installation of Concrete Pole Base with 19" L x $5/8$ " diameter bolts and rebar cage	3	NO.		\$
15.05	Supply and Installation of 8 phase fully loaded TS2 Type 2 NEMA standard cabinet coordination ready inclusive of controller and 8 hour runtime UPS	1	NO.		\$
15.06	Supply and Installation of 12x12x12 LED Vehicular Signals	4	NO.		\$
15.07	Supply and Installation of 10 ' x 4 " Aluminum Pole and Square Aluminum Breakaway Base	3	NO.		\$
15.08	Supply and Installation of 21'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base	1	NO.		\$
15.09	Supply and Installation of 24' x 4" Galvanized Iron Pole	1	NO.		\$
15.10	Supply and Installation of Countdown Pedestrian Signals	8	NO.		\$
15.11	Supply and Installation of Accessible Pedestrian Push- button	4	NO.		\$
15.12	Supply and Installation of 3x16sq Armoured Cable	12	m		\$
15.13	Supply and Installation of 2.5mm sq 4 core rhino cable	3	Coils		\$
15.14	Supply and Installation of weather proof bell	1	NO.		\$
15.15	Supply and Installation of Splice Box	2	NO.		\$
15.16	Supply and Installation of 2mx4m Sensor	4	NO.		\$
15.17	Supply and Installation of all Aluminum Mounting Hardware required		L.S.		\$
	TOTAL FOR BILL 1500				
	Total of Bill 1500 Carried Forward to Summary				1

#### UPGRADE OF OBSOLETE TRAFFIC SIGNAL CONTROL EQUIPMENT

#### Bill 1600 -L15 - Richmond Street / Park Street

ITEM	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
16	Traffic Signal Control Equipment at L15				
16.01	Excavation of roadway to an average 305mm W x 560mm D trench.	7	cu m		\$
16.02	Supply and Place 4"schedule 40 PVC encased in 3000 PSI reinforced concrete, toped off by 4" asphalt	40	m		\$
16.03	Supply and Installation of 36"x48"x20" Concrete Plinth Cabinet inclusive of rebar cage	1	NO.		\$
16.04	Supply and Installation of Concrete Pole Base with 19" L x $5/8$ " diameter bolts and rebar cage	3	NO.		\$
16.05	Supply and Installation of 8 phase fully loaded TS2 Type 2 NEMA standard cabinet coordination ready inclusive of controller and 8 hour runtime UPS	1	NO.		\$
16.06	Supply and Installation of 12x12x12 LED Vehicular Signals	4	NO.		\$
16.07	Supply and Installation of 10 ' x 4 " Aluminum Pole and Square Aluminum Breakaway Base	3	NO.		\$
16.08	Supply and Installation of 21'x 25'-30'ft aesthetically pleasing decorative mast arm inclusive of mast arm concrete base	1	NO.		\$
16.09	Supply and Installation of 24' x 4" Galvanized Iron Pole	1	NO.		\$
16.10	Supply and Installation of Countdown Pedestrian Signals	8	NO.		\$
16.11	Supply and Installation of Accessible Pedestrian Push- button	4	NO.		\$
16.12	Supply and Installation of 3x16sq Armoured Cable	12	m		\$
16.13	Supply and Installation of 2.5mm sq 4 core rhino cable	3	Coils		\$
16.14	Supply and Installation of weather proof bell	1	NO.		\$
16.15	Supply and Installation of Splice Box	2	NO.		\$
16.16	Supply and Installation of 2mx4m Sensor	4	NO.		\$
16.17	Supply and Installation of all Aluminum Mounting Hardware required		L.S.		\$
	TOTAL FOR BILL 1600				
	Total of Bill 1600 Carried Forward to Summary				!



TRAFFIC SIGNAL MAST SCHEMATIC TRAFFIC SIGNAL MAST SCHEMATIC DRAWING NOT TO BE SCALED 2000 M DN DRIGINAL DRAVING CASE 1 CASE 2, 3 & 4 DRAWING NOT TO BE SCALED. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN. DATE DRAWN BY DRAWING No. DATE MINSITRY OF WORKS AND TRANSPORT POK 2010/07/13 S04 ESIGNED BY DRI, SCALE: TRAFFIC SIGNAL MAST ARM SHEET No. WBK AS SHOWN FOUNDATION DETAILS 28

No. REVISION

APPROVED BY WBK

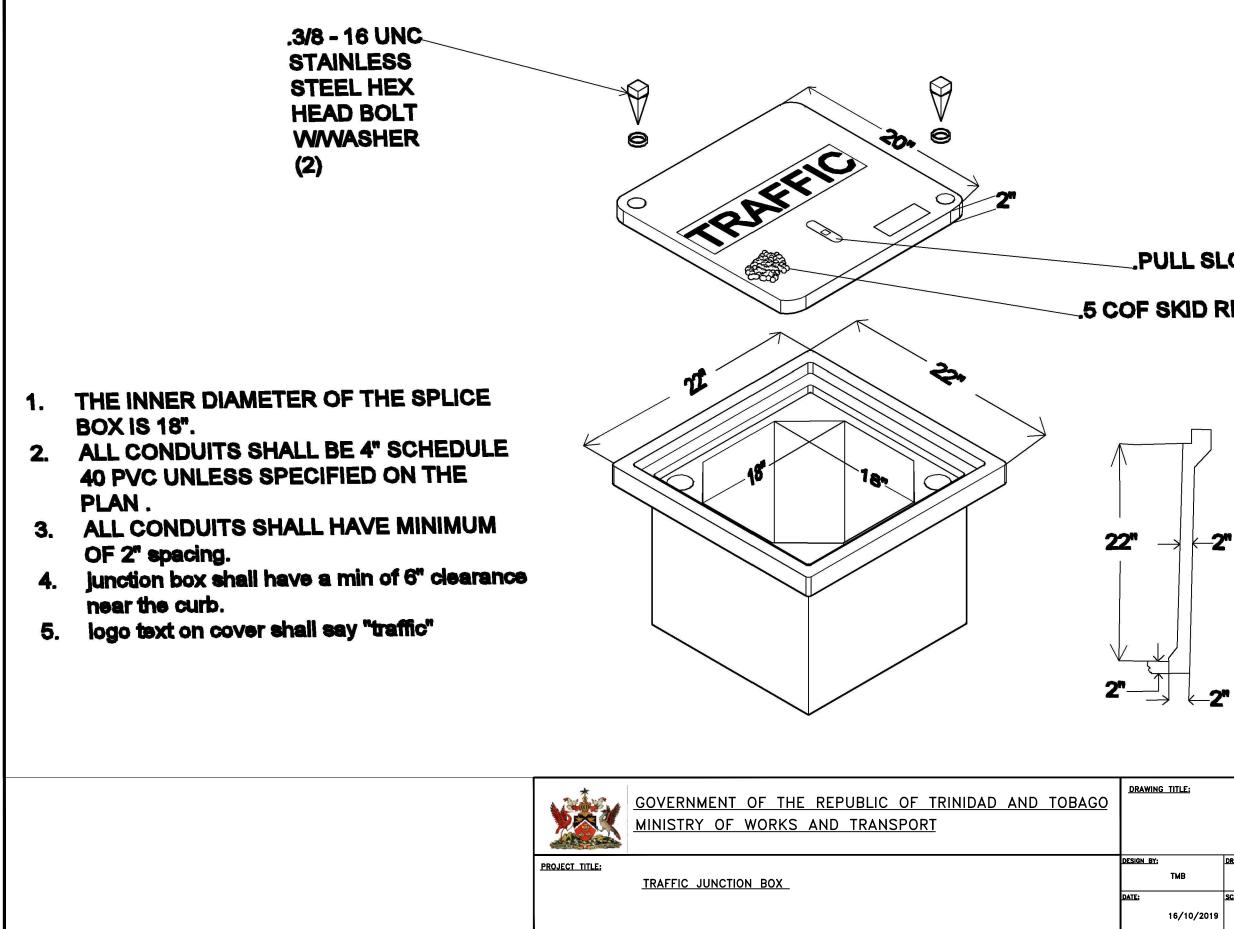
SUPPLIER DRAWINGS INDICATE ANCHOR ROD STRENGTH, SIZE AND

ANCHOR RODS SHALL BE SET PLUMB AND VERTICAL WITH TEMPLATES BY THE TRAFFIC SIGNAL MAST SUPPLIER. TOP OF CONCRETE SHALL BE CLEANED.

SEE TRAFFIC SIGNAL MAST SUPPLIER (VALMONT) DRAWINGS FOR ALL ANCHOR RODS, ANCHORS, AND ITEMS TO BE EXBEDDED IN THE FOUNDATIONS PERTAINING TO THE TRAFFIC SIGNAL MAST.

5. PROPERLY BACKFILL AND COMPACT SOIL AROUND FOUNDATIONS.

6. CONCRETE SHALL BE NORMAL WEICHT AND SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 30 MPa (4000 PSI) AT



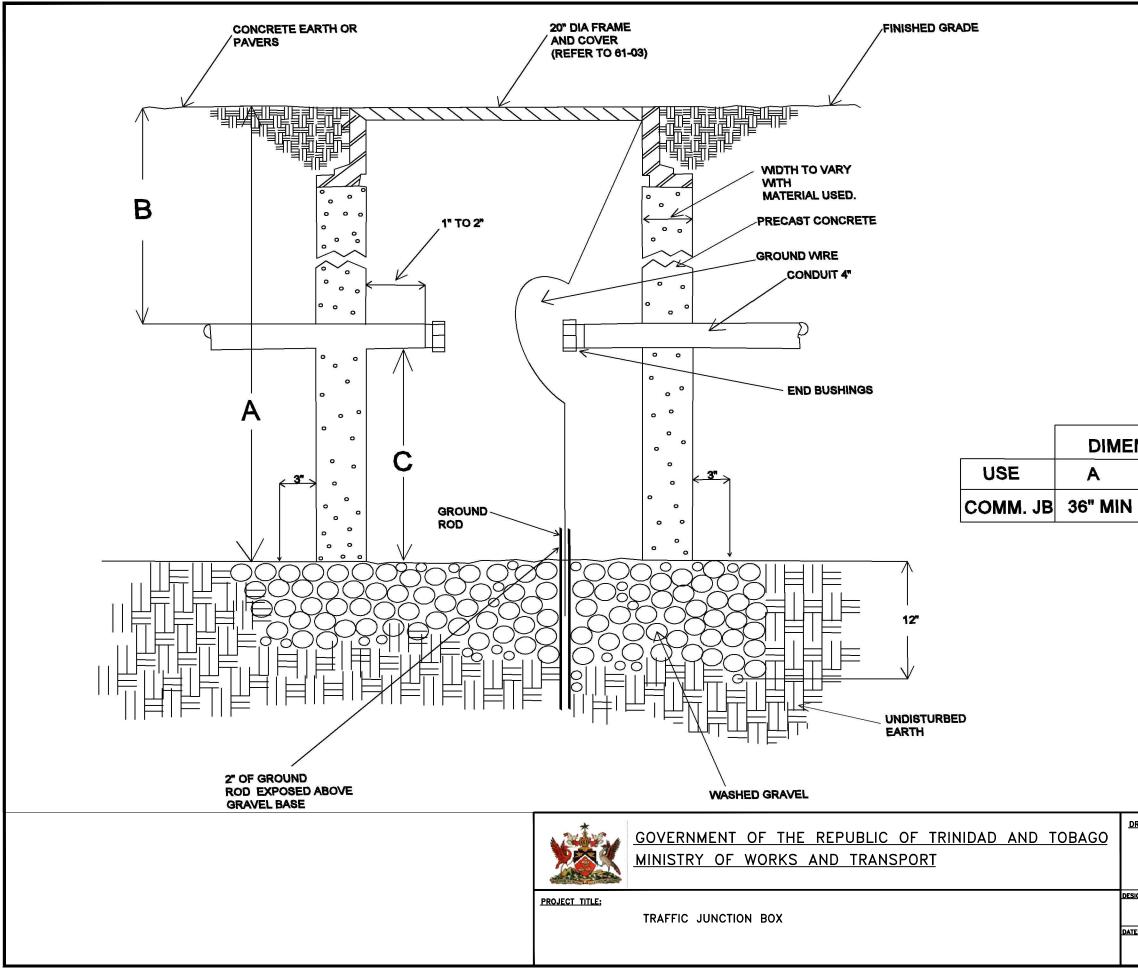


# PULL SLOT.

# .5 COF SKID RESISTANT SURFACE

#### SMALL JUNCTION BOX

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16	/10/2019	N.T.S.	-	



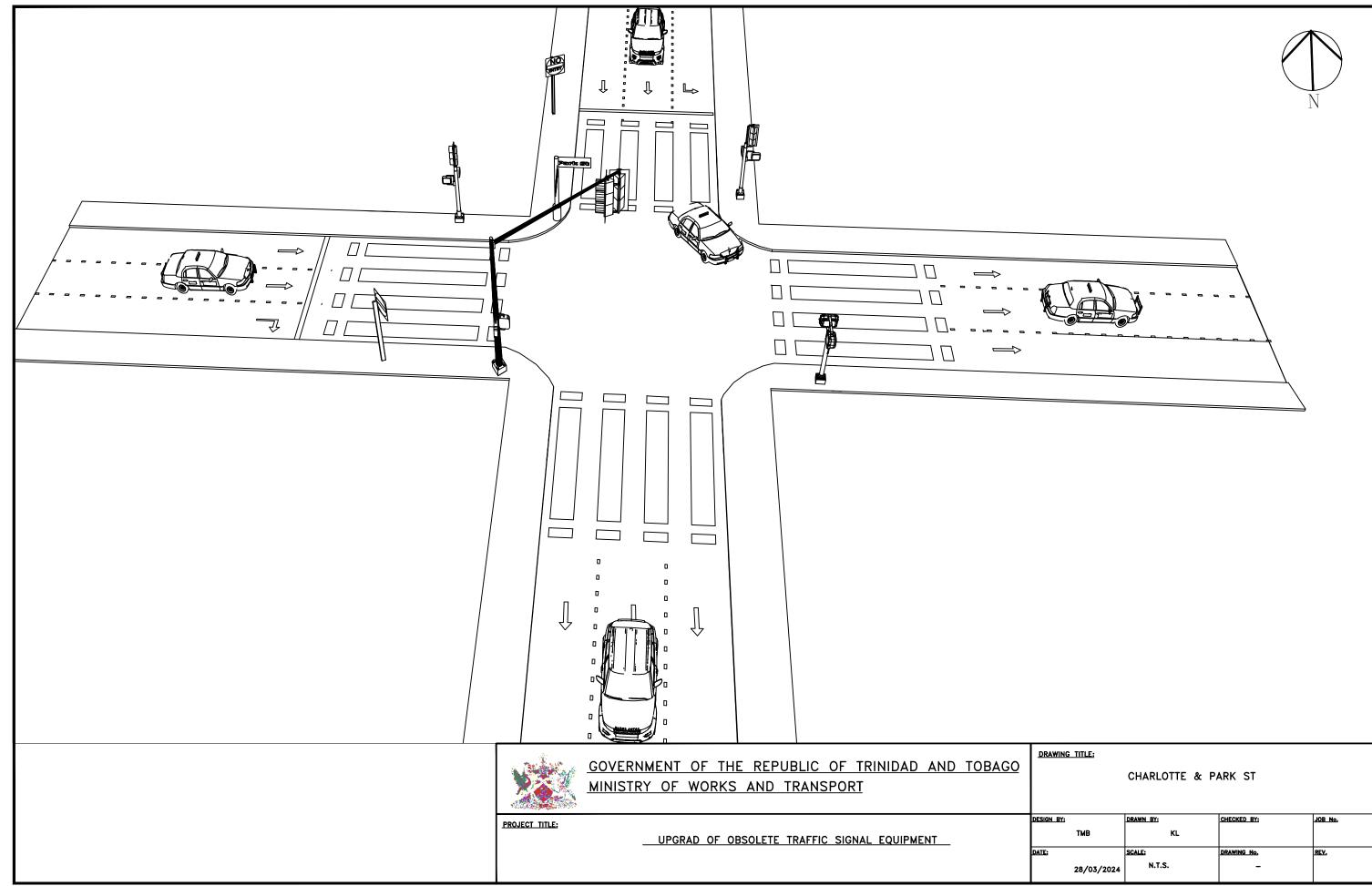


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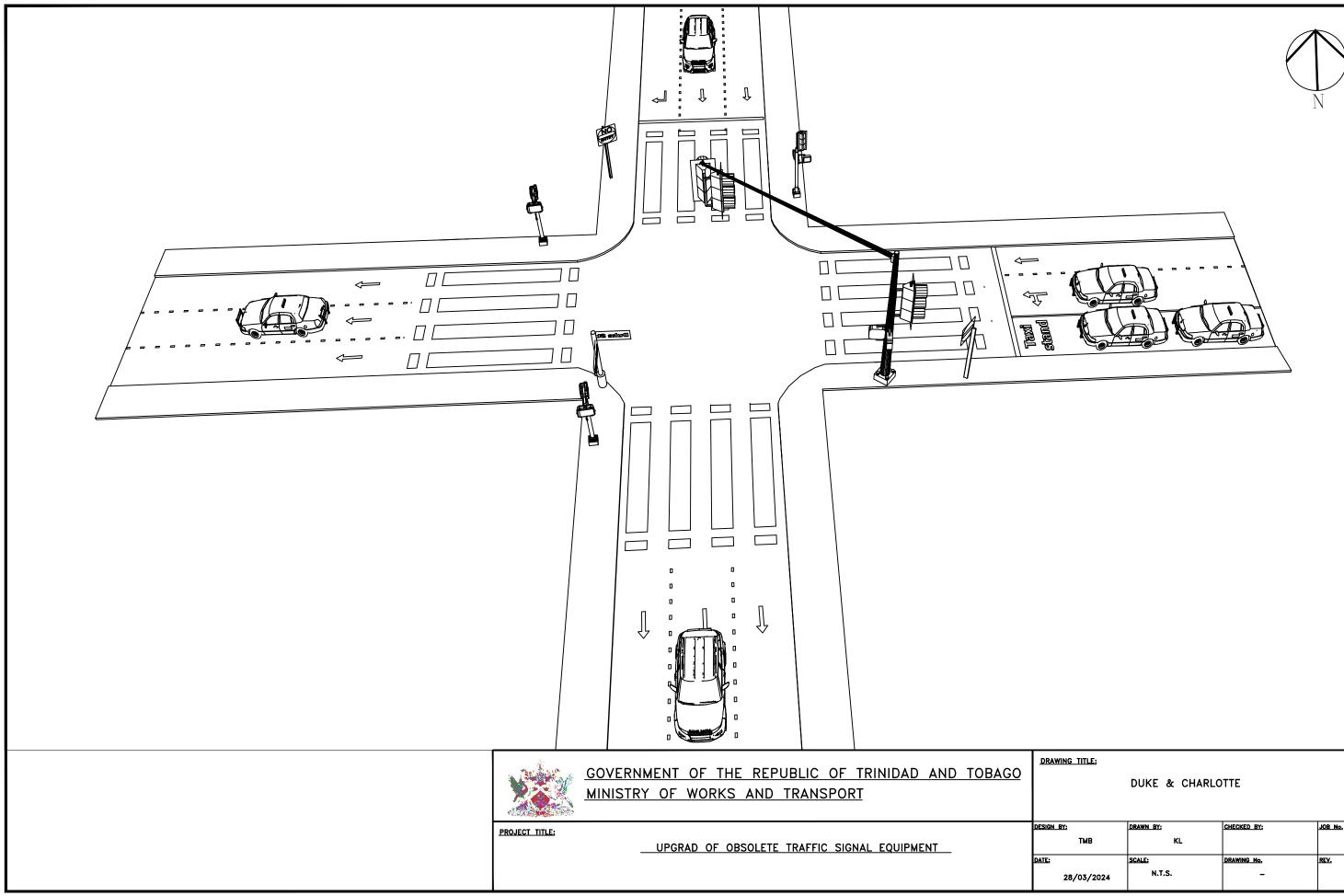
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JUNCTION BOX

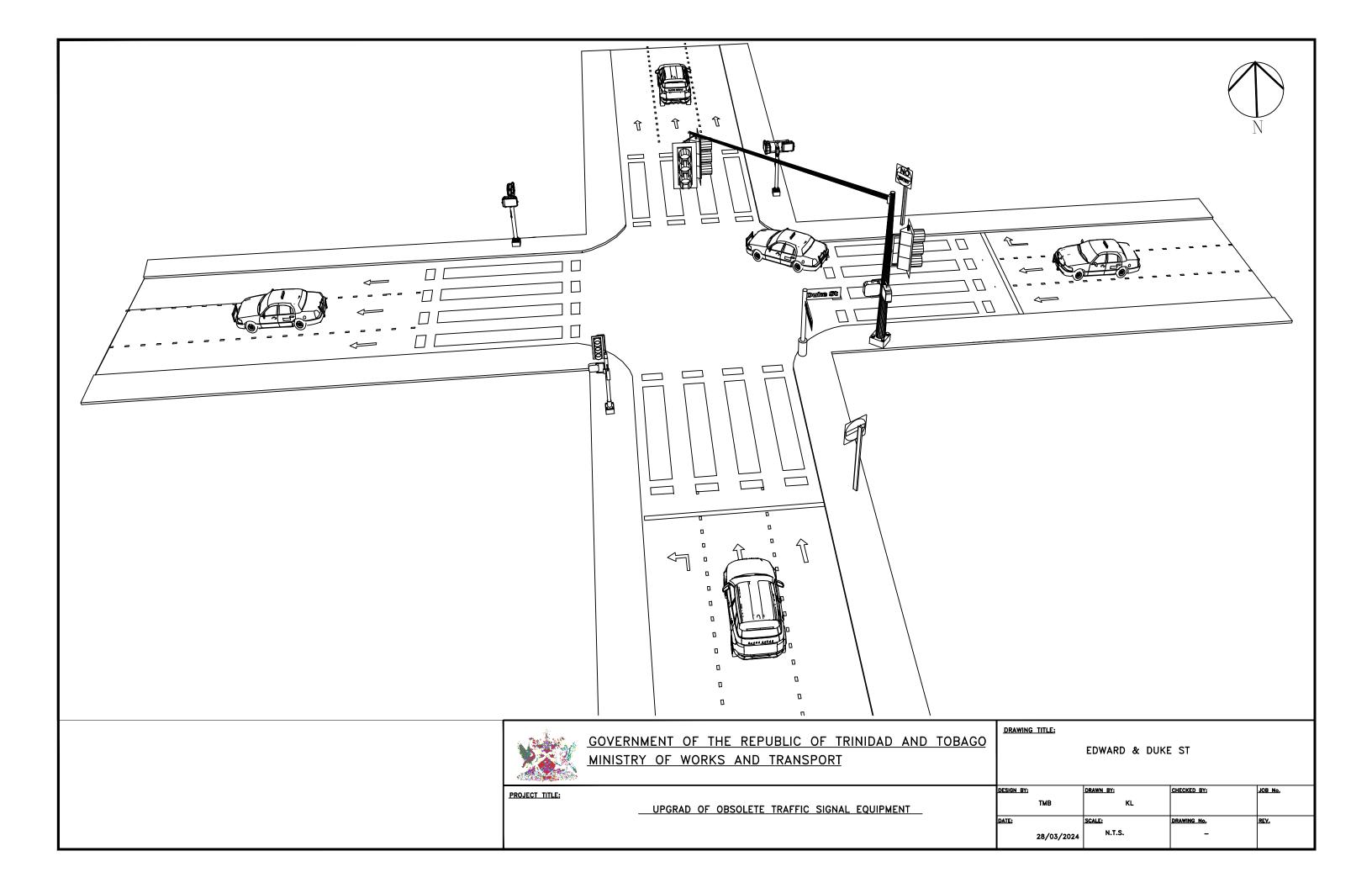
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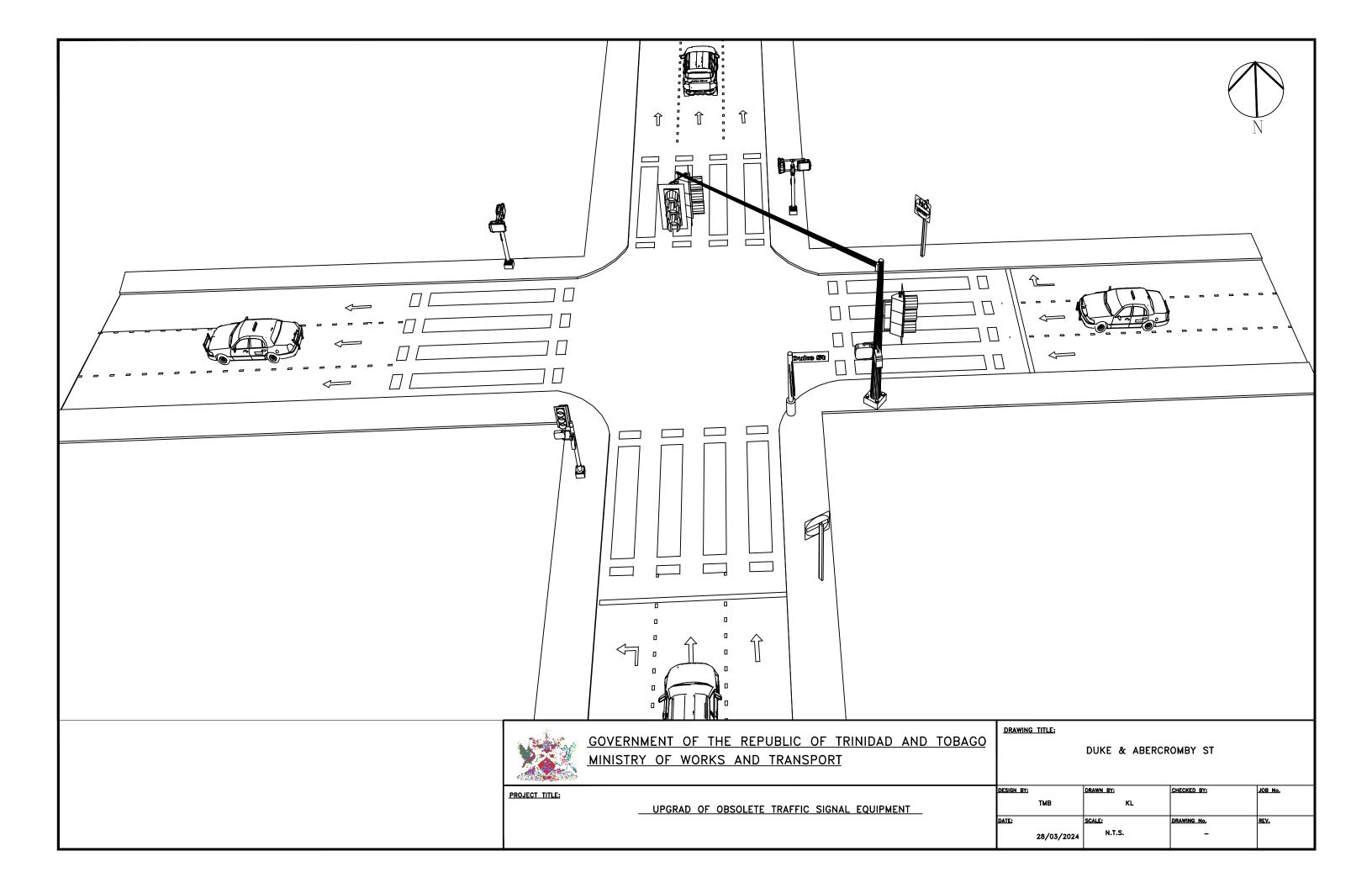


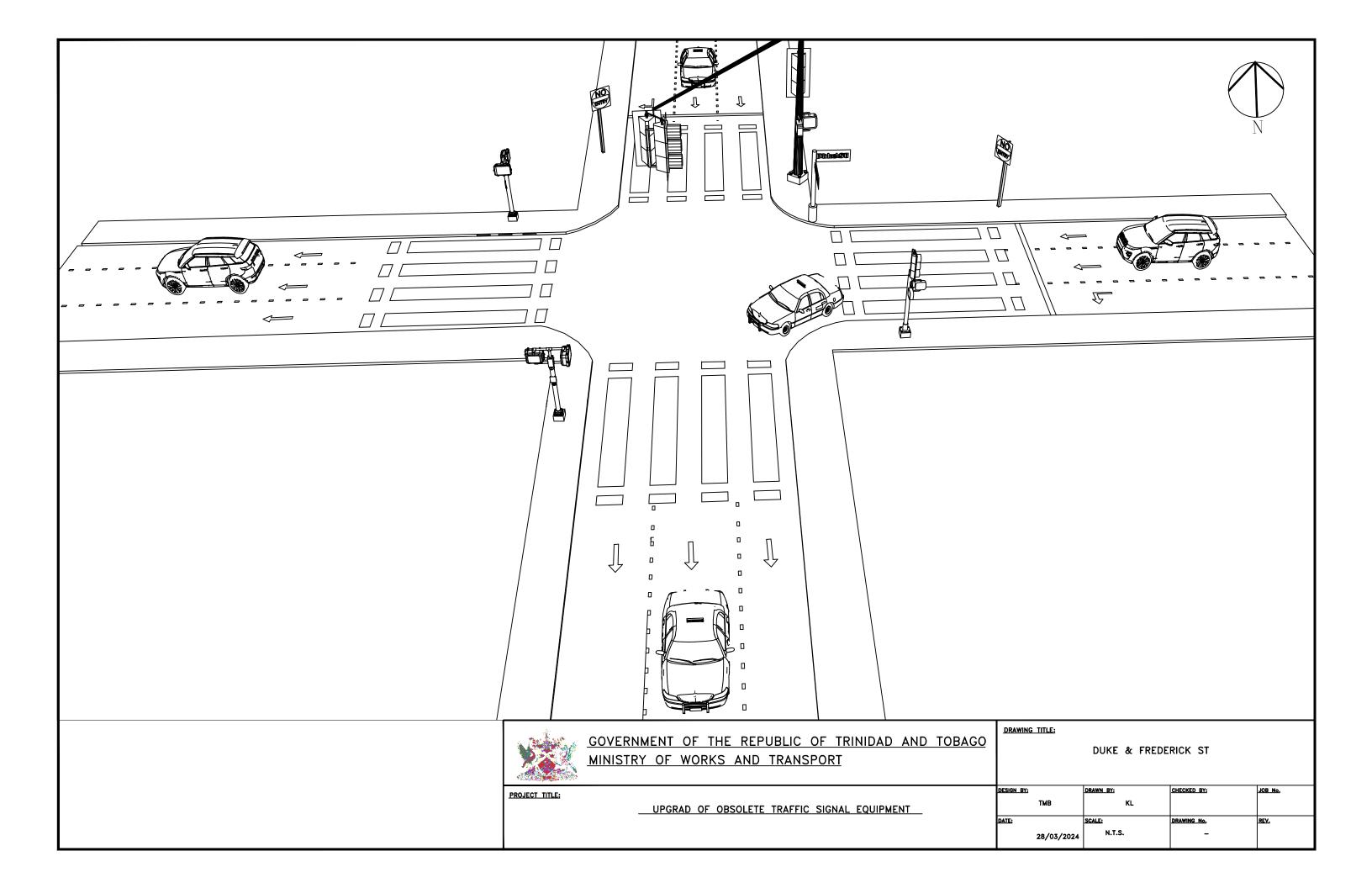
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28/03/2024	N.T.S.	-	

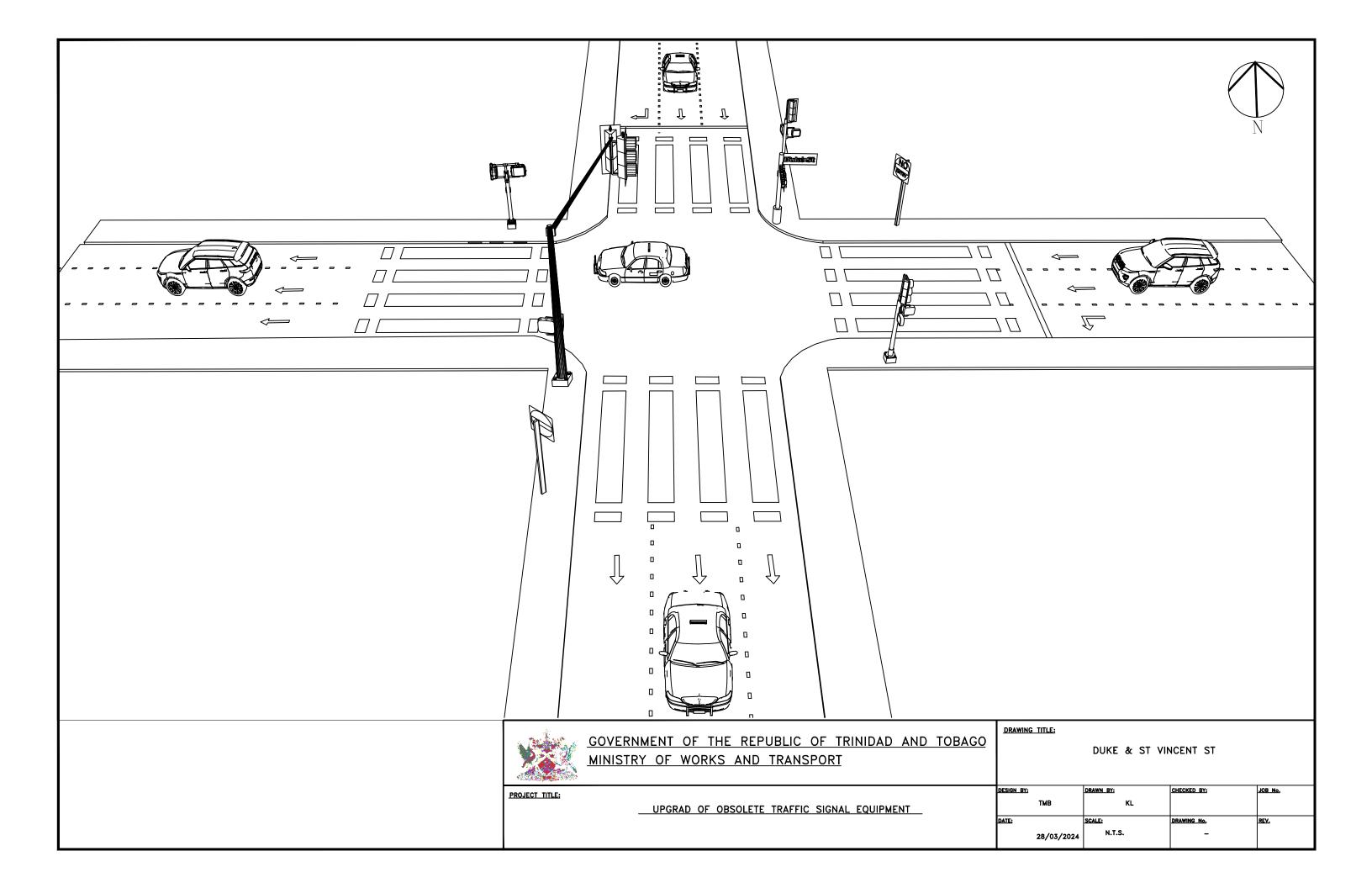


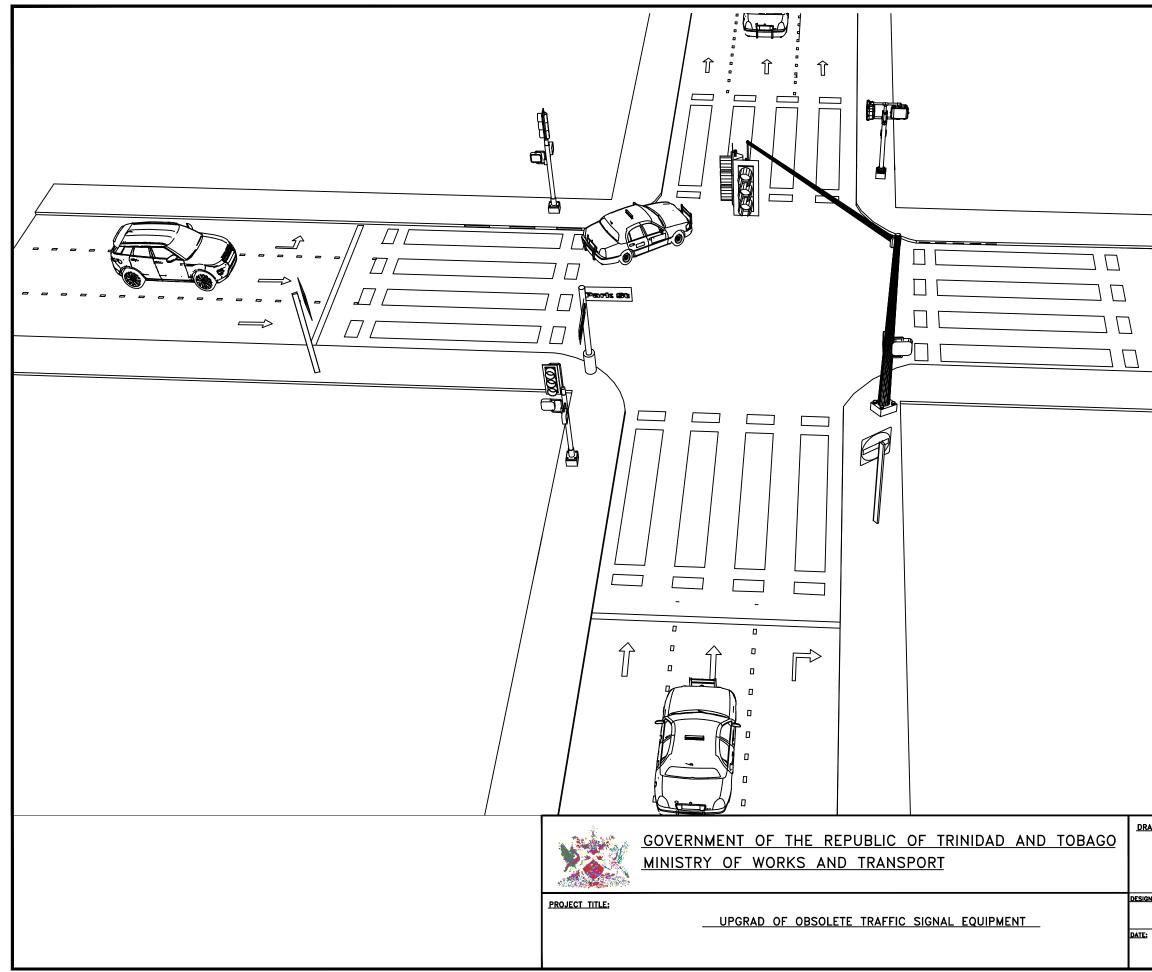
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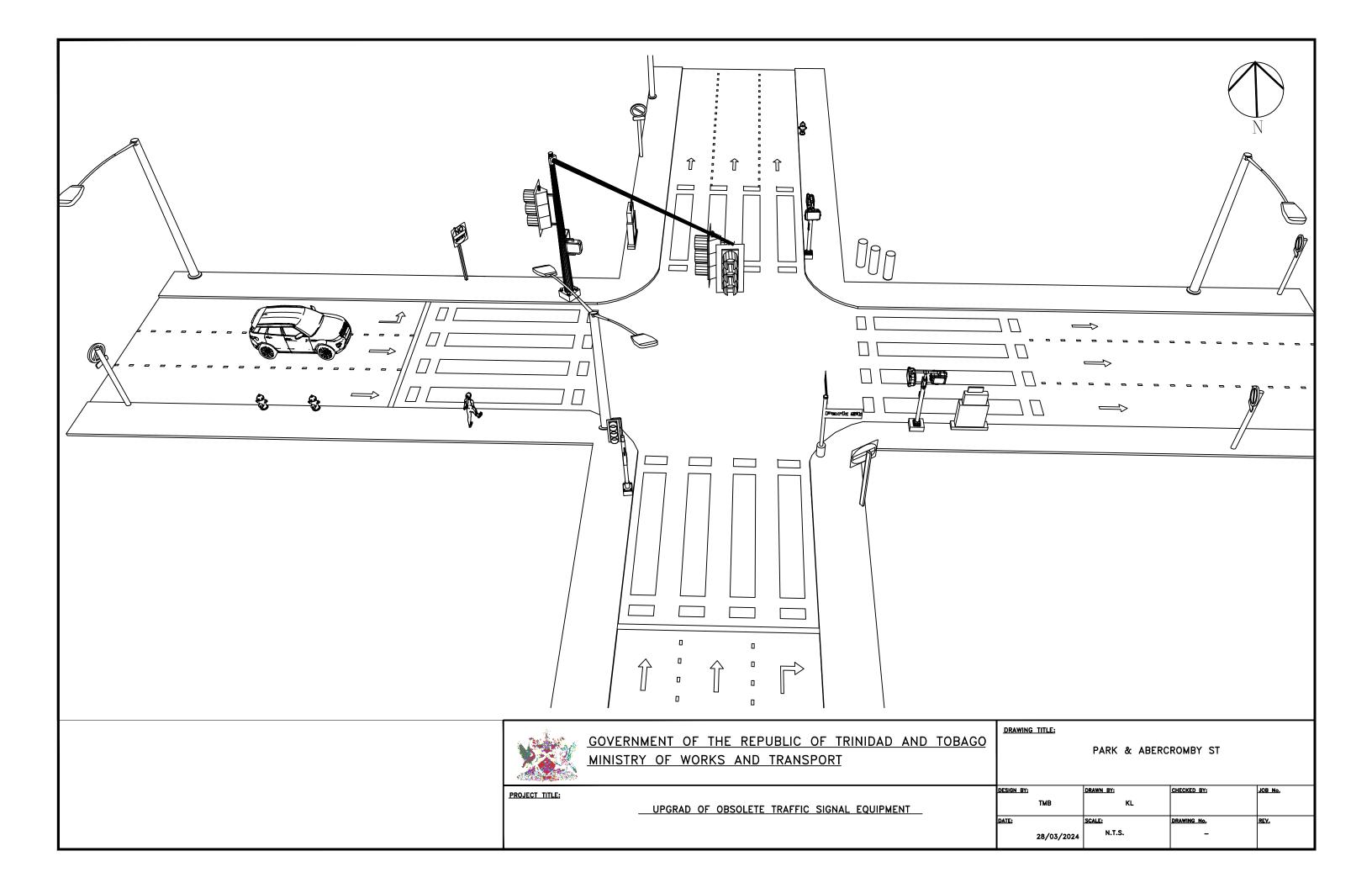


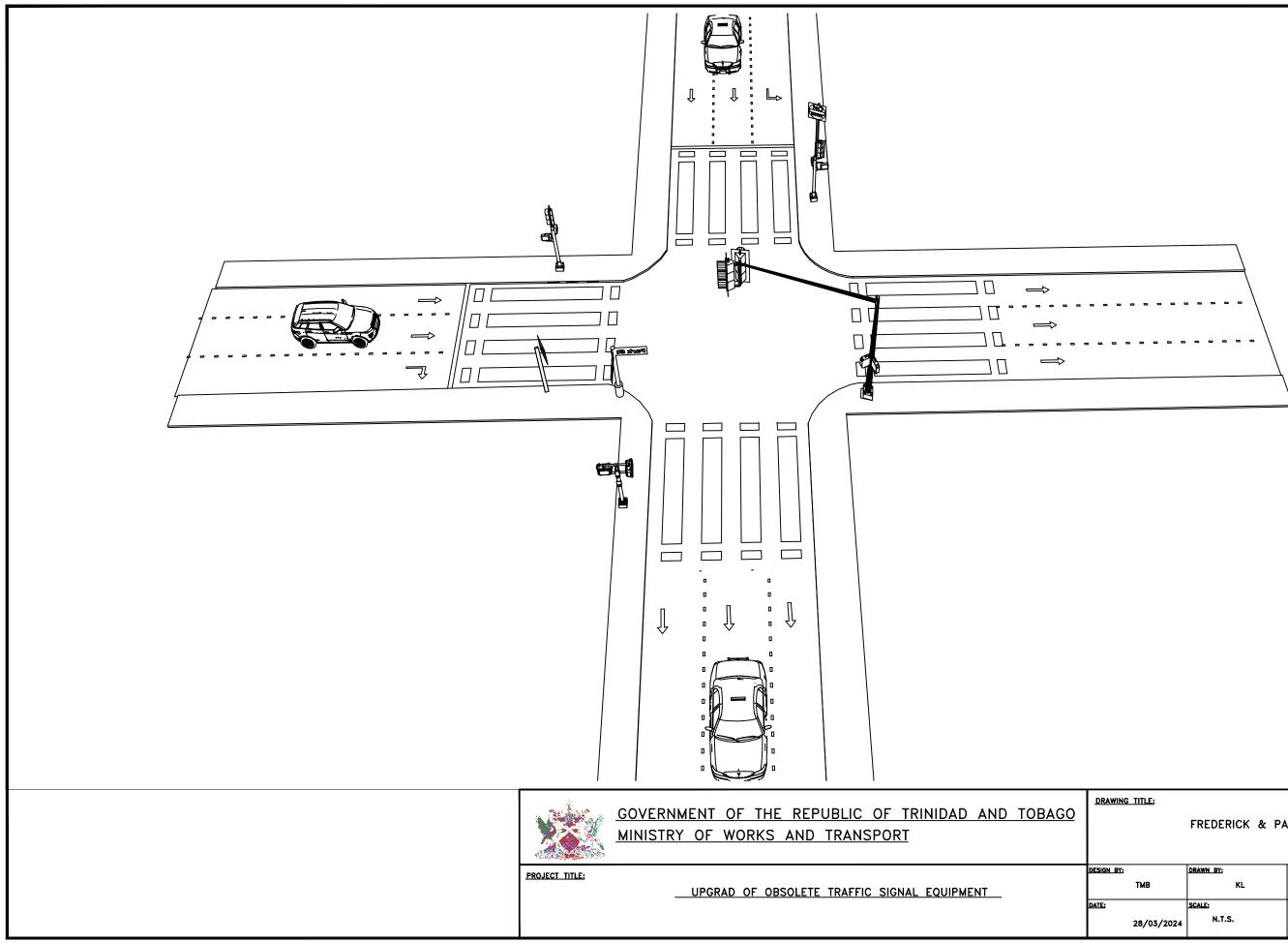






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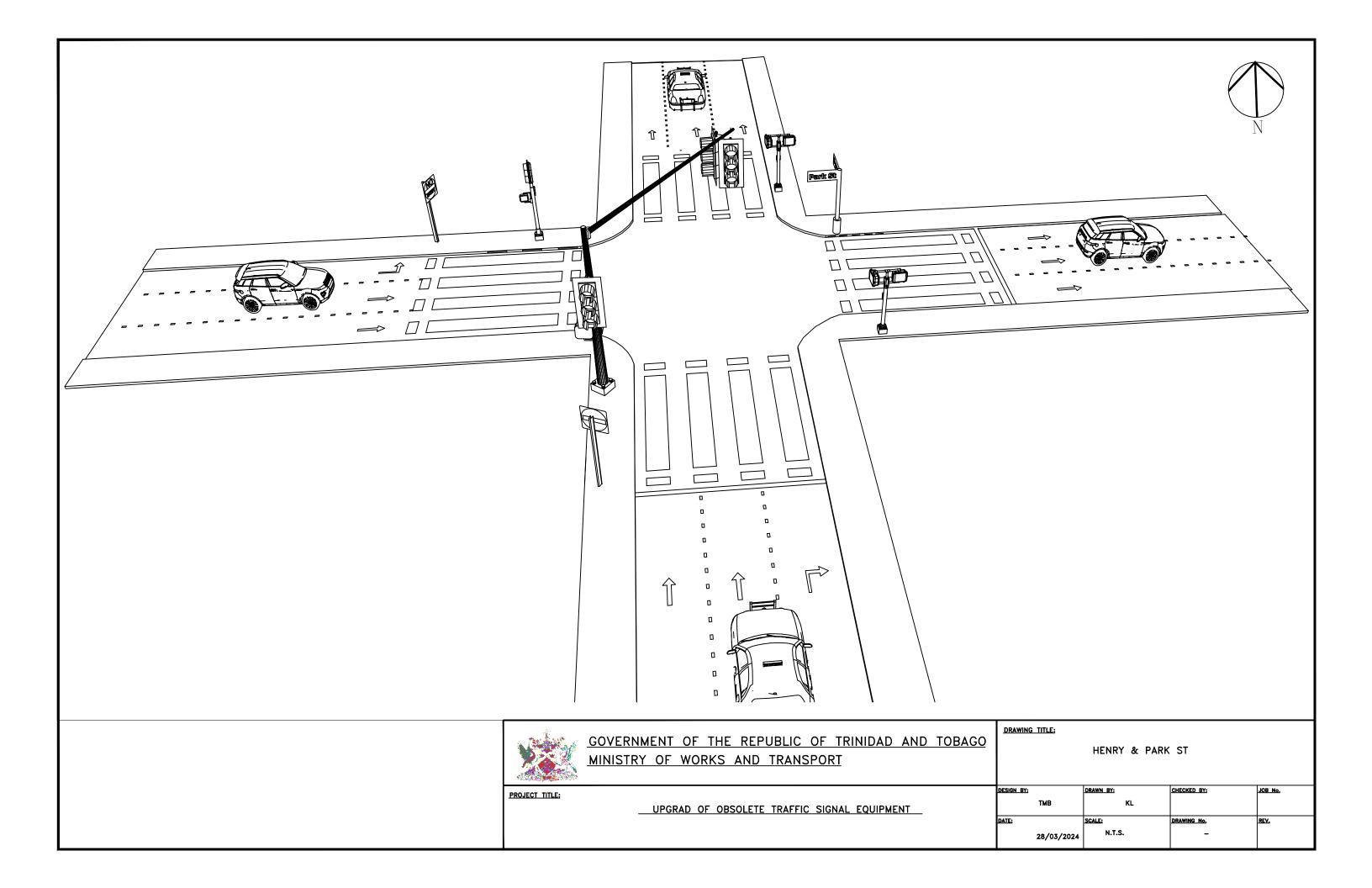


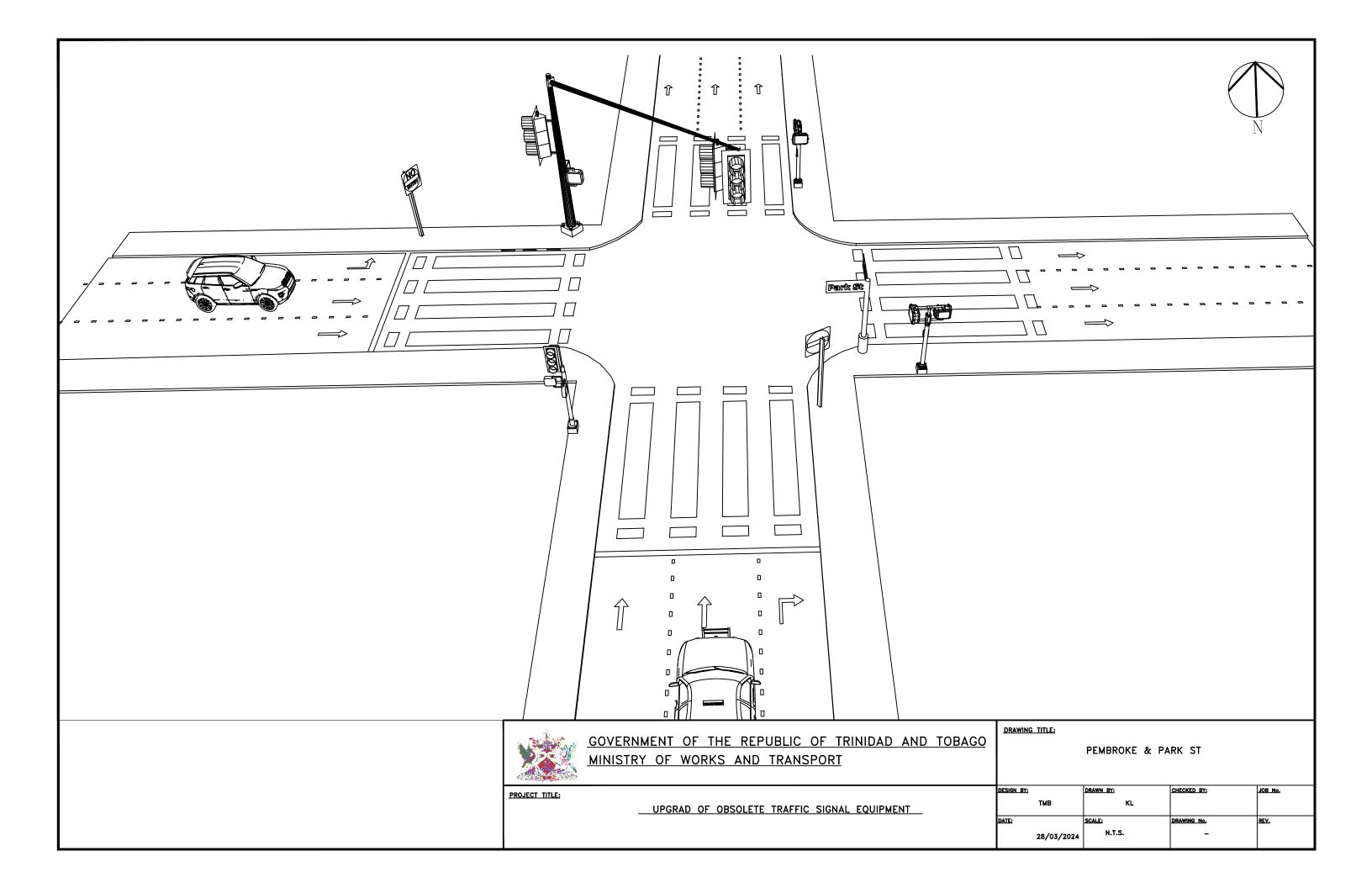


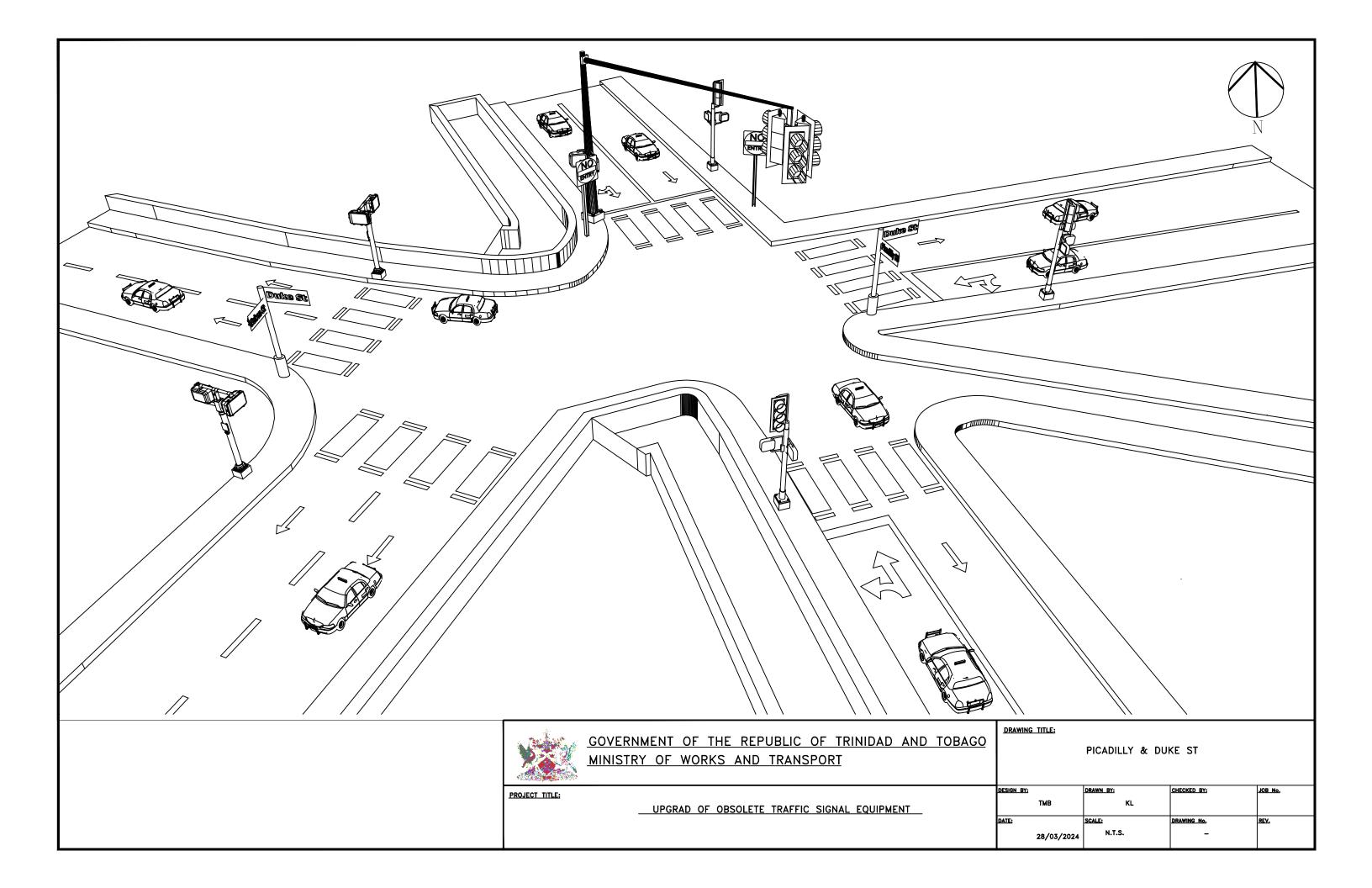


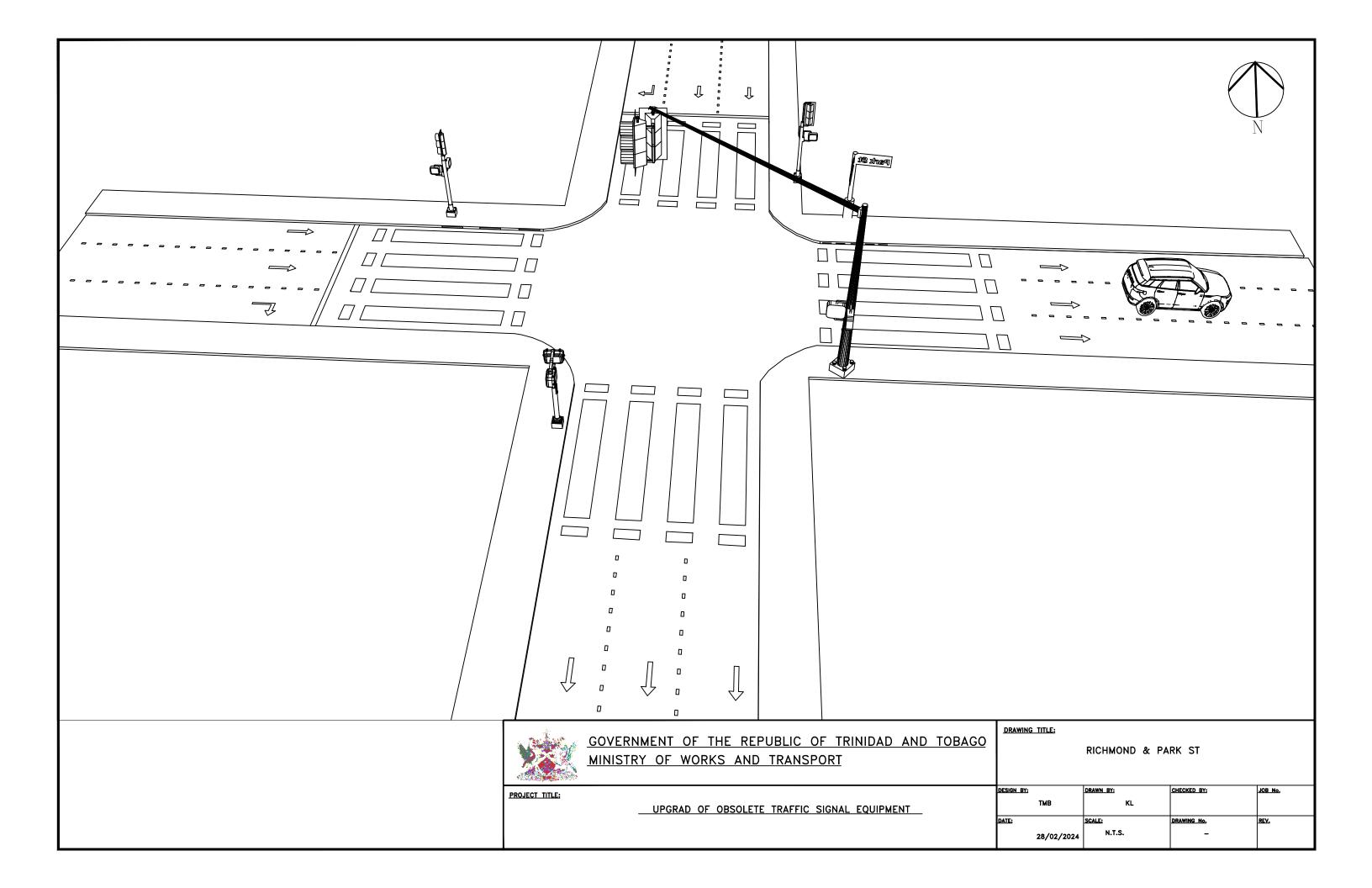
#### FREDERICK & PARK ST

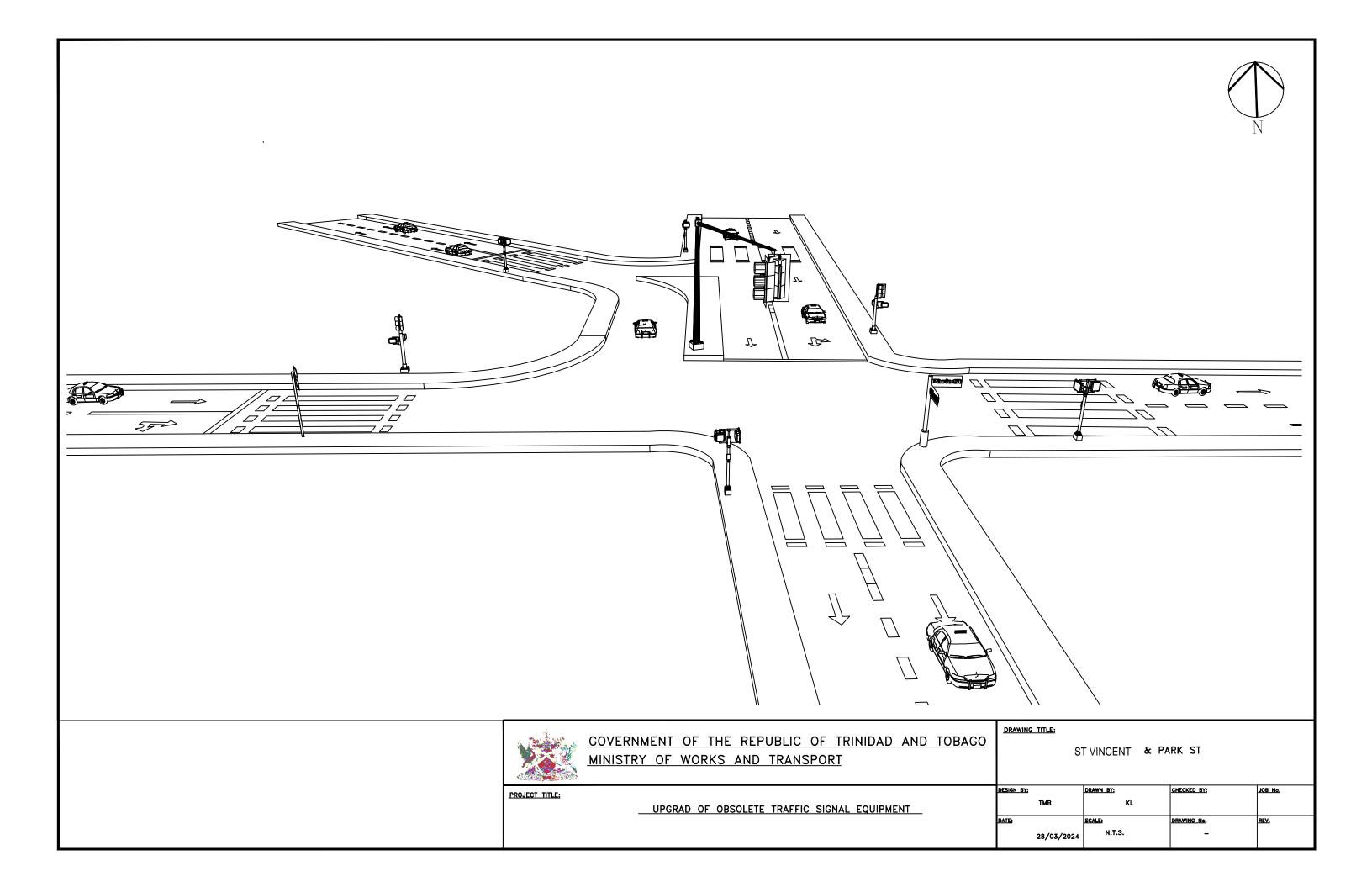
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28/03/2024	N.T.S.	-	

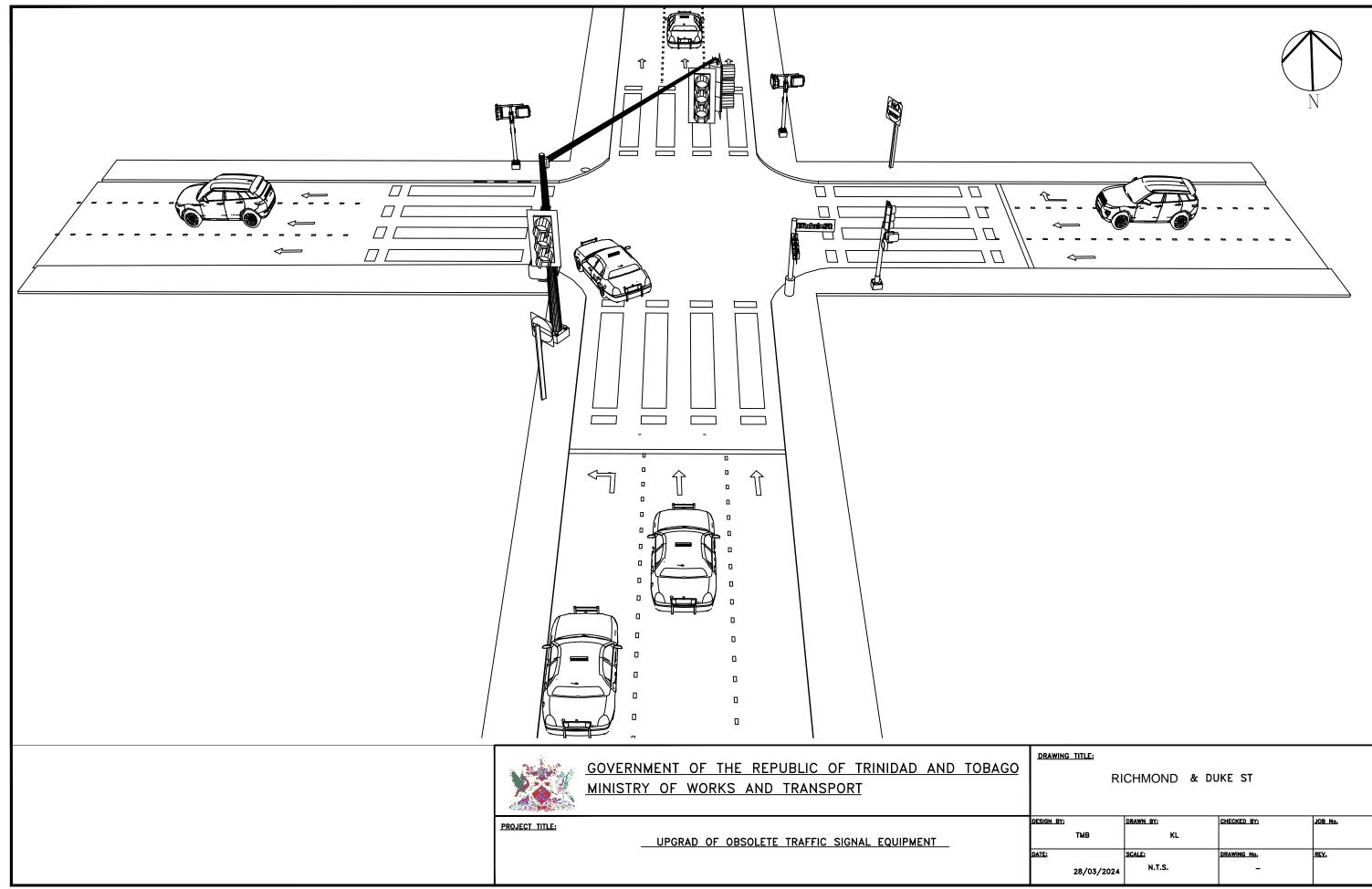












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