

#### Addendum No. 1

# City of Coquitlam Tender 79057 New Traffic Signal and Intersection Improvements at Coast Meridian Road and Highland Drive

(Consists of 5 Pages)

Issue Date: July 30, 2024

Tenderers shall note the following changes:

### **REVISIONS:**

1. REFER to: FORM OF TENDER

REMOVE: Appendix 1

REPLACE WITH: REVISED - Appendix 1 - Revision No. 1

2. REFER to: FORM OF TENDER and AGREEMENT

REVISED SUBSTANTIAL COMPLETION DATE: October 31, 2024
Substantial Completion Date Extension to October 31, 2024

3. REFER to: SUPPLEMENTARY CONTRACT SPECIFICATIONS

**SECTION 03 30 20S (CONCRETE WALKS, CURBS, AND GUTTERS)** 

**CLAUSE 1.4.3 (Measurement and Payment)** 

**REMOVE:** Payment for excavation and disposal of excavated material will all be considered as included under this item.

#### **REPLACE WITH:**

Payment for excavation and disposal of excavated material will be made under payment item, Common Excvation – Offsite Disposal, in the Schedule of Quantities and Prices.

## 4. REFER to: AGREEMENT, Schedule 2 (LIST OF DRAWINGS)

#### **DELETE:**

DMD & ASSOCIATES – ELECTRICAL CONSULTANTS LTD.	SHEET NO.	REVISION NO.	DATE
COAST MERIDIAN ROAD AND HIGHLAND DRIVE TRAFFIC SIGNAL SITE PLAN, LEGEND AND NOTES	3 OF 4	1	2024-07-12
COAST MERIDIAN ROAD AND HIGHLAND DRIVE TRAFFIC SIGNAL ELEVATIONS	4 OF 4	1	2024-07-12

#### **REPLACE WITH:**

DMD & ASSOCIATES – ELECTRICAL CONSULTANTS LTD.	SHEET NO.	REVISION NO.	DATE
COAST MERIDIAN ROAD AND HIGHLAND DRIVE TRAFFIC SIGNAL SITE PLAN, LEGEND AND NOTES	3 OF 4	2	2024-07-16

COAST MERIDIAN ROAD AND HIGHLAND DRIVE	4 OF 4	2	2024-07-16
TRAFFIC SIGNAL ELEVATIONS	4014	2	2024-07-10

#### **CONTRACTOR QUESTIONS AND CLARIFICATIONS:**

- Q1) Would you please consider a later substantial completion date for this project? It appears some of the electrical contractors may be at capacity and will not be able to complete this project before September?
- All construction work shall be completed by the substantial completion date (October 31, 2024).

  Upon request by the Contractor, an exception may be granted for installation of any particular long delivery item.

#### End of Addendum No. 1

Tenderers shall take into account the content of this Addendum in the preparation and submission of the Tender which will form part of the contract and should be acknowledged on the Tender form where indicated.

Upon submitting a Tender, Tenderers will be deemed to have received all addenda and considered the information for inclusion in the Tender submitted.

Issued by:

M. Pain

Procurement Manager Email: bid@coquitlam.ca

## REVISED - APPENDIX 1- Revision No.1 FORM OF TENDER

#### Contract 79057

### New Traffic Signal and Intersection Improvements at Coast Meridian Road and Highland Drive

#### **SCHEDULE OF QUANTITIES AND PRICES**

(see paragraph 5.3.1 of the Instruction to Tenderers)

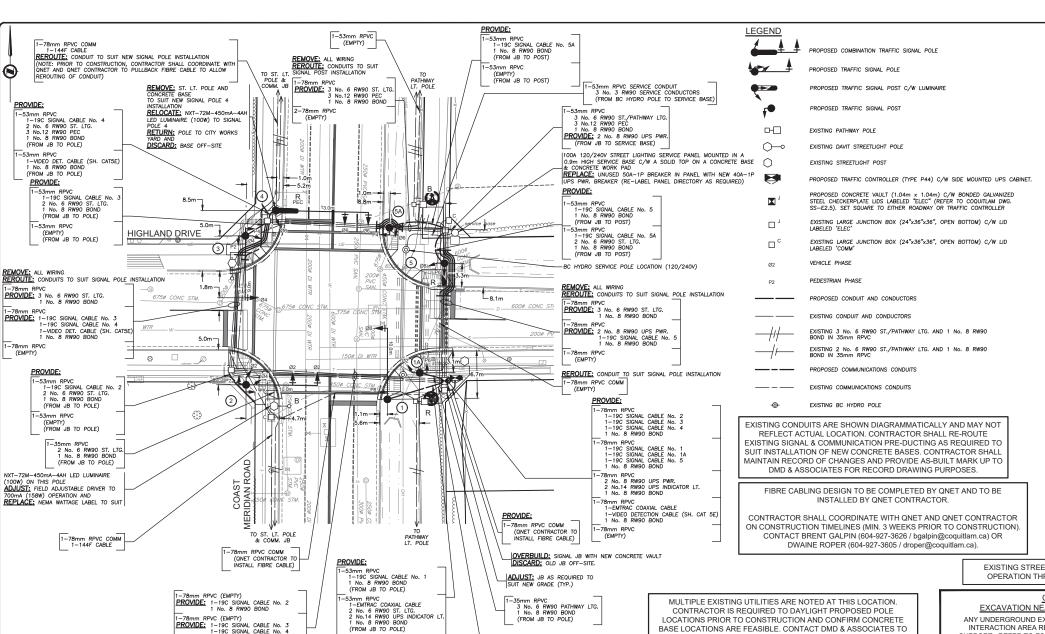
(All Tender and Contract Prices shall NOT include GST. GST will apply upon payment) (Should there be any discrepancy in the information provided, the City's original file copy shall prevail)

ITEM NO.	MMCD Ref. / (Supp. Specs)	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT
1.00	01 55 005	TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING				
1.01	(1.5.1)	Traffic Control and Management		Inciden	tal to Contract	
2.00	01 57 015	ENVIRONMENTAL PROTECTION				
2.01	(1.6.1)	ESC Supply & Installation, Maintenance and Removal		Inciden	tal to Contract	
3.00	31 11 015	CLEARING AND GRUBBING				
3.01	(1.4.1)	Clearing and Grubbing		Inciden	tal to Contract	
4.00	01 58 015	PROJECT IDENTIFICATION				
4.01	(1.3.1)	1.2m x 1.2m Static Construction Zone Information Sign	each	4		
5.00	03 30 205	CONCRETE WALKS, CURBS AND GUTTERS				
5.01	(1.4.3)	Concrete Barrier Curb and Gutter (MMCD C5) (incl. gravels)	lin.m	51		
5.02	(1.4.5)	Concrete Sidewalk, Multi-use Pathway, and Wheelchair Letdowns - 100mm thick - Broom Finished (incl. gravels); and as shown and described in the Contract Documents	sq.m	189		
5.03	(1.4.10)	Tactile Strip - Access Tile, Truncated Dome Pattern, Yellow color - Cast-in-place (removable)	lin.m	18		
6.00	31 24 135	ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION				
6.01	(1.8.4)	Remove and Dispose of Existing Concrete or asphalt flatwork (incl. offsite disposal)	sq.m	110		
6.02	(1.8.4)	Remove and Dispose of Existing Concrete Curb & Gutter (incl. offsite disposal)	lin.m	51		
6.03	(1.8.5)	Common Excavation including Offsite Disposal (Provisional)	cu.m	35		
6.04	(1.8.10)	Over Excavation (including offsite Disposal) - (Provisional)	cu.m	20		
7.00	32 01 16.75	COLD MILLING				
7.01	(1.5.4)	Inlay Milling (Up to 50mm)	sq.m	656		
8.00	32 12 13.15	ASPHALT TACK COAT				
8.01	1.5.1	Asphalt Tack Coat	sq.m	656		
9.00	32 12 165	HOT-MIX ASPHALT CONCRETE PAVING				
9.01	(1.5.1)	Upper Course #1 Asphalt Concrete (50mm thick)	tonne	81		
10.00	32 17 235	PAINTED PAVEMENT MARKINGS				
10.01	(1.5.3)	Permanent Thermoplastic Pavement Markings (extruded)	L.S	1		
10.02	(1.5.4)	Relocate/modify existing sign post as shown on drawing	each	2		
10.03	(1.5.4.1)	Supply & Install Sign Structure - 37kg Trapezoidal Sign Base, Pole & Cap as per Coquitlam Drawings #SS-E11.1 & SS-E11.2 (New Traffic Signal Signs)	each	4		
11.00	33 40 015	STORM SEWERS				
11.01	(1.6.5)	Catchbasin Leads c/w tie-in - 150mm SDR28 PVC (incl. Backfill & Permanent Trench Restoration - COQ-G4) (Sanded Stub)	lin.m	3		
12.00	33 44 015	MANHOLES AND CATCHBASINS				
12.01	(1.5.2)	Side Inlet Catchbasin (COQ-S11A)	ea.	1		
12.02	1.5.4	Remove Existing Catchbasin and Dispose Offsite	ea.	1		
13.00	34 41 135	TRAFFIC SIGNALS				
13.01	1.9	Traffic Signals (COMPLETE) - incl. intersection lighting	L.S	1		

Total	Tende	rad Dri	וכם (בי	rcluda	GST).

(Transfer the amount to Form of Tender Summary Page 1)

Name of Contractor:	
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PROVIDE:

NEW

120V SERVICE LOAD

(EXIST. 100A - 120/240V SERVICE PANEL ON NORTHEAST QUADRANT OF COAST MEDIAN ROAD AND HIGHLAND DRIVE INTERSECTION CCTS. 2 & 4)

REMOVED

0

1.23% VOLTAGE DROF

-53mm RPVC 1-19C SIGNAL CABLE No. 1A 1 No. 8 RW90 BOND (FROM JB TO POLE)

1.53A

1.53A

0.23A

0.00A

1.88A

0.83A

0.83A

0.98A

0.98A

2.25A

-53mm RPVC (EMPTY) (FROM JB TO POLE)

#### TRAFFIC SIGNAL NOTES

- ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE (IN ORDER OF PRECEDENCE) WITH THE SUPPLEMENTAL SPECIFICATIONS, MASTER MUNICIPAL CONSTRUCTION DOCUMENT, 2009 ISSUE AND THE CURRENT MOTH STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION UNLESS OTHERWISE NOTED ON DESIGN DRAWNOS.
- 2. CONDUCTORS INSIDE POLES SHALL BE:
  No. 14 RW90 X-LINK FOR SIGNALS
  No. 12 RW90 X-LINK FOR ALL OTHERS
- 3. A TRON HEB AA WEATHERPROOF FUSE HOLDER, C/W A 10A BUSS KTK FUSE AND 2 'L' TYPE INSULATING BOOTS, SHALL BE INSTALLED IN EACH LUMINAIRE & SIGN LIVE CONDUCTOR, IN THE HANDHOLE.
- EXACT POSITION OF ALL EQUIPMENT WILL BE LAYED OUT BY THE CITY REPRESENTATIVE.
   ALL SINGLE CONDUCTORS SHALL BE STRANDED COPPER, TYPE RW90 INSULATED AND COLOR CODED
- EMPTY CONDUITS SHALL HAVE A No.8 HB POLY YELLOW/GRN MK PULL STRING AND CAPPED AT BOTH ENDS AS PER COQUITLAM SUPPLEMENTARY DRAWING SS-E2.5
- 7. WHERE INDIVIDUAL CONDUCTORS OR CABLES ARE RUN, ALL OF THE COMMON CIRCUITS SHALL BE BUNDLED, TY-RAPPED TOGETHER WITH IDENTIFICATION TAGS IN ALL JUNCTION BOXES, VAULTS, HAND HOLES, CONTROLLER AND ACCESS POINTS AS NOTED IN THE MMCD. TAGS SHALL BE MARKED AS FOLLOWS CABLE N/W POLE, STREET LIGHTING CCTS R OR B, PHOTOCOLL, CONTROLLER POWER, WITH BLACK INDELIBLE MARKING PEN. TAGS TO BE ATTACHED NO FURTHER THAN 75mm FROM WIRE OR CABLE TERMINATION POINT.
- 8. TRAFFIC SIGNAL NEUTRALS SHALL BE KEPT SEPARATE FROM STREET LIGHTING NEUTRAL CONDUCTORS
- 9. ALL SIGNAL HEADS AND LUMINAIRES SHALL BE BONDED WITH A SEPARATE No.12 RW90 CONDUCTOR (GREEN) AT THE HANDHOLE, AS REQUIRED.
- 10. EQUIPMENT MODELS SPECIFIED SHALL BE CONFIRMED WITH THE CITY IMMEDIATELY PRIOR TO THEIR PURCHASE TO ENSURE THAT THEY ARE CORRECT AND CURRENT. CUTSHEETS, EQUIPMENT, MAKE, MODEL & SERIAL LIST TO BE PROVIDED FOR EACH SIGNAL LOCATION.
- 12. CONTRACTOR IS REQUIRED TO PROVIDE 72 HOURS NOTICE PRIOR TO ANY CONSTRUCTION
- 14. ALL POLES, ARMS, ETC. TO BE GALVANIZED, PRIMED AND POWDER-COATED IN COLOUR. EQUIVALENT TO COQUITIAM LAMP STANDARD GREEN RAL 6028, UNLESS OTHERWISE NOTED OR APPROVED. ANCHOR BOLT NUT COVERS SHALL MATCH POLE COLOUR (TYPICAL).
- 15. INSTALL BELL END FITTING ON ALL CONDUITS ENTERING JUNCTION BOXES.
  16. INSTALL HANGER BAR & TY-RAP WIRES TO BAR IN JUNCTION BOXES AS PER MMCD DRAWING COQUITLAM SUPPLEMENTARY DRAWING SS-E2.5
- 17. ALL CONDUITS SHALL BE BURIED MINIMUM 600mm DEEP. A 'BURIED CABLE' MAKER TAPE SHALL BE INSTALLED 300mm ABOVE CONDUIT IN ALL TRENCHES. DETECTABLE (METALIC) TAPE TO BE USED ABOVE CONDUIT IN TRENCHES CONTAINING ONLY INTERCONNECT CONDUIT.
- 18. BOND ALL STEEL JUNCTION BOX LIDS.
- 19. CONTRACTOR SHALL REPLACE ALL ASPHALT, CONCRETE SIDEWALKS, LANDSCAPE AND WHEELCHAIR RAMPS REMOVED FOR THE INSTALLATION OF THE SIGNAL AND COMM EQUIPMENT, AND RESTORE TO THE SAME OR BETTER CONDITION.
- 20. BACKBOARDS WITH PLUMBIZER GAPS OR KNOCKOUT SECTIONS WILL NOT BE ACCEPTED FOR ANY HEAD MOUNTED WITH OTHER THAN PLUMBIZER STYLE HARDWARE.
- 21. ALL ELECTRICAL PRODUCTS SHALL BEAR CSA/ETC APPROVALS OR BC ELECTRICAL INSPECTION PRIOR TO INSTALLATION.
  22. SIGNAL WIRING SHALL BE TAGGED AND LABELED USING PANDUIT MP250-C TAGS AND THE APPROPRIATE PANDUIT INDELIBLE MARKER.
- 24. CONCRETE VAULTS AND JUNCTION BOXES LOCATED IN NON-PAVED OR NON-SIDEWALK AREAS ARE TO BE PROTECTED FROM MOWER OR EROSION/VECETATION DAMAGE WITH A 200mm WIDE x 150mm DEEP CONCRETE COLLAR FLUSH WITH TOP EDGES OF THE TOP OF THE BOX LID. COLLAR TO SLOPE DOWN AWAY FROM BOX OPENING AT 3% TO DIRECT WATER AWAY FROM BOX OPENING. REFER TO COQUITLAM SUPPLEMENTAL SPECIFICATION FOR DETAILS.
- 25. JUNCTION BOXES IN SIDEWALK AREAS SHALL BE SUPPORTED BY CONCRETE MATERIALS ON ALL SIDES WITH A 200mm WIDE x 150mm DEEP CONCRETE COLLAR FLUSH WITH TOP OF SIDEWALK AND THE TOP OF THE BOX LID.
- 26. JUNCTION BOXES FOR ELECTRICAL APPLICATIONS (TRAFFIC SIGNALS, STREET LIGHTING, ETC.) THE LIDS SHOULD BE ETCHED ELEC, JUNCTION BOXES FOR COMMUNICATIONS THE LIDS SHOULD BE ETCHED COMM, ALL UPPERCASE LETTERS.
- 27. POLYMER CONCRETE 24 x 36 x 36 PULL BOXES SHALL BE INSTALLED AS SHOWN ON STANDARD DETAIL MMCD DRAWING E2.3 C/W 2 PIECE BOLT DOWN LIDS. REPLACE 150mm FINE DRAIN ROCK WITH 300mm FINE DRAIN ROCK.
- 28. BOTTOM OF JUNCTION BOXES SHALL BE OPEN. BOTTOM SECTIONS SHALL BE SUPPORTED WITH CONCRETE BRICKS AND USE CRUSHED GRAVEL TO DRAIN WATER.
- 10 DRAIN WATER.

  29. ALL BOLT DOWN JUNCTION BOX LIDS SHALL BE TIER 15 (20K) RATED.

  30. ENTRAC ANTENNA WILL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR, CONTRACTOR WILL INSTALL BRACKET WITH NEOPRENE GASKET MATERIAL TO FORM A SEAL BETWEEN BRACKET AND DOLE. NEOPRENE SHALL BE FULLY ENCLOSED WITHIN OUTER EDGES OF THE BRACKET SUCH THAT NONE IS VISIBLE AFTER THE BRACKET IS MOUNTED. ENTRAC ANTENNA CABLE (TIMES COMMUNICATION CABLE LUR-240DB) WILL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. ENTRAC CABLE WILL RUN CONTINUOUS WITH NO SPLICES FROM CONTROLLER TO THE ENTRAC ANTENNA. TERMINATION OF CABLE TO BE DONE BY COBRA ELECTRIC.
- 31. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM THE ADEQUACY OF THE EXISTING STREET LIGHTING, SERVICE, CONDUIT AND CONDUCTORS AND MAKE ALL NECESSARY REPAIRS TO ADEQUATELY COMPLETE ALL CONNECTIONS INTO THE EXISTING STREET LIGHTING SYSTEM.
- $32. \ \ CONTRACTOR \ \ SHALL \ \ SAND \ \ OFF \ \ PAINT \ \ AT \ \ GROUNDING/BONDING \ \ POINTS \ \ WITHIN \ \ POLE \ \ HAND \ \ HOLE \ \ ALLOWING FOR \ \ METAL-TO-METAL \ \ CONTACT.$
- 33. ALL CONDUITS SHALL BE RIGID P.V.C. MANUFACTURED IN ACCORDANCE WITH C.S.A. C22.2 No. 211.2. (NOT DB2).
- 34. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND LICENSES PRIOR TO CONSTRUCTION AND BE SUBJECT TO APPROVAL OF THE MUNICIPAL ELECTRICAL INSPECTOR.

EXISTING STREET LIGHTING SHALL REMAIN IN OPERATION THROUGHOUT CONSTRUCTION.

#### **EXCAVATION NEAR OVERHEAD UTILITY POLE**

ANY UNDERGROUND EXCAVATION WITHIN SOIL FOUNDATION INTERACTION AREA REQUIRES TEMPORARY UTILITY POLE UPPORT. REFER TO ES55 E3-04 GUIDE FOR CIVIL EXCAVATION NEAR DISTRIBUTION POLES FOR DETAILS. REFER TO BC HYDRO WORK ON WOOD POLES MANUAL (ON SAFEHUB) AND BC HYDRO 2017-1-F POLE HOLDING REQUIREMENTS FOR APPROVED TEMPORARY POLE SUPPORT METHODS. FOR MORE INFORMATION CONTACT workmethods@bchydro.com

#### LOCATING EQUIPMENT

FOR CLARITY CONDUITS, JUNCTION BOXES AND STREETLIGHT POLES MAY NOT BE SHOWN AT DESIGN OFFSETS. CONTRACTOR SHALL LOCATE ALL EQUIPMENT BASED ON STATIONS AND/OR OFFSETS AS NOTED AND SHALL NOT RELY ON COORDINATES OBTAINED FROM DMD DIGITAL DRAWINGS. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING

#### CHECK BEFORE YOU DIG

CONTRACTOR SHALL REFER TO MUNICIPAL RECORD / CIVIL DESIGN DRAWINGS FOR ALL OTHER UTILITIES, SERVICE LOCATIONS, AND DETAILS. THE EXACT LOCATION OF THESE UTILITIES SHALL BE DETERMINED ON SITE BY THE CONTRACTOR.
CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES
TO DMD & ASSOCIATES PRIOR TO ORDERING BASES.

#### OVERHEAD POWER LINE CONFLICT

CONTRACTOR SHALL CONFIRM ON SITE PRIOR TO CONSTRUCTION REQUIREMENTS FOR OVERHEAD PRIMARY AND SECONDARY LINES CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING POLES AND INSTALLING CONCRETE BASES.

MERIDIAN RD. AND HIGHLAND DR. REFER TO CITY DWG. No. C2046 FOR EXISTING COMMUNICATIONS ALONG COAST MERIDIAN RD.

REFER TO CITY DWG. No. E1040, E1117, E1230 & E1234 FOR EXISTING ST. LTG. & TRAFFIC SIGNAL PRE-DUCTING ALONG COAST

THERE SHALL BE NO SPLICING OF CONDUCTORS & CABLES IN JUNCTION BOXES WITH THE EXCEPTION OF ST. LTG.

THE CONTRACTOR SHALL COORDINATE ALL TERMINATION IN THE TRAFFIC CONTROLLER WITH THE CITY

REFER TO THE CITY OF COQUITLAM TRAFFIC SIGNAL APPROVED PRODUCTS LIST FOR ALL EQUIPMENT DETAILS

THE CITY OF COQUITLAM SHALL BE RESPONSIBLE FOR PROGRAMMING THE TRAFFIC SIGNAL.
CONTRACTOR SHALL PROVIDE THE CITY 3 WEEKS NOTICE IN ADVANCE OF WORK BEING REQUIRED.
ALL COST RELATED TO THIS WORK WILL BE BORNE BY THE CITY.

CONTRACTOR SHALL OBTAIN A COPY OF THE CITY OF COQUITLAM TRAFFIC SIGNAL AND ROADWAY SUPPLEMENTAL SPECIFICATIONS PRIOR TO CONSTRUCTION.

DO NOT USE THIS DRAWING FOR PAVEMENT MARKINGS.

ALL JUNCTION BOX LOCATIONS AND CONDUIT ROUTING ARE DIAGRAMMATIC AND ARE NOT TO SCALE. CONTRACTOR TO AVOID UNDERGROUND CONFLICTS
AND NOT INSTALL ANYTHING ON PRIVATE PROPERTY.



COQ. ASBUILT No EXXXX

LAND USE CLASSIFICATION RESIDENTIAL RESIDENTIAL ROADWAY CLASSIFICATION & WIDTH ARTERIAL-14.0m COLLECTOR-11.0n PEDESTRIAN ACTIVITY LEVEL MEDIUM ILLUMINANCE RECOMMENDED/DELIVER 22.0 LUX 22.7 LUX UNIFORMITY RECOMMENDED/DELIVERED 3.0:1 2.2:1 LIGHT LOSS FACTOR EQUIPMENT FIXTURE TYPE: LED WATTAGE: 28W NXT-24S-350mA-2ES-3000K.ies MODEL: NXT-24S-350mA-2ES-3000K FIXTURE TYPE: LED WATTAGE: 28W NXT-24S-350mA-2ES-4000K.ies IES FILE: MODEL: NXT-24S-350mA-2ES-4000K FIXTURE TYPE: LED WATTAGE: 100W IES FILE: NXT-72M-450mA-4AH-4000K.ies MODEL: NXT-72M-450mA-4AH-4000K

INTERSECTION DESIGN CRITERIA

INTERSECTION (NAME)

PER: (CITY BYLAW 3558)

COAST MERIDIAN ROAD

MTG. HEIGHT: 11.0m DIST TYPE: 4AH

ES FILE: NXT-72M-700mA-4AH-4000K.ies MODEL: NXT-72M-700mA-4AH-4000K

BASE ON A 20-YEAR FIXTURE LIFE, 10-YEAR CLEANING CYCLE AND LENS OPTIC DEPRECIATION OF 4%

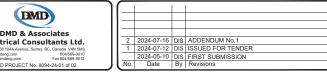
PAIHWAY LIGHT CONTRIBUTION NOT INCLUDED IN CALCULATIONS.

Contractor to contact Telus, BC Hydro, FortisBC and BC one call prior to construction to confirm locations of utilities and appurtenances requiring adjustment.

DMD	
DMD & Associates	
trical Consultants Ltd.	
58 104A Avenue Surrey RC Canada V4N 5M3	

HIGHLAND DRIVE

1-VIDEO DET. CABLE (SH. CAT5E) 1 No. 8 RW90 BOND



SITE PLAN

92W (LED) ST. NAME SIGN

28W (LED)

45W (LED)

135W (LED)



HIGHLAND DRIVE



NOT FOR CONSTRUCTION

COORDINATE IF LOCATION CHANGES ARE REQUIRED.

ALL EQUIPMENT IS **EXISTING** 

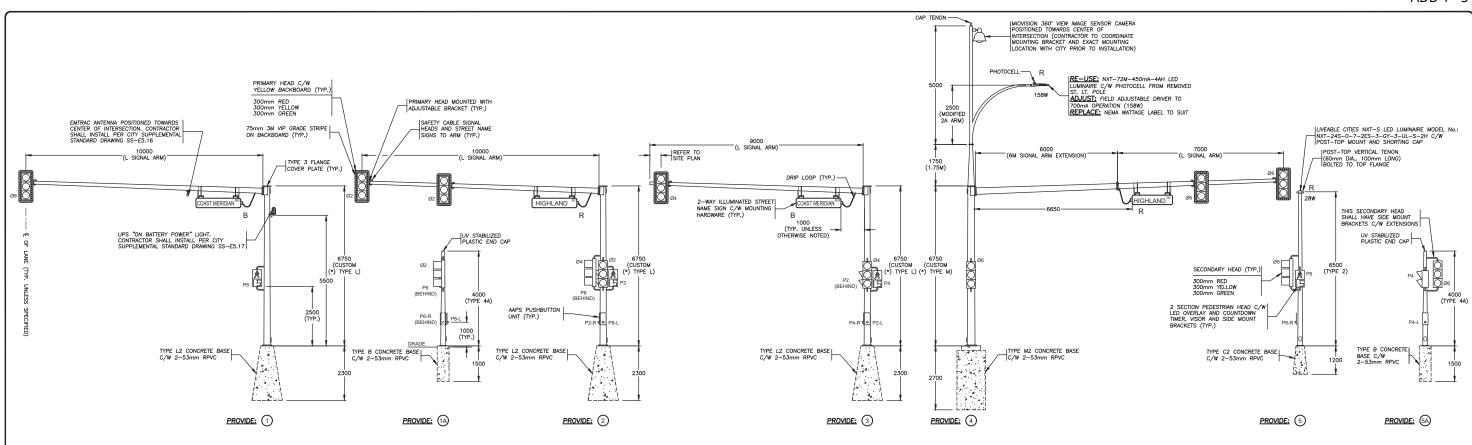
**EXCEPT WHERE NOTED** 

SIGNAL DISPLAY



16	Design by	Date	Scale
	DIS	2024-05-10	1:250
Zsr. cec	Drawn by	Date	Sheet of
	YJ	2024-05-10	03 OF 04
7 2	Checked by	Date	Eng. Project No.
	DIS	2024-05-10	79050
500	Approved by DJW	Date 2024-05-10	

**COAST MERIDIAN ROAD** AND HIGHLAND DRIVE Description TRAFFIC SIGNAL File: 8094-24 SITE PLAN, LEGEND AND NOTES



ALL SIGNAL DISPLAY SHALL HAVE TUNNEL VISORS

ALL SIGNAL AND PEDESTRIAN DISPLAYS SHALL BE LED

USE CONDUCTOR #7 FOR SECONDARY PB RETURN, TAPE WHITE IN HANDHOLE AND CONTROLLER CABINET

CONDUCTOR COLOUR CODE (FROM HANDHOLE TO SIGNAL) ITEM YELLOW YELLOW BROWN RED YELLOW (RED T.T.) BLUE RED BROWN (ORANGE T.T.) BLUE YELLOW BLUE PURPLE/PURPLE (YELLOW T.T.) P2 DON'T WALK WALK PUSH BUTTON BROWN BLUE PURPLE/PURPLE (BTOWN T.T.) YELLOW (RED T.T.) BLUE PURPLE/PURPLE (RED T.T.) DON'T WALK WALK PUSH BUTTON DON'T WALK WALK PUSH BUTTON BROWN (ORANGE T.T.) PURPLE/PURPLE (ORANGE T.T.) ITEM CIRCUITS CONDUCTOR COLOUR SIGNAL NEUTRA NEUTRAL CONTROLLER/UPS POWER POWER BLACK RED STREET LIGHTING BLACK RED PANEL SUPPLY BLACK PHOTOCELL SWITCH LEG RED NEUTRAL NEUTRAL WHITE GROUND/BOND GROUND/BOND

THE CONTRACTOR SHALL SUPPLY AND INSTALL THE FOLLOWING MATERIALS. REFER TO THE CITY OF COQUITLAM TRAFFIC SIGNAL APPROVED PRODUCT LIST AND CONTACT BERNARD TUNG 604-927-6257 AT THE CITY OF COQUITLAM TRAFFIC DEPARTMENT FOR SPECIFIC MATERIAL DETAILS PRIOR TO ORDERING:

- TRAFFIC CONTROLLER & CABINET C/W 3M GRAPHIC WRAP, COORDINATE DESIGN WITH THE CITY
- 2) BOLT-ON UPS SYSTEM & CABINET C/W 3M GRAPHIC WRAP, COORDINATE DESIGN WITH THE CITY OF COQUITLAM

FIBRE OPTIC SWITCH, REFER TO CITY OF COQUITLAM APPROVED PRODUCT LIST

- MIOVISION EQUIPMENT C/W MOUNTING BRACKET AND CABLE EMTRAC ANTENNA, MOUNTING BRACKET AND CABLING (TERMINATIONS TO BE COMPLETED BY COBRA ELECTRIC)
- POLARA NAVIGATOR IDS2 SYSTEM
- ILLUMINATED STREET NAME SIGNS C/W MOUNTING HARDWARE

CONTRACTOR SHALL HIRE COBRA ELECTRIC TO COMPLETE THE EMTRAC CABLE TERMINATION. ALL COSTS SHALL BE BORNE BY THE CITY

CONTRACTOR WILL DELIVER CONTROLLER & UPS CABINETS, ALL CONTROLLER EQUIPMENT, EMTRAC PRE-EMPTION SYSTEM, VIDEO DETECTION SYSTEM AND POLARA SYSTEM TO THE CITY OF COQUITLAM FOR TESTING AND PROGRAMMING. UPON COMPLETION THE CONTRACTOR WILL PICK UP AND INSTALL EQUIPMENT AT SITE.

ON SITE CONTROLLER START UP AND COMMISSIONING WILL BE DONE BY THE CITY OF COQUITLAM TRAFFIC OPS STAFF, AND THE CONTRACTOR. (CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL, QUALIFIED ELECTRICIAN(S) AND BUCKET TRUCK) ALL COSTS FOR THIS WORK SHALL BE BORNE BY THE CITY

NEW POLES DENOTED WITH (\*) ARE TO BE CUSTOM, POLE LOADING ANALYSIS MUST BE COMPLETED BY THE POLE MANUFACTURER TO ENSURE POLE(S) ARE CHECKED FOR FATIGUE AND FATIGUE LOADING IN COMPLIANCE WITH CAN/CSA-S6-19 AND AASHTO 2013 SECTION 11 STANDARDS. CONTRACTOR IS REQUIRED TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS FOR ALL NEW POLE(S).

ALL CONCRETE BASES SHALL HAVE ANCHOR BOLT PROJECTION CONFIRMED AGAINST CUSTOM SIGNAL POLES TO ENSURE THEY PROTRUDE FAR ENOUGH OUT OF THE CONCRETE BASE.

REFER TO THE CITY OF COQUITLAM TRAFFIC SIGNAL APPROVED PRODUCTS LIST FOR ALL EQUIPMENT DETAILS

THE CITY OF COQUITLAM SHALL BE RESPONSIBLE FOR PROGRAMMING THE TRAFFIC SIGNAL.
CONTRACTOR SHALL PROVIDE THE CITY 3 WEEKS NOTICE IN ADVANCE OF WORK BEING REQUIRED. ALL COST RELATED TO THIS WORK WILL BE BORNE BY THE CITY.

THE CONTRACTOR SHALL COORDINATE ALL TERMINATIONS IN THE TRAFFIC CONTROLLER WITH THE CITY

CONTRACTOR SHALL OBTAIN A COPY OF THE CITY OF COQUITLAM TRAFFIC SIGNAL AND ROADWAY SUPPLEMENTAL SPECIFICATIONS PRIOR TO CONSTRUCTION.

ACCEPTED FOR

CONSTRUCTION

NOT FOR CONSTRUCTION 2024-07-16

DMD DMD & Associates **Electrical Consultants Ltd.** Contractor to contact Telus, BC Hydro, FortisBC and BC one call prior to construction to confirm locations of utilities and purtenances requiring adjustment.

2024-05-10 DIS FIRST SUBMISSION
Date By Revisions

Coquitlam Engineering & Public Works 3000 Guildford Way, Coquitlam, B.C. V3B 7N2



Seal: 2024-07-16  OFESO OF STATE OF STA

Design by	Date	Scale
DIS	2024-05-10	1:75
Drawn by	Date	Sheet of
YJ	2024-05-10	04 OF 04
Checked by	Date	Eng. Project No.
DIS	2024-05-10	79050
Approved by D.IW	Date 2024-05-10	

**COAST MERIDIAN ROAD** AND HIGHLAND DRIVE Description TRAFFIC SIGNAL File: 8094-24 ELEVATIONS

NOTE: T.T. DENOTES TAPE TRACER.