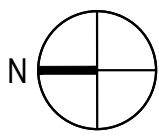


EDITHVALE RECREATION RESERVE

BASEBALL LIGHTING



Drawing Schedule

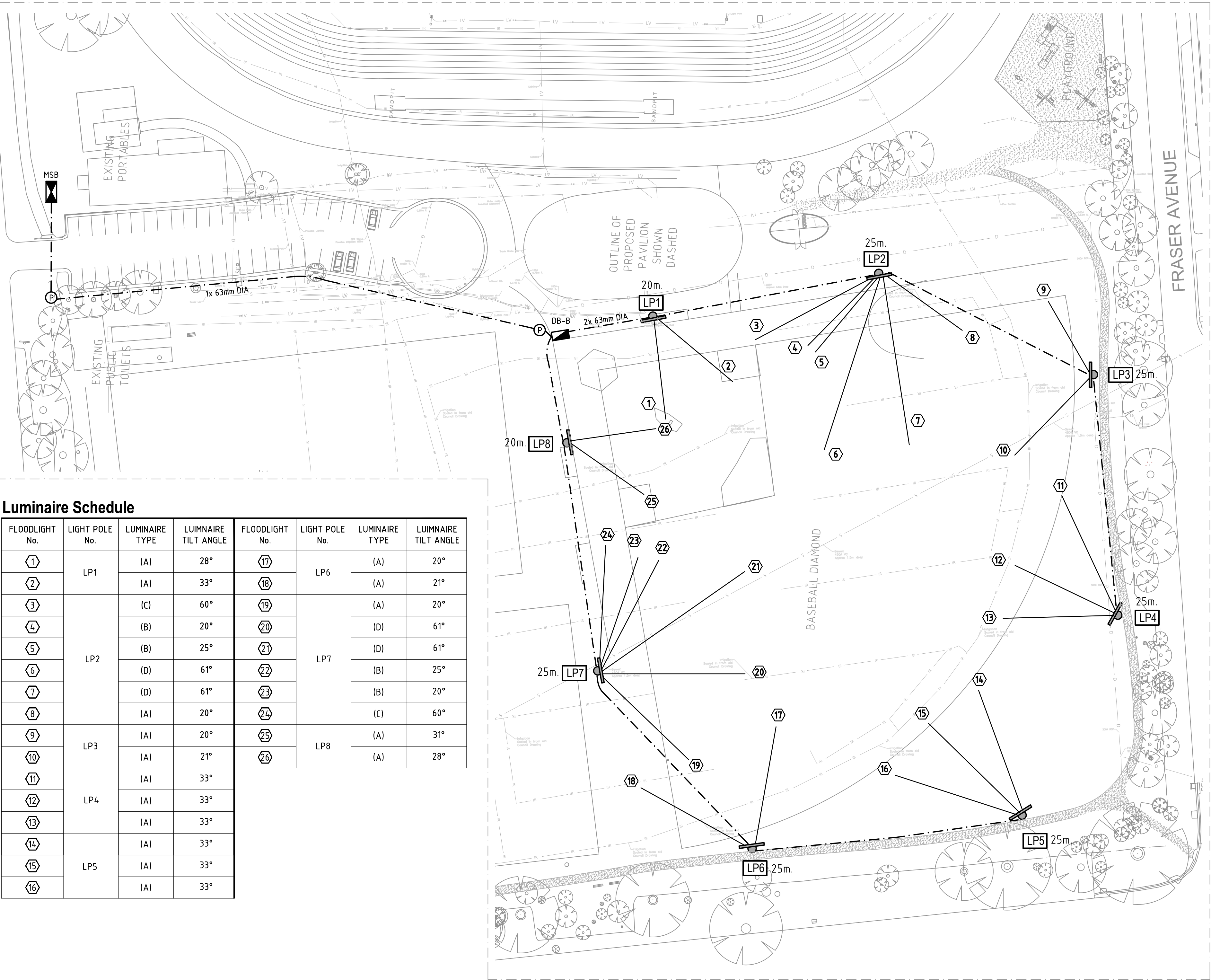
N385A-E-910	DRAWING SCHEDULE, LEGEND, NOTES AND LIGHTING LAYOUT
N385A-E-911	SINGLE LINE DIAGRAM AND DETAILS
N385A-L-910	ILLUMINANCE CALCULATIONS

Legend of Symbols

	LUMINAIRE TILT ANGLE
	LUMINAIRE AND DISTRIBUTION TYPE NEW TAPERED OCTAGONAL LIGHT POLE WITH CROSSARM TO SUPPORT LUMINAIRES AS SHOWN (PLUS 100% SPARE CAPACITY) TYPE: GALVANISED STEEL
	LIGHT POLE I.D. NUMBER 20m. - POLE HEIGHT IN METERS
	NEW 14kW (213,800 LUMEN) LED (IP65) FLOODLIGHT WITH NARROW BEAM (ASYMMETRIC) DISTRIBUTION C/W "BL" TYPE LOUVRE LUMINAIRE DETAILS : 'PHILIPS' - 'OPTIVISION' - GEN 3.5 CODE : BVP528 A35-NB+BL
	SAME AS ABOVE BUT COMPLETE WITH "LT" TYPE LOUVRE LUMINAIRE DETAILS : 'PHILIPS' - 'OPTIVISION' - GEN 3.5 CODE : BVP528 A35-NB+LT
	NEW 945W (142,600 LUMEN) LED (IP65) FLOODLIGHT WITH SYMMETRIC NARROW BEAM 'S3' DISTRIBUTION LUMINAIRE DETAILS : 'PHILIPS' - 'OPTIVISION' - GEN 3.5 CODE : S3/5 + ZVP418L
	NEW 945W (142,600 LUMEN) LED (IP65) FLOODLIGHT WITH SYMMETRIC NARROW BEAM 'S4' DISTRIBUTION LUMINAIRE DETAILS : 'PHILIPS' - 'OPTIVISION' - GEN 3.5 CODE : S4/5 + ZVP418L
	LUMINAIRE IDENTIFICATION NUMBER
	NEW HD UPVC UNDERGROUND CONDUIT - QUANTITIES AND SIZE AS INDICATED ON LAYOUT PLAN) (1x 63mm Ø UNLESS OTHERWISE NOMINATED)
	NEW ELECTRICAL PIT
	EXISTING SWITCHBOARD & METERING CUBICLE
	NEW BASEBALL LIGHTING ELECTRICAL CUBICLE C/W LIGHTING CONTROLS

Scope of Works :

- MAKE APPLICATION FOR NEW ELECTRICITY SERVICE CONNECTION (NEW METER)
- NEW LIGHT POLES & CROSS-ARMS, POLE FOOTINGS, LUMINAIRES AND ASSOCIATED ITEMS
- NEW UNDERGROUND CONDUIT AND CABLING
- NEW BASEBALL ELECTRICAL CUBICLE COMPLETE WITH LIGHTING CONTROL
- AIMING OF NEW LUMINAIRES, INCLUDING INITIAL AIMING TO BE CARRIED OUT DURING DAY LIGHT HOURS AND FINAL AIMING TO BE CARRIED OUT AT NIGHT.
- TESTING AND COMMISSIONING OF LIGHTING SYSTEM UPON COMPLETION OF WORKS, INCLUDING FINAL AIMING TO ACHIEVE REQUIRED ILLUMINANCE LEVELS AND UNIFORMITY.
- AS-BUILT DRAWINGS, OPERATION AND MAINTENANCE MANUALS.
- OTHER WORKS AS REQUIRED.



Luminaire Schedule

FLOODLIGHT No.	LIGHT POLE No.	LUMINAIRE TYPE	LUMINAIRE TILT ANGLE	FLOODLIGHT No.	LIGHT POLE No.	LUMINAIRE TYPE	LUMINAIRE TILT ANGLE
1	LP1	(A)	28°	17	LP6	(A)	20°
2		(A)	33°	18		(A)	21°
3	LP2	(C)	60°	19	LP7	(A)	20°
4		(B)	20°	20		(D)	61°
5		(B)	25°	21		(D)	61°
6		(D)	61°	22		(B)	25°
7	LP3	(D)	61°	23	LP8	(B)	20°
8		(A)	20°	24		(C)	60°
9	LP4	(A)	20°	25	LP5	(A)	31°
10		(A)	21°	26		(A)	28°
11	LP5	(A)	33°				
12		(A)	33°				
13	LP6	(A)	33°				
14		(A)	33°				
15	LP7	(A)	33°				
16		(A)	33°				

Notes:

- CONDUIT ROUTES SHOWN ARE INDICATIVE ONLY. EXACT CONDUIT ROUTES TO BE DETERMINED DURING CONSTRUCTION TO SUIT SITE CONDITIONS. OBTAIN APPROVAL FOR CONDUIT ROUTES FROM COUNCIL PRIOR TO INSTALLATION.
- NEW CONDUIT CAN BE INSTALLED BY DIRECTIONAL BORE OR TRENCHING (TENDERERS TO NOMINATE PREFERRED OPTION). TRENCHING COSTS MUST INCLUDE RE-INSTALLMENT TO ORIGINAL CONDITION (TO COUNCIL APPROVAL).
- CONFIRM FINAL LIGHT POLE POSITIONS WITH PROJECT MANAGER BEFORE BEGINNING WORKS.
- STRUCTURAL COMPUTATIONS AND CERTIFICATIONS OF POLES AND FOOTINGS MUST BE SUPPLIED BEFORE BEGINNING WORKS.
- MAKE APPLICATION TO COUNCIL'S ELECTRICITY RETAILER FOR NEW CONNECTION/METER. NEW ELECTRICITY METER TO BE MOUNTED ONTO EXISTING METER PANEL WITHIN MSB CUBICLE. PROVIDE ALL NECESSARY FORMS, INCLUDING BUT NOT LIMITED TO C.E.S. AND E.W.R.
- EXACT LOCATION OF DB-B TO BE CONFIRMED ON SITE DURING CONSTRUCTION, TO THE APPROVAL OF THE PROJECT MANAGER.
- PROVIDE SURGE PROTECTION WITHIN EACH POLE BASE (EQUAL TO OAK ELECTRONICS DS254VG-400)
- LIGHT MASTS TO BE POWDER COATED 'CHARCOAL'.
- EXPOSED ELECTRICAL CABLE (e.g. BETWEEN LUMINAIRES AND POLE) TO BE ENCLOSED IN METALLIC FLEXIBLE CONDUIT (EQUAL TO "ADAPTASTEEL TYPE S").
- CONFIRM EXACT LOCATION OF "DB-B" WITH PROJECT MANAGER BEFORE BEGINNING WORKS.
- PROVIDE 12 MONTH DEFECTS LIABILITY/WARRANTY PERIOD FOR THE NEW INSTALLATION.
- UPON COMPLETION OF WORKS, PROVIDE A CERTIFICATE OF ELECTRICAL SAFETY, TO BE INCLUDED IN THE O & M MANUALS.
- INCIDENTAL WORK : THE WORK SHALL INCLUDE ALL NECESSARY MINOR AND INCIDENTAL WORK REQUIRED TO PROVIDE A COMPLETE AND FULLY FUNCTIONING ELECTRICAL SERVICES INSTALLATION WHICH IMPLEMENTS THE INTENT AND REQUIREMENTS OF THE DESIGN DRAWINGS.
- SUPPLY ALL LABOUR, MATERIAL AND EQUIPMENT, WHETHER MENTIONED IN DETAIL OR NOT, REQUIRED TO LEAVE THE INSTALLATION IN FULL WORKING ORDER.

02	FOR APPROVAL	12.05.21	PM	RH
01	FOR APPROVAL	20.04.21	PM	RH

ISSUE REVISION DATE REVIEW APPROVED



CONSULTING ELECTRICAL ENGINEERS LIGHTING CONSULTANTS TECHNOLOGY CONSULTANTS

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PROJECT
EDITHVALE RECREATION RESERVE
BASEBALL LIGHTING

DRAWING
ELECTRICAL SERVICES
DRAWING SCHEDULE, LEGEND, NOTES
AND LIGHTING LAYOUT

DATE	SCALE	D	R	A
12.05.21	1:500 [A1]	JD	PM	RH

PROJECT	DWG NO	REVISION	NO IN SET
N385A	E-910	02	-

STATUS
PRELIMINARY

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