BONBEACH SPORTS RESERVE - OVAL 1

DRAWING SCHEDULE		
DWG No	DESCRIPTION	
M223B ES-01	OVAL 1 – LEGEND, NOTES AND LIGHTING LAYOUT	
M223B ES-02	OVAL 1 - SINGLE LINE DIAGRAM AND DETAILS	
M223B LC-01	OVAL 1 – ILLUMINANCE CALCULATION – 100 LUX	
M223C ES-01	OVAL 2 - LEGEND, NOTES AND LIGHTING LAYOUT	
M223C ES-02	OVAL 2 - SINGLE LINE DIAGRAM AND DETAILS	
M223C LC-01	OVAL 2 - ILLUMINANCE CALCULATION - 100 LUX	

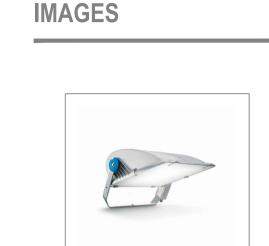
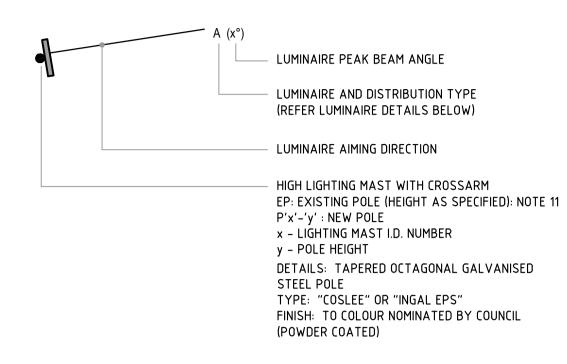
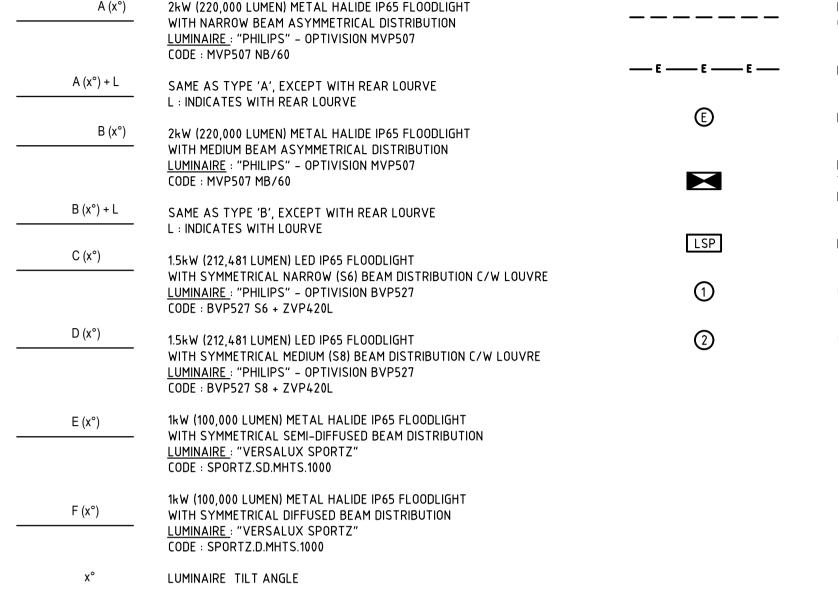


IMAGE 1 : OPTIVISION MVP507

LEGEND OF SYMBOLS





NEW BORED UNDERGROUND CONDUIT ROUTE (QUANTITIES AND SIZES AS SHOWN)

EXISTING UNDERGROUND CONDUIT

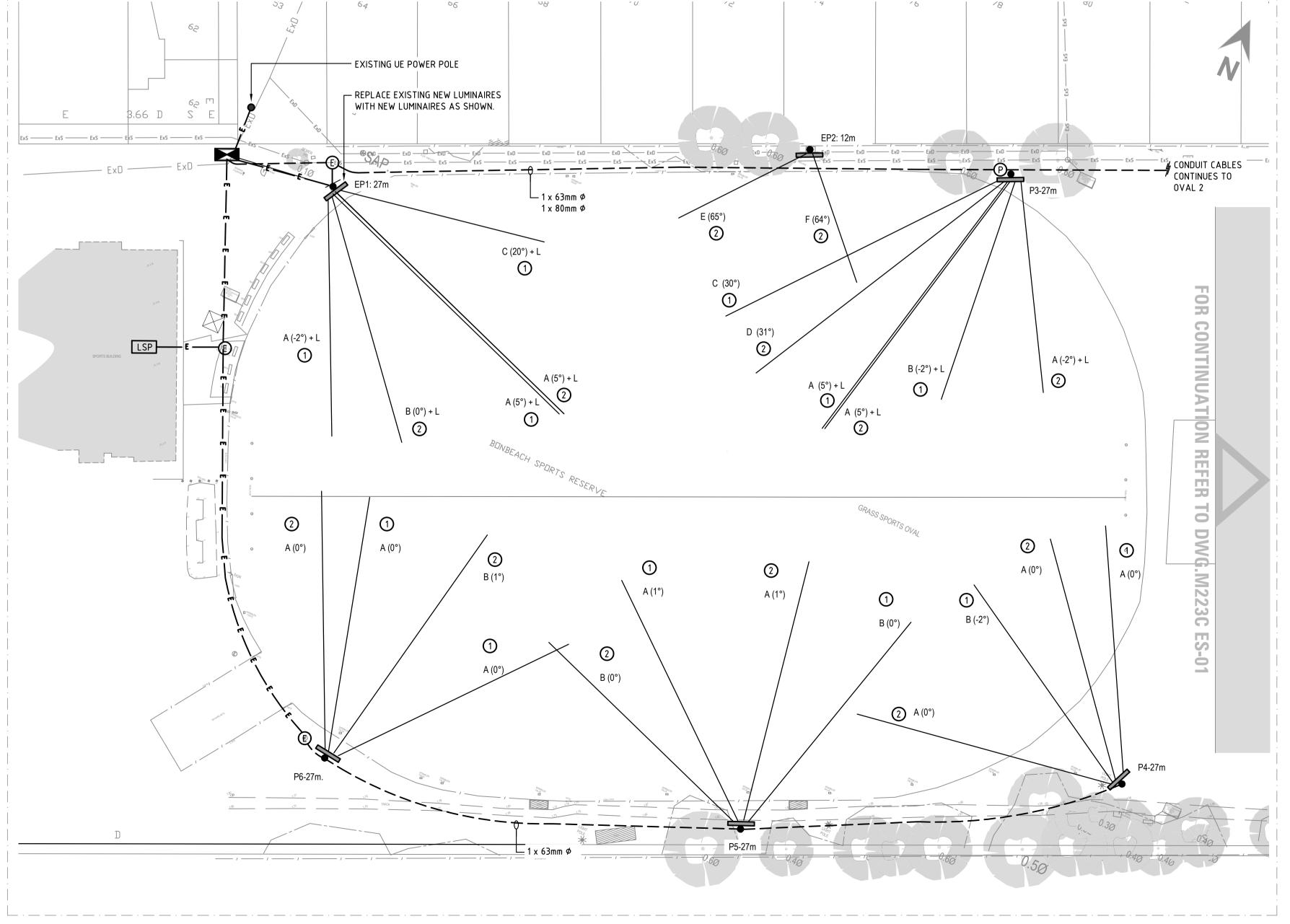
EXISTING ELECTRICAL PIT

EXISTING MAIN SWITCHBOARD AND METERING CUBICLE TO BE REPLACED. REFER SINGLE LINE DIAGRAM ON DWG.ES-02 FOR DETAILS.

EXISTING LIGHTING CONTROL SWITCH PANEL

CONTROLLED BY SWITCH 1

CONTROLLED BY SWITCH 2



NOTES

- 1. 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.
- 2. PROVIDE ENGRAVED ASSET ID PLATE AT EACH NEW POLE WITH THE
- FOLLOWING INFORMATION :

 MANUFACTURER
- REFERENCE/CATALOGUE NUMBER
 POLE NUMBER
- LUMINAIRE MAKE AND MODELPOLE HEIGHT
- MAXIMUM FLOODLIGHT CAPACITYTEXT SIZE : 120mm HIGH
- 4. NEW LIGHT POLES, CROSS-ARMS AND FOOTINGS TO HAVE CAPACITY FOR FUTURE ADDITION OF 4 x 2kW MH LUMINAIRES. ALLOW FOR FUTURE MH LUMINAIRES TO HAVE 50% ADDITIONAL WEIGHT AND SAIL AREA THAN SPECIFIED MH LUMINAIRES.
- 5. NEW CONDUIT CAN BE INSTALLED BY DIRECTIONAL BORE OR TRENCHING (TENDERERS TO NOMINATE PREFERRED OPTION).

- 6. ALL EXPOSED EXTERNAL CABLES (eg. FROM POLES TO LUMINAIRES) TO BE ENCLOSED IN STEEL SHEATHED FLEXIBLE CONDUIT, EQUAL TO ADAPTASTEEL SP.
- 7. PROVIDE SURGE PROTECTION WITHIN EACH LIGHT POLE BASE DB (EQUIVALENT TO NHP PSM-20kA).
- 8. 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.
- 9. SUPPLY ALL LABOUR, MATERIAL AND EQUIPMENT, WHETHER MENTIONED IN DETAIL OR NOT, REQUIRED TO LEAVE THE INSTALLATION IN FULL WORKING ORDER
- WORKING ORDER.

 10. ALL LUMINAIRE CONTROL GEAR WITHIN LIGHT POLES TO BE LOCATED
- 11. REPLACE EXISTING LUMINAIRES ON EXISTING POLES WITH NEW LUMINAIRES AS SHOWN.

NOMINATED FLOODPLAIN HEIGHT (1.5m AGL).

BEHIND UPPER ACCESS HATCH, TO CLEAR MELBOURNE WATER'S

С3	POLE P4 RELOCATED	18.11.20	P.M.	R.H.
C2	REVISED LIGHTING DESIGN	18.11.20	P.M.	R.H.
C1	FOR CONSTRUCTION	29.09.20	P.M.	R.H.
ISSUE	REVISION	DATE	REVIEW	APPROVED



SCOPE OF WORKS

THE SCOPE OF WORKS FOR THIS PROJECT INCLUDES :

- 1. PROVIDE SEPARATE PRICING OPTIONS (AS PER SPECIFICATION TENDER SCHEDULES) FOR THE FOLLOWING OPTIONS:
- 1.1. OVAL 1 LIGHTING UPGRADE ONLY (INCLUDING SUPPLY UPGRADE & NEW MAIN SWITCHBOARD)
- 1.2. OVAL 2 LIGHTING UPGRADE ONLY (INCLUDING SUPPLY UPGRADE & NEW MAIN SWITCHBOARD)

 1.3. OVAL 1.8.2 LIGHTING UPGRADES
- 1.3. OVAL 1 & 2 LIGHTING UPGRADES.
- LIAISE WITH UNITED ENERGY TO FACILITATE UPGRADE OF EXISTING ELECTRICITY SUPPLY TO NEW ELECTRICAL PILLAR (IN ACCORDANCE WITH SUPPLY AGREEMENT BETWEEN UE AND THE CITY OF KINGSTON COUNCIL).
- LIAISE WITH THE COUNCIL'S ELECTRICITY RETAILER TO ARRANGE CONNECTION OF NEW METERS, INCLUDING SUBMISSION OF ALL DOCUMENTATION (CES, EWR ETC.), TRUCK APPOINTMENTS AND ALL ASSOCIATED WORKS.
- ARRANGE FOR ABOLISHMENT OF EXISTING SERVICE AND REMOVAL OF EXISTING EXISTING SITE MSB.
- NEW SITE MSB & METERING CUBICLE (REFER SINGLE LINE DIAGRAM ON ES-02 FOR DETAILS).
- 6. NEW ELECTRICAL PILLAR FOR OVAL 2.

- 7. NEW UNDERGROUND CONDUIT AND CABLING FOR SPORTS LIGHTING.
- 8. CONNECT NEW OVAL 1 LIGHTING TO EXISTING LIGHTING CONTROLS WITHIN PAVILION (INCLUDING NEW CONTROL CABLING TO NEW LIGHTING POLES P2-P6).
- 9. NEW LIGHTING CONTROLS FOR OVAL 2, INCLUDING CABLING AND EQUIPMENT AS REQUIRED TO MAKE LIGHTING CONTROLS OPERATIONAL.
- 10. NEW CONDUIT AND CABLE ENTRIES TO NEW LIGHT POLES.
- 11. NEW LIGHT POLES, LUMINAIRES AND ASSOCIATED ITEMS.
- 12. FOOTINGS FOR NEW LIGHT POLES.
- 13. AIMING OF NEW LUMINAIRES, INCLUDING INITIAL AIMING TO BE CARRIED OUT DURING DAY LIGHT HOURS AND FINAL AIMING TO BE CARRIED OUT AT NIGHT.
- 14. TESTING AND COMMISSIONING OF LIGHTING SYSTEM UPON COMPLETION OF WORKS, INCLUDING FINAL AIMING TO ACHIEVE REQUIRED ILLUMINANCE LEVELS AND UNIFORMITY.
- 15. AS-BUILT DRAWINGS, OPERATION AND MAINTENANCE MANUALS.

		WEBB AUSTRALIA
CONCLUTING FLECTRICAL ENGINEERS	LICUTING CONICULTANTS	TECHNIOLOGY CONICHI TANTO

CONSULTING ELECTRICAL ENGINEERS LIGHTING CONSULTANTS TECHNOLOGY CONSULTANTS

WEBB AUSTRALIA GROUP (VIC) PTY LIMITED ACN 61 073 585 305 LEVEL 9, 128 EXHIBITION STREET MELBOURNE VIC 3000 AUSTRALIA TELEPHONE 03 9652 0333 FACSIMILE 03 9652 0300 EMAIL melbourne@webbaustralia.com.au

CITY OF KINGSTON



PROJECT
BONBEACH OVAL 1
SPORTING FLOODLIGHTING

DRAWING ELECTRICAL SERVICES

LEGEND, NOTES AND LIGHTING LAYOUT

 DATE
 SCALE
 D
 R
 A

 04.12.20
 1:500 [A1]
 JD
 PM
 WPH

 PROJECT
 DWG NO
 REVISION
 NO IN SET

STATUS

CONSTRUCTION

COPYRIGHT © WEBB AUSTRALIA GROUP (VIC) PTY LTD ABN 61 073 585 305, ALL RIGHTS RESERVED. THIS DRAWING MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS IN PART OR IN WHOLE WITHOUT THE WRITTEN PERMISSION OF WEBB AUSTRALIA GROUP FOR PTY LTD. WEBB AUSTRALIA GROUP DRAWINGS ARE SCHEMATIC AND SHALL BE READ IN CONJUNCTION WITH ALL CONTRACT DOCUMENTATION. SHOULD ANY AMBIGUITY, ERROR, OMISSION, DISCREPANCY, INCONSISTENCY OR OTHER FAULT APPEAR TO EXIST IN THE DOCUMENTS, IMMEDIATELY NOTHY THE CONTRACT ADMINISTRATOR IN WRITHING.

SITE PLAN - LIGHTING LAYOUT

SCALE 1:500