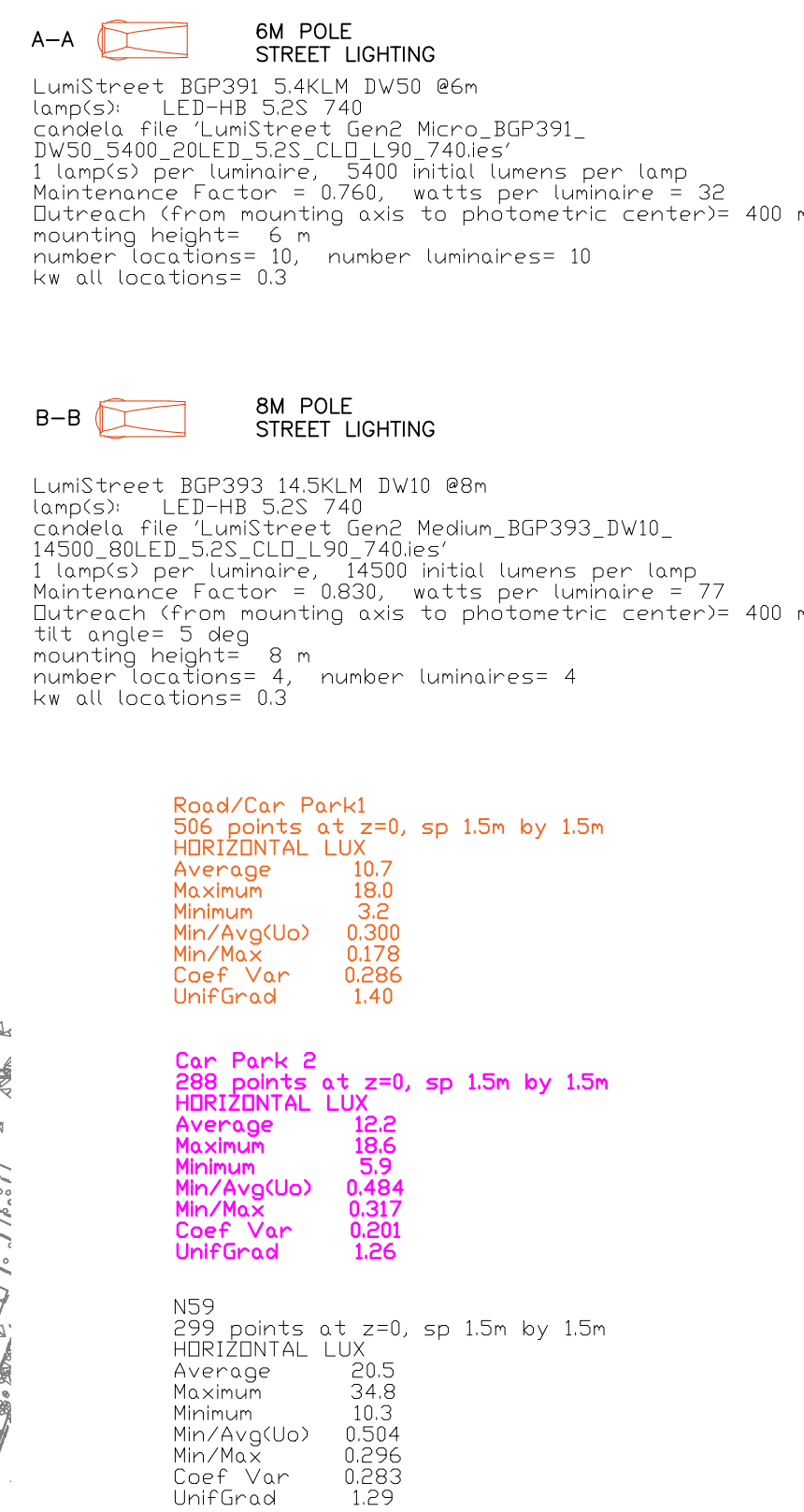
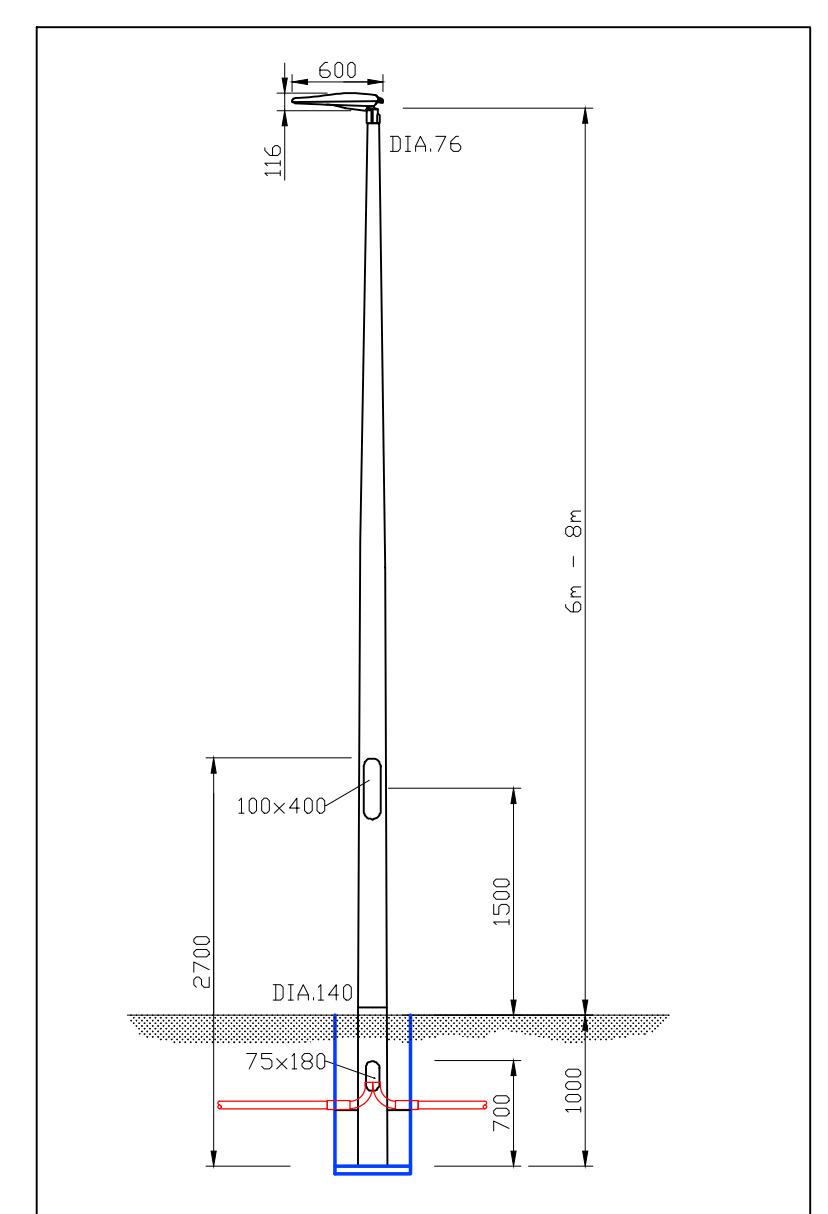


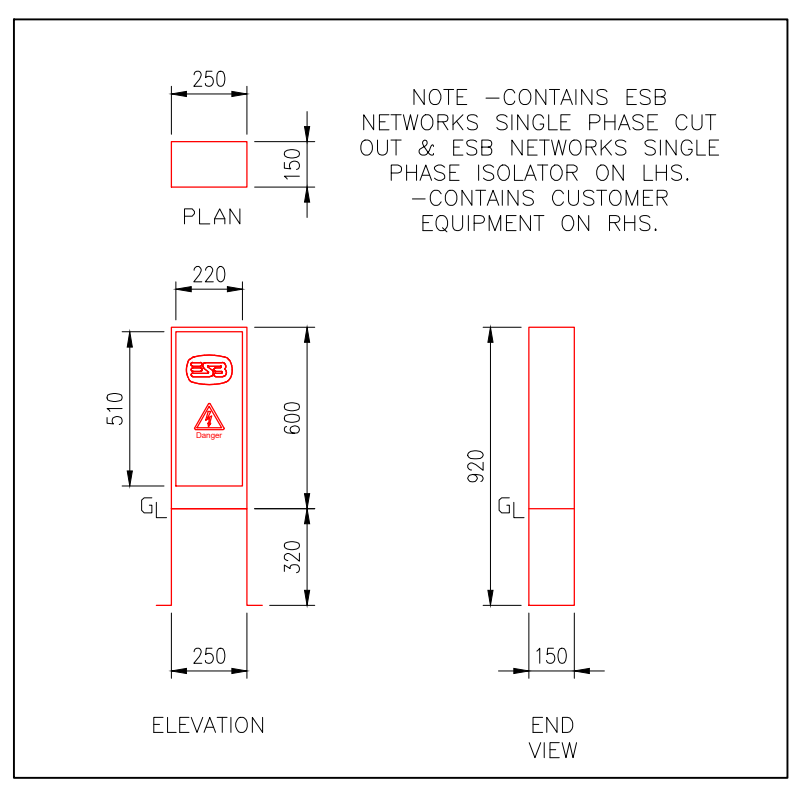


1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS & CONTRACT DOCUMENTS
2. THE CONTRACTOR SHALL ENSURE THAT THE INSTALLATION COMPLIES WITH LOCAL AUTHORITY CODES AND ALL OTHER RELEVANT STANDARDS.
2. THE INSTALLATION SHALL BE COMPLETED IN ACCORDANCE WITH ETO REGULATIONS, ESB NETWORKS NATIONAL CODE OF PRACTICE & LOCAL AUTHORITY REQUIREMENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF ALL UNDERGROUND SERVICES.
4. THE CONTRACTOR IS TO ALLOW FOR THE SUPPLY AND INSTALLATION OF ACCESS CHAMBERS ON DUCTING AS REQUIRED AT CHANGES IN DIRECTION & ON DUCT RUNS IN EXCESS OF 35m
5. WIDE RADIUS & GENTLY SWEETING BENDS TO BE USED ON DUCTING SET IN CONCRETE
6. ALL DUCTING TO BE LOCATED IN FOOTPATHS & SOFT LANDSCAPING
7. NOT MORE THAN SIX COLUMNS MAY BE SUPPLIED FROM ANY ONE COLUMN AND NOT MORE THAN FOUR CIRCUITS MAY BE TAKEN FROM ANY ONE PUBLIC LIGHTING MICRO PILLAR
8. A MINIMUM COVER OF 600mm TO THE DUCTING SHOULD BE PROVIDED IN GRASS MARGINS. A MINIMUM COVER OF 750mm TO THE DUCTING SHOULD BE PROVIDED AT ROAD CROSSINGS
9. CABLE JOINTS ARE NOT PERMITTED. CABLES SHOULD BE LOOPED FROM COLUMN TO COLUMN ON EACH CIRCUIT
10. STREET LIGHTING COLUMNS SHALL BE 6m & 8m OCTAGONAL GALVANISED COLUMNS SUPPLIED BY PILTOWN ENGINEERING. LAMPPOST CONSTRUCTION OR EQUAL & APPROVED. COLUMNS & COLUMN INSTALLATION TO COMPLY WITH DEPARTMENT OF THE ENVIRONMENT & LOCAL AUTHORITY REQUIREMENTS
11. LIGHTING COLUMNS TO BE POSITIONED TO COINCIDE WITH PROPERTY PARTY LINES TO AVOID OBSTRUCTING ENTRANCES.
12. PUBLIC LIGHTING CONNECTION SHALL BE BY UNDERGROUND CABLE FROM THE NEAREST ESB NETWORKS MINIPILLAR TO THE PUBLIC LIGHTING SYSTEM MICRO-PILLAR.
13. THE CONTRACTOR SHALL SUPPLY AND INSTALL AN ESB NETWORKS APPROVED MPE 50mm OD RED CONTINUOUS SERVICE DUCT AT A DEPTH OF 600mm FROM ESB NETWORK MINIPILLAR. DUCT, TO THE PUBLIC LIGHTING SYSTEM MICRO-PILLAR.
14. THE CONTRACTOR SHALL INSTALL ESB NETWORKS APPROVED YELLOW WARNING TAPE 300mm below FINISHED GROUND LEVEL ALONG THE FULL LENGTH OF AND OVER THE DUCT.
15. THE CONTRACTOR SHALL SUPPLY AND INSTALL A STRONG CONTINUOUS 10mm POLYPROPYLENE DRAW ROPE SECURED AT BOTH ENDS IN THE DUCT.
16. THE CONTRACTOR SHALL PROVIDE A COMPLETION CERTIFICATE FOR THE PUBLIC LIGHTING SYSTEM.
17. THERE SHOULD BE A SEPARATION OF AT LEAST 2 METERS BETWEEN ESB NETWORKS MINIPILLAR AND THE PUBLIC LIGHTING SYSTEM MICROPILLAR, PUBLIC LIGHTING COLUMN OR ANY OTHER PRIVATE MICRO PILLAR.

THE STREET LANTERNS PROPOSED WILL HAVE THE FOLLOWING
IN LINE WITH LOCAL AUTHORITY REQUIREMENTS:
-WITHIN RESIDENTIAL AREAS A COLOUR TEMP OF MAX 3000K
(WARM WHITE)
-LED LIFESPAN OF 100,000 HOURS.
-LANTERN WARRANTY PERIOD OF 10 YEARS
-PHOTOCELL WARRANTY PERIOD OF 10 YEARS
-LIGHTING DESIGN TO EN13201-2:2015
-P3 LIGHTING LEVELS IN RESIDENTIAL ESTATES
-AN LM REPORT/TEST CERT & DECLARATION OF CONFORMITY



○ TYPICAL DETAIL OF STREET LIGHTING & OCTAGONAL COLUMN
N.T.S. (A1)



○ UNMETERED PUBLIC LIGHTING SINGLE PHASE MICRO PILLAR
1:25 (A1)



○ TYPICAL IMAGE OF TYPE A-A LUMINAIRE
N.T.S. (A1)



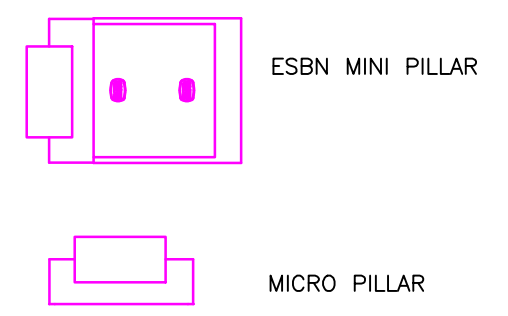
○ TYPICAL IMAGE OF TYPE B-B LUMINAIRE
N.T.S. (A1)



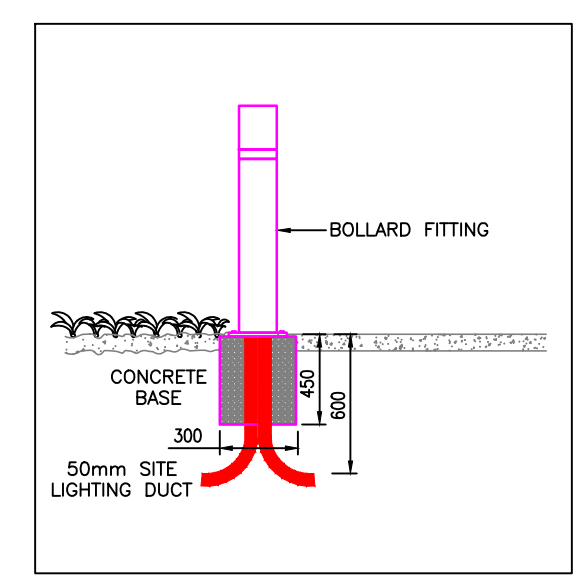
○ TYPICAL IMAGE OF TYPE C-C LUMINAIRE
N.T.S. (A1)



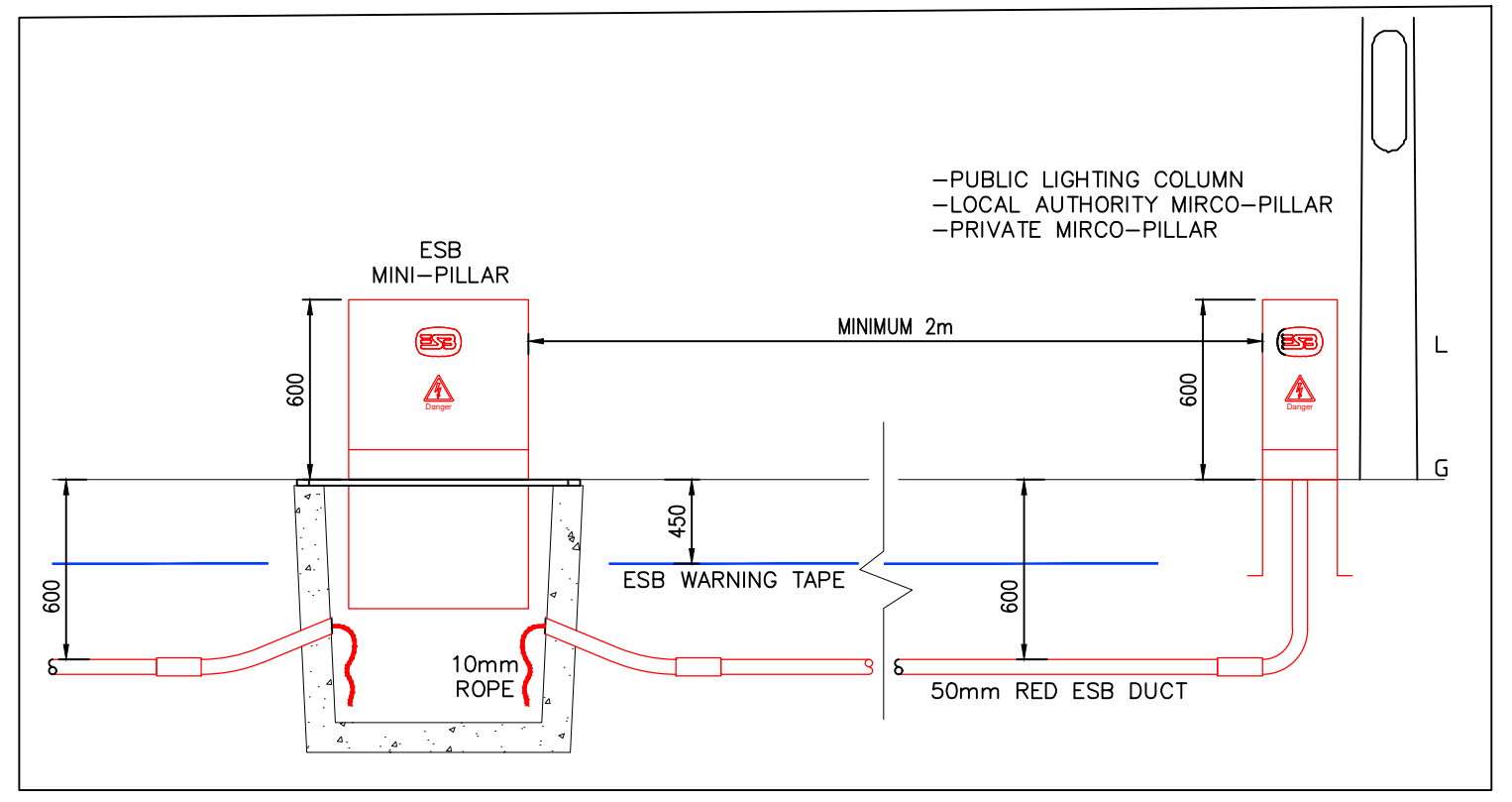
○ TYPICAL IMAGE OF TYPE D-D LUMINAIRE
N.T.S. (A1)



- | | | |
|---|---|---|
| C-C |  | LED COLUMN MOUNTED
LUMINAIRE C/W NEMA
SOCKET & PHOTOCELL
& 3M COLUMN |
| D-D |  | LED GROUND MOUNTED
BOLLARD LUMINAIRE
C/W NEMA SOCKET &
PHOTOCELL |
|  | | 50MM ϕ STREET
LIGHTING DUCT |
|  | | 50MM ϕ AMENITY
LIGHTING DUCT |
|  | | 50MM ϕ FUTURE
TIE-IN DUCT |
|  | | 50MM ϕ ESB MINI PILLAR
TO MICRO PILLAR DUCT |



○ TYPICAL BOLLARD MOUNTING DETAIL
N.T.S. (A1)



PUBLIC LIGHTING MICRO PILLAR/MINI PILLAR DETAIL
1:25 (A1)

General Notes

A. DO NOT SCALE FROM THIS DRAWING- WORK ONLY FROM FIGURED DIMENSIONS. B. ALL ERRORS & OMISSIONS TO BE REPORTED TO THE CONSULTING ENGINEER C. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ARCHITECTS AND STRUCTURAL ENGINEER'S DRAWINGS. D. REFER TO DOCUMENT REGISTER FOR DESCRIPTION OF STATUS CODES.

C01	A3	Mar '22	For Planning	C.G.
P02	S3	Oct '21	Issued for Discussion	C.MD
P01	S3	May '21	Issued for Discussion	J.Y.
Rev	Status	Date	Description	D.E.

Client	GALWAY CITY COUNCIL
Project Title	HEADFORD ROAD HOUSING, HEADFORD ROAD, GALWAY.

Drawing Title

ELECTRICAL SERVICES
PROPOSED LIGHTING SERVICES LAYOUT



Dublin	01 4872300
Cork	021 2375080
Roscommon	090 6602380
Website	www.varming.ie



Revision C01	Project Drawing Reference 19669-VCE-00-00-DR-E-1005		
Status A3	Varming Project Number 19669		
Date May 2021	Checked By C.G.	Drawn By J.Y.	Scale 1 : 200 @ A1