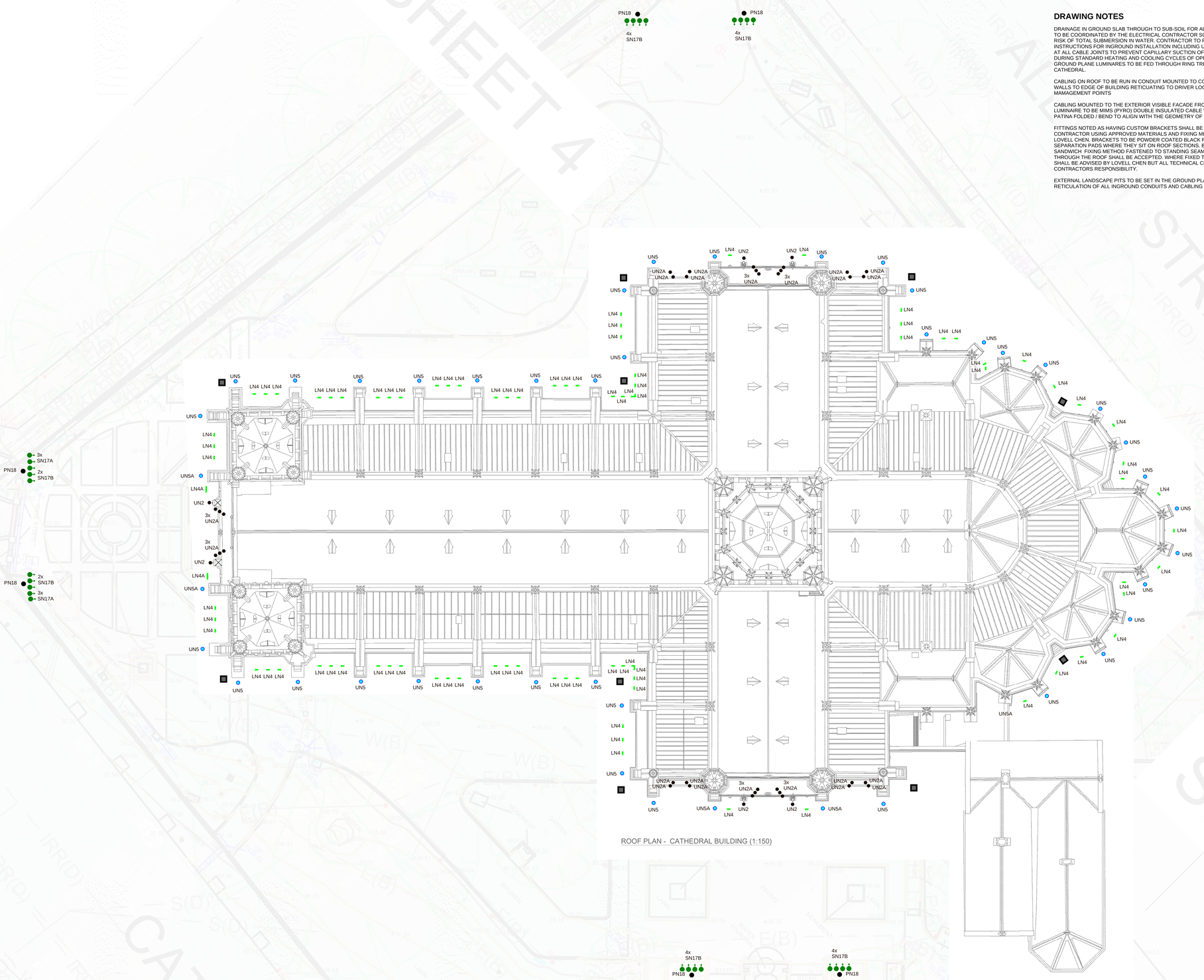


ROOF PLAN - CATHEDRAL BUILDING (1:150)

DRAWING NOTES

DRAINAGE IN GROUND SLAB THROUGH TO SUB-SOIL FOR ALL INGROUND LUMINAIRES TO BE COORDINATED BY THE ELECTRICAL CONTRACTOR SO THAT LIGHTS ARE NOT AT RISK OF TOTAL SUBMERSION IN WATER. CONTRACTOR TO FOLLOW MANUFACTURERS INSTRUCTIONS FOR INGROUND INSTALLATION INCLUDING USE OF IP68 CABLE GLANDS AT ALL CABLE JOINTS TO PREVENT CAPILLARY SUCTION OF WATER THROUGH CABLE DURING STANDARD HEATING AND COOLING CYCLES OF OPERATION. POWER TO GROUND PLANE LUMINARES TO BE FED THROUGH RING TRENCH AROUND BASE OF CATHEDRAL.

CABLING ON ROOF TO BE RUN IN CONDUIT MOUNTED TO CONCEALED SIDE OF PARAPET WALLS TO EDGE OF BUILDING RETICUATING TO DRIVER LOCATIONS / CABLE MAMAGEMENT POINTS

CABLING MOUNTED TO THE EXTERIOR VISIBLE FACADE FROM DRIVER TO THE END LUMINAIRE TO BE MIMS (PYRO) DOUBLE INSULATED CABLE WITH ANTIQUE COPPER PATINA FOLDED / BEND TO ALIGN WITH THE GEOMETRY OF THE FACADE / BUILDING

FITTINGS NOTED AS HAVING CUSTOM BRACKETS SHALL BE SHOP DRAWN BY THE CONTRACTOR USING APPROVED MATERIALS AND FIXING METHODS APPROVED BY LOVELL CHEN. BRACKETS TO BE POWDER COATED BLACK FINISH WITH RUBBER SEPARATION PADS WHERE THEY SIT ON ROOF SECTIONS. BRACKETS TO USE A SANDWICH FIXING METHOD FASTENED TO STANDING SEAM. NO PENETRATIONS THROUGH THE ROOF SHALL BE ACCEPTED. WHERE FIXED TO STONE, FIXINGS METHOD SHALL BE ADVISED BY LOVELL CHEN BUT ALL TECHNICAL CRITERIA SHALL REMAIN THE CONTRACTORS RESPONSIBILITY.

EXTERNAL LANDSCAPE PITS TO BE SET IN THE GROUND PLANE TO ENABLE RETICULATION OF ALL INGROUND CONDUITS AND CABLING FROM MAIN CABLING HUB

INSTALLATION NOTES:

TYPE WN1 TO BE EXISTING HERITAGE WALL LANTERN FLANKING ENTRIES TO THE WEST, NORTH AND SOUTH DOORS. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE UN2 TO BE INGROUND NARROW BEAM INGROUND UPLIGHT TO THE BASE OF CATHEDRAL NARTHEX AND TRANSEPT ENTRANCE PIERS CENTRED IN PIER OFFSET FROM FACE BY APPROX 600-800mm TO THE CENTRE OF THE LUMINAUIRE. FINAL OFFSET DISTANCE AND POSITIONING TO BE CONFIRMED ON SITE. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION. FITTING TO BE TILTED A UNIFORM ANGLE INWARD TOWARDS THE PIER

TYPE UN2A TO BE INGROUND NARROW BEAM INGROUND UPLIGHT TO THE BASE OF CATHEDRAL NARTHEX AND TRANSEPT ENTRANCE PORTAL ORNAMENTATION. FITTINGS TO BE ORIENTED TO ALIGN ON A 45 DEGREE TO THE CENTRE OF THE THREE VERTICAL RELIEFE COLUMNS IN THE ARCHITECTURE OFFSET BY 200-300mm FROM THE FACADE. LINEAR SPREAD LENS TO BE ORIENTED TO FOLLOW THE ARCH OF THE COLUMN ACROSS THE ENTRT. FINAL OFFSET DISTANCE AND POSITIONING TO BE CONFIRMED VON SITE. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION.

TYPE LN3 TO BE 450mm MODULES OF LED INGROUND PROFILE WITH INTEGRATED LENS SYSTEM TO GRAZE LIGHT UP THE FACADE OF THE WEST, NORTH AND SOUTH FACADES ABOVE THE ENTRY. FITTING TO BE MOUNTED OFF ADJUSTABLE BRACKETS TO THE INSIDE FACE OF THE SMALL PARAPET WALL ABOVE THE ENTRY. FINAL AIMING TO BE CONFIRMED ON SITE AND LOCKED IN PLACE.

TYPE LN4 TO BE CAST INGROUND 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES SET IN GROUND PLANE / PAVING AROUND THE BASE OF THE CATHEDRAL. CONTRACTOR TO INSTALL INGROUND BLOCKOUT AND THEN INSET MODULAR INGROUND GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1200mm AND 1100mm CENTRE TO CENTRE. POWER TO BE FED THROUGH RING TRENCH AROUND BASE OF CATHEDRAL. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION.

TYPE UN5 TO BE GROUND RECESSED ADJUSTABLE UPLIGHT AT BASE OF EACH PIER. FITTING TO BE OFFSET BY 1000mm FROM THE FACE OF THE COLUMN TO THE CENTRE OF THE FITTING. FINAL SITE CONDITIONS MAY VARY THIS - ALL FITTINGS MUST BE A CONSISTENT OFFSET. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION. FITTINGS TO BE INSTALLED IN CAST IN BLOCKOUT SET IN THE GROUND PLANE WITH DRAINAGE THROUGH TO SUBSOIL

TYPE LN6 TO BE SURFACE MOUNTED 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES MOUNTED TO THE ROOF OF THE CONFESSIONAL MODULES ON CUSTOM STAND OFF BRACKETS (BY CONTRACTOR) CONTRACTOR TO INSTALL BRACKET FIX HOUSING AND LN6 MODULAR GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1200mm AND 1100mm CENTRE TO CENTRE.
POWER ROUTE TO BE FED VIA MIMS CABLING UP FROM THE GROUND PLANE

TYPE DN7 TO BE EXISTING CEILING MOUNTED HERITAGE LANTERN IN THE ENTRY VESTIBULE TO THE WEST NARTHEX. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE DN8 TO BE EXISTING HERITAGE SOFFIT MOUNTED LANTERN FLANKING ENTRIES TO THE WEST, NORTH AND SOUTH DOORS. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE LN9 TO BE SURFACE MOUNTED 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES MOUNTED TO THE AISLE ROOF ON CUSTOM STAND OFF BRACKETS (BY CONTRACTOR) CONTRACTOR TO INSTALL BRACKET FIX HOUSING AND LN9 MODULAR GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1000mm AND CENTRED EITHER SIDE OF THE WINDOW. WHERE ACCESS HATCHES CONLICT THE FINAL LOCATON SHALL BE CONFIRMED ON SITE
POWER ROUTE TO BE EACH END OF THE ROOM ALONG RHE WINDOW SIDE IN A SECURED CONDUIT

TYPE LN10A TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF BRACKET TO INSIDE LIP OF PARAPET TO BOX GUTTER ABOVE CHEVETTE ROOF STRUCTURES IN END TO END CONFIGURATION TO PROVIDE A WASH OF LIGHT UP THE FACADE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR
DRIVERS CO-LOCATED WITH LN10B IN ENCLOSURE ON THE INSIDE OF THE FACADE COLUMNS

TYPE LN10B TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF BRACKET TO BOTTOM EDGE OF CHEVETTE ROOF STRUCTURES IN END TO END CONFIGURATION TO PROVIDE A WASH OF LIGHT UP THE FACADE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR. BRACKET TO BE BRACED ON END TO THE STONE PARAPET EDGE WO NO PENETRATIONS THROUGH GUTTER ARE REQUIRED
DRIVERS CO-LOCATED WITH LN10A IN ENCLOSURE ON THE INSIDE OF THE FACADE COLUMNS

TYPE LN11 TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF CUSTOM BRACKET TO INSIDE LIP OF PARAPET TO BOX GUTTER TO THE MAIN NAVE ROOF BETWEEN THE CRENELLATIONS PINS IN AN END TO END CONFIGURATION TO PROVIDE A WASH ACROSS THE MAIN CATHEDTRAL ROOF STRUCTURE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR
DRIVERS TO BE LOCATED IN WEATHERPROOF ENCLOSURE ON ROOF MOUNTED TO INSIDE PARAPET AT EACH END

TYPE SN12 TO BE ROOF MOUNTED LED SPOTLIGHT WITH OPTICS, GLARE SHIELD AND SNOOT TO MANAGE LIGHT SPILL TO BE AIMED AT MAIN CATHEDRAL SPIRE. FITTINGS TO BE MOUNTED IN VERTICAL CONFIGURATION TO THE INSIDE OF MAIN NAVE ROOF CRENELLATIONS. POWER TO BE FED ALONG INSIDE OF PARAPEP TO DRIVER ENCLOSURE AT END OF ROOF

TYPE LN13 TO BE 600mm LONG LINEAR LED MODULAR LED GRAZER MOUNTED TO PARAPET LEDGE OF BELLTOWERS AND SPIRE AIMING UP AT THE TOWER. FITTINGS INSTALLED IN SECTIONS BETWEEN ARCHITECTURAL FACADE FINS. FINAL LENGTH TO BE SIZED TO ALLOW INSTALATION AND REMOVAL THROUGH THE ACCESS HATCHES.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE. POWER TO BE RUN UP THROUGH INTERIOR OF THE BUILDING

TYPE SN14 TO BE ADJUSTABLE LED SPOTLIGHT MOUNTED TO PARAPET LEDGE OF BELLTOWER AND SPIRE AIMING UP AT THE CRENELLATIONS.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE. POWER TO BE RUN UP THROUGH INTERIOR OF THE BUILDING

TYPE LN15 TO BE LINEAR LED MODULAR LED GRAZER MOUNTED TO PARAPET LEDGE OF BELLTOWER AND SPIRE AIMING UP AT THE TOWER SPIRE. FITTINGS INSTALLED IN SECTIONS AROUND ANGLES OF THE ROOF.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE

TYPE SN16 TO BE ADJUSTABLE LED SPOTLIGHT MOUNTED TO PARAPET LEDGE OF SPIRE AIMING UP AT THE WINDOWS.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE SPIRE

TYPE SN17A TO BE ADJUSTABLE POLE MOUNTED SPOTLIGHT WITH VARIABLE OPTICS AND SNOOT. FITTING TO BE MOUNTED VIA CLAMP CONFIGURATION IN VERTICAL ARRAY ARRANGEMENT AIMING AT THE WESTERN, NORTHERN AND SOUTHERN FACADES. FINAL AIMING TO BE COMISSIONED ON SITE AND LOCKED INTO PLACE. FITTING TO INCLUDE GLARE SHIELD, OPTICS AND SNOOT TO LIMIT GLARE

TYPE SN17B TO BE ADJUSTABLE POLE MOUNTED SPOTLIGHT WITH VARIABLE OPTICS AND SNOOT. FITTING TO BE MOUNTED VIA CLAMP CONFIGURATION IN VERTICAL ARRAY ARRANGEMENT AIMING AT THE WESTERN, NORTHERN AND SOUTHERN FACADES. FINAL AIMING TO BE COMISSIONED ON SITE AND LOCKED INTO PLACE. FITTING TO INCLUDE GLARE SHIELD, OPTICS AND SNOOT TO LIMIT GLARE

TYPE PN18 TO BE APPROX 6M TALL TAPERED PIPE POLE MOUNTED TO SUNKEN RAG BOLT ASSEMBLY WITH SPIKE PINACLE. POLE TO BE BLACK OR OTHER COLOUR AS APPROVED BY THE HERITAGE CONSULTANT

TYPE SN19 TO BE SURFACE MOUNTED ADJUSTABLE LED FLOOD LIGHT MOUNTED TO INTERIOR OF SPIRE BEHIND WINDOWS TO BACKLIGHT THESE. FITTINGS TO BE MOUNTED OFF BRACKETS TO THE INTERIOR WALL OF THE BUILDING. FINAL AIMING TO BE CONFIRMED ON SITE.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE SPIRE

TYPE SN20 TO BE SURFACE MOUNTED ADJUSTABLE LED FLOOD LIGHT MOUNTED TO INTERIOR WALL OF BELL TOWER AND SPIRE BEHIND LOUVRE WINDOWS TO BACKLIGHT THESE AREAS AND SPILL LIGHT THROUGH THE GAPS. FITTINGS TO BE MOUNTED OFF BRACKETS TO THE INTERIOR WALL OF THE BUILDING. FINAL AIMING TO BE CONFIRMED ON SITE.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE

TYPE UN21 TO BE SURFACE MOUNTED WINDOW SHAPER LUMINAIRE MOUNTED OF CUSTOM BRACKET FIXED TO THE BOTTOM EDGE OF THE WINDOW STRUCTURE. CABLING TO BE DETERMINED ON SITE - PROPOSED STRATEGY TO BE MIMS (PYRO) DOUBLE INSULATED CABLE RUN ALONG LEDGE TO THEN PENETRATE THE FACADE OR WRAP AROUND TO TRHEN RETICULATE ACROSS THE ROOF

TYPE UN22 TO BE SURFACE MOUNTED WINDOW SHAPER LUMINAIRE MOUNTED OF CUSTOM BRACKET FIXED TO THE BOTTOM EDGE OF THE WINDOW STRUCTURE. CABLING TO BE DETERMINED ON SITE - PROPOSED STRATEGY TO BE MIMS (PYRO) DOUBLE INSULATED CABLE RUN ALONG LEDGE TO THEN PENETRATE THE FACADE OR DROP DOWN TO THE GROUND

1 **ST PATRICK'S CATHEDRAL - GROUND LEVEL LIGHTING LAYOUT**
SCALE 1:150

Rev	Description	Date	Rev	Description	Date	Rev	Description	Date
01	PRELIMINARY ISSUE	21.02.25						
02	DESIGN DEVELOPMENT	24.04.25						

NDYLIGHT
LIGHTING DESIGN
NDYLIGHT LEVEL 1, 60 MILLER STREET, NORTH SYDNEY, NSW 2060, AUS
TELEPHONE +61 2 9928 6800 FACSIMILE +61 2 9955 6900 http://www.ndy.com
A SPECIALIST DIVISION OF NDY Management Pty Ltd ABN 29 003 234 571

Copyright ©NDY Management Pty Limited.

NDY QA SYSTEM
Reason For issue
COORDINATION
Authorisation
By NB 24.04.25
Verification Of Latest Amendment
By NB 24.04.25

Norman Disney & Young
CONSULTING ENGINEERS
60 MILLER STREET
NORTH SYDNEY NSW 2060
AUSTRALIA
T +61 2 9928 6800
F +61 2 9955 6900
www.ndy.com
NDY Management Pty Ltd
ABN 29 003 234 571

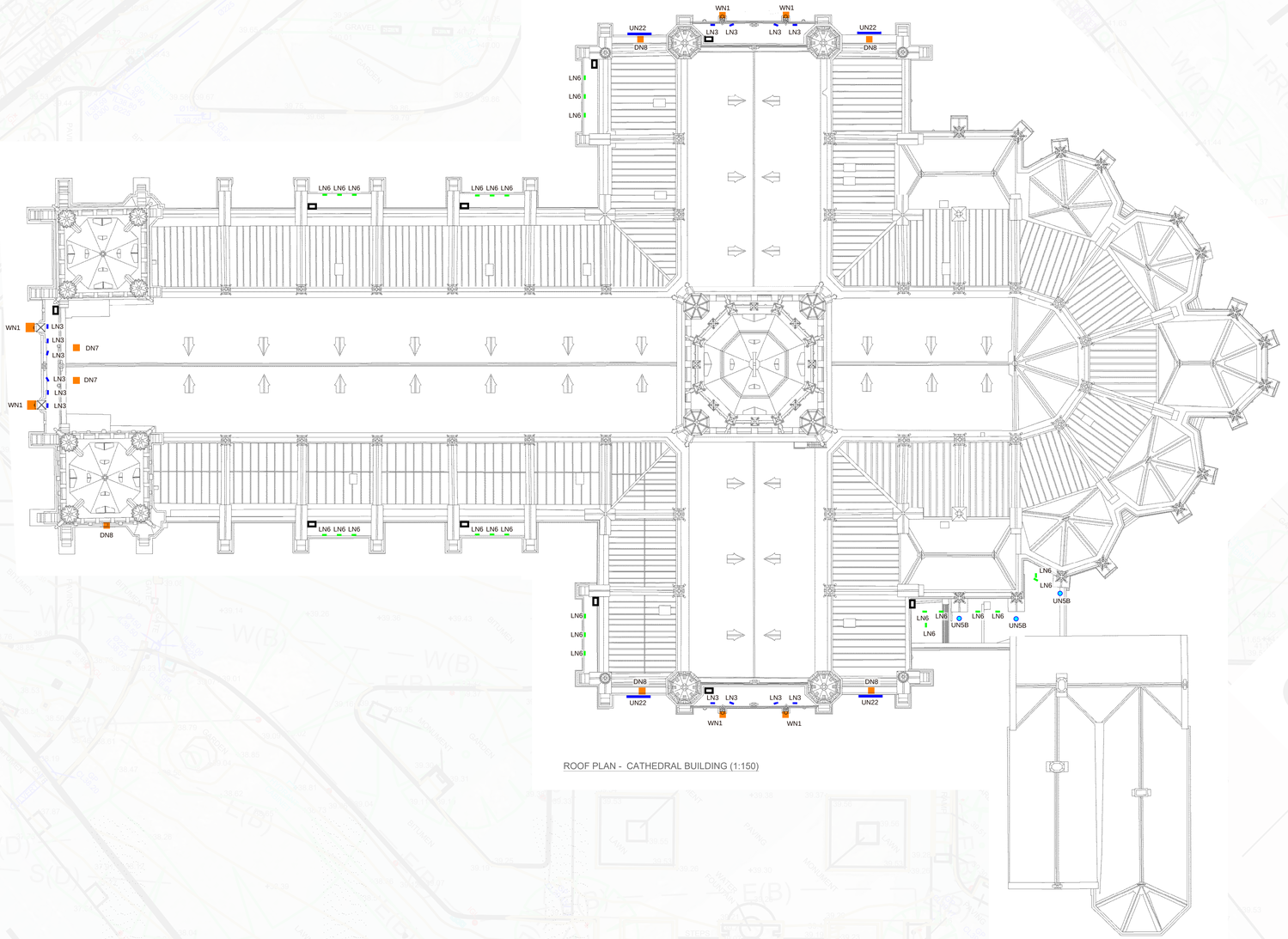
This drawing is diagrammatic and shows the general arrangement of equipment. Any information involving measurement of the works shall be taken from architectural and structural drawings, workshop drawings by others and conditions at the site. The works shall comply with the contract conditions and Statutory Regulations.

Project
ST PATRICK'S CATHEDRAL
1 CATHEDRAL PLACE
Title
LIGHTING DESIGN SERVICES
FACADE LIGHTING
LEVEL 01

Scale	Date	Drawn	Design	Project No.
As indicated	21.02.25	MJ	NB	m39460-003N

Set Of
Cad No. 2013
Drawing No. N-L01-01
Revision 02

A1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150
When reproduced at correct scale this line measures 150mm



ROOF PLAN - CATHEDRAL BUILDING (1:150)

DRAWING NOTES

DRAINAGE IN GROUND SLAB THROUGH TO SUB-SOIL FOR ALL INGROUND LUMINAIRES TO BE COORDINATED BY THE ELECTRICAL CONTRACTOR SO THAT LIGHTS ARE NOT AT RISK OF TOTAL SUBMERSION IN WATER. CONTRACTOR TO FOLLOW MANUFACTURERS INSTRUCTIONS FOR INGROUND INSTALLATION INCLUDING USE OF IP68 CABLE GLANDS AT ALL CABLE JOINTS TO PREVENT CAPILLARY SUCTION OF WATER THROUGH CABLE DURING STANDARD HEATING AND COOLING CYCLES OF OPERATION. POWER TO GROUND PLANE LUMINARES TO BE FED THROUGH RING TRENCH AROUND BASE OF CATHEDRAL

CABLING ON ROOF TO BE RUN IN CONDUIT MOUNTED TO CONCEALED SIDE OF PARAPET WALLS TO EDGE OF BUILDING RETICUATING TO DRIVER LOCATIONS / CABLE MAMAGEMENT POINTS

CABLING MOUNTED TO THE EXTERIOR VISIBLE FACADE FROM DRIVER TO THE END LUMINAIRE TO BE MIMS (PYRO) DOUBLE INSULATED CABLE WITH ANTIQUE COPPER PATINA FOLDED / BEND TO ALIGN WITH THE GEOMETRY OF THE FACADE / BUILDING

FITTINGS NOTED AS HAVING CUSTOM BRACKETS SHALL BE SHOP DRAWN BY THE CONTRACTOR USING APPROVED MATERIALS AND FIXING METHODS APPROVED BY LOVELL CHEN. BRACKETS TO BE POWDER COATED BLACK FINISH WITH RUBBER SEPARATION PADS WHERE THEY SIT ON ROOF SECTIONS. BRACKETS TO USE A SANDWICH FIXING METHOD FASTENED TO STANDING SEAM. NO PENETRATIONS THROUGH THE ROOF SHALL BE ACCEPTED. WHERE FIXED TO STONE, FIXINGS METHOD SHALL BE ADVISED BY LOVELL CHEN BUT ALL TECHNICAL CRITERIA SHALL REMAIN THE CONTRACTORS RESPONSIBILITY.

EXTERNAL LANDSCAPE PITS TO BE SET IN THE GROUND PLANE TO ENABLE RETICULATION OF ALL INGROUND CONDUITS AND CABLING FROM MAIN CABLING HUB

INSTALLATION NOTES:

TYPE WN1 TO BE EXISTING HERITAGE WALL LANTERN FLANKING ENTRIES TO THE WEST, NORTH AND SOUTH DOORS. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE UN2 TO BE INGROUND NARROW BEAM INGROUND UPLIGHT TO THE BASE OF CATHEDRAL NARTHEX AND TRANSEPT ENTRANCE PIERS CENTRED IN PIER OFFSET FROM FACE BY APPROX 600-800mm TO THE CENTRE OF THE LUMINAUIRE. FINAL OFFSET DISTANCE AND POSITIONING TO BE CONFIRMED ON SITE. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION. FITTING TO BE TILTED A UNIFORM ANGLE INWARD TOWARDS THE PIER

TYPE UN2A TO BE INGROUND NARROW BEAM INGROUND UPLIGHT TO THE BASE OF CATHEDRAL NARTHEX AND TRANSEPT ENTRANCE PORTAL ORNAMENTATION. FITTINGS TO BE ORIENTED TO ALIGN ON A 45 DEGREE TO THE CENTRE OF THE THREE VERTICAL RELIEFE COLUMNS IN THE ARCHITECTURE OFFSET BY 200-300mm FROM THE FACADE. LINEAR SPREAD LENS TO BE DRIENTED TO FOLLOW THE ARCH OF THE COLUMN ACROSS THE ENTRT. FINAL OFFSET DISTANCE AND POSITIONING TO BE CONFIRMED VON SITE, REFER TO DRAWING NOTES FOR INGROUND INSTALLATION.

TYPE LN3 TO BE 450mm MODULES OF LED INGROUND PROFILE WITH INTEGRATED LENS SYSTEM TO GRAZE LIGHT UP THE FACADE OF THE WEST, NORTH AND SOUTH FACADES ABOVE THE ENTRY. FITTING TO BE MOUNTED OFF ADJUSTABLE BRACKETS TO THE INSIDE FACE OF THE SMALL PARAPET WALL ABOVE THE ENTRY. FINAL AIMING TO BE CONFIRMED ON SITE AND LOCKED IN PLACE.

TYPE LN4 TO BE CAST INGROUND 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES SET IN GROUND PLANE / PAVING AROUND THE BASE OF THE CATHEDRAL. CONTRACTOR TO INSTALL INGROUND BLOCKOUT AND THEN INSET MODULAR INGROUND GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1200mm AND 1100mm CENTRE TO CENTRE. POWER TO BE FED THROUGH RING TRENCH AROUND BASE OF CATHEDRAL. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION.

TYPE UN5 TO BE GROUND RECESSED ADJUSTABLE UPLIGHT AT BASE OF EACH PIER. FITTING TO BE OFFSET BY 1000mm FROM THE FACE OF THE COLUMN TO THE CENTRE OF THE FITTING. FINAL SITE CONDITIONS MAY VARY THIS - ALL FITTINGS MUST BE A CONSISTENT OFFSET. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION. FITTINGS TO BE INSTALLED IN CAST IN BLOCKOUT SET IN THE GROUND PLANE WITH DRAINAGE THROUGH TO SUBSOIL

TYPE LN6 TO BE SURFACE MOUNTED 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES MOUNTED TO THE ROOF OF THE CONFESSIONAL MODULES ON CUSTOM STAND OFF BRACKETS (BY CONTRACTOR) CONTRACTOR TO INSTALL BRACKET FIX HOUSING AND LN6 MODULAR GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1200mm AND 1100mm CENTRE TO CENTRE.
POWER ROUTE TO BE FED VIA MIMS CABLING UP FROM THE GROUND PLANE

TYPE DN7 TO BE EXISTING CEILING MOUNTED HERITAGE LANTERN IN THE ENTRY VESTIBULE TO THE WEST NARTHEX. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE DN8 TO BE EXISTING HERITAGE SOFFIT MOUNTED LANTERN FLANKING ENTRIES TO THE WEST, NORTH AND SOUTH DOORS. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE LN9 TO BE SURFACE MOUNTED 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES MOUNTED TO THE AISLE ROOF ON CUSTOM STAND OFF BRACKETS (BY CONTRACTOR) CONTRACTOR TO INSTALL BRACKET FIX HOUSING AND LN9 MODULAR GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1000mm AND CENTRED EITHER SIDE OF THE WINDOW. WHERE ACCESS HATCHES CONLICT THE FINAL LOCATON SHALL BE CONFIRMED ON SITE
POWER ROUTE TO BE EACH END OF THE ROOM ALONG RHE WINDOW SIDE IN A SECURED CONDUIT

TYPE LN10A TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF BRACKET TO INSIDE LIP OF PARAPET TO BOX GUTTER ABOVE CHEVETTE ROOF STRUCTURES IN END TO END CONFIGURATION TO PROVIDE A WASH OF LIGHT UP THE FACADE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR
DRIVERS CO-LOCATED WITH LN10B IN ENCLOSURE ON THE INSIDE OF THE FACADE COLUMNS

TYPE LN10B TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF BRACKET TO BOTTOM EDGE OF CHEVETTE ROOF STRUCTURES IN END TO END CONFIGURATION TO PROVIDE A WASH OF LIGHT UP THE FACADE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR. BRACKET TO BE BRACED ON END TO THE STONE PARAPET EDGE WO NO PENETRATIONS THROUGH GUTTER ARE REQUIRED
DRIVERS CO-LOCATED WITH LN10A IN ENCLOSURE ON THE INSIDE OF THE FACADE COLUMNS

TYPE LN11 TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF CUSTOM BRACKET TO INSIDE LIP OF PARAPET TO BOX GUTTER TO THE MAIN NAVE ROOF BETWEEN THE CRENELLATIONS IN AN END TO END CONFIGURATION TO PROVIDE A WASH ACROSS THE MAIN CATHEDTRAL ROOF STRUCTURE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR
DRIVERS TO BE LOCATED IN WEATHERPROOF ENCLOSURE ON ROOF MOUNTED TO INSIDE PARAPET AT EACH END

TYPE SN12 TO BE ROOF MOUNTED LED SPOTLIGHT WITH OPTICS, GLARE SHIELD AND SNOOT TO MANAGE LIGHT SPILL TO BE AIMED AT MAIN CATHEDRAL SPIRE. FITTINGS TO BE MOUNTED IN VERTICAL CONFIGURATION TO THE INSIDE OF MAIN NAVE ROOF CRENELLATIONS. POWER TO BE FED ALONG INSIDE OF PARAPEP TO DRIVER ENCLOSURE AT END OF ROOF

TYPE LN13 TO BE 600mm LONG LINEAR LED MODULAR LED GRAZER MOUNTED TO PARAPET LEDGE OF BELLTOWERS AND SPIRE AIMING UP AT THE TOWER. FITTINGS INSTALLED IN SECTIONS BETWEEN ARCHITECTURAL FACADE FINS. FINAL LENGTH TO BE SIZED TO ALLOW INSTALLATION AND REMOVAL THROUGH THE ACCESS HATCHES. DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE. POWER TO BE RUN UP THROUGH INTERIOR OF THE BUILDING

TYPE SN14 TO BE ADJUSTABLE LED SPOTLIGHT MOUNTED TO PARAPET LEDGE OF BELLTOWER AND SPIRE AIMING UP AT THE CRENELLATIONS.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE. POWER TO BE RUN UP THROUGH INTERIOR OF THE BUILDING

TYPE LN15 TO BE LINEAR LED MODULAR LED GRAZER MOUNTED TO PARAPET LEDGE OF BELLTOWER AND SPIRE AIMING UP AT THE TOWER SPIRE. FITTINGS INSTALLED IN SECTIONS AROUND ANGLES OF THE ROOF.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE

TYPE SN16 TO BE ADJUSTABLE LED SPOTLIGHT MOUNTED TO PARAPET LEDGE OF SPIRE AIMING UP AT THE WINDOWS.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE SPIRE

TYPE SN17A TO BE ADJUSTABLE POLE MOUNTED SPOTLIGHT WITH VARIABLE OPTICS AND SNOOT. FITTING TO BE MOUNTED VIA CLAMP CONFIGURATION IN VERTICAL ARRAY ARRANGEMENT AIMING AT THE WESTERN, NORTHERN AND SOUTHERN FACADES. FINAL AIMING TO BE COMISSIONED ON SITE AND LOCKED INTO PLACE. FITTING TO INCLUDE GLARE SHIELD, OPTICS AND SNOOT TO LIMIT GLARE

TYPE SN17B TO BE ADJUSTABLE POLE MOUNTED SPOTLIGHT WITH VARIABLE OPTICS AND SNOOT. FITTING TO BE MOUNTED VIA CLAMP CONFIGURATION IN VERTICAL ARRAY ARRANGEMENT AIMING AT THE WESTERN, NORTHERN AND SOUTHERN FACADES. FINAL AIMING TO BE COMISSIONED ON SITE AND LOCKED INTO PLACE. FITTING TO INCLUDE GLARE SHIELD, OPTICS AND SNOOT TO LIMIT GLARE

TYPE PN18 TO BE APPROX.6M TALL TAPERED PIPE POLE MOUNTED TO SUNKEN RAG BOLT ASSEMBLY WITH SPIKE FINACLE. POLE TO BE BLACK OR OTHER COLOUR AS APPROVED BY THE HERITAGE CONSULTANT

TYPE SN19 TO BE SURFACE MOUNTED ADJUSTABLE LED FLOOD LIGHT MOUNTED TO INTERIOR OF SPIRE BEHIND WINDOWS TO BACKLIGHT THESE. FITTINGS TO BE MOUNTED OFF BRACKETS TO THE INTERIOR WALL OF THE BUILDING. FINAL AIMING TO BE CONFIRMED ON SITE.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE SPIRE

TYPE SN20 TO BE SURFACE MOUNTED ADJUSTABLE LED FLOOD LIGHT MOUNTED TO INTERIOR WALL OF BELL TOWER AND SPIRE BEHIND LOUVRE WINDOWS TO BACKLIGHT THESE AREAS AND SPILL LIGHT THROUGH THE GAPS. FITTINGS TO BE MOUNTED OFF BRACKETS TO THE INTERIOR WALL OF THE BUILDING. FINAL AIMING TO BE CONFIRMED ON SITE.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE

TYPE UN21 TO BE SURFACE MOUNTED WINDOW SHAPER LUMINAIRE MOUNTED OF CUSTOM BRACKET FIXED TO THE BOTTOM EDGE OF THE WINDOW STRUCTURE. CABLING TO BE DETERMINED ON SITE - PROPOSED STRATEGY TO BE MIMS (PYRO) DOUBLE INSULATED CABLE RUN ALONG LEDGE TO THEN PENETRATE THE FACADE OR WRAP AROUND TO TRHEN RETICULATE ACROSS THE ROOF

TYPE UN22 TO BE SURFACE MOUNTED WINDOW SHAPER LUMINAIRE MOUNTED OF CUSTOM BRACKET FIXED TO THE BOTTOM EDGE OF THE WINDOW STRUCTURE. CABLING TO BE DETERMINED ON SITE - PROPOSED STRATEGY TO BE MIMS (PYRO) DOUBLE INSULATED CABLE RUN ALONG LEDGE TO THEN PENETRATE THE FACADE OR DROP DOWN TO THE GROUND

2 ST PATRICK'S CATHEDRAL - LEVEL 01 LIGHTING LAYOUT
SCALE 1:150

Rev	Description	Date	Rev	Description	Date	Rev	Description	Date
01	PRELIMINARY ISSUE	21.02.25						
02	DESIGN DEVELOPMENT	24.04.25						

NDYLIGHT
LIGHTING DESIGN
NDYLIGHT LEVEL 1, 60 MILLER STREET, NORTH SYDNEY, NSW 2060, AUS
TELEPHONE +61 2 9928 6800 FACSIMILE +61 2 9955 6900 http://www.ndy.com
A SPECIALIST DIVISION OF NDY Management Pty Ltd ABN 29 003 234 571
Copyright ©NDY Management Pty Limited.

NDY QA SYSTEM
Reason For issue
COORDINATION
Authorisation
By NB 24.04.25
Verification Of Latest Amendment
By NB 24.04.25

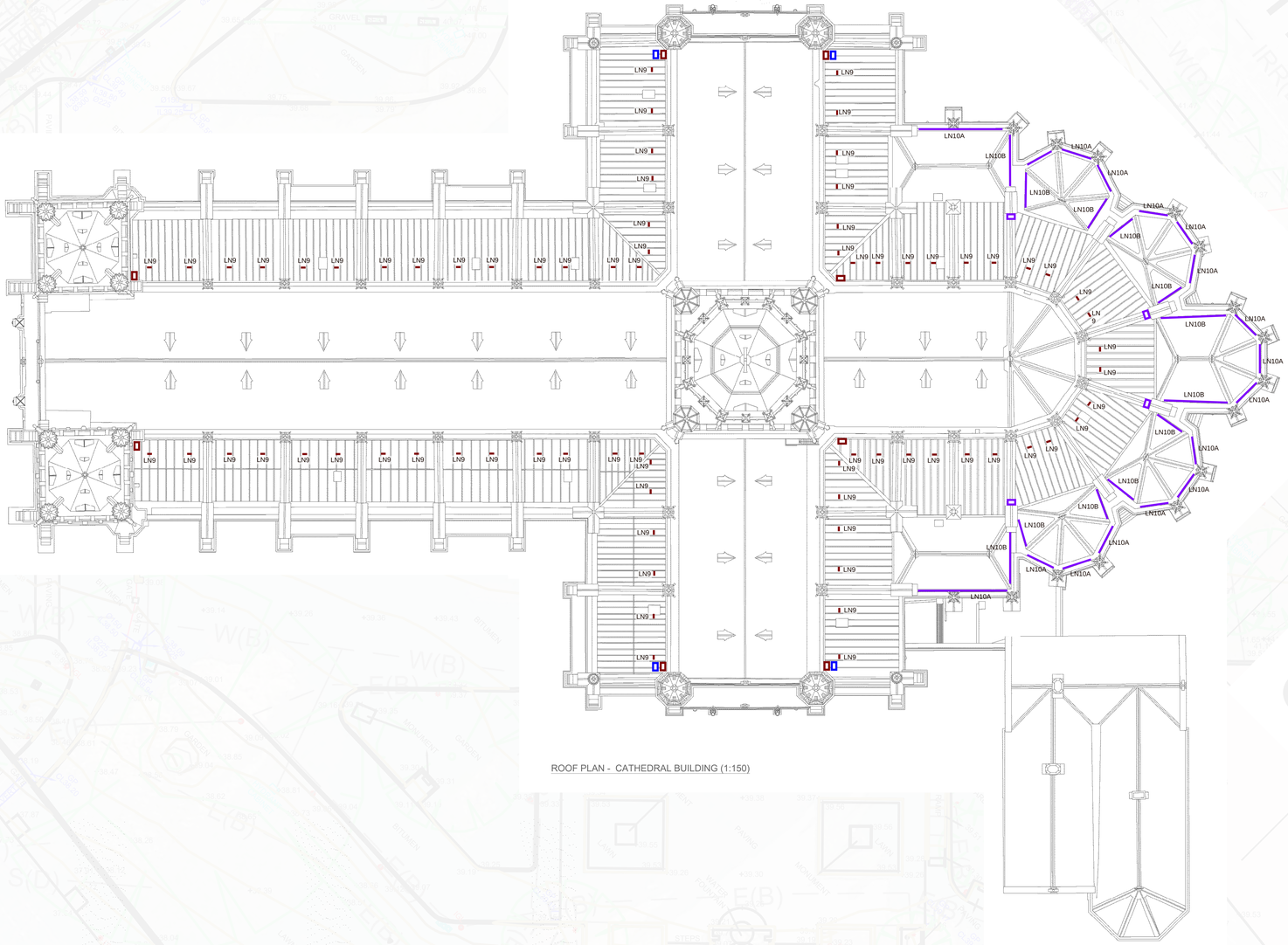
Norman Disney & Young
CONSULTING ENGINEERS
60 MILLER STREET
NORTH SYDNEY NSW 2060
AUSTRALIA
T +61 2 9928 6800
F +61 2 9955 6900
www.ndy.com
NDY Management Pty Ltd
ABN 29 003 234 571
This drawing is diagrammatic and shows the general arrangement of equipment. Any information involving measurement of the works shall be taken from architectural and structural drawings, workshop drawings by others and conditions at the site. The works shall comply with the contract conditions and Statutory Regulations.

Project
ST PATRICK'S CATHEDRAL
1 CATHEDRAL PLACE
Title LIGHTING DESIGN SERVICES
FACADE LIGHTING
LEVEL 02

Set Of
Cad No. 2013
Drawing No. N-L02-01
Revision 02

Scale	Date	Drawn	Design	Project No.
As indicated	21.02.25	MJ	NB	m39460-003N

A1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150
When reproduced at correct scale this line measures 150mm



ROOF PLAN - CATHEDRAL BUILDING (1:150)

DRAWING NOTES

DRAINAGE IN GROUND SLAB THROUGH TO SUB-SOIL FOR ALL INGROUND LUMINAIRES TO BE COORDINATED BY THE ELECTRICAL CONTRACTOR SO THAT LIGHTS ARE NOT AT RISK OF TOTAL SUBMERSION IN WATER. CONTRACTOR TO FOLLOW MANUFACTURERS INSTRUCTIONS FOR INGROUND INSTALLATION INCLUDING USE OF IP68 CABLE GLANDS AT ALL CABLE JOINTS TO PREVENT CAPILLARY SUCTION OF WATER THROUGH CABLE DURING STANDARD HEATING AND COOLING CYCLES OF OPERATION. POWER TO GROUND PLANE LUMINARES TO BE FED THROUGH RING TRENCH AROUND BASE OF CATHEDRAL.

CABLING ON ROOF TO BE RUN IN CONDUIT MOUNTED TO CONCEALED SIDE OF PARAPET WALLS TO EDGE OF BUILDING RETICUATING TO DRIVER LOCATIONS / CABLE MAMAGEMENT POINTS

CABLING MOUNTED TO THE EXTERIOR VISIBLE FACADE FROM DRIVER TO THE END LUMINAIRE TO BE MIMS (PYRO) DOUBLE INSULATED CABLE WITH ANTIQUE COPPER PATINA FOLDED / BEND TO ALIGN WITH THE GEOMETRY OF THE FACADE / BUILDING

FITTINGS NOTED AS HAVING CUSTOM BRACKETS SHALL BE SHOP DRAWN BY THE CONTRACTOR USING APPROVED MATERIALS AND FIXING METHODS APPROVED BY LOVELL CHEN. BRACKETS TO BE POWDER COATED BLACK FINISH WITH RUBBER SEPARATION PADS WHERE THEY SIT ON ROOF SECTIONS. BRACKETS TO USE A SANDWICH FIXING METHOD FASTENED TO STANDING SEAM. NO PENETRATIONS THROUGH THE ROOF SHALL BE ACCEPTED. WHERE FIXED TO STONE, FIXINGS METHOD SHALL BE ADVISED BY LOVELL CHEN BUT ALL TECHNICAL CRITERIA SHALL REMAIN THE CONTRACTORS RESPONSIBILITY.

EXTERNAL LANDSCAPE PITS TO BE SET IN THE GROUND PLANE TO ENABLE RETICULATION OF ALL INGROUND CONDUITS AND CABLING FROM MAIN CABLING HUB

INSTALLATION NOTES:

TYPE WN1 TO BE EXISTING HERITAGE WALL LANTERN FLANKING ENTRIES TO THE WEST, NORTH AND SOUTH DOORS. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE UN2 TO BE INGROUND NARROW BEAM INGROUND UPLIGHT TO THE BASE OF CATHEDRAL NARTHEX AND TRANSEPT ENTRANCE PIERS CENTRED IN PIER OFFSET FROM FACE BY APPROX 600-800mm TO THE CENTRE OF THE LUMINAIURE. FINAL OFFSET DISTANCE AND POSITIONING TO BE CONFIRMED ON SITE. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION. FITTING TO BE TILTED A UNIFORM ANGLE INWARD TOWARDS THE PIER

TYPE UN2A TO BE INGROUND NARROW BEAM INGROUND UPLIGHT TO THE BASE OF CATHEDRAL NARTHEX AND TRANSEPT ENTRANCE PORTAL ORNAMENTATION. FITTINGS TO BE ORIENTED TO ALIGN ON A 45 DEGREE TO THE CENTRE OF THE THREE VERTICAL RELIEFE COLUMNS IN THE ARCHITECTURE OFFSET BY 200-300mm FROM THE FACADE. LINEAR SPREAD LENS TO BE ORIENTED TO FOLLOW THE ARCH OF THE COLUMN ACROSS THE ENTRT. FINAL OFFSET DISTANCE AND POSITIONING TO BE CONFIRMED VON SITE. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION.

TYPE LN3 TO BE 450mm MODULES OF LED INGROUND PROFILE WITH INTEGRATED LENS SYSTEM TO GRAZE LIGHT UP THE FACADE OF THE WEST, NORTH AND SOUTH FACADES ABOVE THE ENTRY. FITTING TO BE MOUNTED OFF ADJUSTABLE BRACKETS TO THE INSIDE FACE OF THE SMALL PARAPET WALL ABOVE THE ENTRY. FINAL AIMING TO BE CONFIRMED ON SITE AND LOCKED IN PLACE.

TYPE LN4 TO BE CAST INGROUND 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES SET IN GROUND PLANE / PAVING AROUND THE BASE OF THE CATHEDRAL. CONTRACTOR TO INSTALL INGROUND BLOCKOUT AND THEN INSET MODULAR INGROUND GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1200mm AND 1100mm CENTRE TO CENTRE. POWER TO BE FED THROUGH RING TRENCH AROUND BASE OF CATHEDRAL. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION.

TYPE UN5 TO BE GROUND RECESSED ADJUSTABLE UPLIGHT AT BASE OF EACH PIER. FITTING TO BE OFFSET BY 1000mm FROM THE FACE OF THE COLUMN TO THE CENTRE OF THE FITTING. FINAL SITE CONDITIONS MAY VARY THIS - ALL FITTINGS MUST BE A CONSISTENT OFFSET. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION. FITTINGS TO BE INSTALLED IN CAST IN BLOCKOUT SET IN THE GROUND PLANE WITH DRAINAGE THROUGH TO SUBSOIL

TYPE LN6 TO BE SURFACE MOUNTED 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES MOUNTED TO THE ROOF OF THE CONFESSIONAL MODULES ON CUSTOM STAND OFF BRACKETS (BY CONTRACTOR) CONTRACTOR TO INSTALL BRACKET FIX HOUSING AND LN6 MODULAR GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1200mm AND 1100mm CENTRE TO CENTRE.
POWER ROUTE TO BE FED VIA MIMS CABLING UP FROM THE GROUND PLANE

TYPE DN7 TO BE EXISTING CEILING MOUNTED HERITAGE LANTERN IN THE ENTRY VESTIBULE TO THE WEST NARTHEX. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE DN8 TO BE EXISTING HERITAGE SOFFIT MOUNTED LANTERN FLANKING ENTRIES TO THE WEST, NORTH AND SOUTH DOORS. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE LN9 TO BE SURFACE MOUNTED 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES MOUNTED TO THE AISLE ROOF ON CUSTOM STAND OFF BRACKETS (BY CONTRACTOR) CONTRACTOR TO INSTALL BRACKET FIX HOUSING AND LN9 MODULAR GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1000mm AND CENTRED EITHER SIDE OF THE WINDOW. WHERE ACCESS HATCHES CONLICT THE FINAL LOCATON SHALL BE CONFIRMED ON SITE
POWER ROUTE TO BE EACH END OF THE ROOM ALONG RHE WINDOW SIDE IN A SECURED CONDUIT

TYPE LN10A TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF BRACKET TO INSIDE LIP OF PARAPET TO BOX GUTTER ABOVE CHEVETTE ROOF STRUCTURES IN END TO END CONFIGURATION TO PROVIDE A WASH OF LIGHT UP THE FACADE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR
DRIVERS CO-LOCATED WITH LN10B IN ENCLOSURE ON THE INSIDE OF THE FACADE COLUMNS

TYPE LN10B TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF BRACKET TO BOTTOM EDGE OF CHEVETTE ROOF STRUCTURES IN END TO END CONFIGURATION TO PROVIDE A WASH OF LIGHT UP THE FACADE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR. BRACKET TO BE BRACED ON END TO THE STONE PARAPET EDGE WO NO PENETRATIONS THROUGH GUTTER ARE REQUIRED
DRIVERS CO-LOCATED WITH LN10A IN ENCLOSURE ON THE INSIDE OF THE FACADE COLUMNS

TYPE LN11 TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF CUSTOM BRACKET TO INSIDE LIP OF PARAPET TO BOX GUTTER TO THE MAIN NAVE ROOF BETWEEN THE CRENELLATIONS IN AN END TO END CONFIGURATION TO PROVIDE A WASH ACROSS THE MAIN CATHEDTRAL ROOF STRUCTURE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR
DRIVERS TO BE LOCATED IN WEATHERPROOF ENCLOSURE ON ROOF MOUNTED TO INSIDE PARAPET AT EACH END

TYPE SN12 TO BE ROOF MOUNTED LED SPOTLIGHT WITH OPTICS, GLARE SHIELD AND SNOOT TO MANAGE LIGHT SPILL TO BE AIMED AT MAIN CATHEDRAL SPIRE. FITTINGS TO BE MOUNTED IN VERTICAL CONFIGURATION TO THE INSIDE OF MAIN NAVE ROOF CRENELLATIONS. POWER TO BE FED ALONG INSIDE OF PARAPEP TO DRIVER ENCLOSURE AT END OF ROOF

TYPE LN13 TO BE 600mm LONG LINEAR LED MODULAR LED GRAZER MOUNTED TO PARAPET LEDGE OF BELLTOWERS AND SPIRE AIMING UP AT THE TOWER. FITTINGS INSTALLED IN SECTIONS BETWEEN ARCHITECTURAL FACADE FINS. FINAL LENGTH TO BE SIZED TO ALLOW INSTALLATION AND REMOVAL THROUGH THE ACCESS HATCHES. DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE. POWER TO BE RUN UP THROUGH INTERIOR OF THE BUILDING

TYPE SN14 TO BE ADJUSTABLE LED SPOTLIGHT MOUNTED TO PARAPET LEDGE OF BELLTOWER AND SPIRE AIMING UP AT THE CRENELLATIONS.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE. POWER TO BE RUN UP THROUGH INTERIOR OF THE BUILDING

TYPE LN15 TO BE LINEAR LED MODULAR LED GRAZER MOUNTED TO PARAPET LEDGE OF BELLTOWER AND SPIRE AIMING UP AT THE TOWER SPIRE. FITTINGS INSTALLED IN SECTIONS AROUND ANGLES OF THE ROOF.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE

TYPE SN16 TO BE ADJUSTABLE LED SPOTLIGHT MOUNTED TO PARAPET LEDGE OF SPIRE AIMING UP AT THE WINDOWS.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE SPIRE

TYPE SN17A TO BE ADJUSTABLE POLE MOUNTED SPOTLIGHT WITH VARIABLE OPTICS AND SNOOT. FITTING TO BE MOUNTED VIA CLAMP CONFIGURATION IN VERTICAL ARRAY ARRANGEMENT AIMING AT THE WESTERN, NORTHERN AND SOUTHERN FACADES. FINAL AIMING TO BE COMISSIONED ON SITE AND LOCKED INTO PLACE. FITTING TO INCLUDE GLARE SHIELD, OPTICS AND SNOOT TO LIMIT GLARE

TYPE SN17B TO BE ADJUSTABLE POLE MOUNTED SPOTLIGHT WITH VARIABLE OPTICS AND SNOOT. FITTING TO BE MOUNTED VIA CLAMP CONFIGURATION IN VERTICAL ARRAY ARRANGEMENT AIMING AT THE WESTERN, NORTHERN AND SOUTHERN FACADES. FINAL AIMING TO BE COMISSIONED ON SITE AND LOCKED INTO PLACE. FITTING TO INCLUDE GLARE SHIELD, OPTICS AND SNOOT TO LIMIT GLARE

TYPE PN18 TO BE APPROX 6M TALL TAPERED PIPE POLE MOUNTED TO SUNKEN RAG BOLT ASSEMBLY WITH SPIKE PINACLE. POLE TO BE BLACK OR OTHER COLOUR AS APPROVED BY THE HERITAGE CONSULTANT

TYPE SN19 TO BE SURFACE MOUNTED ADJUSTABLE LED FLOOD LIGHT MOUNTED TO INTERIOR OF SPIRE BEHIND WINDOWS TO BACKLIGHT THESE. FITTINGS TO BE MOUNTED OFF BRACKETS TO THE INTERIOR WALL OF THE BUILDING. FINAL AIMING TO BE CONFIRMED ON SITE.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE SPIRE

TYPE SN20 TO BE SURFACE MOUNTED ADJUSTABLE LED FLOOD LIGHT MOUNTED TO INTERIOR WALL OF BELL TOWER AND SPIRE BEHIND LOUVRE WINDOWS TO BACKLIGHT THESE AREAS AND SPILL LIGHT THROUGH THE GAPS. FITTINGS TO BE MOUNTED OFF BRACKETS TO THE INTERIOR WALL OF THE BUILDING. FINAL AIMING TO BE CONFIRMED ON SITE.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE

TYPE UN21 TO BE SURFACE MOUNTED WINDOW SHAPER LUMINAIRE MOUNTED OF CUSTOM BRACKET FIXED TO THE BOTTOM EDGE OF THE WINDOW STRUCTURE. CABLING TO BE DETERMINED ON SITE - PROPOSED STRATEGY TO BE MIMS (PYRO) DOUBLE INSULATED CABLE RUN ALONG LEDGE TO THEN PENETRATE THE FACADE OR WRAP AROUND TO TRHEN RETICULATE ACROSS THE ROOF

TYPE UN22 TO BE SURFACE MOUNTED WINDOW SHAPER LUMINAIRE MOUNTED OF CUSTOM BRACKET FIXED TO THE BOTTOM EDGE OF THE WINDOW STRUCTURE. CABLING TO BE DETERMINED ON SITE - PROPOSED STRATEGY TO BE MIMS (PYRO) DOUBLE INSULATED CABLE RUN ALONG LEDGE TO THEN PENETRATE THE FACADE OR DROP DOWN TO THE GROUND

3 **ST PATRICK'S CATHEDRAL - LEVEL 02 LIGHTING LAYOUT - AISLE ROOF**
SCALE 1:150

Rev	Description	Date	Rev	Description	Date	Rev.	Description	Date
01	PRELIMINARY ISSUE	21.02.25						
02	DESIGN DEVELOPMENT	24.04.25						

NDYLIGHT
LIGHTING DESIGN
NDYLIGHT LEVEL 1, 60 MILLER STREET, NORTH SYDNEY, NSW 2060, AUS
TELEPHONE +61 2 9928 6800 FACSIMILE +61 2 9955 6900 http://www.ndy.com
A SPECIALIST DIVISION OF NDY Management Pty Ltd ABN 29 003 234 571

Copyright ©NDY Management Pty Limited.

NDY QA SYSTEM
Reason For Issue: COORDINATION
Authorisation: By NB 24.04.25
Verification Of Latest Amendment: By NB 24.04.25

Norman Disney & Young
CONSULTING ENGINEERS
60 MILLER STREET
NORTH SYDNEY NSW 2060
AUSTRALIA
T +61 2 9928 6800
F +61 2 9955 6900
www.ndy.com
NDY Management Pty Ltd
ABN 29 003 234 571

This drawing is diagrammatic and shows the general arrangement of equipment. Any information involving measurement of the works shall be taken from architectural and structural drawings, workshop drawings by others and conditions at the site. The works shall comply with the contract conditions and Statutory Regulations.

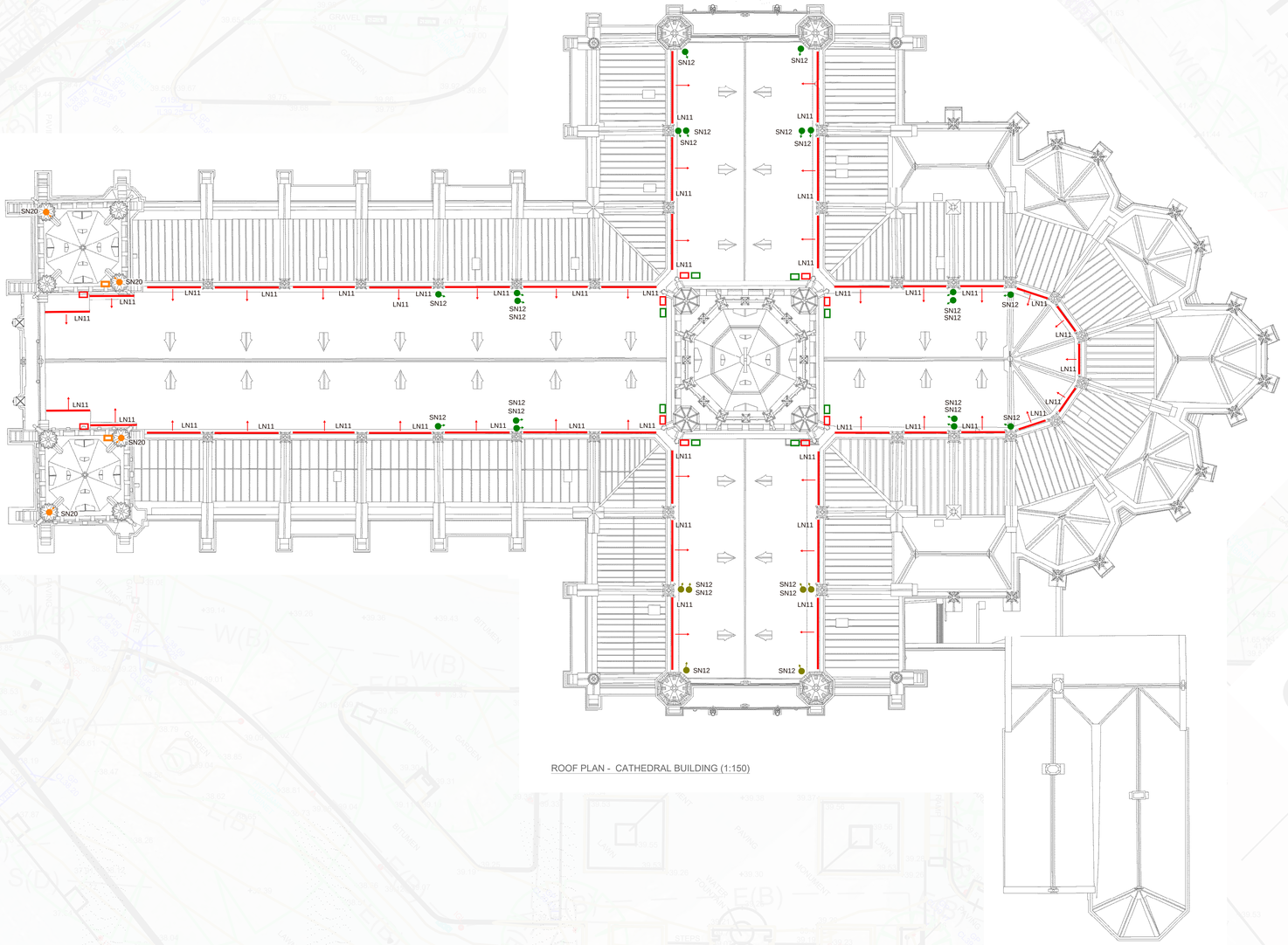
Project: ST PATRICK'S CATHEDRAL
1 CATHEDRAL PLACE

Title: LIGHTING DESIGN SERVICES
FACADE LIGHTING
LEVEL 03

Scale	Date	Drawn	Design	Project No.
As indicated	21.02.25	MJ	NB	m39460-003N

Set Of
Cad No. 2013
Drawing No. N-L03-01
Revision 02

A1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150
When reproduced at correct scale this line measures 150mm


SN12
LN11
SN20
SN12
SN12
LN11
SN12
SN12
LN11
LN11
LN11

DRAWING NOTES

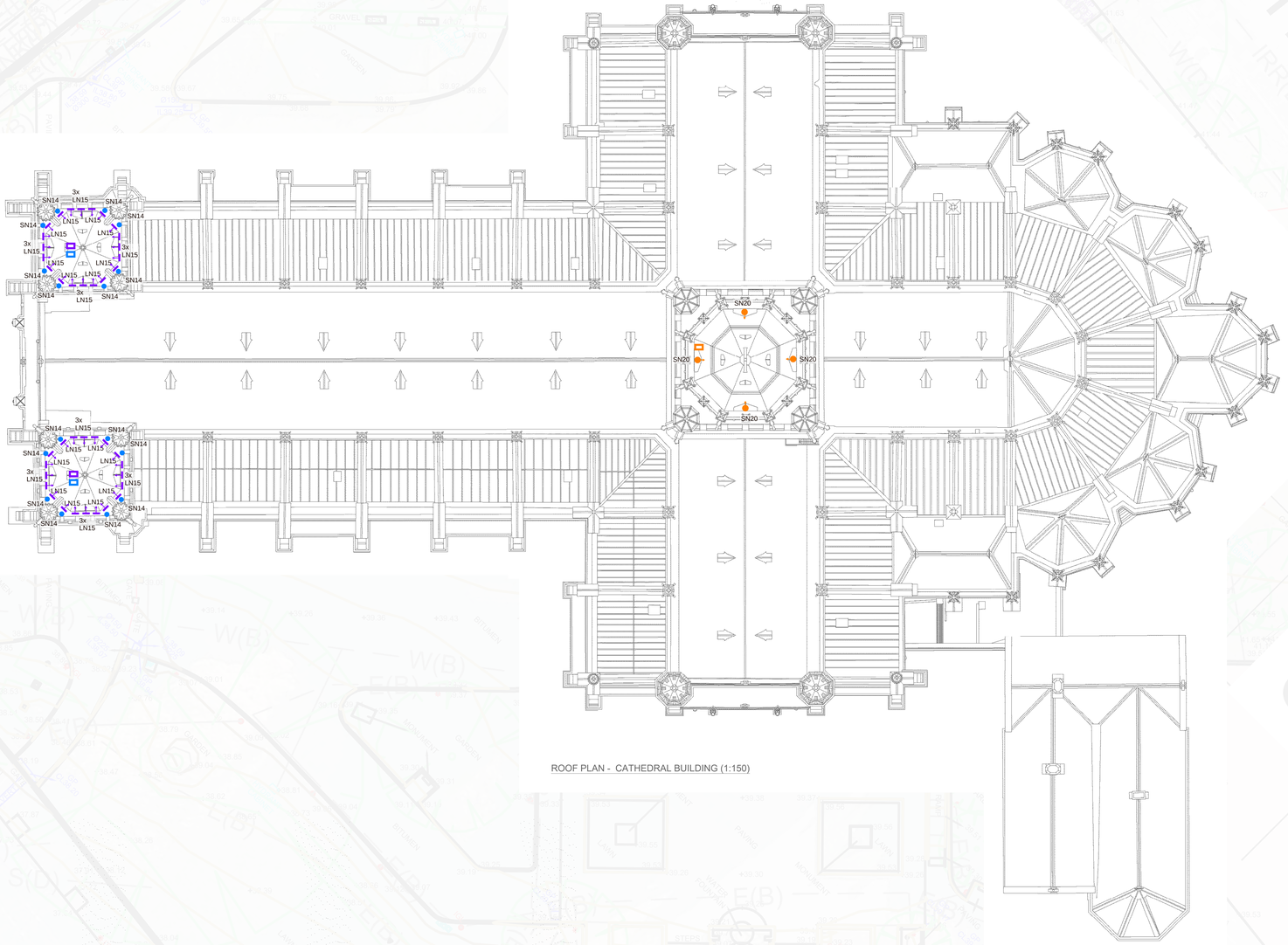
DRAINAGE IN GROUND SLAB THROUGH TO SUB-SOIL FOR ALL INGROUND LUMINAIRES TO BE COORDINATED BY THE ELECTRICAL CONTRACTOR SO THAT LIGHTS ARE NOT AT RISK OF TOTAL SUBMERSION IN WATER. CONTRACTOR TO FOLLOW MANUFACTURERS INSTRUCTIONS FOR INGROUND INSTALLATION INCLUDING USE OF IP68 CABLE GLANDS AT ALL CABLE JOINTS TO PREVENT CAPILLARY SUCTION OF WATER THROUGH CABLE DURING STANDARD HEATING AND COOLING CYCLES OF OPERATION. POWER TO GROUND PLANE LUMINARES TO BE FED THROUGH RING TRENCH AROUND BASE OF CATHEDRAL.

CABLING ON ROOF TO BE RUN IN CONDUIT MOUNTED TO CONCEALED SIDE OF PARAPET WALLS TO EDGE OF BUILDING RETICUATING TO DRIVER LOCATIONS / CABLE MAMAGEMENT POINTS

CABLING MOUNTED TO THE EXTERIOR VISIBLE FACADE FROM DRIVER TO THE END LUMINAIRE TO BE MIMS (PYRO) DOUBLE INSULATED CABLE WITH ANTIQUE COPPER PATINA FOLDED / BEND TO ALIGN WITH THE GEOMETRY OF THE FACADE / BUILDING

FITTINGS NOTED AS HAVING CUSTOM BRACKETS SHALL BE SHOP DRAWN BY THE CONTRACTOR USING APPROVED MATERIALS AND FIXING METHODS APPROVED BY LOVELL CHEN. BRACKETS TO BE POWDER COATED BLACK FINISH WITH RUBBER SEPARATION PADS WHERE THEY SIT ON ROOF SECTIONS. BRACKETS TO USE A SANDWICH FIXING METHOD FASTENED TO STANDING SEAM. NO PENETRATIONS THROUGH THE ROOF SHALL BE ACCEPTED. WHERE FIXED TO STONE, FIXINGS METHOD SHALL BE ADVISED BY LOVELL CHEN BUT ALL TECHNICAL CRITERIA SHALL REMAIN THE CONTRACTORS RESPONSIBILITY.

EXTERNAL LANDSCAPE PITS TO BE SET IN THE GROUND PLANE TO ENABLE RETICULATION OF ALL INGROUND CONDUITS AND CABLING FROM MAIN CABLING HUB



ROOF PLAN - CATHEDRAL BUILDING (1:150)

INSTALLATION NOTES:

TYPE WN1 TO BE EXISTING HERITAGE WALL LANTERN FLANKING ENTRIES TO THE WEST, NORTH AND SOUTH DOORS. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE UN2 TO BE INGROUND NARROW BEAM INGROUND UPLIGHT TO THE BASE OF CATHEDRAL NARTHEX AND TRANSEPT ENTRANCE PIERS CENTRED IN PIER OFFSET FROM FACE BY APPROX 600-800mm TO THE CENTRE OF THE LUMINAUIRE. FINAL OFFSET DISTANCE AND POSITIONING TO BE CONFIRMED ON SITE. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION. FITTING TO BE TILTED A UNIFORM ANGLE INWARD TOWARDS THE PIER

TYPE UN2A TO BE INGROUND NARROW BEAM INGROUND UPLIGHT TO THE BASE OF CATHEDRAL NARTHEX AND TRANSEPT ENTRANCE PORTAL ORNAMENTATION. FITTINGS TO BE ORIENTED TO ALIGN ON A 45 DEGREE TO THE CENTRE OF THE THREE VERTICAL RELIEFE COLUMNS IN THE ARCHITECTURE OFFSET BY 200-300mm FROM THE FACADE. LINEAR SPREAD LENS TO BE ORIENTED TO FOLLOW THE ARCH OF THE COLUMN ACROSS THE ENTRT. FINAL OFFSET DISTANCE AND POSITIONING TO BE CONFIRMED VON SITE. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION.

TYPE LN3 TO BE 450mm MODULES OF LED INGROUND PROFILE WITH INTEGRATED LENS SYSTEM TO GRAZE LIGHT UP THE FACADE OF THE WEST, NORTH AND SOUTH FACADES ABOVE THE ENTRY. FITTING TO BE MOUNTED OFF ADJUSTABLE BRACKETS TO THE INSIDE FACE OF THE SMALL PARAPET WALL ABOVE THE ENTRY. FINAL AIMING TO BE CONFIRMED ON SITE AND LOCKED IN PLACE.

TYPE LN4 TO BE CAST INGROUND 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES SET IN GROUND PLANE / PAVING AROUND THE BASE OF THE CATHEDRAL. CONTRACTOR TO INSTALL INGROUND BLOCKOUT AND THEN INSET MODULAR INGROUND GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1200mm AND 1100mm CENTRE TO CENTRE. POWER TO BE FED THROUGH RING TRENCH AROUND BASE OF CATHEDRAL. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION.

TYPE UN5 TO BE GROUND RECESSED ADJUSTABLE UPLIGHT AT BASE OF EACH PIER. FITTING TO BE OFFSET BY 1000mm FROM THE FACE OF THE COLUMN TO THE CENTRE OF THE FITTING. FINAL SITE CONDITIONS MAY VARY THIS - ALL FITTINGS MUST BE A CONSISTENT OFFSET. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION. FITTINGS TO BE INSTALLED IN CAST IN BLOCKOUT SET IN THE GROUND PLANE WITH DRAINAGE THROUGH TO SUBSOIL

TYPE LN6 TO BE SURFACE MOUNTED 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES MOUNTED TO THE ROOF OF THE CONFESSIONAL MODULES ON CUSTOM STAND OFF BRACKETS (BY CONTRACTOR) CONTRACTOR TO INSTALL BRACKET FIX HOUSING AND LN6 MODULAR GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1200mm AND 1100mm CENTRE TO CENTRE.
POWER ROUTE TO BE FED VIA MIMS CABLING UP FROM THE GROUND PLANE

TYPE DN7 TO BE EXISTING CEILING MOUNTED HERITAGE LANTERN IN THE ENTRY VESTIBULE TO THE WEST NARTHEX. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE DN8 TO BE EXISTING HERITAGE SOFFIT MOUNTED LANTERN FLANKING ENTRIES TO THE WEST, NORTH AND SOUTH DOORS. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE LN9 TO BE SURFACE MOUNTED 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES MOUNTED TO THE AISLE ROOF ON CUSTOM STAND OFF BRACKETS (BY CONTRACTOR) CONTRACTOR TO INSTALL BRACKET FIX HOUSING AND LN9 MODULAR GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1000mm AND CENTRED EITHER SIDE OF THE WINDOW. WHERE ACCESS HATCHES CONLICT THE FINAL LOCATON SHALL BE CONFIRMED ON SITE
POWER ROUTE TO BE EACH END OF THE ROOM ALONG RHE WINDOW SIDE IN A SECURED CONDUIT

TYPE LN10A TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF BRACKET TO INSIDE LIP OF PARAPET TO BOX GUTTER ABOVE CHEVETTE ROOF STRUCTURES IN END TO END CONFIGURATION TO PROVIDE A WASH OF LIGHT UP THE FACADE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR
DRIVERS CO-LOCATED WITH LN10B IN ENCLOSURE ON THE INSIDE OF THE FACADE COLUMNS

TYPE LN10B TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF BRACKET TO BOTTOM EDGE OF CHEVETTE ROOF STRUCTURES IN END TO END CONFIGURATION TO PROVIDE A WASH OF LIGHT UP THE FACADE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR. BRACKET TO BE BRACED ON END TO THE STONE PARAPET EDGE WO NO PENETRATIONS THROUGH GUTTER ARE REQUIRED
DRIVERS CO-LOCATED WITH LN10A IN ENCLOSURE ON THE INSIDE OF THE FACADE COLUMNS

TYPE LN11 TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF CUSTOM BRACKET TO INSIDE LIP OF PARAPET TO BOX GUTTER TO THE MAIN NAVE ROOF BETWEEN THE CRENELLATIONS IN AN END TO END CONFIGURATION TO PROVIDE A WASH ACROSS THE MAIN CATHEDTRAL ROOF STRUCTURE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR
DRIVERS TO BE LOCATED IN WEATHERPROOF ENCLOSURE ON ROOF MOUNTED TO INSIDE PARAPET AT EACH END

TYPE SN12 TO BE ROOF MOUNTED LED SPOTLIGHT WITH OPTICS, GLARE SHIELD AND SNOOT TO MANAGE LIGHT SPILL TO BE AIMED AT MAIN CATHEDRAL SPIRE. FITTINGS TO BE MOUNTED IN VERTICAL CONFIGURATION TO THE INSIDE OF MAIN NAVE ROOF CRENELLATIONS. POWER TO BE FED ALONG INSIDE OF PARAPEP TO DRIVER ENCLOSURE AT END OF ROOF

TYPE LN13 TO BE 600mm LONG LINEAR LED MODULAR LED GRAZER MOUNTED TO PARAPET LEDGE OF BELLTOWERS AND SPIRE AIMING UP AT THE TOWER. FITTINGS INSTALLED IN SECTIONS BETWEEN ARCHITECTURAL FACADE FINS. FINAL LENGTH TO BE SIZED TO ALLOW INSTALLATION AND REMOVAL THROUGH THE ACCESS HATCHES.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE. POWER TO BE RUN UP THROUGH INTERIOR OF THE BUILDING

TYPE SN14 TO BE ADJUSTABLE LED SPOTLIGHT MOUNTED TO PARAPET LEDGE OF BELLTOWER AND SPIRE AIMING UP AT THE CRENELLATIONS.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE. POWER TO BE RUN UP THROUGH INTERIOR OF THE BUILDING

TYPE LN15 TO BE LINEAR LED MODULAR LED GRAZER MOUNTED TO PARAPET LEDGE OF BELLTOWER AND SPIRE AIMING UP AT THE TOWER SPIRE. FITTINGS INSTALLED IN SECTIONS AROUND ANGLES OF THE ROOF.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE

TYPE SN16 TO BE ADJUSTABLE LED SPOTLIGHT MOUNTED TO PARAPET LEDGE OF SPIRE AIMING UP AT THE WINDOWS.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE SPIRE

TYPE SN17A TO BE ADJUSTABLE POLE MOUNTED SPOTLIGHT WITH VARIABLE OPTICS AND SNOOT. FITTING TO BE MOUNTED VIA CLAMP CONFIGURATION IN VERTICAL ARRAY ARRANGEMENT AIMING AT THE WESTERN, NORTHERN AND SOUTHERN FACADES. FINAL AIMING TO BE COMISSIONED ON SITE AND LOCKED INTO PLACE. FITTING TO INCLUDE GLARE SHIELD, OPTICS AND SNOOT TO LIMIT GLARE

TYPE SN17B TO BE ADJUSTABLE POLE MOUNTED SPOTLIGHT WITH VARIABLE OPTICS AND SNOOT. FITTING TO BE MOUNTED VIA CLAMP CONFIGURATION IN VERTICAL ARRAY ARRANGEMENT AIMING AT THE WESTERN, NORTHERN AND SOUTHERN FACADES. FINAL AIMING TO BE COMISSIONED ON SITE AND LOCKED INTO PLACE. FITTING TO INCLUDE GLARE SHIELD, OPTICS AND SNOOT TO LIMIT GLARE

TYPE PN18 TO BE APPROX 6M TALL TAPERED PIPE POLE MOUNTED TO SUNKEN RAG BOLT ASSEMBLY WITH SPIKE PINACLE. POLE TO BE BLACK OR OTHER COLOUR AS APPROVED BY THE HERITAGE CONSULTANT

TYPE SN19 TO BE SURFACE MOUNTED ADJUSTABLE LED FLOOD LIGHT MOUNTED TO INTERIOR OF SPIRE BEHIND WINDOWS TO BACKLIGHT THESE. FITTINGS TO BE MOUNTED OFF BRACKETS TO THE INTERIOR WALL OF THE BUILDING. FINAL AIMING TO BE CONFIRMED ON SITE.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE SPIRE

TYPE SN20 TO BE SURFACE MOUNTED ADJUSTABLE LED FLOOD LIGHT MOUNTED TO INTERIOR WALL OF BELL TOWER AND SPIRE BEHIND LOUVRE WINDOWS TO BACKLIGHT THESE AREAS AND SPILL LIGHT THROUGH THE GAPS. FITTINGS TO BE MOUNTED OFF BRACKETS TO THE INTERIOR WALL OF THE BUILDING. FINAL AIMING TO BE CONFIRMED ON SITE.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE

TYPE UN21 TO BE SURFACE MOUNTED WINDOW SHAPER LUMINAIRE MOUNTED OF CUSTOM BRACKET FIXED TO THE BOTTOM EDGE OF THE WINDOW STRUCTURE.
CABLING TO BE DETERMINED ON SITE - PROPOSED STRATEGY TO BE MIMS (PYRO) DOUBLE INSULATED CABLE RUN ALONG LEDGE TO THEN PENETRATE THE FACADE OR WRAP AROUND TO TRHEN RETICULATE ACROSS THE ROOF

TYPE UN22 TO BE SURFACE MOUNTED WINDOW SHAPER LUMINAIRE MOUNTED OF CUSTOM BRACKET FIXED TO THE BOTTOM EDGE OF THE WINDOW STRUCTURE.
CABLING TO BE DETERMINED ON SITE - PROPOSED STRATEGY TO BE MIMS (PYRO) DOUBLE INSULATED CABLE RUN ALONG LEDGE TO THEN PENETRATE THE FACADE OR DROP DOWN TO THE GROUND

5 ST PATRICK'S CATHEDRAL - LEVEL 05 LIGHTING LAYOUT - MAIN SPIRE

SCALE 1:150

Rev	Description	Date	Rev	Description	Date	Rev	Description	Date
01	PRELIMINARY ISSUE	21.02.25						
02	DESIGN DEVELOPMENT	24.04.25						

NDYLIGHT
LIGHTING DESIGN
NDYLIGHT LEVEL 1, 60 MILLER STREET, NORTH SYDNEY, NSW 2060, AUS
TELEPHONE +61 2 9928 6800 FACSIMILE +61 2 9955 6900 http://www.ndy.com
A SPECIALIST DIVISION OF NDY Management Pty Ltd ABN 29 003 234 571

Copyright ©NDY Management Pty Limited.

NDY QA SYSTEM
Reason For issue
COORDINATION
Authorisation
By NB 24.04.25
Verification Of Latest Amendment
By NB 24.04.25

Norman Disney & Young
CONSULTING ENGINEERS
60 MILLER STREET
NORTH SYDNEY NSW 2060
AUSTRALIA
T +61 2 9928 6800
F +61 2 9955 6900
www.ndy.com
NDY Management Pty Ltd
ABN 29 003 234 571

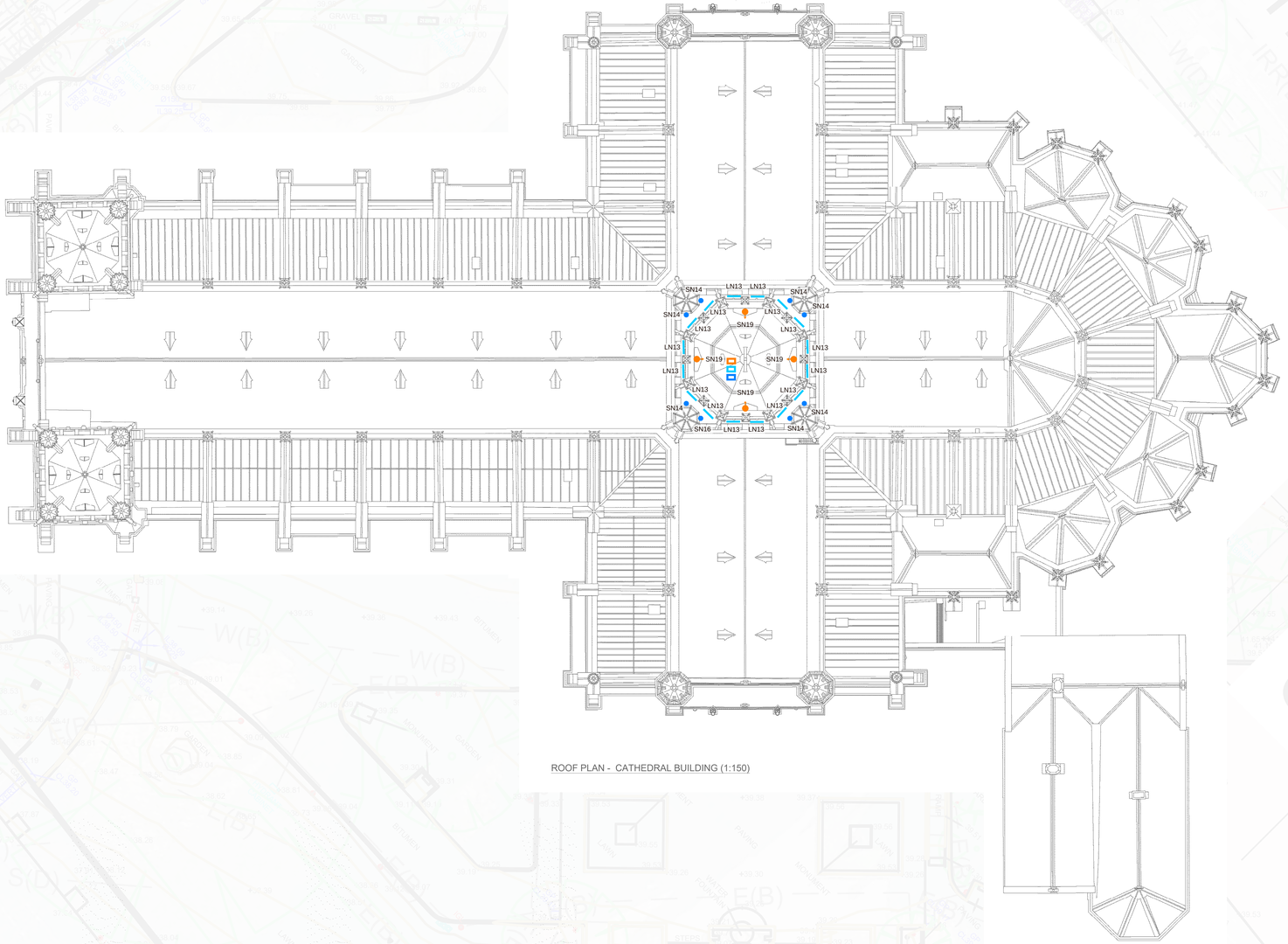
This drawing is diagrammatic and shows the general arrangement of equipment. Any information involving measurement of the works shall be taken from architectural and structural drawings, workshop drawings by others and conditions at the site. The works shall comply with the contract conditions and Statutory Regulations.

Project
ST PATRICK'S CATHEDRAL
1 CATHEDRAL PLACE
Title LIGHTING DESIGN SERVICES
FACADE LIGHTING
LEVEL 05

Scale	Date	Drawn	Design	Project No.
As indicated	21.02.25	MJ	NB	m39460-003N

Set Of
Cad No. 2013
Drawing No. N-L05-01
Revision 02

A1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150
When reproduced at correct scale this line measures 150mm



ROOF PLAN - CATHEDRAL BUILDING (1:150)

DRAWING NOTES

DRAINAGE IN GROUND SLAB THROUGH TO SUB-SOIL FOR ALL INGROUND LUMINAIRES TO BE COORDINATED BY THE ELECTRICAL CONTRACTOR SO THAT LIGHTS ARE NOT AT RISK OF TOTAL SUBMERSION IN WATER. CONTRACTOR TO FOLLOW MANUFACTURERS INSTRUCTIONS FOR INGROUND INSTALLATION INCLUDING USE OF IP68 CABLE GLANDS AT ALL CABLE JOINTS TO PREVENT CAPILLARY SUCTION OF WATER THROUGH CABLE DURING STANDARD HEATING AND COOLING CYCLES OF OPERATION. POWER TO GROUND PLANE LUMINARES TO BE FED THROUGH RING TRENCH AROUND BASE OF CATHEDRAL.

CABLING ON ROOF TO BE RUN IN CONDUIT MOUNTED TO CONCEALED SIDE OF PARAPET WALLS TO EDGE OF BUILDING RETICUATING TO DRIVER LOCATIONS / CABLE MAMAGEMENT POINTS

CABLING MOUNTED TO THE EXTERIOR VISIBLE FACADE FROM DRIVER TO THE END LUMINAIRE TO BE MIMS (PYRO) DOUBLE INSULATED CABLE WITH ANTIQUE COPPER PATINA FOLDED / BEND TO ALIGN WITH THE GEOMETRY OF THE FACADE / BUILDING

FITTINGS NOTED AS HAVING CUSTOM BRACKETS SHALL BE SHOP DRAWN BY THE CONTRACTOR USING APPROVED MATERIALS AND FIXING METHODS APPROVED BY LOVELL CHEN. BRACKETS TO BE POWDER COATED BLACK FINISH WITH RUBBER SEPARATION PADS WHERE THEY SIT ON ROOF SECTIONS. BRACKETS TO USE A SANDWICH FIXING METHOD FASTENED TO STANDING SEAM. NO PENETRATIONS THROUGH THE ROOF SHALL BE ACCEPTED. WHERE FIXED TO STONE, FIXINGS METHOD SHALL BE ADVISED BY LOVELL CHEN BUT ALL TECHNICAL CRITERIA SHALL REMAIN THE CONTRACTORS RESPONSIBILITY.

EXTERNAL LANDSCAPE PITS TO BE SET IN THE GROUND PLANE TO ENABLE RETICULATION OF ALL INGROUND CONDUITS AND CABLING FROM MAIN CABLING HUB

INSTALLATION NOTES:

TYPE WN1 TO BE EXISTING HERITAGE WALL LANTERN FLANKING ENTRIES TO THE WEST, NORTH AND SOUTH DOORS. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE UN2 TO BE INGROUND NARROW BEAM INGROUND UPLIGHT TO THE BASE OF CATHEDRAL NARTHEX AND TRANSEPT ENTRANCE PIERS CENTRED IN PIER OFFSET FROM FACE BY APPROX 600-800mm TO THE CENTRE OF THE LUMINAIRE. FINAL OFFSET DISTANCE AND POSITIONING TO BE CONFIRMED ON SITE. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION. FITTING TO BE TILTED A UNIFORM ANGLE INWARD TOWARDS THE PIER

TYPE UN2A TO BE INGROUND NARROW BEAM INGROUND UPLIGHT TO THE BASE OF CATHEDRAL NARTHEX AND TRANSEPT ENTRANCE PORTAL ORNAMENTATION. FITTINGS TO BE ORIENTED TO ALIGN ON A 45 DEGREE TO THE CENTRE OF THE THREE VERTICAL RELIEFE COLUMNS IN THE ARCHITECTURE OFFSET BY 200-300mm FROM THE FACADE. LINEAR SPREAD LENS TO BE ORIENTED TO FOLLOW THE ARCH OF THE COLUMN ACROSS THE ENTRT. FINAL OFFSET DISTANCE AND POSITIONING TO BE CONFIRMED VON SITE. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION.

TYPE LN3 TO BE 450mm MODULES OF LED INGROUND PROFILE WITH INTEGRATED LENS SYSTEM TO GRAZE LIGHT UP THE FACADE OF THE WEST, NORTH AND SOUTH FACADES ABOVE THE ENTRY. FITTING TO BE MOUNTED OFF ADJUSTABLE BRACKETS TO THE INSIDE FACE OF THE SMALL PARAPET WALL ABOVE THE ENTRY. FINAL AIMING TO BE CONFIRMED ON SITE AND LOCKED IN PLACE.

TYPE LN4 TO BE CAST INGROUND 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES SET IN GROUND PLANE / PAVING AROUND THE BASE OF THE CATHEDRAL. CONTRACTOR TO INSTALL INGROUND BLOCKOUT AND THEN INSET MODULAR INGROUND GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1200mm AND 1100mm CENTRE TO CENTRE. POWER TO BE FED THROUGH RING TRENCH AROUND BASE OF CATHEDRAL. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION.

TYPE UN5 TO BE GROUND RECESSED ADJUSTABLE UPLIGHT AT BASE OF EACH PIER. FITTING TO BE OFFSET BY 1000mm FROM THE FACE OF THE COLUMN TO THE CENTRE OF THE FITTING. FINAL SITE CONDITIONS MAY VARY THIS - ALL FITTINGS MUST BE A CONSISTENT OFFSET. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION. FITTINGS TO BE INSTALLED IN CAST IN BLOCKOUT SET IN THE GROUND PLANE WITH DRAINAGE THROUGH TO SUBSOIL

TYPE LN6 TO BE SURFACE MOUNTED 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES MOUNTED TO THE ROOF OF THE CONFESSIONAL MODULES ON CUSTOM STAND OFF BRACKETS (BY CONTRACTOR) CONTRACTOR TO INSTALL BRACKET FIX HOUSING AND LN6 MODULAR GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1200mm AND 1100mm CENTRE TO CENTRE.
POWER ROUTE TO BE FED VIA MIMS CABLING UP FROM THE GROUND PLANE

TYPE DN7 TO BE EXISTING CEILING MOUNTED HERITAGE LANTERN IN THE ENTRY VESTIBULE TO THE WEST NARTHEX. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE DN8 TO BE EXISTING HERITAGE SOFFIT MOUNTED LANTERN FLANKING ENTRIES TO THE WEST, NORTH AND SOUTH DOORS. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE LN9 TO BE SURFACE MOUNTED 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES MOUNTED TO THE AISLE ROOF ON CUSTOM STAND OFF BRACKETS (BY CONTRACTOR) CONTRACTOR TO INSTALL BRACKET FIX HOUSING AND LN9 MODULAR GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1000mm AND CENTRED EITHER SIDE OF THE WINDOW. WHERE ACCESS HATCHES CONLICT THE FINAL LOCATON SHALL BE CONFIRMED ON SITE
POWER ROUTE TO BE EACH END OF THE ROOM ALONG RHE WINDOW SIDE IN A SECURED CONDUIT

TYPE LN10A TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF BRACKET TO INSIDE LIP OF PARAPET TO BOX GUTTER ABOVE CHEVETE ROOF STRUCTURES IN END TO END CONFIGURATION TO PROVIDE A WASH OF LIGHT UP THE FACADE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR
DRIVERS CO-LOCATED WITH LN10B IN ENCLOSURE ON THE INSIDE OF THE FACADE COLUMNS

TYPE LN10B TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF BRACKET TO BOTTOM EDGE OF CHEVETTE ROOF STRUCTURES IN END TO END CONFIGURATION TO PROVIDE A WASH OF LIGHT UP THE FACADE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR. BRACKET TO BE BRACED ON END TO THE STONE PARAPET EDGE WO NO PENETRATIONS THROUGH GUTTER ARE REQUIRED
DRIVERS CO-LOCATED WITH LN10A IN ENCLOSURE ON THE INSIDE OF THE FACADE COLUMNS

TYPE LN11 TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF CUSTOM BRACKET TO INSIDE LIP OF PARAPET TO BOX GUTTER TO THE MAIN NAVE ROOF BETWEEN THE CRENELLATIONS IN AN END TO END CONFIGURATION TO PROVIDE A WASH ACROSS THE MAIN CATHEDTRAL ROOF STRUCTURE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR
DRIVERS TO BE LOCATED IN WEATHERPROOF ENCLOSURE ON ROOF MOUNTED TO INSIDE PARAPET AT EACH END

TYPE SN12 TO BE ROOF MOUNTED LED SPOTLIGHT WITH OPTICS, GLARE SHIELD AND SNOOT TO MANAGE LIGHT SPILL TO BE AIMED AT MAIN CATHEDRAL SPIRE. FITTINGS TO BE MOUNTED IN VERTICAL CONFIGURATION TO THE INSIDE OF MAIN NAVE ROOF CRENELLATIONS. POWER TO BE FED ALONG INSIDE OF PARAPEP TO DRIVER ENCLOSURE AT END OF ROOF

TYPE LN13 TO BE 600mm LONG LINEAR LED MODULAR LED GRAZER MOUNTED TO PARAPET LEDGE OF BELLTOWERS AND SPIRE AIMING UP AT THE TOWER: FITTINGS INSTALLED IN SECTIONS BETWEEN ARCHITECTURAL FACADE FINS. FINAL LENGTH TO BE SIZED TO ALLOW INSTALLATION AND REMOVAL THROUGH THE ACCESS HATCHES.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE. POWER TO BE RUN UP THROUGH INTERIOR OF THE BUILDING

TYPE SN14 TO BE ADJUSTABLE LED SPOTLIGHT MOUNTED TO PARAPET LEDGE OF BELLTOWER AND SPIRE AIMING UP AT THE CRENELLATIONS.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE. POWER TO BE RUN UP THROUGH INTERIOR OF THE BUILDING

TYPE LN15 TO BE LINEAR LED MODULAR LED GRAZER MOUNTED TO PARAPET LEDGE OF BELLTOWER AND SPIRE AIMING UP AT THE TOWER SPIRE. FITTINGS INSTALLED IN SECTIONS AROUND ANGLES OF THE ROOF.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE

TYPE SN16 TO BE ADJUSTABLE LED SPOTLIGHT MOUNTED TO PARAPET LEDGE OF SPIRE AIMING UP AT THE WINDOWS.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE SPIRE

TYPE SN17A TO BE ADJUSTABLE POLE MOUNTED SPOTLIGHT WITH VARIABLE OPTICS AND SNOOT. FITTING TO BE MOUNTED VIA CLAMP CONFIGURATION IN VERTICAL ARRAY ARRANGEMENT AIMING AT THE WESTERN, NORTHERN AND SOUTHERN FACADES. FINAL AIMING TO BE COMISSIONED ON SITE AND LOCKED INTO PLACE. FITTING TO INCLUDE GLARE SHIELD, OPTICS AND SNOOT TO LIMIT GLARE

TYPE SN17B TO BE ADJUSTABLE POLE MOUNTED SPOTLIGHT WITH VARIABLE OPTICS AND SNOOT. FITTING TO BE MOUNTED VIA CLAMP CONFIGURATION IN VERTICAL ARRAY ARRANGEMENT AIMING AT THE WESTERN, NORTHERN AND SOUTHERN FACADES. FINAL AIMING TO BE COMISSIONED ON SITE AND LOCKED INTO PLACE. FITTING TO INCLUDE GLARE SHIELD, OPTICS AND SNOOT TO LIMIT GLARE

TYPE PN18 TO BE APPROX 6M TALL TAPERED PIPE POLE MOUNTED TO SUNKEN RAG BOLT ASSEMBLY WITH SPIKE PINACLE. POLE TO BE BLACK OR OTHER COLOUR AS APPROVED BY THE HERITAGE CONSULTANT

TYPE SN19 TO BE SURFACE MOUNTED ADJUSTABLE LED FLOOD LIGHT MOUNTED TO INTERIOR OF SPIRE BEHIND WINDOWS TO BACKLIGHT THESE. FITTINGS TO BE MOUNTED OFF BRACKETS TO THE INTERIOR WALL OF THE BUILDING. FINAL AIMING TO BE CONFIRMED ON SITE.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE SPIRE

TYPE SN20 TO BE SURFACE MOUNTED ADJUSTABLE LED FLOOD LIGHT MOUNTED TO INTERIOR WALL OF BELL TOWER AND SPIRE BEHIND LOUVRE WINDOWS TO BACKLIGHT THESE AREAS AND SPILL LIGHT THROUGH THE GAPS. FITTINGS TO BE MOUNTED OFF BRACKETS TO THE INTERIOR WALL OF THE BUILDING. FINAL AIMING TO BE CONFIRMED ON SITE.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE

TYPE UN21 TO BE SURFACE MOUNTED WINDOW SHAPER LUMINAIRE MOUNTED OF CUSTOM BRACKET FIXED TO THE BOTTOM EDGE OF THE WINDOW STRUCTURE. CABLING TO BE DETERMINED ON SITE - PROPOSED STRATEGY TO BE MIMS (PYRO) DOUBLE INSULATED CABLE RUN ALONG LEDGE TO THEN PENETRATE THE FACADE OR WRAP AROUND TO TRHEN RETICULATE ACROSS THE ROOF

TYPE UN22 TO BE SURFACE MOUNTED WINDOW SHAPER LUMINAIRE MOUNTED OF CUSTOM BRACKET FIXED TO THE BOTTOM EDGE OF THE WINDOW STRUCTURE. CABLING TO BE DETERMINED ON SITE - PROPOSED STRATEGY TO BE MIMS (PYRO) DOUBLE INSULATED CABLE RUN ALONG LEDGE TO THEN PENETRATE THE FACADE OR DROP DOWN TO THE GROUND

6 **ST PATRICK'S CATHEDRAL - LEVEL 06 LIGHTING LAYOUT - MAIN SPIRE AND FRONT TOWERS**
SCALE 1:150

Rev	Description	Date	Rev	Description	Date	Rev	Description	Date
01	PRELIMINARY ISSUE	21.02.25						
02	DESIGN DEVELOPMENT	24.04.25						

NDYLIGHT
LIGHTING DESIGN
NDYLIGHT LEVEL 1, 60 MILLER STREET, NORTH SYDNEY, NSW 2060, AUS
TELEPHONE +61 2 9928 6800 FACSIMILE +61 2 9955 6900 http://www.ndy.com
A SPECIALIST DIVISION OF NDY Management Pty Ltd ABN 29 003 234 571
Copyright ©NDY Management Pty Limited.

NDY QA SYSTEM
Reason For issue
COORDINATION
Authorisation
NB 24.04.25
By
Verification Of Latest Amendment
NB 24.04.25
By

Norman Disney & Young
CONSULTING ENGINEERS
60 MILLER STREET
NORTH SYDNEY NSW 2060
AUSTRALIA
T +61 2 9928 6800
F +61 2 9955 6900
www.ndy.com
NDY Management Pty Ltd
ABN 29 003 234 571
This drawing is diagrammatic and shows the general arrangement of equipment. Any information involving measurement of the works shall be taken from architectural and structural drawings, workshop drawings by others and conditions at the site. The works shall comply with the contract conditions and Statutory Regulations.

Project
ST PATRICK'S CATHEDRAL
1 CATHEDRAL PLACE
Title LIGHTING DESIGN SERVICES
FACADE LIGHTING
LEVEL 06

Scale	Date	Drawn	Design	Project No.
As indicated	21.02.25	MJ	NB	m39460-003N

Set Of
Cad No.
2013
Drawing No.
N-L06-01
Revision
02

A1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150
When reproduced at correct scale this line measures 150mm

DRAWING NOTES

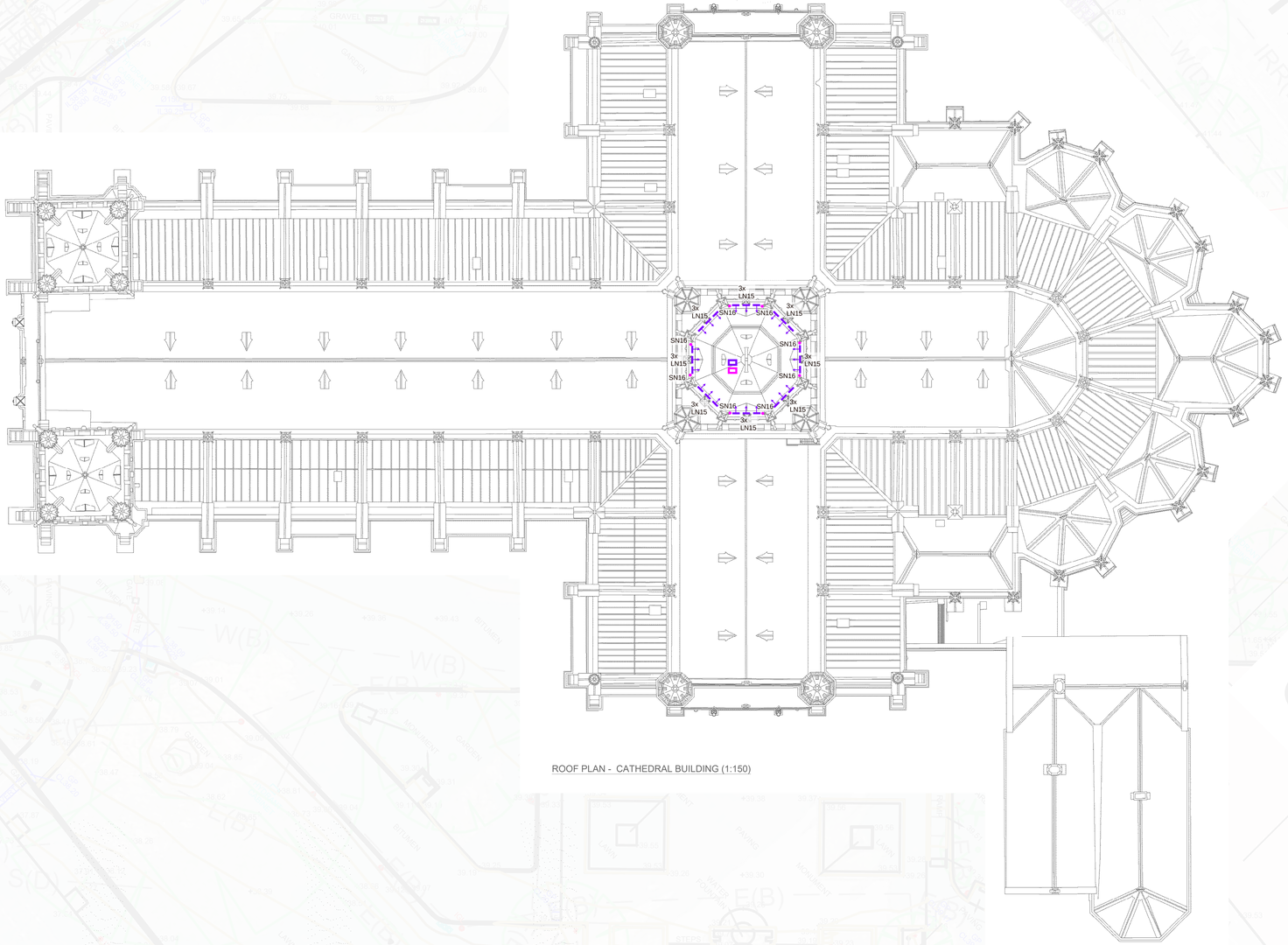
DRAINAGE IN GROUND SLAB THROUGH TO SUB-SOIL FOR ALL INGROUND LUMINAIRES TO BE COORDINATED BY THE ELECTRICAL CONTRACTOR SO THAT LIGHTS ARE NOT AT RISK OF TOTAL SUBMERSION IN WATER. CONTRACTOR TO FOLLOW MANUFACTURERS INSTRUCTIONS FOR INGROUND INSTALLATION INCLUDING USE OF IP68 CABLE GLANDS AT ALL CABLE JOINTS TO PREVENT CAPILLARY SUCTION OF WATER THROUGH CABLE DURING STANDARD HEATING AND COOLING CYCLES OF OPERATION. POWER TO GROUND PLANE LUMINARES TO BE FED THROUGH RING TRENCH AROUND BASE OF CATHEDRAL.

CABLING ON ROOF TO BE RUN IN CONDUIT MOUNTED TO CONCEALED SIDE OF PARAPET WALLS TO EDGE OF BUILDING RETICUATING TO DRIVER LOCATIONS / CABLE MAMAGEMENT POINTS

CABLING MOUNTED TO THE EXTERIOR VISIBLE FACADE FROM DRIVER TO THE END LUMINAIRE TO BE MIMS (PYRO) DOUBLE INSULATED CABLE WITH ANTIQUE COPPER PATINA FOLDED / BEND TO ALIGN WITH THE GEOMETRY OF THE FACADE / BUILDING

FITTINGS NOTED AS HAVING CUSTOM BRACKETS SHALL BE SHOP DRAWN BY THE CONTRACTOR USING APPROVED MATERIALS AND FIXING METHODS APPROVED BY LOVELL CHEN. BRACKETS TO BE POWDER COATED BLACK FINISH WITH RUBBER SEPARATION PADS WHERE THEY SIT ON ROOF SECTIONS. BRACKETS TO USE A SANDWICH FIXING METHOD FASTENED TO STANDING SEAM. NO PENETRATIONS THROUGH THE ROOF SHALL BE ACCEPTED. WHERE FIXED TO STONE, FIXINGS METHOD SHALL BE ADVISED BY LOVELL CHEN BUT ALL TECHNICAL CRITERIA SHALL REMAIN THE CONTRACTORS RESPONSIBILITY.

EXTERNAL LANDSCAPE PITS TO BE SET IN THE GROUND PLANE TO ENABLE RETICULATION OF ALL INGROUND CONDUITS AND CABLING FROM MAIN CABLING HUB



ROOF PLAN - CATHEDRAL BUILDING (1:150)

INSTALLATION NOTES:

TYPE WN1 TO BE EXISTING HERITAGE WALL LANTERN FLANKING ENTRIES TO THE WEST, NORTH AND SOUTH DOORS. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE UN2 TO BE INGROUND NARROW BEAM INGROUND UPLIGHT TO THE BASE OF CATHEDRAL NARTHEX AND TRANSEPT ENTRANCE PIERS CENTRED IN PIER OFFSET FROM FACE BY APPROX 600-800mm TO THE CENTRE OF THE LUMINAUIRE. FINAL OFFSET DISTANCE AND POSITIONING TO BE CONFIRMED ON SITE. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION. FITTING TO BE TILTED A UNIFORM ANGLE INWARD TOWARDS THE PIER

TYPE UN2A TO BE INGROUND NARROW BEAM INGROUND UPLIGHT TO THE BASE OF CATHEDRAL NARTHEX AND TRANSEPT ENTRANCE PORTAL ORNAMENTATION. FITTINGS TO BE ORIENTED TO ALIGN ON A 45 DEGREE TO THE CENTRE OF THE THREE VERTICAL RELIEFE COLUMNS IN THE ARCHITECTURE OFFSET BY 200-300mm FROM THE FACADE. LINEAR SPREAD LENS TO BE ORIENTED TO FOLLOW THE ARCH OF THE COLUMN ACROSS THE ENTRT. FINAL OFFSET DISTANCE AND POSITIONING TO BE CONFIRMED VON SITE. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION.

TYPE LN3 TO BE 450mm MODULES OF LED INGROUND PROFILE WITH INTEGRATED LENS SYSTEM TO GRAZE LIGHT UP THE FACADE OF THE WEST, NORTH AND SOUTH FACADES ABOVE THE ENTRY. FITTING TO BE MOUNTED OFF ADJUSTABLE BRACKETS TO THE INSIDE FACE OF THE SMALL PARAPET WALL ABOVE THE ENTRY. FINAL AIMING TO BE CONFIRMD ON SITE AND LOCKED IN PLACE.

TYPE LN4 TO BE CAST INGROUND 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES SET IN GROUND PLANE / PAVING AROUND THE BASE OF THE CATHEDRAL. CONTRACTOR TO INSTALL INGROUND BLOCKOUT AND THEN INSET MODULAR INGROUND GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1200mm AND 1100mm CENTRE TO CENTRE. POWER TO BE FED THROUGH RING TRENCH ARROUND BASE OF CATHEDRAL. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION.

TYPE UN5 TO BE GROUND RECESSED ADJUSTABLE UPLIGHT AT BASE OF EACH PIER. FITTING TO BE OFFSET BY 1000mm FROM THE FACE OF THE COLUMN TO THE CENTRE OF THE FITTING. FINAL SITE CONDITIONS MAY VARY THIS - ALL FITTINGS MUST BE A CONSISTENT OFFSET. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION. FITTINGS TO BE INSTALLED IN CAST IN BLOCKOUT SET IN THE GROUND PLANE WITH DRAINAGE THROUGH TO SUBSOIL

TYPE LN6 TO BE SURFACE MOUNTED 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES MOUNTED TO THE ROOF OF THE CONFESSIONAL MODULES ON CUSTOM STAND OFF BRACKETS (BY CONTRACTOR) CONTRACTOR TO INSTALL BRACKET FIX HOUSING AND LN6 MODULAR GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1200mm AND 1100mm CENTRE TO CENTRE.
POWER ROUTE TO BE FED VIA MIMS CABLING UP FROM THE GROUND PLANE

TYPE DN7 TO BE EXISTING CEILING MOUNTED HERITAGE LANTERN IN THE ENTRY VESTIBULE TO THE WEST NARTHEX. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE DN8 TO BE EXISTING HERITAGE SOFFIT MOUNTED LANTERN FLANKING ENTRIES TO THE WEST, NORTH AND SOUTH DOORS. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE LN9 TO BE SURFACE MOUNTED 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES MOUNTED TO THE AISLE ROOF ON CUSTOM STAND OFF BRACKETS (BY CONTRACTOR) CONTRACTOR TO INSTALL BRACKET FIX HOUSING AND LN9 MODULAR GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1000mm AND CENTRED EITHER SIDE OF THE WINDOW. WHERE ACCESS HATCHES CONLICT THE FINAL LOCATON SHALL BE CONFIRMED ON SITE
POWER ROUTE TO BE EACH END OF THE ROOM ALONG RHE WINDOW SIDE IN A SECURED CONDUIT

TYPE LN10A TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF BRACKET TO INSIDE LIP OF PARAPET TO BOX GUTTER ABOVE CHEVETTE ROOF STRUCTURES IN END TO END CONFIGURATION TO PROVIDE A WASH OF LIGHT UP THE FACADE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR
DRIVERS CO-LOCATED WITH LN10B IN ENCLOSURE ON THE INSIDE OF THE FACADE COLUMNS

TYPE LN10B TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF BRACKET TO BOTTOM EDGE OF CHEVETTE ROOF STRUCTURES IN END TO END CONFIGURATION TO PROVIDE A WASH OF LIGHT UP THE FACADE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR. BRACKET TO BE BRACED ON END TO THE STONE PARAPET EDGE WO NO PENETRATIONS THROUGH GUTTER ARE REQUIRED
DRIVERS CO-LOCATED WITH LN10A IN ENCLOSURE ON THE INSIDE OF THE FACADE COLUMNS

TYPE LN11 TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF CUSTOM BRACKET TO INSIDE LIP OF PARAPET TO BOX GUTTER TO THE MAIN NAVE ROOF BETWEEN THE CRENELLATIONS IN AN END TO END CONFIGURATION TO PROVIDE A WASH ACROSS THE MAIN CATHEDTRAL ROOF STRUCTURE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR
DRIVERS TO BE LOCATED IN WEATHERPROOF ENCLOSURE ON ROOF MOUNTED TO INSIDE PARAPET AT EACH END

TYPE SN12 TO BE ROOF MOUNTED LED SPOTLIGHT WITH OPTICS, GLARE SHIELD AND SNOOT TO MANAGE LIGHT SPILL TO BE AIMED AT MAIN CATHEDRAL SPIRE. FITTINGS TO BE MOUNTED IN VERTICAL CONFIGURATION TO THE INSIDE OF MAIN NAVE ROOF CRENELLATIONS. POWER TO BE FED ALONG INSIDE OF PARAPEP TO DRIVER ENCLOSURE AT END OF ROOF

TYPE LN13 TO BE 600mm LONG LINEAR LED MODULAR LED GRAZER MOUNTED TO PARAPET LEDGE OF BELLTOWERS AND SPIRE AIMING UP AT THE TOWER. FITTINGS INSTALLED IN SECTIONS BETWEEN ARCHITECTURAL FACADE FINS. FINAL LENGTH TO BE SIZED TO ALLOW INSTALATION AND REMOVAL THROUGH THE ACCESS HATCHES.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE. POWER TO BE RUN UP THROUGH INTERIOR OF THE BUILDING

TYPE SN14 TO BE ADJUSTABLE LED SPOTLIGHT MOUNTED TO PARAPET LEDGE OF BELLTOWER AND SPIRE AIMING UP AT THE CRENELLATIONS.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE. POWER TO BE RUN UP THROUGH INTERIOR OF THE BUILDING

TYPE LN15 TO BE LINEAR LED MODULAR LED GRAZER MOUNTED TO PARAPET LEDGE OF BELLTOWER AND SPIRE AIMING UP AT THE TOWER SPIRE. FITTINGS INSTALLED IN SECTIONS AROUND ANGLES OF THE ROOF.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE

TYPE SN16 TO BE ADJUSTABLE LED SPOTLIGHT MOUNTED TO PARAPET LEDGE OF SPIRE AIMING UP AT THE WINDOWS.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE SPIRE

TYPE SN17A TO BE ADJUSTABLE POLE MOUNTED SPOTLIGHT WITH VARIABLE OPTICS AND SNOOT. FITTING TO BE MOUNTED VIA CLAMP CONFIGURATION IN VERTICAL ARRAY ARRANGEMENT AIMING AT THE WESTERN, NORTHERN AND SOUTHERN FACADES. FINAL AIMING TO BE COMISSIONED ON SITE AND LOCKED INTO PLACE. FITTING TO INCLUDE GLARE SHIELD, OPTICS AND SNOOT TO LIMIT GLARE

TYPE SN17B TO BE ADJUSTABLE POLE MOUNTED SPOTLIGHT WITH VARIABLE OPTICS AND SNOOT. FITTING TO BE MOUNTED VIA CLAMP CONFIGURATION IN VERTICAL ARRAY ARRANGEMENT AIMING AT THE WESTERN, NORTHERN AND SOUTHERN FACADES. FINAL AIMING TO BE COMISSIONED ON SITE AND LOCKED INTO PLACE. FITTING TO INCLUDE GLARE SHIELD, OPTICS AND SNOOT TO LIMIT GLARE

TYPE PN18 TO BE APPROX 6M TALL TAPERED PIPE POLE MOUNTED TO SUNKEN RAG BOLT ASSEMBLY WITH SPIKE PINACLE. POLE TO BE BLACK OR OTHER COLOUR AS APPROVED BY THE HERITAGE CONSULTANT

TYPE SN19 TO BE SURFACE MOUNTED ADJUSTABLE LED FLOOD LIGHT MOUNTED TO INTERIOR OF SPIRE BEHIND WINDOWS TO BACKLIGHT THESE. FITTINGS TO BE MOUNTED OFF BRACKETS TO THE INTERIOR WALL OF THE BUILDING. FINAL AIMING TO BE CONFIRMED ON SITE.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE SPIRE

TYPE SN20 TO BE SURFACE MOUNTED ADJUSTABLE LED FLOOD LIGHT MOUNTED TO INTERIOR WALL OF BELL TOWER AND SPIRE BEHIND LOUVRE WINDOWS TO BACKLIGHT THESE AREAS AND SPILL LIGHT THROUGH THE GAPS. FITTINGS TO BE MOUNTED OFF BRACKETS TO THE INTERIOR WALL OF THE BUILDING. FINAL AIMING TO BE CONFIRMED ON SITE.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE

TYPE UN21 TO BE SURFACE MOUNTED WINDOW SHAPER LUMINAIRE MOUNTED OF CUSTOM BRACKET FIXED TO THE BOTTOM EDGE OF THE WINDOW STRUCTURE. CABLING TO BE DETERMINED ON SITE - PROPOSED STRATEGY TO BE MIMS (PYRO) DOUBLE INSULATED CABLE RUN ALONG LEDGE TO THEN PENETRATE THE FACADE OR WRAP AROUND TO TRHEN RETICULATE ACROSS THE ROOF

TYPE UN22 TO BE SURFACE MOUNTED WINDOW SHAPER LUMINAIRE MOUNTED OF CUSTOM BRACKET FIXED TO THE BOTTOM EDGE OF THE WINDOW STRUCTURE. CABLING TO BE DETERMINED ON SITE - PROPOSED STRATEGY TO BE MIMS (PYRO) DOUBLE INSULATED CABLE RUN ALONG LEDGE TO THEN PENETRATE THE FACADE OR DROP DOWN TO THE GROUND

7 ST PATRICK'S CATHEDRAL - LEVEL 07 LIGHTING LAYOUT - MAIN SPIRE
SCALE 1:150

Rev	Description	Date	Rev	Description	Date	Rev	Description	Date
01	PRELIMINARY ISSUE	21.02.25						
02	DESIGN DEVELOPMENT	24.04.25						

NDYLIGHT
LIGHTING DESIGN
NDYLIGHT LEVEL 1, 60 MILLER STREET, NORTH SYDNEY, NSW 2060, AUS
TELEPHONE +61 2 9928 6800 FACSIMILE +61 2 9955 6900 http://www.ndy.com
A SPECIALIST DIVISION OF NDY Management Pty Ltd ABN 29 003 234 571

Copyright ©NDY Management Pty Limited.

NDY QA SYSTEM
Reason For issue
COORDINATION
Authorisation
By NB 24.04.25
Verification Of Latest Amendment
By NB 24.04.25

Norman Disney & Young
CONSULTING ENGINEERS
60 MILLER STREET
NORTH SYDNEY NSW 2060
AUSTRALIA
T +61 2 9928 6800
F +61 2 9955 6900
www.ndy.com
NDY Management Pty Ltd
ABN 29 003 234 571

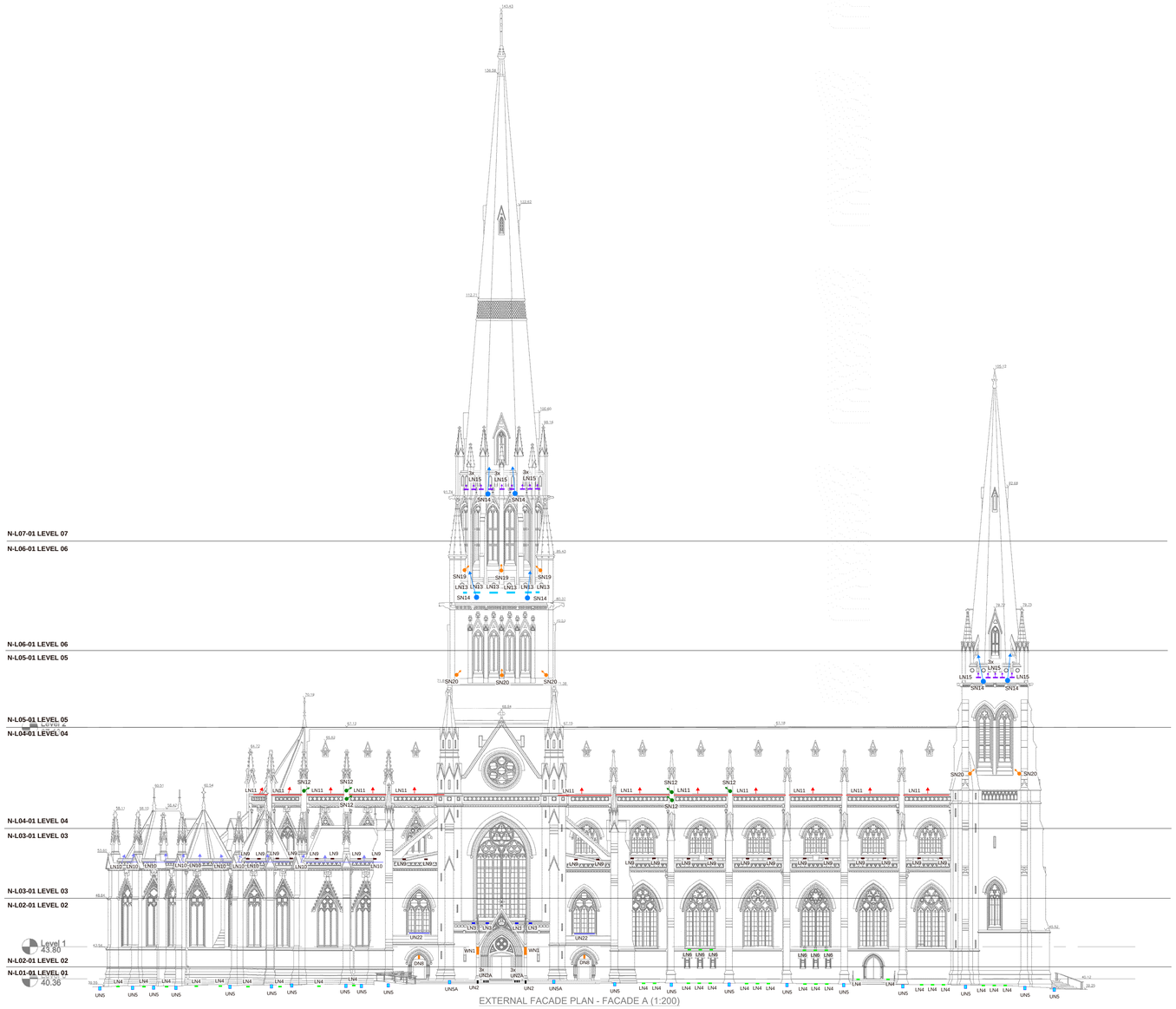
This drawing is diagrammatic and shows the general arrangement of equipment. Any information involving measurement of the works shall be taken from architectural and structural drawings, workshop drawings by others and conditions at the site. The works shall comply with the contract conditions and Statutory Regulations.

Project
ST PATRICK'S CATHEDRAL
1 CATHEDRAL PLACE
Title LIGHTING DESIGN SERVICES
FACADE LIGHTING
LEVEL 07

Scale	Date	Drawn	Design	Project No.
As indicated	21.02.25	MJ	NB	m39460-003N

Set Of
Cad No. 2013
Drawing No. N-L07-01
Revision 02

A1 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150
When reproduced at correct scale this line measures 150mm



EXTERNAL FACADE PLAN - FACADE A (1:200)

1 ST PATRICK'S CATHEDRAL - NORTH ELEVATION LIGHTING LAYOUT

SCALE 1:200

DRAWING NOTES

DRAINAGE IN GROUND SLAB THROUGH TO SUB-SOIL FOR ALL INGROUND LUMINAIRES TO BE COORDINATED BY THE ELECTRICAL CONTRACTOR SO THAT LIGHTS ARE NOT AT RISK OF TOTAL SUBMERSION IN WATER. CONTRACTOR TO FOLLOW MANUFACTURERS INSTRUCTIONS FOR INGROUND INSTALLATION INCLUDING USE OF IP68 CABLE GLANDS AT ALL CABLE JOINTS TO PREVENT CAPILLARY SUCTION OF WATER THROUGH CABLE DURING STANDARD HEATING AND COOLING CYCLES OF OPERATION. POWER TO GROUND PLANE LUMINARES TO BE FED THROUGH RING TRENCH AROUND BASE OF CATHEDRAL.

CABLING ON ROOF TO BE RUN IN CONDUIT MOUNTED TO CONCEALED SIDE OF PARAPET WALLS TO EDGE OF BUILDING RETICUATING TO DRIVER LOCATIONS / CABLE MAMAGEMENT POINTS

CABLING MOUNTED TO THE EXTERIOR VISIBLE FACADE FROM DRIVER TO THE END LUMINAIRE TO BE MIMS (PYRO) DOUBLE INSULATED CABLE WITH ANTIQUE COPPER PATINA FOLDED / BEND TO ALIGN WITH THE GEOMETRY OF THE FACADE / BUILDING

FITTINGS NOTED AS HAVING CUSTOM BRACKETS SHALL BE SHOP DRAWN BY THE CONTRACTOR USING APPROVED MATERIALS AND FIXING METHODS APPROVED BY LOVELL CHEN. BRACKETS TO BE POWDER COATED BLACK FINISH WITH RUBBER SEPARATION PADS WHERE THEY SIT ON ROOF SECTIONS. BRACKETS TO USE A SANDWICH FIXING METHOD FASTENED TO STANDING SEAM. NO PENETRATIONS THROUGH THE ROOF SHALL BE ACCEPTED. WHERE FIXED TO STONE, FIXINGS METHOD SHALL BE ADVISED BY LOVELL CHEN BUT ALL TECHNICAL CRITERIA SHALL REMAIN THE CONTRACTORS RESPONSIBILITY.

EXTERNAL LANDSCAPE PITS TO BE SET IN THE GROUND PLANE TO ENABLE RETICULATION OF ALL INGROUND CONDUITS AND CABLING FROM MAIN CABLING HUB

INSTALLATION NOTES:

TYPE WN1 TO BE EXISTING HERITAGE WALL LANTERN FLANKING ENTRIES TO THE WEST, NORTH AND SOUTH DOORS. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE UN2 TO BE INGROUND NARROW BEAM INGROUND UPLIGHT TO THE BASE OF CATHEDRAL NARTHEX AND TRANSEPT ENTRANCE PIERS CENTRED IN PIER OFFSET FROM FACE BY APPROX 600-800mm TO THE CENTRE OF THE LUMINAUIRE. FINAL OFFSET DISTANCE AND POSITIONING TO BE CONFIRMED ON SITE. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION. FITTING TO BE TILTED A UNIFORM ANGLE INWARD TOWARDS THE PIER

TYPE UN2A TO BE INGROUND NARROW BEAM INGROUND UPLIGHT TO THE BASE OF CATHEDRAL NARTHEX AND TRANSEPT ENTRANCE PORTAL ORNAMENTATION. FITTINGS TO BE ORIENTED TO ALIGN ON A 45 DEGREE TO THE CENTRE OF THE THREE VERTICAL RELIEFE COLUMNS IN THE ARCHITECTURE OFFSET BY 200-300mm FROM THE FACADE. LINEAR SPREAD LENS TO BE ORIENTED TO FOLLOW THE ARCH OF THE COLUMN ACROSS THE ENTRT. FINAL OFFSET DISTANCE AND POSITIONING TO BE CONFIRMED VON SITE. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION.

TYPE LN3 TO BE 450mm MODULES OF LED INGROUND PROFILE WITH INTEGRATED LENS SYSTEM TO GRAZE LIGHT UP THE FACADE OF THE WEST, NORTH AND SOUTH FACADES ABOVE THE ENTRY. FITTING TO BE MOUNTED OFF ADJUSTABLE BRACKETS TO THE INSIDE FACE OF THE SMALL PARAPET WALL ABOVE THE ENTRY. FINAL AIMING TO BE CONFIRMED ON SITE AND LOCKED IN PLACE.

TYPE LN4 TO BE CAST INGROUND 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES SET IN GROUND PLANE / PAVING AROUND THE BASE OF THE CATHEDRAL. CONTRACTOR TO INSTALL INGROUND BLOCKOUT AND THEN INSET MODULAR INGROUND GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1200mm AND 1100mm CENTRE TO CENTRE. POWER TO BE FED THROUGH RING TRENCH AROUND BASE OF CATHEDRAL. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION.

TYPE UN5 TO BE GROUND RECESSED ADJUSTABLE UPLIGHT AT BASE OF EACH PIER. FITTING TO BE OFFSET BY 1000mm FROM THE FACE OF THE COLUMN TO THE CENTRE OF THE FITTING. FINAL SITE CONDITIONS MAY VARY THIS - ALL FITTINGS MUST BE A CONSISTENT OFFSET. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION. FITTINGS TO BE INSTALLED IN CAST IN BLOCKOUT SET IN THE GROUND PLANE WITH DRAINAGE THROUGH TO SUBSOIL

TYPE LN6 TO BE SURFACE MOUNTED 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES MOUNTED TO THE ROOF OF THE CONFESSIONAL MODULES ON CUSTOM STAND OFF BRACKETS (BY CONTRACTOR) CONTRACTOR TO INSTALL BRACKET FIX HOUSING AND LN6 MODULAR GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1200mm AND 1100mm CENTRE TO CENTRE.
POWER ROUTE TO BE FED VIA MIMS CABLING UP FROM THE GROUND PLANE

TYPE DN7 TO BE EXISTING CEILING MOUNTED HERITAGE LANTERN IN THE ENTRY VESTIBULE TO THE WEST NARTHEX. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE DN8 TO BE EXISTING HERITAGE SOFFIT MOUNTED LANTERN FLANKING ENTRIES TO THE WEST, NORTH AND SOUTH DOORS. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE LN9 TO BE SURFACE MOUNTED 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES MOUNTED TO THE AISLE ROOF ON CUSTOM STAND OFF BRACKETS (BY CONTRACTOR) CONTRACTOR TO INSTALL BRACKET FIX HOUSING AND LN9 MODULAR GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1000mm AND CENTRED EITHER SIDE OF THE WINDOW. WHERE ACCESS HATCHES CONLICT THE FINAL LOCATON SHALL BE CONFIRMED ON SITE
POWER ROUTE TO BE EACH END OF THE ROOM ALONG RHE WINDOW SIDE IN A SECURED CONDUIT

TYPE LN10A TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF BRACKET TO INSIDE LIP OF PARAPET TO BOX GUTTER ABOVE CHEVETTE ROOF STRUCTURES IN END TO END CONFIGURATION TO PROVIDE A WASH OF LIGHT UP THE FACADE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR
DRIVERS CO-LOCATED WITH LN10B IN ENCLOSURE ON THE INSIDE OF THE FACADE COLUMNS

TYPE LN10B TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF BRACKET TO BOTTOM EDGE OF CHEVETTE ROOF STRUCTURES IN END TO END CONFIGURATION TO PROVIDE A WASH OF LIGHT UP THE FACADE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR. BRACKET TO BE BRACED ON END TO THE STONE PARAPET EDGE WO NO PENETRATIONS THROUGH GUTTER ARE REQUIRED
DRIVERS CO-LOCATED WITH LN10A IN ENCLOSURE ON THE INSIDE OF THE FACADE COLUMNS

TYPE LN11 TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF CUSTOM BRACKET TO INSIDE LIP OF PARAPET TO BOX GUTTER TO THE MAIN NAVE ROOF BETWEEN THE CRENELLATIONS IN AN END TO END CONFIGURATION TO PROVIDE A WASH ACROSS THE MAIN CATHEDTRAL ROOF STRUCTURE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR
DRIVERS TO BE LOCATED IN WEATHERPROOF ENCLOSURE ON ROOF MOUNTED TO INSIDE PARAPET AT EACH END

TYPE SN12 TO BE ROOF MOUNTED LED SPOTLIGHT WITH OPTICS, GLARE SHIELD AND SNOOT TO MANAGE LIGHT SPILL TO BE AIMED AT MAIN CATHEDRAL SPIRE. FITTINGS TO BE MOUNTED IN VERTICAL CONFIGURATION TO THE INSIDE OF MAIN NAVE ROOF CRENELLATIONS. POWER TO BE FED ALONG INSIDE OF PARAPEP TO DRIVER ENCLOSURE AT END OF ROOF

TYPE LN13 TO BE 600mm LONG LINEAR LED MODULAR LED GRAZER MOUNTED TO PARAPET LEDGE OF BELLTOWERS AND SPIRE AIMING UP AT THE TOWER. FITTINGS INSTALLED IN SECTIONS BETWEEN ARCHITECTURAL FACADE FINS. FINAL LENGTH TO BE SIZED TO ALLOW INSTALLATION AND REMOVAL THROUGH THE ACCESS HATCHES.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE. POWER TO BE RUN UP THROUGH INTERIOR OF THE BUILDING

TYPE SN14 TO BE ADJUSTABLE LED SPOTLIGHT MOUNTED TO PARAPET LEDGE OF BELLTOWER AND SPIRE AIMING UP AT THE CRENELLATIONS.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE. POWER TO BE RUN UP THROUGH INTERIOR OF THE BUILDING

TYPE LN15 TO BE LINEAR LED MODULAR LED GRAZER MOUNTED TO PARAPET LEDGE OF BELLTOWER AND SPIRE AIMING UP AT THE TOWER SPIRE. FITTINGS INSTALLED IN SECTIONS AROUND ANGLES OF THE ROOF.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE

TYPE SN16 TO BE ADJUSTABLE LED SPOTLIGHT MOUNTED TO PARAPET LEDGE OF SPIRE AIMING UP AT THE WINDOWS.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE SPIRE

TYPE SN17A TO BE ADJUSTABLE POLE MOUNTED SPOTLIGHT WITH VARIABLE OPTICS AND SNOOT. FITTING TO BE MOUNTED VIA CLAMP CONFIGURATION IN VERTICAL ARRAY ARRANGEMENT AIMING AT THE WESTERN, NORTHERN AND SOUTHERN FACADES. FINAL AIMING TO BE COMISSIONED ON SITE AND LOCKED INTO PLACE. FITTING TO INCLUDE GLARE SHIELD, OPTICS AND SNOOT TO LIMIT GLARE

TYPE SN17B TO BE ADJUSTABLE POLE MOUNTED SPOTLIGHT WITH VARIABLE OPTICS AND SNOOT. FITTING TO BE MOUNTED VIA CLAMP CONFIGURATION IN VERTICAL ARRAY ARRANGEMENT AIMING AT THE WESTERN, NORTHERN AND SOUTHERN FACADES. FINAL AIMING TO BE COMISSIONED ON SITE AND LOCKED INTO PLACE. FITTING TO INCLUDE GLARE SHIELD, OPTICS AND SNOOT TO LIMIT GLARE

TYPE PN18 TO BE APPROX 6M TALL TAPERED PIPE POLE MOUNTED TO SUNKEN RAG BOLT ASSEMBLY WITH SPIKE PINACLE. POLE TO BE BLACK OR OTHER COLOUR AS APPROVED BY THE HERITAGE CONSULTANT

TYPE SN19 TO BE SURFACE MOUNTED ADJUSTABLE LED FLOOD LIGHT MOUNTED TO INTERIOR OF SPIRE BEHIND WINDOWS TO BACKLIGHT THESE. FITTINGS TO BE MOUNTED OFF BRACKETS TO THE INTERIOR WALL OF THE BUILDING. FINAL AIMING TO BE CONFIRMED ON SITE.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE SPIRE

TYPE SN20 TO BE SURFACE MOUNTED ADJUSTABLE LED FLOOD LIGHT MOUNTED TO INTERIOR WALL OF BELL TOWER AND SPIRE BEHIND LOUVRE WINDOWS TO BACKLIGHT THESE AREAS AND SPILL LIGHT THROUGH THE GAPS. FITTINGS TO BE MOUNTED OFF BRACKETS TO THE INTERIOR WALL OF THE BUILDING. FINAL AIMING TO BE CONFIRMED ON SITE.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE

TYPE UN21 TO BE SURFACE MOUNTED WINDOW SHAPER LUMINAIRE MOUNTED OF CUSTOM BRACKET FIXED TO THE BOTTOM EDGE OF THE WINDOW STRUCTURE. CABLING TO BE DETERMINED ON SITE - PROPOSED STRATEGY TO BE MIMS (PYRO) DOUBLE INSULATED CABLE RUN ALONG LEDGE TO THEN PENETRATE THE FACADE OR WRAP AROUND TO TRHEN RETICULATE ACROSS THE ROOF

TYPE UN22 TO BE SURFACE MOUNTED WINDOW SHAPER LUMINAIRE MOUNTED OF CUSTOM BRACKET FIXED TO THE BOTTOM EDGE OF THE WINDOW STRUCTURE. CABLING TO BE DETERMINED ON SITE - PROPOSED STRATEGY TO BE MIMS (PYRO) DOUBLE INSULATED CABLE RUN ALONG LEDGE TO THEN PENETRATE THE FACADE OR DROP DOWN TO THE GROUND

Rev	Description	Date	Rev	Description	Date	Rev	Description	Date
01	DESIGN DEVELOPMENT	28.04.25						

NDYLIGHT
LIGHTING DESIGN
NDYLIGHT LEVEL 1, 60 MILLER STREET, NORTH SYDNEY, NSW 2060, AUS
TELEPHONE +61 2 9928 6800 FACSIMILE +61 2 9955 6900 http://www.ndy.com
A SPECIALIST DIVISION OF NDY Management Pty Ltd ABN 29 003 234 571
Copyright ©NDY Management Pty Limited.

NDY QA SYSTEM
Reason For issue
COORDINATION
Authorisation
By NB 28.04.25
Verification Of Latest Amendment
By NB 28.04.25

Norman Disney & Young
CONSULTING ENGINEERS
60 MILLER STREET
NORTH SYDNEY NSW 2060
AUSTRALIA
T +61 2 9928 6800
F +61 2 9955 6900
www.ndy.com
NDY Management Pty Ltd
ABN 29 003 234 571
This drawing is diagrammatic and shows the general arrangement of equipment. Any information involving measurement of the works shall be taken from architectural and structural drawings, workshop drawings by others and conditions at the site. The works shall comply with the contract conditions and Statutory Regulations.

Project
ST PATRICK'S CATHEDRAL
1 CATHEDRAL PLACE

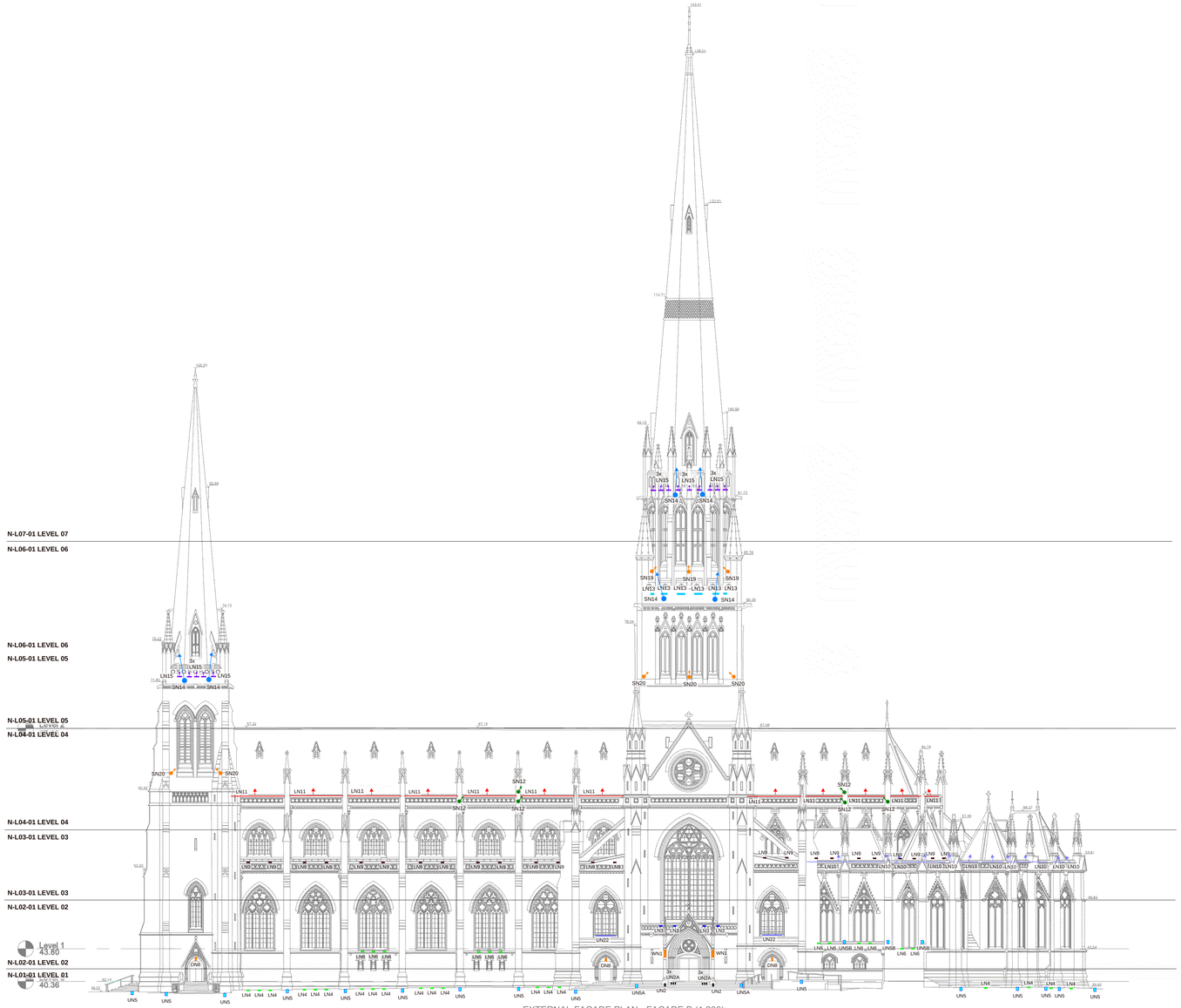
Title LIGHTING DESIGN SERVICES

FACADE LIGHTING
NORTH ELEVATION

Scale	Date	Drawn	Design	Project No.
As indicated	24.04.25	MJ	NB	m39460-003N

Set Of
Cad No. 2013
Drawing No. N-EL-001
Revision 01

A1 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 When reproduced at correct scale this line measures 150mm



EXTERNAL FACADE PLAN - FACADE B (1:200)

2 ST PATRICK'S CATHEDRAL - SOUTH ELEVATION LIGHTING LAYOUT

SCALE 1:200

DRAWING NOTES

DRAINAGE IN GROUND SLAB THROUGH TO SUB-SOIL FOR ALL INGROUND LUMINAIRES TO BE COORDINATED BY THE ELECTRICAL CONTRACTOR SO THAT LIGHTS ARE NOT AT RISK OF TOTAL SUBMERSION IN WATER. CONTRACTOR TO FOLLOW MANUFACTURERS INSTRUCTIONS FOR INGROUND INSTALLATION INCLUDING USE OF IP68 CABLE GLANDS AT ALL CABLE JOINTS TO PREVENT CAPILLARY SUCTION OF WATER THROUGH CABLE DURING STANDARD HEATING AND COOLING CYCLES OF OPERATION. POWER TO GROUND PLANE LUMINARES TO BE FED THROUGH RING TRENCH AROUND BASE OF CATHEDRAL.

CABLING ON ROOF TO BE RUN IN CONDUIT MOUNTED TO CONCEALED SIDE OF PARAPET WALLS TO EDGE OF BUILDING RETICUATING TO DRIVER LOCATIONS / CABLE MAMAGEMENT POINTS

CABLING MOUNTED TO THE EXTERIOR VISIBLE FACADE FROM DRIVER TO THE END LUMINAIRE TO BE MIMS (PYRO) DOUBLE INSULATED CABLE WITH ANTIQUE COPPER PATINA FOLDED / BEND TO ALIGN WITH THE GEOMETRY OF THE FACADE / BUILDING

FITTINGS NOTED AS HAVING CUSTOM BRACKETS SHALL BE SHOP DRAWN BY THE CONTRACTOR USING APPROVED MATERIALS AND FIXING METHODS APPROVED BY LOVELL CHEN. BRACKETS TO BE POWDER COATED BLACK FINISH WITH RUBBER SEPARATION PADS WHERE THEY SIT ON ROOF SECTIONS. BRACKETS TO USE A SANDWICH FIXING METHOD FASTENED TO STANDING SEAM. NO PENETRATIONS THROUGH THE ROOF SHALL BE ACCEPTED. WHERE FIXED TO STONE, FIXINGS METHOD SHALL BE ADVISED BY LOVELL CHEN BUT ALL TECHNICAL CRITERIA SHALL REMAIN THE CONTRACTORS RESPONSIBILITY.

EXTERNAL LANDSCAPE PITS TO BE SET IN THE GROUND PLANE TO ENABLE RETICULATION OF ALL INGROUND CONDUITS AND CABLING FROM MAIN CABLING HUB

INSTALLATION NOTES:

TYPE WN1 TO BE EXISTING HERITAGE WALL LANTERN FLANKING ENTRIES TO THE WEST, NORTH AND SOUTH DOORS. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE UN2 TO BE INGROUND NARROW BEAM INGROUND UPLIGHT TO THE BASE OF CATHEDRAL NARTHEX AND TRANSEPT ENTRANCE PIERS CENTRED IN PIER OFFSET FROM FACE BY APPROX 600-800mm TO THE CENTRE OF THE LUMINAUIRE. FINAL OFFSET DISTANCE AND POSITIONING TO BE CONFIRMED ON SITE, REFER TO DRAWING NOTES FOR INGROUND INSTALLATION. FITTING TO BE TILTED A UNIFORM ANGLE INWARD TOWARDS THE PIER

TYPE UN2A TO BE INGROUND NARROW BEAM INGROUND UPLIGHT TO THE BASE OF CATHEDRAL NARTHEX AND TRANSEPT ENTRANCE PORTAL ORNAMENTATION. FITTINGS TO BE ORIENTED TO ALIGN ON A 45 DEGREE TO THE CENTRE OF THE THREE VERTICAL RELIEFE COLUMNS IN THE ARCHITECTURE OFFSET BY 200-300mm FROM THE FACADE. LINEAR SPREAD LENS TO BE ORIENTED TO FOLLOW THE ARCH OF THE COLUMN ACROSS THE ENTRT. FINAL OFFSET DISTANCE AND POSITIONING TO BE CONFIRMED VON SITE. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION.

TYPE LN3 TO BE 450mm MODULES OF LED INGROUND PROFILE WITH INTEGRATED LENS SYSTEM TO GRAZE LIGHT UP THE FACADE OF THE WEST, NORTH AND SOUTH FACADES ABOVE THE ENTRY. FITTING TO BE MOUNTED OFF ADJUSTABLE BRACKETS TO THE INSIDE FACE OF THE SMALL PARAPET WALL ABOVE THE ENTRY. FINAL AIMING TO BE CONFIRMED ON SITE AND LOCKED IN PLACE.

TYPE LN4 TO BE CAST INGROUND 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES SET IN GROUND PLANE / PAVING AROUND THE BASE OF THE CATHEDRAL. CONTRACTOR TO INSTALL INGROUND BLOCKOUT AND THEN INSET MODULAR INGROUND GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1200mm AND 1100mm CENTRE TO CENTRE. POWER TO BE FED THROUGH RING TRENCH AROUND BASE OF CATHEDRAL. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION.

TYPE UN5 TO BE GROUND RECESSED ADJUSTABLE UPLIGHT AT BASE OF EACH PIER. FITTING TO BE OFFSET BY 1000mm FROM THE FACE OF THE COLUMN TO THE CENTRE OF THE FITTING. FINAL SITE CONDITIONS MAY VARY THIS - ALL FITTINGS MUST BE A CONSISTENT OFFSET. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION. FITTINGS TO BE INSTALLED IN CAST IN BLOCKOUT SET IN THE GROUND PLANE WITH DRAINAGE THROUGH TO SUBSOIL

TYPE LN6 TO BE SURFACE MOUNTED 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES MOUNTED TO THE ROOF OF THE CONFESSIONAL MODULES ON CUSTOM STAND OFF BRACKETS (BY CONTRACTOR) CONTRACTOR TO INSTALL BRACKET FIX HOUSING AND LN6 MODULAR GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1200mm AND 1100mm CENTRE TO CENTRE.
POWER ROUTE TO BE FED VIA MIMS CABLING UP FROM THE GROUND PLANE

TYPE DN7 TO BE EXISTING CEILING MOUNTED HERITAGE LANTERN IN THE ENTRY VESTIBULE TO THE WEST NARTHEX. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE DN8 TO BE EXISTING HERITAGE SOFFIT MOUNTED LANTERN FLANKING ENTRIES TO THE WEST, NORTH AND SOUTH DOORS. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE LN9 TO BE SURFACE MOUNTED 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES MOUNTED TO THE AISLE ROOF ON CUSTOM STAND OFF BRACKETS (BY CONTRACTOR) CONTRACTOR TO INSTALL BRACKET FIX HOUSING AND LN9 MODULAR GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1000mm AND CENTRED EITHER SIDE OF THE WINDOW. WHERE ACCESS HATCHES CONLICT THE FINAL LOCATON SHALL BE CONFIRMED ON SITE
POWER ROUTE TO BE EACH END OF THE ROOM ALONG RHE WINDOW SIDE IN A SECURED CONDUIT

TYPE LN10A TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF BRACKET TO INSIDE LIP OF PARAPET TO BOX GUTTER ABOVE CHEVETTE ROOF STRUCTURES IN END TO END CONFIGURATION TO PROVIDE A WASH OF LIGHT UP THE FACADE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR
DRIVERS CO-LOCATED WITH LN10B IN ENCLOSURE ON THE INSIDE OF THE FACADE COLUMNS

TYPE LN10B TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF BRACKET TO BOTTOM EDGE OF CHEVETTE ROOF STRUCTURES IN END TO END CONFIGURATION TO PROVIDE A WASH OF LIGHT UP THE FACADE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR. BRACKET TO BE BRACED ON END TO THE STONE PARAPET EDGE WO NO PENETRATIONS THROUGH GUTTER ARE REQUIRED
DRIVERS CO-LOCATED WITH LN10A IN ENCLOSURE ON THE INSIDE OF THE FACADE COLUMNS

TYPE LN11 TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF CUSTOM BRACKET TO INSIDE LIP OF PARAPET TO BOX GUTTER TO THE MAIN NAVE ROOF BETWEEN THE CRENELLATIONS IN AN END TO END CONFIGURATION TO PROVIDE A WASH ACROSS THE MAIN CATHEDTRAL ROOF STRUCTURE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR
DRIVERS TO BE LOCATED IN WEATHERPROOF ENCLOSURE ON ROOF MOUNTED TO INSIDE PARAPET AT EACH END

TYPE SN12 TO BE ROOF MOUNTED LED SPOTLIGHT WITH OPTICS, GLARE SHIELD AND SNOOT TO MANAGE LIGHT SPILL TO BE AIMED AT MAIN CATHEDRAL SPIRE. FITTINGS TO BE MOUNTED IN VERTICAL CONFIGURATION TO THE INSIDE OF MAIN NAVE ROOF CRENELLATIONS. POWER TO BE FED ALONG INSIDE OF PARAPEP TO DRIVER ENCLOSURE AT END OF ROOF

TYPE LN13 TO BE 600mm LONG LINEAR LED MODULAR LED GRAZER MOUNTED TO PARAPET LEDGE OF BELLTOWERS AND SPIRE AIMING UP AT THE TOWER. FITTINGS INSTALLED IN SECTIONS BETWEEN ARCHITECTURAL FACADE FINS. FINAL LENGTH TO BE SIZED TO ALLOW INSTALLATION AND REMOVAL THROUGH THE ACCESS HATCHES.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE. POWER TO BE RUN UP THROUGH INTERIOR OF THE BUILDING

TYPE SN14 TO BE ADJUSTABLE LED SPOTLIGHT MOUNTED TO PARAPET LEDGE OF BELLTOWER AND SPIRE AIMING UP AT THE CRENELLATIONS.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE. POWER TO BE RUN UP THROUGH INTERIOR OF THE BUILDING

TYPE LN15 TO BE LINEAR LED MODULAR LED GRAZER MOUNTED TO PARAPET LEDGE OF BELLTOWER AND SPIRE AIMING UP AT THE TOWER SPIRE. FITTINGS INSTALLED IN SECTIONS AROUND ANGLES OF THE ROOF.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE

TYPE SN16 TO BE ADJUSTABLE LED SPOTLIGHT MOUNTED TO PARAPET LEDGE OF SPIRE AIMING UP AT THE WINDOWS.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE SPIRE

TYPE SN17A TO BE ADJUSTABLE POLE MOUNTED SPOTLIGHT WITH VARIABLE OPTICS AND SNOOT. FITTING TO BE MOUNTED VIA CLAMP CONFIGURATION IN VERTICAL ARRAY ARRANGEMENT AIMING AT THE WESTERN, NORTHERN AND SOUTHERN FACADES. FINAL AIMING TO BE COMISSIONED ON SITE AND LOCKED INTO PLACE. FITTING TO INCLUDE GLARE SHIELD, OPTICS AND SNOOT TO LIMIT GLARE

TYPE SN17B TO BE ADJUSTABLE POLE MOUNTED SPOTLIGHT WITH VARIABLE OPTICS AND SNOOT. FITTING TO BE MOUNTED VIA CLAMP CONFIGURATION IN VERTICAL ARRAY ARRANGEMENT AIMING AT THE WESTERN, NORTHERN AND SOUTHERN FACADES. FINAL AIMING TO BE COMISSIONED ON SITE AND LOCKED INTO PLACE. FITTING TO INCLUDE GLARE SHIELD, OPTICS AND SNOOT TO LIMIT GLARE

TYPE PN18 TO BE APPROX 6M TALL TAPERED PIPE POLE MOUNTED TO SUNKEN RAG BOLT ASSEMBLY WITH SPIKE PINACLE. POLE TO BE BLACK OR OTHER COLOUR AS APPROVED BY THE HERITAGE CONSULTANT

TYPE SN19 TO BE SURFACE MOUNTED ADJUSTABLE LED FLOOD LIGHT MOUNTED TO INTERIOR OF SPIRE BEHIND WINDOWS TO BACKLIGHT THESE. FITTINGS TO BE MOUNTED OFF BRACKETS TO THE INTERIOR WALL OF THE BUILDING. FINAL AIMING TO BE CONFIRMED ON SITE.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE SPIRE

TYPE SN20 TO BE SURFACE MOUNTED ADJUSTABLE LED FLOOD LIGHT MOUNTED TO INTERIOR WALL OF BELL TOWER AND SPIRE BEHIND LOUVRE WINDOWS TO BACKLIGHT THESE AREAS AND SPILL LIGHT THROUGH THE GAPS. FITTINGS TO BE MOUNTED OFF BRACKETS TO THE INTERIOR WALL OF THE BUILDING. FINAL AIMING TO BE CONFIRMED ON SITE.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE

TYPE UN21 TO BE SURFACE MOUNTED WINDOW SHAPER LUMINAIRE MOUNTED OF CUSTOM BRACKET FIXED TO THE BOTTOM EDGE OF THE WINDOW STRUCTURE. CABLING TO BE DETERMINED ON SITE - PROPOSED STRATEGY TO BE MIMS (PYRO) DOUBLE INSULATED CABLE RUN ALONG LEDGE TO THEN PENETRATE THE FACADE OR WRAP AROUND TO TRHEN RETICULATE ACROSS THE ROOF

TYPE UN22 TO BE SURFACE MOUNTED WINDOW SHAPER LUMINAIRE MOUNTED OF CUSTOM BRACKET FIXED TO THE BOTTOM EDGE OF THE WINDOW STRUCTURE. CABLING TO BE DETERMINED ON SITE - PROPOSED STRATEGY TO BE MIMS (PYRO) DOUBLE INSULATED CABLE RUN ALONG LEDGE TO THEN PENETRATE THE FACADE OR DROP DOWN TO THE GROUND

Rev	Description	Date	Rev	Description	Date	Rev	Description	Date
01	DESIGN DEVELOPMENT	28.04.25						

NDYLIGHT
LIGHTING DESIGN
NDYLIGHT LEVEL 1, 60 MILLER STREET, NORTH SYDNEY, NSW 2060, AUS
TELEPHONE +61 2 9928 6800 FACSIMILE +61 2 9955 6900 http://www.ndy.com
A SPECIALIST DIVISION OF NDY Management Pty Ltd ABN 29 003 234 571

Copyright ©NDY Management Pty Limited.

NDY QA SYSTEM
Reason For issue
COORDINATION
Authorisation
NB 28.04.25
By
Verification Of Latest Amendment
NB 28.04.25
By

Norman Disney & Young
CONSULTING ENGINEERS
60 MILLER STREET
NORTH SYDNEY NSW 2060
AUSTRALIA
T +61 2 9928 6800
F +61 2 9955 6900
www.ndy.com
NDY Management Pty Ltd
ABN 29 003 234 571

This drawing is diagrammatic and shows the general arrangement of equipment. Any information involving measurement of the works shall be taken from architectural and structural drawings, workshop drawings by others and conditions at the site. The works shall comply with the contract conditions and Statutory Regulations.

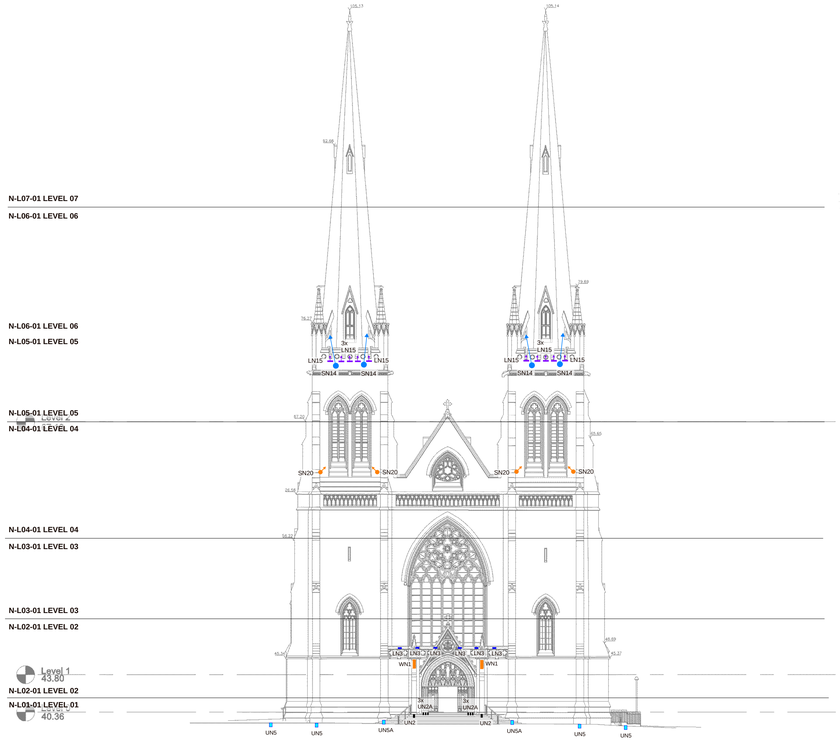
Project: ST PATRICK'S CATHEDRAL
1 CATHEDRAL PLACE

Title: LIGHTING DESIGN SERVICES
FACADE LIGHTING
SOUTH ELEVATION

Scale	Date	Drawn	Design	Project No.
As indicated	24.04.25	MJ	NB	m39460-003N

Set Of
Cad No. 2013
Drawing No. N-EL-003
Revision 01

A1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150
When reproduced at correct scale this line measures 150mm



EXTERNAL FACADE PLAN - FACADE E (1:200)

5 ST PATRICK'S CATHEDRAL - WEST ELEVATION LIGHTING LAYOUT

SCALE 1:200

DRAWING NOTES

DRAINAGE IN GROUND SLAB THROUGH TO SUB-SOIL FOR ALL INGROUND LUMINAIRES TO BE COORDINATED BY THE ELECTRICAL CONTRACTOR SO THAT LIGHTS ARE NOT AT RISK OF TOTAL SUBMERSION IN WATER. CONTRACTOR TO FOLLOW MANUFACTURERS INSTRUCTIONS FOR INGROUND INSTALLATION INCLUDING USE OF IP68 CABLE GLANDS AT ALL CABLE JOINTS TO PREVENT CAPILLARY SUCTION OF WATER THROUGH CABLE DURING STANDARD HEATING AND COOLING CYCLES OF OPERATION. POWER TO GROUND PLANE LUMINARES TO BE FED THROUGH RING TRENCH AROUND BASE OF CATHEDRAL.

CABLING ON ROOF TO BE RUN IN CONDUIT MOUNTED TO CONCEALED SIDE OF PARAPET WALLS TO EDGE OF BUILDING RETICUATING TO DRIVER LOCATIONS / CABLE MAMAGEMENT POINTS

CABLING MOUNTED TO THE EXTERIOR VISIBLE FACADE FROM DRIVER TO THE END LUMINAIRE TO BE MIMS (PYRO) DOUBLE INSULATED CABLE WITH ANTIQUE COPPER PATINA FOLDED / BEND TO ALIGN WITH THE GEOMETRY OF THE FACADE / BUILDING

FITTINGS NOTED AS HAVING CUSTOM BRACKETS SHALL BE SHOP DRAWN BY THE CONTRACTOR USING APPROVED MATERIALS AND FIXING METHODS APPROVED BY LOVELL CHEN. BRACKETS TO BE POWDER COATED BLACK FINISH WITH RUBBER SEPARATION PADS WHERE THEY SIT ON ROOF SECTIONS. BRACKETS TO USE A SANDWICH FIXING METHOD FASTENED TO STANDING SEAM. NO PENETRATIONS THROUGH THE ROOF SHALL BE ACCEPTED. WHERE FIXED TO STONE, FIXINGS METHOD SHALL BE ADVISED BY LOVELL CHEN BUT ALL TECHNICAL CRITERIA SHALL REMAIN THE CONTRACTORS RESPONSIBILITY.

EXTERNAL LANDSCAPE PITS TO BE SET IN THE GROUND PLANE TO ENABLE RETICULATION OF ALL INGROUND CONDUITS AND CABLING FROM MAIN CABLING HUB

INSTALLATION NOTES:

TYPE WN1 TO BE EXISTING HERITAGE WALL LANTERN FLANKING ENTRIES TO THE WEST, NORTH AND SOUTH DOORS. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE UN2 TO BE INGROUND NARROW BEAM INGROUND UPLIGHT TO THE BASE OF CATHEDRAL NARTHEX AND TRANSEPT ENTRANCE PIERS CENTRED IN PIER OFFSET FROM FACE BY APPROX 600-800mm TO THE CENTRE OF THE LUMINAUIRE. FINAL OFFSET DISTANCE AND POSITIONING TO BE CONFIRMED ON SITE. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION. FITTING TO BE TILTED A UNIFORM ANGLE INWARD TOWARDS THE PIER

TYPE UN2A TO BE INGROUND NARROW BEAM INGROUND UPLIGHT TO THE BASE OF CATHEDRAL NARTHEX AND TRANSEPT ENTRANCE PORTAL ORNAMENTATION. FITTINGS TO BE ORIENTED TO ALIGN ON A 45 DEGREE TO THE CENTRE OF THE THREE VERTICAL RELIEFE COLUMNS IN THE ARCHITECTURE OFFSET BY 200-300mm FROM THE FACADE. LINEAR SPREAD LENS TO BE ORIENTED TO FOLLOW THE ARCH OF THE COLUMN ACROSS THE ENTRT. FINAL OFFSET DISTANCE AND POSITIONING TO BE CONFIRMED VON SITE. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION.

TYPE LN3 TO BE 450mm MODULES OF LED INGROUND PROFILE WITH INTEGRATED LENS SYSTEM TO GRAZE LIGHT UP THE FACADE OF THE WEST, NORTH AND SOUTH FACADES ABOVE THE ENTRY. FITTING TO BE MOUNTED OFF ADJUSTABLE BRACKETS TO THE INSIDE FACE OF THE SMALL PARAPET WALL ABOVE THE ENTRY. FINAL AIMING TO BE CONFIRMED ON SITE AND LOCKED IN PLACE.

TYPE LN4 TO BE CAST INGROUND 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES SET IN GROUND PLANE / PAVING AROUND THE BASE OF THE CATHEDRAL. CONTRACTOR TO INSTALL INGROUND BLOCKOUT AND THEN INSET MODULAR INGROUND GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1200mm AND 1100mm CENTRE TO CENTRE. POWER TO BE FED THROUGH RING TRENCH AROUND BASE OF CATHEDRAL. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION.

TYPE UN5 TO BE GROUND RECESSED ADJUSTABLE UPLIGHT AT BASE OF EACH PIER. FITTING TO BE OFFSET BY 1000mm FROM THE FACE OF THE COLUMN TO THE CENTRE OF THE FITTING. FINAL SITE CONDITIONS MAY VARY THIS - ALL FITTINGS MUST BE A CONSISTENT OFFSET. REFER TO DRAWING NOTES FOR INGROUND INSTALLATION. FITTINGS TO BE INSTALLED IN CAST IN BLOCKOUT SET IN THE GROUND PLANE WITH DRAINAGE THROUGH TO SUBSOIL

TYPE LN6 TO BE SURFACE MOUNTED 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES MOUNTED TO THE ROOF OF THE CONFESSIONAL MODULES ON CUSTOM STAND OFF BRACKETS (BY CONTRACTOR) CONTRACTOR TO INSTALL BRACKET FIX HOUSING AND LN6 MODULAR GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1200mm AND 1100mm CENTRE TO CENTRE.
POWER ROUTE TO BE FED VIA MIMS CABLING UP FROM THE GROUND PLANE

TYPE DN7 TO BE EXISTING CEILING MOUNTED HERITAGE LANTERN IN THE ENTRY VESTIBULE TO THE WEST NARTHEX. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE DN8 TO BE EXISTING HERITAGE SOFFIT MOUNTED LANTERN FLANKING ENTRIES TO THE WEST, NORTH AND SOUTH DOORS. LANTERN TO BE CAREFULLY REMOVED AND DELIVERED TO THE APPOINTED RESTORATION CONSULTANT.

TYPE LN9 TO BE SURFACE MOUNTED 450mm LONG LINEAR LED GRAZER LUMINAIRE MODULES MOUNTED TO THE AISLE ROOF ON CUSTOM STAND OFF BRACKETS (BY CONTRACTOR) CONTRACTOR TO INSTALL BRACKET FIX HOUSING AND LN9 MODULAR GRAZER LIGHTS. FITTINGS TO BE OFFSET FROM FACE OF FACADE BY APPROX 1000mm AND CENTRED EITHER SIDE OF THE WINDOW. WHERE ACCESS HATCHES CONLICT THE FINAL LOCATON SHALL BE CONFIRMED ON SITE
POWER ROUTE TO BE EACH END OF THE ROOM ALONG RHE WINDOW SIDE IN A SECURED CONDUIT

TYPE LN10A TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF BRACKET TO INSIDE LIP OF PARAPET TO BOX GUTTER ABOVE CHEVETTE ROOF STRUCTURES IN END TO END CONFIGURATION TO PROVIDE A WASH OF LIGHT UP THE FACADE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR
DRIVERS CO-LOCATED WITH LN10B IN ENCLOSURE ON THE INSIDE OF THE FACADE COLUMNS

TYPE LN10B TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF BRACKET TO BOTTOM EDGE OF CHEVETTE ROOF STRUCTURES IN END TO END CONFIGURATION TO PROVIDE A WASH OF LIGHT UP THE FACADE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR. BRACKET TO BE BRACED ON END TO THE STONE PARAPET EDGE WO NO PENETRATIONS THROUGH GUTTER ARE REQUIRED
DRIVERS CO-LOCATED WITH LN10A IN ENCLOSURE ON THE INSIDE OF THE FACADE COLUMNS

TYPE LN11 TO BE LINEAR MINI LED PROJECTOR INSTALLED OFF CUSTOM BRACKET TO INSIDE LIP OF PARAPET TO BOX GUTTER TO THE MAIN NAVE ROOF BETWEEN THE CRENELLATIONS IN AN END TO END CONFIGURATION TO PROVIDE A WASH ACROSS THE MAIN CATHEDTRAL ROOF STRUCTURE. BRACKETS TO BE CUSTOM TO SUIT THE APPLICATION BY THE CONTRACTOR
DRIVERS TO BE LOCATED IN WEATHERPROOF ENCLOSURE ON ROOF MOUNTED TO INSIDE PARAPET AT EACH END

TYPE SN12 TO BE ROOF MOUNTED LED SPOTLIGHT WITH OPTICS, GLARE SHIELD AND SNOOT TO MANAGE LIGHT SPILL TO BE AIMED AT MAIN CATHEDRAL SPIRE. FITTINGS TO BE MOUNTED IN VERTICAL CONFIGURATION TO THE INSIDE OF MAIN NAVE ROOF CRENELLATIONS. POWER TO BE FED ALONG INSIDE OF PARAPEP TO DRIVER ENCLOSURE AT END OF ROOF

TYPE LN13 TO BE 600mm LONG LINEAR LED MODULAR LED GRAZER MOUNTED TO PARAPET LEDGE OF BELLTOWERS AND SPIRE AIMING UP AT THE TOWER. FITTINGS INSTALLED IN SECTIONS BETWEEN ARCHITECTURAL FACADE FINS. FINAL LENGTH TO BE SIZED TO ALLOW INSTALLATION AND REMOVAL THROUGH THE ACCESS HATCHES.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE. POWER TO BE RUN UP THROUGH INTERIOR OF THE BUILDING

TYPE SN14 TO BE ADJUSTABLE LED SPOTLIGHT MOUNTED TO PARAPET LEDGE OF BELLTOWER AND SPIRE AIMING UP AT THE CRENELLATIONS.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE. POWER TO BE RUN UP THROUGH INTERIOR OF THE BUILDING

TYPE LN15 TO BE LINEAR LED MODULAR LED GRAZER MOUNTED TO PARAPET LEDGE OF BELLTOWER AND SPIRE AIMING UP AT THE TOWER SPIRE. FITTINGS INSTALLED IN SECTIONS AROUND ANGLES OF THE ROOF.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE

TYPE SN16 TO BE ADJUSTABLE LED SPOTLIGHT MOUNTED TO PARAPET LEDGE OF SPIRE AIMING UP AT THE WINDOWS.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE SPIRE

TYPE SN17A TO BE ADJUSTABLE POLE MOUNTED SPOTLIGHT WITH VARIABLE OPTICS AND SNOOT. FITTING TO BE MOUNTED VIA CLAMP CONFIGURATION IN VERTICAL ARRAY ARRANGEMENT AIMING AT THE WESTERN, NORTHERN AND SOUTHERN FACADES. FINAL AIMING TO BE COMISSIONED ON SITE AND LOCKED INTO PLACE. FITTING TO INCLUDE GLARE SHIELD, OPTICS AND SNOOT TO LIMIT GLARE

TYPE SN17B TO BE ADJUSTABLE POLE MOUNTED SPOTLIGHT WITH VARIABLE OPTICS AND SNOOT. FITTING TO BE MOUNTED VIA CLAMP CONFIGURATION IN VERTICAL ARRAY ARRANGEMENT AIMING AT THE WESTERN, NORTHERN AND SOUTHERN FACADES. FINAL AIMING TO BE COMISSIONED ON SITE AND LOCKED INTO PLACE. FITTING TO INCLUDE GLARE SHIELD, OPTICS AND SNOOT TO LIMIT GLARE

TYPE PN18 TO BE APPROX 6M TALL TAPERED PIPE POLE MOUNTED TO SUNKEN RAG BOLT ASSEMBLY WITH SPIKE PINACLE. POLE TO BE BLACK OR OTHER COLOUR AS APPROVED BY THE HERITAGE CONSULTANT

TYPE SN19 TO BE SURFACE MOUNTED ADJUSTABLE LED FLOOD LIGHT MOUNTED TO INTERIOR OF SPIRE BEHIND WINDOWS TO BACKLIGHT THESE. FITTINGS TO BE MOUNTED OFF BRACKETS TO THE INTERIOR WALL OF THE BUILDING. FINAL AIMING TO BE CONFIRMED ON SITE.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE SPIRE

TYPE SN20 TO BE SURFACE MOUNTED ADJUSTABLE LED FLOOD LIGHT MOUNTED TO INTERIOR WALL OF BELL TOWER AND SPIRE BEHIND LOUVRE WINDOWS TO BACKLIGHT THESE AREAS AND SPILL LIGHT THROUGH THE GAPS. FITTINGS TO BE MOUNTED OFF BRACKETS TO THE INTERIOR WALL OF THE BUILDING. FINAL AIMING TO BE CONFIRMED ON SITE.
DRIVERS TO BE LOCATED INTERNALLY WITHIN THE BELLTOWER / SPIRE

TYPE UN21 TO BE SURFACE MOUNTED WINDOW SHAPER LUMINAIRE MOUNTED OF CUSTOM BRACKET FIXED TO THE BOTTOM EDGE OF THE WINDOW STRUCTURE. CABLING TO BE DETERMINED ON SITE - PROPOSED STRATEGY TO BE MIMS (PYRO) DOUBLE INSULATED CABLE RUN ALONG LEDGE TO THEN PENETRATE THE FACADE OR WRAP AROUND TO TRHEN RETICULATE ACROSS THE ROOF

TYPE UN22 TO BE SURFACE MOUNTED WINDOW SHAPER LUMINAIRE MOUNTED OF CUSTOM BRACKET FIXED TO THE BOTTOM EDGE OF THE WINDOW STRUCTURE. CABLING TO BE DETERMINED ON SITE - PROPOSED STRATEGY TO BE MIMS (PYRO) DOUBLE INSULATED CABLE RUN ALONG LEDGE TO THEN PENETRATE THE FACADE OR DROP DOWN TO THE GROUND

Rev	Description	Date	Rev	Description	Date	Rev	Description	Date
01	DESIGN DEVELOPMENT	28.04.25						

NDYLIGHT
LIGHTING DESIGN
NDYLIGHT LEVEL 1, 60 MILLER STREET, NORTH SYDNEY, NSW 2060, AUS
TELEPHONE +61 2 9928 6800 FACSIMILE +61 2 9955 6900 http://www.ndy.com
A SPECIALIST DIVISION OF NDY Management Pty Ltd ABN 29 003 234 571

Copyright ©NDY Management Pty Limited.

NDY QA SYSTEM
Reason For issue
COORDINATION
Authorisation
NB 28.04.25
By
Verification Of Latest Amendment
NB 28.04.25
By

Norman Disney & Young
CONSULTING ENGINEERS
60 MILLER STREET
NORTH SYDNEY NSW 2060
AUSTRALIA
T +61 2 9928 6800
F +61 2 9955 6900
www.ndy.com
NDY Management Pty Ltd
ABN 29 003 234 571

This drawing is diagrammatic and shows the general arrangement of equipment. Any information involving measurement of the works shall be taken from architectural and structural drawings, workshop drawings by others and conditions at the site. The works shall comply with the contract conditions and Statutory Regulations.

Project
ST PATRICK'S CATHEDRAL
1 CATHEDRAL PLACE

Title LIGHTING DESIGN SERVICES
FACADE LIGHTING
WEST ELEVATION

Scale	Date	Drawn	Design	Project No.
As indicated	24.04.25	MJ	NB	m39460-003N

Set Of
Cad No. 2013
Drawing No. N-EL-004
Revision 01

A1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150
When reproduced at correct scale this line measures 150mm