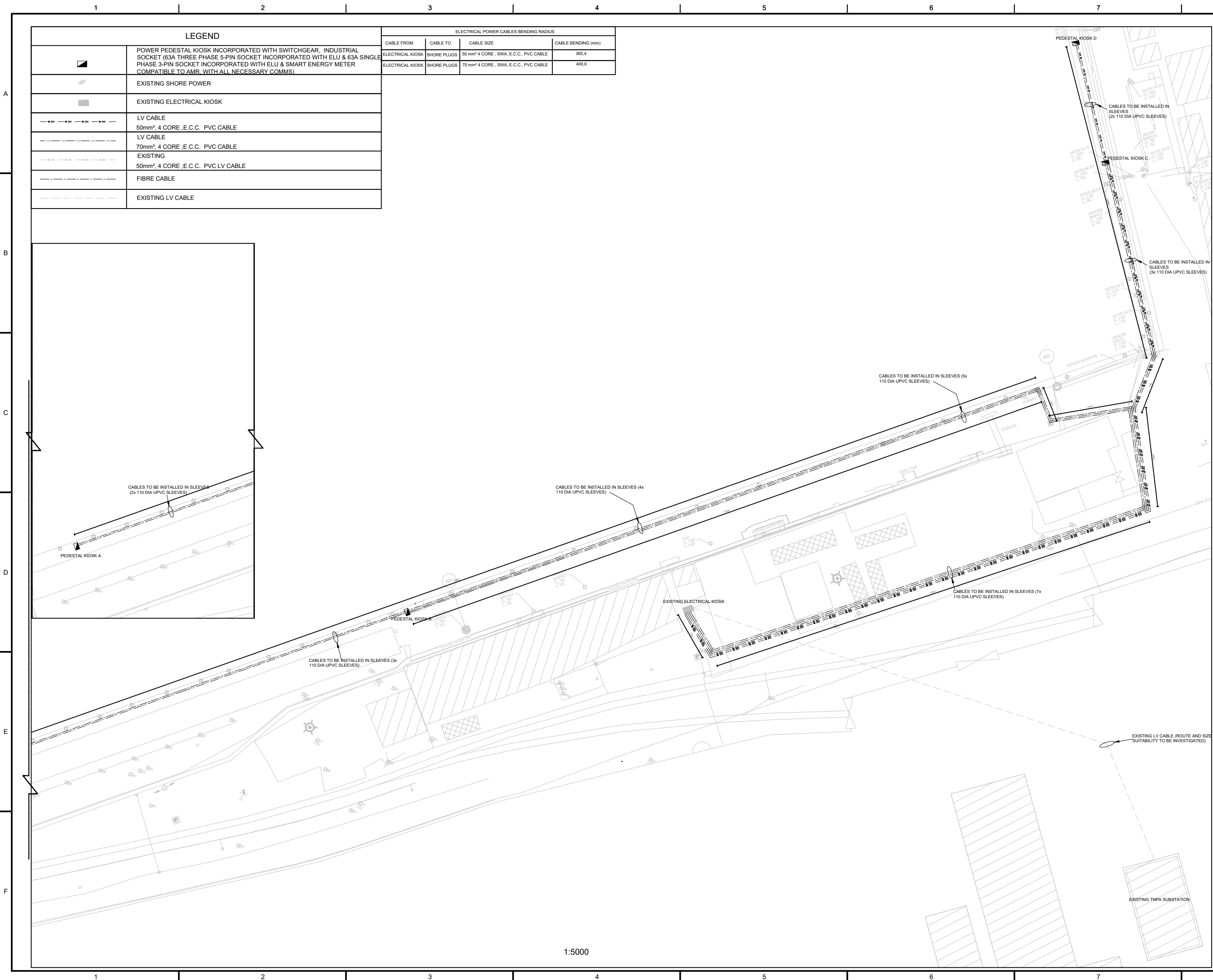




Annexure L

Electrical drawings



LEGEND	
	POWER PEDESTAL KIOSK INCORPORATED WITH SWITCHGEAR, INDUSTRIAL SOCKET (63A THREE PHASE 5-PIN SOCKET INCORPORATED WITH ELU & 63A SINGLE PHASE 3-PIN SOCKET INCORPORATED WITH ELU & SMART ENERGY METER COMPATIBLE TO AMR, WITH ALL NECESSARY COMMS)
	EXISTING SHORE POWER
	EXISTING ELECTRICAL KIOSK
	LV CABLE 50mm², 4 CORE ,E.C.C. PVC CABLE
	LV CABLE 70mm², 4 CORE ,E.C.C. PVC CABLE
	EXISTING 50mm², 4 CORE ,E.C.C. PVC LV CABLE
	FIBRE CABLE
	EXISTING LV CABLE

ELECTRICAL POWER CABLES BENDING RADIUS			
CABLE FROM	CABLE TO	CABLE SIZE	CABLE BENDING (mm)
ELECTRICAL KIOSK	SHORE PLUGS	50 mm² 4 CORE , SWA, E.C.C., PVC CABLE	365,4
ELECTRICAL KIOSK	SHORE PLUGS	70 mm² 4 CORE , SWA, E.C.C., PVC CABLE	400,9

ELECTRICAL NOTES

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- CABLE ROUTES ARE PROVISIONAL AND SUBJECT TO CHANGE
- ELECTRICAL CABLES TO BE INSTALLED IN SLEEVES (110 DIAMETER SLEEVES) AT THE DEPTH OF 600mm
- CO-ORDINATES TO BE VERIFIED ON SITE.
- CONTRACTOR TO INVESTIGATE THE SUITABILITY OF THE EXISTING LV CABLE FROM TNPA SUBSTATION D TO THE EXISTING DISTRIBUTION KIOSK AND SHOULD THE CABLE FOUND NOT SUITABLE IT SHALL BE REPLACED WITH THE SUITABLE CABLE.

02	CONSTRUCTION REVISION	S.D	T.M	M.M	26/02/2025
01	RE-ISSUED FOR CONSTRUCTION	S.D	L.M	M.M	20/08/2024
00	ISSUED FOR CONSTRUCTION	S.D	L.M	M.M	20/03/2024
NO	DESCRIPTION	BY	CHKD	APPD	DATE

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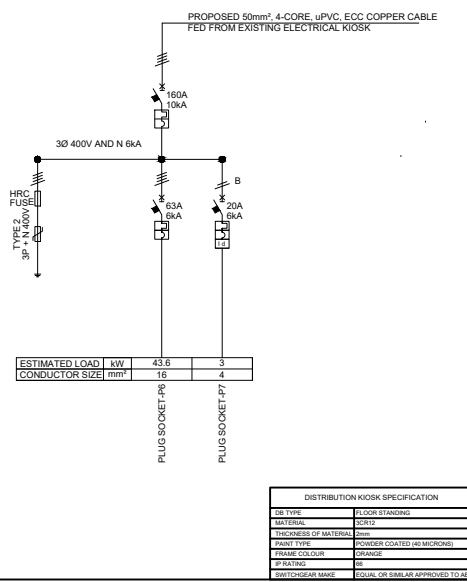
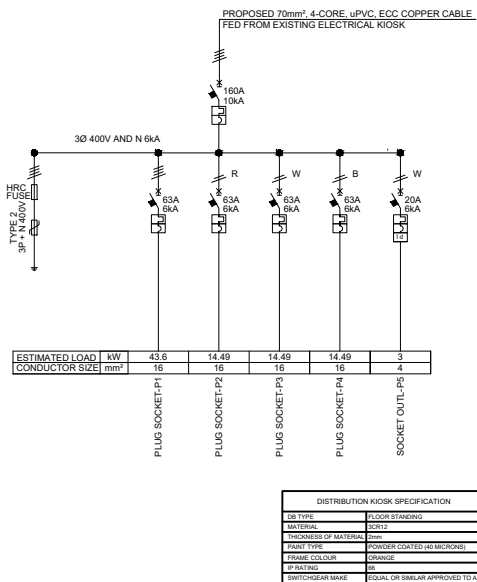
CONTRACTOR / CONSULTANT			
TITLE	NAME	SIGN	DATE
DRAWN	-	-	-
CHECKED	-	-	-
DESIGNED	-	-	-
CHECKED	-	-	-
PR. ENG. / PR. TECH./PR. ARCH			
NAME			DATE
SIGNATURE			-
REG. NUMBER			
TRANSNET NATIONAL PORTS AUTHORITY			
TITLE	NAME	SIGN	DATE
DRAWN	S.DLAMINI		26 02 25
CHECKED	T.MUGERI		26 02 25
DESIGNED	S.DLAMINI		26 02 25
CHECKED	T.MUGERI		26 02 25
PR. ENG. / PR. TECH./PR. ARCH			
NAME	M.MLONGI		
SIGNATURE			
REG. NUMBER	200570007		
SCALE	AS SHOWN		

TRANSNET SOC Ltd : REG No. 1990/000900/30
4MENDI BUILDING
KLUB ROAD
PORT OF NGQURA
GOEBERHA

PROJECT / AREA / ASSET / SUBJECT/DRAWING TITLE			
PORT OF PORT ELIZABETH			
DOM PEDRO QUAY REFURBISHMENT POWER LAYOUT			
PAPER SIZE	TRANSNET DRW. NO.	REV	
A0	PROJECT DRW. NO.	REV	
XPE0017-1-000-E-LA-0001-01		02	

ELECTRICAL PEDESTAL KIOSK (A&B)

THIS DRAWING IS FOR EL&P ONLY.
A CERTIFICATE OF COMPLIANCE TO BE
COMPLETED BY CONTRACTOR ON COMPLETION
OF WORK
THE EARTHING AND LIGHTNING PROTECTION
CONTRACTOR SHALL CARRY OUT A SOIL
RESISTIVITY SURVEY PRIOR TO COMMENCING
THE WORK.
ALL WORK MUST COMPLY WITH THE GENERAL
REQUIREMENTS OF SANS 10142-1(as amended).
THE CONTRACTOR AND PANEL MANUFACTURER
REFERRED SPECIFICALLY TO CLAUSE
6.6/2.6/6.3/6.6.4 AND 6.6.5.
LIGHTING CIRCUITS SHALL BE INSTALLED IN
EXISTING KIOSK.



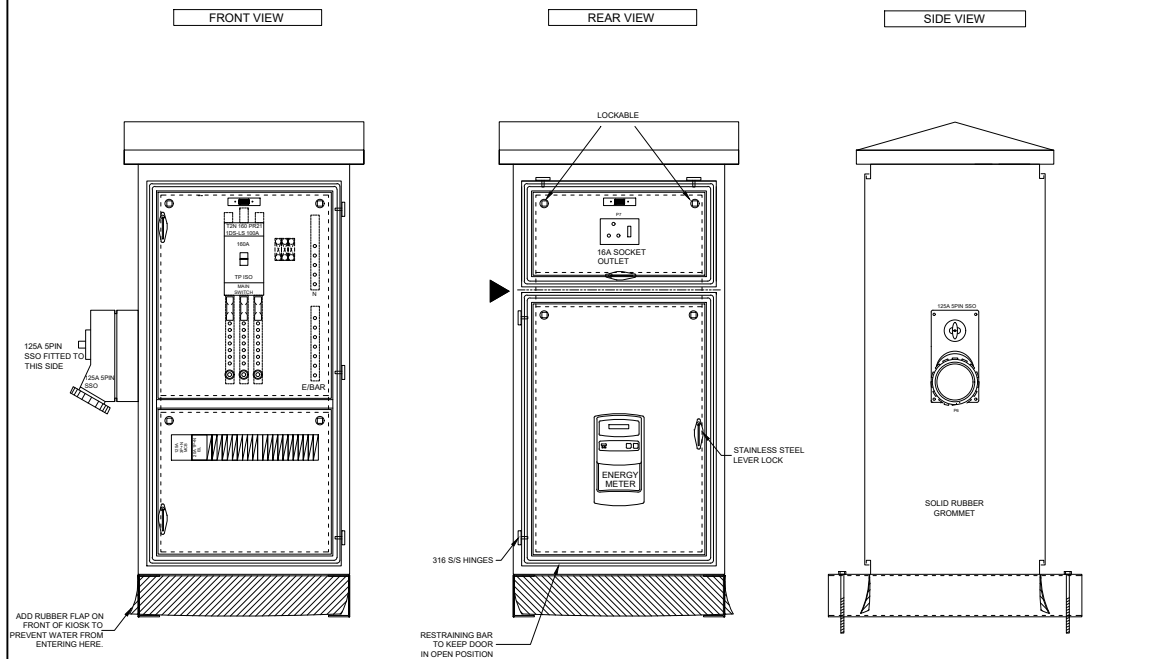
DISTRIBUTION KIOSK SPECIFICATION	
SPARE WAYS	30%
DB TYPE	FLOOR STANDING
IP RATING	65
SWITCHGEAR MAKE	EQUAL OR SIMILAR APPROVED TO A

DISTRIBUTION KIOSK SPECIFICATION	
DE TYPE	FLOOR STANDING
MATERIAL	3CR12
THICKNESS OF MATERIAL	2mm
PAINT TYPE	POWDER COATED (40 MICRONS)
FRAME COLOUR	ORANGE
IP RATING	66
SWITCH/GEAR MAKE	EQUAL OR SIMILAR APPROVED TO A

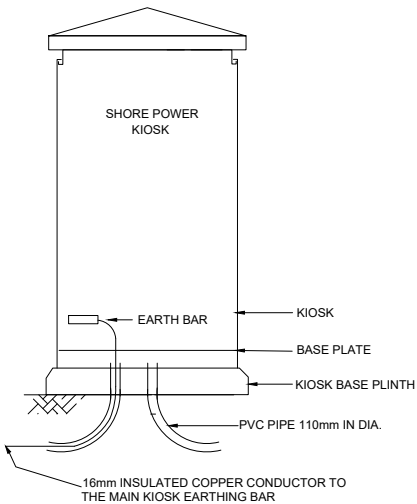
DISTRIBUTION KIOSK SPECIFICATION	
DB TYPE	FLOOR STANDING
MATERIAL	3CR12
THICKNESS OF MATERIAL	2mm
PAINT TYPE	POWDER COATED (40 MICRONS)
FRAME COLOUR	ORANGE
IP RATING	65
SWITCHGEAR MAKE	EQUAL OR SIMILAR APPROVED TO A&P

TYPICAL PEDESTAL KIOSK (KIOSK-A&B) (NTS)

TYPICAL PEDESTAL KIOSK (KIOSK-C&D) (NTS)



SHORE POWER KIOSK-TYPICAL EARTHING DETAILS (N.T.S.)



02	CONSTRUCTION REVISION	S.D	T.M	M.M	26/02/2025
01	RE-ISSUED FOR CONSTRUCTION	S.D	L.M	M.M	29/08/2024
00	ISSUED FOR CONSTRUCTION	S.D	L.M	M.M	20/03/2024
NO.	DESCRIPTION	BY	CHKD	APPD	DATE

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DRAWN	.		. . .
CHECKED	.		
DESIGNED	.		. . .
CHECKED	.		

PR.ENG. / PR.TECH./PR. ARCH

NAME		DATE	
SIGNATURE			
REG. NUMBER			
TITLE			

ET NATIONAL PORTS AUTHORITY

TITLE	NAME	SIGN	DATE
DRAWN	S.DLAMINI		26 02 25
CHECKED	T.MUGERI		26 02 25
DESIGNED	S.DLAMINI		26 02 25
CHECKED	T.MUGERI		26 02 25

PR.ENG. / PR.TECH./PR. ARCH

NAME		M.MILONZI		DATE	
SIGNATURE				26	02
REG. NUMBER		200570067			
SCALE	AS SHOWN				

SALE	AS SHOWN
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PORT OF NGQURA
GQEERHA

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PORT OF PORT ELIZABETH

DOM PEDRO QUAY REFURBISHMENT

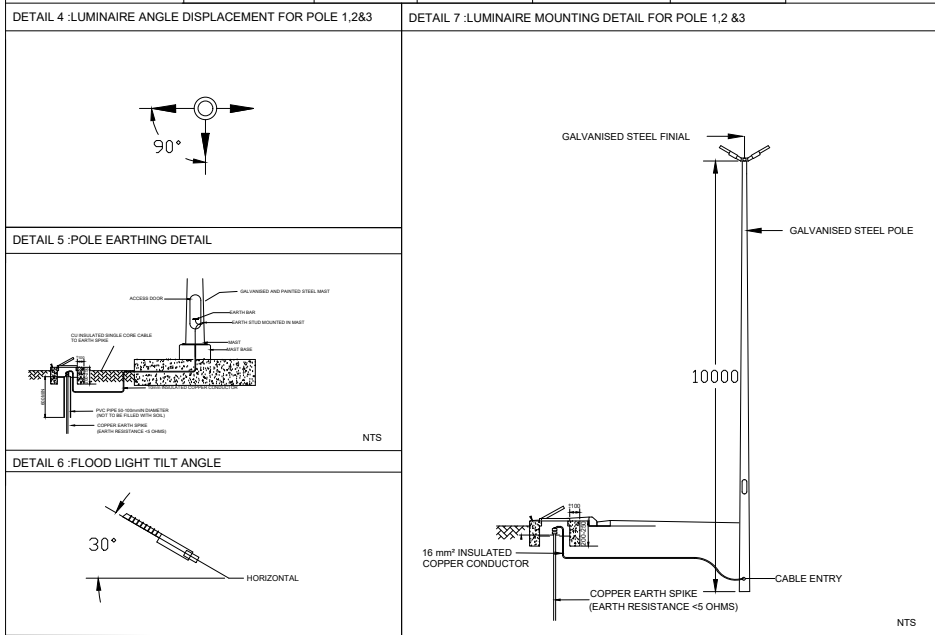
POWER PEDESTAL DISTRIBUTION KIOSKS

LAYOUT

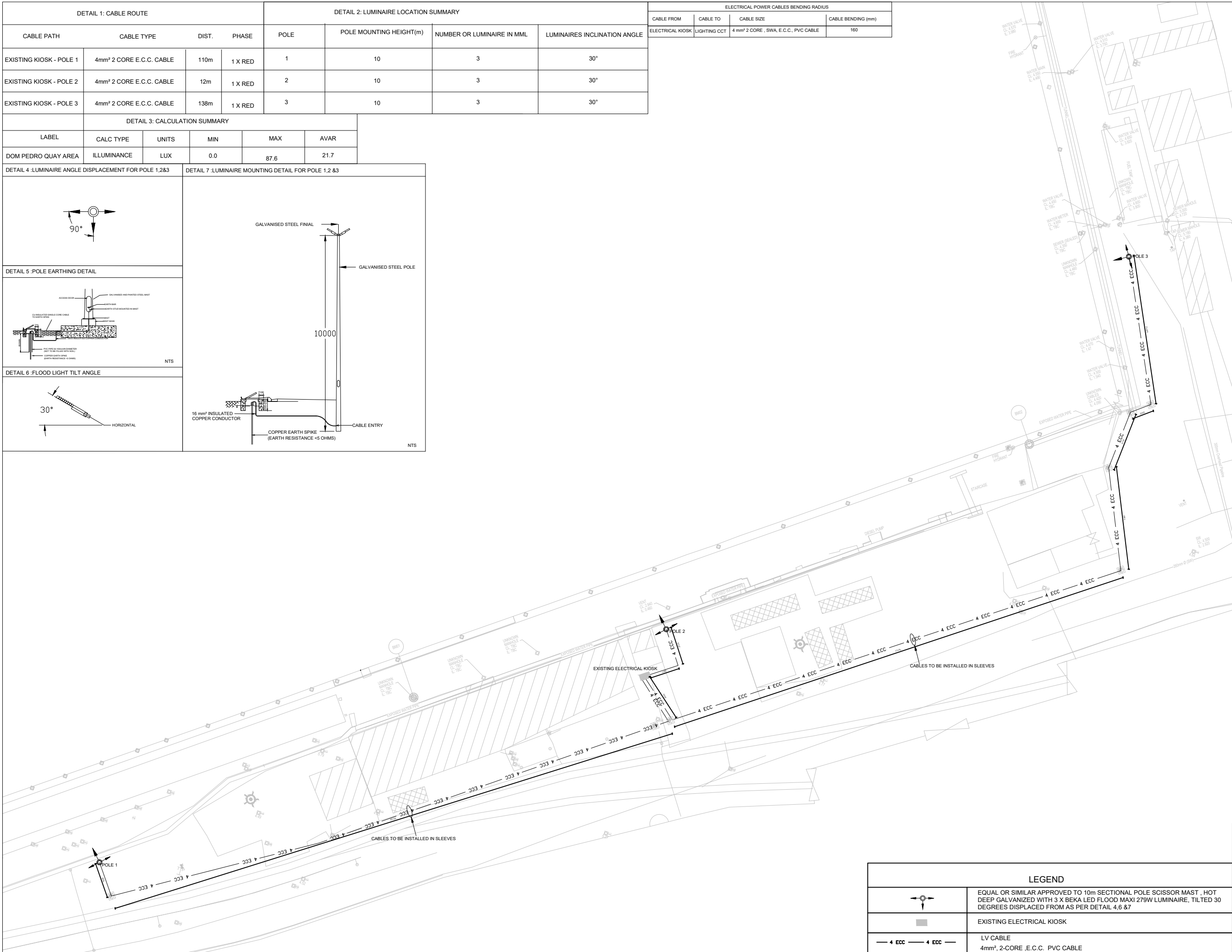
PAPER SIZE A0	TRANSNET DRV. NO.	REV
PROJECT DRG. NO. XPE0017-1-000-E-LA-0003-01		REV 02

DETAIL 1: CABLE ROUTE				DETAIL 2: LUMINAIRE LOCATION SUMMARY			
CABLE PATH	CABLE TYPE	DIST.	PHASE	POLE	POLE MOUNTING HEIGHT(m)	NUMBER OR LUMINAIRE IN MML	LUMINAIRES INCLINATION ANGLE
EXISTING KIOSK - POLE 1	4mm² 2 CORE E.C.C. CABLE	110m	1 X RED	1	10	3	30°
EXISTING KIOSK - POLE 2	4mm² 2 CORE E.C.C. CABLE	12m	1 X RED	2	10	3	30°
EXISTING KIOSK - POLE 3	4mm² 2 CORE E.C.C. CABLE	138m	1 X RED	3	10	3	30°

DETAIL 3: CALCULATION SUMMARY					
LABEL	CALC TYPE	UNITS	MIN	MAX	AVAR
DOM PEDRO QUAY AREA	ILLUMINANCE	LUX	0.0	87.6	21.7



ELECTRICAL POWER CABLES BENDING RADIUS			
CABLE FROM	CABLE TO	CABLE SIZE	CABLE BENDING (mm)
ELECTRICAL KIOSK	LIGHTING CCT	4 mm² 2 CORE , SWA, E.C.C., PVC CABLE	160



LEGEND	
	EQUAL OR SIMILAR APPROVED TO 10m SECTIONAL POLE SCISSOR MAST , HOT DEEP GALVANIZED WITH 3 X BEKA LED FLOOD MAXI 279W LUMINAIRE, TILTED 30 DEGREES DISPLACED FROM AS PER DETAIL 4,6 & 7
	EXISTING ELECTRICAL KIOSK
	LV CABLE
	4mm², 2-CORE ,E.C.C. PVC CABLE

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01	RE-ISSUED FOR CONSTRUCTION	S.D.	L.M.	M.M.	29/08/2024
02	ISSUED FOR CONSTRUCTION	S.D.	L.M.	M.M.	29/08/2024
NO DESCRIPTION	BY	CHKD	APPD	DATE	

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CHECKED	-	-	-
DESIGNED	-	-	-
CHECKED	-	-	-
PR. ENG. / PR. TECH./PR. ARCH			
NAME			DATE
SIGNATURE			-
REG. NUMBER			-
TITLE			-
TRANSNET NATIONAL PORTS AUTHORITY			
TITLE	NAME	SIGN	DATE
DRAWN	S.DLAMINI		29 08 24
CHECKED	L.MADALANE		29 08 24
DESIGNED	S.DLAMINI		29 08 24
CHECKED	L.MADALANE		29 08 24
PR. ENG. / PR. TECH./PR. ARCH			
NAME			DATE
SIGNATURE			29 08 24
REG. NUMBER			200570067
SCALE			AS SHOWN

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KLUBER ROAD
PORT OF NGQURA
Gqeberha

PROJECT / AREA / ASSET / SUBJECT/DRAWING TITLE

PORT OF PORT ELIZABETH
DOM PEDRO QUAY REFURBISHMENT
LIGHTING LAYOUT

PAPER SIZE	TRANSNET DRV. NO.	REV
A0		
PROJECT DRV. NO.		REV
XPE0017-1-000-E-LA-0002-01		01