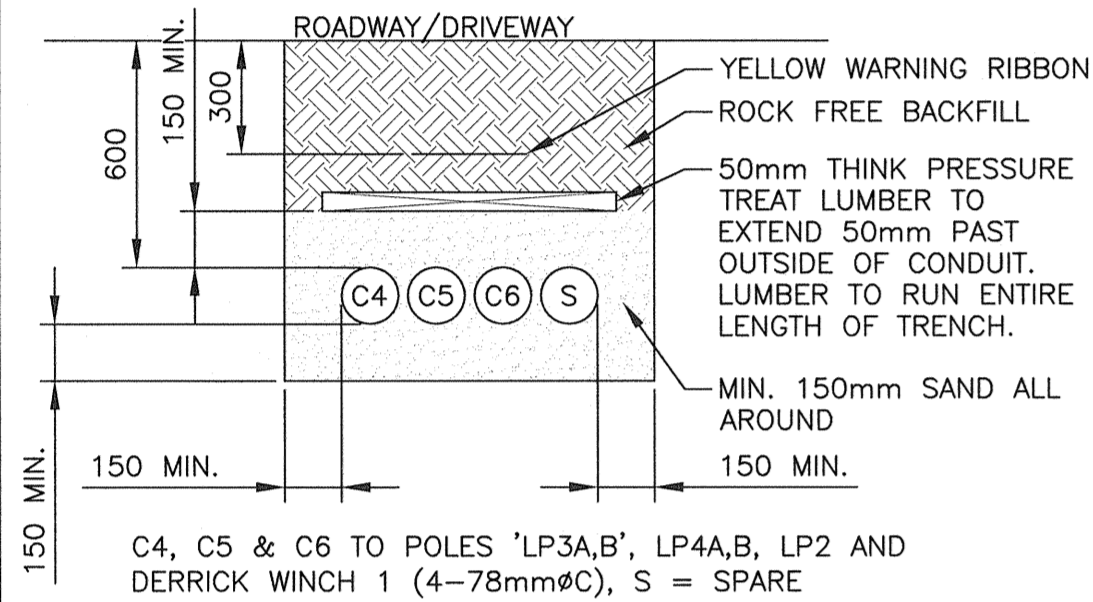
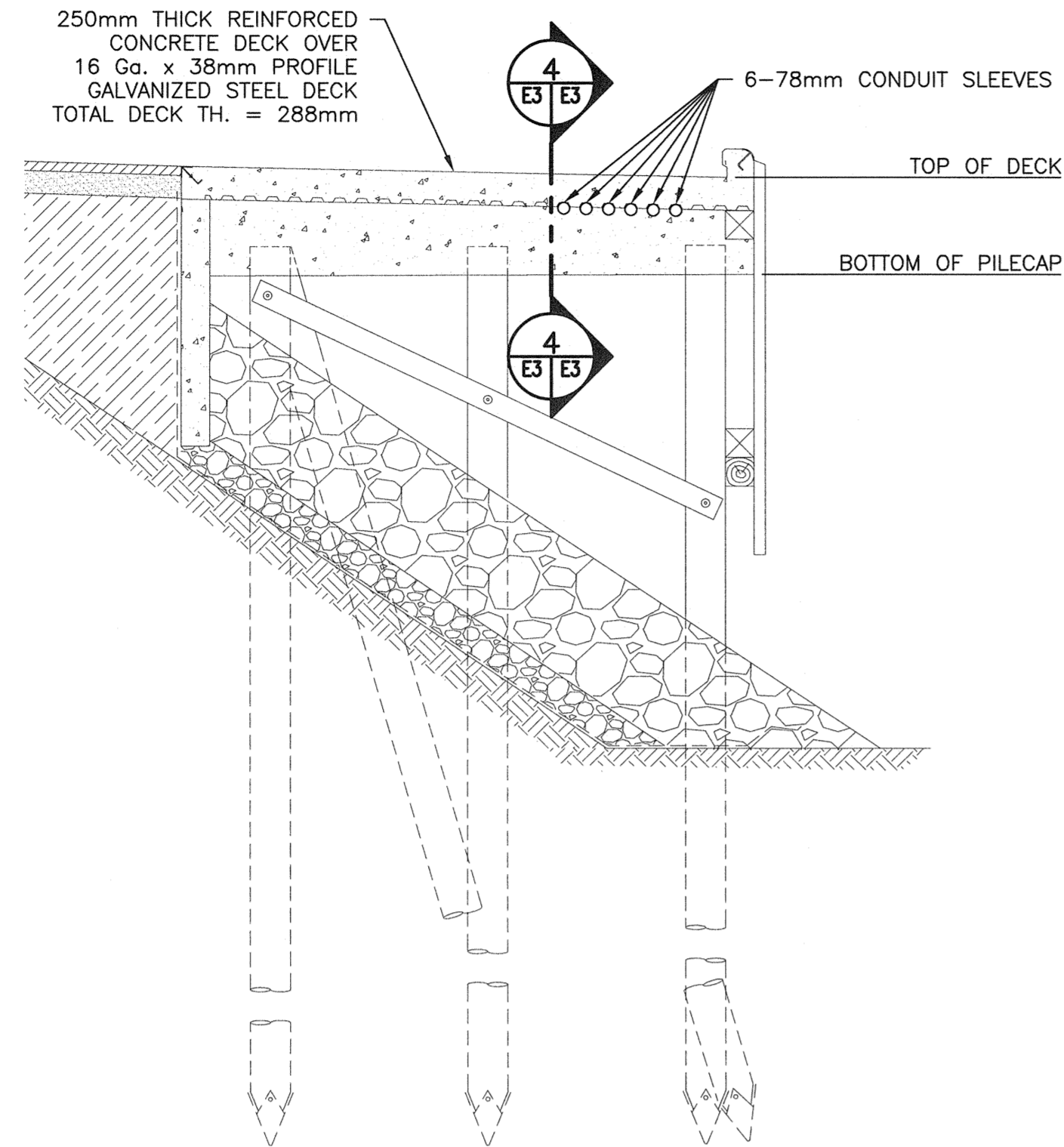


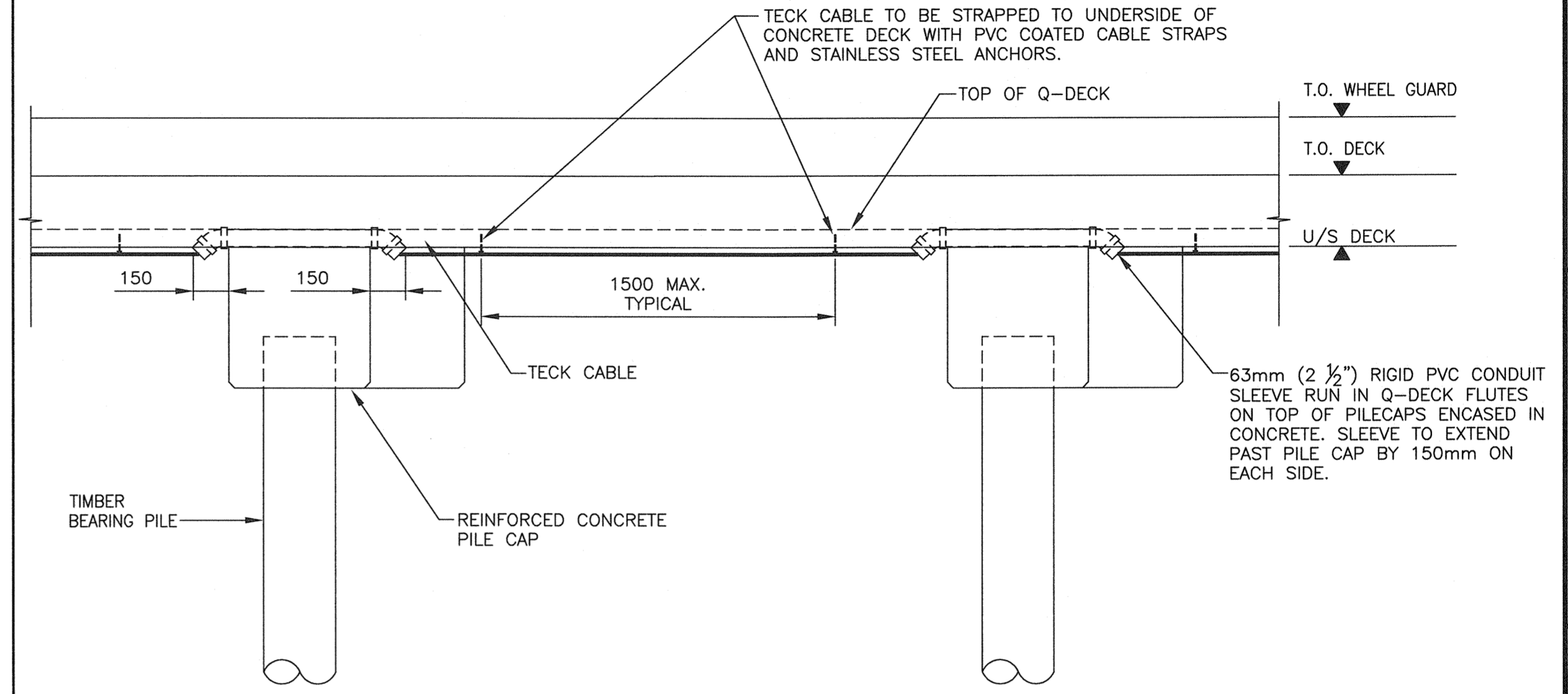
TRENCH DETAIL 1
SCALE : N.T.S.



TRENCH DETAIL 2
SCALE : N.T.S.



NEW WHARF SECTION FOR ELECTRICAL CONDUIT 3
SCALE : N.T.S.



NOTE:
1. ALL DIMENSIONS ARE IN MILLIMETERS.

ELEVATION - CONDUIT SLEEVE AND TECK CABLE INSTALLATION 4
SCALE : N.T.S.

EXISTING PARAMETERS:
HOLOPHANE MONGOOSE G250HP12LNRVBZCC 250W HPS, MOUNTED AT 9.15M
LIGHT LEVELS: 34.55 LUX AT DOCK, 20.91 LUX IN GRAVEL AREA

NEW TARGET: 20-25 LUX, AVG/MIN 3.0 OR LESS

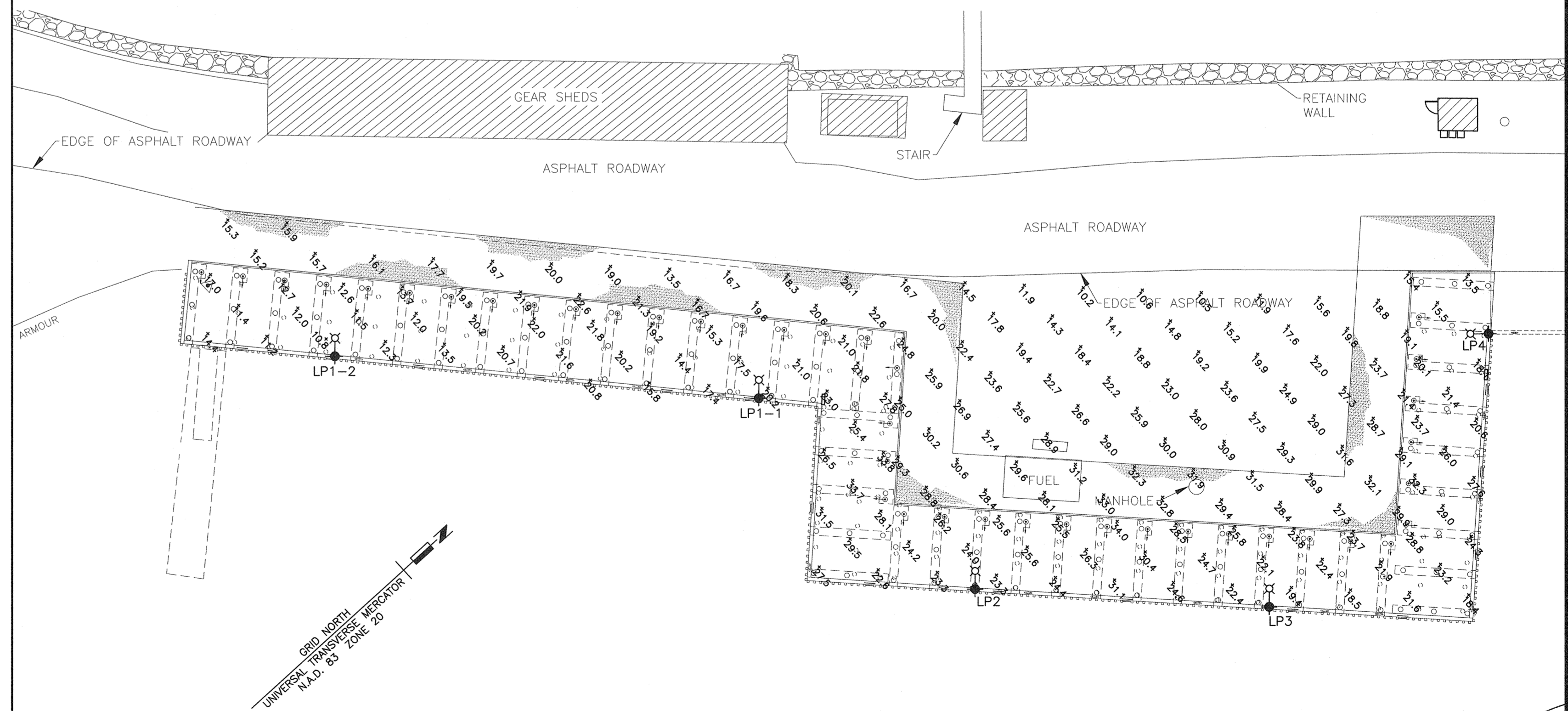
NEW LUMINAIRES:
HOLOPHANE MONGOOSE LED, MGLED-4-4-5K-AX-A-L-H-G (TYPE 3 MEDIUM ROADWAY) C/W 900mm ALUMINIUM ARM (1800mm FOR 2 UNITS), MOUNTED AT 9500mm

ARMS:
HAPCO ALUMINIUM ARM, CAT# 81-001 (900mm)
HAPCO ALUMINIUM ARM, CAT# 81-004 (1800mm)

LUMINAIRE SCHEDULE				
SYMBOL	QUANTITY	LABEL	ARRANGEMENT	ARM
—X	3	MGLED_LED_4_4_5K_AX_M_L_X_X	SINGLE	0.9
—X	2	MGLED_LED_4_4_5K_AX_M_L_X_X_1	SINGLE	1.8

LUMINAIRE LOCATION SUMMARY				
LUMINAIRE NO.	LABEL	Z	ORIENT	TILT
LP4	MGLED_LED_4_4_5K_AX_M_L_X_X	9.5m	225.642	0
LP3	MGLED_LED_4_4_5K_AX_M_L_X_X_1	9.5m	133.961	0
LP2	MGLED_LED_4_4_5K_AX_M_L_X_X_1	9.5m	132.809	0
LP1-1	MGLED_LED_4_4_5K_AX_M_L_X_X	9.5m	133.025	0
LP1-2	MGLED_LED_4_4_5K_AX_M_L_X_X	9.5m	132.217	0

CALCULATION SUMMARY						
LABEL	CALCULATION TYPE	UNITS	AVERAGE	MAXIMUM	MINIMUM	AVERAGE MINIMUM
DOCK TOP	ILLUMINANCE	LUX	22.40	34.0	10.8	2.07
DRIVEWAY TOP	ILLUMINANCE	LUX	22.23	33.0	10.2	2.18



LIGHTING DESIGN 5
SCALE: 1:250