



**GENERAL ARRANGEMENT PLAN : CHAINAGE +0.00m TO +400.00m**  
Scale 1:100 @ A0

- NOTES**
- See also SP UK Design Report E14530DR01 & SPUK Method Statement.
  - Due to the Sand Derivatives, it is proposed to 'Pre-Auger' the soils prior to installation.
  - See also L & M Eng. Ltd. drg. 14-116-DRG-DENG-002 rev.03. For Sections & Elevations - See SPUK Sheets noted on Section Marks.
  - Setting out by others, NB/ Standard installation tolerances to be accounted for - given area from Theoretical 'Change 0.00m' @ SOP-1 (E33028523, N432503775) Pipe Trench Centrelines on existing ramp).
  - Sheet Piles detailed are the minimum requirements. Alternative but similar sections may be supplied and installed subject to availability. Sheet Pile Wall changes, plan lengths and conform dimensions shown are indicative only and are subject to rolling and installation tolerances.
  - The Sheet Piles for the 'Safe-Haven' / Working Platform, are to be installed from a suitable pre-prepared and maintained Sand Fill Piling Platform @ +3.50mOD.
  - Sheet Piles for the 'Tidal Pipe Trench' are to be installed from the existing Beach Levels as and when tidal levels permit access.
  - NB/ See also Table for 'Tide Levels to Chart Datum' (mCD).
  - Type E22 Interlock profiles to be welded to form corners at 'A', 'B', 'C', 'D', 'L', 'R', and also at each side of both sets of Gate Piles.
  - Due to the Safe-Haven walling outstands, the Sheet Piles at Junctions 'B' & 'K' are either to be installed as close as possible to the Safe-Haven Sheet Piles. Gaps to be plated or sealed as required during excavation, or a temporary slot is to be cut into the walling to facilitate the welding of a pile interlock section. Walling to be made good.

**WALINGS:-**  
TWIN 380x100 PFCs @ +4.00mOD - Max. Span = 3600mm  
SEE SEPARATE DETAILS - SPUK SHL W/3.

**THE ROADS:-**  
GEWIR THREAUDBAR - 50mm DIA.  
@ +4.00mOD - GW COUPLERS, END PLATES  
ETC. BARS PLACED IN 150mm DIA PVC  
SETTLEMENT DUCTS.  
SEE SEPARATE DETAILS - SPUK SHL W/3.

**TOTAL PIPE PULL TRENCH (T/P to R):-**  
APPROX. 603 No. PILES = 361800  
GU23 (355) x 12.00m LONG - INSTALLED TO MAX. HEAD LEVELS GIVEN ON SPUK DRG. E14530/GA02. HOWEVER, PILES SHOULD BE INSTALLED TO THE MINIMUM ATTAINABLE HEAD LEVELS DEPENDING UPON ACTUAL BEACH LEVELS.

**ANCHOR PILES (PIPE PULL):-**  
18 No. Piles x min. 6.00m  
CH +4.47mOD

**WINGS WALLS (L, L' to W, & R' to S):-**  
APPROX. 19 No. PILES PER SIDE = 11400  
GU23 (355)  
PILES INSTALLED TO 0.5m ABOVE BEACH  
BEACH LEVELS (APPROX. -3.40mOD).

**PIPE TRENCH :- 'H', 'J', 'K' & 'N', 'P', 'Q' :-**  
ALL PILES - GU23 (355) x 12.00m LONG INSTALLED TO MAXIMUM HEAD LEVELS AS SHOWN.

**ROCK ARMOUR TO BE REMOVED  
PRIOR TO SHEET PILE INSTALLATION.  
H TO J & N TO P.**

**LOCALISED TEMPORARY PROPPING  
@ +0.00mOD - SEE SEPARATE  
DETAILS.**

**FOR CONSTRUCTION**

REF	CDM (2007) - RESIDUAL RISKS
01	Soil Strength / Stable Levels different to Surrounding Allowances Sheet.
02	Construction above the sheet pile lines.
03	Excessive Surface Loading / Allowance in 4.0m wide strip, commencing 1.50m from Excavation / Accidental Overdig / Spill / Allowance in Design.
04	Storm Damage.
05	Ground Water Levels > Allowance.
07	Disproportion / Imposition of passive bracing.

CDM (2007) - RESIDUAL RISKS	mod (Tide Tables)
H.A.T.	+5.00mOD
M.H.W.S.	+4.00mOD
M.H.W.N.	+2.10mOD
O.D.N.	0.00mOD
M.L.W.N.	-2.10mOD
M.L.W.S.	-3.90mOD
L.A.T.	-4.90mOD

Chart Datum (CD) = -4.90mOD

**FOR CONSTRUCTION**

**LAND & MARINE LTD.**

**HARROWSIDE OUTFALL.  
BLACKPOOL.**

**SHEET PILING (UK) LTD**

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