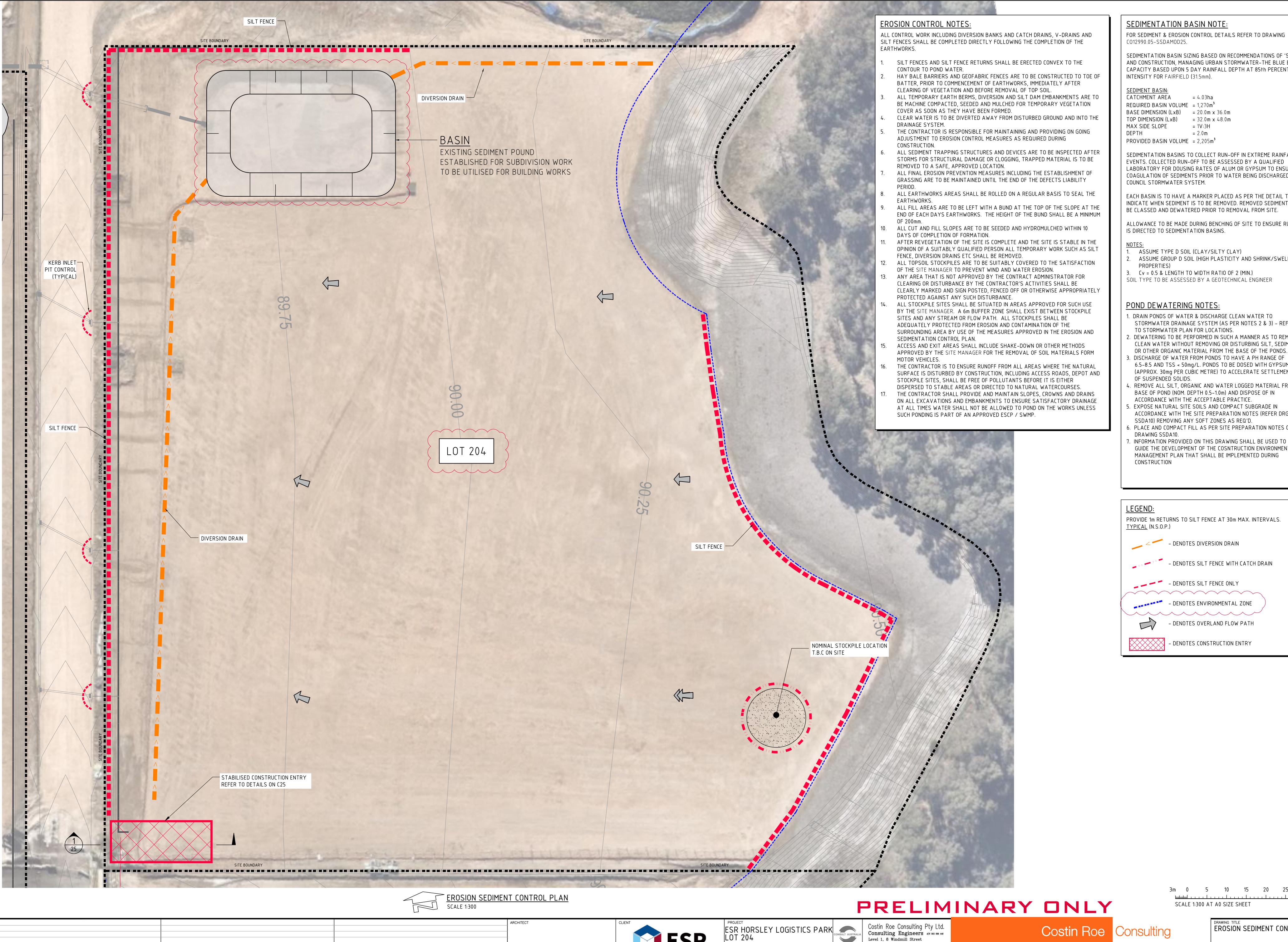


8.6 Erosion & Sediment Control Plan

The risks and mitigation measures for sediment and erosion controls have been outlined in section 5.2.5.

Further to this, we will be implementing sediment and erosion controls in accordance with the Sediment and Erosion Management Plan and the NSW Government "Blue Book" ["Managing Urban Stormwater | Soils and Construction_ Vol.1 (March 2004)"].

Please refer below to the site sediment and erosion control plan throughout the construction phase of the works.



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20.08.21

SEDIMENTATION BASIN NOTE:

FOR SEDIMENT & EROSION CONTROL DETAILS REFER TO DRAWING

CO12990.05-SSDAMOD25. SEDIMENTATION BASIN SIZING BASED ON RECOMMENDATIONS OF 'SOILS

AND CONSTRUCTION, MANAGING URBAN STORMWATER-THE BLUE BOOK' CAPACITY BASED UPON 5 DAY RAINFALL DEPTH AT 85th PERCENTILE INTENSITY FOR FAIRFIELD (31.5mm).

SEDIMENT BASIN:

CATCHMENT AREA = 4.03ha REQUIRED BASIN VOLUME = 1,270m³ BASE DIMENSION (LxB) = $20.0 \text{m} \times 36.0 \text{m}$ TOP DIMENSION (LxB) = $32.0 \text{m} \times 48.0 \text{m}$

MAX SIDE SLOPE = 1V:3H DEPTH PROVIDED BASIN VOLUME = 2,205m³

SEDIMENTATION BASINS TO COLLECT RUN-OFF IN EXTREME RAINFALL EVENTS. COLLECTED RUN-OFF TO BE ASSESSED BY A QUALIFIED LABORATORY FOR DOUSING RATES OF ALUM OR GYPSUM TO ENSURE COAGULATION OF SEDIMENTS PRIOR TO WATER BEING DISCHARGED TO COUNCIL STORMWATER SYSTEM.

EACH BASIN IS TO HAVE A MARKER PLACED AS PER THE DETAIL TO INDICATE WHEN SEDIMENT IS TO BE REMOVED. REMOVED SEDIMENT IS TO BE CLASSED AND DEWATERED PRIOR TO REMOVAL FROM SITE.

ALLOWANCE TO BE MADE DURING BENCHING OF SITE TO ENSURE RUN-OFF IS DIRECTED TO SEDIMENTATION BASINS.

ASSUME TYPE D SOIL (CLAY/SILTY CLAY)

- 2. ASSUME GROUP D SOIL (HIGH PLASTICITY AND SHRINK/SWELL PROPERTIES)
- 3. Cv = 0.5 & LENGTH TO WIDTH RATIO OF 2 (MIN.)
- SOIL TYPE TO BE ASSESSED BY A GEOTECHNICAL ENGINEER

POND DEWATERING NOTES:

- . DRAIN PONDS OF WATER & DISCHARGE CLEAN WATER TO STORMWATER DRAINAGE SYSTEM (AS PER NOTES 2 & 3) - REFER TO STORMWATER PLAN FOR LOCATIONS.
- DEWATERING TO BE PERFORMED IN SUCH A MANNER AS TO REMOVE CLEAN WATER WITHOUT REMOVING OR DISTURBING SILT, SEDIMENT OR OTHER ORGANIC MATERIAL FROM THE BASE OF THE PONDS.
- 6.5-8.5 AND TSS < 50mg/L. PONDS TO BE DOSED WITH GYPSUM (APPROX. 30mg PER CUBIC METRE) TO ACCELERATE SETTLEMENT OF SUSPENDED SOLIDS. REMOVE ALL SILT, ORGANIC AND WATER LOGGED MATERIAL FROM
- BASE OF POND (NOM. DEPTH 0.5-1.0m) AND DISPOSE OF IN ACCORDANCE WITH THE ACCEPTABLE PRACTICE. . EXPOSE NATURAL SITE SOILS AND COMPACT SUBGRADE IN
- ACCORDANCE WITH THE SITE PREPARATION NOTES (REFER DRG. SSDA10) REMOVING ANY SOFT ZONES AS REQ'D.
- . PLACE AND COMPACT FILL AS PER SITE PREPARATION NOTES ON DRAWING SSDA10.
- INFORMATION PROVIDED ON THIS DRAWING SHALL BE USED TO GUIDE THE DEVELOPMENT OF THE COSNTRUCTION ENVIRONMENTAL MANAGEMENT PLAN THAT SHALL BE IMPLEMENTED DURING CONSTRUCTION

LEGEND:

PROVIDE 1m RETURNS TO SILT FENCE AT 30m MAX. INTERVALS. TYPICAL (N.S.O.P.)

- DENOTES DIVERSION DRAIN

- DENOTES SILT FENCE WITH CATCH DRAIN

- DENOTES SILT FENCE ONLY - DENOTES ENVIRONMENTAL ZONE

- DENOTES OVERLAND FLOW PATH

- DENOTES CONSTRUCTION ENTRY

SCALE 1:300 AT A0 SIZE SHEET

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EROSION SEDIMENT CONTROL PLAN