

Appendix H Erosion and Sediment Control & Details Plans

Construction Environmental Management Plan

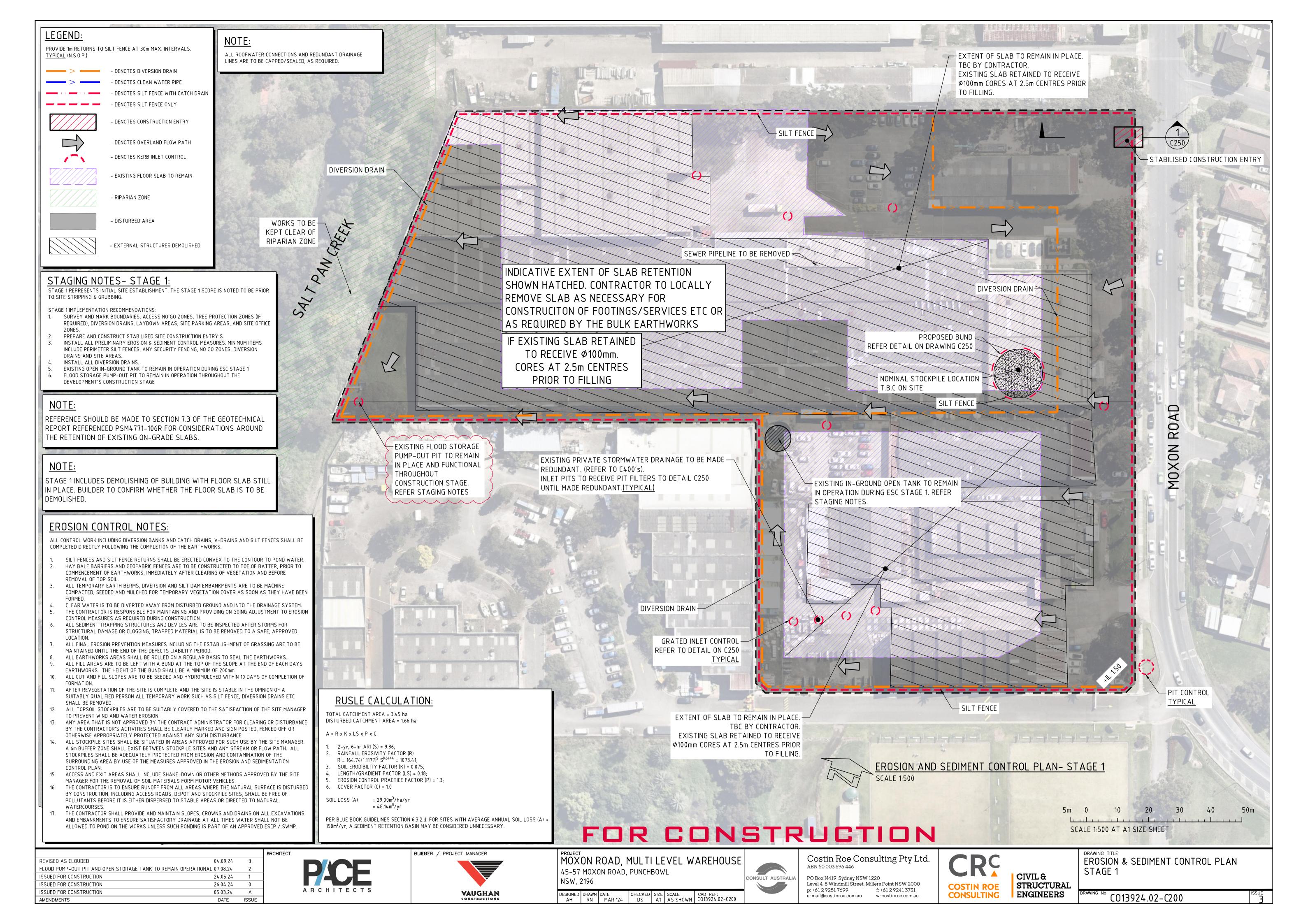
SSD-55266460 - 45-47 Moxon Road, Punchbowl, NSW

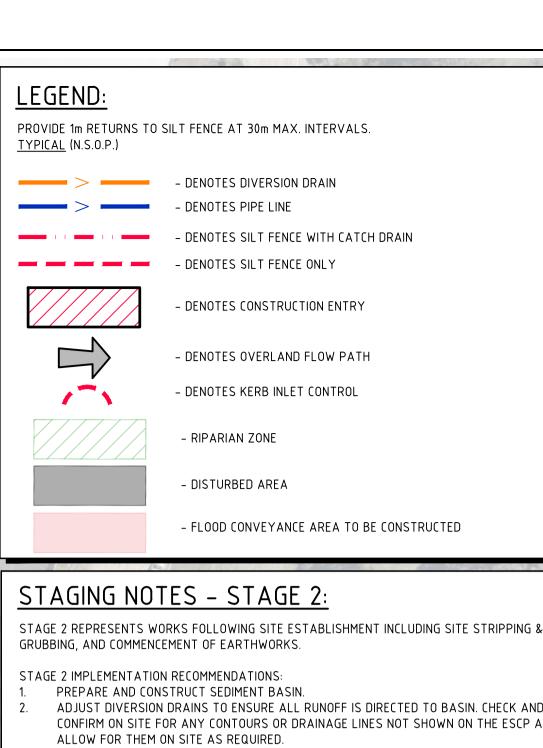
Vaughan Constructions Pty Ltd

SLR Project No.: 630.031503.00001

25 September 2024







- ADJUST DIVERSION DRAINS TO ENSURE ALL RUNOFF IS DIRECTED TO BASIN. CHECK AND CONFIRM ON SITE FOR ANY CONTOURS OR DRAINAGE LINES NOT SHOWN ON THE ESCP AND
- ESTABLISH SITE COMPOUND INCLUDING OFFICE AND PARKING AREAS. ENSURE ESCP MEASURES SHOWN ON PLAN ARE INSTALLED, AND EXISTING MEASURES ARE CHECKED AND MAINTAINED AS REQUIRED.
- COMMENCE SITE STRIPPING (LIMIT TO AREA OF WORKS AS NECESSARY TO COMPLETE THE WORKS) AND CUT TO FILL EARTHWORK.
- MONITOR AND INSPECT MEASURES IN ACCORDANCE WITH THE SITE INSPECTION CHECK SHEETS AND SOIL AND WATER MANAGEMENT PLAN INCLUDED IN THE SITE CEMP.
- ALL CONTROLS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD, AND PROGRESSIVELY ADJUSTED TO SUIT SITE CONDITIONS IN ACCORDANCE WITH THE CEMP THE SOIL AND WATER MANAGEMENT PLAN (SUBPLAN OF THE CEMP) AND PER BLUE BOOK. WHITE BOOK REQUIREMENTS.
- FLOOD STORAGE PUMP-OUT PIT TO REMAIN IN OPERATION THROUGHOUT THE DEVELOPMENT'S CONSTRUCTION STAGE
- NEW GPT INSTALLED TO BE BLOCKED AND NOT UTILISED FOR ESC MEASURES DURING

NOTE:

REFERENCE SHOULD BE MADE TO SECTION 7.3 OF THE GEOTECHNICAL REPORT REFERENCED PSM4771-106R FOR CONSIDERATIONS AROUND THE RETENTION OF EXISTING ON-GRADE SLABS.

NOTE:

ISSUED FOR CONSTRUCTION

AMENDMENTS

ALL ROOFWATER CONNECTIONS AND REDUNDANT DRAINAGE LINES ARE TO BE CAPPED/SEALED, AS REQUIRED.

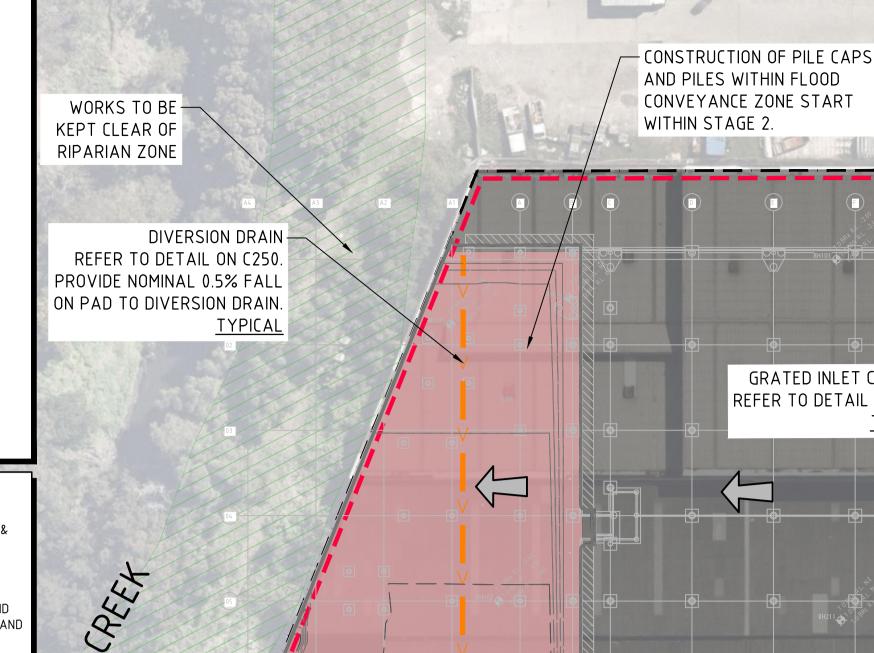
EROSION CONTROL NOTES:

ALL CONTROL WORK INCLUDING DIVERSION BANKS AND CATCH DRAINS, V-DRAINS AND SILT FENCES SHALL BE COMPLETED DIRECTLY FOLLOWING THE COMPLETION OF THE EARTHWORKS.

- SILT FENCES AND SILT FENCE RETURNS SHALL BE ERECTED CONVEX TO THE CONTOUR TO POND WATER. HAY BALE BARRIERS AND GEOFABRIC FENCES ARE TO BE CONSTRUCTED TO TOE OF BATTER, PRIOR TO COMMENCEMENT OF EARTHWORKS, IMMEDIATELY AFTER CLEARING OF VEGETATION AND BEFORE REMOVAL OF TOP SOIL.
- ALL TEMPORARY EARTH BERMS, DIVERSION AND SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED AND MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN
- CLEAR WATER IS TO BE DIVERTED AWAY FROM DISTURBED GROUND AND INTO THE DRAINAGE SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROVIDING ON GOING ADJUSTMENT TO EROSION
- CONTROL MEASURES AS REQUIRED DURING CONSTRUCTION. ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING, TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE, APPROVED
- ALL FINAL EROSION PREVENTION MEASURES INCLUDING THE ESTABLISHMENT OF GRASSING ARE TO BE MAINTAINED UNTIL THE END OF THE DEFECTS LIABILITY PERIOD.
- ALL EARTHWORKS AREAS SHALL BE ROLLED ON A REGULAR BASIS TO SEAL THE EARTHWORKS. ALL FILL AREAS ARE TO BE LEFT WITH A BUND AT THE TOP OF THE SLOPE AT THE END OF EACH DAYS EARTHWORKS. THE HEIGHT OF THE BUND SHALL BE A MINIMUM OF 200mm.
- ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND HYDROMULCHED WITHIN 10 DAYS OF COMPLETION OF FORMATION.
- AFTER REVEGETATION OF THE SITE IS COMPLETE AND THE SITE IS STABLE IN THE OPINION OF A SUITABLY QUALIFIED PERSON ALL TEMPORARY WORK SUCH AS SILT FENCE, DIVERSION DRAINS ETC SHALL BE REMOVED.
- ALL TOPSOIL STOCKPILES ARE TO BE SUITABLY COVERED TO THE SATISFACTION OF THE SITE MANAGER TO PREVENT WIND AND WATER EROSION. ANY AREA THAT IS NOT APPROVED BY THE CONTRACT ADMINISTRATOR FOR CLEARING OR DISTURBANCE
- BY THE CONTRACTOR'S ACTIVITIES SHALL BE CLEARLY MARKED AND SIGN POSTED, FENCED OFF OR OTHERWISE APPROPRIATELY PROTECTED AGAINST ANY SUCH DISTURBANCE. ALL STOCKPILE SITES SHALL BE SITUATED IN AREAS APPROVED FOR SUCH USE BY THE SITE MANAGER. A 6m BUFFER ZONE SHALL EXIST BETWEEN STOCKPILE SITES AND ANY STREAM OR FLOW PATH. ALL STOCKPILES SHALL BE ADEQUATELY PROTECTED FROM EROSION AND CONTAMINATION OF THE

SURROUNDING AREA BY USE OF THE MEASURES APPROVED IN THE EROSION AND SEDIMENTATION

- CONTROL PLAN. ACCESS AND EXIT AREAS SHALL INCLUDE SHAKE-DOWN OR OTHER METHODS APPROVED BY THE SITE MANAGER FOR THE REMOVAL OF SOIL MATERIALS FORM MOTOR VEHICLES.
- THE CONTRACTOR IS TO ENSURE RUNOFF FROM ALL AREAS WHERE THE NATURAL SURFACE IS DISTURBED BY CONSTRUCTION, INCLUDING ACCESS ROADS, DEPOT AND STOCKPILE SITES, SHALL BE FREE OF POLLUTANTS BEFORE IT IS EITHER DISPERSED TO STABLE AREAS OR DIRECTED TO NATURAL
- WATERCOURSES. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SLOPES, CROWNS AND DRAINS ON ALL EXCAVATIONS AND EMBANKMENTS TO ENSURE SATISFACTORY DRAINAGE AT ALL TIMES WATER SHALL NOT BE ALLOWED TO POND ON THE WORKS UNLESS SUCH PONDING IS PART OF AN APPROVED ESCP / SWMP.



STAGE 2 - EXISTING BUILDING DEMOLISHED. EARTHWORKS TO BE STARTED. (TBC BY CONTRACTOR)

> SEDIMENT BASIN 1 REFER TO NOTES.

GRATED INLET CONTROL

TYPICAL

REFER TO DETAIL ON C250

EXISTING PRIVATE STORMWATER DRAINAGE TO BE MADE-

INLET PITS TO RECEIVE PIT FILTERS TO DETAIL C250

- SILT FENCE ___

CONSTRUCTION OF PILE CAPS AND PILES IN LOCATION OF SEDIMEN BASIN TO BE COMPLETED LAST

CONSTRUCTION OF GPT UNIT TO START DURING STAGE 2.

GRATED INLET CONTROL

TYPICAL

REFER TO DETAIL ON C250

FLOOD STORAGE PUMP-OUT PIT TO REMAIN IN PLACE AND FUNCTIONAL THROUGHOUT CONSTRUCTION STAGE. REFER STAGING NOTES

SEDIMENT CONTROL BASIN NOTES:

FOR SEDIMENT & EROSION CONTROL DETAILS REFER TO DRAWING Co13924.02-C250.

SEDIMENTATION BASIN SIZING BASED ON RECOMMENDATIONS OF 'SOILS AND CONSTRUCTION, MANAGING URBAN STORMWATER-THE BLUE BOOK'.

SEDIMENT BASIN 1

CATCHMENT AREA = 3.45 haREQUIRED BASIN VOLUME = 713m^3

BASE DIMENSION (LxB) $= 25.0 \,\mathrm{m} \times 12.5 \,\mathrm{m}$ TOP DIMENSION (LxB) $= 34.0 \text{m} \times 21.5 \text{m}$ MAX SIDE SLOPE = 1V:3H

= 1.5m PROVIDED BASIN VOLUME = 760m³

COUNCIL STORMWATER SYSTEM.

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

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.

BUILDER / PROJECT MANAGER

- ASSUME TYPE D SOIL (CLAY/SILTY CLAY)
- ASSUME GROUP D SOIL (HIGH PLASTICITY AND SHRINK/SWELL
- Cv = 0.64 & LENGTH TO WIDTH RATIO OF 2 (MIN.) SOIL TYPE TO BE ASSESSED BY A GEOTECHNICAL ENGINEER

DIVERSION DRAIN

EROSION AND SEDIMENT CONTROL PLAN- STAGE 2

- SILT FENCE

DIVERSION DRAIN-

TYPICAL

REFER TO DETAIL ON C250.

PROVIDE NOMINAL 0.5% FALL

ON PAD TO DIVERSION DRAIN.

PROPOSED BUND

SILT FENCE

REFER DETAIL ON DRAWING C250

T.B.C ON SITE

NOMINAL STOCKPILE LOCATION

SCALE 1:500 AT A1 SIZE SHEET

DRAWING TITLE

FOR CONSTRUCTION

ARCHITECT 04.09.24 PUMP-OUT PIT TO REMAIN OPERATIONAL, GPT NOTES ADDED 07.08.24 ISSUED FOR CONSTRUCTION 01.08.24 ISSUED FOR CONSTRUCTION 26.04.24

05.03.24

DATE ISSUE





MOXON ROAD, MULTI LEVEL WAREHOUSE 45-57 MOXON ROAD, PUNCHBOWL NSW, 2196

DESIGNED DRAWN DATE CHECKED SIZE SCALE CAD REF:
AH RN MAR '24 DS A1 AS SHOWN C013924.02-C201

REDUNDANT. (REFER TO C400's).

UNTIL MADE REDUNDANT.(TYPICAL)



Costin Roe Consulting Pty Ltd. ABN 50 003 696 446

PO Box N419 Sydney NSW 1220 Level 4, 8 Windmill Street, Millers Point NSW 2000 p: +61 2 9251 7699 f: +61 2 9241 3731 e: mail@costinroe.com.au w: costinroe.com.au



CIVIL & STRUCTURAL **ENGINEERS**

EROSION & SEDIMENT CONTROL PLAN STAGE 2

CO13924.02-C201

AD

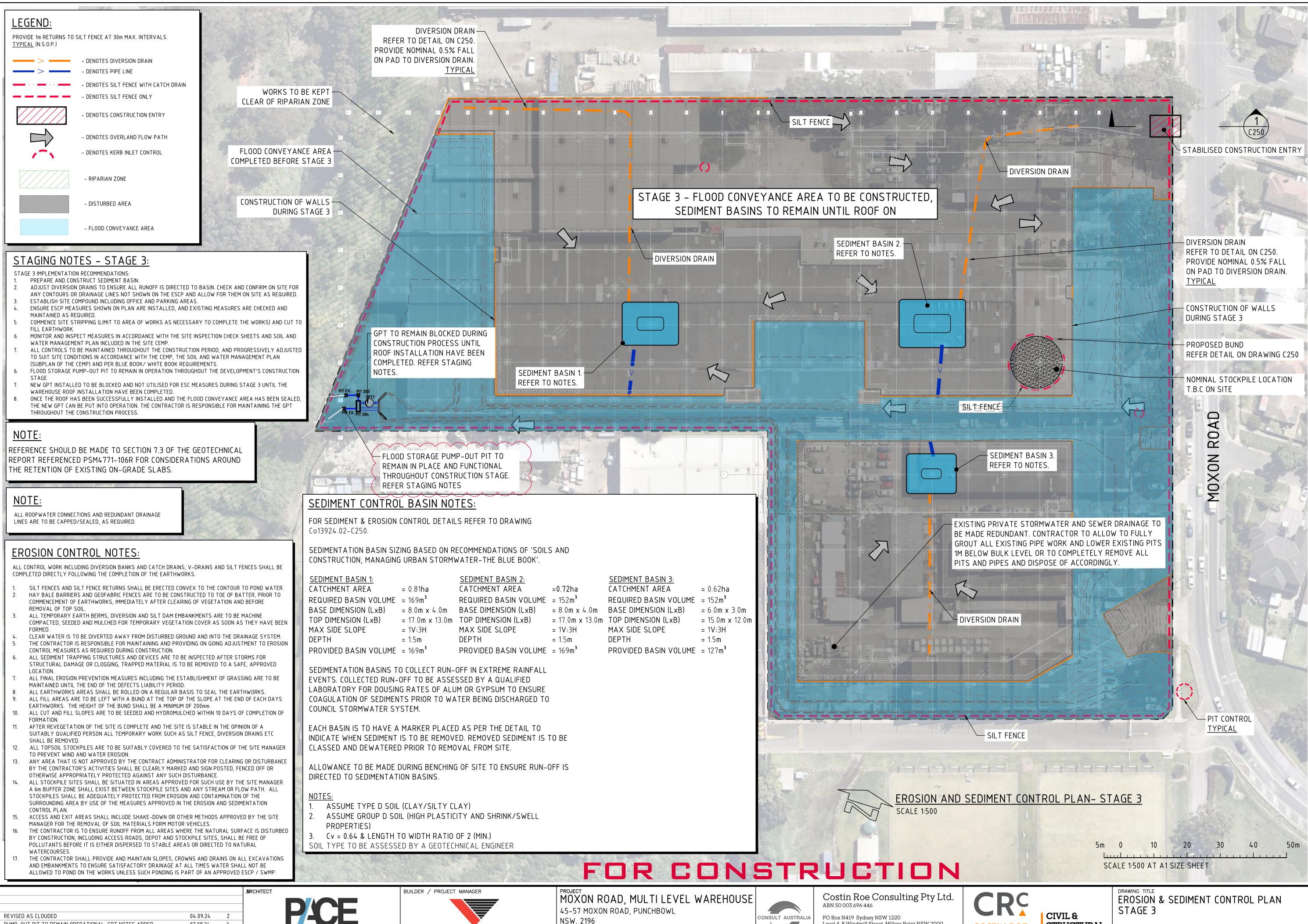
0 2

NO O

INLET PIT CONTROL

TYPICAL





PUMP-OUT PIT TO REMAIN OPERATIONAL, GPT NOTES ADDED 07.08.24 ISSUED FOR CONSTRUCTION 01.08.24 AMENDMENTS DATE ISSUE





NSW, 2196

DESIGNED DRAWN DATE CHECKED SIZE SCALE CAD REF:
AH RN MAR '24 DS A1 AS SHOWN C013924.02-C202

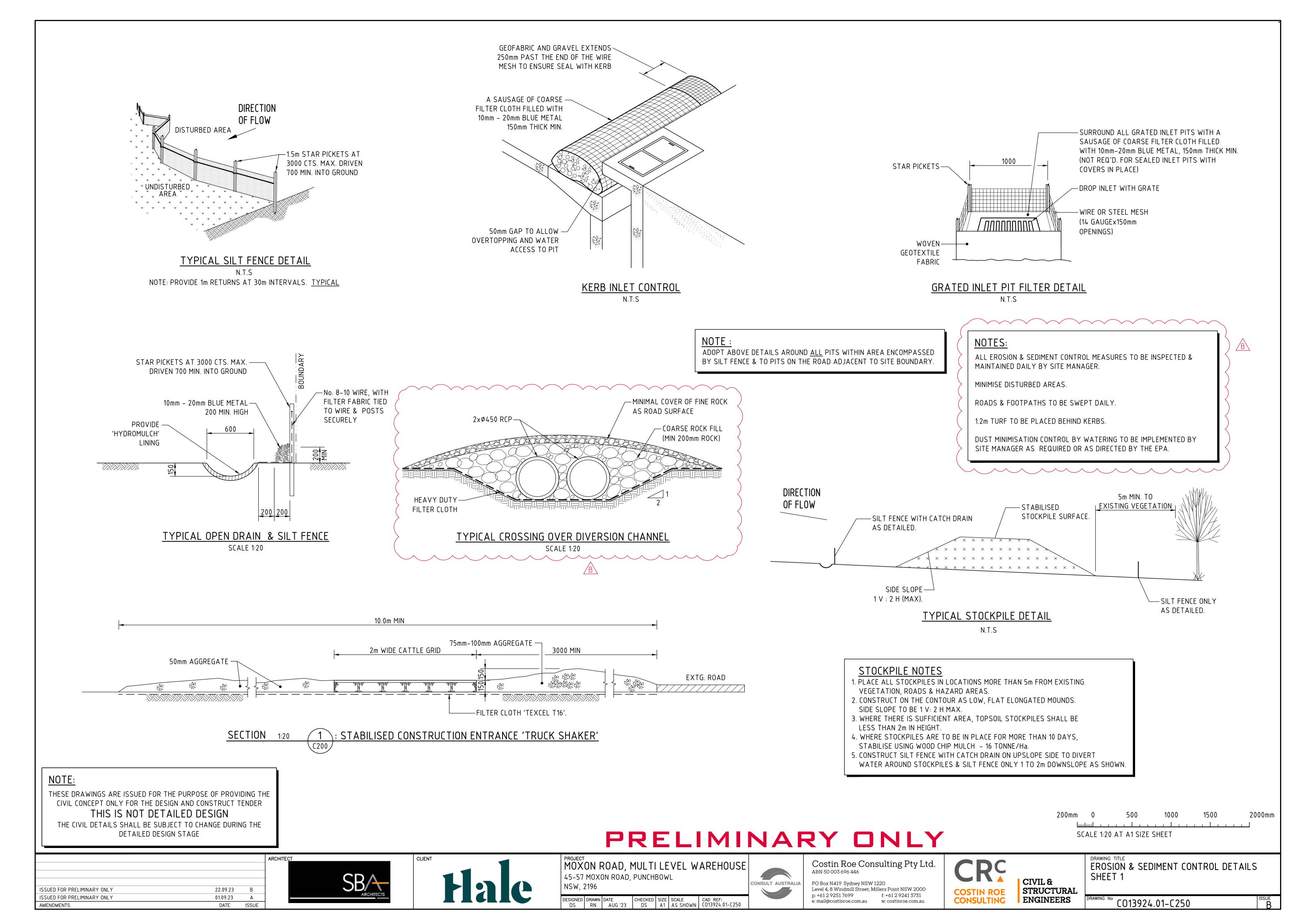


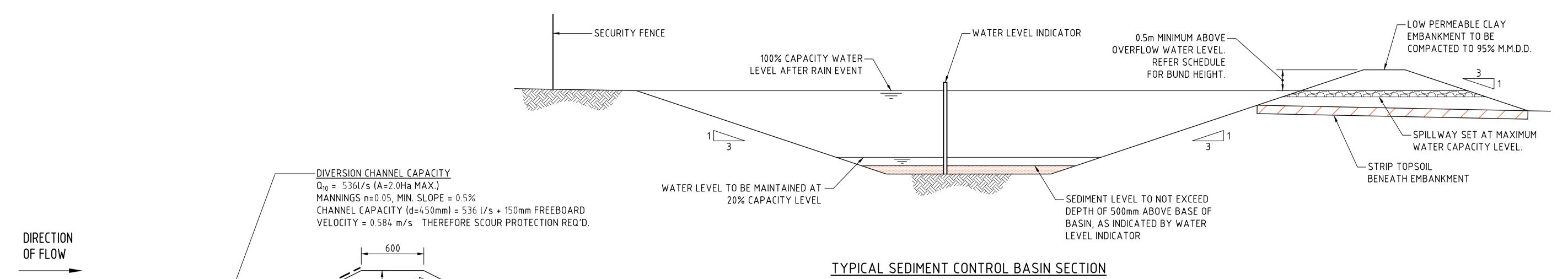
Level 4, 8 Windmill Street, Millers Point NSW 2000 p: +61 2 9251 7699 f: +61 2 9241 3731 e: mail@costinroe.com.au w: costinroe.com.au



STRUCTURAL ENGINEERS

CO13924.02-C202





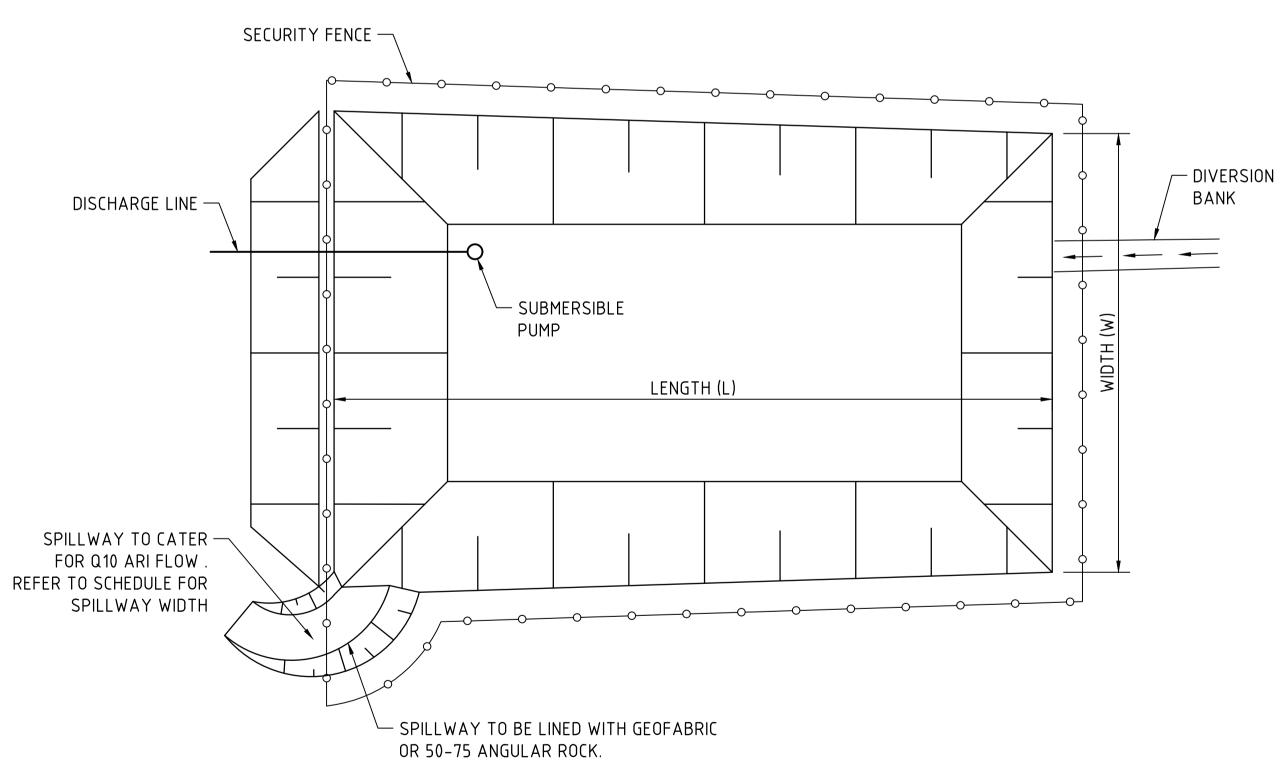
SCALE 1:50

SPECIFICATION. DIVERSION DRAIN SECTION SCALE 1:20

800

MAX. WATER LEVEL

1800

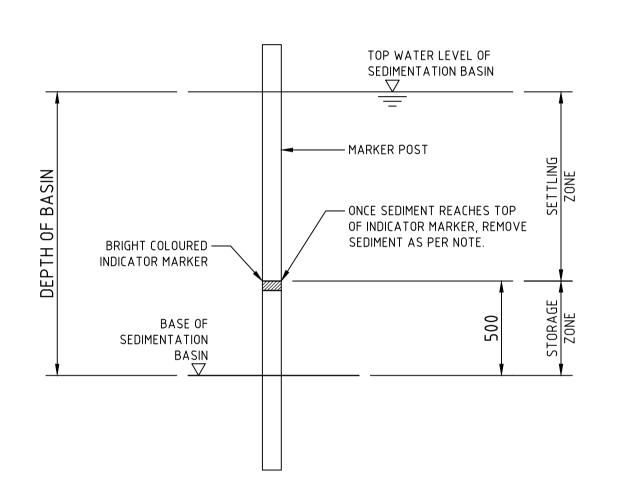


TEMPORARILY PROTECT THE SWALE FROM EROSION DURING CONSTRUCTION. INSTALL A 3000 WIDE SECTION

INSTALLED IN ACCORDANCE WITH MANUFACTURER'S

OF BIODEGRADABLE JUTE OPEN WEAVE MESH

TYPICAL SEDIMENT CONTROL POND PLAN SCALE 1:250



SEDIMENT STORAGE MARKER SCALE 1:20

SPILLWAY DETAIL & SCHEDULE									
CATCHMENT (Ha)	FLOW (m³/s)	WIDTH (mm)	FLOW DEPTH (mm)	ROCK SIZE (mm)	BUND HEIGHT ABOVE SPILLWAY (mm)				
0.20	0.14	1000	200	200	600				
0.5	0.2	2000	200	200	600				
1	0.3	2000	200	200	700				
2	0.6	4000	200	200	700				
5	1.4	5000	300	200	800				
10	2.8	8000	350	200	850				
20	5.5	14000	400	250	900				
40	11.0	20000	500	250	1000				

NOTE:

THESE DRAWINGS ARE ISSUED FOR THE PURPOSE OF PROVIDING THE CIVIL CONCEPT ONLY FOR THE DESIGN AND CONSTRUCT TENDER THIS IS NOT DETAILED DESIGN THE CIVIL DETAILS SHALL BE SUBJECT TO CHANGE DURING THE DETAILED DESIGN STAGE

200mm	0	500	1000	l	1500	2000mm
لسيا	<u> </u>					_
SC	ALE 1:20 A	AT A1 SIZE	SHEET			
500mm	0	1	2	3	4	5m
Lu			1			
SCALE 1:50 AT A1 SIZE SHEET						
2m	0	5 1	10	15	20	25m
<i>ح</i> ر است		AT A1 SIZE	L F SHFFT	<u> </u>		J
50	ALL 1.230	A 1 A 1 3 1 Z 1	L SHELL			

PRELIMINARY ONLY

ISSUED FOR PRELIMINARY ONLY	22.09.23	В	
ISSUED FOR PRELIMINARY ONLY	01.09.23	Α	
AMENICATOR	DATE	ICCLIE	





MOXON ROAD, MULTI LEVEL WAREHOUSE 45-57 MOXON ROAD, PUNCHBOWL NSW, 2196



Costin Roe Consulting Pty Ltd.
ABN 50 003 696 446

PO Box N419 Sydney NSW 1220 Level 4, 8 Windmill Street, Millers Point NSW 2000 p: +61 2 9251 7699 f: +61 2 9241 3731 e: mail@costinroe.com.au w: costinroe.com.au



CIVIL & STRUCTURAL **ENGINEERS**

EROSION & SEDIMENT CONTROL DETAILS SHEET 2

DESIGNED DRAWN DATE CHECKED SIZE SCALE CAD REF:
DS RN AUG '23 DS A1 AS SHOWN C013924.01-C251

CO13924.01-C251