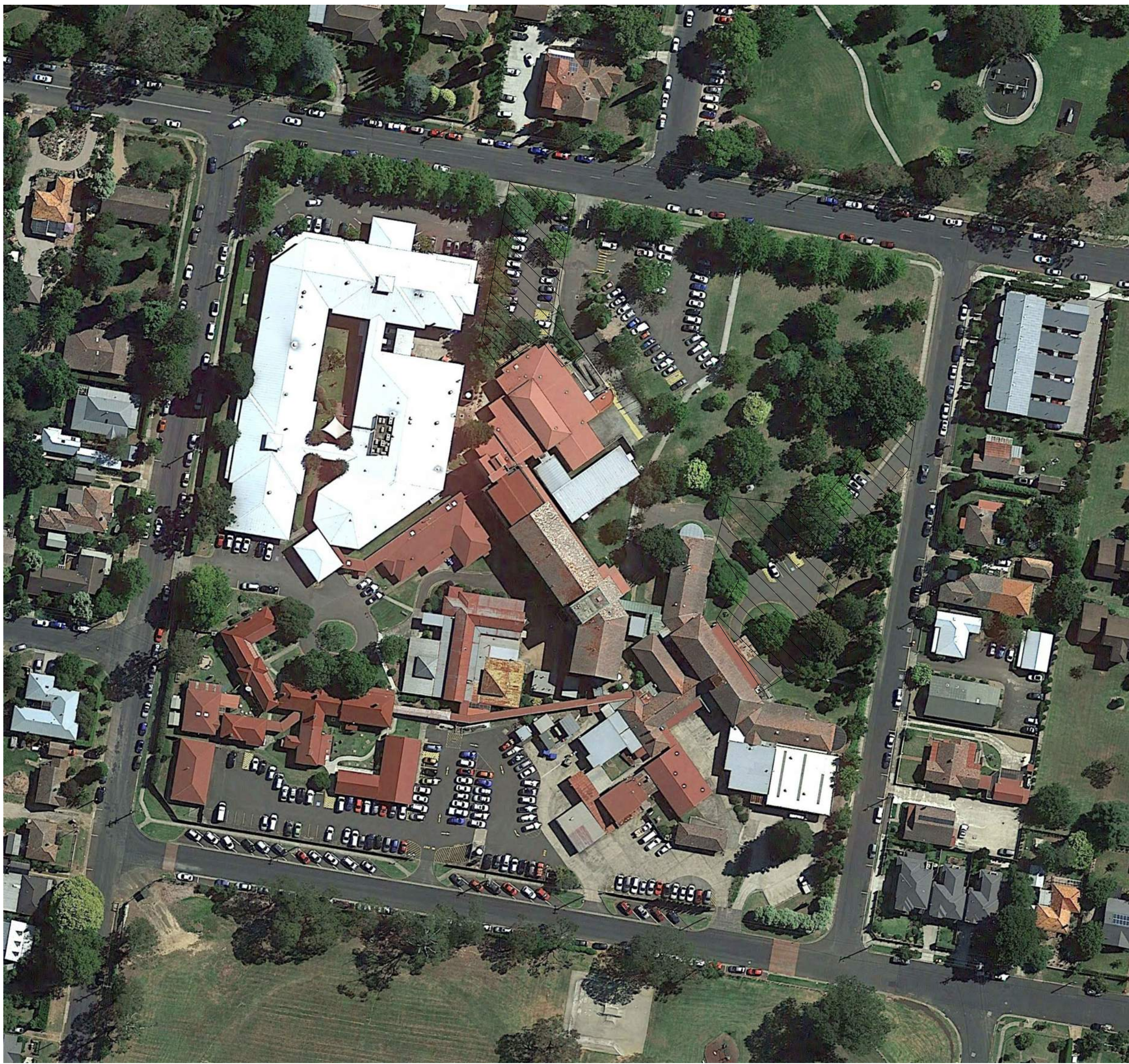


BOWRAL DISTRICT HOSPITAL REDEVELOPMENT

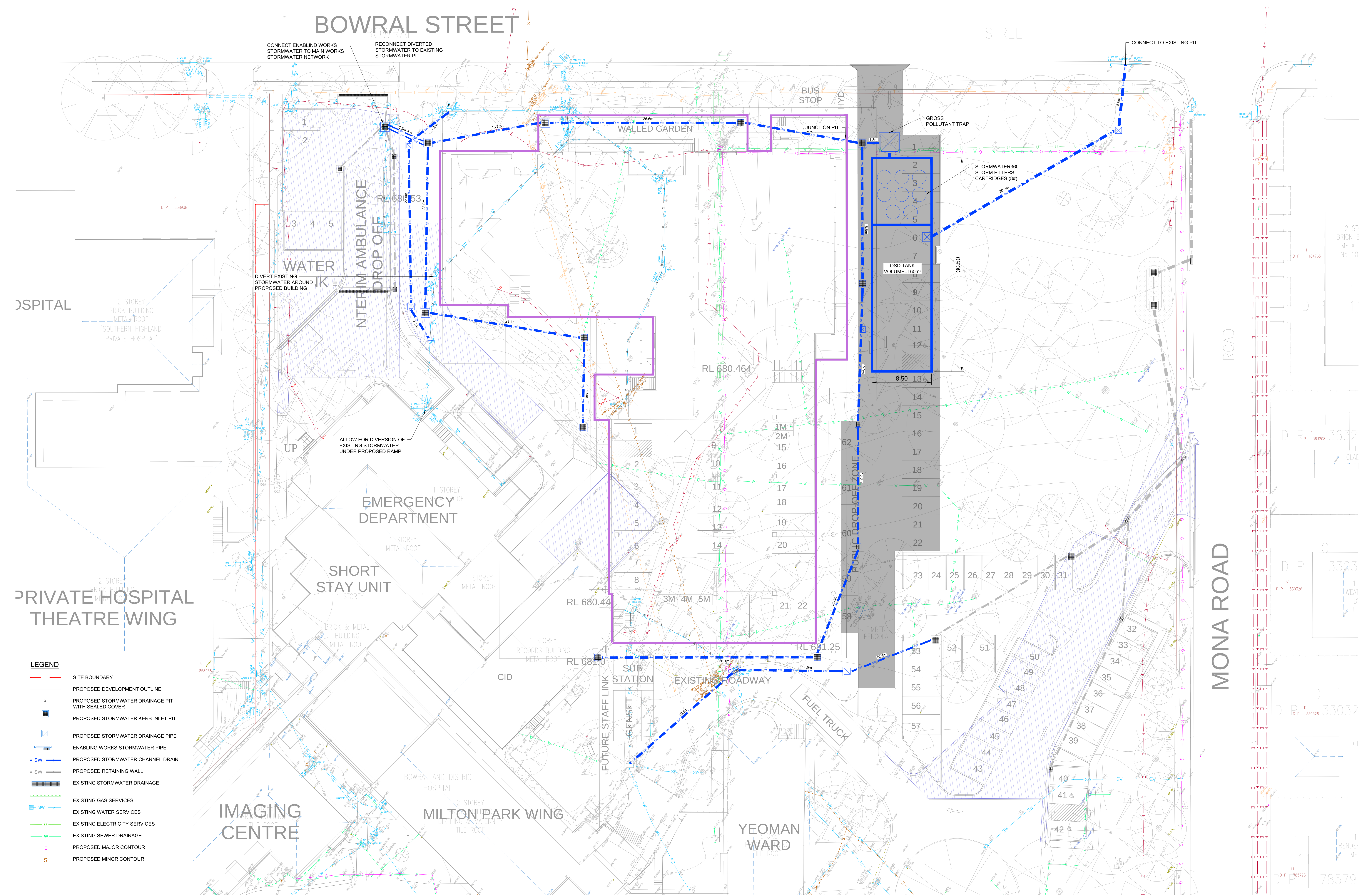
MAIN WORKS

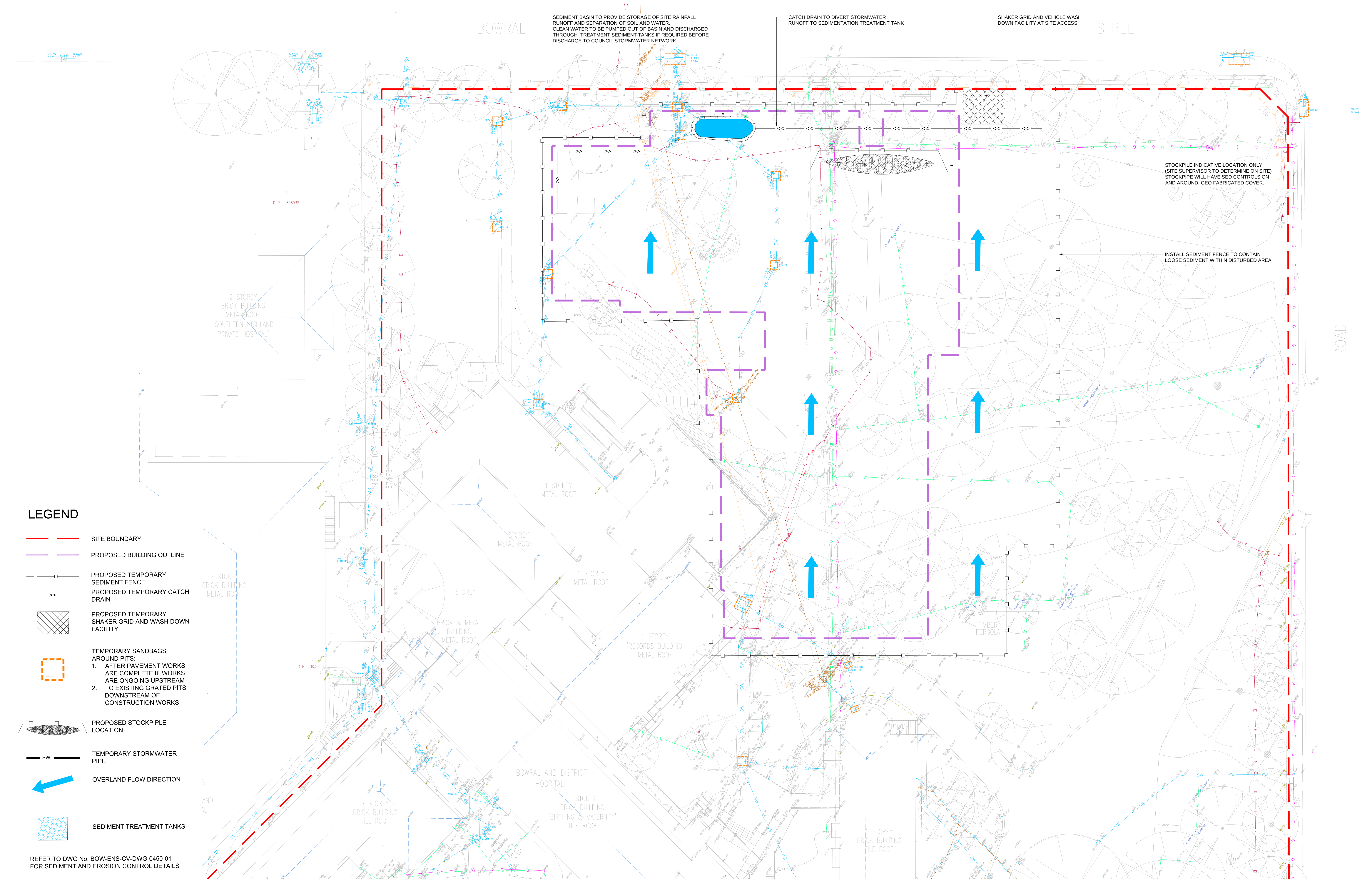
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CIVIL ENGINEERING DRAWING LIST:

BOW-ENS-CV-DWG-1000-01	COVER SHEET - DRAWING LIST
BOW-ENS-CV-DWG-1200-03	SITE WORKS & STORMWATER MANAGEMENT PLAN
BOW-ENS-CV-DWG-1400-01	SEDIMENT AND EROSION CONTROL PLAN - SHEET 1
BOW-ENS-CV-DWG-1450-01	SEDIMENT AND EROSION CONTROL DETAILS





LEGEND

- SITE BOUNDARY
- PROPOSED BUILDING OUTLINE
- PROPOSED TEMPORARY SEDIMENT FENCE
- PROPOSED TEMPORARY CATCH DRAIN
- PROPOSED TEMPORARY SHAKER GRID AND WASH DOWN FACILITY
- TEMPORARY SANDBAGS AROUND PITS:
1. AFTER PAVEMENT WORKS ARE COMPLETE IF WORKS ARE ONGOING UPSTREAM TO EXISTING GRATED PITS
2. DOWNSTREAM OF CONSTRUCTION WORKS
- PROPOSED STOCKPILE LOCATION
- TEMPORARY STORMWATER PIPE
- OVERLAND FLOW DIRECTION
- SEDIMENT TREATMENT TANKS

REFER TO DWG No: BOW-ENS-CV-DWG-0450-01 FOR SEDIMENT AND EROSION CONTROL DETAILS

EROSION AND SEDIMENT CONTROL:

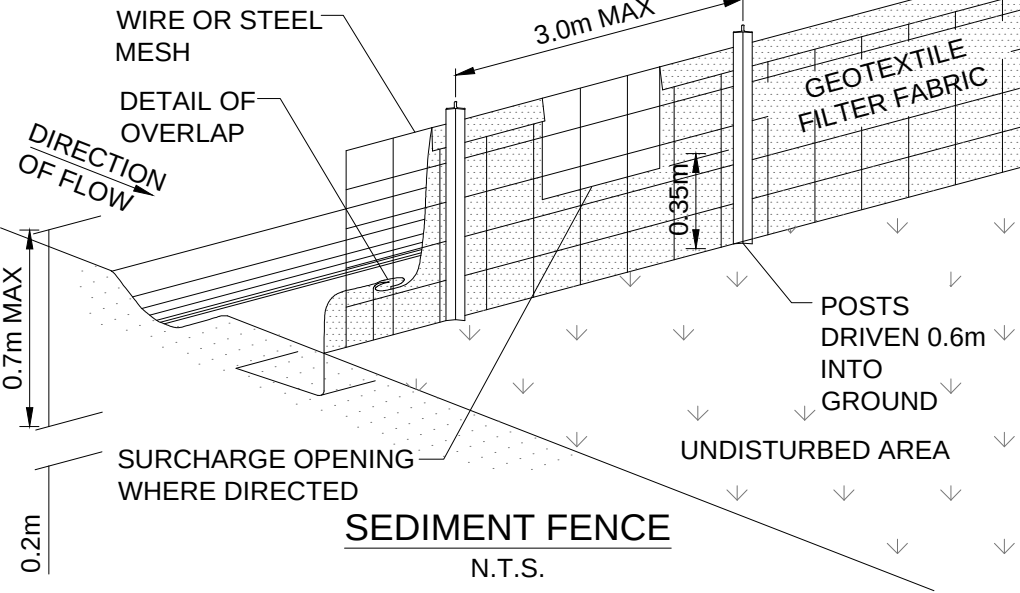
1. THE CONTRACTOR SHALL PROVIDE ADEQUATE TRUCK WASH FACILITIES AT THE SITE EXIT AND SHALL CLEAN ALL VEHICLES EXITING THE SITE TO ENSURE MATERIALS AND MUD IS NOT TRANSPORTED AND DEPOSITED OFF SITE. WATER FROM ANY WASHBAY IS TO BE DIVERTED TO THE SEDIMENT FENCE OR TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.
2. NOTWITHSTANDING THE EROSION AND SEDIMENT CONTROL NOTES THE CONTRACTOR SHALL NOTE THEIR OVERARCHING OBLIGATION WITH THE CITY OF RYDE COUNCIL IN RESPECT OF ENVIRONMENTAL CONTROLS. PARTICULARLY ONGOING TESTING OF DISCHARGE, MAINTENANCE, DREDGING OF SEDIMENTATION PONDS AND FINAL FILTRATION AT OUTLETS.
3. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO PROTECT THE ENVIRONMENT AND IN PARTICULAR SHALL CONTROL EROSION, SEDIMENTATION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE EPA, DEC, COUNCIL, AND THE EROSION AND SEDIMENT CONTROL PLAN.
4. EROSION AND SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH 'MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION' (2004 - BLUE BOOK), AND CITY OF RYDE COUNCIL'S DCP.
5. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONFIRMED IN THE QUALITY PLAN PRODUCED BY THE CONTRACTOR AND SHALL BE IMPLEMENTED AND ADJUSTED TO SUIT CONSTRUCTION ACCESS AND STAGING.
6. FOLLOWING EVERY RAINFALL EVENT EXCEEDING 10mm OR WHEN BASINS ARE GREATER THAN 50% FULL, WATER SHALL BE TESTED FOR COMPLIANCE WITH EPA'S STANDARDS AND, IF FOUND NOT TO COMPLY, WATER SHALL BE TREATED BY APPROPRIATE FLOCCULATION, FILTRATION OR OTHER APPROVED METHODS.
7. WATER SHALL NOT BE REMOVED FROM SEDIMENT BASIN UNTIL TESTED WATER MEETS EPA WATER QUALITY REQUIREMENTS e.g <50 MG/L SUSPENDED SOLIDS.
8. CONTRACTOR TO PROVIDE ALL PERIMETER SITE FENCING FOR SECURITY & SAFETY PURPOSES AS REQUIRED.
9. PUMP TO SYDNEY WATER SEWER ONLY WHEN WATER QUALITY MEETS EPA GUIDELINES (E.G. TSS < 50mg/L).
10. OBTAIN APPROVALS FROM SYDNEY WATER OR COUNCIL TO PUMP TO RECEIVING PIT.
11. EMPTY SEDIMENT BASIN WITHIN 72 HOURS OF RAINFALL. TREAT WATER AS NECESSARY TO ACHIEVE REQUIRED WATER QUALITY STANDARDS.
12. THE EARLY WORKS ARE OUTSIDE THE 100 YEAR ARI FLOOD EXTENTS OF UNIVERSITY CREEK, HENCE WILL NOT IMPACT THE FLOODING REGIME OF THE CREEK.

STOCKPILE NOTES:

1. PROTECT ALL STOCKPILES FROM SCOUR AND EROSION. DO NOT STOCKPILE LOOSE MATERIAL IN ROADWAYS, NEAR DRAINAGE PITS OR IN WATERCOURSES.
2. SPOIL & TOPSOIL STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES AND AREAS WHERE WATER MAY CONCENTRATE. STOCKPILES ARE TO BE SURROUNDED BY SEDIMENT FENCE.
3. IF STOCKPILES ARE TO BE IN PLACE FOR LONGER THAN 30 DAYS THEN THEY SHALL BE STABILIZED BY COVERING WITH MULCH OR WITH TEMPORARY VEGETATION.
4. FOLLOWING CONSTRUCTION, TOPSOIL SHALL BE RESPREAD TO A MINIMUM DEPTH OF 100mm ON BARE SOIL SURFACES AND REVEGETATED.

DRAINAGE AREA 0.6ha MAX. - SLOPE GRADIENT 1:2 MAX.

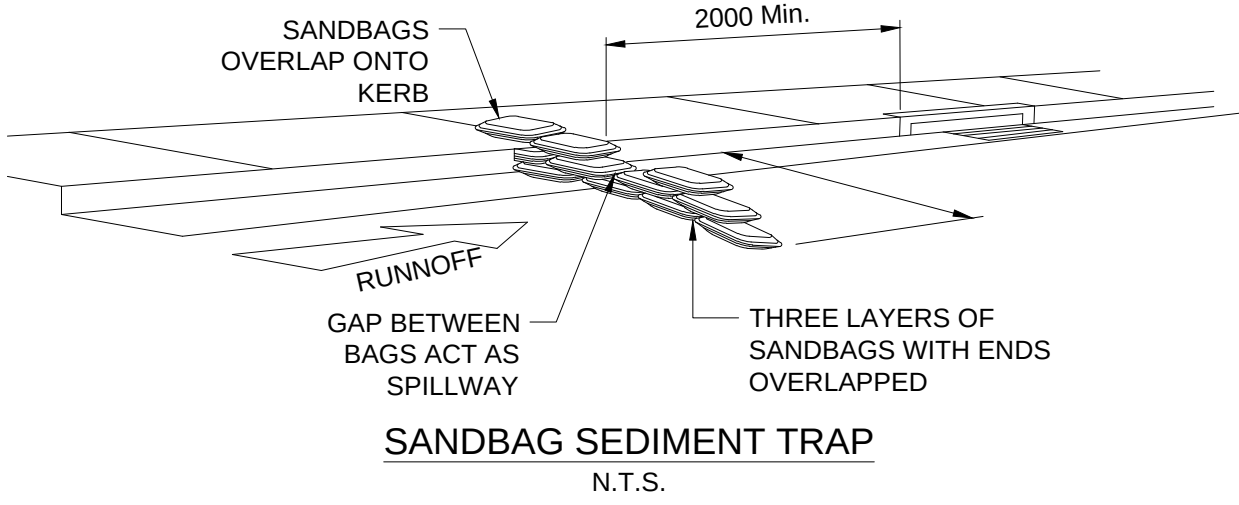
SLOPE LENGTH 60m MAX.



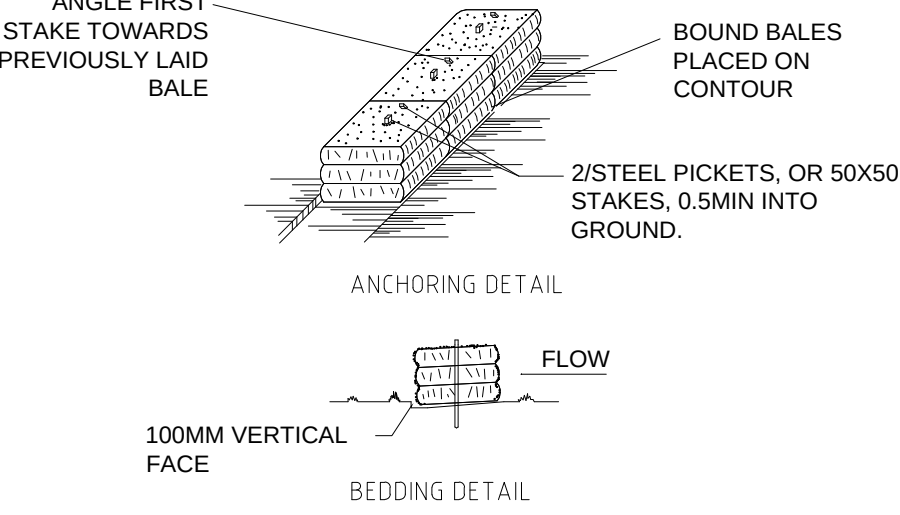
INSTALLATION

1. EXCAVATE A TRENCH 200mm DEEP.
2. DRIVE POSTS 500-700mm INTO GROUND AT A MAXIMUM SPACING OF 3.0m CENTRES.
3. PLACE AND FIX SUPPORT MESH (F52) TO POST.
4. LAY BIDIM GEOTEXTILE (SF 2000) AGAINST THE SUPPORT MESH AND FIX BY TIE WIRE, STAPLES OR HOG RINGS.
5. PLACE BIDIM IN TRENCH AND BACKFILL WITH SOIL.

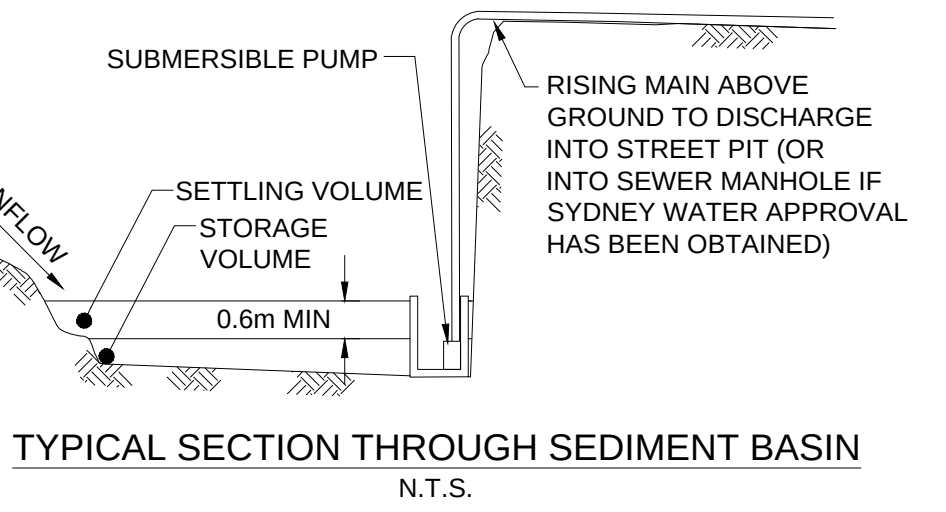
NOTE:
POSITION OF SEDIMENT FENCE AS DIRECTED BY SUPERINTENDENT. FENCE TO REMAIN IN PLACE UNTIL EXCAVATION IS BELOW FOOTPATH LEVEL.



SANDBAG SEDIMENT TRAP
N.T.S.

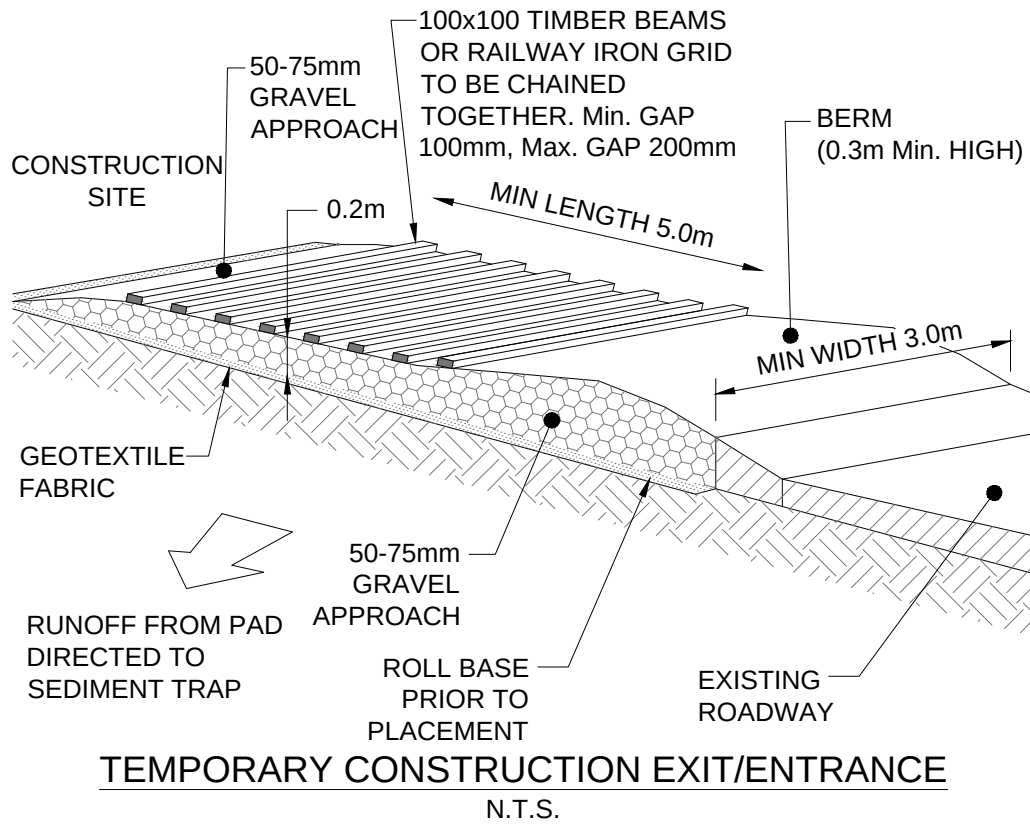


SEDIMENT STRIP CONTROL

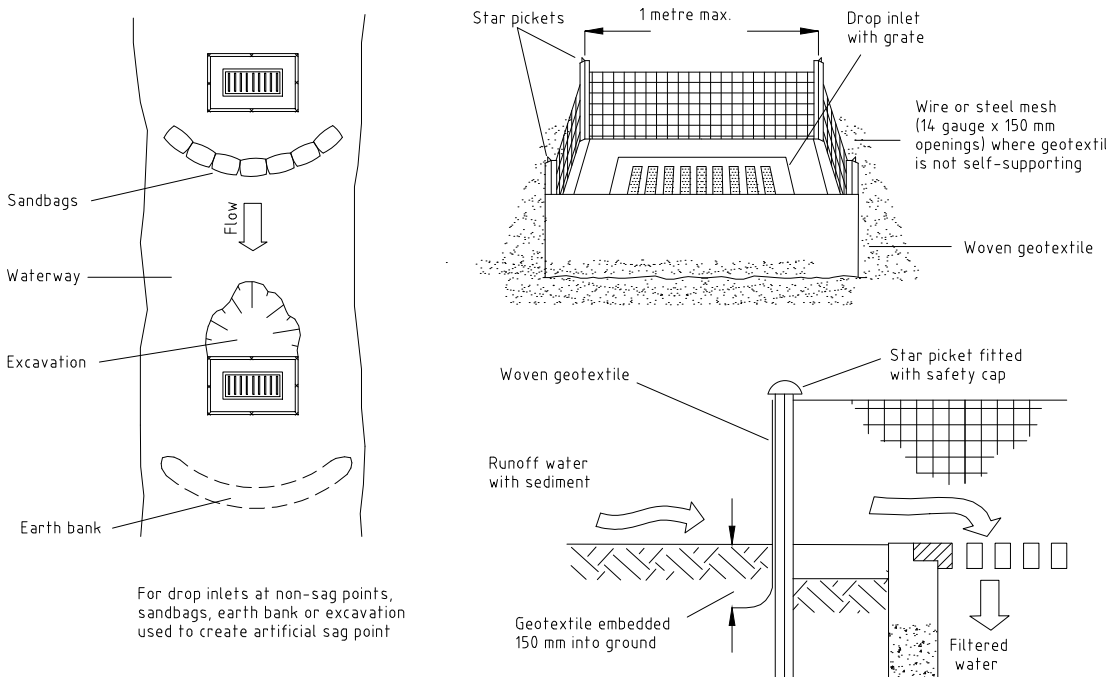


TYPICAL SECTION THROUGH SEDIMENT BASIN
N.T.S.

NOTE:
BASIN SIZE AND DEPTH TO SUIT EXCAVATION CONSTRAINTS



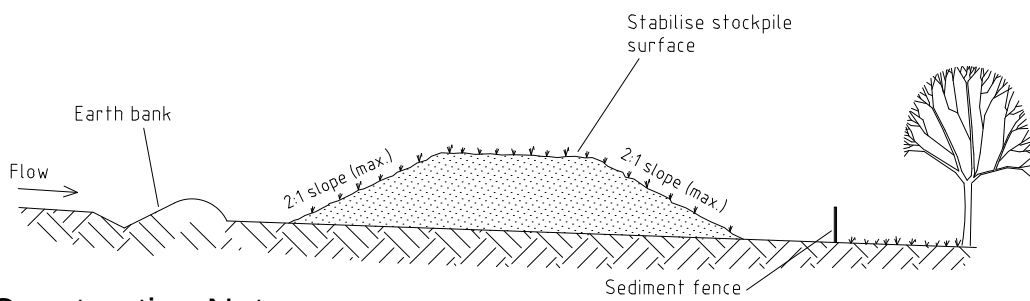
TEMPORARY CONSTRUCTION EXIT/ENTRANCE
N.T.S.



Construction Notes

1. Fabricate a sediment barrier made from geotextile or straw bales.
2. Follow Standard Drawing 6-8 for installation procedures for geofabric. Reduce the picket spacing to 1 metre centres.
3. In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
4. Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

GEOTEXTILE INLET FILTER
N.T.S.



Construction Notes

1. Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
2. Construct on the contour as low, flat, elongated mounds.
3. Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
4. Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.

STOCKPILES
N.T.S.

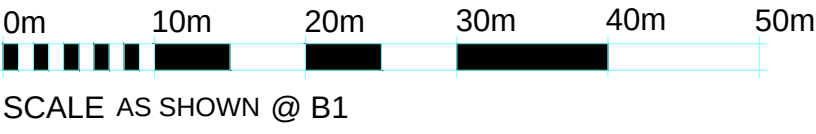
AMENDMENTS				
NO.	DATE	REASON	BY	APP'D
1	20/05/2018	SCHEMATIC DESIGN ISSUE	MM	



PROJECT
BOWRAL DISTRICT HOSPITAL REDEVELOPMENT - MAIN WORKS
97-103 Bowral St, Bowral
NSW 2576

DRAWING NUMBER
BOW-ENS-CV-DWG-1450
DRAWING NAME
SEDIMENT AND EROSION CONTROL DETAILS

REV
01



ISSUE DATE
FEB 18