

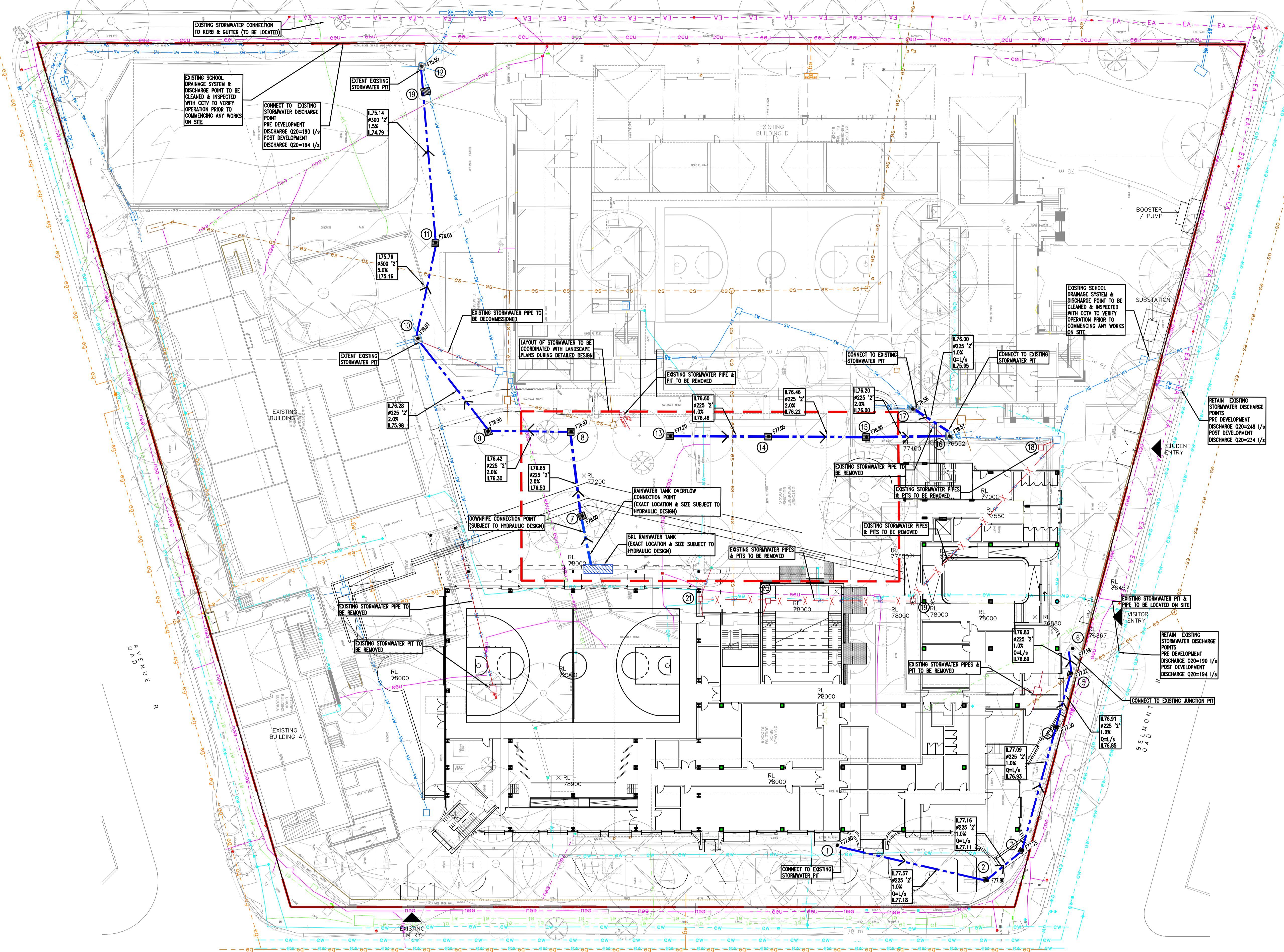
MOSMAN HIGH SCHOOL CIVIL WORKS

GENERAL NOTES					
1. Contractor must verify all dimensions and existing levels on site prior to commencement of works. Any discrepancies to be reported to the Engineer.					
2. Strip all topsoil from the construction area. Topsoil should be reused where identified suitably remediated or disposed off site.					
3. Make smooth connection with all existing works.					
4. Compact subgrade under buildings and pavements to minimum 98% standard maximum dry density in accordance with AS 1289 5.1.1. Compaction under buildings to extend 2m minimum beyond building footprint TBC with project architect and structural engineer.					
5. All work on public property, property which is to become public property, or any work which is to come under the control of the Statutory Authority, the Contractor is to ensure that the drawings used for construction have been approved by all relevant authorities prior to commencement site.					
6. All work on public property, property which is to become public property, or any work which is to come under the control of the Statutory Authority is to be carried out in accordance with the requirements of the relevant Authority. The Contractor shall obtain these requirements from the Authority. Where the requirements of the Authority are different to the drawings and specifications, the requirements of the Authority shall be applicable.					
7. For all temporary batters refer to geotechnical recommendations.					
REFERENCE DRAWINGS					
1. These drawings have been based from, and to be read in conjunction with the following Consultants drawings. Any conflict to the drawings must be notified immediately to the Engineer.					
Consultant	Dwg Title	Dwg No	Rev	Date	
LTS	SURVEY	X-SURVEY	1	30.01.20	
WOODS BAGOT	GROUND FLOOR PLAN	AR-02-L0-001	1	18.02.21	
SURVEY AND SERVICES INFORMATION					
SURVEY					
Origin of levels : SSM1004 RL71.886 Datum of levels : A.H.D. AUSTRALIAN HEIGHT DATUM Coordinate system : MGA Survey prepared by : LTS Setup Point : CONTACT THE SURVEYOR					
PIT SCHEDULE					
Note: Grate size does not necessarily reflect pit size, refer pit type details, shown on detail sheets - CV-82-A-006 Final internal pit dimensions are to comply with AS3500					
Type	Description	Cover (Clear Opening)	Number		
A	Surface inlet pit	600 x 600 Class C galvanised mild steel grate hinged to frame	2,3,4		
		900 x 900 Class C galvanised mild steel grate hinged to frame	7,8,9,11,13,14,15		
		1200 x 900 Class C galvanised mild steel grate hinged to frame	19		
Junction pit	600x600 Class C cast iron cover with concrete infill	5			
B	Existing pit	Existing pits to remain	1,6,10,12,16,17		
		Existing pits to be removed	18,19,20,21		
UNDERGROUND SERVICES - WARNING					
The locations of underground services shown on Taylor Thomson Whitting's drawings have been plotted from diagrams provided by service authorities. This information has been prepared solely for the contractor's own use and may not necessarily be updated or accurate. The position of services as recorded by the authority at the time of installation may not reflect changes in the physical environment subsequent to installation.					
Taylor Thomson Whitting does not guarantee that the services information shown on these drawings is accurate and will accept no liability for any inaccuracies in the survey information provided to us from any cause whatsoever.					
The Contractor must confirm the exact location and extent of services prior to construction and notify any conflict with the drawings immediately to the Engineer/Superintendent.					
The contractor is to get approval from the relevant state survey department, to remove/adjust any survey mark. This includes but is not limited to; State Survey Marks (SSM), Permanent Marks (PM), cadastral reference marks or any other survey mark which is to be removed or adjusted in any way.					
Taylor Thomson Whitting plans do not indicate the presence of any survey mark. The contractor is to undertake their own search.					
SITEWORKS NOTES					
1. All basecourse material to comply with RMS specification No 3051 and compacted to minimum 98% modified standard dry density in accordance with AS 1289 5.2.1. 2. All trench backfill material shall be compacted to the same density as the adjacent material. 3. All service trenches under vehicular pavements shall be backfilled with an approved select material and compacted to a minimum 98% standard maximum dry density in accordance with AS 1289 5.1.1.					
BOUNDARY AND EASEMENT NOTE					
The property boundary and easement locations shown on Taylor Thomson Whitting's drawings have been based from information received from : LTS					
Taylor Thomson Whitting makes no guarantees that the boundary or easement information shown is correct. Taylor Thomson Whitting will accept no liabilities for boundary inaccuracies. The contractor/builder is advised to check/confirm all boundaries in relation to all proposed work prior to the commencement of construction. Boundary inaccuracies found are to be reported to the superintendent prior to construction starting.					
STORMWATER DRAINAGE NOTES					
1 Stormwater Design Criteria : (A) Average recurrence interval = - 1:100 years for roof drainage to first external pit - 1:20 years for paved and landscaped areas (B) Rainfall intensities = - Time of concentration: 5 minutes - 1:100 years = 272 mm/hr - 1:20 years = 207 mm/hr (C) Runoff coefficients = - Roof areas: $C_{ro} = 1.00$ - Roads and paved areas: $C_{ro} = 1.00$ - Landscaped areas: $C_{ro} = 0.75$ 2. Pipes 300 dia and larger to be reinforced concrete Class "2" approved spigot and socket with rubber ring joints U.N.O. 3. Pipes up to 300 dia may be sewer grade uPVC with solvent welded joints, subject to approval by the engineer. 4. Equivalent strength VCP or FRP pipes may be used subject to approval. 5. Precast pits may be used external to the building subject to approval by Mosman council. 6. Enlargers, connections and junctions to be manufactured fittings where pipes are less than 300 dia. 7. Where subsell drains pass under floor slabs and vehicular pavements, unsloped uPVC sewer grade pipe is to be used. 8. Grates and covers shall conform with AS 3996-2006, and AS 1428.1 for access requirements. 9. Pipes are to be installed in accordance with AS 3725. All bedding to be type H2 U.N.O. 10. Care is to be taken with invert levels of stormwater lines. Grades shown are not to be reduced without approval. 11. All stormwater pipes to be 100 dia at 1.0% min fall U.N.O. 12. Subsell drains to be sloped flexible uPVC U.N.O. 13. Adopt invert levels for pipe installation (grades shown are only nominal).					
EROSION AND SEDIMENT CONTROL NOTES					
1. All work shall be generally carried out in accordance with (A) Local authority requirements, (B) EPA - Pollution control manual for urban stormwater, (C) LANDCOM NSW - Managing Urban Stormwater. Soils and Construction ("Blue Book"). 2. Erosion and sediment control drawings and notes are provided for the whole of the works. Should the Contractor stage these works then the design may be required to be modified. Variation to these details may require approval by the relevant authorities. The erosion and sediment control plan shall be implemented and adopted to meet the varying situations as work on site progresses. 3. Maintain all erosion and sediment control devices to the satisfaction of the superintendent and the local authority. 4. When stormwater pits are constructed prevent site runoff entering the pits unless silt fences are erected around pits. 5. Minimise the area of site being disturbed at any one time. 6. Protect all stockpiles of materials from scour and erosion. Do not stockpile loose material in roadways, near drainage pits or in watercourses. 7. All soil and water control measures are to be put back in place at the end of each working day, and modified to best suit site conditions. 8. Control water from upstream of the site such that it does not enter the disturbed site. 9. All construction vehicles shall enter and exit the site via the temporary construction entry/exit. 10. All vehicles leaving the site shall be cleaned and inspected before leaving. 11. Maintain all stormwater pipes and pits clear of debris and sediment. Inspect stormwater system and clean out after each storm event. 12. Clean out all erosion and sediment control devices after each storm event.					
SAFETY IN DESIGN					
Contractor to refer to Appendix B of the Civil Specification for the Civil Risk and Solutions Register.					
EXISTING SERVICES					
Contractor to be aware existing services are located within the site. Location of all services to be verified by the Contractor prior to commencing works. Contractor to confirm with relevant authority regarding measures to be taken to ensure services are protected or procedures are in place to demolish and/or relocate.					
EXISTING STRUCTURES					
Contractor to be aware existing structures exist within the site which need to be protected. To prevent damage to trees and/or personnel, site works to be carried out as far as practicable from existing trees. Advice needs to be sought from Arborist and/or Landscape Architect on measures required to protect trees.					
EXISTING TREES					
Contractor to be aware existing trees exist within the site which need to be protected. To prevent damage to trees and/or personnel, site works to be carried out as far as practicable from existing trees. Advice needs to be sought from Arborist and/or Landscape Architect on measures required to protect trees.					
GROUNDWATER					
Contractor to be aware ground water levels are close to existing surface level. Temporary de-watering may be required during construction works.					
EXCAVATIONS					
Deep excavations due to stormwater drainage works is required. Contractor to ensure safe working procedures are in place for workers. All excavations to be fenced off and batters adequately supported to approval of Geotechnical Engineer.					
GROUND CONDITIONS					
Contractor to be aware of the site geotechnical conditions. Refer to geotechnical report by COFFEY (754-sydgE233510-AC dated 28.08.20).					
HAZARDOUS MATERIALS					
Existing asbestos products & contaminated material may be present on site. Contractor to ensure all hazardous materials are identified prior to commencing works. Safe working practices as per relevant authority to be adopted and appropriate PPE to be used when handling all hazardous materials. Refer to geotechnical/environmental report by COFFEY ("Limited Asbestos and Hazardous Material Pre-Demolition Survey RO2" dated 13.05.20).					
CONFINED SPACES					
Contractor to be aware of potential hazards due to working in confined spaces such as stormwater pits, trenches and/or tanks. Contractor to provide safe working methods and use appropriate PPE when entering confined spaces.					
MANUAL HANDLING					
Contractor to be aware manual handling may be required during construction. Contractor to take appropriate measures to ensure manual handling procedures and assessments are in place prior to commencing works.					
WATER POLLUTION					
Contractor to ensure appropriate measures are taken to prevent pollutants from construction works contaminating the surrounding environment.					
SITE ACCESS/EGRESS					
Contractor to be aware site works occur in close proximity to footpath and roadways. Contractor to erect appropriate barriers and signage to protect site personnel and public.					
VEHICLE MOVEMENT					
Contractor to supply and comply with traffic management plan and provide adequate site traffic control including a certified traffic marshall to supervise vehicle movements where necessary.					
EXISTING SERVICES LEGEND					
--- es --- es Existing sewer --- ew --- ew Existing water --- eeu --- eeu Existing underground electrical --- EA --- EA Existing aerial electrical --- et --- et Existing communications --- eg --- eg Existing gas --- SW --- SW Existing stormwater					
DRAWING SCHEDULE					
Drawing No: CV-82-A-001 Drawing Title: NOTES AND LEGEND SHEET					
CV-82-A-002 EROSION AND SEDIMENT CONTROL PLAN					
CV-82-A-004 SITWORKS PLAN					
CV-82-A-006 DETAIL SHEET 1					
CV-82-A-008 CATCHMENT PLAN - PRE DEVELOPMENT					
CV-82-A-009 CATCHMENT PLAN - POST DEVELOPMENT					

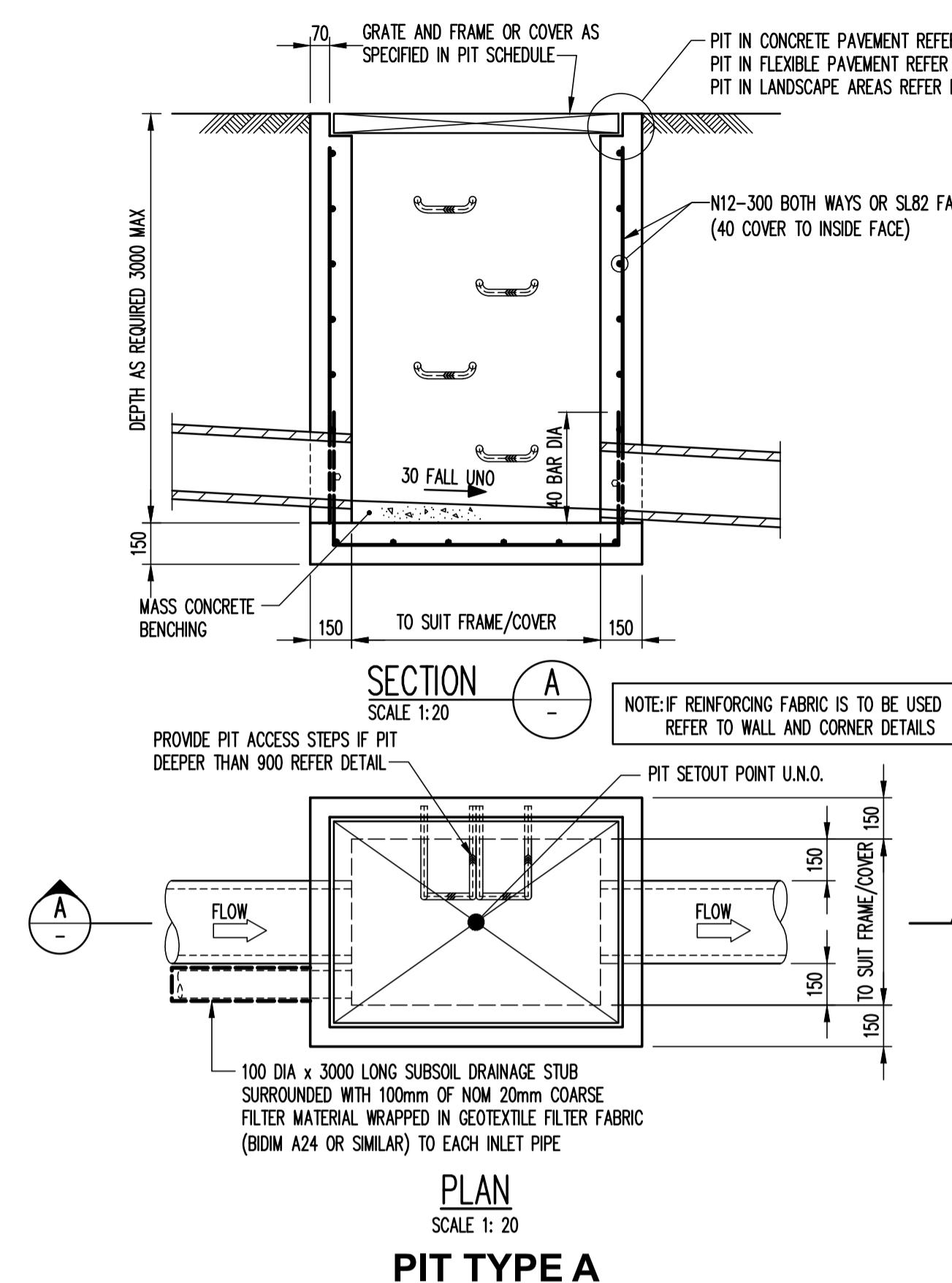


LOCALITY PLAN

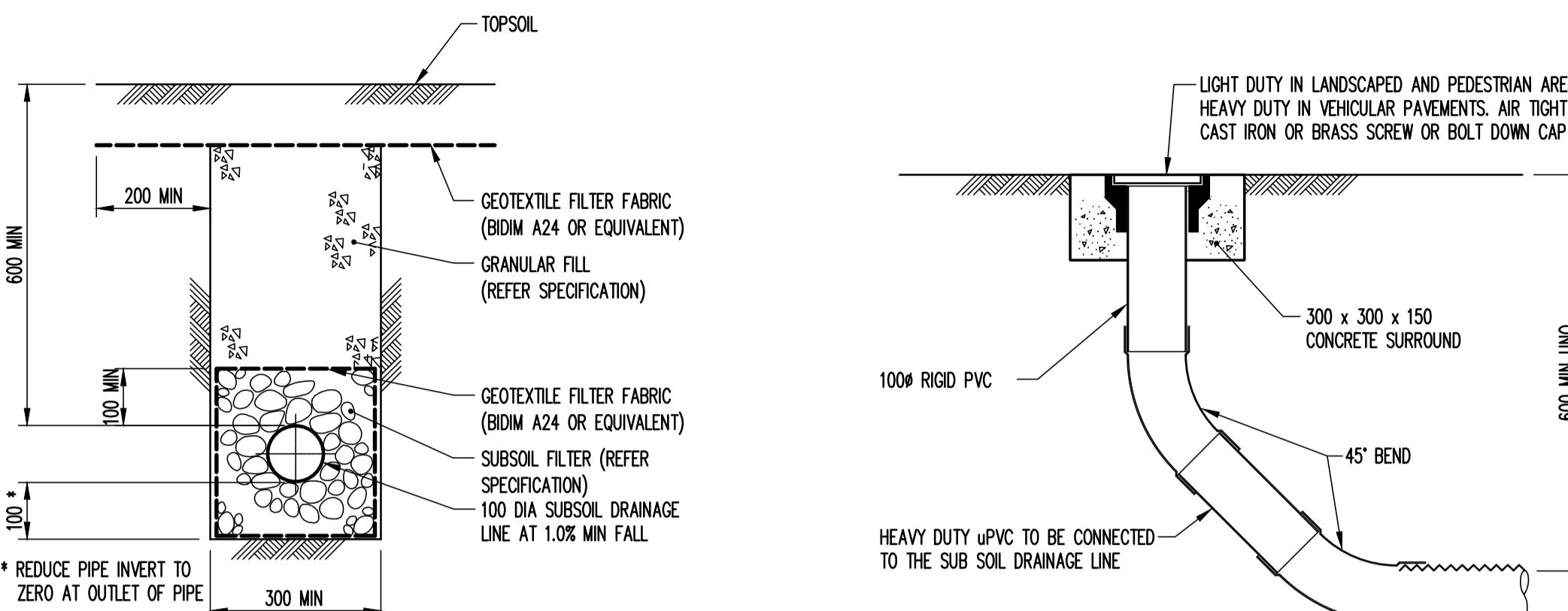
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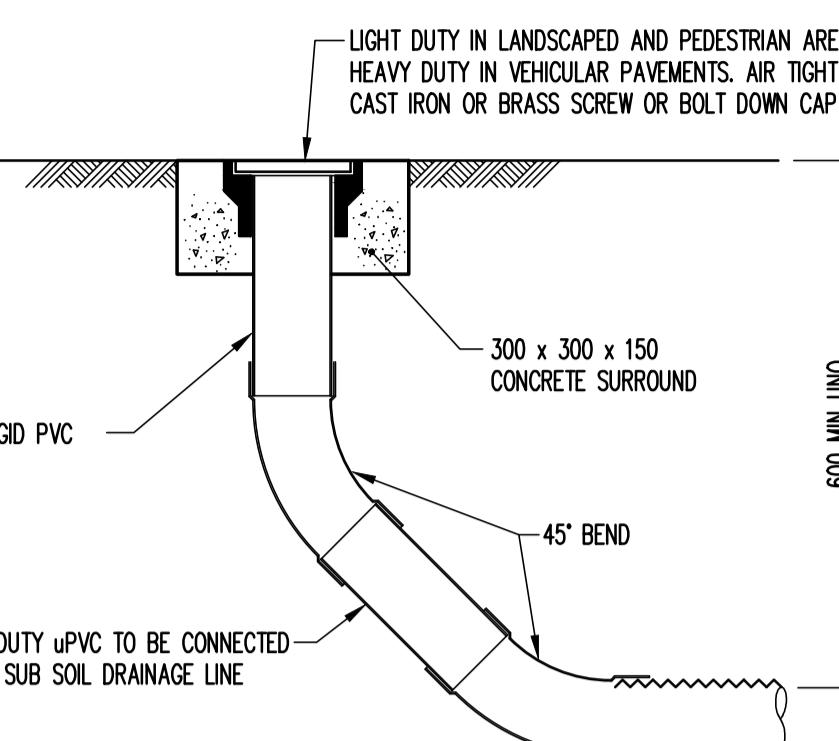
PRELIMINARY
NOT TO BE USED
FOR CONSTRUCTION



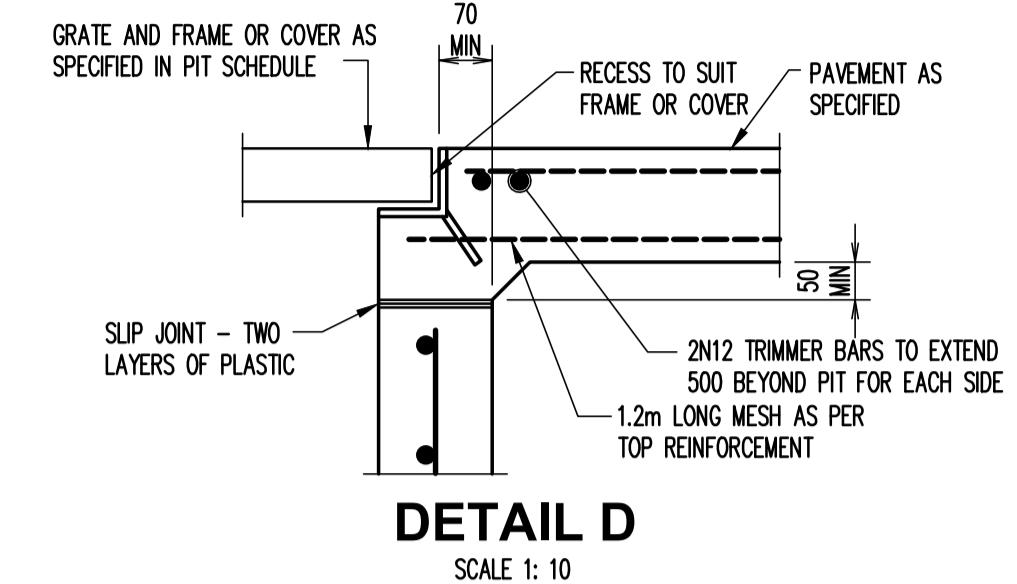
PIT TYPE A



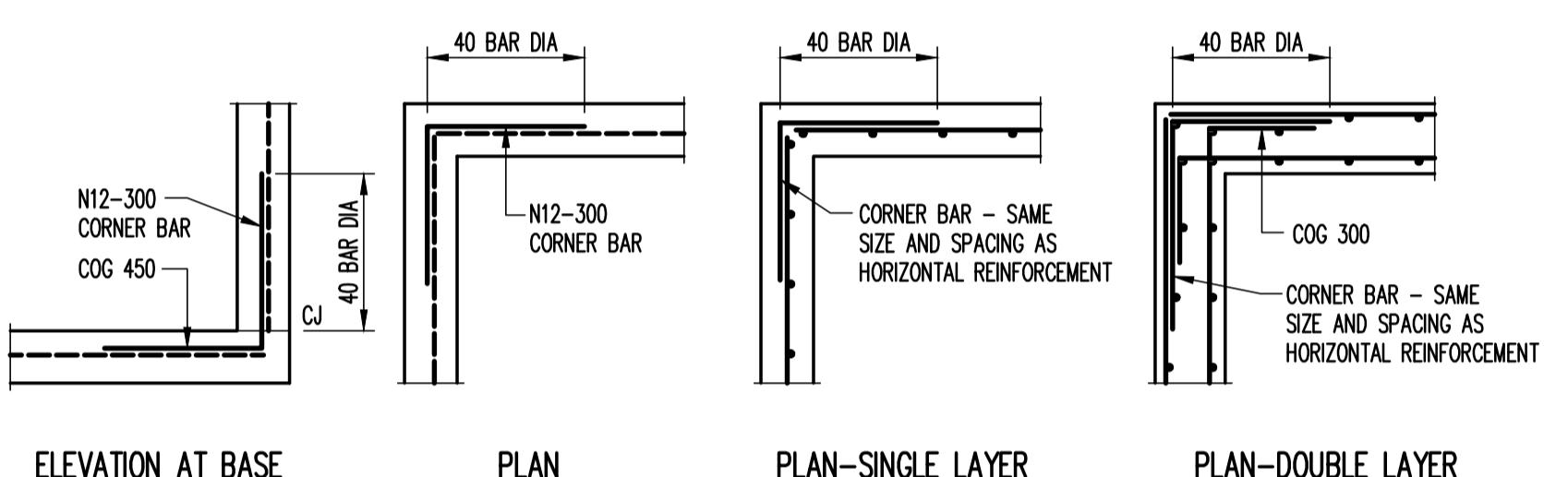
SUBSOIL IN LANDSCAPED AREAS



FLUSHING POINT (FP)



DETAIL D

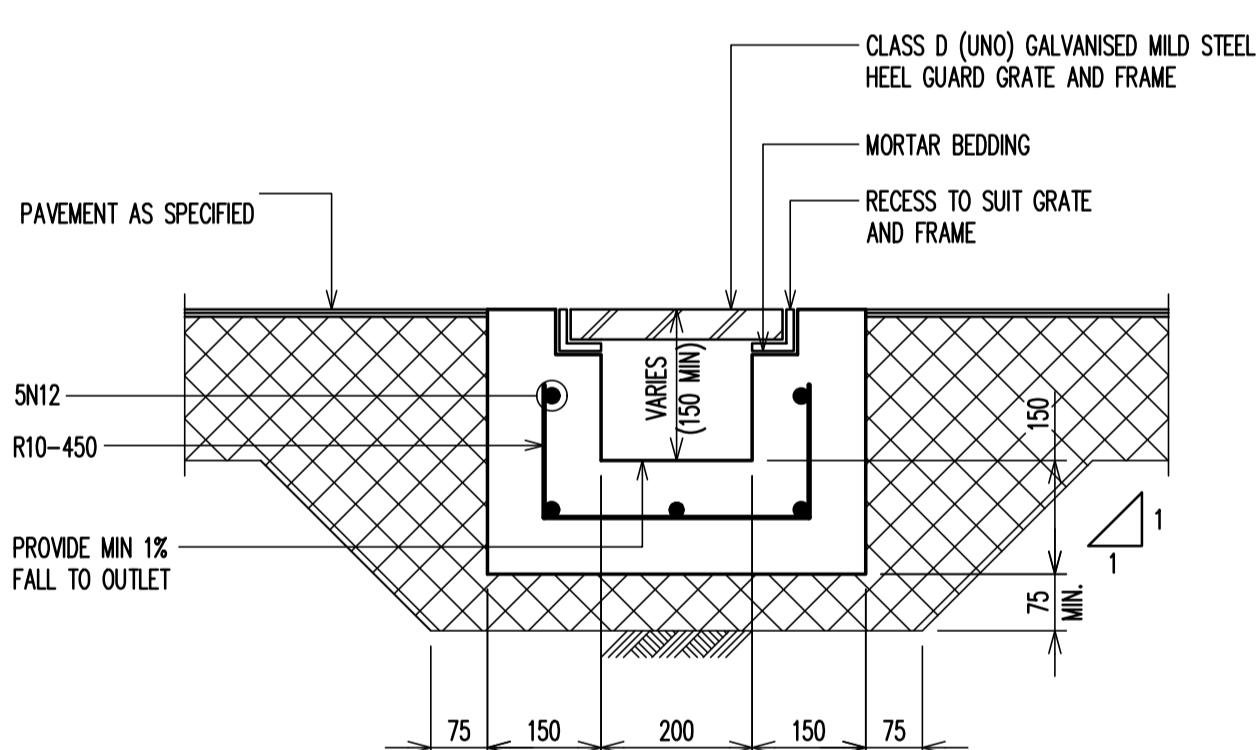


FABRIC

REINFORCEMENT

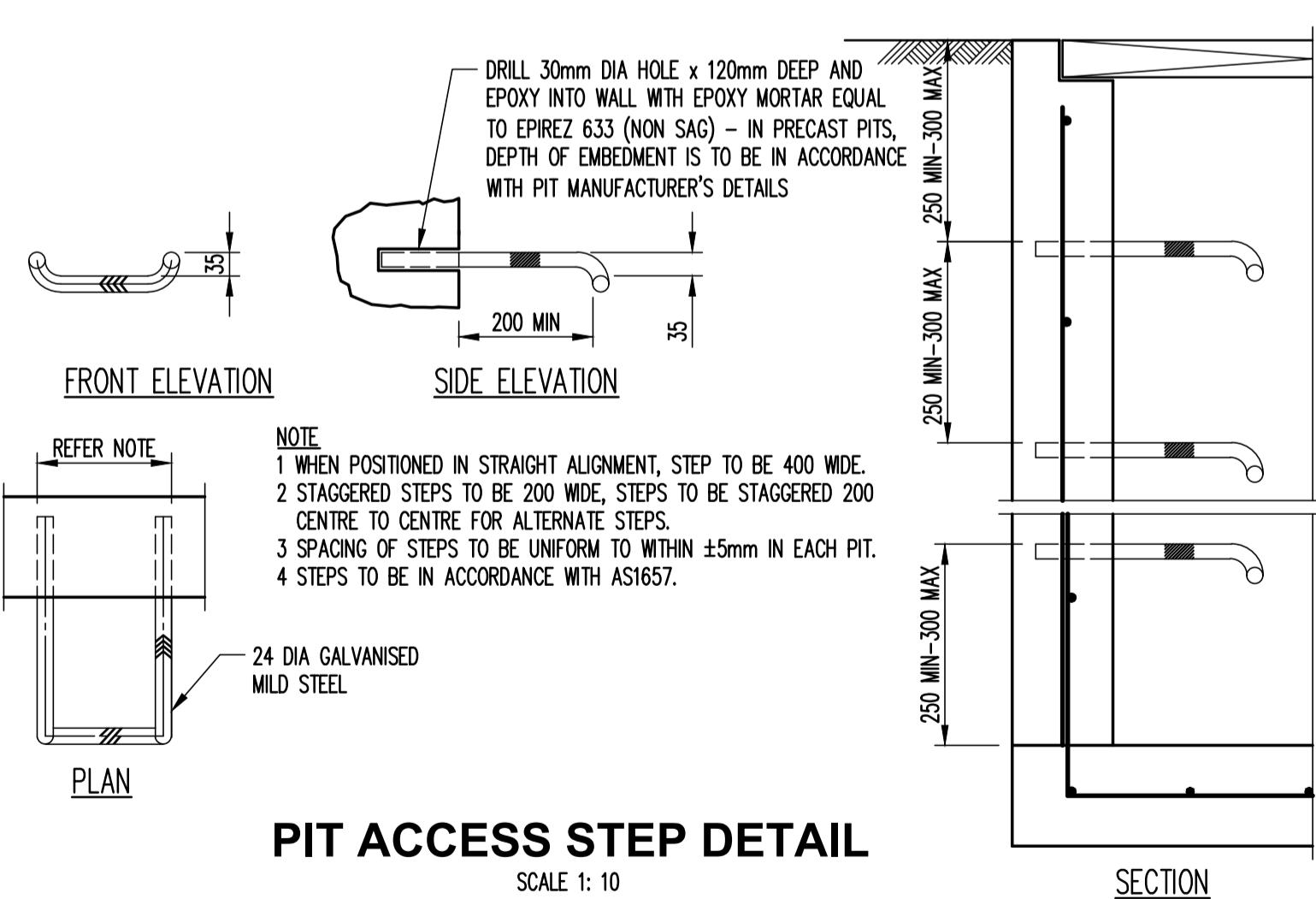
PIT CORNER DETAILS

SCALE 1: 20

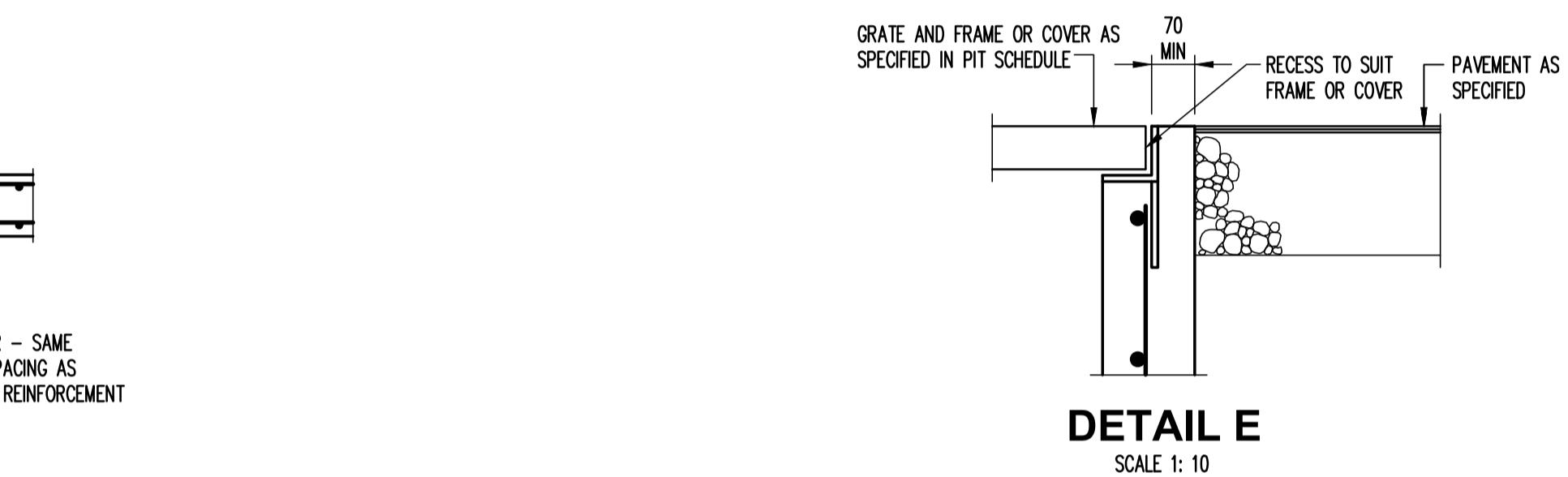


GRATED DRAIN TYPE A (GD)

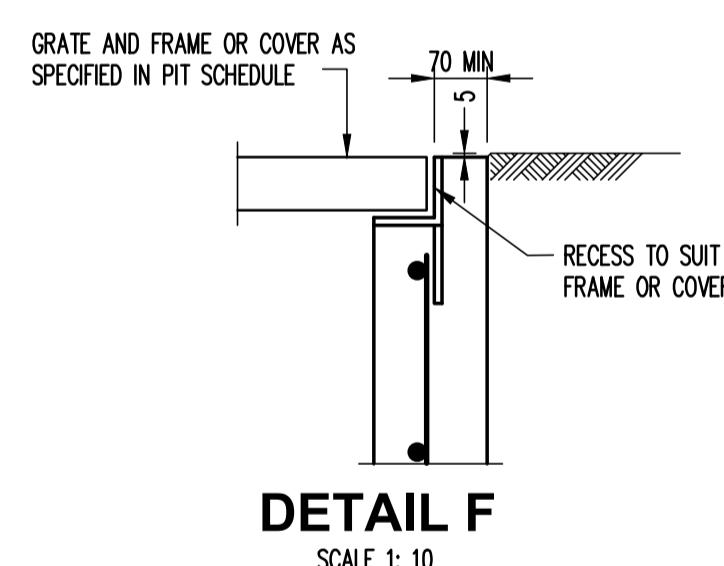
SCALE 1:10



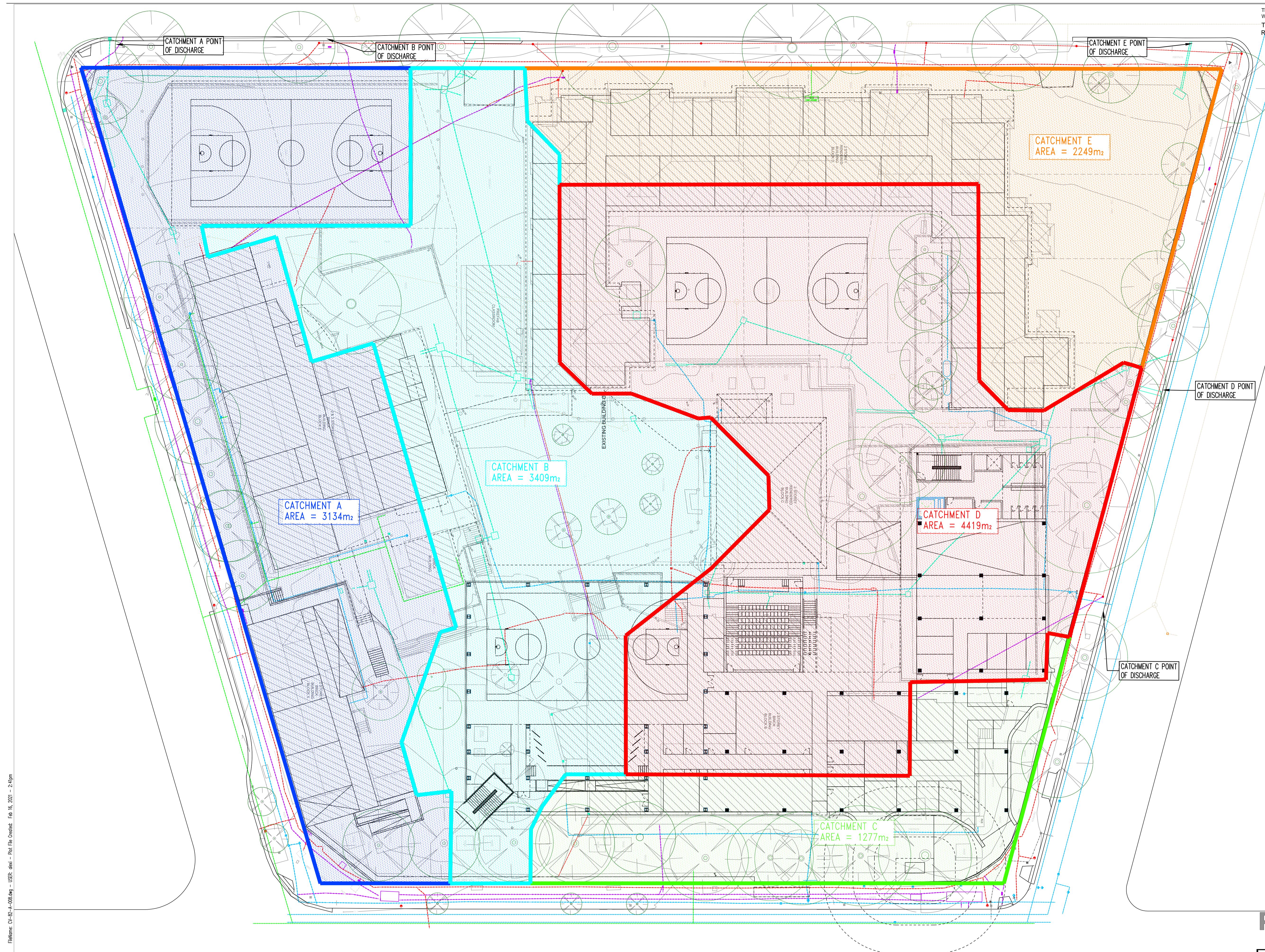
PIT ACCESS STEP DETAIL



DETAIL E



DETAIL F



PRELIMINARY
NOT TO BE USED
FOR CONSTRUCTION

A1 0 1 2 3 4 5 6 7 8 9 10

P2 ISSUE FOR APPROVAL AH JW 16.02.21

P1 PRELIMINARY AA JW 09.02.21

Rev Description Eng Draft Date Rev Description Eng Draft Date Rev Description Eng Draft Date Rev Description Eng Draft Date

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Sheet Subject
CATCHMENT PLAN - PRE DEVELOPMENT

Scale : A1 Drawn Authorised
1:250 JW SB

Job No Drawing No Revision
201635 CV-82-A-008 P2

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