

SYD08 DATA CENTRE

CIVIL SERVICES



CIVIL DRAWING LIST

NSW202013_C101.01	COVER SHEET AND DRAWING LIST
NSW202013_C101.02	LEGENDS SHEET
NSW202013_C101.03	NOTES
NSW202013_C101.05	DETAILS SHEET 1
NSW202013_C101.06	DETAILS SHEET 2
NSW202013_C101.07	DETAILS SHEET 3
NSW202013_C101.08	DETAILS SHEET 4
NSW202013_C101.10	GENERAL ARRANGEMENT AND PHASING PLAN
NSW202013_C103.01	CIVIL WORKS PLAN
NSW202013_C103.10	STORMWATER CATCHMENT PLAN
NSW202013_C103.11	WATER BALANCE CATCHMENT PLAN
NSW202013_C105.01	SOIL AND WATER MANAGEMENT PLAN
NSW202013_C107.01	VEHICLE TURN PATHS PLAN

B	ISSUE FOR SSDA	22.03.22	RG	MB
A	ISSUE FOR SSDA	14.03.22	RG	MB
No.	Description	Date	By	CHK

Lead Consultant / MEP / Structures

LCI

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(AUSTRALIA) PTY LTD

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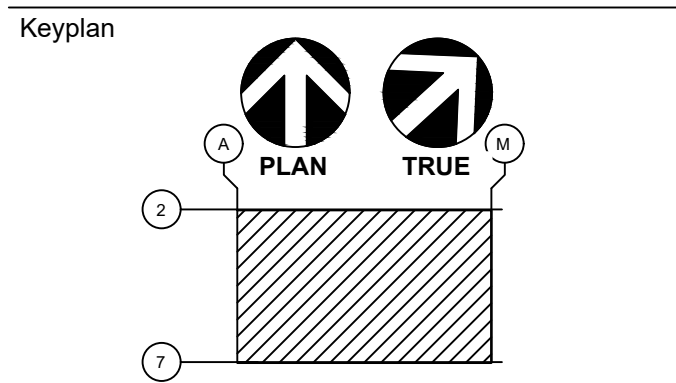
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Project
SYD08 DATA CENTRE
57 STATION ROAD
SEVEN HILLS, NSW 2147

Drawing Title
COVER SHEET AND DRAWING LIST

DIAL BEFORE YOU DIG

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IMPORTANT: THE CONTRACTOR IS TO MAINTAIN A CURRENT SET OF "DIAL BEFORE YOU DIG" DRAWINGS ON SITE AT ALL TIMES.

Status	ISSUE FOR SSDA
Scale @ A0	N/A
Project No.	NSW202013
Drawing No.	NSW202013_C101.01

COMMERCIAL IN CONFIDENCE

SOIL EROSION AND SEDIMENT CONTROL LEGEND-PROPOSED WORKS



GENERAL NOTES

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND STRUCTURAL CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.
2. ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE BLACKTOWN CITY COUNCIL CIVIL WORKS SPECIFICATION (2005)
3. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION
4. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.
5. ALL DIMENSIONS ON DETAILS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. ALL PLANS AND LEVELS ARE EXPRESSED IN METRES.
6. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURAL STABILITY OF THE WORKS AND ENSURE NO PARTS BE OVER STRESSED UNDER CONSTRUCTION ACTIVITIES.
7. WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT S.A.A. CODES INCLUDING ALL AMENDMENTS, AND THE LOCAL STATUTORY AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
8. THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM ACOR ENGINEER BUT IS NOT AN AUTHORISATION FOR A VARIATION. ANY VARIATIONS INVOLVED MUST BE TAKEN UP WITH ACOR CONSULTANTS / PRINCIPAL'S REPRESENTATIVE BEFORE THE WORK COMMENCES.
9. ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE ENGINEER FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
10. THE CONTRACTOR SHALL GIVE 48 HOURS NOTICE FOR ALL ENGINEERING INSPECTIONS. ALL INSPECTIONS AND CERTIFICATIONS TO BE INCLUDED IN CONTRACTORS COST.
11. BUILDING FROM THESE DRAWINGS IS NOT TO COMMENCE UNTIL APPROVED BY THE PRINCIPAL CERTIFYING AUTHORITY.
12. THE WORD 'ENGINEER' USED IN THESE NOTES REFER TO AN EMPLOYEE OR NOMINATED REPRESENTATIVE OF **ACOR CONSULTANTS PTY LTD**.
13. ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE RELEVANT CURRENT WORKPLACE HEALTH AND SAFETY LEGISLATION.

SITEWORKS NOTES

1. ORIGIN OF LEVELS :- AUSTRALIAN HEIGHT DATUM (A.H.D.)
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
3. ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS, THE SPECIFICATIONS AND THE DIRECTIONS OF THE PRINCIPAL'S REPRESENTATIVE.
4. EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE PRINCIPAL'S REPRESENTATIVE. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
5. WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
6. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
7. CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER COMMUNICATIONS OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
8. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH AN APPROVED NON-NATURAL GRANULAR MATERIAL AND COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.1.1.
9. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
10. ON COMPLETION OF PIPE INSTALLATION ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS.
11. PROVIDE 10mm WIDE EXPANDING CORK JOINTS BETWEEN CONCRETE PAVEMENTS AND ALL BUILDINGS, WALLS, FOOTINGS, COLUMNS, KERBS, DISH DRAINS, GRATED DRAINS, BOLLARD FOOTINGS ETC
12. CONTRACTOR TO OBTAIN ALL AUTHORITY APPROVALS.
13. ALL BATTERS TO BE GRASSED LINED WITH MINIMUM 100 TOPSOIL AND APPROVED COUCH LAID AS TURF.
14. MAKE SMOOTH TRANSITION TO EXISTING SERVICES AND MAKE GOOD.
15. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY DIVERSION DRAINS AND MOUNDS TO ENSURE THAT AT ALL TIMES EXPOSED SURFACES ARE FREE DRAINING AND WHERE NECESSARY EXCAVATE SUMPS AND PROVIDE PUMPING EQUIPMENT TO DRAIN EXPOSED AREAS.
16. ON COMPLETION OF WORKS ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL INCLUDING, BUT NOT LIMITED TO, KERBS, FOOTPATHS, CONCRETE AREAS, GRASS AND LANDSCAPED AREAS.

EXISTING SERVICES AND FEATURES

1. THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION, REMOVAL AND DISPOSAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA, AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
2. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
3. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN WRITTEN APPROVAL OF HIS PROGRAMME FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
4. EXISTING BUILDINGS, EXTERNAL STRUCTURES, AND TREES SHOWN ON THESE DRAWINGS ARE FEATURES EXISTING PRIOR TO ANY DEMOLITION WORKS.
5. CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
6. INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. CONTRACTOR TO GAIN APPROVAL OF SUPERINTENDENT FOR TIME OF INTERRUPTION.

COMPACTION NOTES

1. REFER TO GEOTECHNICAL INVESTIGATION REPORT PREPARED BY MARTENS CONSULTING ENGINEERS, REF: P200794JR05V03 DATED: FEBRUARY 2022
2. STRIP TOPSOIL TO EXPOSE NATURALLY OCCURRING MATERIAL AND STOCKPILE ON SITE FOR SELECTIVE RE-USE OR DISPOSE OFF-SITE AS DIRECTED BY THE SUPERINTENDENT. DEPTH OF TOPSOIL TO BE STRIPPED SHOWN ON THE BULK EARTHWORKS PLANS IS INDICATIVE ONLY BASED ON AVAILABLE GEOTECHNICAL INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ALLOW TO STRIP TOPSOIL TO THE APPROPRIATE DEPTH TO EXPOSE THE UNDERLYING NATURALLY OCCURRING MATERIAL.
3. UNCONTROLLED FILLING IS TO BE REMOVED FROM THE FOOTPRINT OF THE BUILDING AND PAVEMENT AREAS. THE STRIPPED SURFACE SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER.
4. PROOF ROLL EXPOSED NATURAL SURFACE WITH A MINIMUM OF EIGHT PASSES OF A SMOOTH DRUM ROLLER (MINIMUM STATIC WEIGHT OF 10 TONNES) THE FINAL PASS SHALL BE IN THE PRESENCE OF A GEOTECHNICAL ENGINEER.
5. ALL SOFT, WET OR UNSUITABLE MATERIAL TO BE REMOVED AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND REPLACED WITH APPROVED MATERIAL SATISFYING THE REQUIREMENTS LISTED BELOW.
6. WASTE CLASSIFICATION OF SPOIL MATERIAL, INCLUDING PROVISION OF APPROPRIATE HAZARDOUS MATERIALS HANDLING (AS REQUIRED) IS THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO UNDERTAKING THE EXCAVATION WORKS.
7. ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE GEOTECHNICAL ENGINEER AND SHALL COMPLY WITH THE FOLLOWING:

a. FREE FROM ORGANIC, PERISHABLE AND CONTAMINATED MATTER

b. MAXIMUM PARTICLE SIZE 75MM

c. PLASTICITY INDEX BETWEEN 2% AND 15%
8. ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM 300MM THICK LAYERS AND COMPACTED AT OPTIMUM MOISTURE CONTENT (+ OR - 2%) TO ACHIEVE A DRY DENSITY DETERMINED IN ACCORDANCE WITH AS 1289 5.3.1 OF NOT LESS THAN THE FOLLOWING STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 E5.1.1:

LOCATION	STANDARD DRY DENSITY
UNDER BUILDING SLABS	98%
AREAS OF SERVICE TRENCHES	98%
EXTERNAL PAVED AREAS, ROADS AND CARPARKS	98%
LANDSCAPED AREAS	90%

THE UPPER 0.5m THICKNESS FOR THE FOLLOWING AREAS MUST BE COMPACTED AT OPTIMUM MOISTURE CONTENT (+ OR -2%) AS FOLLOWS

LOCATION	STANDARD DRY DENSITY
DENSITY	
UNDER BUILDING SLABS	100%
PAVEMENTS AND CARPARKS	100%

9. THE CONTRACTOR SHALL PROGRAM THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS, ROLLER MARKS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS SHALL BE RECTIFIED BY THE CONTRACTOR AT THEIR COST.
10. TESTING OF THE SUBGRADE SHALL BE CARRIED OUT BY AN APPROVED NATA REGISTERED LABORATORY AT THE CONTRACTORS EXPENSE. TESTING FREQUENCY SHALL BE IN ACCORDANCE WITH THE FREQUENCY SPECIFIED IN AS1289
11. DO NOT CARRY OUT BACKFILLING UNTIL AT LEAST 100% OF THE SPECIFIED MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH OF THE STRUCTURE HAS BEEN ACHIEVED, BUT IN ANY CASE NOT EARLIER THAN 7 DAYS AFTER CONCRETE PLACEMENT
12. DO NOT USE VIBRATING ROLLERS OF MASS EXCEEDING ONE TONNE, OR ANY OTHER EQUIPMENT THAT MAY POTENTIALLY CAUSE DAMAGE TO EARTH RETAINING STRUCTURES. TO COMPACT FILL MATERIAL LOCATED WITHIN 2m BEHIND THE STRUCTURE.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

- E1. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS, AND ANY OTHER PLANS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED AND RELATING TO DEVELOPMENT AT THE SUBJECT SITE.
- E2. THE PRINCIPAL'S REPRESENTATIVE WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED IN THIS SPECIFICATION AND CONSTRUCTED FOLLOWING THE GUIDELINES OF "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION", DEPT OF HOUSING, 2004 (BLUE BOOK).
- E3. ALL BUILDERS AND SUB-CONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS.

CONSTRUCTION SEQUENCE

- E4. THE SOIL EROSION POTENTIAL ON THIS SITE SHALL BE MINIMISED. HENCE WORKS SHALL BE UNDERTAKEN IN THE FOLLOWING SEQUENCE :

a. INSTALL SEDIMENT FENCES, TEMPORARY CONSTRUCTION EXIT AND SANDBAG KERB INLET SEDIMENT TRAP.

b. UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

EROSION CONTROL

- E5. DURING WINDY CONDITIONS, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
- E6. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

FENCING

- E7. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
- E8. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
- E9. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
- E10. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

- E11. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
- E12. RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER ARE TO BE EMPTIED AS NECESSARY. DISPOSAL OF WASTE SHALL BE IN A MANNER APPROVED BY THE PRINCIPAL'S REPRESENTATIVE.

SITE INSPECTION & MAINTENANCE

- E13. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AFTER RAINFALL EVENTS TO ENSURE THAT THEY OPERATE EFFECTIVELY. REPAIR AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED.

STORMWATER NOTES

1. ALL 225 DIA. DRAINAGE PIPES AND LARGER SHALL BE CLASS "2" APPROVED SPIGOT AND SOCKET FRC OR RCP PIPES WITH RUBBER RING JOINTS. (U.N.O.)
2. ALL PIPE JUNCTIONS UP TO AND INCLUDING 450 DIA. AND TAPERS SHALL BE VIA PURPOSE MADE FITTINGS.
3. CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
4. ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
5. PRECAST PITS SHALL NOT BE USED UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER.
6. WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN. 50MM CONCRETE BED (OR 75MM THICK BED OF 12MM BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR ON THE ROCK. IN OTHER THAN ROCK, PIPES SHALL BE LAID ON A 75MM THICK SAND BED. IN ALL CASES BACKFILL THE TRENCH WITH SAND TO 200MM ABOVE THE PIPE. WHERE THE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH WITH SAND OR APPROVED GRANULAR BACKFILL COMPACTED IN 150MM LAYERS TO 98% STANDARD MAX. DRY DENSITY.
7. BEDDING SHALL BE (U.N.O.) TYPE HS2, IN ACCORDANCE WITH CURRENT RELEVANT AUSTRALIAN STANDARDS.
8. WHERE STORMWATER LINES PASS UNDER FLOOR SLABS SEWER GRADE RUBBER RING JOINTS ARE TO BE USED.
9. WHERE SUBSOIL DRAINAGE LINES PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED UPVC SEWER GRADE PIPE SHALL BE USED.
10. PROVIDE 3.0M LENGTH OF 100 DIA. SUBSOIL DRAINAGE PIPE WRAPPED IN FABRIC SOCK, AT UPSTREAM END OF EACH PIT.

B	ISSUE FOR SSDA	22.03.22	RG	MB
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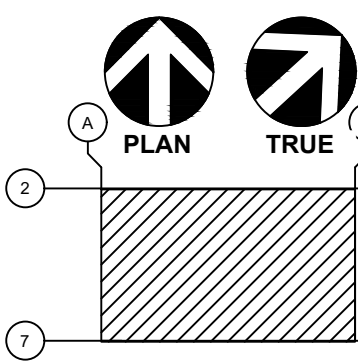
Client



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Keyplan



Project

SYD08 DATA CENTRE
57 STATION ROAD
SEVEN HILLS, NSW 2147

Drawing Title
NOTES

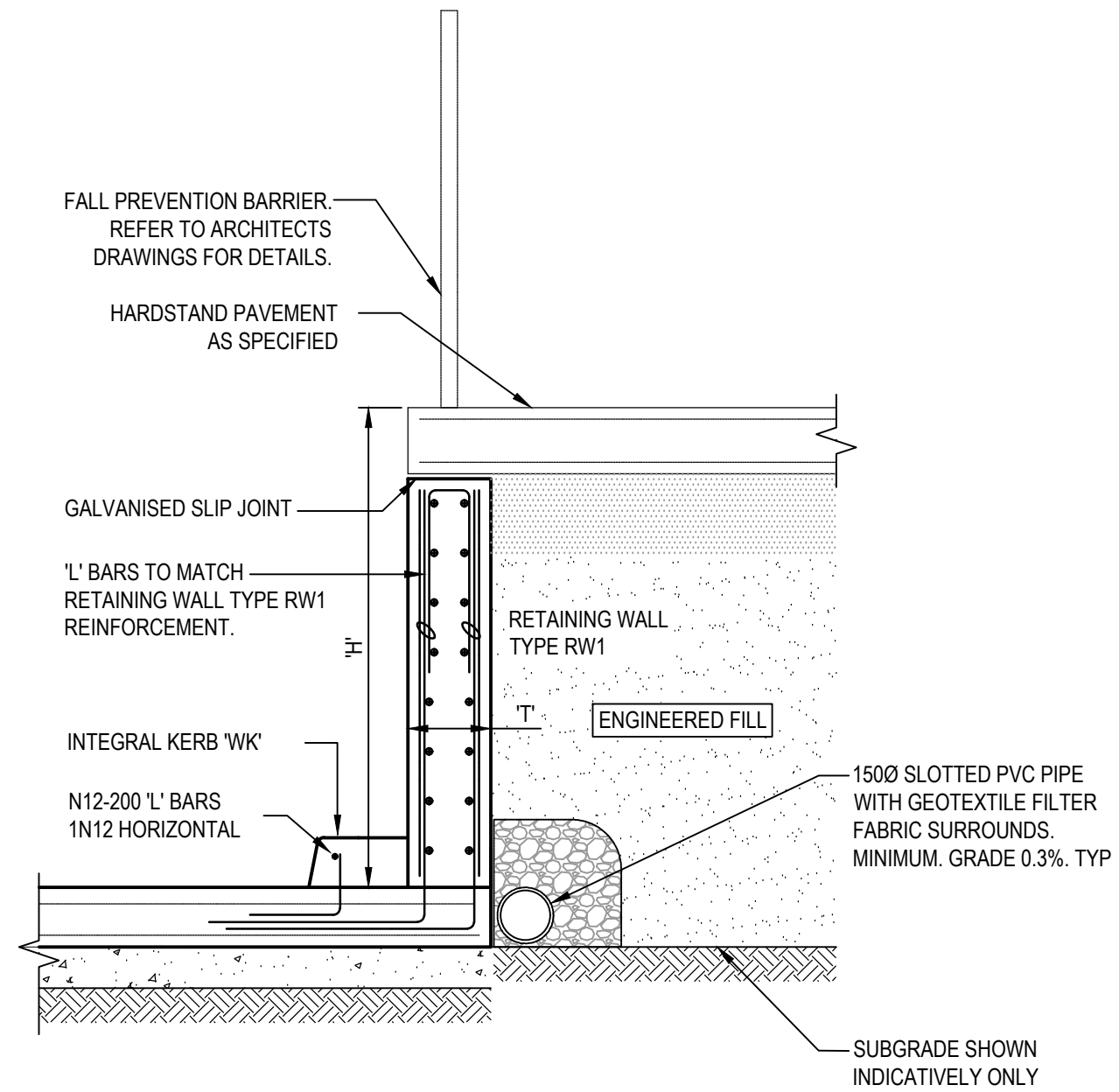
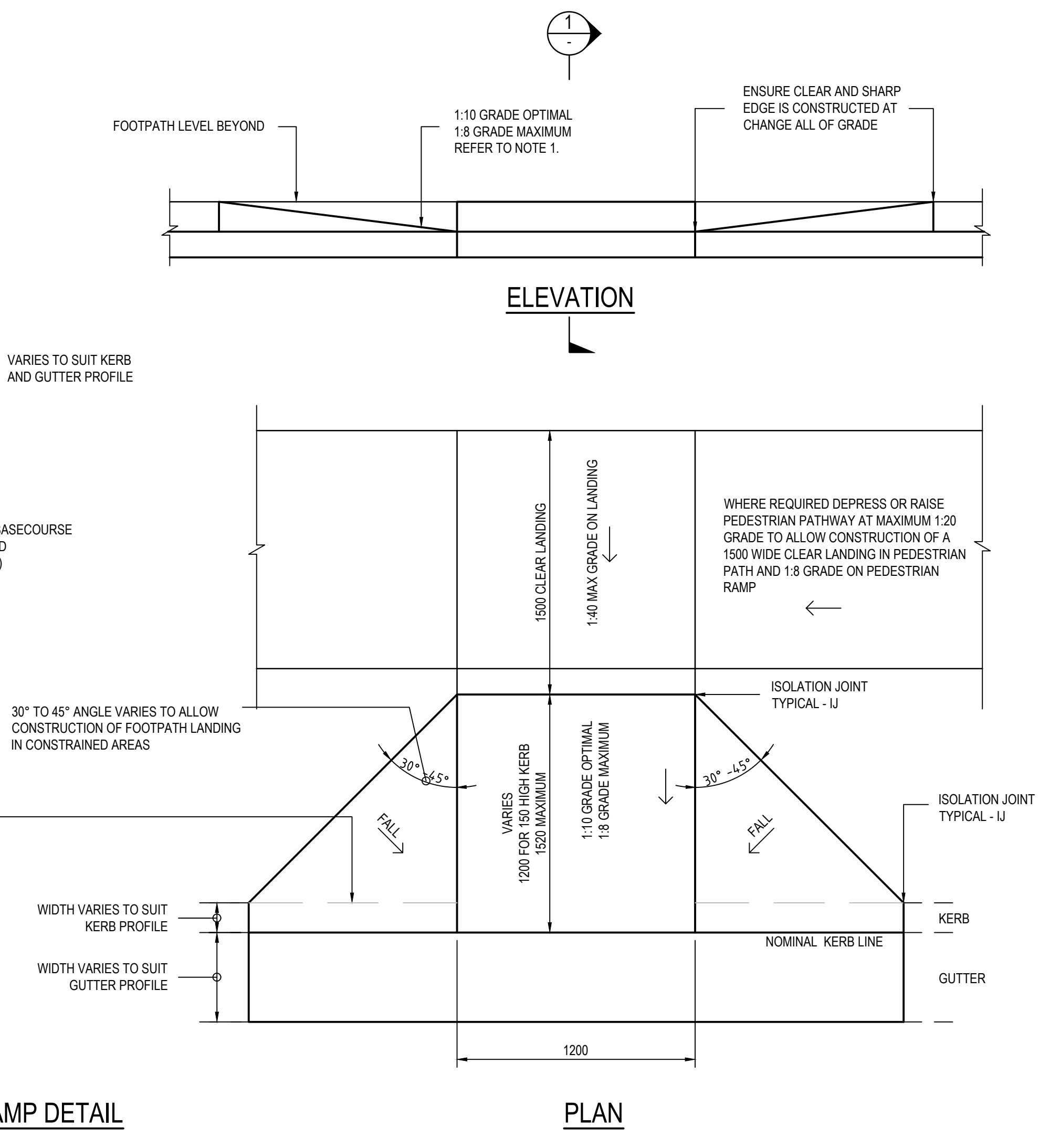
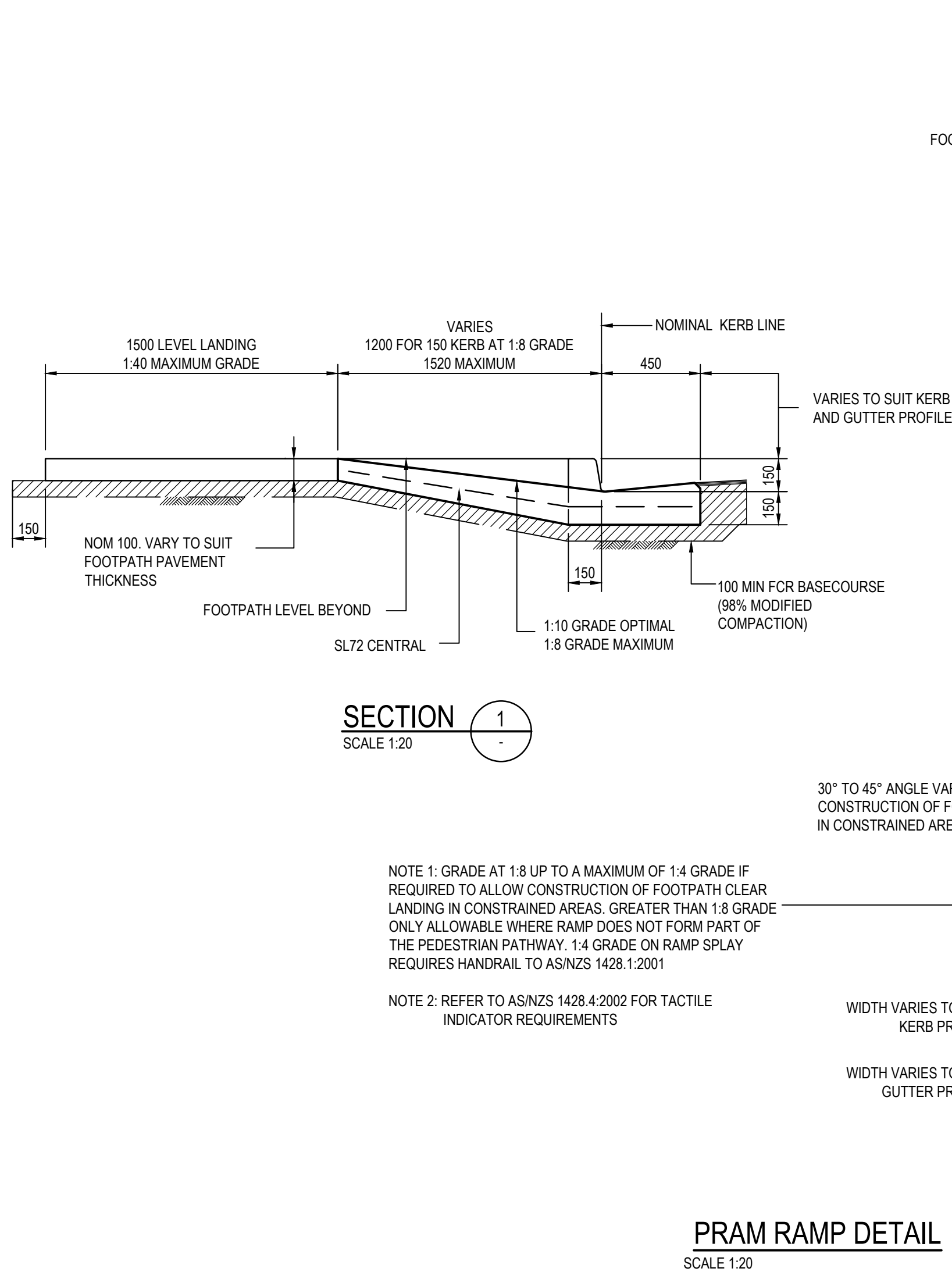
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Scale @ A0
N/A

Project No.
NSW202013

Drawing No.
NSW202013_C101.03

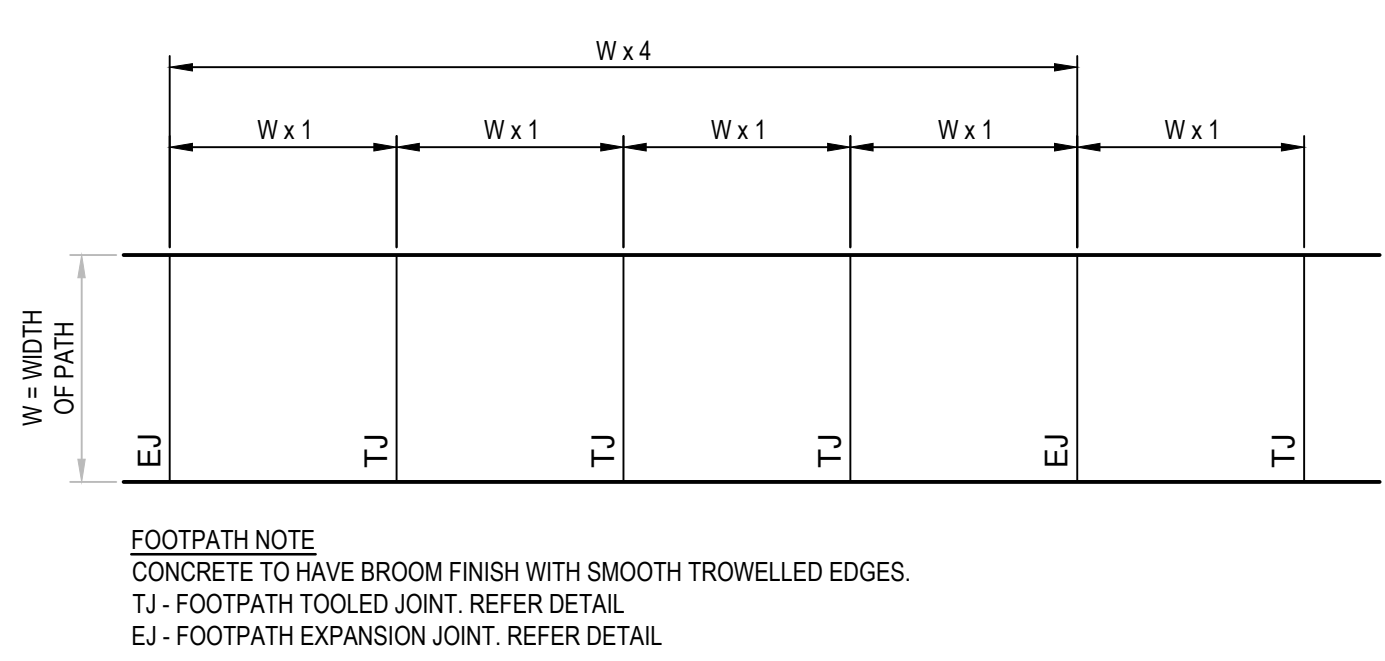
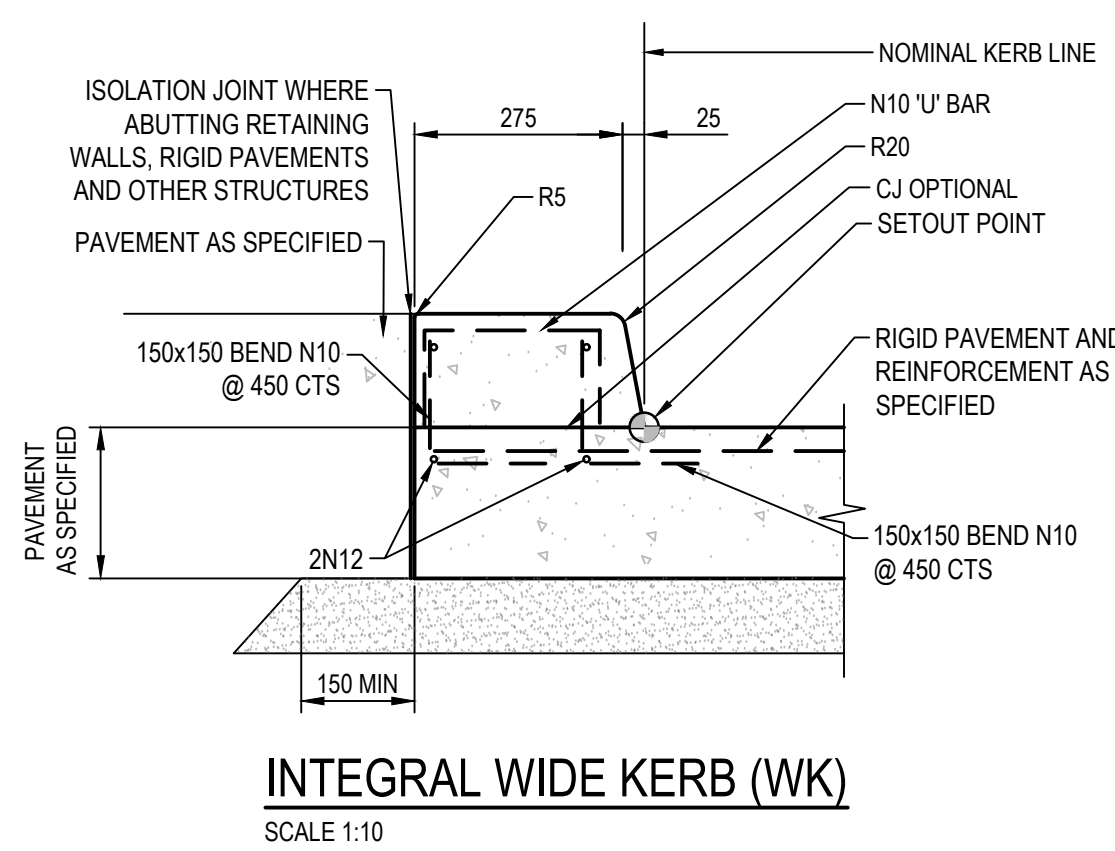
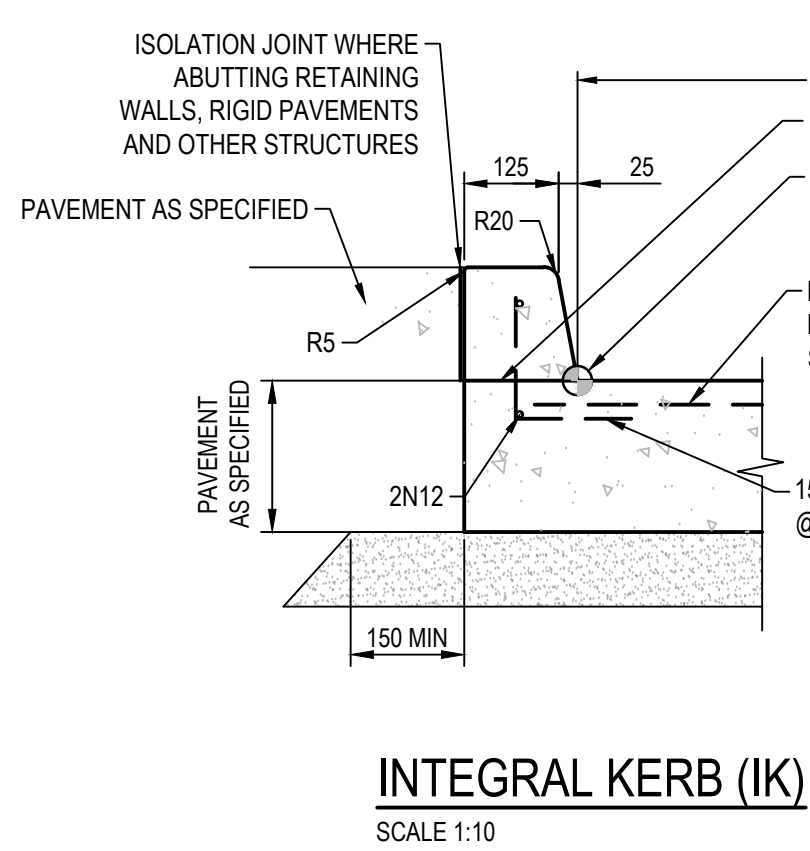
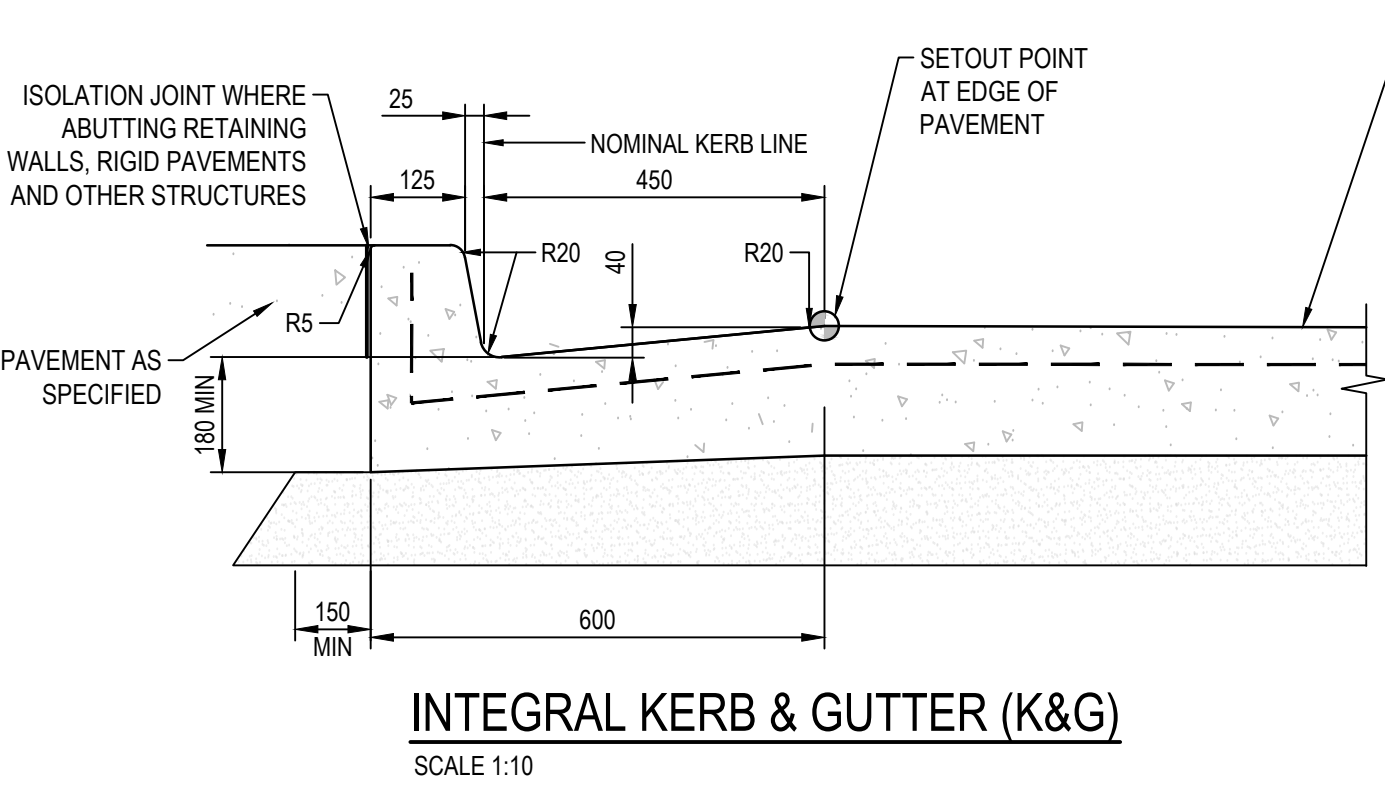
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TYPICAL LOADING DOCK RETAINING WALL DETAIL

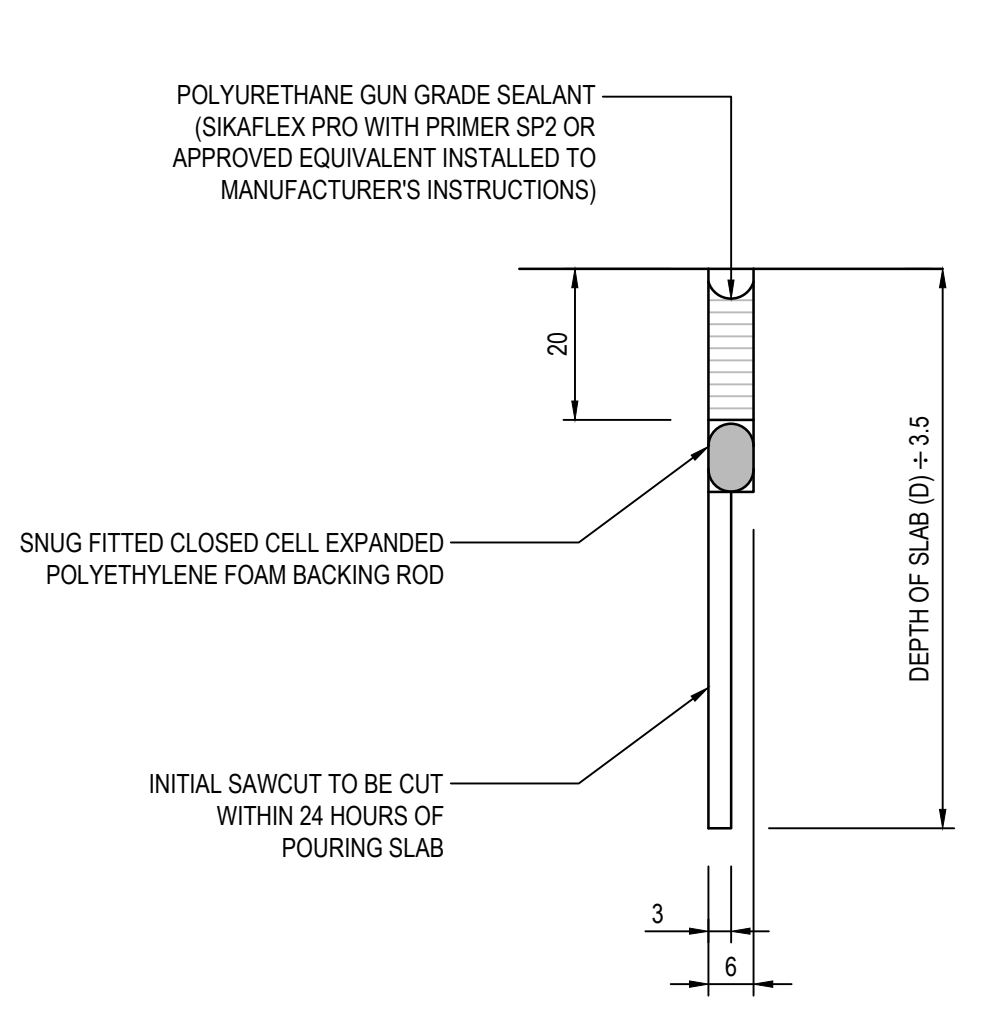
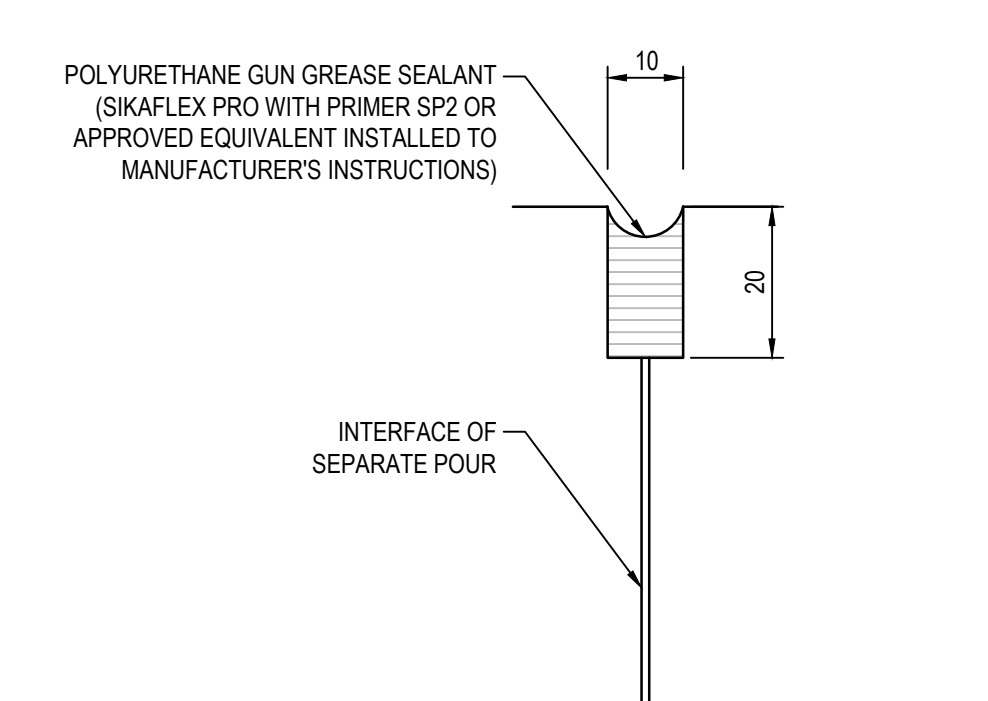
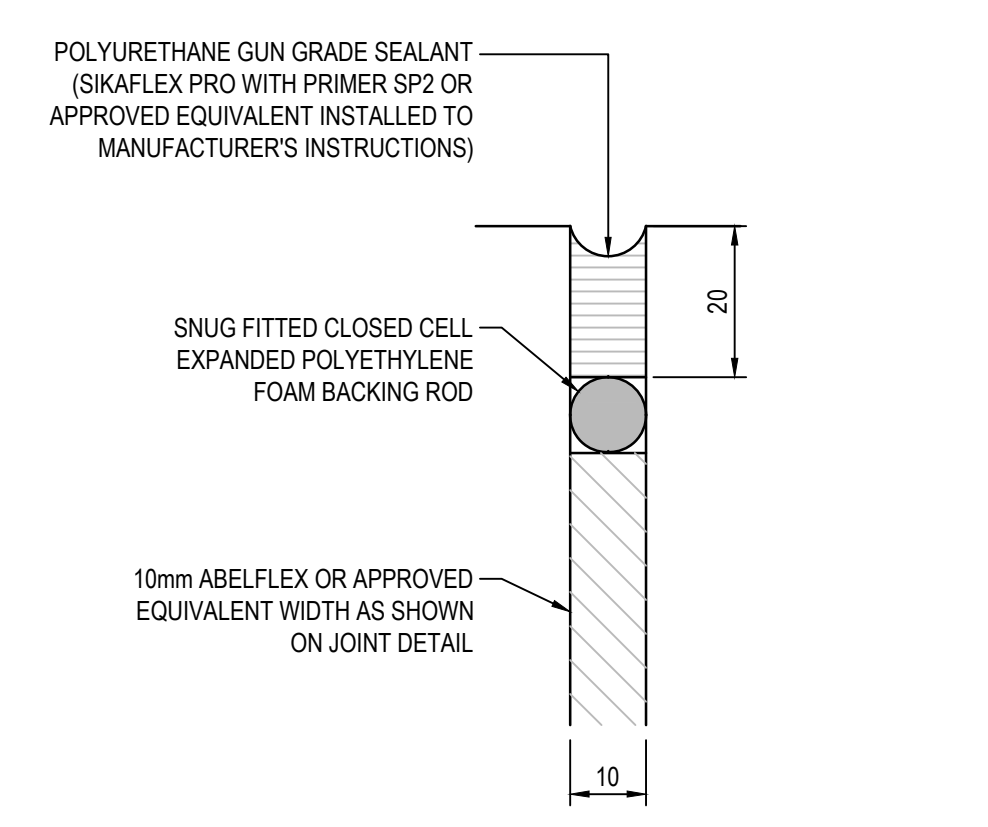
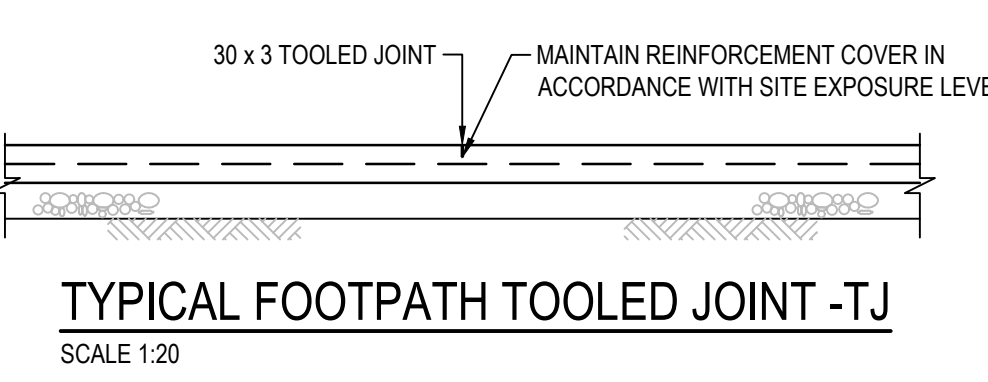
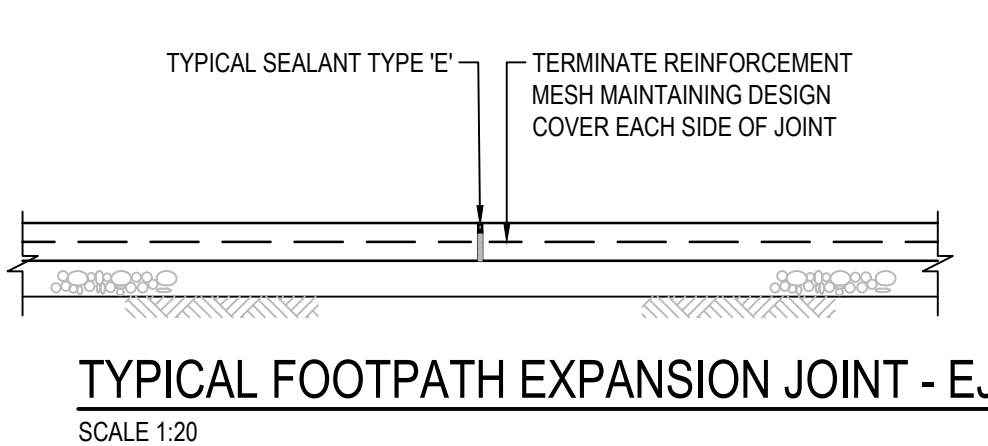
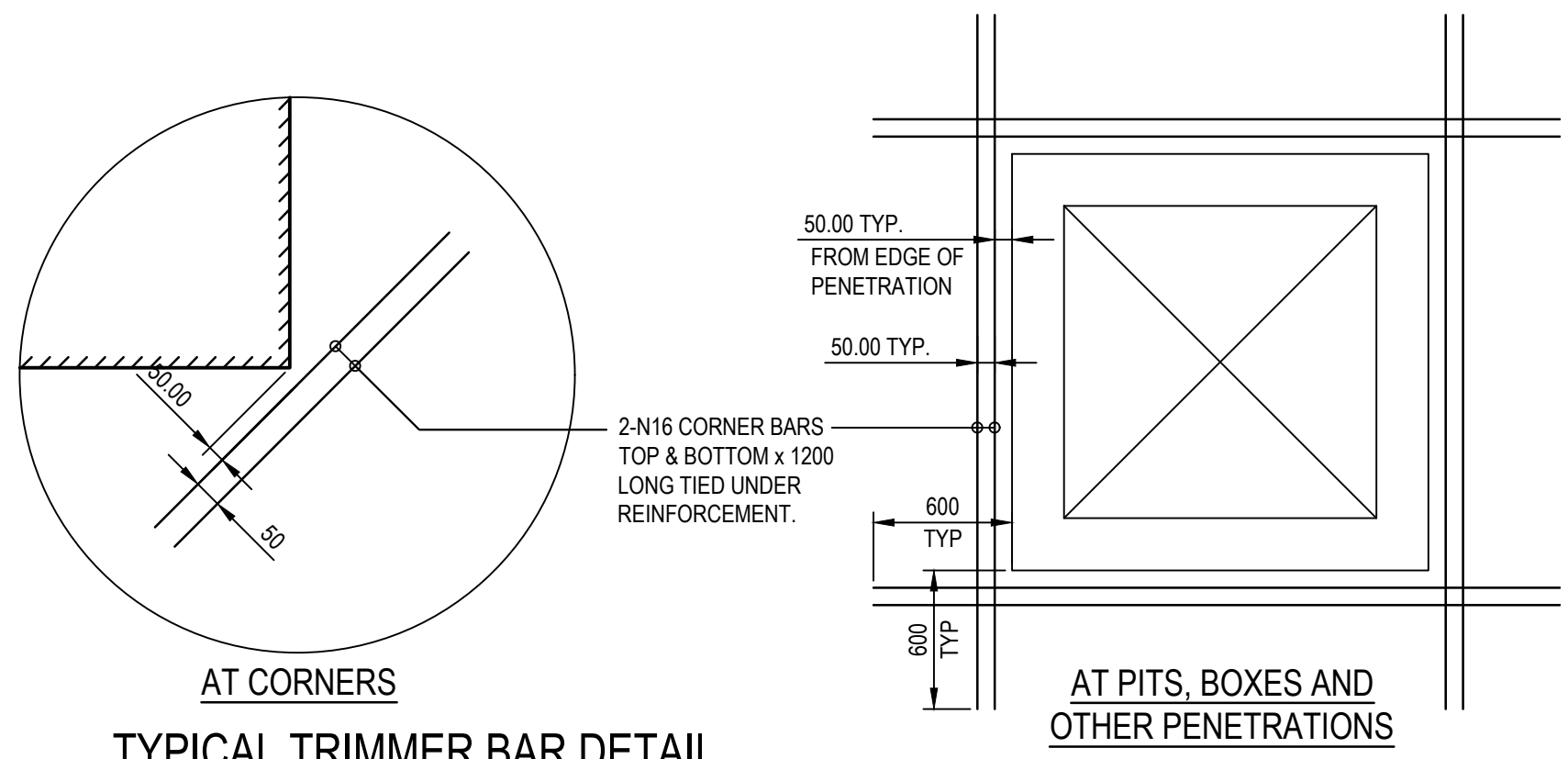
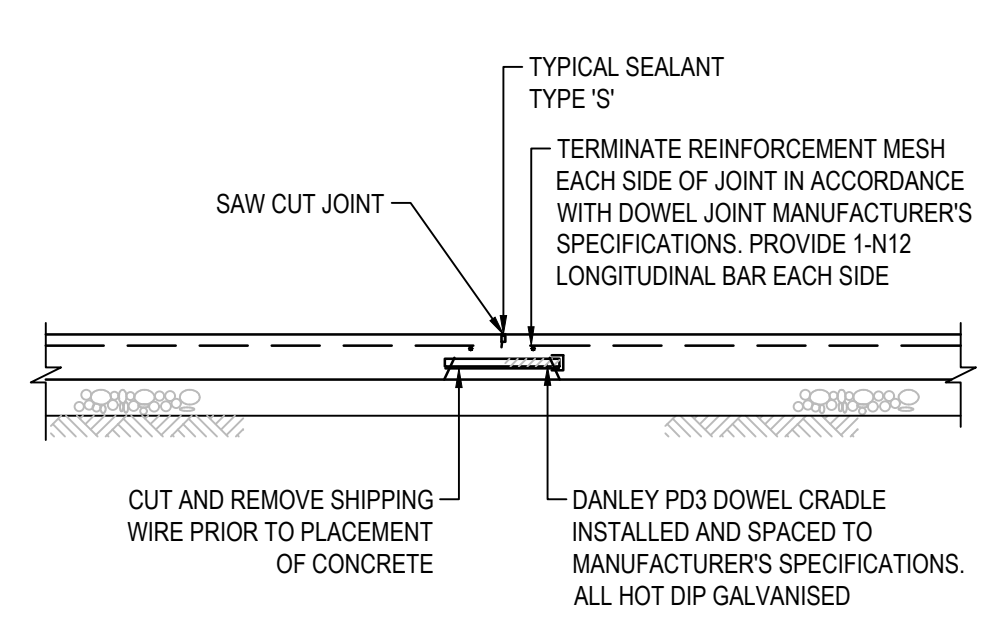
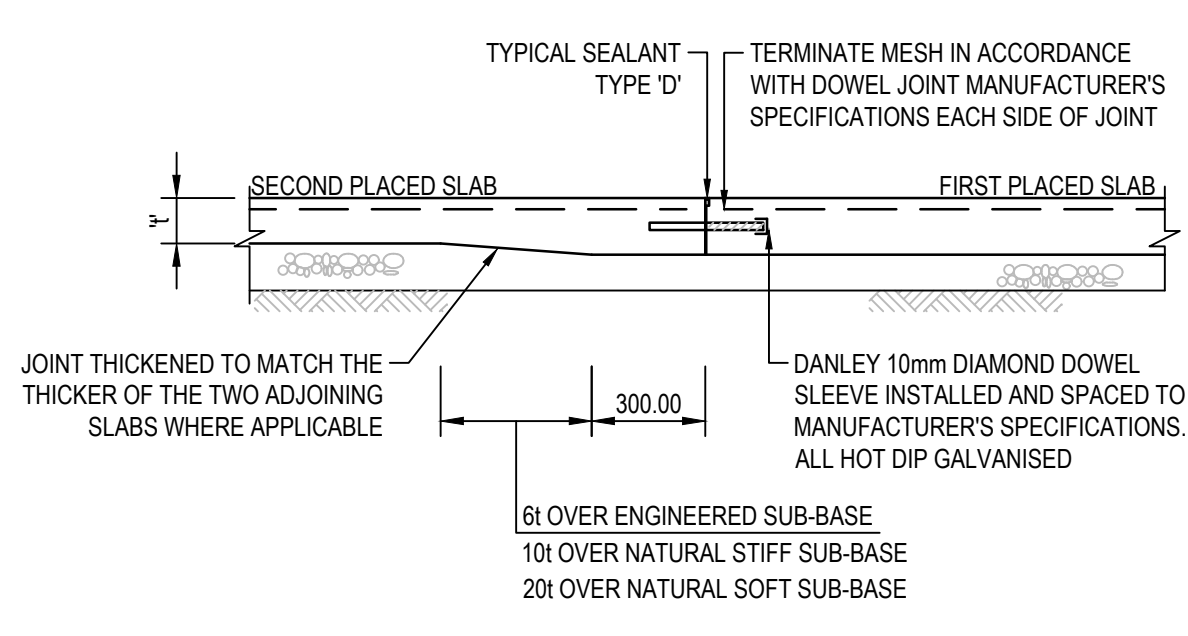
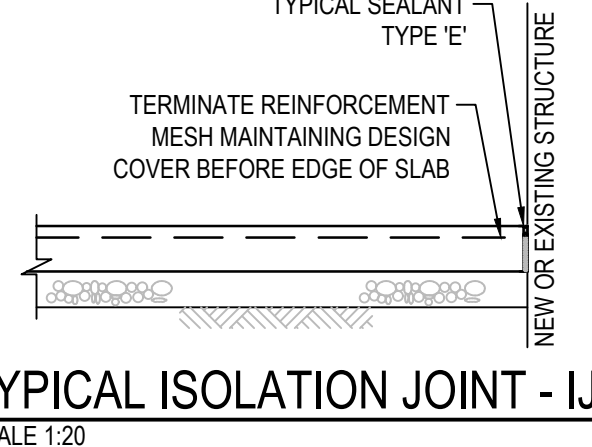
- NOTES:**
1. RETAINING WALL BASE TO BE FOUND ON GROUND WITH ALLOWABLE BEARING CAPACITY OF 150kPa OR BETTER T.B.C BY GEOTECHNICAL ENGINEER.
 2. WHERE ALLOWABLE BEARING IS INSUFFICIENT, FOOTINGS SHALL BE EXCAVATED UNTIL THE REQUIRED FOUNDING MATERIAL IS REACHED AND CONFIRMED BY GEOTECHNICAL ENGINEER. OVER EXCAVATION SHALL BE BACKFILLED WITH M5 CONCRETE.
 3. EXCAVATION OF BACKFILL FOR SERVICES INSTALLATION MUST BE REINSTATED TO REQUIREMENTS OF THE BACKFILL SPECIFICATION.
 4. ALL EXPOSED FACES OF CONCRETE RETAINING WALLS TO HAVE CLASS 2 SURFACE FINISH IN ACCORDANCE WITH AS 3610 U.N.O.

RETAINING WALL SCHEDULE					
TYPE	WALL HEIGHT	MIN. WALL THICKNESS	BASE WIDTH	MIN. BASE DEPTH	REINFORCEMENT
RW1	0 - 1500	300	1500	300	N16-200 EACH FACE



TYPICAL JOINT PLAN FOR FOOTPATHS

NTS



COMMERCIAL IN CONFIDENCE

B	ISSUE FOR SS&A	22.03.22	RG	MB
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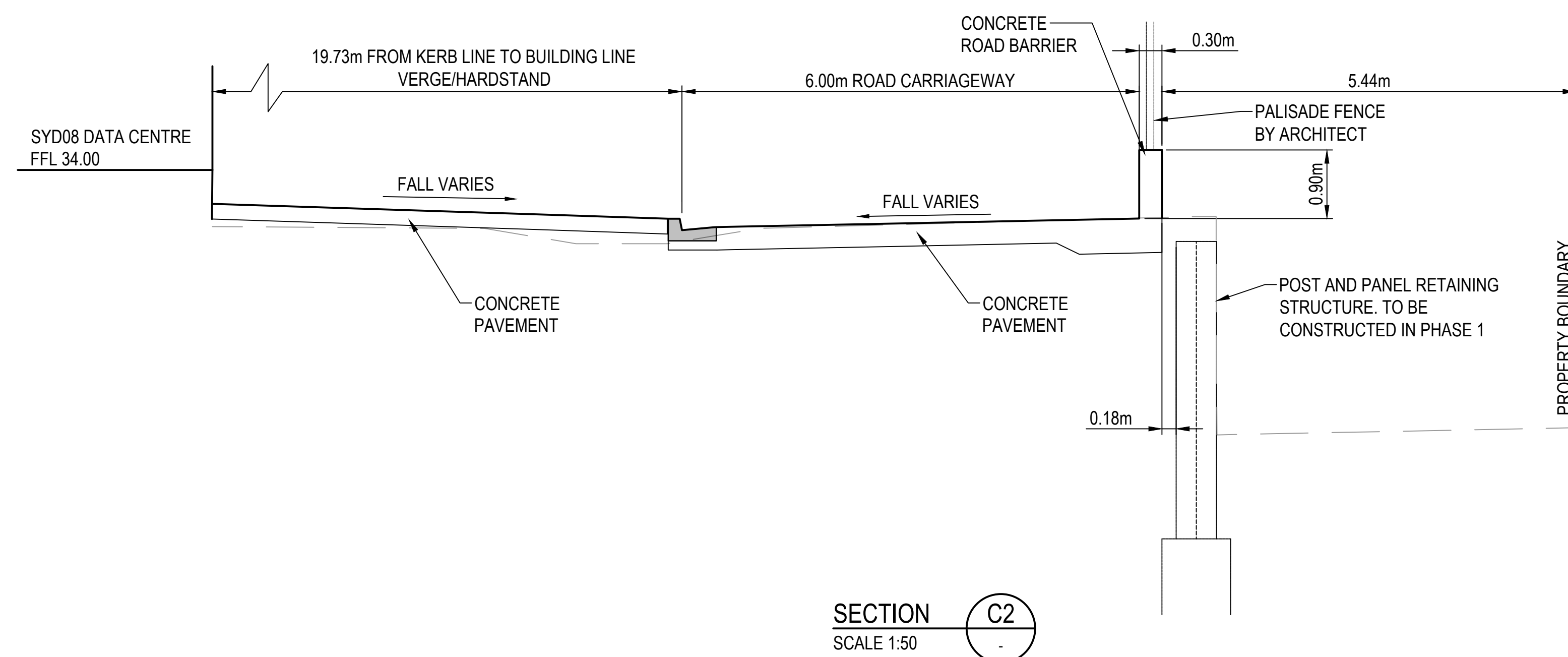
SYD08 DATA CENTRE

57 STATION ROAD SEVEN HILLS, NSW 2147

Drawing Title

DETAILS SHEET 1

Status	ISSUE FOR SS&A
Scale @ A0	AS SHOWN
Project No.	NSW202013
Drawing No.	NSW202013_C101.05



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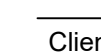


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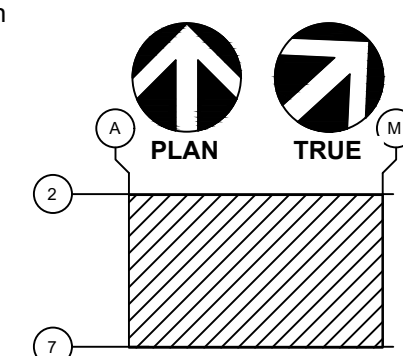


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Civil



Keyplan



Project
SYD08 DATA CENTRE
57 STATION ROAD
SEVEN HILLS, NSW 2147

Drawing Title
DETAILS
SHEET 2

Status **ISSUE FOR SSDA**

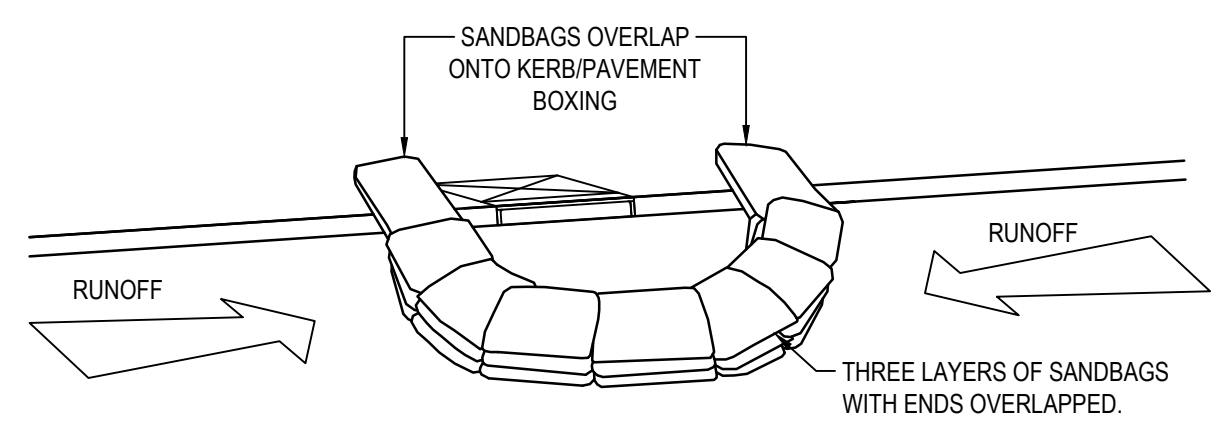
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Project No. NSW202013

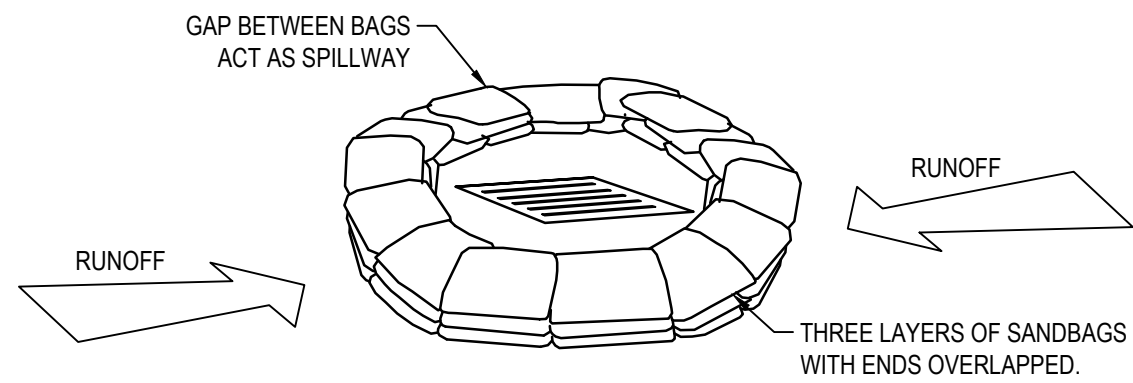
Drawing No. NSW202013_C101.06

1

COMMERCIAL IN CONFIDENCE



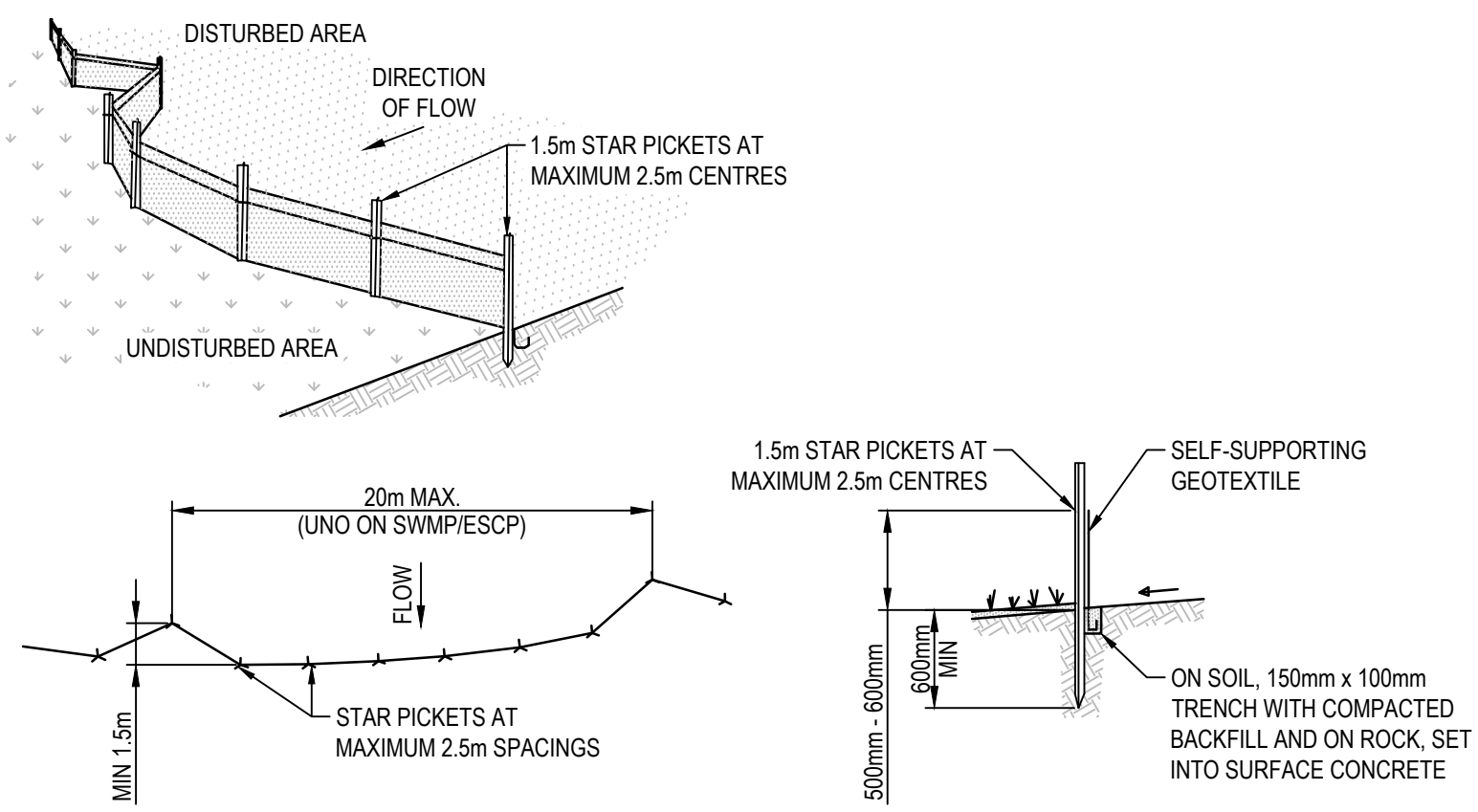
SANDBAG SEDIMENT TRAP - AT KERB SAG PIT



SANDBAG SEDIMENT TRAP - AT OTHER THAN KERB SAG PIT

SANDBAG SEDIMENT TRAP DETAILS

N.T.S.



PLAN

SECTION DETAIL

CONSTRUCTION NOTES

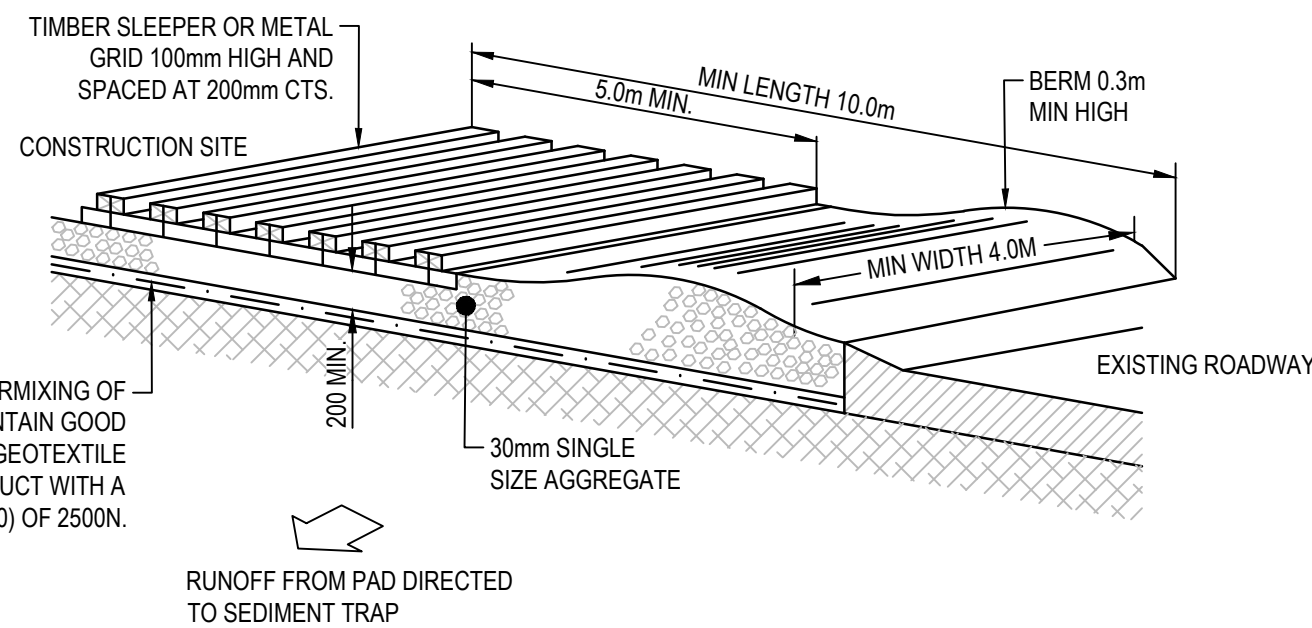
1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE.
2. DRIVE 1.5m LONG STAR PICKETS INTO GROUND, 2.5 METRES APART (MAX). ENSURE STAR PICKETS ARE FITTED WITH SAFETY CAPS.
3. DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
4. BACKFILL TRENCH OVER BASE OF FABRIC.
5. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
6. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.

SEDIMENT CONTROL FENCE

N.T.S.

NOTE
ENSURE THAT ALL UTILITY ASSETS ARE MAINTAINED AND PROTECTED AT ALL TIMES IN THE VICINITY OF THE TEMPORARY CONSTRUCTION EXIT.

GEOTEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS. THE GEOTEXTILE MAY BE WOVEN OR NEEDLE PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500N.



CONSTRUCTION NOTES

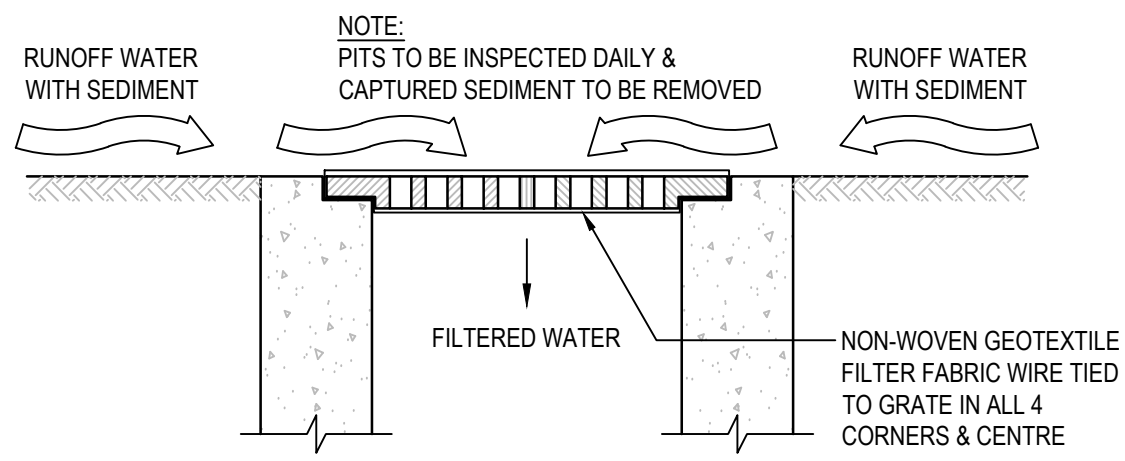
1. STRIP TOPSOIL AND LEVEL SITE.
2. COMPACT SUBGRADE.
3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING 30mm SINGLE SIZE AGGREGATE.
5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP WHERE THE SEDIMENT IS COLLECTED AND REMOVED.

MAINTENANCE NOTES

THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT OFF THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL GRAVEL AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED OFF THE CONSTRUCTION SITE MUST BE REMOVED IMMEDIATELY.

TEMPORARY STABILISED CONSTRUCTION EXIT

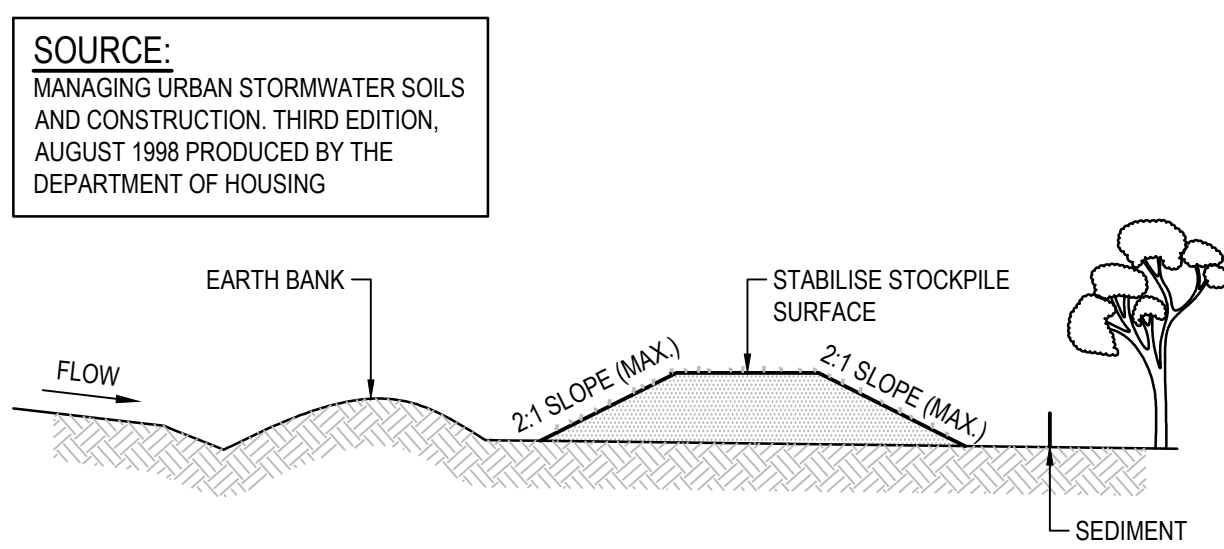
N.T.S.



INLET TRAP

N.T.S.

NOTE
TO BE USED IN PAVED AREAS WHERE TRAFFIC ACCESS IS REQUIRED

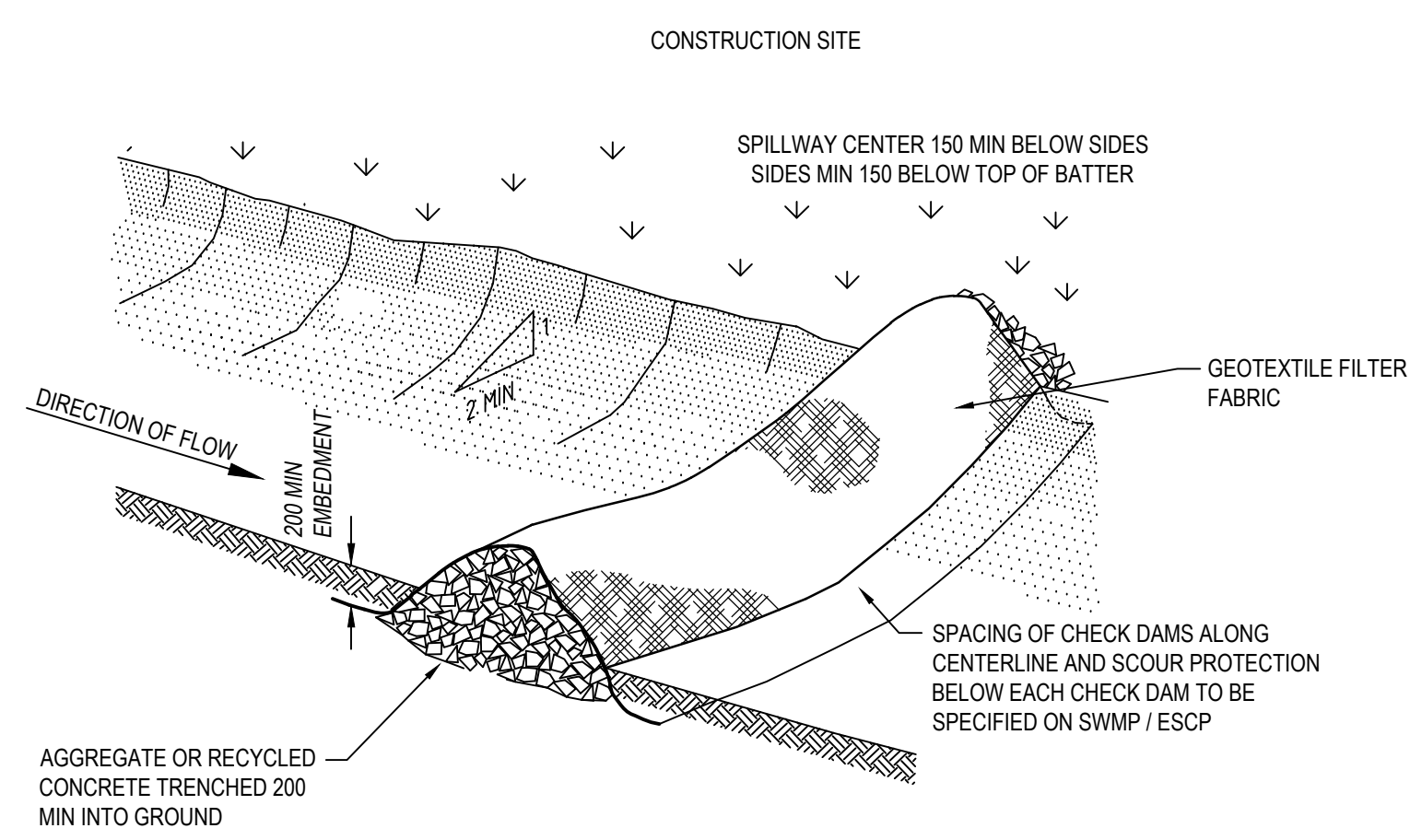


CONSTRUCTION NOTES

1. LOCATE STOCKPILE AT LEAST 5 METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOWS, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS A LOW, FLAT, ELONGATED MOUND.
3. WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METERS IN HEIGHT.
4. REVEGETATE IN ACCORDANCE WITH THE SWMP/ESCP.
5. CONSTRUCT EARTH BANK (STANDARD DRAWING 5-2) ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND A SEDIMENT FENCE (STANDARD DRAWING 6-7) 1 TO 2 METRES DOWNSLOPE OF STOCKPILE.

STOCKPILES

N.T.S.



CHECK DAM - ROCK

SCALE 1:20

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B	ISSUE FOR SSDA	22.03.22	RG	MB
A	ISSUE FOR SSDA	14.03.22	RG	MB
No.	Description	Date	By	CHK

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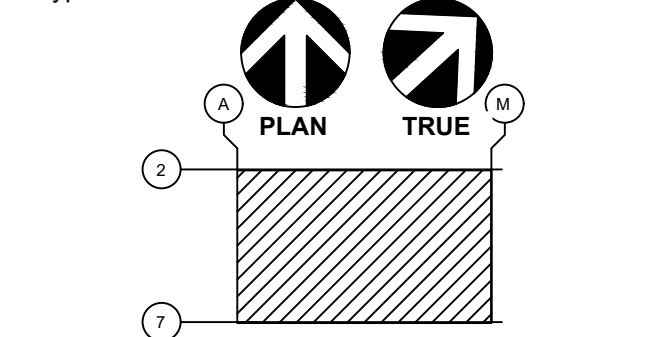
Civil



Client



Keyplan



Project
SYD08 DATA CENTRE
57 STATION ROAD
SEVEN HILLS, NSW 2147

Drawing Title
DETAILS
SHEET 3

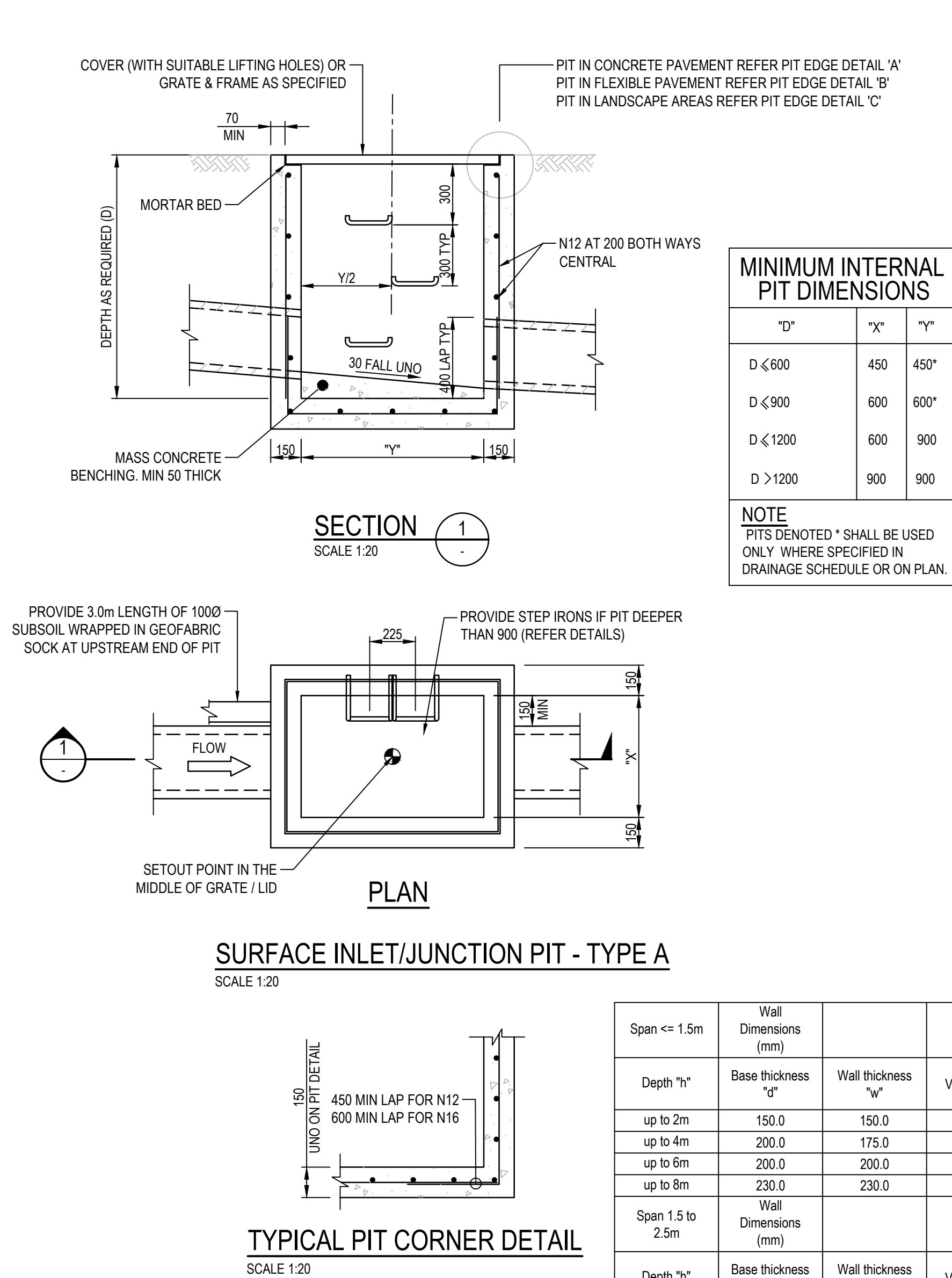
Status
ISSUE FOR SSDA

Scale @ A0
AS SHOWN

Project No.
NSW202013

Drawing No.
NSW202013_C101.07

B



MINIMUM INTERNAL PIT DIMENSIONS			
"D"	"X"	"Y"	
D ≤ 600	450	450	
D ≤ 900	600	600	
D ≤ 1200	600	900	
D > 1200	900	900	

NOTE
PITS DENOTED * SHALL BE USED ONLY WHERE SPECIFIED IN DRAINAGE SCHEDULE OR ON PLAN

250mm (min)

180mm (min)

DANGER

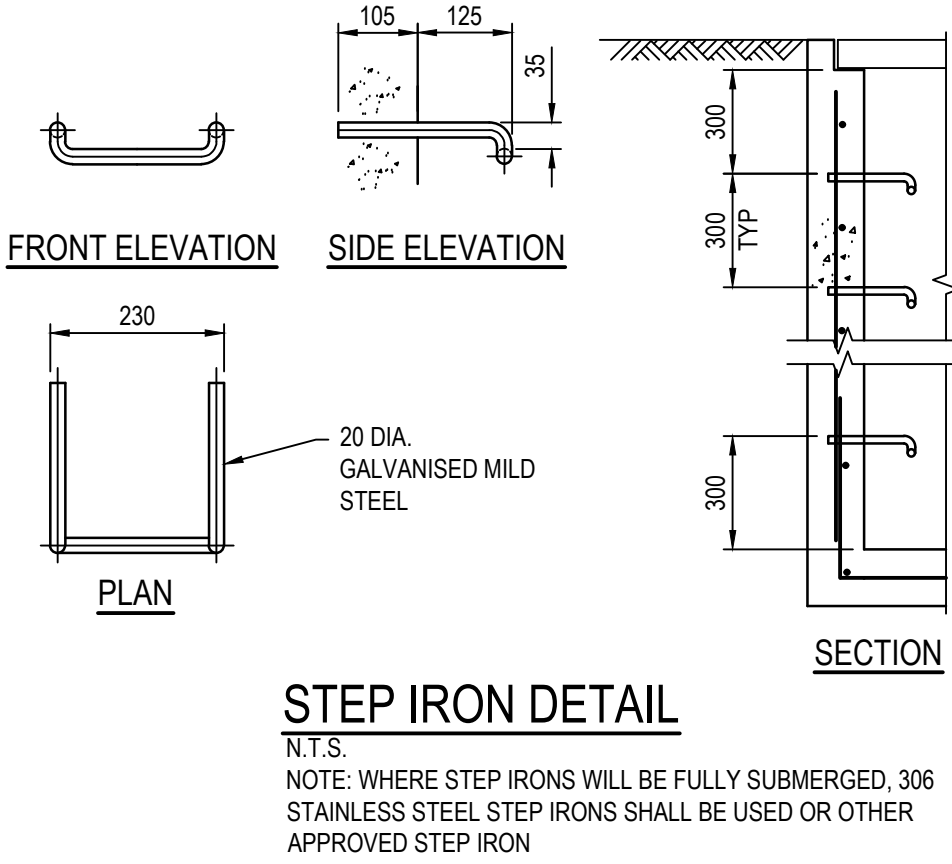
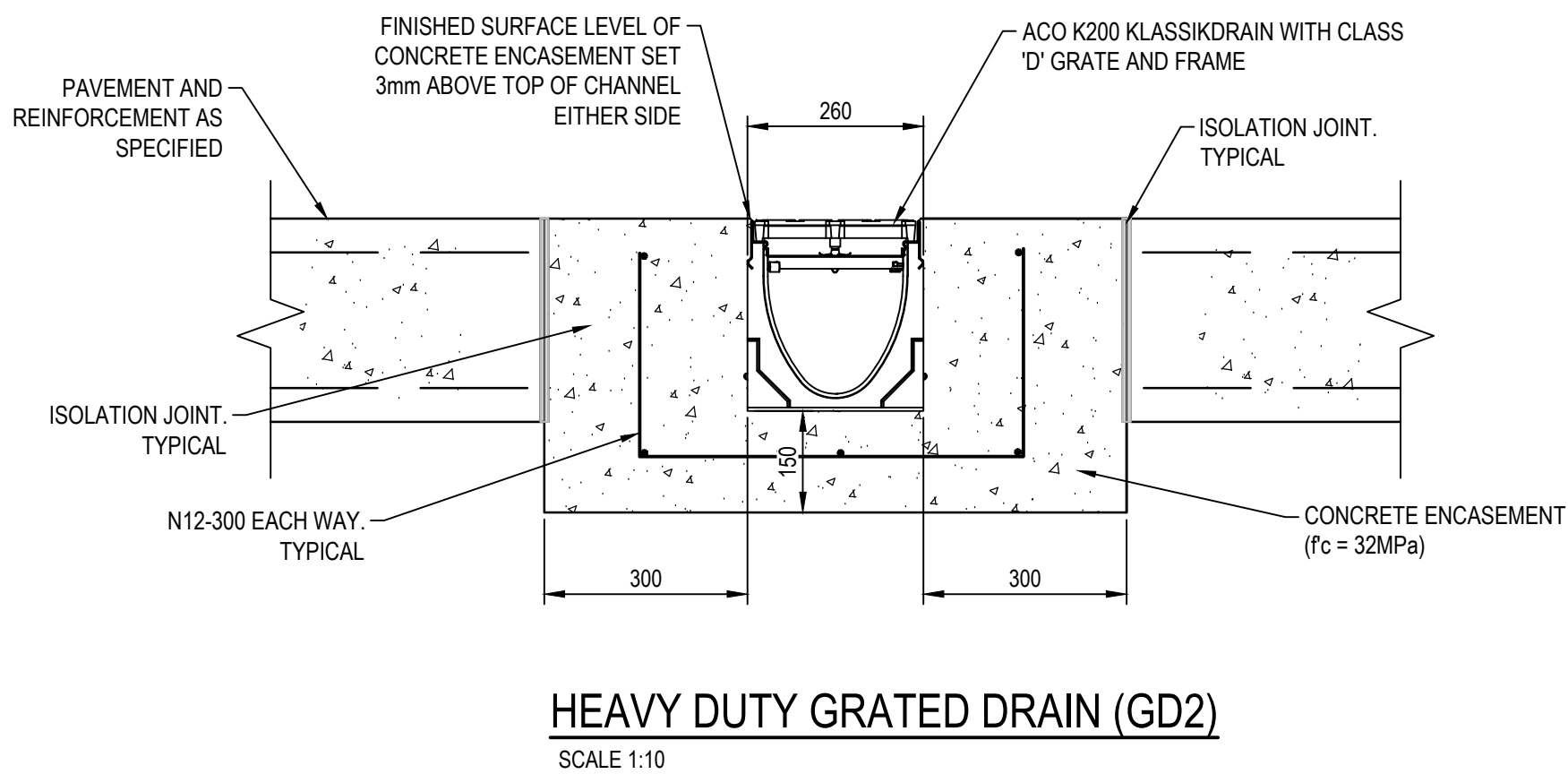
CONFINED SPACE

NO ENTRY WITHOUT CONFINED SPACE TRAINING

CONFINED SPACE DANGER SIGN

NOTES

- A CONFINED SPACE SIGN SHALL BE PLACED NEXT TO EACH AND EVERY ACCESS POINT THEY ARE VISIBLE TO PERSON ENTERING ANY BELOW GROUND TANK OR PIT.
- COLOURS:
 - "DANGER" AND BACKGROUND - WHITE
 - ELLIPTICAL AREA - RED
 - LETTERING AND BORDER - BLACK
- MINIMUM OF THE SIGN:
 - LARGE ENTRIES - 300mm x 450mm
 - SMALL ENTRIES - 250 mm x 180mm
- SIGN TO BE MADE FROM COLOUR BONDED ALUMINIUM OR POLYPROPYLENE
- SIGN FIXED USING HILTI CHEMSETS OR EPOXY



Span <= 1.5m	Wall Dimensions (mm)				
Depth "h"	Base thickness "g"	Wall thickness "w"	Vertical reinf.	Hor reinf.	Base Reinf. BW
up to 2m	150.0	150.0	N12@200	N12@200	N12@200
up to 4m	200.0	175.0	N12@200	N12@200	N12@200
up to 6m	200.0	200.0	N12@200	N12@200	N12@200
up to 8m	230.0	230.0	N16@200	N16@200	N16@200
Span 1.5 to 2.5m	Wall Dimensions (mm)				
Depth "h"	Base thickness "g"	Wall thickness "w"	Vertical reinf.	Hor reinf.	Base Reinf. BW
up to 2m	150.0	200.0	N12@200	N12@200	N12@200
up to 4m	200.0	200.0	N16@200	N16@200	N16@200
up to 6m	230.0	230.0	N16@200	N16@200	N16@200
up to 8m	250.0	250.0	N16@200	N16@200	N16@200

PIT DIMENSION TABLE

NOTE: FOR PIT DIMENSIONS AND REINFORCEMENT REFER TABLE ABOVE

B	ISSUE FOR SSDA	22.03.22	RG	MB
A	ISSUE FOR SSDA	14.03.22	RG	MB
No.	Description	Date	By	CHK

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PLAN TRUE

1 2 3 4

Project

SYD08 DATA CENTRE

57 STATION ROAD

SEVEN HILLS, NSW 2147

Drawing Title

DETAILS

SHEET 4

Status	ISSUE FOR SSDA
Scale @ A0	AS SHOWN
Project No.	NSW202013
Drawing No.	NSW202013_C101.08

PHASING LEGEND

PHASE 1

APPROVED WORKS TO BE CONSTRUCTED AS PART OF THE DEVELOPMENT
CONSENT DA-21-01058 ISSUED BY BLACKTOWN CITY COUNCIL

PHASE 1
CONSTRUCTED UNDER SYD09 DEVELOPMENT
APPLICATION NUMBER DA-21-01058

PHASE 1
STORMWATER INFRASTRUCTURE CONSTRUCTED UNDER
SYD09 DEVELOPMENT APPLICATION NUMBER DA-21-01058

PHASE 1
RETAINING WALL

PHASE 2

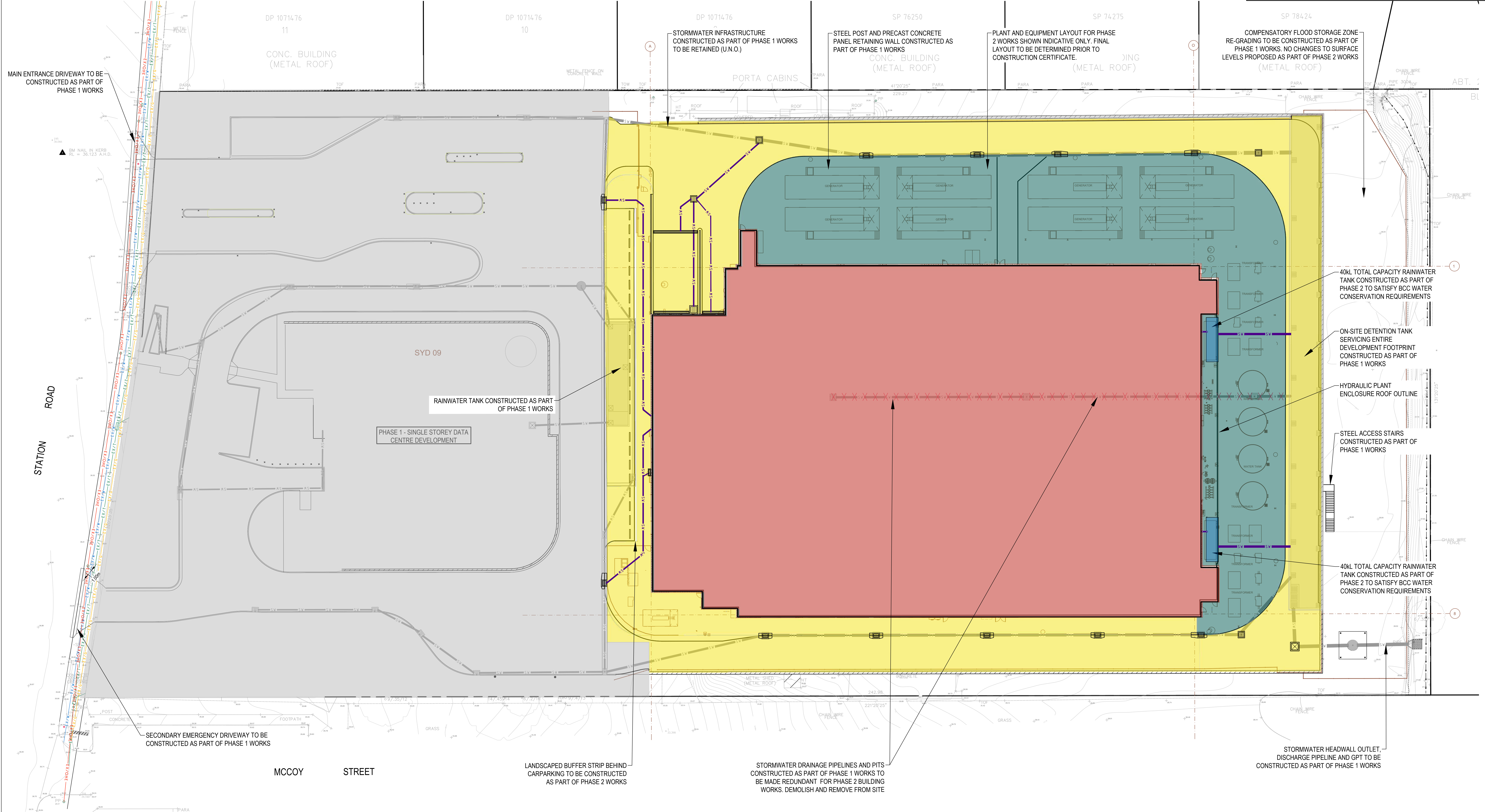
ROADWAYS AND GENERAL HARDSTAND

PHASE 2
PLANT AND GENERATOR YARD HARDSTAND

PHASE 2
DATA CENTRE BUILDING

PHASE 2
STORMWATER AND DRAINAGE PITS AND PIPELINES

PHASE 1
REDUNDANT STORMWATER INFRASTRUCTURE TO
BE DECOMMISSIONED AS PART OF PHASE 2 WORKS



B	ISSUE FOR SSDA	22.03.22	RG	MB
A	ISSUE FOR SSDA	14.03.22	RG	MB
No.	Description	Date	By	CHK

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Keyplan

PLAN

TRUE

Project

SYD08 DATA CENTRE
57 STATION ROAD
SEVEN HILLS, NSW 2147

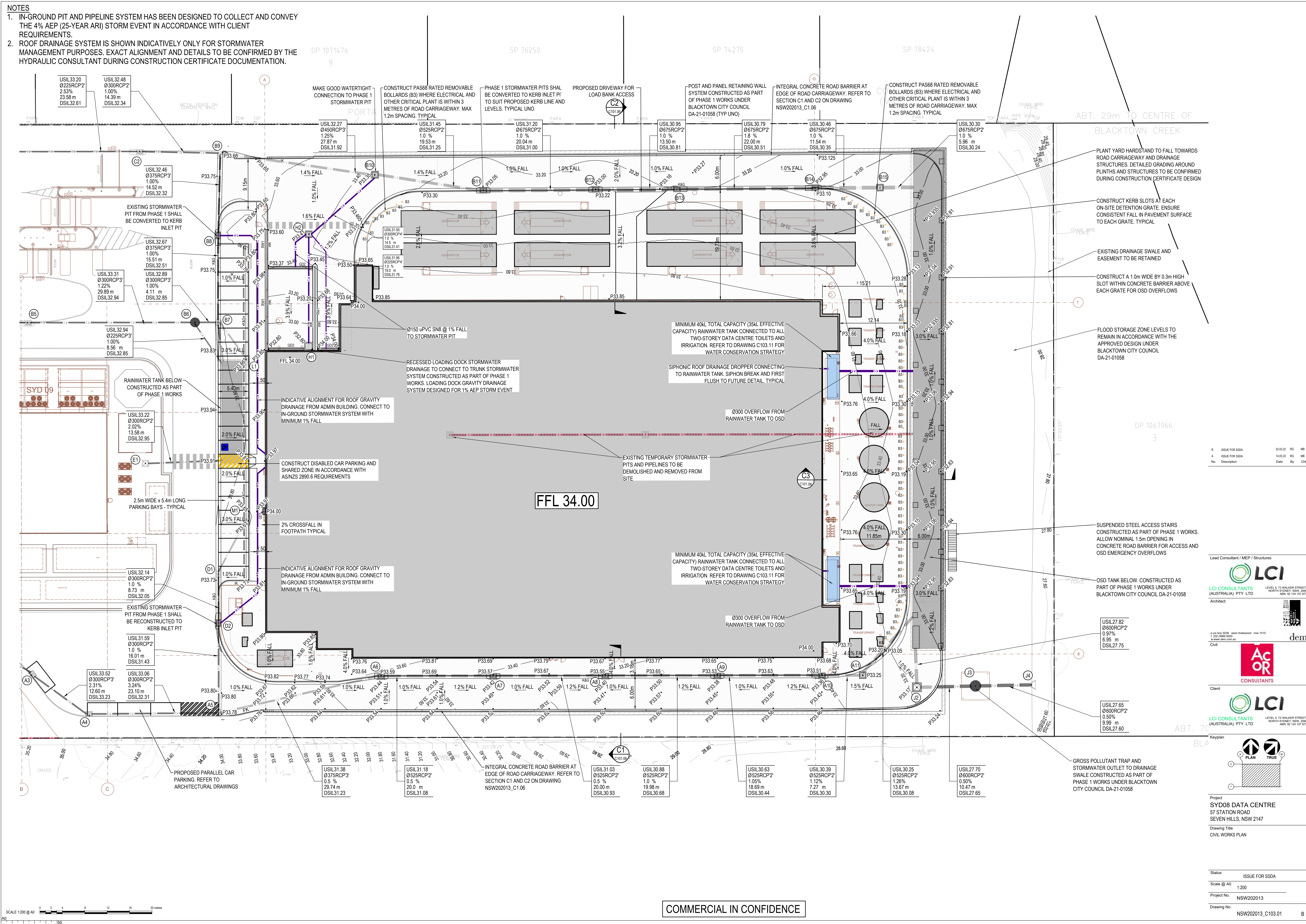
Drawing Title

GENERAL ARRANGEMENT AND PHASING PLAN

Status	ISSUE FOR SSDA
Scale @ A0	1:250
Project No.	NSW202013
Drawing No.	NSW202013_C101.10

COMMERCIAL IN CONFIDENCE

Notes: 1. IN-GROUND PIT AND PIPELINE SYSTEM HAS BEEN DESIGNED TO COLLECT AND CONVEY THE 4% AEP (25-YEAR ARI) STORM EVENT IN ACCORDANCE WITH CLIENT REQUIREMENTS. 2. ROOF DRAINAGE SYSTEM IS SHOWN INDICATIVELY ONLY FOR STORMWATER MANAGEMENT PURPOSES. EXACT ALIGNMENT AND DETAILS TO BE CONFIRMED BY THE HYDRAULIC CONSULTANT DURING CONSTRUCTION CERTIFICATE DOCUMENTATION.



B	ISSUE FOR SSDA	22.03.22	RG	MB
A	ISSUE FOR SSDA	14.03.22	RG	MB
No.	Description	Date	By	CHK

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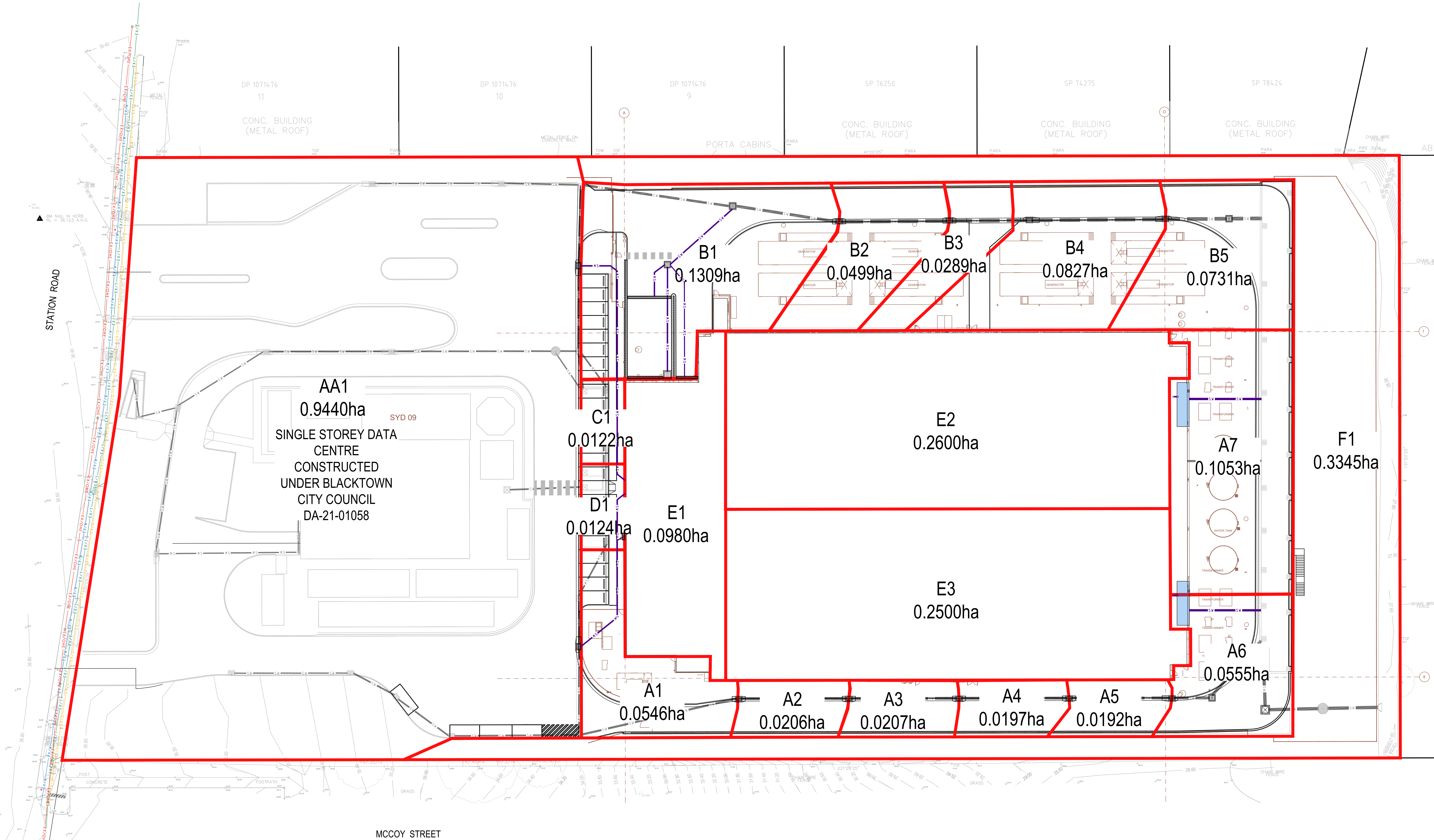
PLAN TRUE

Project: SYD08 DATA CENTRE
57 STATION ROAD
SEVEN HILLS, NSW 2147
Drawing Title: CIVIL WORKS PLAN

Status	ISSUE FOR SSDA
Scale @ A0	1:200
Project No.	NSW202013
Drawing No.	NSW202013_C103.01

COMMERCIAL IN CONFIDENCE

NAME	AREA (Ha)	BYPASS OR OSD	REMARKS
AA1	0.9440	OSD	DATA CENTRE CONSTRUCTED UNDER BLACKTOWN CITY COUNCIL DA-21-01058
A1	0.0531	OSD	
A2	0.0206	OSD	
A3	0.0207	OSD	
A4	0.0197	OSD	
A5	0.0192	OSD	
A6	0.0555	OSD	
A7	0.1053	OSD	
B1	0.1309	OSD	
B2	0.0499	OSD	
B3	0.0289	OSD	
B4	0.0827	OSD	
B5	0.0731	OSD	
C1	0.0122	OSD	
D1	0.0124	OSD	
E1	0.0980	OSD	
E2	0.2600	OSD	ROOF TO RAINWATER TANK
E3	0.2500	OSD	ROOF TO RAINWATER TANK
F1	0.3338	BYPASS	
TOTAL TO OSD	2.2362		TOTAL CATCHMENT TO OSD
EXTERNAL	0.3338	BYPASS	EXTERNAL AREA TO RETAINING WALL
TOTAL	2.5700		TOTAL SITE CATCHMENT INCLUDING BYPASS

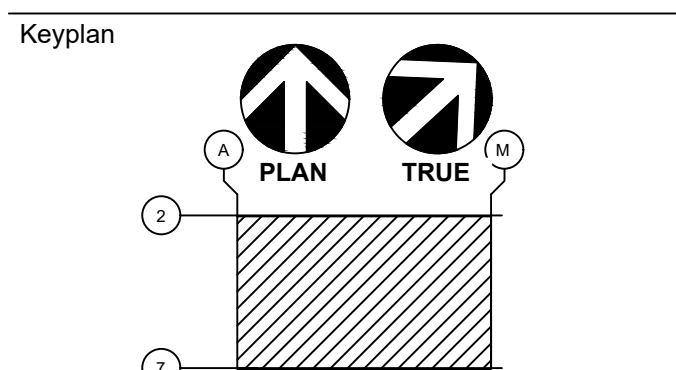


C	ISSUE FOR SSDA	22.03.22	RG	MB
B	ISSUE FOR SSDA	18.03.22	RG	MB
A	ISSUE FOR SSDA	14.03.22	RG	MB
No.	Description	Date	By	CHK

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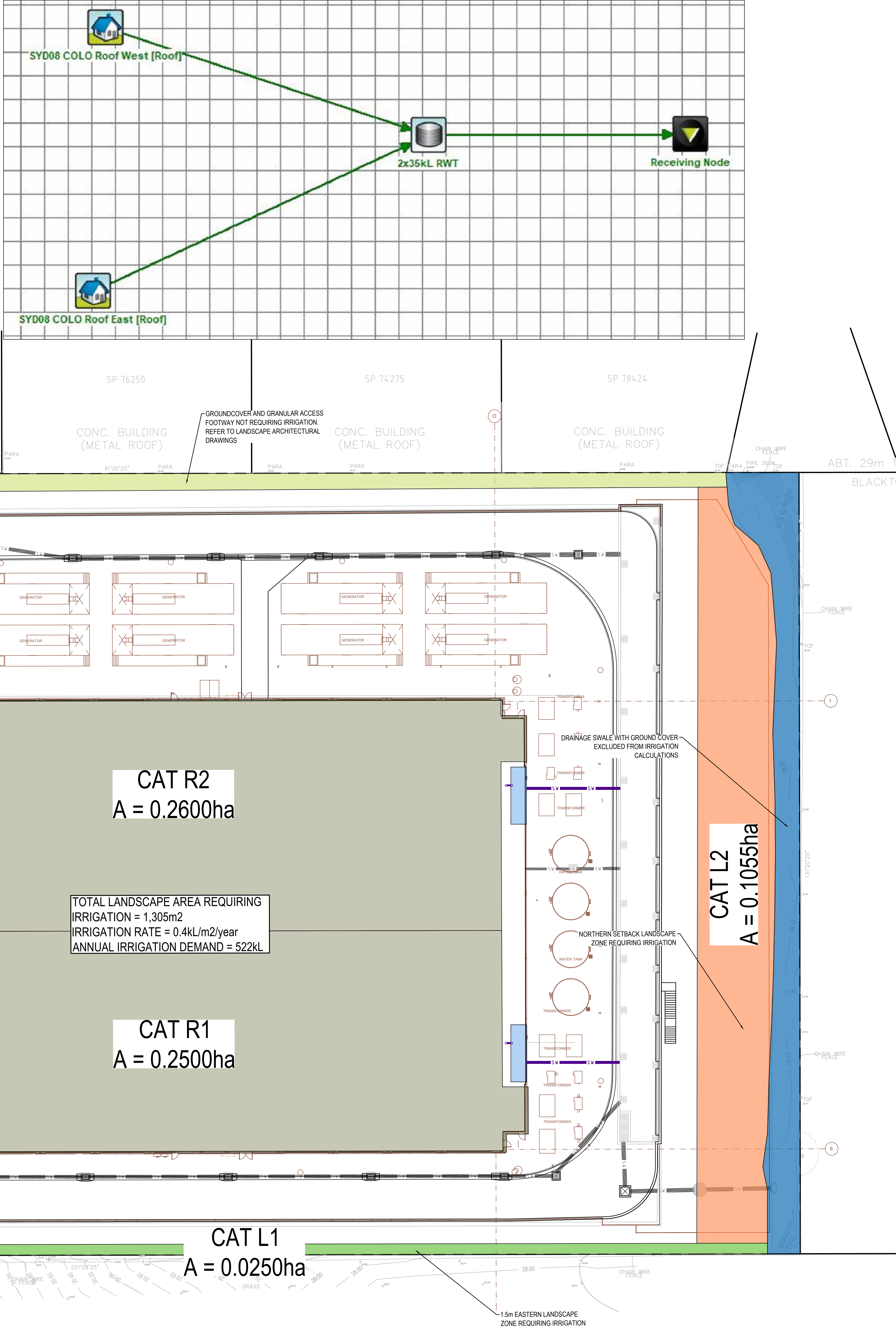
Project
SYD08 DATA CENTRE
57 STATION ROAD
SEVEN HILLS, NSW 2147
Drawing Title
STORMWATER CATCHMENT PLAN

Status
ISSUE FOR SSDA
Scale @ A0
1:250
Project No.
NSW202013
Drawing No.
NSW202013_C103.10

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- NOTES
1. REFER TO LANDSCAPE ARCHITECTURAL DRAWINGS FOR DETAILS OF PLANTING AREAS AND TYPES
 2. GROUND COVER AREAS IDENTIFIED WITHIN THE LANDSCAPE ARCHITECTURAL DRAWINGS AS NOT REQUIRING IRRIGATION HAVE BEEN EXCLUDED FROM THE WATER BALANCE CALCULATIONS
 3. IRRIGATION TO THE EXISTING DRAINAGE SWALE GROUND COVER HAS NOT BEEN INCLUDED IN WATER BALANCE CALCULATIONS

Node Water Balance - 2x35kL RWT					
	Flow (ML/yr)	TSS (kg/yr)	TP (kg/yr)	TN (kg/yr)	GP (kg/yr)
Flow In	3.73	98.27	0.57	8.20	97.18
ET Loss	0.00	0.00	0.00	0.00	0.00
Infiltration Loss	0.00	0.00	0.00	0.00	0.00
Low Flow Bypass Out	0.00	0.00	0.00	0.00	0.00
High Flow Bypass Out	0.00	0.00	0.00	0.00	0.00
Pipe Out	2.81	64.36	0.42	6.07	0.00
Weir Out	0.00	0.02	0.00	0.00	0.00
Transfer Function Out	0.00	0.00	0.00	0.00	0.00
Reuse Supplied	0.92	13.20	0.12	1.77	0.00
Reuse Requested	1.12	0.00	0.00	0.00	0.00
% Reuse Demand Met	82.05	0.00	0.00	0.00	0.00
% Load Reduction	24.55	34.49	26.90	25.97	100.00



B	ISSUE FOR SSQA	22.03.22	RG	MB
A	ISSUE FOR SSQA	14.03.22	RG	MB
No.	Description	Date	By	CHK

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Keyplan
PLAN TRUE

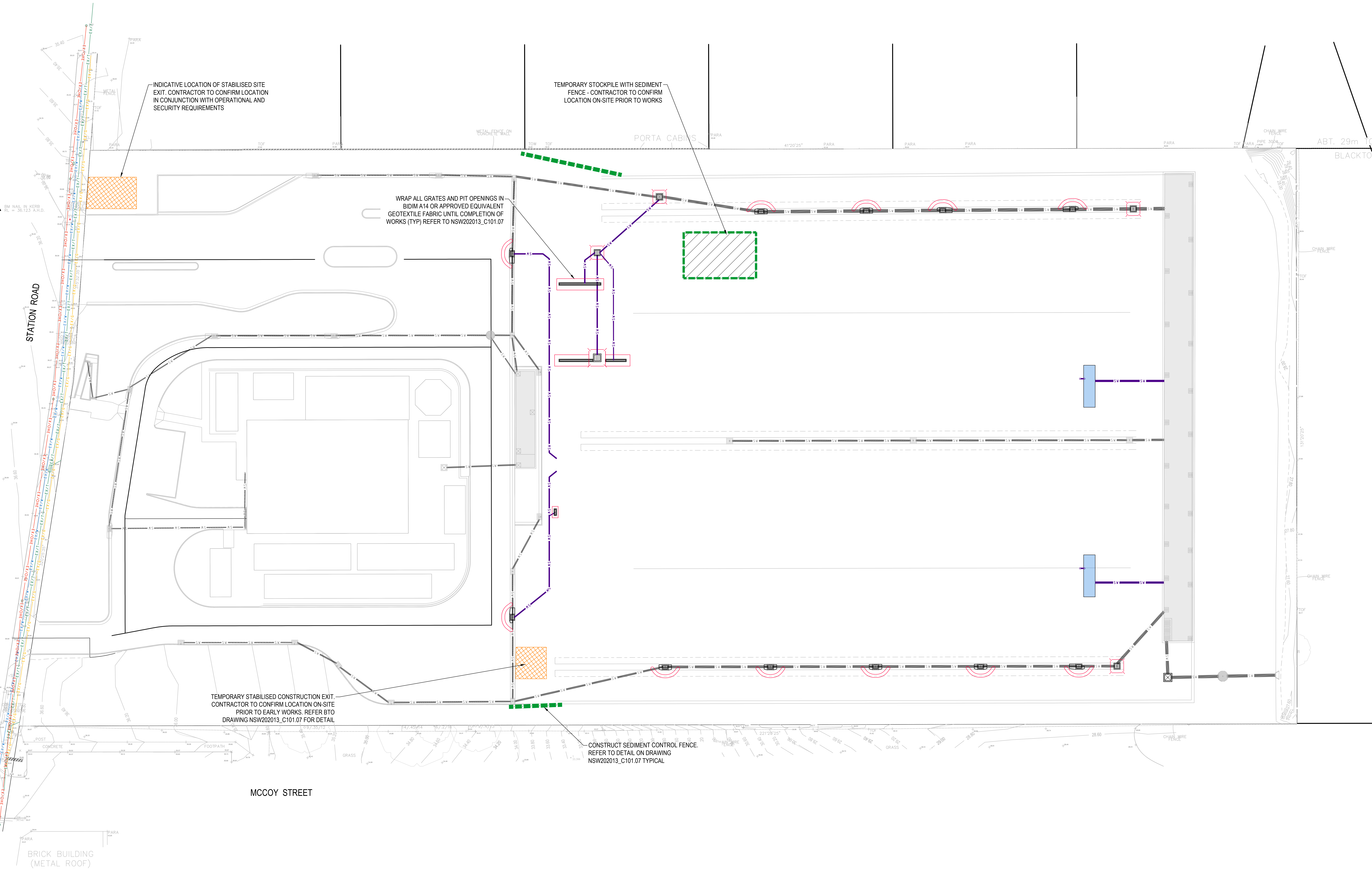
Project
SYD08 DATA CENTRE
57 STATION ROAD
SEVEN HILLS, NSW 2147
Drawing Title
WATER BALANCE CATCHMENT PLAN

Status
ISSUE FOR SSQA
Scale @ A0
1:250
Project No.
NSW202013
Drawing No.
NSW202013_C103.11

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RUSLE SOIL LOSS CALCULATION
IN ACCORDANCE WITH LANDCOM'S MANAGING URBAN
STORMWATER VOLUME 1, A RUSLE CALCULATION HAS BEEN
COMPLETED FOR THE SITE TO DETERMINE THE NEED FOR A
SEDIMENT BASIN. SECTION 6.3.2 STATES A SEDIMENT BASIN IS
NOT REQUIRED SHOULD THE AVERAGE ANNUAL SOIL LOSS FROM
SITE (A) BE LESS THAN 150m³ / YEAR.

A = R K L S P C
A = 2500 x 0.038 x 0.64 x 1.3 x 1.0
A = 60.8m³ / Ha / YEAR
DISTURBED SITE ARE = 2.18Ha
A = 132.5m³ / YEAR
THEREFORE A SEDIMENT BASIN IS NOT REQUIRED FOR THE SITE



B	ISSUE FOR SSDA	22.03.22	RG	MB
A	ISSUE FOR SSDA	11.03.22	RG	MB
No.	Description	Date	By	CHK

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Keyplan

PLAN TRUE

Project

SYD08 DATA CENTRE

57 STATION ROAD

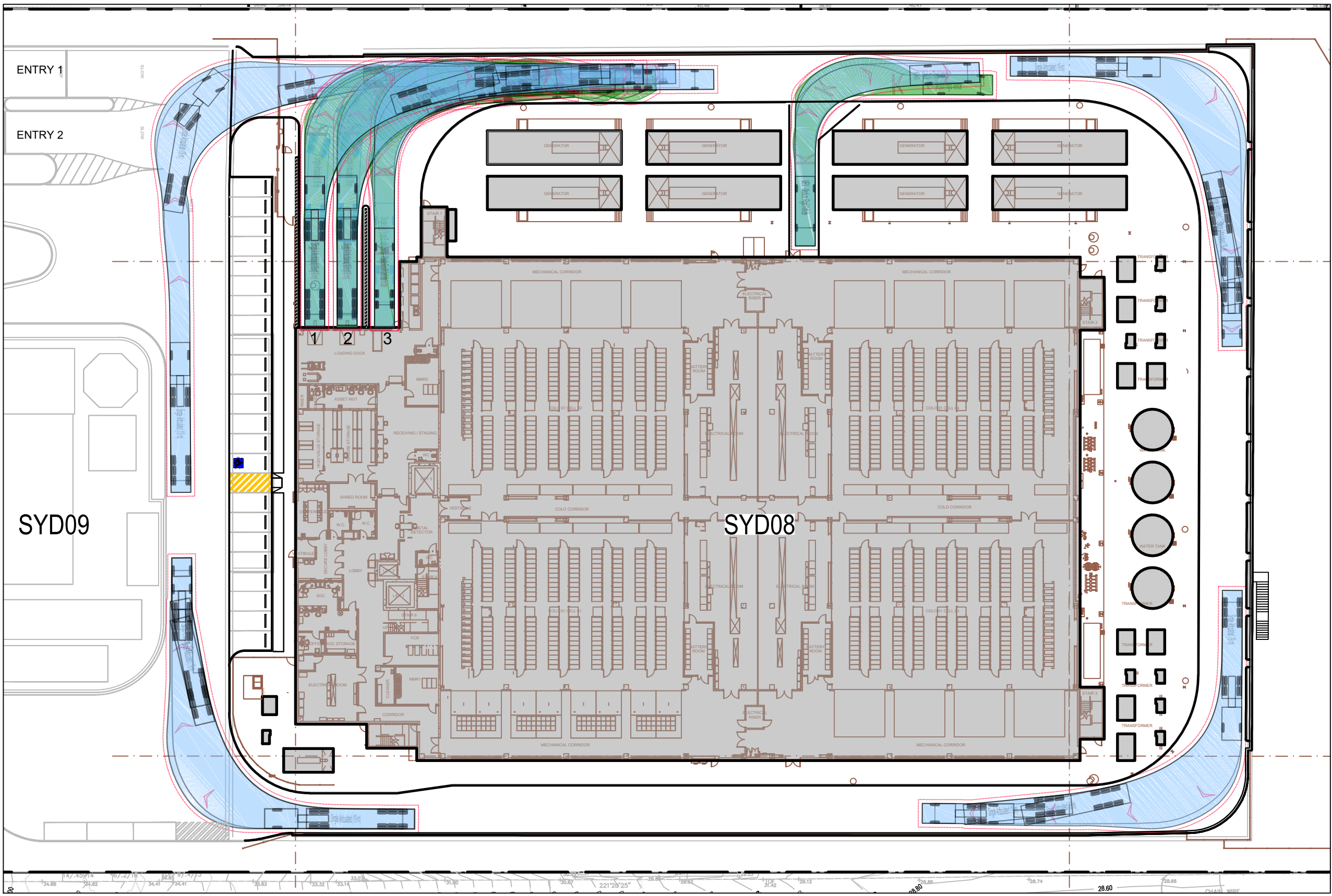
SEVEN HILLS, NSW 2147

Drawing Title

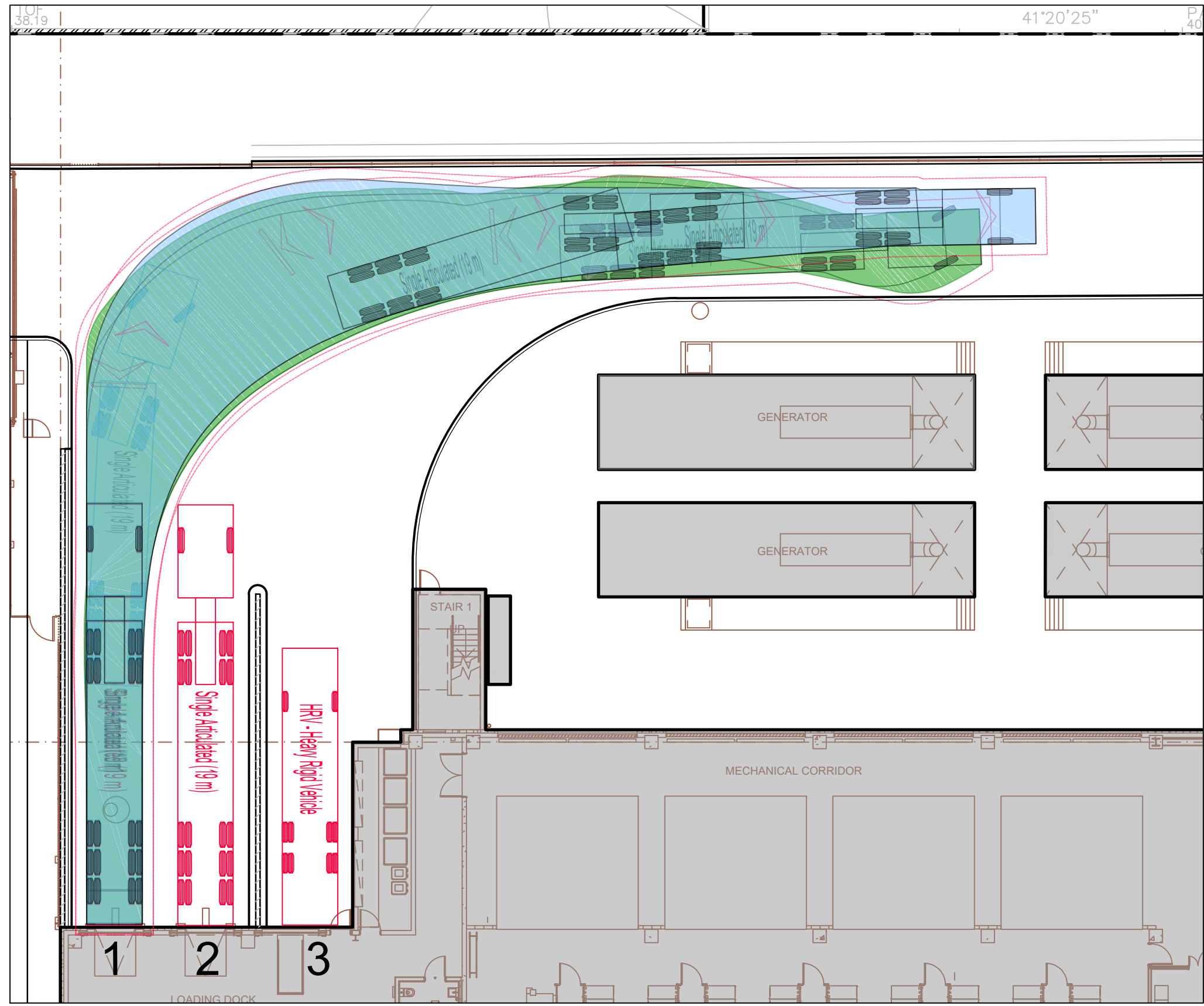
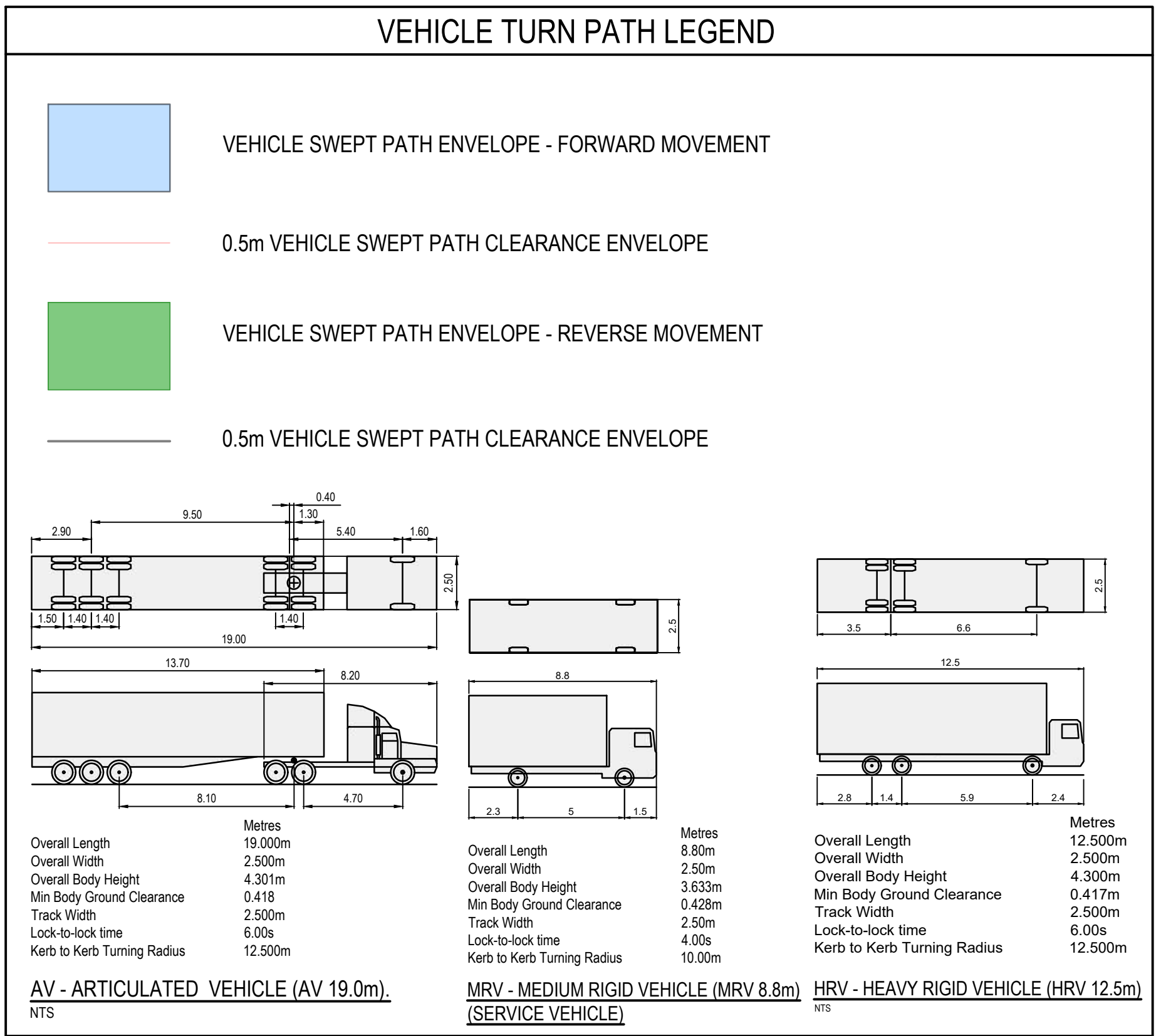
SOIL AND WATER MANAGEMENT PLAN

Status	ISSUE FOR SSDA
Scale @ A0	1:250
Project No.	NSW202013
Drawing No.	NSW202013_C105.01

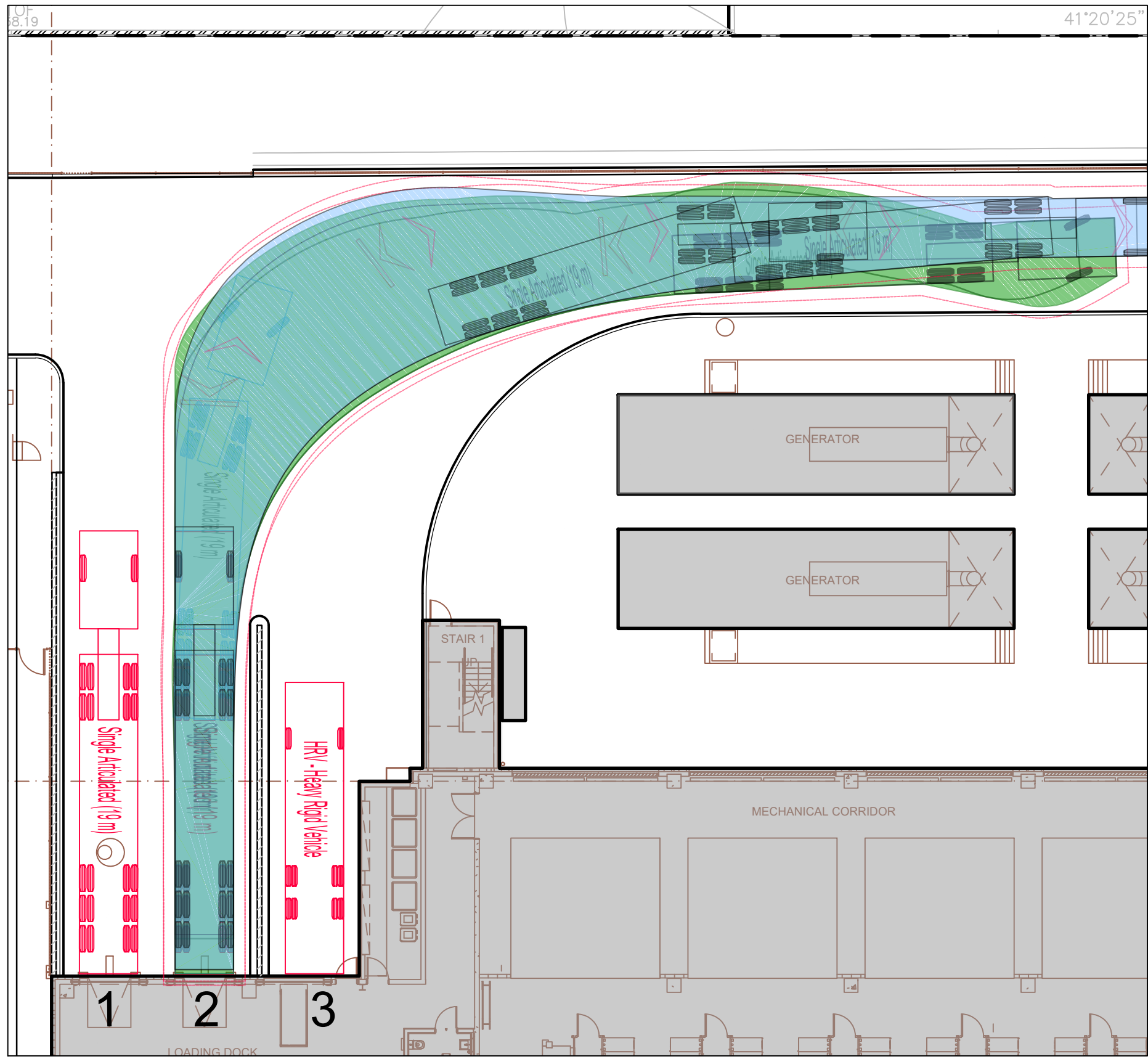
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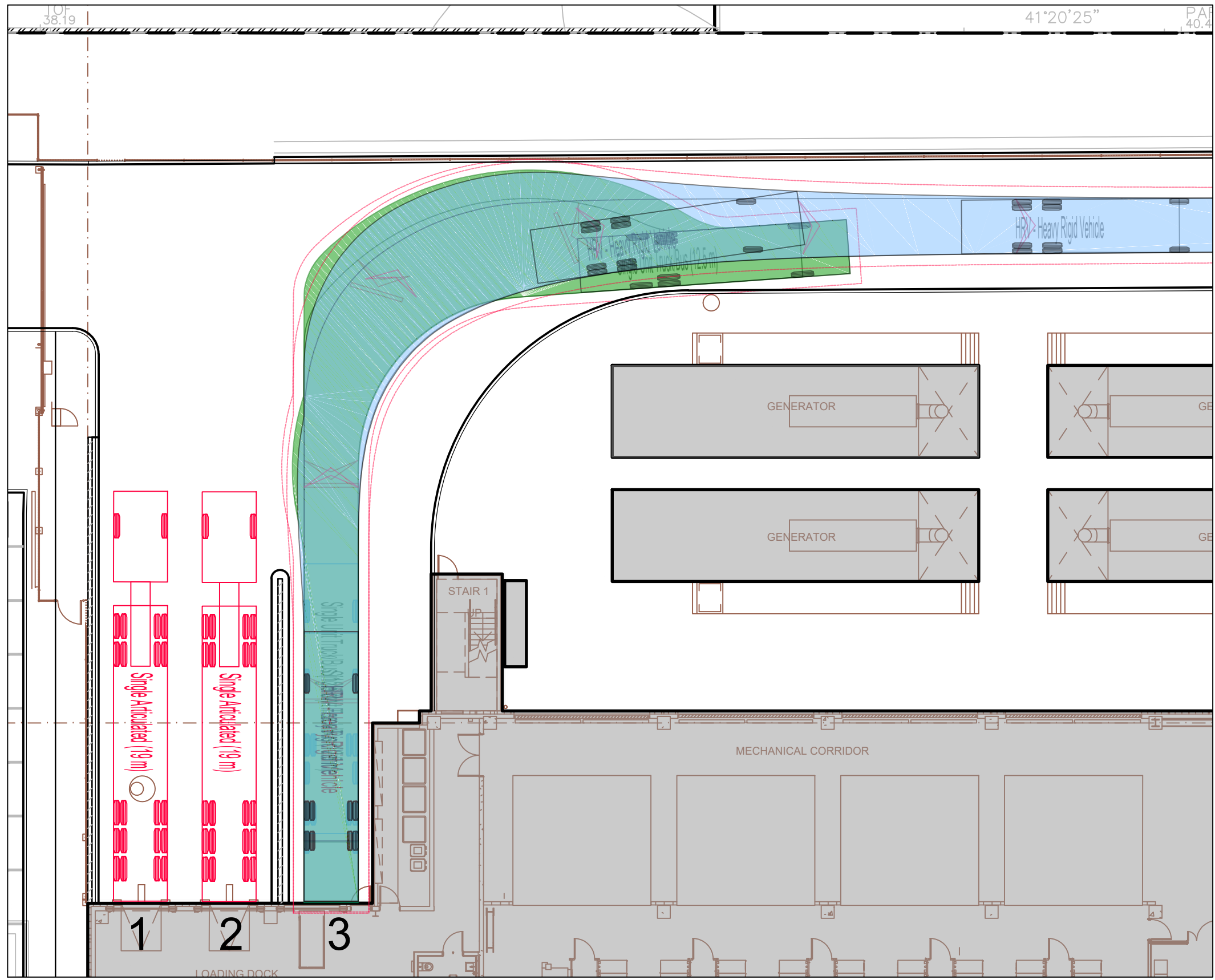
TURN PATH PLAN 1
SITE PLAN ALL TURN PATHS
1:500



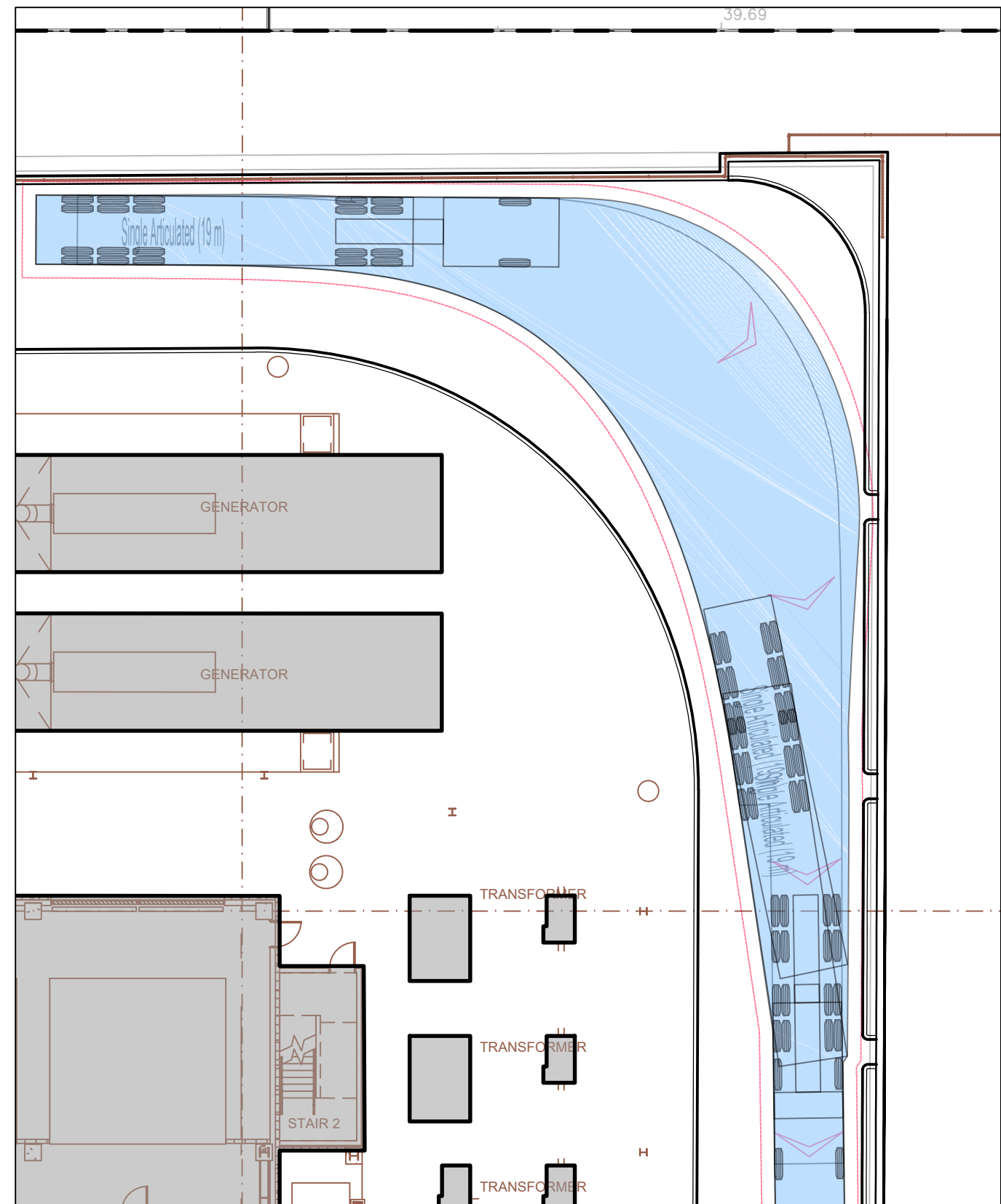
TURN PATH PLAN 2
DOCK No 1 (RECESSED) 19m AV FORWARD AND REVERSE MANOEUVRE



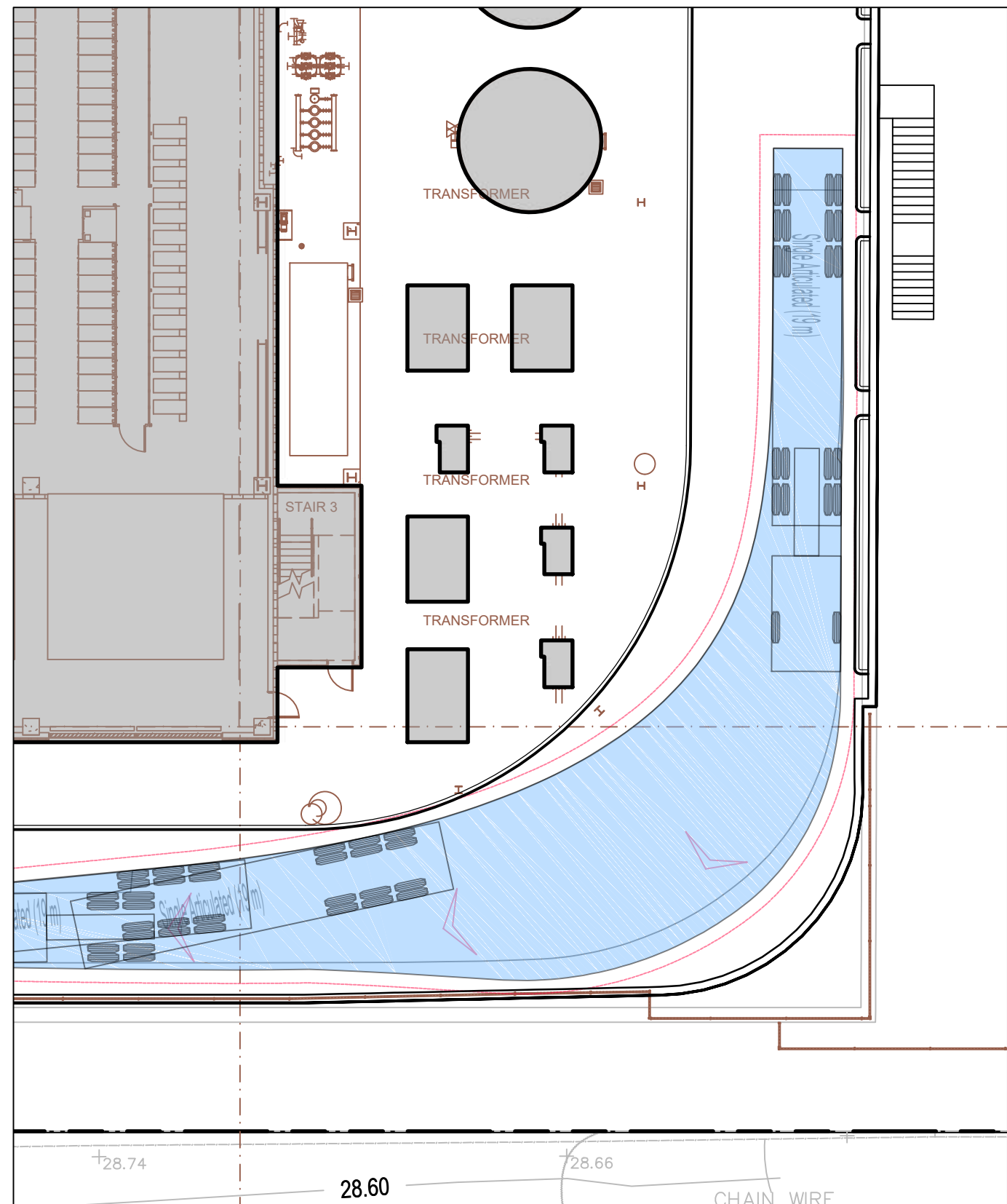
TURN PATH PLAN 3
DOCK No 2 (RECESSED) 19m AV FORWARD AND REVERSE MANOEUVRE



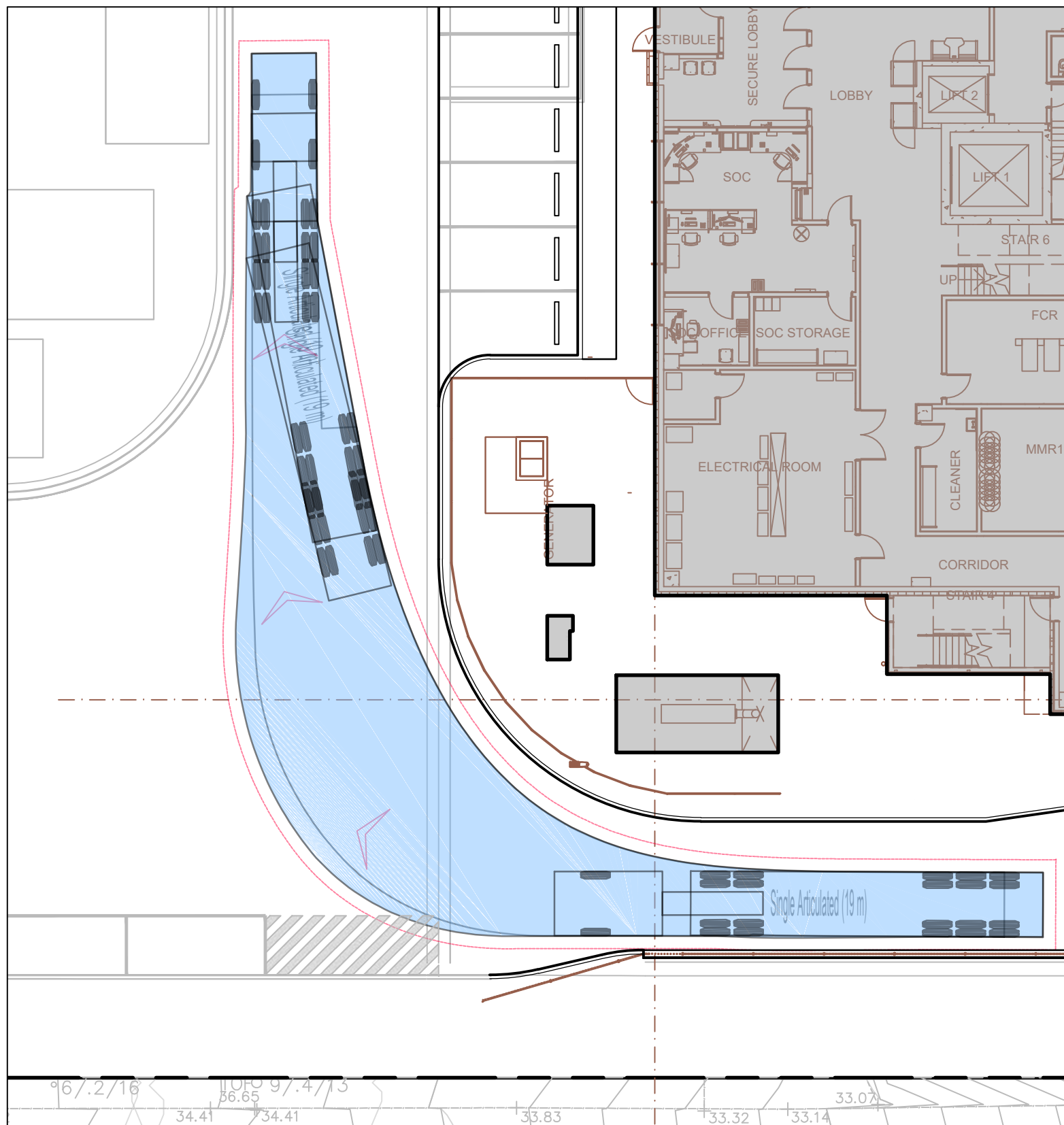
TURN PATH PLAN 4
DOCK No 3 (AT GRADE) 12.5m HRV FORWARD AND REVERSE MANOEUVRE



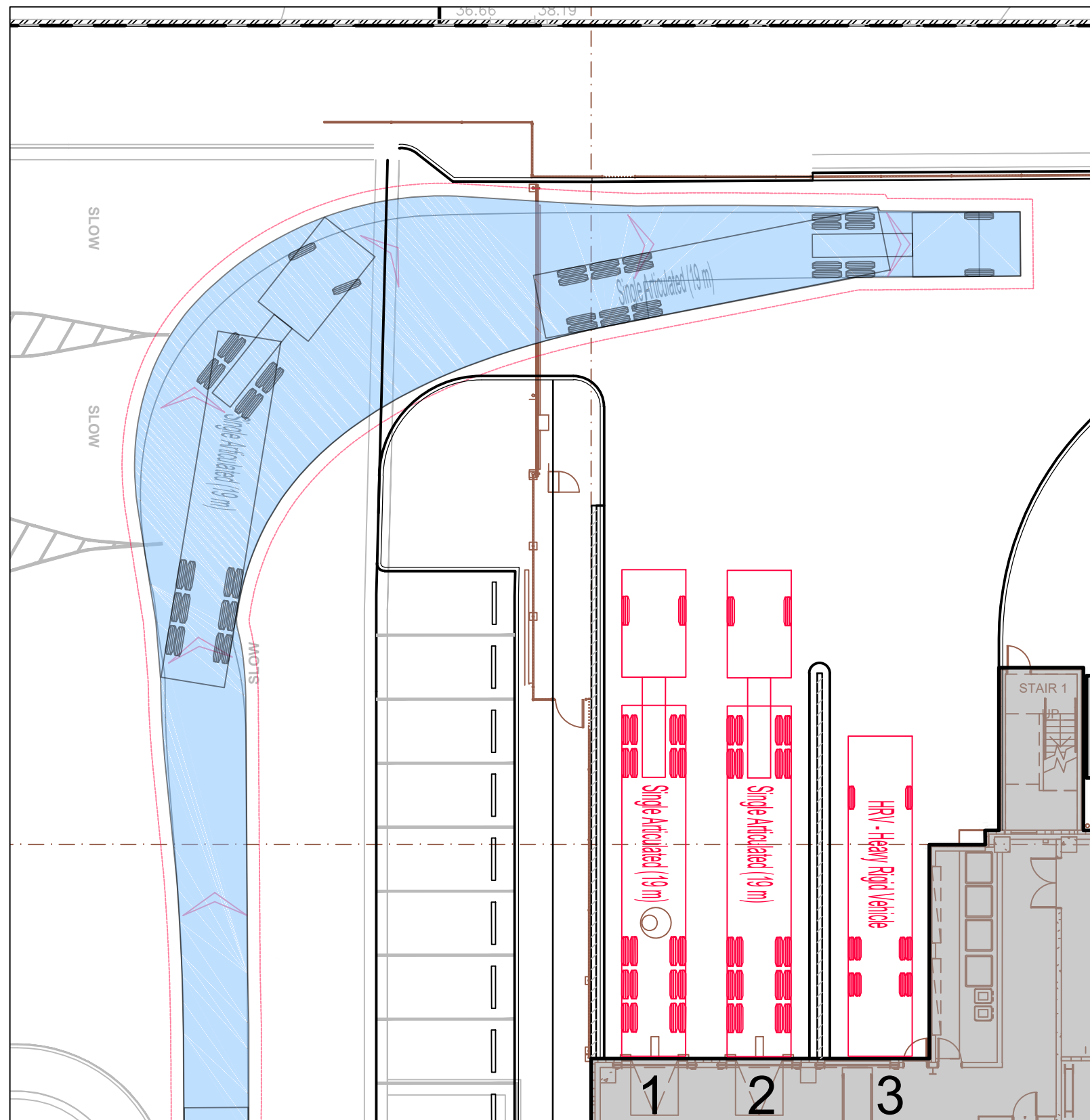
TURN PATH PLAN 5
19m AV FORWARD MANOEUVRE NORTH WEST CORNER



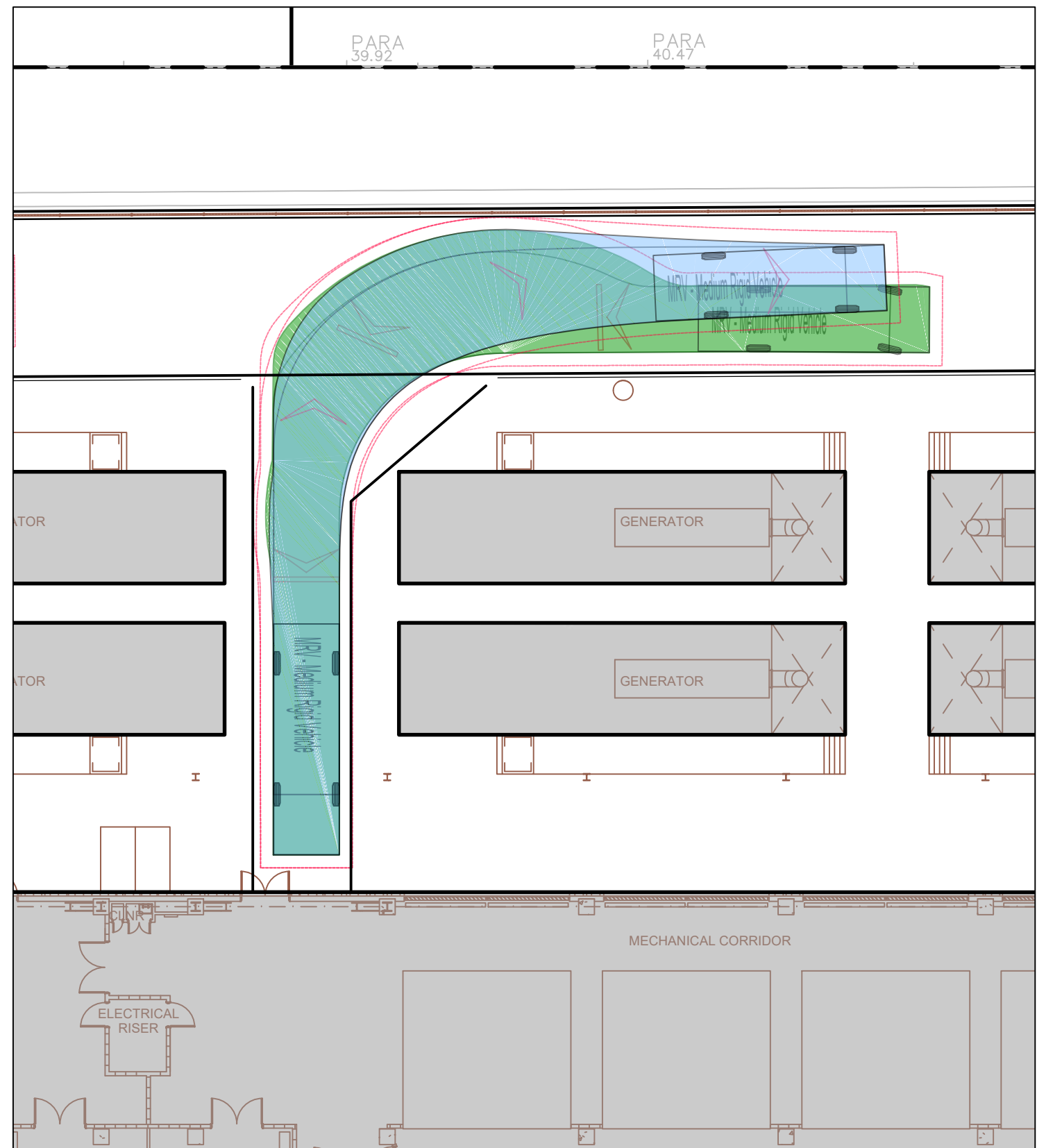
TURN PATH PLAN 6
19m AV FORWARD MANOEUVRE SOUTH EAST CORNER



TURN PATH PLAN 7
19m AV FORWARD MANOEUVRE TO SYD09



TURN PATH PLAN 8
19m AV FORWARD MANOEUVRE TO SYD08 FROM SYD09.



TURN PATH PLAN 8
LOADBANK DRIVEWAY
8.8m MRV FORWARD AND REVERSE MANOEUVRE

B	ISSUE FOR SSDA	22.03.22	RG	MB
A	ISSUE FOR SSDA	11.03.22	RG	MB
No.	Description	Date	By	CHK

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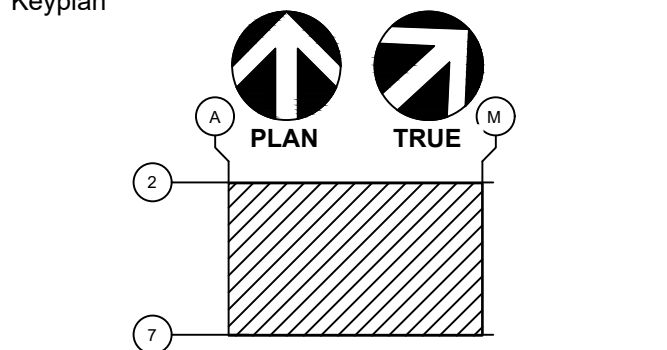
dem
P:\NSW\NSW202013_01008\Drawings\SSA\NSW202013_01008_C107.Dwg
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Client

LCI
LCI CONSULTANTS (AUSTRALIA) PTY LTD
LEVEL 4, 73 WALKER STREET,
NORTH SYDNEY, NSW 2060
ABN: 52 124 107 973

Keyplan



Project
SYD08 DATA CENTRE
57 STATION ROAD
SEVEN HILLS, NSW 2147

Drawing Title
VEHICLE TURN PATHS PLAN
SHEET 1

Status
ISSUE FOR SSDA

Scale @ A0
1:200 UNO

Project No.
NSW202013

Drawing No.
NSW202013_C107.01

B

COMMERCIAL IN CONFIDENCE