



PROPOSED WAREHOUSE DARK STORE

11-13 PERCY STREET, AUBURN NSW

CIVIL ENGINEERING WORKS

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD-10470

Granted on: 25 June 2021

GENERAL NOTES:

Signed: JF Sheet No: 16 of 34

1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH CUMBERLAND CITY COUNCIL'S SPECIFICATION ON CONTRACTOR TO COMPLY AND RETAIN A COPY ON SITE DURING THE COURSE OF THE WORKS.
2. ALL NEW WORKS AND EXISTING WORKS WITH EXISTING CONDITIONS, AND CARRY IN A WORKMANLIKE MANNER.
3. THE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL SERVICES WITH EACH RELEVANT AUTHORITY. ANY DAMAGE TO SERVICES SHALL BE RECTIFIED BY THE CONTRACTOR OR THE RELEVANT AUTHORITY AT THE CONTRACTOR'S EXPENSE. SERVICES SHOWN ON THESE PLANS ARE ONLY THOSE EVIDENT AT THE TIME OF SURVEY OR AS DETERMINED FROM SERVICE DIAGRAMS. HENRY AND HYMAS CONSULTING PTY. LTD. CANNOT GUARANTEE THE INFORMATION SHOWN NOR ACCEPT ANY RESPONSIBILITY FOR INACCURACIES OR INCOMPLETE DATA.
4. SERVICES & ACCESSES TO THE EXISTING PROPERTIES ARE TO BE MAINTAINED IN WORKING ORDER AT ALL TIMES DURING CONSTRUCTION.
5. ADJUST EXISTING SERVICE COVERS TO SUIT NEW FINISHED LEVELS TO RELEVANT AUTHORITY REQUIREMENTS WHERE NECESSARY.
6. REINSTATE AND STABILISE ALL DISTURBED LANDSCAPED AREAS.
7. MINIMUM GRADE OF SUBSOIL SHALL BE 0.5% (1:200) FALL TO OUTLETS.
8. ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS, EROSION AND SEDIMENTATION CONTROL PLAN AND CUMBERLAND CITY COUNCIL'S REQUIREMENTS WHERE APPLICABLE.
9. CONTRACTOR TO CHECK AND CONFIRM SITE DRAINAGE CONNECTIONS ACROSS THE VERGE PRIOR TO COMMENCEMENT OF SITE DRAINAGE WORKS.
10. PROPERTIES AFFECTED BY THE WORKS ARE TO BE NOTIFIED IN ADVANCE WHERE DISRUPTION TO EXISTING ACCESS IS LIKELY.

EXISTING SERVICES & FEATURES

- THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA OR AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
- THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
- PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF HIS PROGRAM FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
- CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN SUPPLY TO EXISTING BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED, THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
- INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. CONTRACTOR TO GAIN APPROVAL FROM THE SUPERINTENDENT FOR TIME OF INTERRUPTION.
- EXISTING SERVICES, BUILDINGS, EXTERNAL STRUCTURES AND TREES SHOWN ON THESE DRAWINGS ARE EXISTING FEATURES PRIOR TO ANY DEMOLITION WORKS.
- EXISTING SERVICES UNLESS SHOWN ON SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE A DIAL BEFORE YOU DIG SEARCH AND TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN 800 uPVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY THE SURVEYOR SPECIFIED IN THE TITLE BLOCK. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. HENRY AND HYMAS PTY. LTD. DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT HENRY AND HYMAS PTY. LTD. THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM ORIGINAL SURVEY DOCUMENTS.

DATUM: A.H.D.



LOCALITY SKETCH

SCALE: NTS

DRAWING SCHEDULE	
19513_DA_C000	COVER SHEET, DRAWING SCHEDULE, NOTES & LOCALITY SKETCH
19513_DA_C100	GENERAL ARRANGEMENT PLAN
19513_DA_C101	SITE DETAIL PLAN - SHEET 1 OF 4
19513_DA_C102	SITE DETAIL PLAN - SHEET 2 OF 4
19513_DA_C103	SITE DETAIL PLAN - SHEET 3 OF 4
19513_DA_C104	SITE DETAIL PLAN - SHEET 4 OF 4
19513_DA_C110	MEZZANINE LEVEL DETAIL PLAN - SHEET 1 OF 2
19513_DA_C111	MEZZANINE LEVEL DETAIL PLAN - SHEET 2 OF 2
19513_DA_C200	STORMWATER MISCELLANEOUS DETAILS
19513_DA_C201	OSD TANK PLAN, SECTIONS AND DETAILS
19513_DA_C202	STORMWATER LONGITUDINAL SECTIONS
19513_DA_C203	STORMWATER DESIGN RESULTS
19513_DA_C250	STORMWATER CATCHMENT PLAN - PRE DEVELOPMENT
19513_DA_C251	STORMWATER CATCHMENT PLAN - POST DEVELOPMENT
19513_DA_SE01	SEDIMENT AND EROSION CONTROL PLAN
19513_DA_SE02	SEDIMENT AND EROSION CONTROL DETAILS
19513_DA_BE01	BULK EARTHWORKS - CUT/FILL PLAN
19513_DA_BE02	BULK EARTHWORKS SECTIONS - SHEET 1 OF 2
19513_DA_BE03	BULK EARTHWORKS SECTIONS - SHEET 2 OF 2

SUBGRADE PREPARATION - SITEWORKS.

1. THE EXISTING SURFACE IS TO BE STRIPPED OF ANY PAVEMENTS, TOPSOIL OR OBVIOUS UNSUITABLE MATERIAL.
2. EXCAVATE TO ACHIEVE SUBGRADE LEVELS WHERE NECESSARY.
3. THE EXPOSED SUBGRADE AFTER STRIPPING AND/OR EXCAVATION IS TO BE PROOF ROLLED USING NOT FEWER THAN 5 PASSES OF A MINIMUM 8 TONNE DEAD WEIGHT STEEL SMOOTH-DRUM ROLLER UNDER THE SUPERVISION OF AN EXPERIENCED GEOTECHNICAL ENGINEER OR AN EXPERIENCED CIVIL ENGINEER. ANY AREAS ON THE SUBGRADE EXHIBITING EXCESSIVE DEFLECTION / MOVEMENT UNDER ROLLER TO BE EXCAVATED TO A MIN. DEPTH OF 0.5m AND REPLACED WITH APPROVED GRANULAR MATERIAL COMPACTED IN 250mm LOOSE LAYERS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
4. ENGINEERED FILL FOR REPLACEMENT OF SOFT OR HEAVING AREAS OR FOR BULK FILLING TO COMPRISE ESSENTIALLY OF GRANULAR MATERIALS (EG. EXCAVATED SHALE), WITH A PARTICLE SIZE NOT GREATER THAN 75mm DIAMETER. ENGINEERED FILL TO BE PLACED IN LAYERS NOT EXCEEDING 250mm LOOSE THICKNESS AND COMPACTED TO BETWEEN 95% AND 102% OF STANDARD MAXIMUM DRY DENSITY (SMDD) WITHIN ± 2% OF OPTIMUM MOISTURE CONTENT (OMC).
5. IMPORTED FILLING (IF REQUIRED) IS TO BE TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR IS TO NOMINATE THE SOURCE AND PROVIDE A SAMPLE FOR APPROVAL PRIOR TO IMPORTATION AND PLACEMENT ON SITE.
6. ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE SUPERINTENDENT AND SHALL COMPLY WITH THE FOLLOWING:
FREE FORM ORGANIC AND PERISHABLE MATTER
MAXIMUM PARTICLE SIZE = 75mm
MAXIMUM PLASTICITY INDEX = 15%

SITWORKS NOTES

- DATUM A.H.D.
- ORIGIN OF LEVELS: REFER TO BENCH OR STATE SURVEY MARKS WHERE SHOWN ON PLAN.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
- ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS & THE DIRECTIONS OF THE SUPERINTENDENT.
- EXISTING SERVICES UNLESS SHOWN ON SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS 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 SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- WHERE NEW WORKS ABOUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN FINISHED SURFACE FROM EXISTING CHANGES IS ACHIEVED.
- THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
- CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATION IS TO BE UNDERTAKEN OVER TELSTRA OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
- CONTRACTOR TO OBTAIN AUTHORITY APPROVALS WHERE APPLICABLE.
- MAKE SMOOTH TRANSITION TO EXISTING SURFACES AND MAKE GOOD.
- THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED LANDSCAPE, ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATIONS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED RELATING TO DEVELOPMENT AT THE SITE.
- TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MINIMUM OF 50mm IN BITUMINOUS PAVING.
- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN 800 uPVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.
- GRADES TO PAVEMENTS TO BE AS IMPLIED BY RL'S ON PLAN. GRADE EVENLY BETWEEN NOMINATED RL'S. AREAS EXHIBITING PONDING GREATER THAN 5mm DEPTH WILL NOT BE ACCEPTED UNLESS IN A DESIGNATED SAG POINT.
- ALL COVERS AND GRATES ETC TO EXISTING SERVICE UTILITIES ARE TO BE ADJUSTED TO SUIT NEW FINISHED SURFACE LEVELS WHERE APPLICABLE.

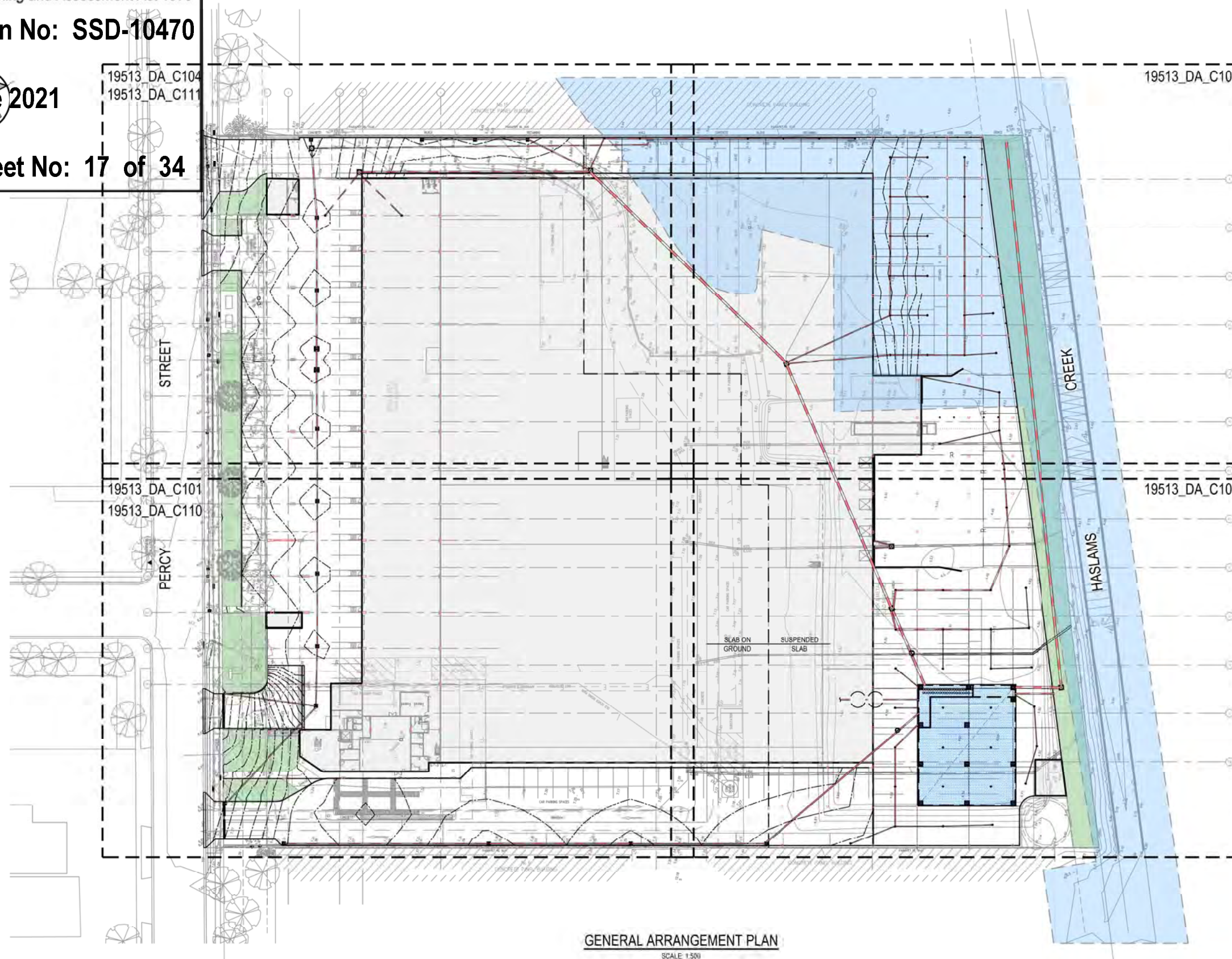
SUBSOIL DRAINAGE NOTES

1. GENERAL: PROVIDE SUBSOIL DRAINS TO INTERCEPT GROUNDWATER SEEPAGE AND PREVENT WATER BUILD-UP BEHIND WALLS AND UNDER FLOORS AND PAVEMENT. CONNECT SUBSOIL TO SURFACE DRAINS OR TO THE STORMWATER DRAINAGE SYSTEM AS APPLICABLE.
2. PIPE DEPTH:
PROVIDE THE FOLLOWING MINIMUM CLEAR DEPTH, MEASURED TO THE CROWN OF THE PIPE, WHERE THE PIPE PASSES BELOW THE FOLLOWING ELEMENTS:
 - 100mm BELOW FORMATION LEVEL OF THE PAVEMENT, KERB OR CHANNEL.
 - 100mm BELOW THE AVERAGE GRADIENT OF THE BOTTOM OF FOOTINGS.
3. JOINTING:
AT JUNCTIONS OF SUBSOIL PIPES PROVIDE TEES, COUPLINGS OR ADAPTORS TO AS2439.1.
4. TRENCH WIDTH MINIMUM 300mm
5. PIPE UNDERLAY:
GENERAL: GRADE THE TRENCH FLOOR EVENLY TO THE GRADIENT OF THE PIPELINE. IF THE TRENCH FLOOR IS ROCK, CORRECT ANY IRREGULARITIES WITH COMPACTED BEDDING MATERIAL. BED PIPING ON A CONTINUOUS UNDERLAY OF BEDDING MATERIAL, AT LEAST 75mm THICK AFTER COMPACTION. LAY THE PIPE WITH ONE LINE OF PERFORATIONS AT THE BOTTOM.

CHASES: IF NECESSARY TO PREVENT PROJECTIONS SUCH AS SOCKETS AND FLANGES FROM BEARING ON THE TRENCH BOTTOM OR UNDERLAY.
6. PIPE SURROUNDS:
GENERAL: PLACE THE MATERIAL IN THE PIPE SURROUND IN LAYERS SMALLER THAN OR EQUAL TO 200mm LOOSE THICKNESS. AND COMPACT WITHOUT DAMAGING OR DISPLACING PIPING.
DEPTH OF OVERLAY: TO THE UNDERSIDE OF THE BASE OF OVERLYING STRUCTURES SUCH AS PAVEMENTS, SLABS AND CHANNELS. TO WITHIN 150mm OF THE FINISHED SURFACE OF UNPAVED OR LANDSCAPED AREAS.
7. FILTER SOCKS PROVIDE POLYESTER PERMEABLE SOCKS, CAPABLE OF RETAINING PARTICLES OF 0.25mm SIZES. SECURELY FIT OF JOINTS SOCK AT EACH JOINT.

ISSUED FOR APPROVAL

SURVEY INFORMATION SURVEYED BY: LTS DATUM: A.H.D.		Client: WOOLWORTHS GROUP LIMITED		Suite 2.01 838 Pacific Highway Gordon NSW 2072		Telephone: +61 2 9417 8400 Facsimile: +61 2 9417 8337 Email: enquiries@henryhymas.com.au Web: www.henryhymas.com.au		Project: PROPOSED WAREHOUSE DARK STORE 11-13 PERCY STREET, AUBURN NSW		Drawn: J. Knight	Designed: L. Villa	Date: JULY 2020
Revision: 01 ISSUED FOR PRELIMINARY		Architect: NETTLETON TRIBE		This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.		Checked: B. Seizov		Approved: A. Francis		Scale (A1): NTS	Scale (A1): NTS	Revision: 03
REVISION		AMENDMENT		DRAWN		DESIGNED		DATE		Drawing number: 19513_DA_C000		Revision: 03



LEGEND

- EXISTING BOUNDARY
- LINE OF EXISTING EASEMENT
- PROPOSED VALLEY LINE
- PROPOSED RIDGE LINE
- EXISTING ELECTRICAL MAINS LINE
- PROPOSED CONTOURS
- PROPOSED SPOT LEVEL
- EXISTING SPOT LEVEL
- PROPOSED SURFACE INLET PITS
- PROPOSED STORMWATER PIPE
- EXISTING STORMWATER PIPE
- PROPOSED GRATED DRAIN
- PROPOSED INTEGRAL KERB
- PROPOSED RETAINING WALL
- PROPOSED FLOOR DRAIN
- PROPOSED PIT TAG
- OVERLAND FLOW PATH
- 100 YEAR FLOOD EXTENT
- PROPOSED COLUMN LOCATIONS TO STRUCTURAL ENGINEERS DETAILS

NOTE:

CONTRACTOR TO INVESTIGATE PRESENCE OF EXISTING UTILITIES, SIZE AND DEPTH OF ALL IN-GROUND UTILITIES, PRIOR TO CONSTRUCTION. SERVICES SHOWN ON THIS DRAWING DEPICTED FROM SERVICES SEARCH PLANS AND CANNOT BE GUARANTEED.

NOTE:

ALL STORMWATER PITS TO HAVE Ø100 UPVC SLOTTED PIPES CONNECTED TO THEM. THESE SUBSOILS TO EXTEND 3m UPSTREAM OF THE PIT AT A MINIMUM GRADE.

NOTE:

SERVICES SHOWN ON THIS DRAWING ARE DEPICTED FROM SERVICES SEARCH PLANS AND CANNOT BE GUARANTEED. THE EXACT DEPTH AND LOCATION OF ALL IN-GROUND UTILITIES TO BE DETERMINED BY POT HOLE OR CABLE SEARCH.

NOTE:

INVERT LEVEL TO EXISTING STORMWATER DRAINAGE LINES TO BE CHECKED AND CONFIRMED PRIOR TO COMMENCEMENT OF WORKS.

GENERAL ARRANGEMENT PLAN

SCALE 1:500



ISSUED FOR APPROVAL

SURVEY
INFORMATION
SURVEYED BY:
LTS
(JAT/MA APD)

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
01	ISSUED FOR APPROVAL	JK	LV	15.12.2020					
02	ISSUED FOR APPROVAL	JK	LV	09.12.2020					
03	ISSUED FOR APPROVAL	JK	LV	14.06.2020					
04	ISSUED FOR CO-ORDINATION	JK	LV	12.08.2020					
05	ISSUED FOR PRELIMINARY	JK	LV	07.08.2020					

WOOLWORTHS GROUP LIMITED
NETTLETON TRIBE

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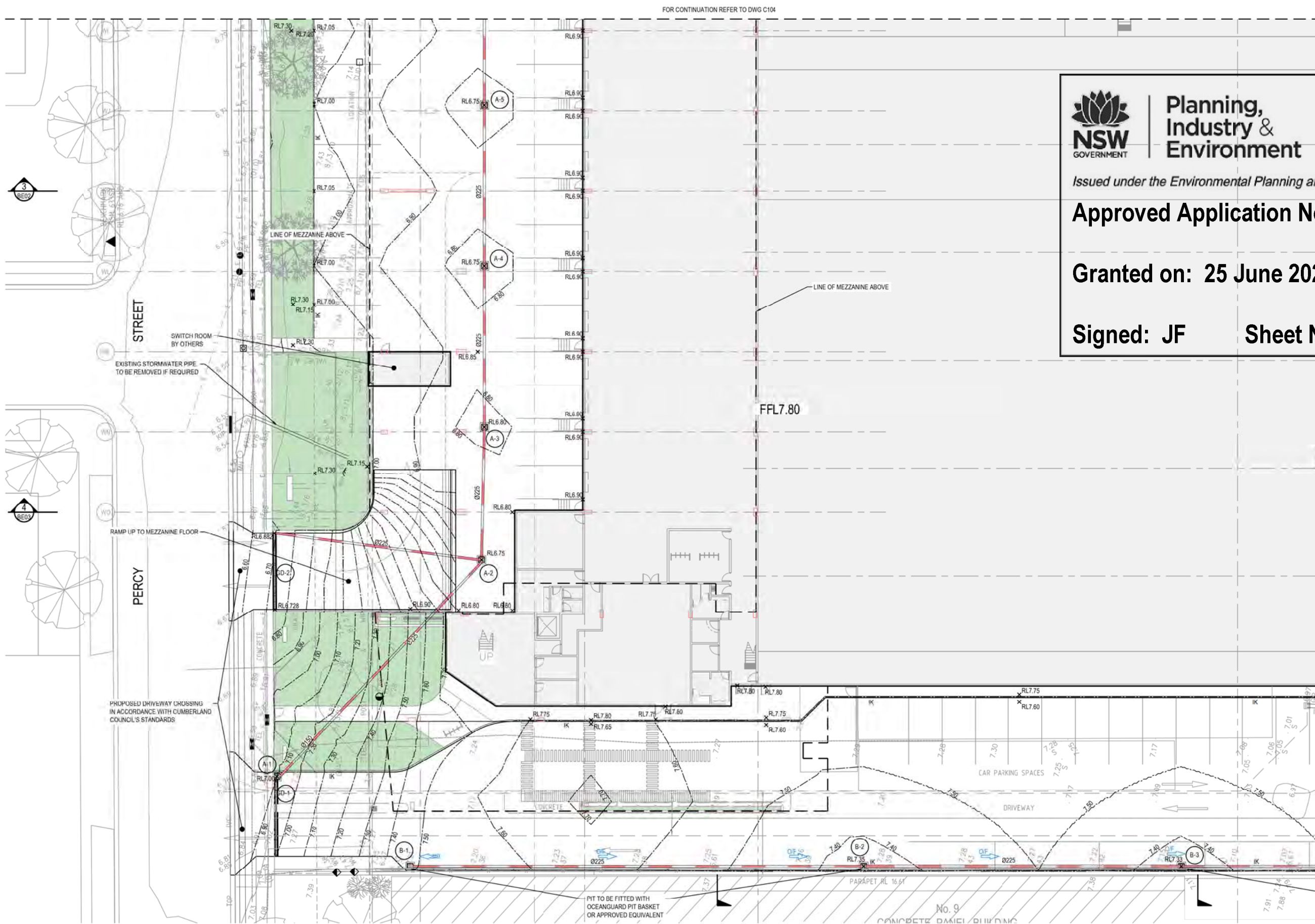
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Project
PROPOSED WAREHOUSE DARK STORE
11-13 PERCY STREET, AUBURN NSW
Drawing number
GENERAL ARRANGEMENT PLAN

Drawn J. Knight	Designed L. Villa	Date JULY 2020
Checked B. Seizov	Approved A. Francis	Scale @A1 1:500
Revision number 19513_DA_C100		Revision 05



FOR CONTINUATION REFER TO DWG C104

FOR CONTINUATION REFER TO DWG C102



Planning,
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Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD-10470

Granted on: 25 June 2021

Signed: JF

Sheet No: 18 of 34

0 4 8 12 16 20m
SCALE 1:200

SITE DETAIL PLAN
SCALE 1:200

ISSUED FOR APPROVAL

SURVEY
INFORMATION
SURVEYED BY:
LTS
DATUM: AHD

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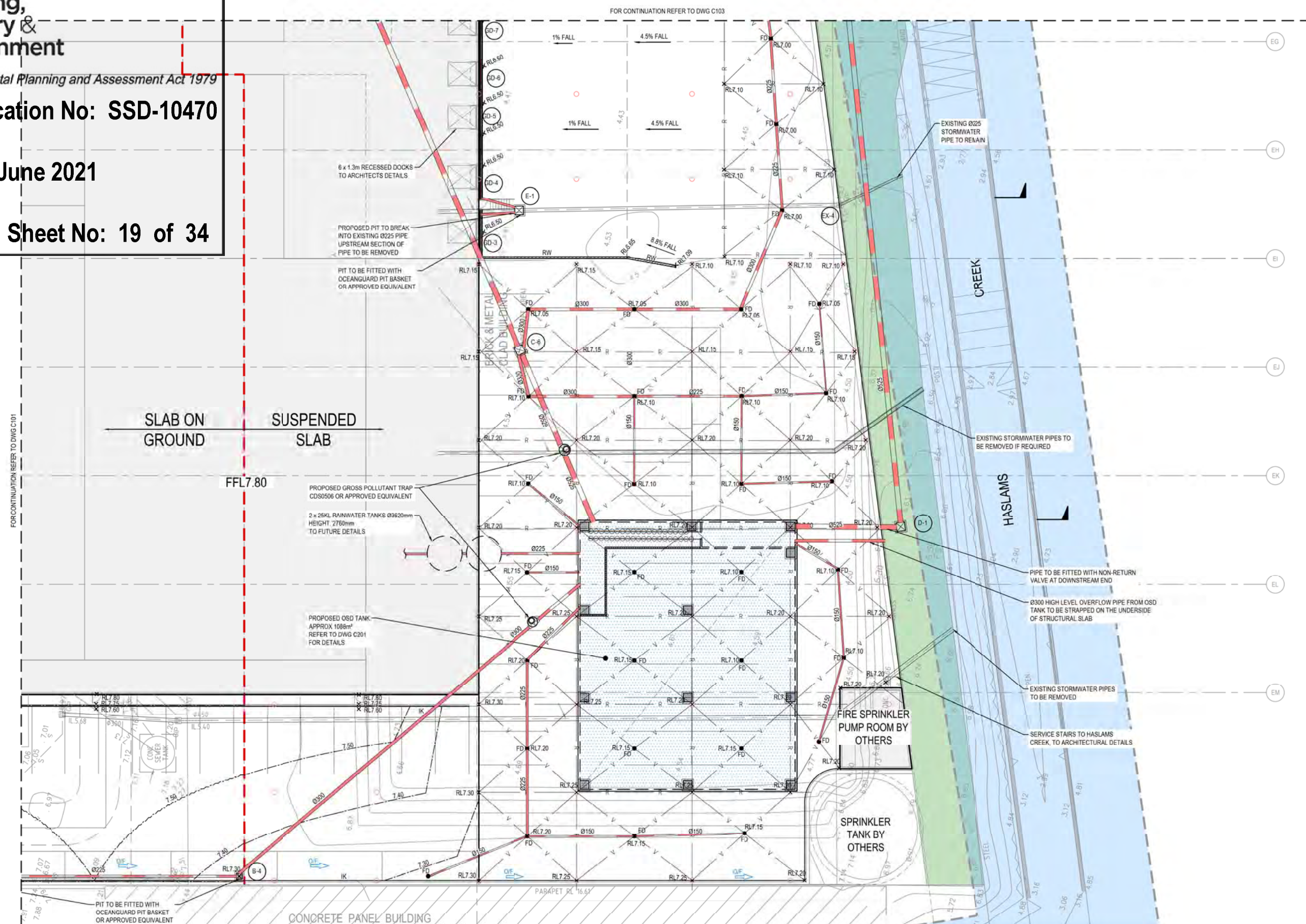
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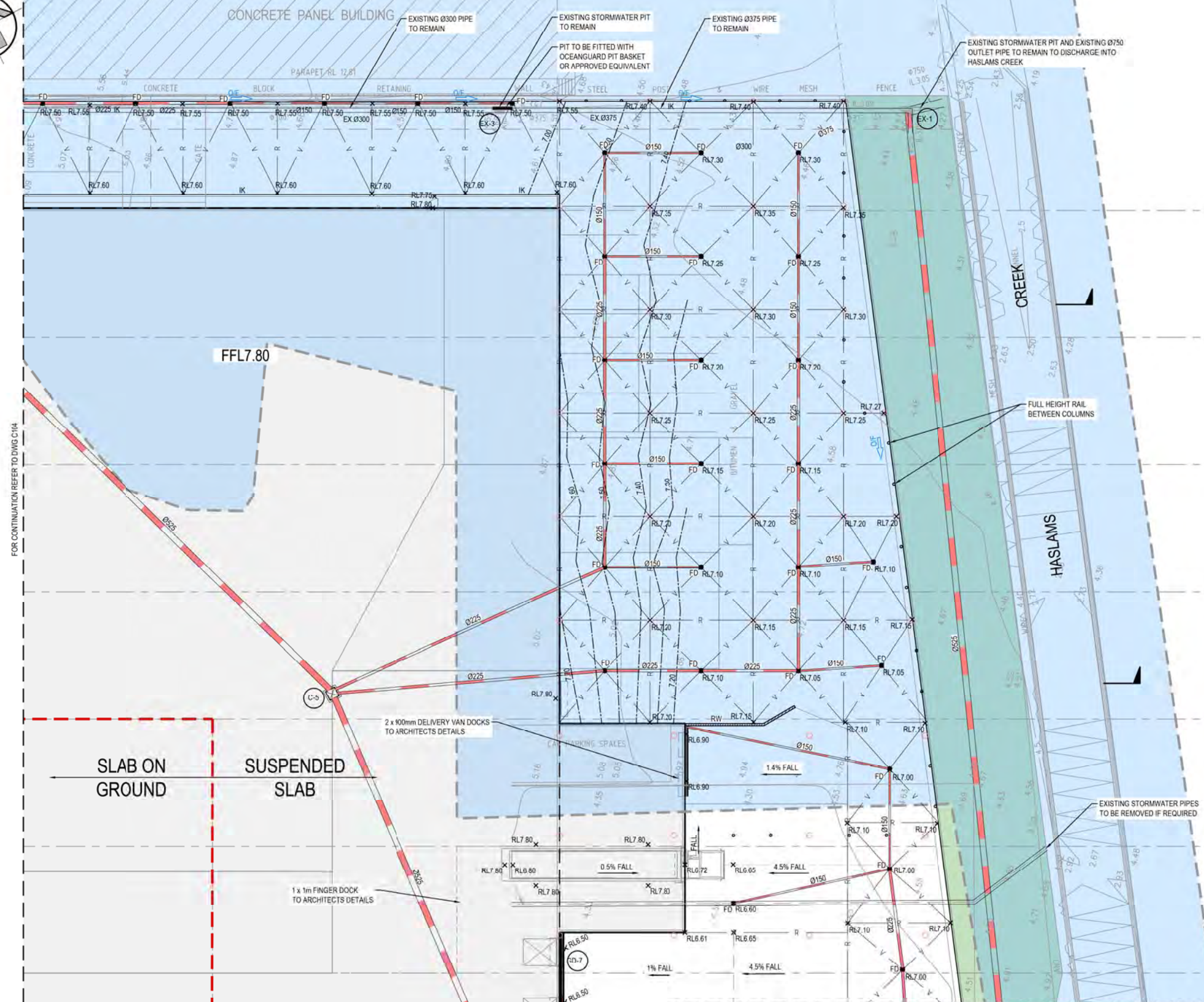


Project
PROPOSED WAREHOUSE DARK STORE
11-13 PERCY STREET, AUBURN NSW

Site
SITE DETAIL PLAN
SHEET 1 OF 4

Drawn J Knight	Designed L Villa	Date JULY 2020
Checked B Seizov	Approved A Francis	Scale (A1) 1:200
Drawing number 19513_DA_C101		Revision 05





SITE DETAIL PLAN
SCALE: 1:200

ISSUED FOR APPROVAL

SURVEY
INFORMATION
SURVEYED BY:
LTS
DATUM: AHD

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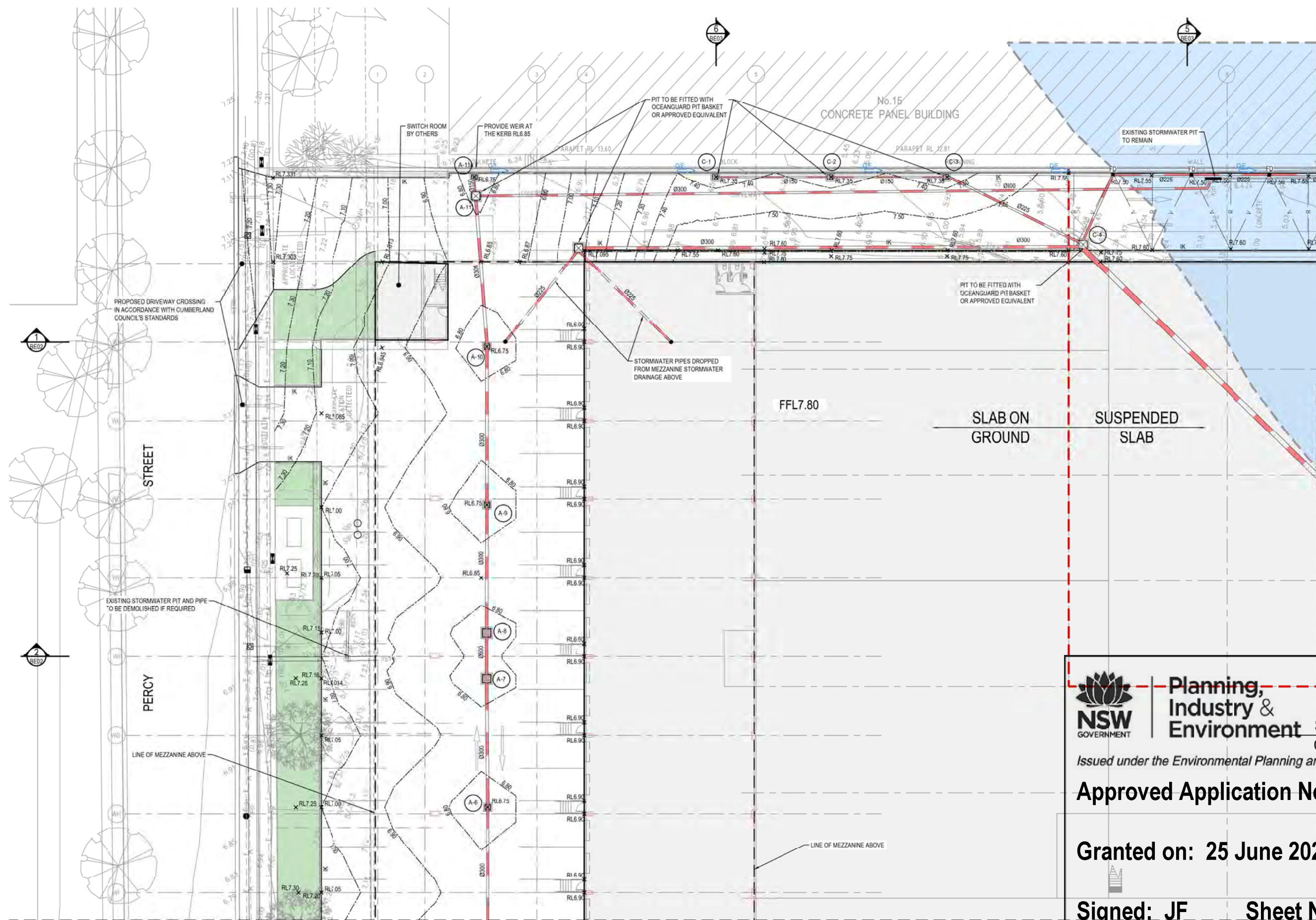
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Project
PROPOSED WAREHOUSE DARK STORE
11-13 PERCY STREET, AUBURN NSW
Site
SITE DETAIL PLAN
SHEET 3 OF 4

Drawn J. Knight	Designed L. Villa	Date JULY 2020
Checked B. Seizov	Approved A. Francis	Scale (A1) 1:200
Drawing number 19513_DA_C103	Revision 05	



FOR CONTINUATION REFER TO DWG C101

SITE DETAIL PLAN

SCALE 1:200



**Planning,
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Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD-10470

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Signed: JF Sheet No: 21 of 34

ISSUED FOR APPROVAL

**SURVEY
INFORMATION**

SURVEYED BY:
LTS
DATUM: AHD

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Project
**PROPOSED WAREHOUSE DARK STORE
11-13 PERCY STREET, AUBURN NSW**

Title
**SITE DETAIL PLAN
SHEET 4 OF 4**

Drawn J. Knight	Designed L. Villa	Date JULY 2020
Checked B. Seizov	Approved A. Francis	Scale @A1 1:200
Drawing number 19513_DA_C104	Revision 05	



Planning,
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Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD-10470

Granted on: 25 June 2021

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Sheet No: 22 of 34



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Client:
WOOLWORTHS GROUP LIMITED
Architect:
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Project
**PROPOSED WAREHOUSE DARK STORE
11-13 PERCY STREET, AUBURN NSW**
Title
**MEZZANINE LEVEL DETAIL PLAN
SHEET 1 OF 2**

Drawn J. Knight	Designed L. Villa	Date JULY 2020
Checked B. Seizov	Approved A. Francis	Scale (A1) 1:200
Drawing number 19513_DA_C110		Revision 04



Planning,
Industry &
Environment

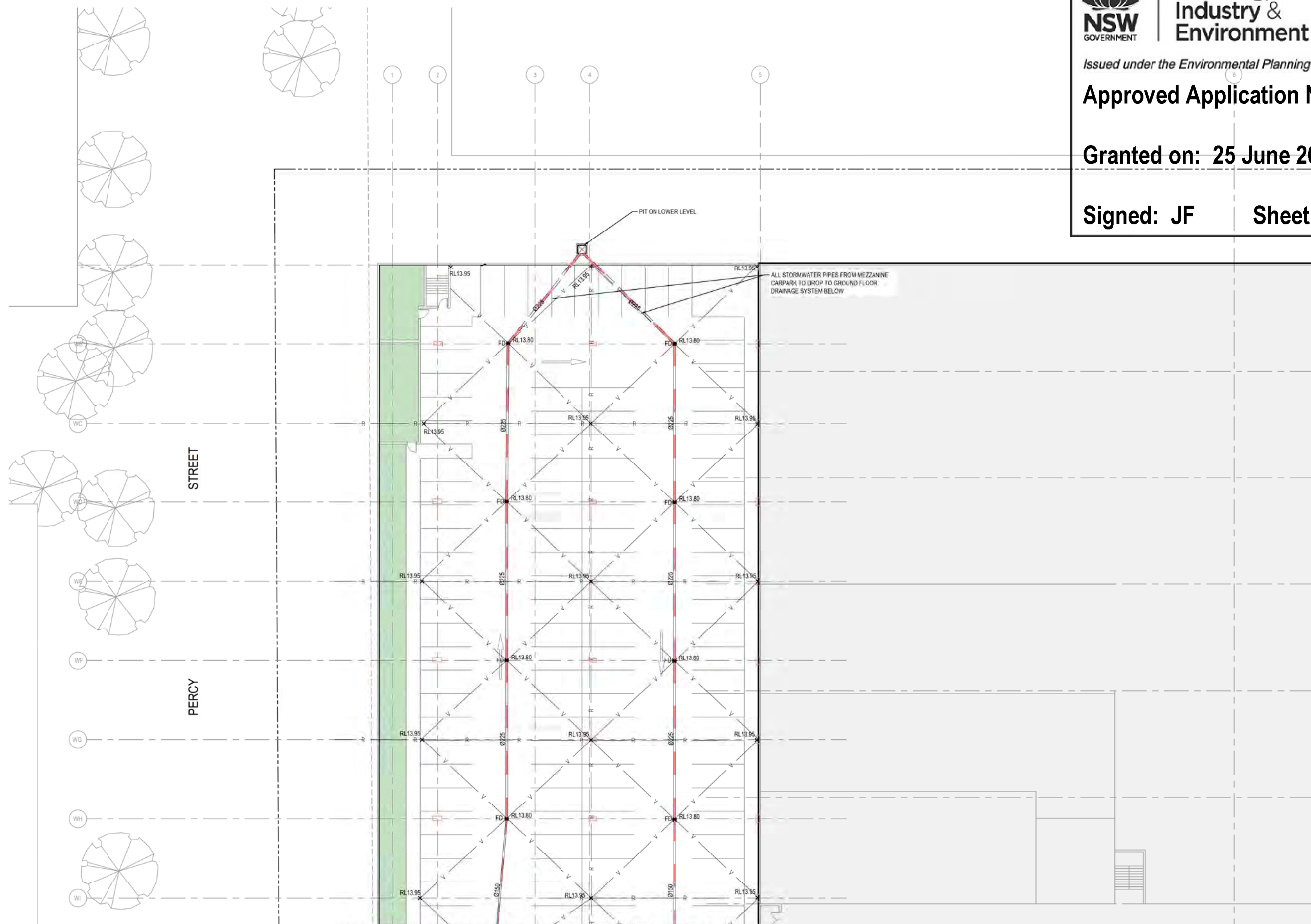
Issued under the Environmental Planning and Assessment Act 1979

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Granted on: 25 June 2021

Signed: JF

Sheet No: 23 of 34



FOR CONTINUATION REFER TO DWG C110

MEZZANINE LEVEL DETAIL PLAN

SCALE: 1:200



ISSUED FOR CO-ORDINATION

**SURVEY
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Client:
WOOLWORTHS GROUP LIMITED
Architect:
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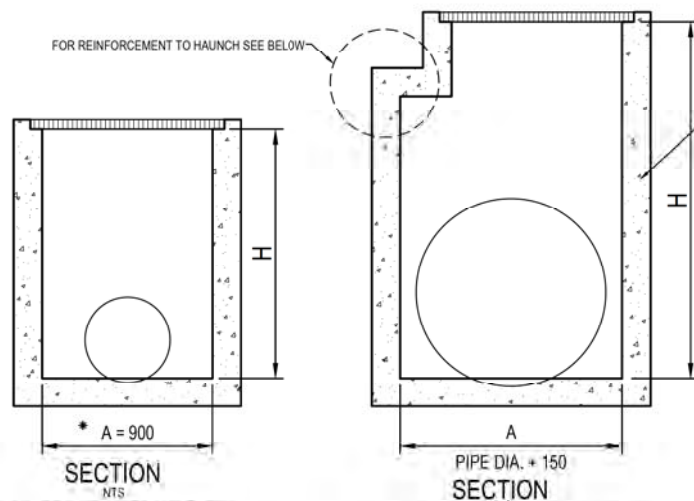


Project
**PROPOSED WAREHOUSE DARK STORE
11-13 PERCY STREET, AUBURN NSW**
Title:
**MEZZANINE LEVEL DETAIL PLAN
SHEET 2 OF 2**

Drawn J Knight	Designed L.Villa	Date JULY 2020
Checked B.Seizov	Approved A.Francis	Scale (A1) 1:200
Drawing number 19513_DA_C111		Revision 04

IT IS THE CONTRACTORS RESPONSIBILITY TO SELECT PIT CHAMBER SIZE WITH REGARDS TO PIPE SIZE, DEPTH TO INVERT AND SKEW ANGLE. REFER SKETCHES BELOW.

- ① SELECT PIT CHAMBER USING THE STEPS BELOW;
- ② SELECT PIT CHAMBER SIZE DEPENDING ON THE PIPE DIAMETERS.
- ③ CHECK PIT CHAMBER SIZE TO SATISFY DEPTH TO INVERT REQUIREMENTS.
CHECK PIT CHAMBER DIMENSIONS TO SATISFY THE SKEW ANGLE IN THE TABLE.

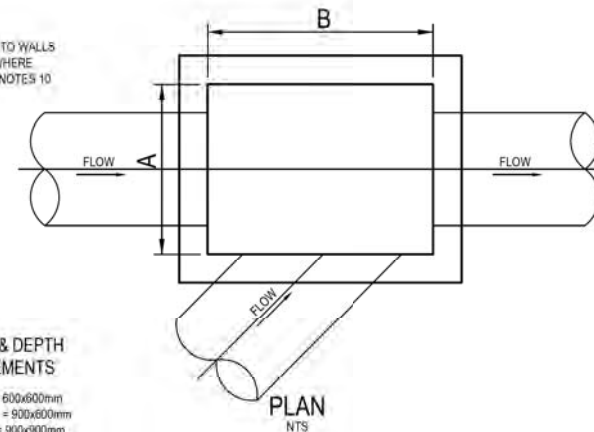


*A = 600 FOR PIPES UP TO 375 DIA.

- ① PIT CHAMBER DIMENSIONS
FOR PIPES UP TO 600 DIA.

② PIT SIZE & DEPTH REQUIREMENTS

H = 5-900mm - AxB = 600x600mm
H = 900-1200mm - AxB = 900x600mm
H = >1200mm - AxB = 900x900mm



- ③ PIT CHAMBER FOR
SIDE ENTRY ON SKEW

FOR B = 600mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 225mm
 FOR B = 900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 375mm
 FOR B = 1200mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 600mm
 FOR B = 1500mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 825mm
 FOR B = 1900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 1050mm

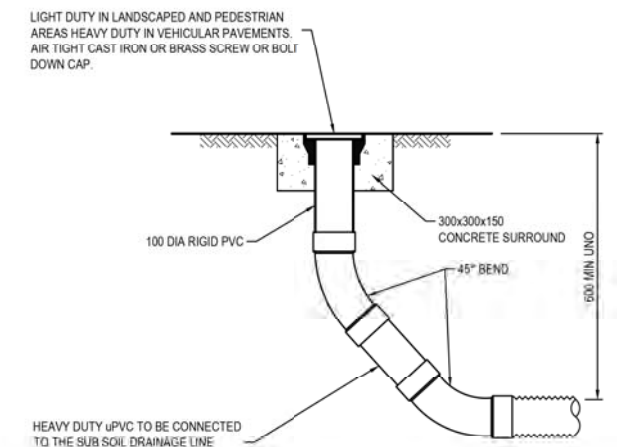
SIEVE SIZE (MM)	WEIGHT PASISNG (%)
75.0	100
9.5	100 TO 50
2.36	100 TO 30
0.60	50 TO 15
0.075	25 TO 0

SIEVE SIZE (MM)	WEIGHT PASISNG (%)
19.0	100
2.36	100 TO 50
0.60	90 TO 20
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0

SUPPORT TYPE	BED ZONE 'X'	HAUNCH ZONE 'Y'	BED AND HAUNCH ZONES COMPACTION	MAX BEDDING FACTOR
HS1	100 IF $D \leq 1500$, OR 150 IF $D > 1500$	0.1D	50	2.0
HS2		0.3D	60	2.5
HS3		0.3D	70	4.0

DRAINAGE NOTES:

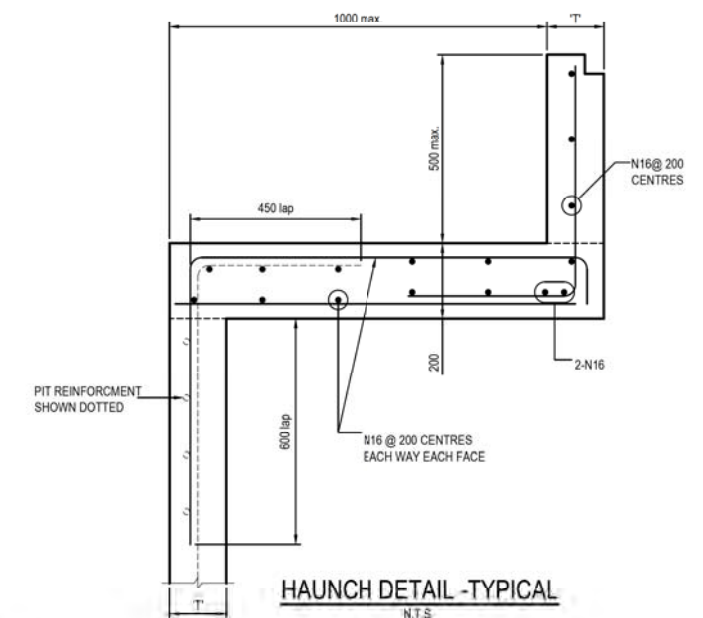
1. ALL STORMWATER WORK TO COMPLY WITH AS 3500 PART 3.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE MINIMUM COVER OF 600mm ON ALL PIPES.
3. PROTECTION OF PIPES DUE TO LOADS EXCEEDING W7 WHEEL LOAD SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
4. BEDDING TYPE SHALL BE TYPE H2 FOR RCP. WHERE NECESSARY THE OVERLAY ZONE SHALL BE REDUCED TO ACCOMMODATE PAVEMENT REQUIREMENTS. REFER TO THIS DRAWING FOR DETAILS.
5. MINIMUM COVER OVER EXISTING PIPES FOR PROTECTION DURING CONSTRUCTION SHALL BE 800mm.
6. NO CONSTRUCTION LOADS SHALL BE APPLIED TO PLASTIC PIPES.
7. FINISHED SURFACE LEVELS SHOWN ON LAYOUT PLAN DRGS TAKE PRECEDENCE OVER DESIGN DRAINAGE SURFACE LEVELS.
8. ALL PIPES UP TO AND INCLUDING 300 DIA. SHALL BE SOLVENT OR RUBBER RING JOINTED PVC CLASS SH PIPE TO AS1260. ALL OTHER PIPES TO BE RCP USING CLASS 2 RUBBER RING JOINTED PIPE. HARDIES FRC PIPEMAY BE USED IN LIEU OF RCP IF DESIRED IN GROUND. ALL AERIAL PIPES TO BE PVC CLASS SH.
9. ALL PITS IN NON TRAFFICABLE AREAS TO BE PREFABRICATED POLYESTER CONCRETE "POLYCRETE" WITH "LIGHT DUTY" CLASS B GALV. MILD STEEL GRATING AND FRAME. ALL PITS IN TRAFFICABLE AREAS (CLASS 10 LOADING MAX) TO HAVE 150mm THICK CONCRETE WALLS AND BASE CAST-IN-SITU f_{ck} 22 MPa. REINFORCED WITH N12 200 BOTH LOADING WAYS CENTRALLY PLACE. U.N.O. IN SEPARATE DESIGN DRAWINGS IN THIS SET. GALV. MILD STEEL GRATING AND FRAME TO SUIT DESIGN LOADING. PRECAST PITS, RECTANGULAR OR CIRCULAR IN SHAPE, MAY BE USED IN LIEU AND SHALL COMPLY WITH RELEVANT AUSTRALIAN STANDARDS.
10. ALL PITS, GRATINGS AND FRAMES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION AND TO BE IN ACCORDANCE WITH AS3500.3 AND AS3906.
11. PIT CHAMBER DIMENSIONS ARE TO BE SELECTED TO SATISFY THE FOLLOWING.
 - PIPE SIZE
 - DEPTH TO INVERT
 - SKEW ANGLE
- REFER TYPICAL PIT CHAMBER DETAILS BELOW
- IF PIT LID SIZE IS SMALLER THAN THE PIT CHAMBER SIZE THEN THE PIT LID IS TO BE CONSTRUCTED ON THE CORNER OF THE PIT CHAMBER WITH THE STEP IRONS DIRECTLY BELOW. ALTERNATIVELY THE PIT LID TO BE USED, IS TO BE THE SAME SIZE AS THE PIT CHAMBER.
12. FOR PIPE SIZES GREATER THAN Ø300mm, PIT FLOOR IS TO BE BENCHED TO FACILITATE FLOW.
13. GALVANISED STEP IRONS SHALL BE PROVIDED AT 300 CTS FOR PITS HAVING A DEPTH EXCEEDING 1200mm. SUBSOIL DRAINAGE PIPE SHALL BE PROVIDED IN PIPE TRENCHES ADJACENT TO INLET PIPES. (MINIMUM LENGTH 3m).
14. ALL SUBSOIL PIPES SHALL BE 100mm SLOTTED PVC IN A FILTER SOCK, UNO, WITH 3m INSTALLED UPSTREAM OF ALL PITS.
15. ALL PIPEWORK SHALL HAVE MINIMUM DIAMETER 100.
16. MINIMUM GRADE FOR ROOFWATER DRAINAGE LINES SHALL BE 1%.
17. ALL PIPE JUNCTIONS AND TAPER UP TO AND INCLUDING 300 DIA. SHALL BE VIA PURPOSE MADE FITTINGS.
18. ALL ROOF DRAINAGE TO BE INSTALLED IN ACCORDANCE WITH AS3500, PART 3. TESTING TO BE UNDERTAKEN AND REPORTS PROVIDED TO THE SUPERINTENDENT.
19. LOCATION OF THE DIRECT DOWN PIPE CONNECTIONS MAY VARY ON SITE TO SUIT SITE CONDITIONS, WHERE CONNECTION SHOWN ON LONG SECTIONS CHAINAGES ARE INDICATIVE ONLY.
20. PITS IN EXCESS OF 1.5 m DEEP TO HAVE WALL AND FLOOR THICKNESS INCREASED TO 200mm. REINFORCED WITH N12/200 CTS CENTRALLY PLACED BOTH WAYS THROUGHOUT U.N.O. IN SEPARATE DESIGN DRAWINGS IN THIS SET. IF DEPTH EXCEEDS 5m CONTACT ENGINEER.
21. SUBSOIL DRAINAGE LINES FOR LANDSCAPE AREA NOT SHOWN ON THESE DRAWINGS, REFER TO LANDSCAPE PLANS FOR DETAILS.
22. ALL STORMWATER PITS TO HAVE Ø100 uPVC SLOTTED SUBSOIL PIPES CONNECTED TO THEM. THESE SUBSOILS TO EXTEND 3m UPSTREAM OF THE PIT AT A MINIMUM GRADE.



FLUSHING POINT (FP)

SCALE 1:10

NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED



ISSUED FOR APPROVAL

Drawn J.Knight	Designed L.Villa	Date JULY 2020
Checked B.Seizov	Approved A.Francis	Scale @A1 AS NOTED
Drawing number 19513 DA C200		Revision 03

SURVEY INFORMATION

SURVEYED BY
LTS
LIA HAMB AFRZ

[illegible]

WOOLWORTHS GROUP LIMITED

NETTLETON TRIBE

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Project	PROPOSED WAREHOUSE DARK STORE 11-13 PERCY STREET, AUBURN NSW
Title	STORMWATER MISCELLANEOUS DETAILS



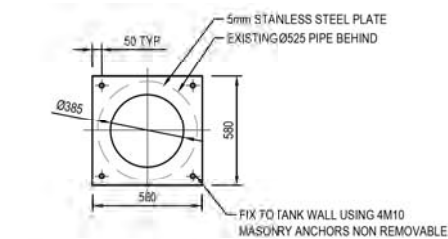
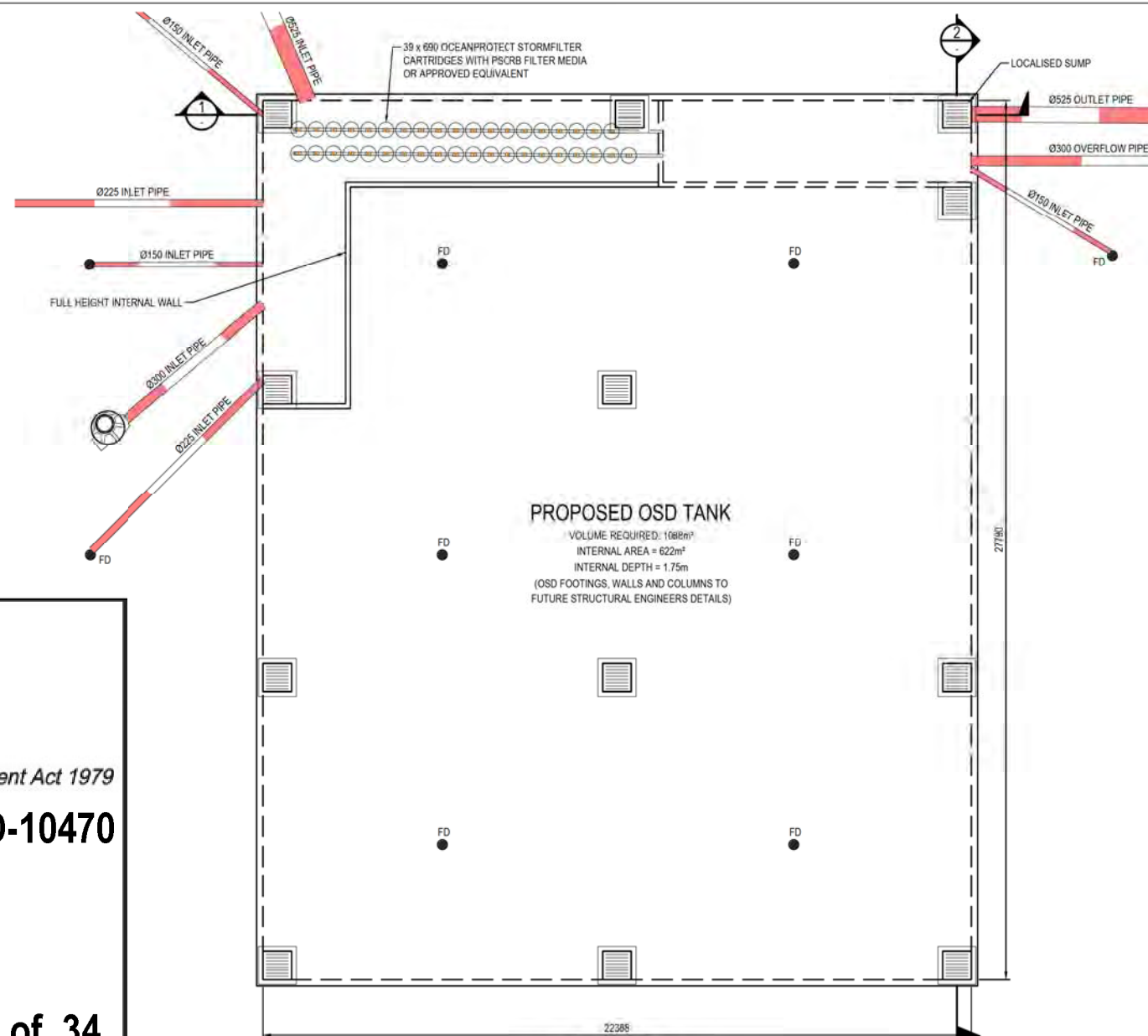
Planning,
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Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD-10470

Granted on: 25 June 2021

Signed: JF Sheet No: 25 of 34

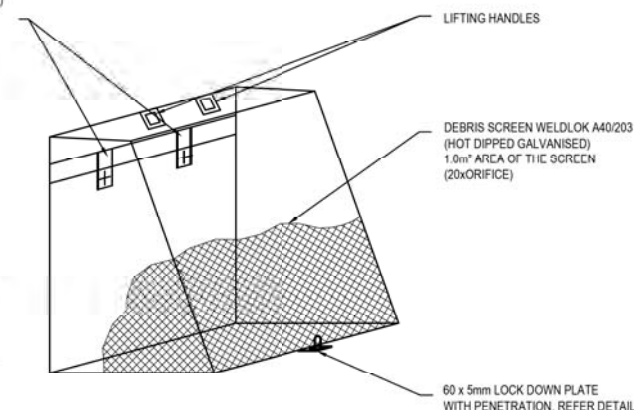


ORIFICE PLATE DETAIL
SCALE 1:20

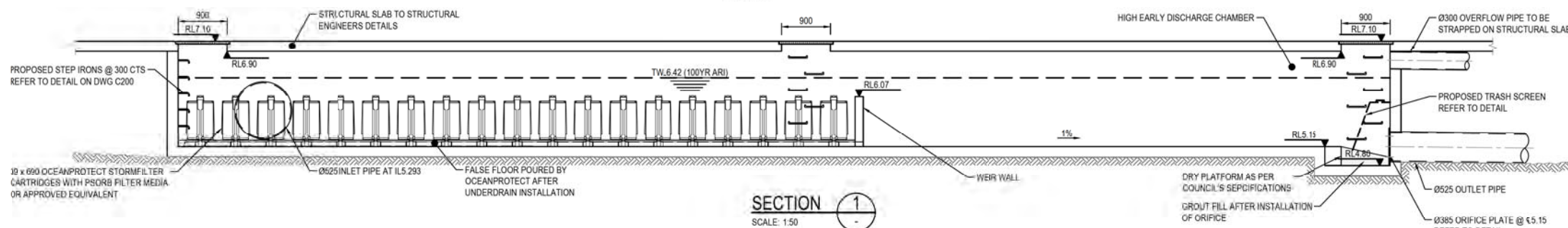
100 x 16 MOUNTING BAR WITH BRACKETS, SCREEN TO BE ATTACHED (GENERALLY ON A SLIDING MECHANISM) TO THE WALL, BUT SHOULD BE REMOVABLE (WITHOUT THE USE OF TOOLS) TO PERMIT CLEANSING AND EASY INSPECTION OF THE OUTLET CONTROL. ALL STEEL TO BE HOT DIPPED GALVANISED.

SCREEN TYPE WELDLOK A40/203 IS RECOMMENDED FOR ORIFICES LARGER THAN 150mm AND SCREEN AREA 20 x THE ORIFICE AREA FOR THAT TYPE OF SCREEN - REFER UPRT SECTION 4-13

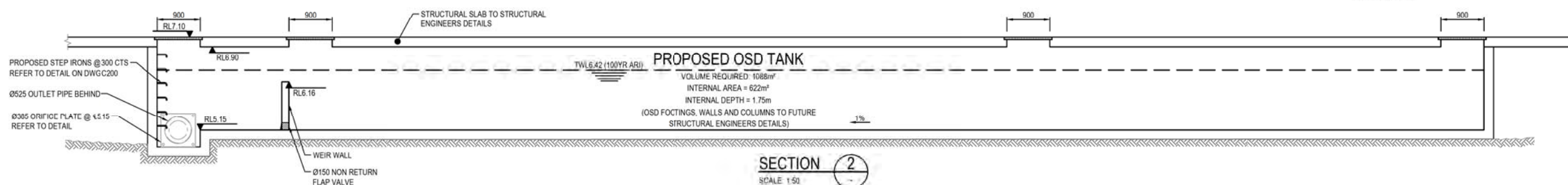
MAXIMESH RH3030 IS RECOMMENDED FOR ORIFICES LESS THAN 150mm IN DIAMETER AND SCREEN AREA 50x THE ORIFICE AREA REFER BURWOOD COUNCIL AND UPPER PARRAMATTA RIVER CATCHMENT TRUST HANDBOOK.



DEBRIS SCREEN DETAIL
NOT TO SCALE
ALL STEEL TO BE HOT DIPPED GALVANISED



SECTION 1
SCALE: 1:50



SECTION 2
SCALE: 1:50



ISSUED FOR APPROVAL

SURVEY
INFORMATION
SURVEYED BY:
LTS
LIA TUBA AND

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
01	ISSUED FOR APPROVAL	JK	LV	09.12.2020					
02	ISSUED FOR APPROVAL	JK	LV	14.09.2020					
03	ISSUED FOR COORDINATION	JK	LV	12.08.2020					

Client
WOOLWORTHS GROUP LIMITED
Architect
NETTLETON TRIBE

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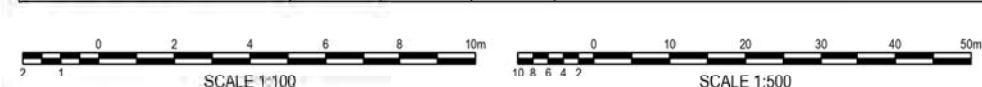
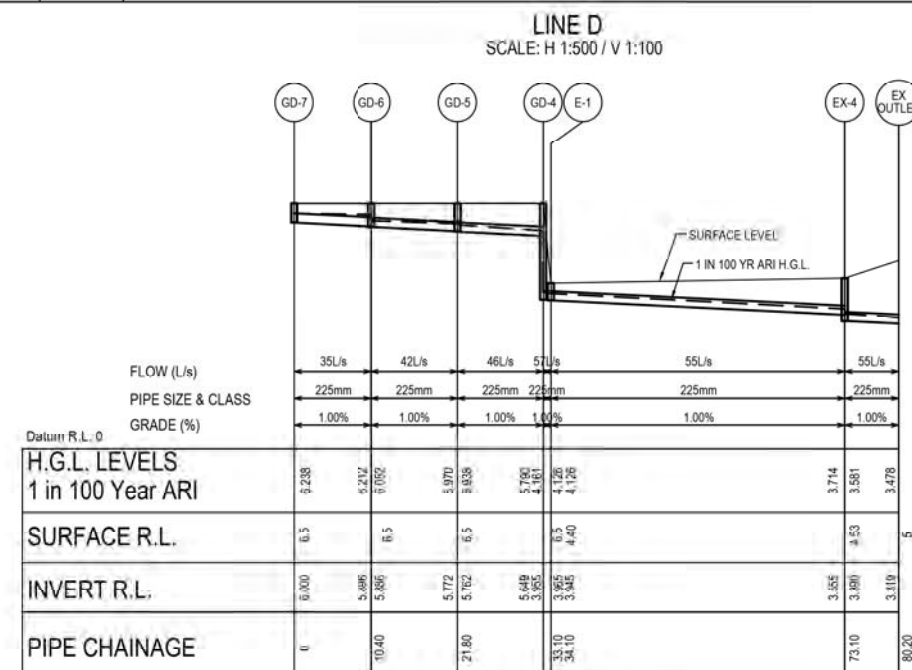
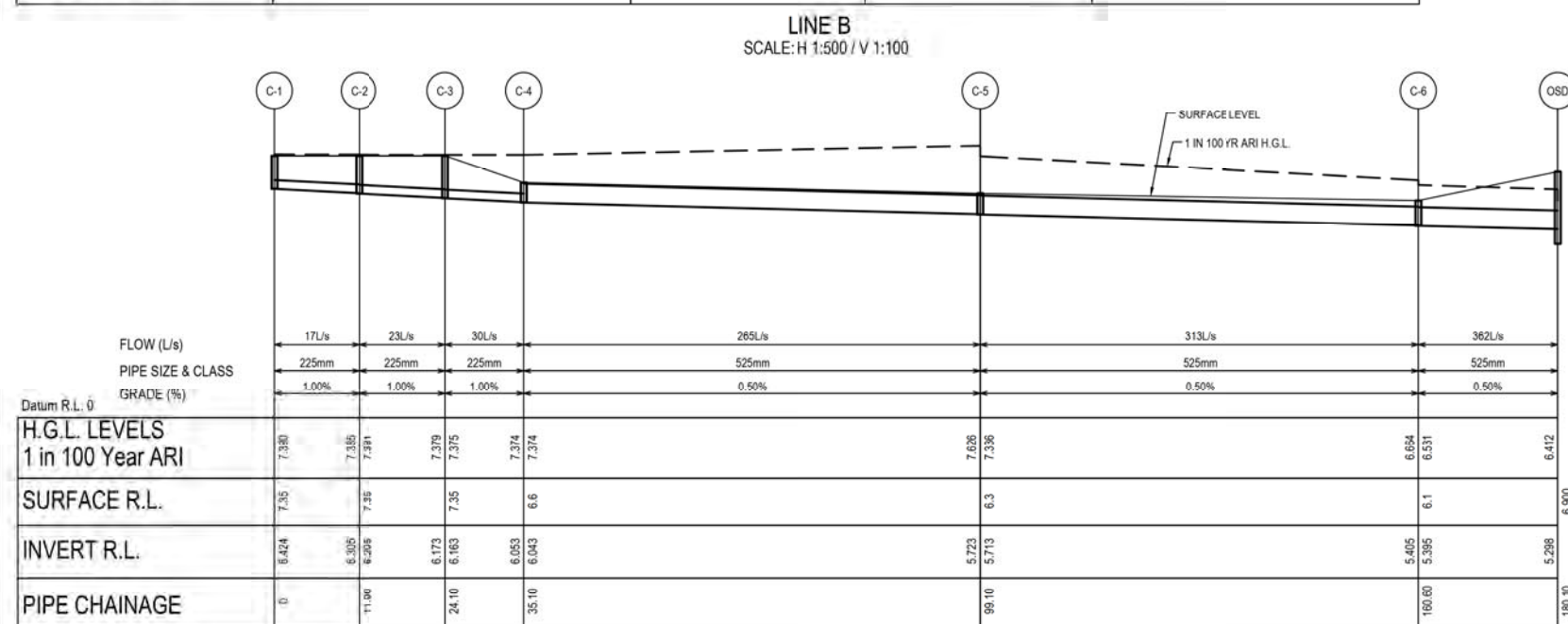
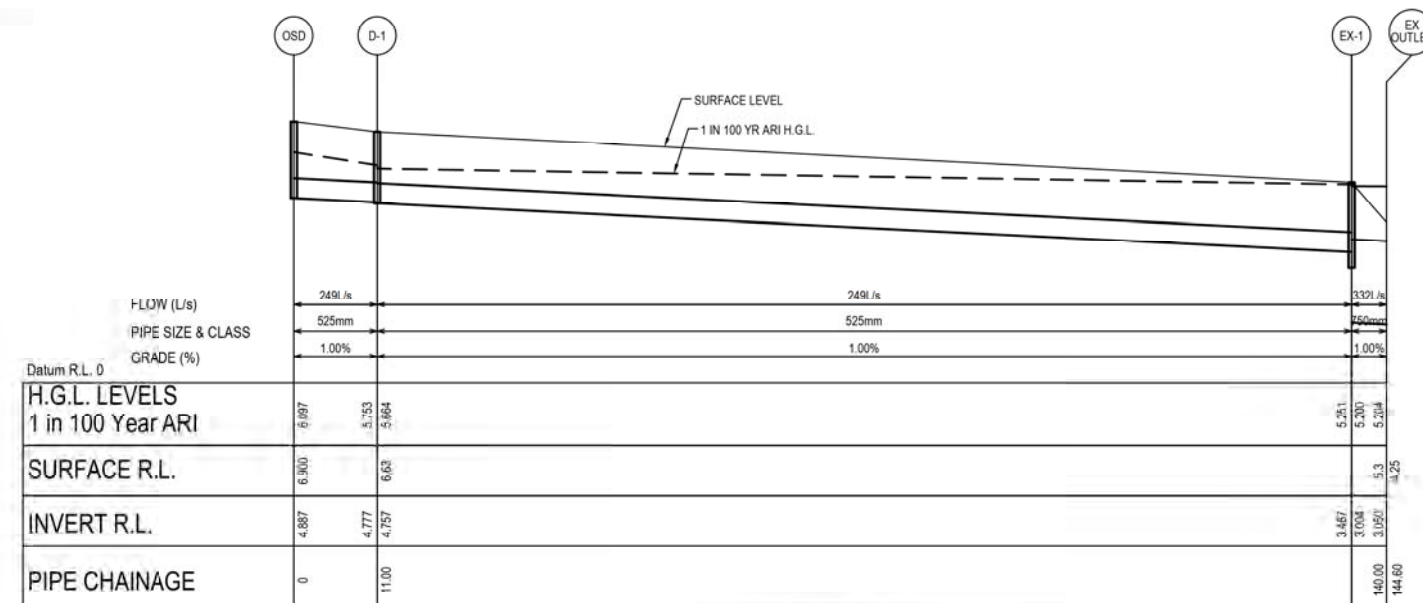
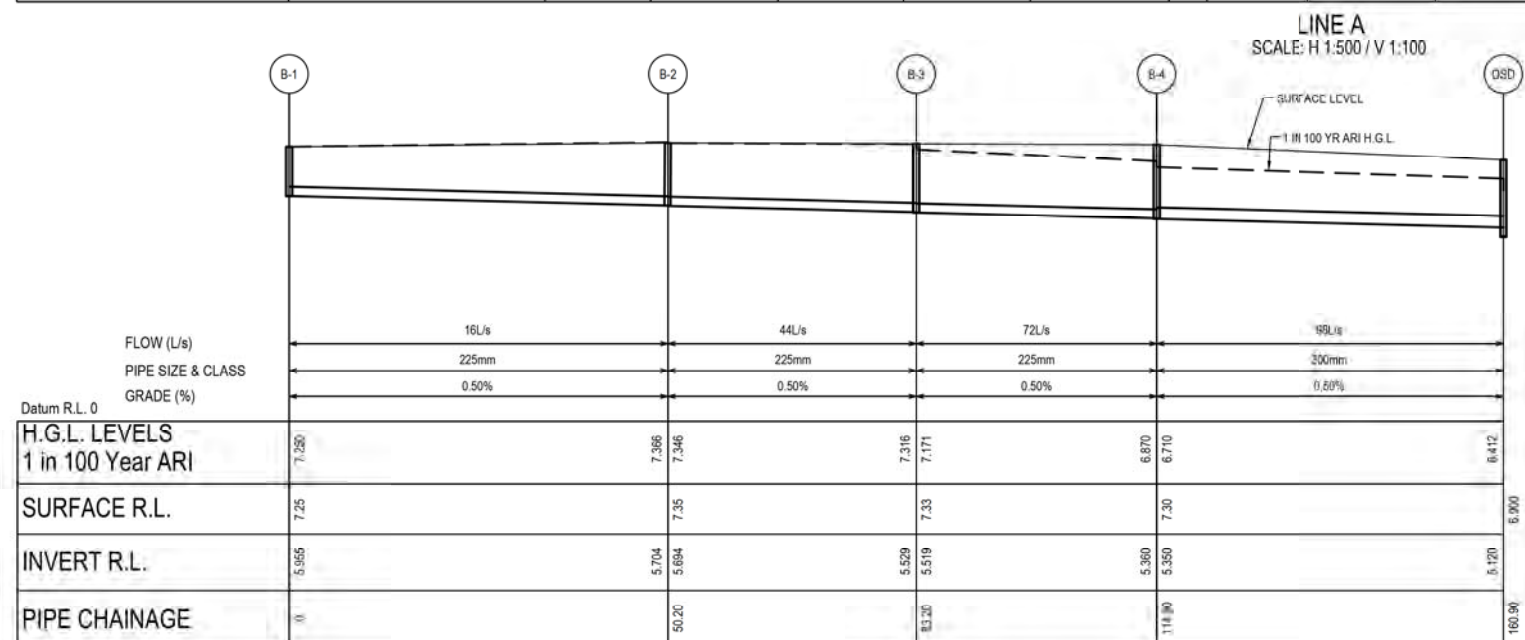
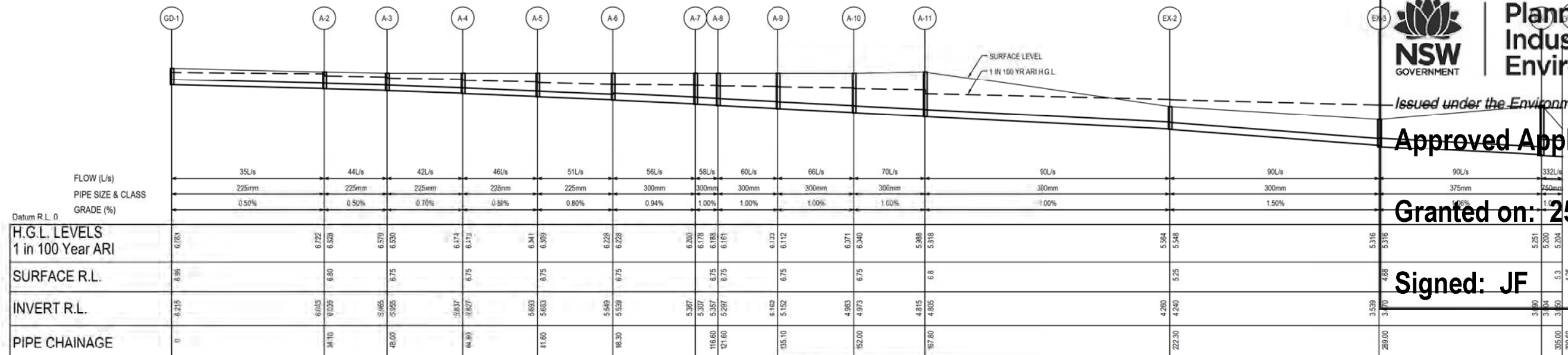
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Project
**PROPOSED WAREHOUSE DARK STORE
11-13 PERCY STREET, AUBURN NSW**
Title
OSD TANK PLAN, SECTIONS AND DETAILS

Drawn J. Knight	Designed L. Villa	Date JULY 2020
Checked B. Seizov	Approved A. Francis	Scale @A1 AS NOTED
Drawing number 19513_DA_C201	Revision 03	

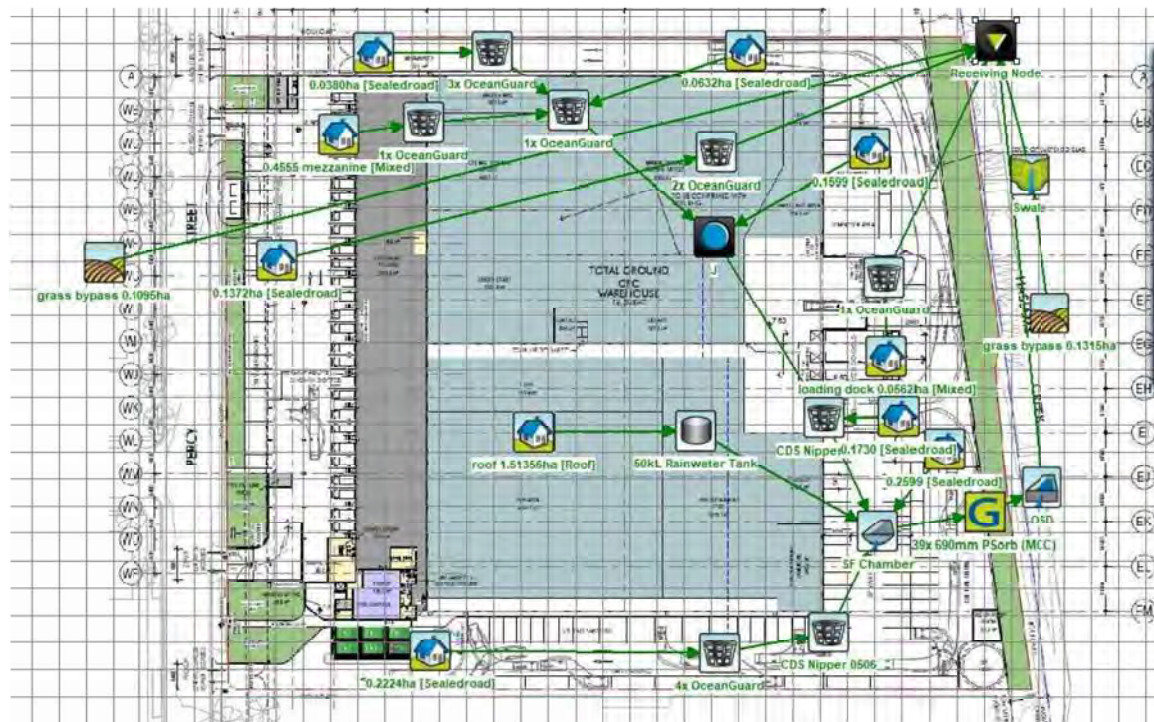


ISSUED FOR APPROVAL

Form B1¹ DRAINAGE DESIGN SUMMARY SUB/DA

Project: Sorting Facility Location: 11-13 Percy Street, Auburn NSW
Designed by: LV, BS Company: Henry & Hymas Pty Ltd Phone: 02 9417 8400

SITE AREA	<u>3.2477</u> ha	*See Section 3.4.3 for dual occupancy	[A]
Upstream catchment draining through site			[AA]
See Section 4.1.3 for assessment of external flows.			
Basic storage volume	<u>325</u> x [A] <u>0.8139</u>	= <u>1055.5</u> m ³	[B]
Basic discharge	<u>0.15</u> x [A] <u>0.8139</u>	= <u>0.487</u> m ³ /s	[C]
Area of site drained to storage		= <u>2.8273</u> ha	[D]
(Must be as much as possible and not be less than 85% of the total site without written Council approval).			
[D] / [A] x 100	<u>2.8273</u> / <u>3.2477</u> x 100	= <u>87.1</u> %	[E]
Storage per ha. of contributing area = [B] / [D]		= <u>373.33</u>	[F]
Enter volume/PSD adjustment chart (Fig 5.1) using [F], and Read new PSD in litres/second/ha (l/s/ha).		= <u>124.1</u> l/s/ha	[G]
Determine PSD = [G] x [D]	<u>124.1</u> x <u>2.8273</u>	= <u>351</u> l/s	[H]
Maximum head to orifice centre		= <u>1.75</u> m	[K]
Weir flow to storage $Q_{Weir} = CL(H_{Weir})^{1.5}$ ∴ H_{Weir}		= <u>0.735</u> m	[I]
Selected orifice diameter: $d = (0.464 \times Q / \sqrt{h})^{0.5} = (0.464 \times [H] / \sqrt{[K]})^{0.5}$		= <u>385</u> mm	[J]
Maximum discharge		= <u>351.1</u> l/s	[L]
Head for high early discharge		= <u>1.01</u> m	[M]
High early discharge $([L] \times \sqrt{[M] / [K]})$ (min 75% of [L])		= <u>323</u> l/s	[N]
Approximate mean discharge = $([L] + [N]) / 2$		= <u>337</u> l/s	[P]
Average discharge/ha = $[P] / [D]$	<u>337</u> / <u>2.8273</u>	= <u>119.1</u> l/s/ha	[Q]
Enter volume/PSD adjustment chart (Fig 5.1) using [Q] And read off final storage volume per hectare		= <u>385</u> m ³ /ha	[R]
Determine final SSR = $[R] \times [D]$	<u>385</u> x <u>2.8273</u>	= <u>1087.6</u> m ³	[S]
Primary storage proportion = $[S] \times 100$ %		= <u>1087.6</u> m ³	[T]
Secondary storage proportion = $[S] \times$ %		= <u>0</u> m ³	[U]
Tertiary storage proportion $[S] \times$ %		= <u>0</u> m ³	[V]
Check $[T] + [U] + [V] = [S]$		= <u>1088</u> m ³	

DRAINAGE RESULTS SUMMARY

MUSIC RESULTS
SCALE: NTS

STORMWATER DESIGN SUMMARY

TOTAL SITE AREA: 32,477 m²
BUILDING ROOF STORMWATER DIRECTED TO 50KL RAINWATER TANK FOR RE-USE PURPOSES.
HIGH LEVEL OVERFLOW AND SITE DISCHARGE DIRECTED TO NEARBY FILTERS CHAMBER, AS SPECIFIED ON DRAWING C102, VIA GRAVITY IN ACCORDANCE WITH COUNCIL REQUIREMENTS

ON-SITE DETENTION DESIGN SUMMARY

THE PROPOSED ON-SITE DETENTION TANK HAS BEEN SIZED TO COMPLY WITH THE REQUIREMENT FOR THE DEVELOPED STORMWATER RUNOFF TO BE LIMITED TO THE PSD NOMINATED IN THE AUBURN DEVELOPMENT CONTROL PLAN 2010 FOR SITES LOCATED IN ZONE 4 IN ACCORDANCE WITH THE TABLE BELOW.

	MINIMUM REQUIREMENT
PSD	150 l/s/ha
SSR	325 m ³ /ha

THE OSD HAS BEEN DESIGNED BASED ON THE RESULTS FROM THE UPPER PARRAMATTA RIVER CATCHMENT ON-SITE STORMWATER DETENTION HANDBOOK.

WATER SENSITIVE URBAN DESIGN SUMMARY

A STORMWATER MANAGEMENT PLAN HAS BEEN PREPARED TO LIMIT AND ELIMINATE ANY ADVERSE EFFECT ON THE ADJACENT ECOSYSTEM RESULTING FROM THE PROPOSED DEVELOPMENT. A MUSIC MODEL HAS BEEN PREPARED TO DETERMINE THE EFFECTIVENESS OF THE WATER QUALITY TREATMENT DEVICES AT REACHING THE REMOVAL RATES TARGETS SET BY CUMBERLAND COUNCIL'S WATER QUALITY TREATMENT DEVICES.

- PROPOSED TREATMENT DEVICES:
- 50KL RAINWATER TANK
 - 12x OCEANGUARD PIT BASKETS
 - 39x690 STORMFILTER CARTIRIDGES
 - 2x CDS Nipper 0506

REFER TO RESULT SUMMARY AND SCREENSHOT:

POLLUTANT	SOURCES	RESIDUAL LOAD	% REDUCTION	% TARGETS
TOTAL SUSPENDED SOLIDS	3710	740	80.1	80
TOTAL PHOSPHORUS	7.43	2.78	62.6	45
TOTAL NITROGEN	51.7	28.1	45.6	45
GROSS POLLUTANTS	584	0.00266	100	70

Treatment Train Effectiveness - Receiving Node			
	Sources	Residual Load	% Reduction
Flow (ML/yr)	22.8	21.4	6.5
Total Suspended Solids (kg/yr)	3710	740	80.1
Total Phosphorus (kg/yr)	7.43	2.78	62.6
Total Nitrogen (kg/yr)	51.7	28.1	45.6
Gross Pollutants (kg/yr)	584	0.00266	100



**Planning,
Industry &
Environment**

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD-10470

Granted on: 25 June 2021

Signed: JF Sheet No: 27 of 34

ISSUED FOR APPROVAL

**SURVEY
INFORMATION**

SURVEYED BY:
LTS
DATUM: AHD

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR APPROVAL	JK	LV	09.12.2020					
01	ISSUED FOR APPROVAL	JK	LV	14.09.2020					

Client:
WOOLWORTHS GROUP LIMITED

Architect:
NETTLETON TRIBE

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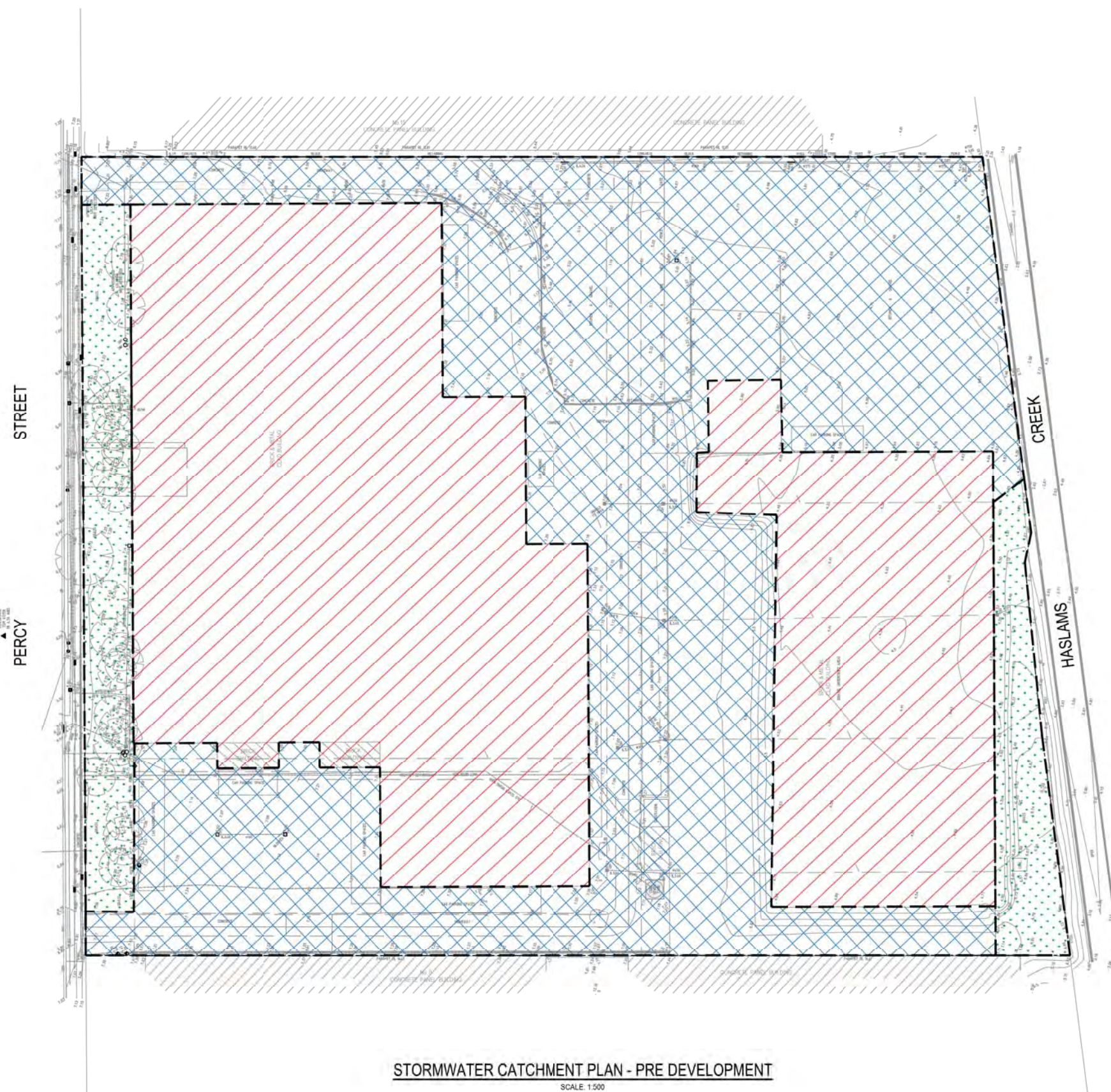
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Project:
**PROPOSED WAREHOUSE DARK STORE
11-13 PERCY STREET, AUBURN NSW**

Title:
STORMWATER DESIGN RESULTS

Drawn J. Knight	Designed L. Villa	Date JULY 2020
Checked B. Seizov	Approved A. Francis	Scale (A1) NTS
Drawing number 19513_DA_C203		Revision 02



PRE-DEVELOPMENT - TOTAL SITE = 32477m²

 PERVIOUS AREA = 2483m² (7%)

 ROOF AREA = 15156m² (47%)

 PAVED AREA = 14838m² (46%)



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Industry &
Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD-10470

Granted on: 25 June 2021

Signed: JF Sheet No: 28 of 34

ISSUED FOR APPROVAL

**SURVEY
INFORMATION**
SURVEYED BY:
LTS
LIA TUAH AREA

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR APPROVAL	JK	LV	14.09.2020					
02	ISSUED FOR COORDINATION	JK	LV	12.08.2020					
01	ISSUED FOR PRELIMINARY	JK	LV	07.06.2020					

Client:
WOOLWORTHS GROUP LIMITED
Architect:
NETTLETON TRIBE

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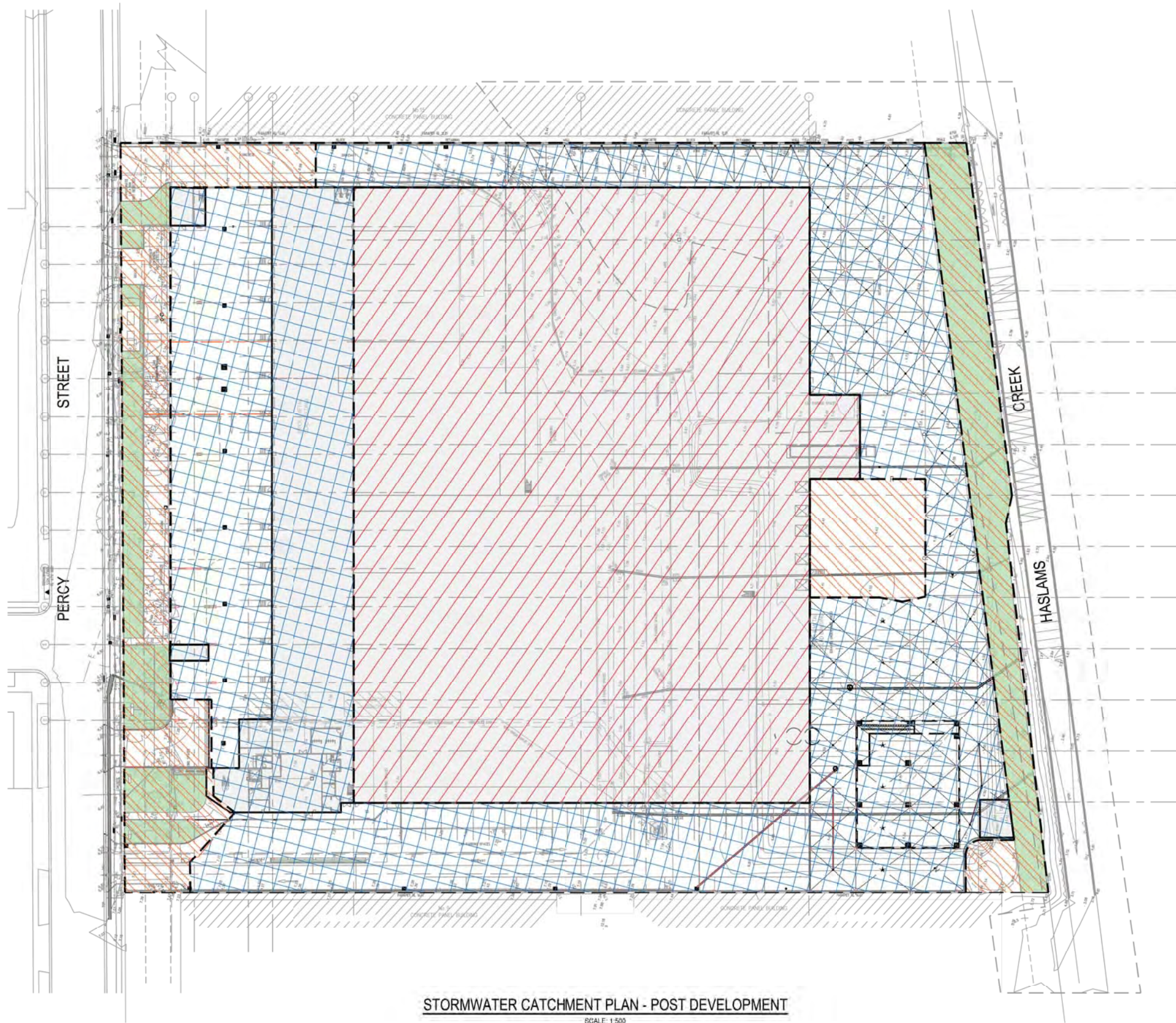
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Project
**PROPOSED WAREHOUSE DARK STORE
11-13 PERCY STREET, AUBURN NSW**
Title
**STORMWATER CATCHMENT PLAN
PRE DEVELOPMENT**

Drawn J. Knight	Designed L. Villa	Date JULY 2020
Checked B. Seizov	Approved A. Francis	Scale (A1) 1:500
Drawing number 19513_DA_C250		Revision 03



POST-DEVELOPMENT - TOTAL SITE = 32477m²



AREA TO OSD = 28273 m² (87%)



OED BYPASS = 4204 m² (13%)



ROOF AREA TO RAINWATER TANK = 15135 m² (47%)



Planning,
Industry &
Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD-10470

Granted on: 25 June 2021

Signed: JF

Sheet No: 29 of 34

ISSUED FOR APPROVAL

**SURVEY
INFORMATION**

SURVEYED BY:
LTS
DATUM: AHD

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
01	ISSUED FOR APPROVAL	JK	LV	15.12.2020					
02	ISSUED FOR APPROVAL	JK	LV	09.12.2020					
03	ISSUED FOR APPROVAL	JK	LV	14.09.2020					
04	ISSUED FOR CO-ORDINATION	JK	LV	12.08.2020					
05	ISSUED FOR PRELIMINARY	JK	LV	07.08.2020					

WOOLWORTHS GROUP LIMITED

NETTLETON TRIBE

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Project
PROPOSED WAREHOUSE DARK STORE
11-13 PERCY STREET, AUBURN NSW

Stormwater Catchment Plan
POST DEVELOPMENT

Drawn
J. Knight

Designed
L. Villa

Date
JULY 2020

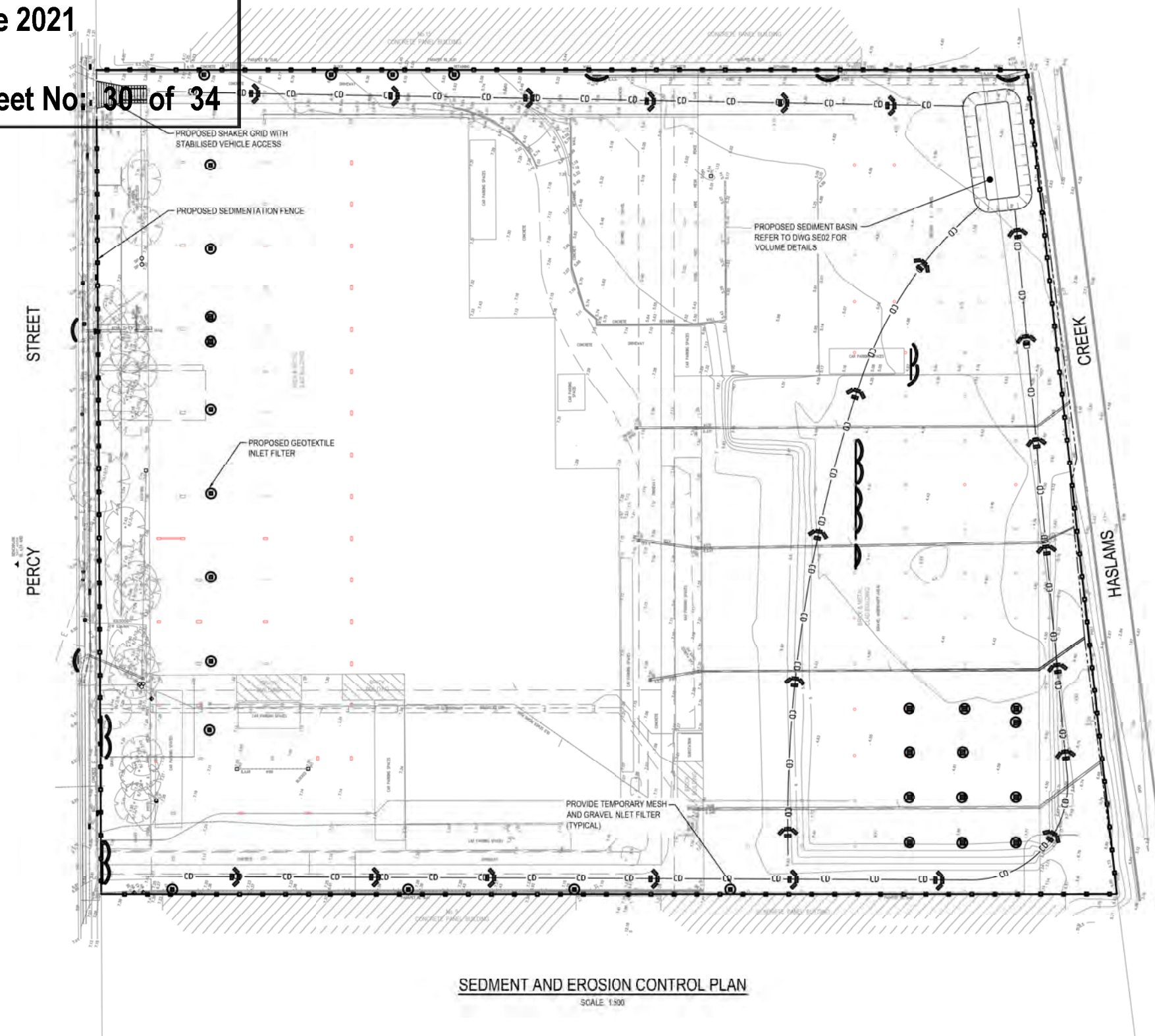
Checked
B. Seizov

Approved
A. Francis

Scale @A1
1:500

Drawing number
19513_DA_C251

Revision
05



LEGEND

- PROPOSED BOUNDARY
- PROPOSED SEDIMENTATION FENCE
- GEOTEXTILE INLET FILTER
- PROPOSED MESH & GRAVEL INLET FILTER

SEDIMENT & EROSION CONTROL NOTES

- ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH RESPECTIVE COUNCIL SPECIFICATIONS AND LANDCOM 'SOIL AND CONSTRUCTION' MANUAL.
- ALL PERIMETER & SILTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN EARTH WORKS AND/OR CLEARING.
- THE SEDIMENT & EROSION CONTROL PLAN MAY REQUIRE FUTURE ADJUSTMENT TO REFLECT CONSTRUCTION STAGING. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO PREPARE THEIR OWN SEDIMENT AND EROSION CONTROL PLAN WHICH SUITS THE DESIGNED CONSTRUCTION STAGING.
- FILTRATION BUFFER ZONES ARE TO BE FENCED OFF AND ACCESS PROHIBITED TO ALL PLANT AND MACHINERY.
- ALL TEMPORARY EARTH BERMS, DIVERSIONS & SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED & MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
- 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 LOCATION.
- ALL TOPSOIL IS TO BE STOCKPILED ON SITE FOR REUSE (AWAY FROM TILES AND DRAINAGE LINES). MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE STOCKPILES.
- ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO SEAL THE EARTHWORKS.
- ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND STRAW MULCHED WITHIN 14 DAYS OF COMPLETION OF FORMATION U.N.O. BY LANDSCAPE ARCHITECTS.
- UPON COMPLETION OF ALL EARTHWORKS OR AS DIRECTED BY COUNCIL SOIL CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED, EROSION PROOF WITHIN 14 DAYS.
- EROSION AND SILT PROTECTION MEASURES ARE TO BE MAINTAINED AT ALL TIMES.
- EXCAVATION PLANT TO BE CRANED INTO SITE ONCE SITE ACCESS RAMP IS IMPRACTICAL.

CONSTRUCTION SEQUENCE

WORKS SHALL BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:

- INSTALL SEDIMENT FENCING AND CUT DRAINS TO MEET THE REQUIREMENTS OF THE SEDIMENT AND EROSION CONTROL PLAN. WASTE COLLECTION BINS SHALL BE INSTALLED ADJACENT TO SITE OFFICE.
- CONSTRUCT STABILISED SITE ACCESS IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL'S REQUIREMENTS.
- REDIRECT CLEAN WATER AROUND THE CONSTRUCTION SITE.
- INSTALL SEDIMENT CONTROL PROTECTION MEASURES AT ALL NATURAL AND MAN-MADE DRAINAGE STRUCTURES. MAINTAIN UNTIL ALL THE DISTURBED AREAS ARE STABILISED.
- CLEAR AND STRIP THE WORK AREAS. MINIMISE THE DAMAGE TO THE GRASS AND LOW GROUND COVER OF NON-DISTURBED AREAS.
- ANY DISTURBED AREAS, OTHER THAN BUILDING PAD AREAS, SHALL IMMEDIATELY BE COVERED WITH SITE TOPSOIL WITHIN 7 DAYS OF CLEARING. BUILDING PAD AREAS SHALL BE COVERED WITH BITUMEN EMULSION AS SPECIFIED.
- APPLY PERMANENT STABILISATION TO SITE (LANDSCAPING).

0 10 20 30 40 50m
SCALE 1:500

SEDIMENT AND EROSION CONTROL PLAN
SCALE 1:500

ISSUED FOR APPROVAL

SURVEY
INFORMATION
SURVEYED BY:
LTS
DATUM: AHD

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
01	ISSUED FOR APPROVAL	JK	LV	15.12.2020					
02	ISSUED FOR APPROVAL	JK	LV	09.12.2020					
03	ISSUED FOR APPROVAL	JK	LV	14.09.2020					
04	ISSUED FOR CO-ORDINATION	JK	LV	12.08.2020					
05	ISSUED FOR PRELIMINARY	JK	LV	07.08.2020					

WOOLWORTHS GROUP LIMITED
Architect:
NETTLETON TRIBE

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Project
PROPOSED WAREHOUSE DARK STORE
11-13 PERCY STREET, AUBURN NSW
Title
SEDIMENT AND EROSION CONTROL PLAN

Drawn J. Knight	Designed L. Villa	Date JULY 2020
Checked B. Seizov	Approved A. Francis	Scale (A1) 1:500
Drawing number 19513_DA_SE01		Revision 05



Planning,
Industry &
Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD-10470

Granted on: 25 June 2021

Signed: JF Sheet No: 32 of 34

LEGEND

	EXISTING BOUNDARY
	LINE OF EXISTING EASEMENT
	6.90
	PROPOSED CONTOURS

DEPTH OF CUT & FILL RANGE			COLOUR
LOWER VALUE	UPPER VALUE		
-3.00	to -2.00	m	
-2.00	to -1.50	m	
-1.50	to -1.00	m	
-1.00	to -0.80	m	
-0.80	to -0.60	m	
-0.60	to -0.40	m	
-0.40	to -0.20	m	
-0.20	to -0.10	m	
-0.10	to -0.05	m	
-0.05	to 0.00	m	
0.0	to 0.05	m	
0.05	to 0.10	m	
0.10	to 0.20	m	
0.20	to 0.40	m	
0.40	to 0.60	m	
0.60	to 0.80	m	
0.80	to 1.00	m	
1.00	to 1.50	m	
1.50	to 2.00	m	
2.00	to 3.00	m	

BULK EARTHWORKS QUANTITIES

TOTAL AREA (19,045m²)

CUT	1,892 m ³
FILL	6,220 m ³
EXCESS OF FILL OVER CUT	4,328 m ³

EXCAVATION FOR SERVICE TRENCHES NOT INCLUDED IN CALCULATION

EXCAVATION FOR RETAINING WALL FOOTINGS NOT INCLUDED IN CALCULATION

THE VOLUME SHOWN ABOVE HAS BEEN CALCULATED AFTER STRIPPING THE TOP SOIL AND EXISTING CONCRETE AND PAVEMENT AREAS OFF THE EXISTING SURFACE. STRIPPING HAS BEEN ASSUMED AT 150mm FOR TOPSOIL AND LIGHT DUTY PAVEMENT. HARDSTAND 250mm HAS BEEN REMOVED FROM THE CALCULATIONS FOR THE EXISTING BUILDING SLAB.

PAVEMENT THICKNESS *INCLUDING BEDDING THICKNESS*

CARPARK	300	mm
BUILDING	300	mm
FOOTPATHS/HARDSTAND AREAS	150	mm
LANDSCAPING/BATTER AREAS	100	mm

BULK EARTHWORKS CUT/FILL PLAN

SCALE: 1:500



ISSUED FOR APPROVAL

SURVEY INFORMATION

SURVEYED BY:
LTS
LIA YUEN

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
01	ISSUED FOR APPROVAL	JK	LV	14.09.2020					
02	ISSUED FOR COORDINATION	JK	LV	12.08.2020					

Client:
WOOLWORTHS GROUP LIMITED

Architect:
NETTLETON TRIBE

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Project:
**PROPOSED WAREHOUSE DARK STORE
11-13 PERCY STREET, AUBURN NSW**

Drawing number:
**BULK EARTHWORKS
CUT/FILL PLAN**

Drawn:
B. Hurlstone

Designed:
B. Hurlstone

Checked:
B. Seizov

Approved:
A. Francis

Scale (A1)
1:500

Revision:
19513_DA_BE01

02

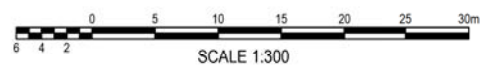
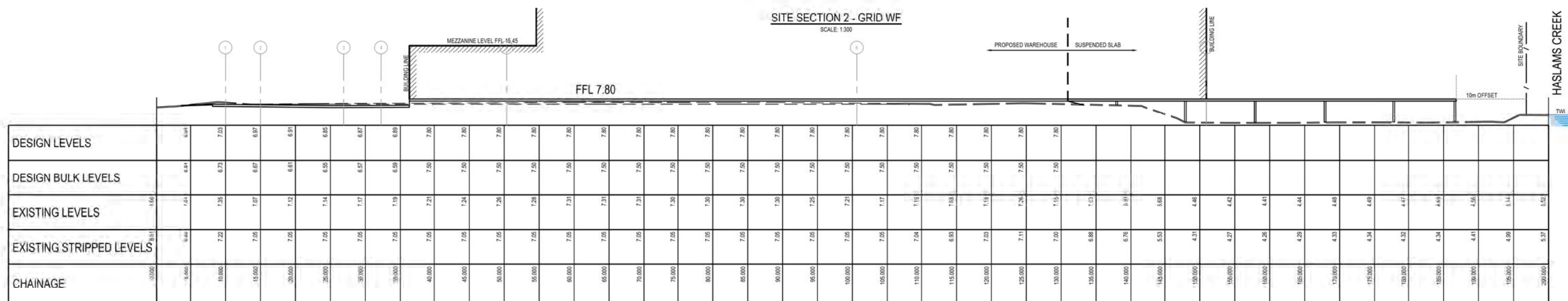
Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD-10470

Granted on: 25 June 2021

Signed: JF

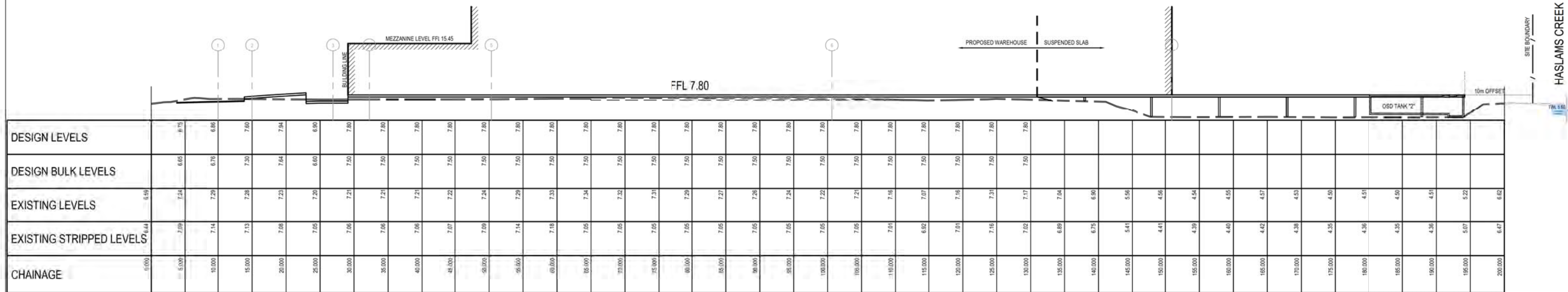
Sheet No: 33 of 34



SITE SECTION 3 - GRID WK
SCALE: 1:300

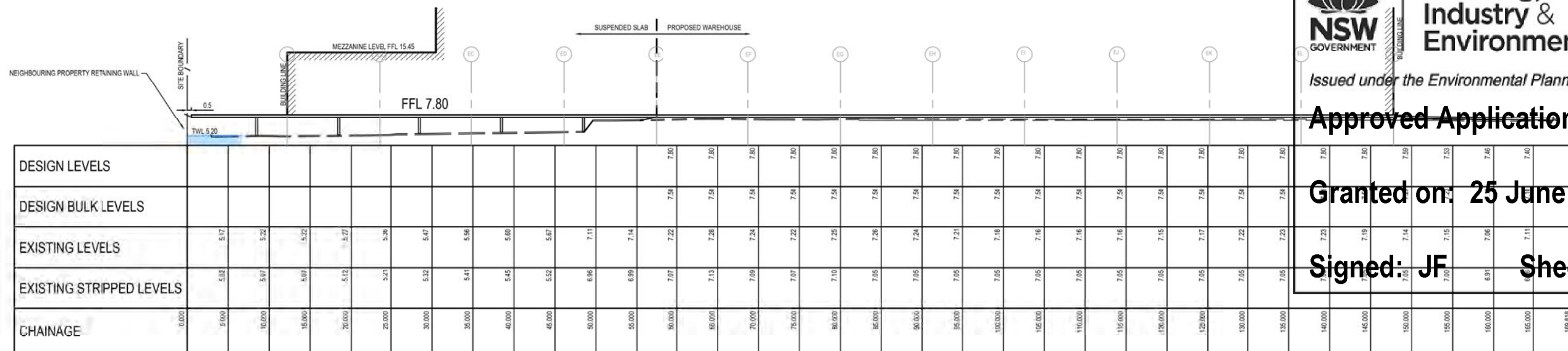
ISSUED FOR APPROVAL

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SITE SECTION 4 - GRID WO

SCALE 1:300



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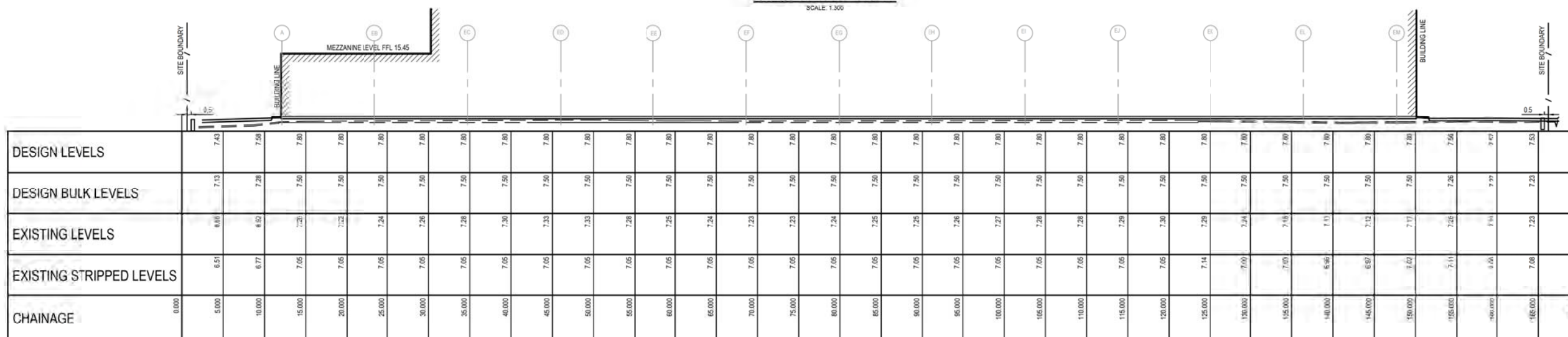
Approved Application No: SSD-10470

Granted on: 25 June 2021

Signed: JF Sheet No: 34 of 34

SITE SECTION 5 - GRID 6

SCALE 1:300



SITE SECTION 6 - GRID 5

SCALE 1:300



ISSUED FOR APPROVAL

SURVEY
INFORMATION
SURVEYED BY:
LTS
LIA YUAM AHEI

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
01	ISSUED FOR APPROVAL	JK	LV	14.09.2020					
02	ISSUED FOR COORDINATION	JK	LV	12.06.2020					

Client:
WOOLWORTHS GROUP LIMITED

Architect:
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11-13 PERCY STREET, AUBURN NSW**

Drawn
B.Hurlstone

Designed
B.Hurlstone

Checked
B.Seizov

Approved
A.Francis

Scale (A1)
1:300

Revision
02

Drawing number
19513_DA_BE03