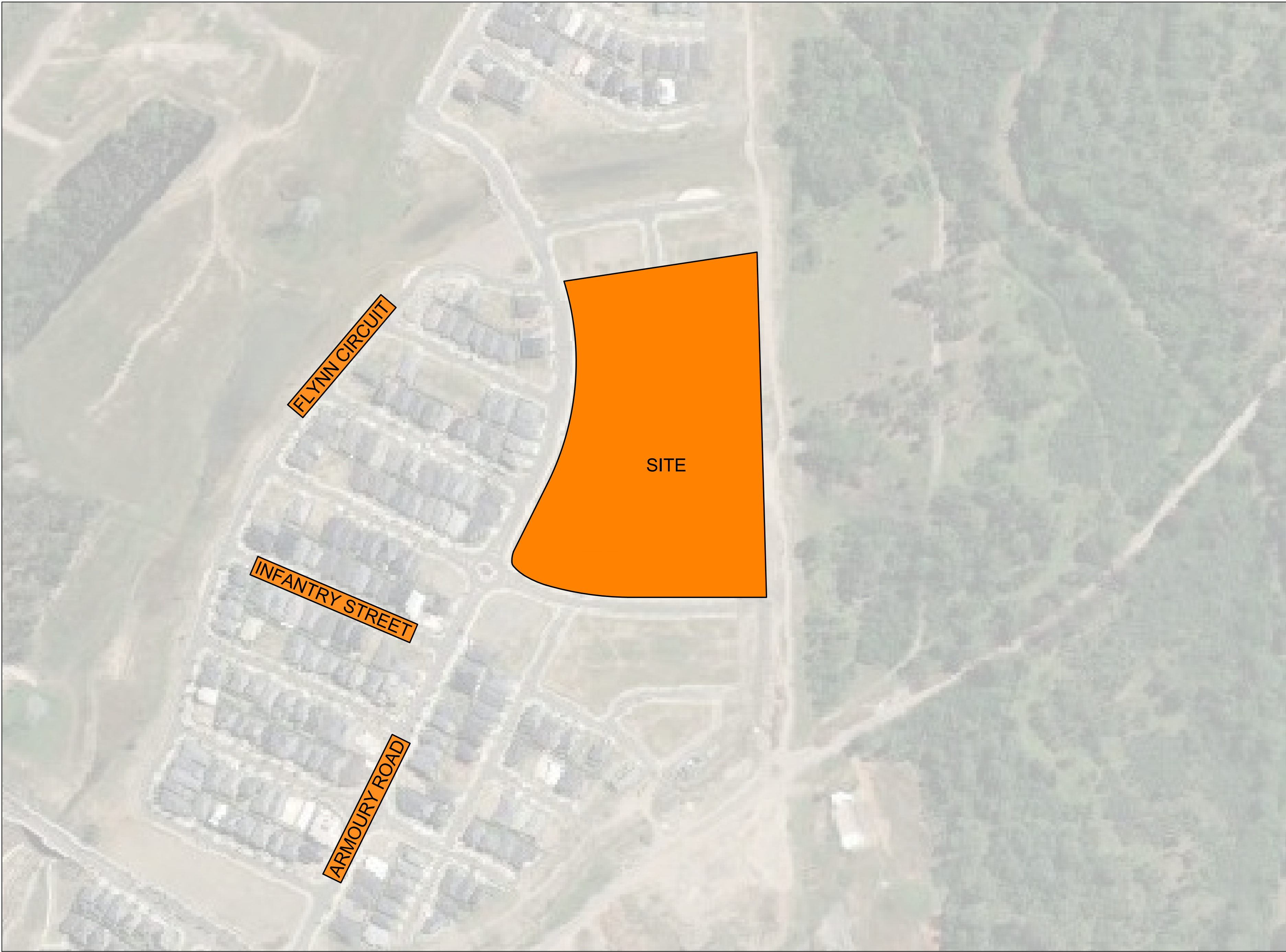


NEW HIGH SCHOOL FOR JORDAN SPRINGS

LOT 2 AND 3 DP1248480 JORDAN SPRINGS, NSW 2747



NUMBER	DRAWING TITLE
GENERAL-00000	
JSHS-TTW-01-00-DR-C-00001	GENERAL COVER SHEET
JSHS-TTW-01-00-DR-C-00003	GENERAL NOTES AND LEGEND SHEET 1
JSHS-TTW-01-00-DR-C-00303	DEMOLITION PLAN
JSHS-TTW-01-00-DR-C-00401	GENERAL ARRANGEMENT PLAN SHEET 1
JSHS-TTW-01-00-DR-C-00402	GENERAL ARRANGEMENT PLAN SHEET 2
JSHS-TTW-01-00-DR-C-00403	GENERAL ARRANGEMENT PLAN SHEET 3
JSHS-TTW-01-00-DR-C-00404	GENERAL ARRANGEMENT PLAN SHEET 4
EROSION AND SEDIMENT CONTROL-02000	
JSHS-TTW-01-00-DR-C-02001	EROSION AND SEDIMENT CONTROL NOTES AND LEGEND SHEET 1
JSHS-TTW-01-00-DR-C-02101	EROSION AND SEDIMENT CONTROL PLAN
EARTHWORKS-03000	
JSHS-TTW-01-00-DR-C-03101	EARTHWORKS CUT AND FILL VOLUMES PLAN
STORMWATER-04000	
JSHS-TTW-01-00-DR-C-04001	STORMWATER NOTES AND LEGEND SHEET 1
JSHS-TTW-01-00-DR-C-04101	STORMWATER AND SUBSOIL DRAINAGE PLAN SHEET 1
JSHS-TTW-01-00-DR-C-04102	STORMWATER AND SUBSOIL DRAINAGE PLAN SHEET 2
JSHS-TTW-01-00-DR-C-04103	STORMWATER AND SUBSOIL DRAINAGE PLAN SHEET 3
JSHS-TTW-01-00-DR-C-04104	STORMWATER AND SUBSOIL DRAINAGE PLAN SHEET 4
PAVEMENT-07000	
JSHS-TTW-01-00-DR-C-07001	PAVEMENT NOTES AND LEGEND
JSHS-TTW-01-00-DR-C-07101	PAVEMENT PLAN
JSHS-TTW-01-00-DR-C-07501	PAVEMENT DETAILS SHEET 1
JSHS-TTW-01-00-DR-C-07502	PAVEMENT DETAILS SHEET 2
JSHS-TTW-01-00-DR-C-07503	PAVEMENT DETAILS SHEET 3
SIGNAGE AND LINEMARKING-08000	
JSHS-TTW-01-00-DR-C-08101	SIGNAGE AND LINEMARKING PLAN
JSHS-TTW-01-00-DR-C-08102	SIGNAGE AND LINEMARKING INTERSECTION LAYOUT PLAN

NOT FOR CONSTRUCTION

This drawing is copyright and is the property of TTW and must not be used without authorisation. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES AND LEGENDS

GENERAL

- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES TO BE REPORTED TO THE SUPERINTENDENT.
- STRIP ALL TOPSOIL FROM THE CONSTRUCTION AREA. ALL STRIPPED TOPSOIL SHALL BE DISPOSED OF OFF-SITE UNLESS DIRECTED OTHERWISE.
- MAKE SMOOTH CONNECTION WITH ALL EXISTING WORKS.
- 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.
- 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.
- 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.
- FOR ALL TEMPORARY BATTERS REFER TO GEOTECHNICAL RECOMMENDATIONS.

REFERENCE DRAWINGS

- 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	DRAWING TITLE	DRAWING NUMBER	REVISION	DATE
DJRD	ARCH	JSHS-DJRD-00-00-DR-A-0101	P03	11.11.2024
ASTREA	SURVEY	A4307-TOPO&UTIL		04.2024
ENSPIRE	JORDAN SPRINGS EAST STAGE 5	210054-52-DA-C01.40	3	31.05.24

BOUNDARIES AND EASEMENTS

- THE PROPERTY BOUNDARY AND EASEMENT LOCATIONS SHOWN ON TAYLOR THOMSON WHITTING DRAWING'S HAVE BEEN BASED ON INFORMATION RECEIVED FROM : SURVEYOR
- 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.

SURVEY

- ORIGIN OF LEVELS:
DATUM OF LEVELS:
COORDINATE SYSTEM:
SURVEY PREPARED BY:
SETOUT POINTS:

SSM 198983
AHD
MGA2020
ASTREA
CONTACT SURVEYOR
- TAYLOR THOMSON WHITTING DOES NOT GUARANTEE THAT THE SURVEY 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.

UNDERGROUND SERVICES - WARNING

- THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON TAYLOR THOMSON WHITTINGS DRAWINGS HAVE BEEN PLOTTED FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES. THIS INFORMATION HAS BEEN PREPARED SOLELY FOR THE AUTHORITIES 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.
- 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.

BEFORE YOU DIG AUSTRALIA (BYDA)

- PUBLIC SERVICE UTILITY INFORMATION SHOWN ON PLAN HAS BEEN COMPLIED FROM INFORMATION RECEIVED FROM DIAL BEFORE YOU DIG INQUIRY, REFERENCE NUMBER NO.37849859
- OBTAINED ON 18.10.2024 UNLESS SPECIFICALLY SHOWN OTHERWISE, THIS LOCATION AND DEPTH OF SERVICES SHOWN ON THIS PLAN HAVE NOT BEEN VERIFIED
- THE LOCATION OF SERVICES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED AS ACCURATELY AS POSSIBLE FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES AND SHOULD BE CONFIRMED BY SITE INSPECTION."

SITE WORKS

- ALL BASECOURSE MATERIAL TO COMPLY WITH RMS SPECIFICATION NO 3051 AND COMPACTED TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.
- ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH AN APPROVED SELECT MATERIAL AND COMPACTED TO A MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1

PUBLIC DOMAIN WORKS

- PUBLIC DOMAIN WORKS ARE NOT TO COMMENCE UNTIL THESE DRAWINGS ARE STAMPED AS APPROVED.

TENDER DOCUMENTATION

- THESE DRAWINGS ARE PRELIMINARY DRAWINGS ISSUED FOR TENDER AS AN INDICATION OF THE EXTENT OF WORKS ONLY. THEY ARE NOT A COMPLETE CONSTRUCTION SET OF DRAWINGS.
- TO DETERMINE THE FULL EXTENT OF WORK, THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND OTHER CONTRACT DOCUMENTS. ALLOW FOR ALL ITEMS SHOWN ON ARCHITECTURAL AND OTHER DRAWINGS AS NOT ALL ITEMS ARE SHOWN ON THE STRUCTURAL/CIVIL WORKS DRAWINGS.
- SHOULD ANY AMBIGUITY, ERROR, OMISSIONS, DISCREPANCY, INCONSISTENCY OR OTHER FAULT EXIST OR SEEM TO EXIST IN THE DOCUMENTS, IMMEDIATELY NOTIFY IN WRITING TO THE SUPERINTENDENT.
- RATES SHOWN ON THE DRAWINGS ARE FOR THE FINAL STRUCTURE/CIVIL WORKS IN PLACE AND DO NOT ALLOW FOR ANY WASTAGE, ROLLING MARGINS, OVER SUPPLY OR FABRICATION REQUIREMENTS. ETC.

DESIGN AND CONSTRUCT DOCUMENTATION

- THE LEVEL OF DETAIL / DESIGN REFLECTED IN THESE DOCUMENTS IS BASED ON THE UNDERSTANDING THIS WILL BE BUILT AS PART OF A DESIGN & CONSTRUCT CONTRACT.
- THE CONTRACTOR SHALL RETAIN THE RESPONSIBILITY TO UNDERTAKE DETAILED DESIGN, CONFIRM COMPLIANCE WITH RELEVANT STANDARDS, CONSENT CONDITIONS & THE SPECIFICATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE FINAL DESIGN IS CO-ORDINATED FULLY WITH OTHER CONSULTANTS.
- NO VARIATION WILL BE ACCEPTED FOR DESIGN AMENDMENTS REQUIRED TO MEET THE FUNCTIONAL OBJECTIVE OF THIS DOCUMENTATION.

SAFETY IN DESIGN

CONTRACTOR TO REFER TO APPENDIX B OF THE CIVIL SPECIFICATION FOR THE CIVIL RISK AND SOLUTIONS REGISTER.

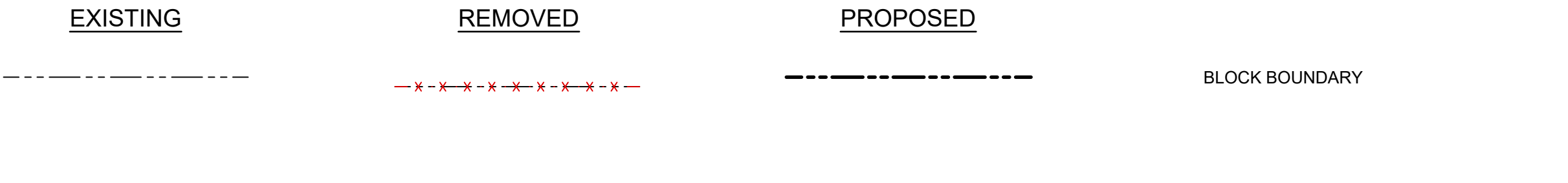
- EXISTING SERVICES
CONTRACTOR TO BE AWARE EXISTING SERVICES ARE LOCATED WITHIN THE SITE. LOCATION OF ALL SERVICES TO BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORKS. CONTRACTOR TO CONFIRM WITH RELEVANT AUTHORITY REGARDING MEASURES TO BE TAKEN TO ENSURE SERVICES ARE PROTECTED OR PROCEDURES ARE IN PLACE TO DEMOLISH AND/OR RELOCATE.
- EXISTING STRUCTURES
CONTRACTOR TO BE AWARE EXISTING STRUCTURES MAY EXIST WITHIN THE SITE. TO PREVENT DAMAGE TO EXISTING STRUCTURE(S) AND/OR PERSONNEL, SITE WORKS TO BE CARRIED OUT AS FAR AS PRACTICABLY POSSIBLE FROM EXISTING STRUCTURE(S).
- 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 PRACTICABLY POSSIBLE 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 WORKS. 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
 - STANTEC AUSTRALIA PTY LTD
 - INTRUSIVE GEOTECHNICAL INVESTIGATION REPORT (No. 304100928) DATED 22 AUGUST 2024
- 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
 - STANTEC AUSTRALIA PTY LTD
 - PRELIMINARY DESKTOP SITE INVESTIGATION REPORT (No. 304100928) DATED 5 APRIL 2024
- 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 FOOTPATHS 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.

CIVIL INSPECTION CERTIFICATES

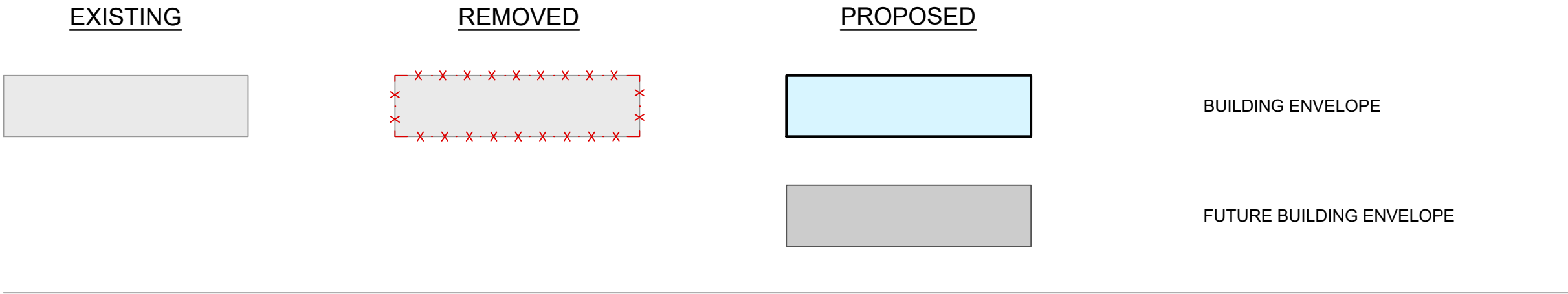
THE FOLLOWING MUST BE PROVIDED BY THE CONTRACTOR A MINIMUM 2 WEEKS PRIOR TO THE REQUESTED DATE OF A CIVIL INSPECTION CERTIFICATE FOR OCCUPATION CERTIFICATE. SUBMISSIONS MUST BE PROVIDED PROGRESSIVELY AS WORKS ARE COMPLETED IN ACCORDANCE WITH THE CIVIL SPECIFICATION. THE PROGRAM MUST ALLOW ADEQUATE TIME FOR DEFECTS TO BE RECTIFIED SHOULD THIS BE REQUIRED.

- NOTIFICATION THAT ALL CIVIL WORKS TO BE CERTIFIED HAVE BEEN COMPLETED TO ALLOW A FINAL INSPECTION TO BE UNDERTAKEN.
- WRITTEN CONFIRMATION FROM THE CONTRACTOR THAT ALL CIVIL SITE INSPECTION REPORTS HAVE BEEN CLOSED OUT.
- CCTV (INCLUDING WINCAN LOG OR EQUIVALENT) OF ALL CIVIL STORMWATER WORKS TO BE CERTIFIED.
- WAE FROM A REGISTERED SURVEYOR (PDF & DWG) FOR ALL CIVIL STORMWATER TO BE CERTIFIED.
- WAE FROM A REGISTERED SURVEYOR (PDF, DWG & 3D TIN) FOR ALL EXTERNAL CIVIL LEVELS TO BE CERTIFIED.
- HEAD CONTRACTORS STATEMENT OF CONSTRUCTION COMPLIANCE.
- HYDRAULIC CONTRACTORS INSTALLATION CERTIFICATE.
- 3RD PARTY INSTALLATION CERTIFICATES FOR PROPRIETARY PRODUCTS AND/OR D&C ELEMENTS.
- COMPACTION TEST RESULTS IN ACCORDANCE WITH THE CIVIL SPECIFICATION.
- MATERIALS CERTIFICATES PRIOR TO INSTALLATION IN ACCORDANCE WITH THE CIVIL SPECIFICATION.
- WRITTEN CONFIRMATION FROM TfNSW AND/OR COUNCIL CONFIRMING COMPLETION AND ACCEPTANCE OF S138 WORKS IF APPLICABLE.

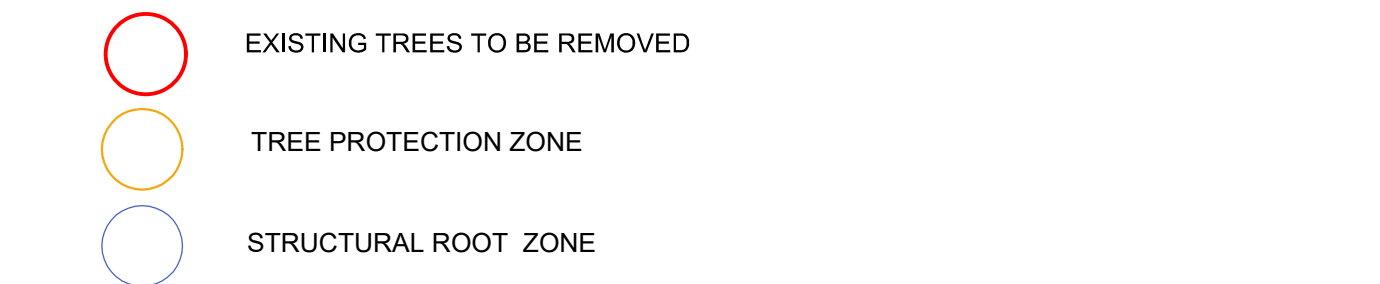
BOUNDARIES



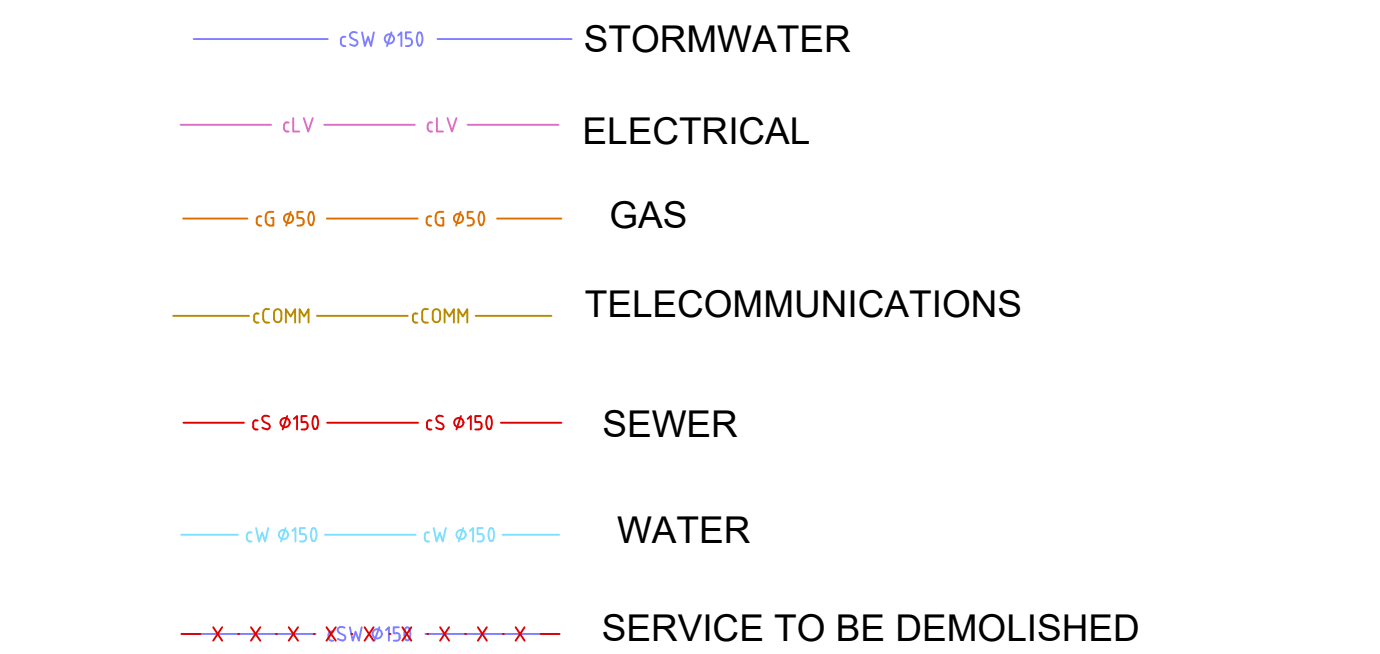
BUILDINGS



LANDSCAPE



EXISTING SERVICES



CLASSIFICATION OF EXISTING UTILITY INFORMATION

- A

-

SIGHTED, MUST BE LOCATED, THEN POTHOLED. UTILITY MUST BE PHYSICALLY SIGHTED AND MEASURED.
- B

-

ELECTRONICALLY DETECTED AND LOCATED ON SITE USING VARIOUS TRACING METHODS.
- C

-

ALIGNED FROM SURFACE FEATURES AND DIGITISED DATA.
- D

-

DIGITISED DATA (DIAL BEFORE YOU DIG).

NOTE

- BELOW GROUND SERVICES CAN BE REPRESENTED AS GREY FOR EXISTING AND BLACK FOR PROPOSED DEPENDING ON THE PLAN.
- EXISTING SERVICES PITS, STRUCTURES AND COLUMNS ARE ILLUSTRATED AS PER THE ORIGINAL SURVEY.

										<div><div><div></div><div>NSW GOVERNMENT</div></div><div>School Infrastructure NSW</div></div>					<div><div>Engineer:</div><div><div>TTW</div><div>www.ttwingineers.com</div></div></div>					<div><div>Project:</div><div>NEW HIGH SCHOOL FOR JORDAN SPRINGS</div></div>					<div><div>Drawing Title:</div><div>GENERAL NOTES AND LEGEND SHEET 1</div></div>					<div><div>Scale at A1</div><div>Drawn</div><div>Designed</div><div>Approved</div></div>				
															<div><div>ES</div><div>JL</div><div>CR</div></div>																			
															<div><div>Project No</div><div>Originator</div><div>Type</div><div>Role</div><div>Sheet No.</div><div>Rev</div></div>																			
															<div><div>JSHS-TTW-01-00-DR-C-00003-2</div></div>																			
															<div><div>05.12.2024</div><div>1:19 PM</div></div>																			
Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date															
2	SCHEMATIC DESIGN FOR REF	JL	ES	06.12.2024																														
1	FINAL DRAFT ISSUE FOR REF	JL	ES	21.11.2024																														

Z:\jobs\24\241459\civil\sheets\10\241459-TTW-10-DR-C-00003.dwg

NOT FOR CONSTRUCTION

This drawing is copyright and is the property of TTW and must not be used without authorisation. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES AND LEGENDS

NOTE
EXISTING SITE SERVICES TO BE REMOVED INCLUDING BUT LIMITED TO:

- GAS
- ELECTRICAL (HV AND LV)
- TELECOMMUNICATIONS
- WATER
- SEWER
- STORMWATER
- STREET LIGHTING

ALL MATERIALS UNSUITABLE FOR REUSE AS FILL SHALL BE DISPOSED OFF SITE

EXISTING SEWER AND STORMWATER TO BE CAPPED AT SITE BOUNDARY AND REMOVED

EXISTING KIOSK SUBSTATION TO BE REMOVED/ RELOCATED. REFER L3 DESIGN.

EXISTING ROAD TO BE DEMOLISHED. ALL SERVICES TO BE TERMINATED/ CAPPED AT SITE BOUNDARY AND REMOVED IN ACCORDANCE WITH AUTHORITY REQUIREMENTS

EXISTING BASIN TO BE BACKFILLED REFER DRAWING 03101 - EARTHWORKS CUT AND FILL VOLUMES PLAN

EXISTING ROAD TO BE DEMOLISHED. ALL SERVICES TO BE TERMINATED/ CAPPED AT SITE BOUNDARY AND REMOVED IN ACCORDANCE WITH AUTHORITY REQUIREMENTS

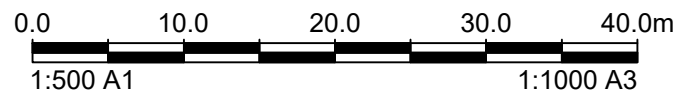
EXISTING SEWER TO BE CAPPED AT SITE BOUNDARY AND REMOVED

EXISTING ROAD TO BE DEMOLISHED. ALL SERVICES TO BE TERMINATED/ CAPPED AT SITE BOUNDARY AND REMOVED IN ACCORDANCE WITH AUTHORITY REQUIREMENTS

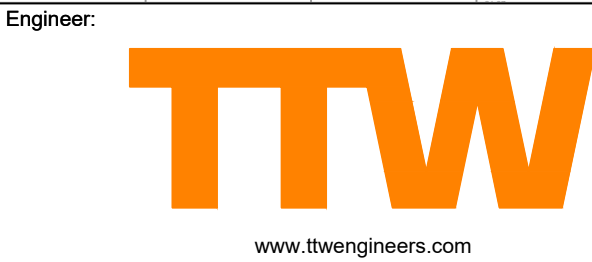
EXISTING WATER TO BE REMOVED. WATER SUPPLY TO BE TERMINATED AND CAPPED AT BOUNDARY. REFER HYDRAULIC CONSULTANTS DOCUMENTATION (TYPICAL)

EXISTING TREE TO BE REMOVED

EXISTING KIOSK SUBSTATION TO BE REMOVED/ RELOCATED. REFER L3 DESIGN.



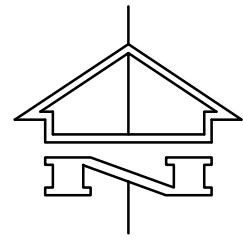
Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
2	SCHEMATIC DESIGN FOR REF	JL	ES	06.12.2024										
1	FINAL DRAFT ISSUE FOR REF	JL	ES	21.11.2024										



Project:
NEW HIGH SCHOOL FOR
JORDAN SPRINGS

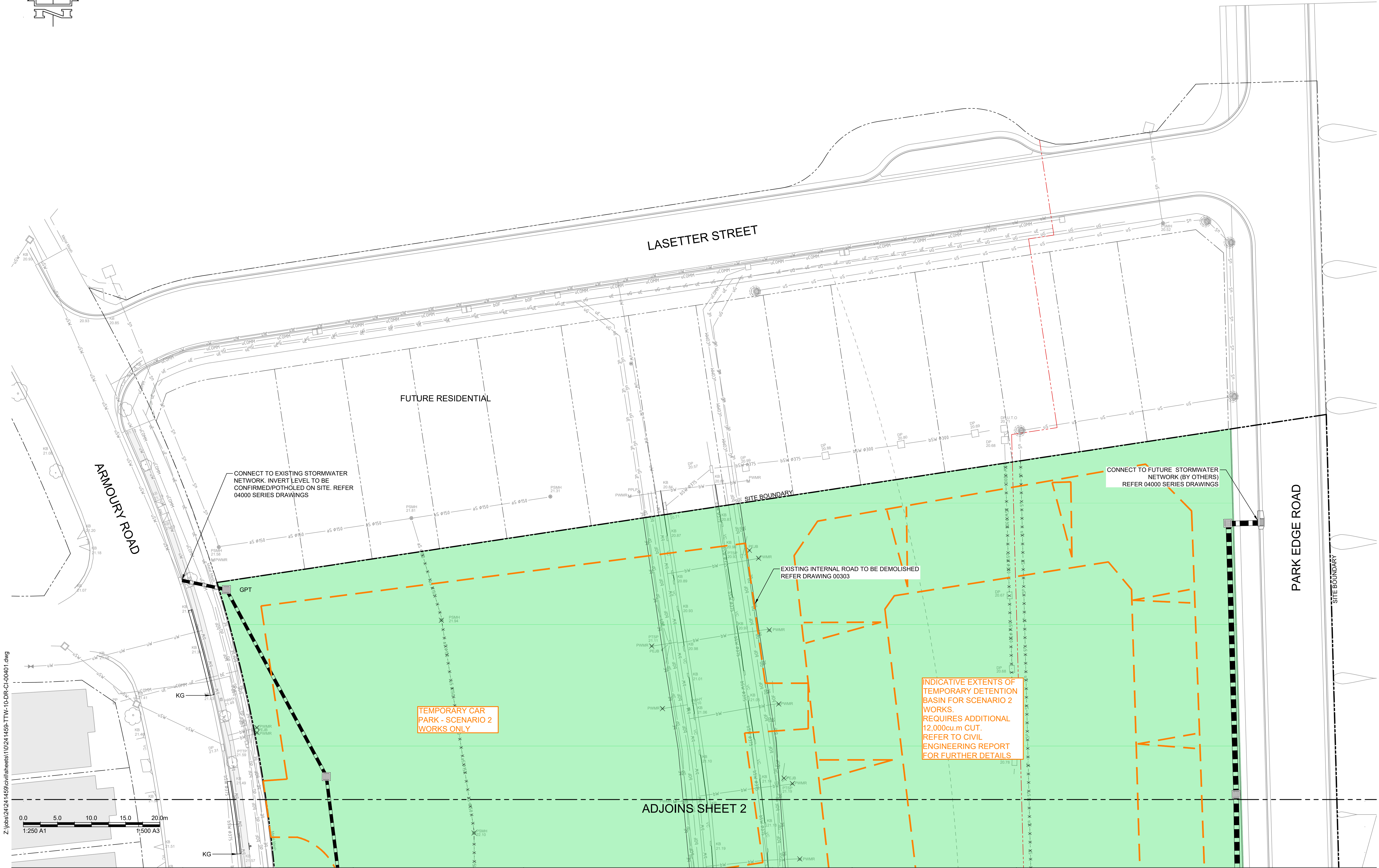
Drawing Title:
GENERAL
DEMOLITION PLAN

Scale at A1	Drawn	Designed	Approved		
500	ES	JL	CR		
Project No	Originator	Type	Role	Sheet No.	Rev
JSHS-TTW-01-00-DR-C-00303-2					
05.12.2024 1:20 PM					



NOT FOR CONSTRUCTION

This drawing is copyright and is the property of TTW and must not be used without authorisation. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES AND LEGENDS




Z:\jobs\24\241459\civil\sheets\10\241459-TTW-10-DR-C-00401.dwg

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
3	SCHEMATIC DESIGN FOR REF	JL	ES	17.12.2024										
2	SCHEMATIC DESIGN FOR REF	JL	ES	06.12.2024										
1	FINAL DRAFT ISSUE FOR REF	JL	ES	21.11.2024										

Client:

 School Infrastructure NSW

Engineer:

 **TTW**
www.ttweengineers.com

Project:

NEW HIGH SCHOOL FOR JORDAN SPRINGS

Drawing Title:

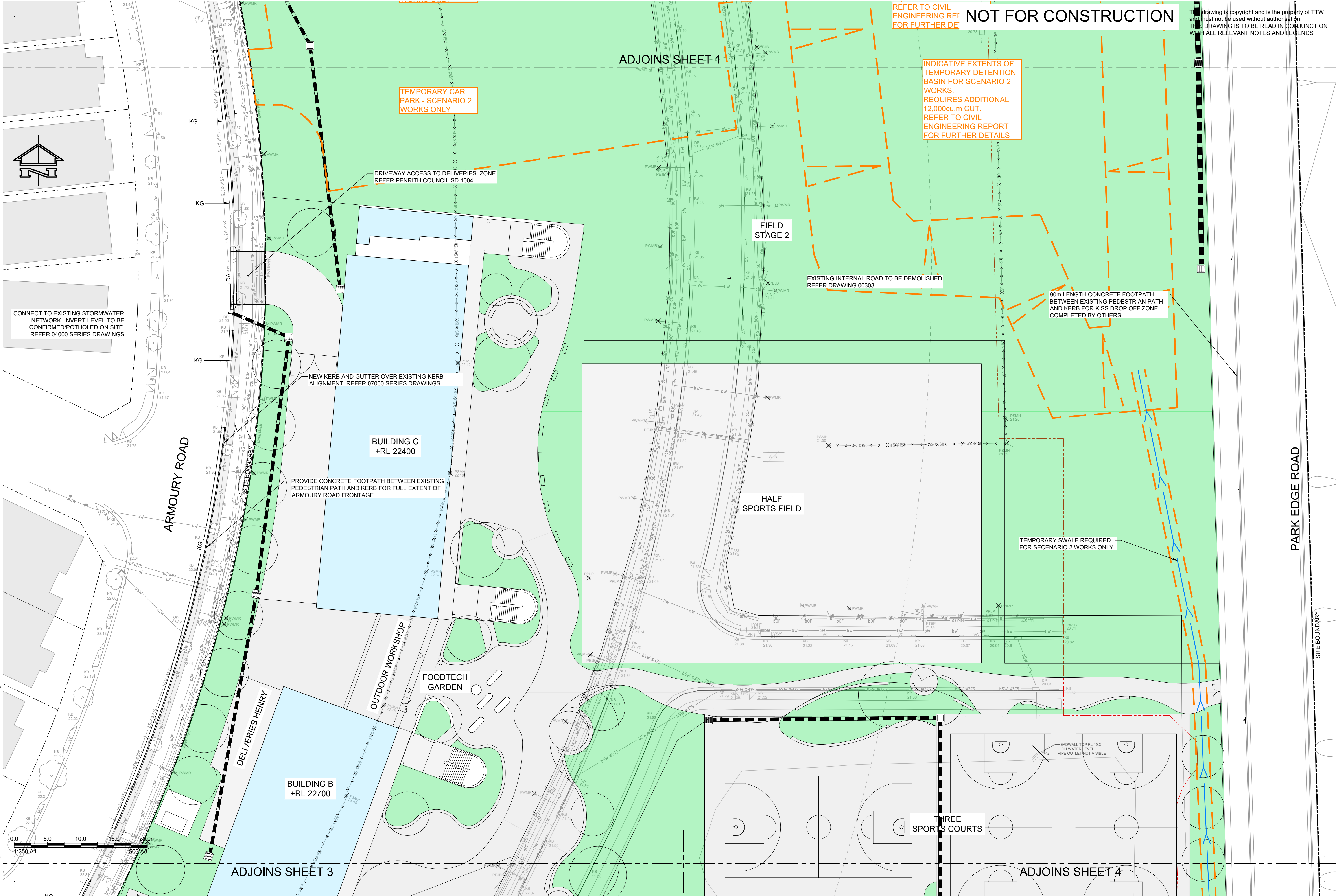
GENERAL ARRANGEMENT PLAN SHEET 1

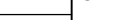

Scale at A1: 250

Drawn: ES, Designed: JL, Approved: CR

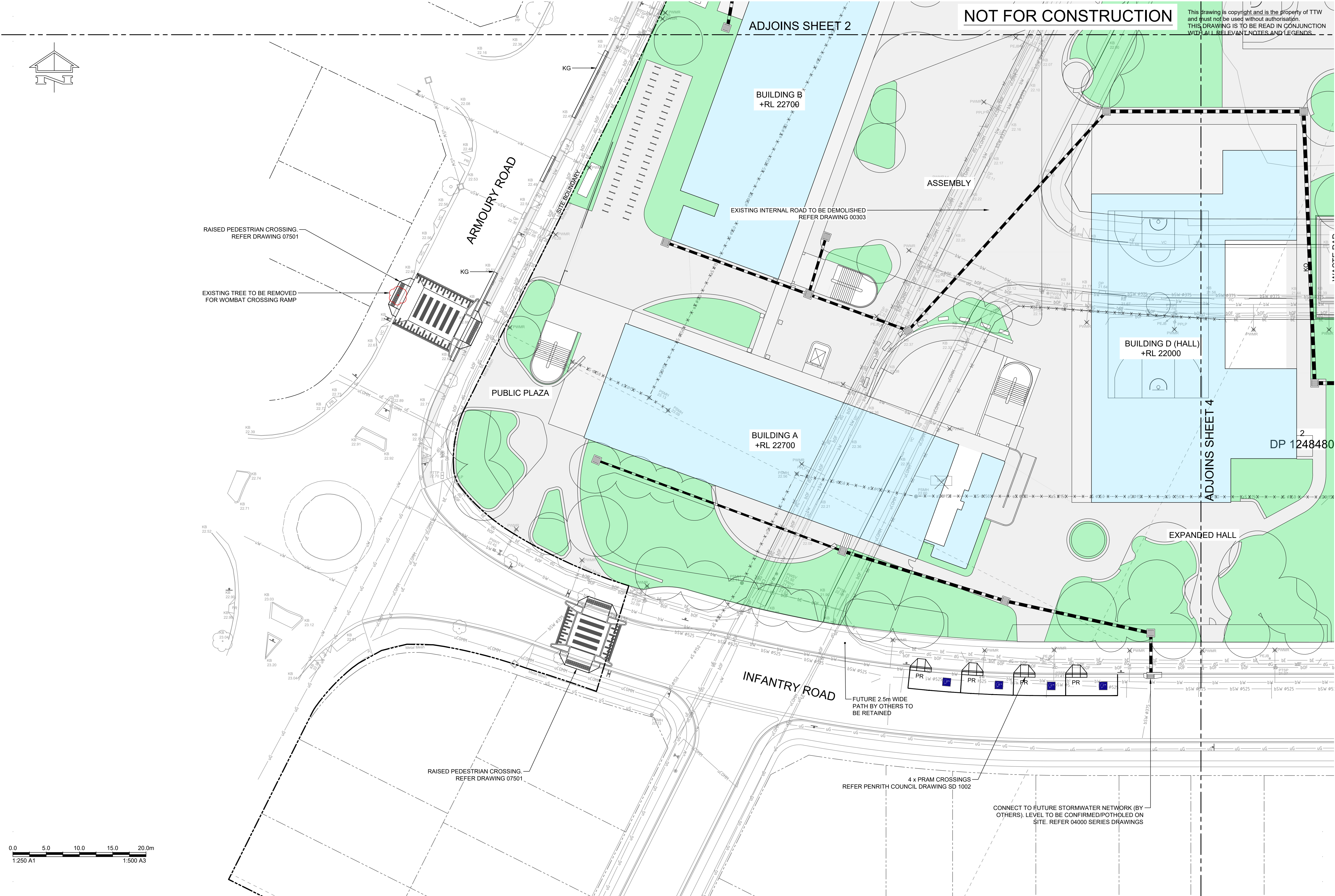
Project No: JSHS-TTW-01-00-DR-C-00401-3

17.12.2024 3:55 PM



										<div><div><div>School Infrastructure NSW</div></div><div><div>Engineer:</div><div><div>www.ttweengineers.com</div></div></div><div><div>Project:</div><div>NEW HIGH SCHOOL FOR JORDAN SPRINGS</div></div><div><div>Drawing Title:</div><div>GENERAL ARRANGEMENT PLAN SHEET 2</div></div><div><div>Scale at A1</div><div>250</div></div><div><div>Drawn</div><div>ES</div></div><div><div>Designed</div><div>JL</div></div><div><div>Approved</div><div>CR</div></div><div><div>Project No</div><div>Originator</div><div>Type</div><div>Role</div><div>Sheet No.</div><div>Rev</div></div><div><div>JSHS-TTW-01-00-DR-C-00402-3</div><div>17.12.2024 3:55 PM</div></div></div>									

Z:\jobs\24\241459\civil\sheets\10\241459-TTW-10-DR-C-00403.dwg




Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
3	SCHEMATIC DESIGN FOR REF	JL	ES	17.12.2024										
2	SCHEMATIC DESIGN FOR REF	JL	ES	06.12.2024										
1	FINAL DRAFT ISSUE FOR REF	JL	ES	21.11.2024										

Client:

 School Infrastructure NSW

Engineer:

 **TTW**
www.ttweengineers.com

Project:

NEW HIGH SCHOOL FOR JORDAN SPRINGS

Drawing Title:

GENERAL ARRANGEMENT PLAN SHEET 3

Scale at A1: 250

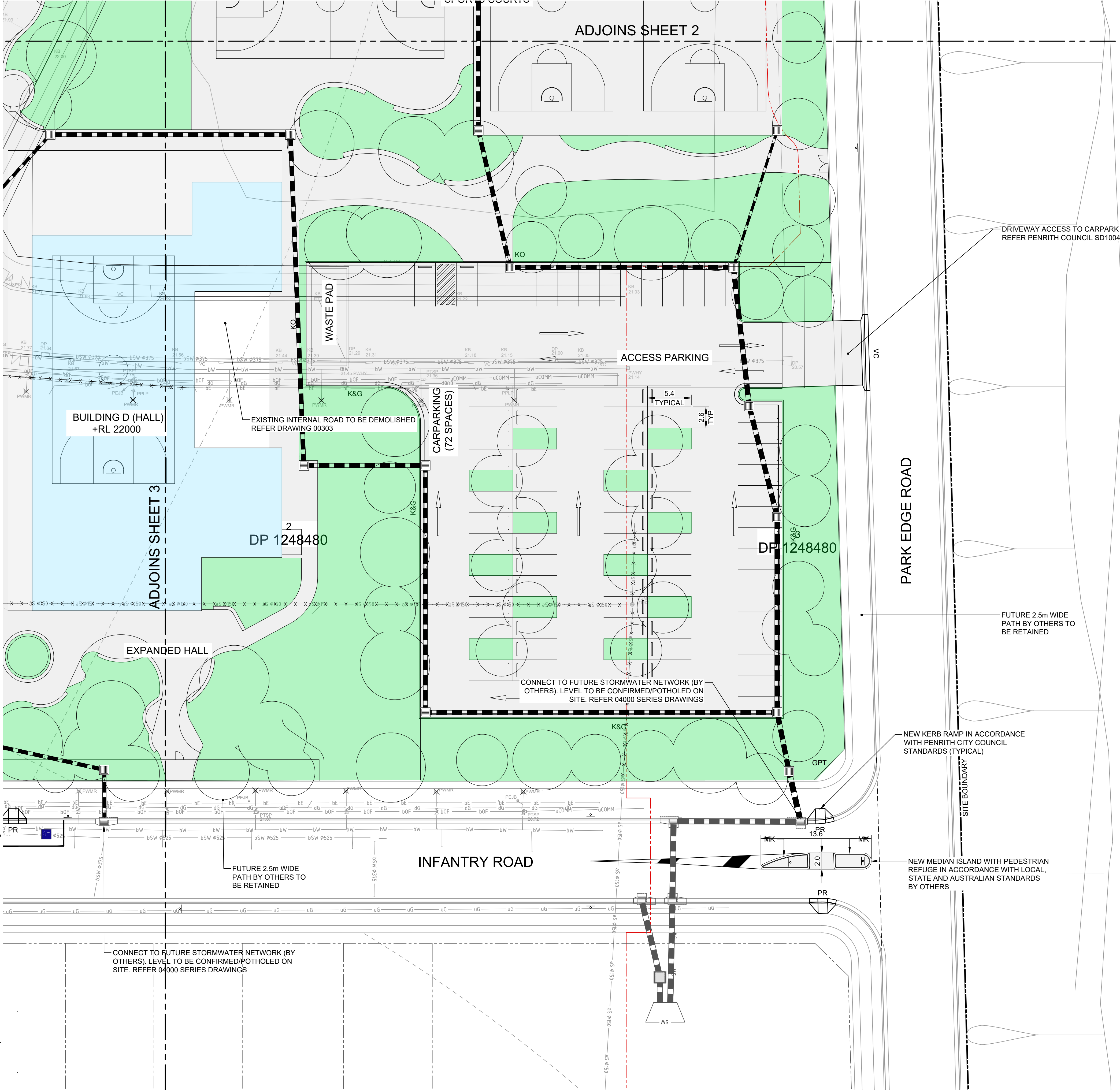
Drawn: ES, Designed: JL, Approved: CR

Project No: JSHS-TTW-01-00-DR-C-00403-3

17.12.2024 3:56 PM

NOT FOR CONSTRUCTION


This drawing is copyright and is the property of TTW and must not be used without authorisation. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES AND LEGENDS.



Z:\jobs\24\241459\civil\sheet\10\241459-TTW-10-DR-C-00404.dwg

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
3	SCHEMATIC DESIGN FOR REF	JL	ES	17.12.2024										
2	SCHEMATIC DESIGN FOR REF	JL	ES	06.12.2024										
1	FINAL DRAFT ISSUE FOR REF	JL	ES	21.11.2024										

Client:
 School Infrastructure NSW

Engineer:

www.ttwengineers.com

Project:
NEW HIGH SCHOOL FOR
JORDAN SPRINGS

Drawing Title:
GENERAL
ARRANGEMENT PLAN
SHEET 4

Scale at A1
250
Project No
JSHS-TTW-01-00-DR-C-00404-3
17.12.2024 3:56 PM
Drawn
ES
Originator
Designed
JL
Type
Approved
CR
Role
Sheet No.
Rev

ANY ACCUMULATED WATER CONTAMINATED WITH SEDIMENT, FROM A SEDIMENT BASIN OR EXCAVATION PIT, IS TO BE FLOCCULATED OR FILTERED IN ORDER TO LOWER THE SUSPENDED SOLID LOAD TO LESS THAN 50MG PER LITRE GYPSUM GAS OR OTHER APPROVED FLOCCULANT SHOULD BE APPLIED WITHIN 24 HOURS OF THE END OF THE STORM EVENT. THE GYPSUM MUST BE SPREAD EVENLY OVER THE ENTIRE WATER SURFACE. PUMPING IS NOT TO OCCUR FOR AT LEAST 36 HOURS AFTER THE FLOCCULANT IS APPLIED. CLEAR WATER IS TO BE DISCHARGED TO THE WATER TABLE VIA A HALF HALE BALD SEDIMENT FILTER IN A WAY THAT DOES NOT PICK UP SEDIMENT THAT HAS DROPPED TO THE BOTTOM.

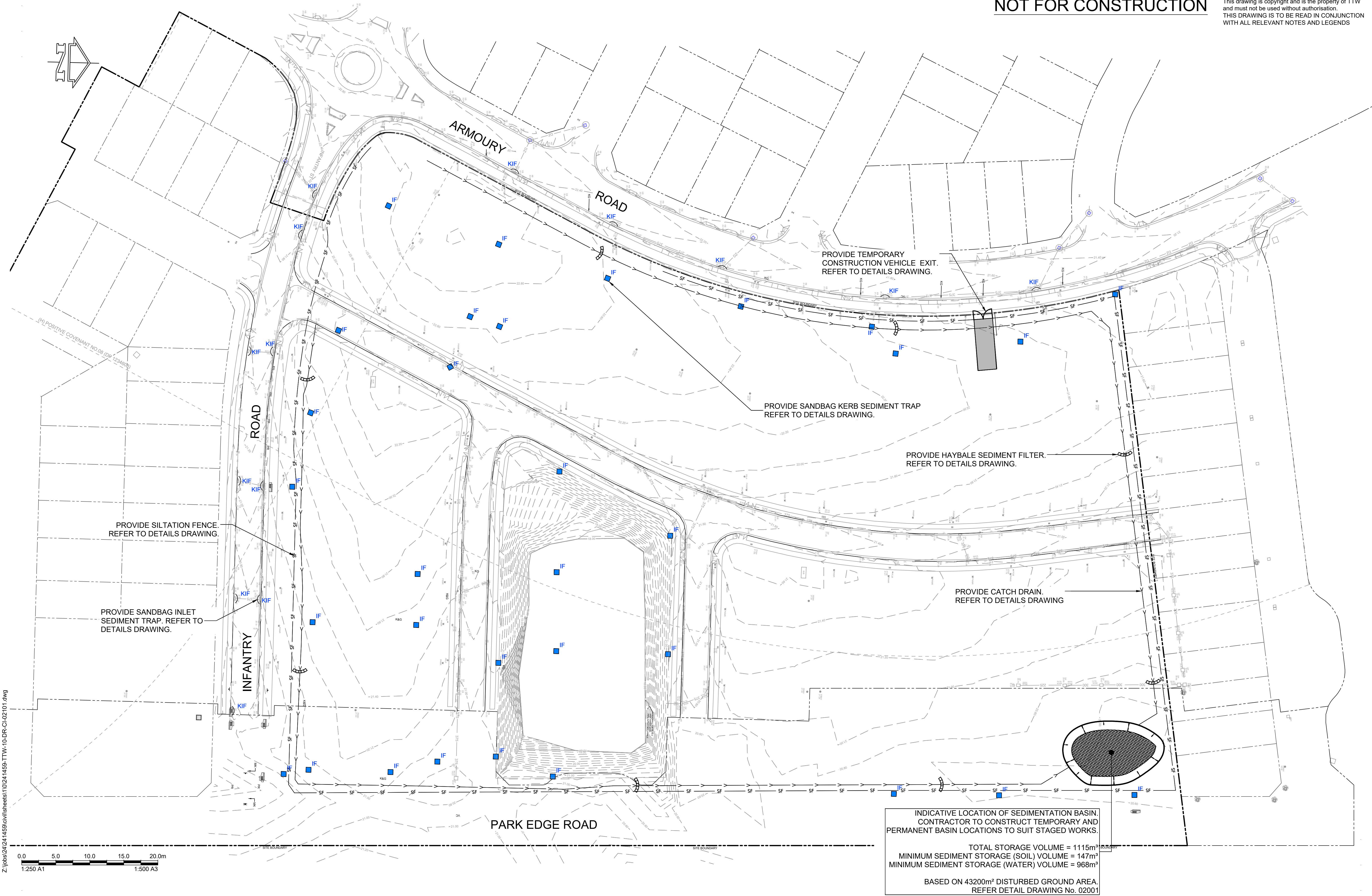
NOTE: GYPSUM IS A HYDRATED FORM OF CALCIUM SULPHATE AND IS AVAILABLE AT MANY SWIMMING POOL SHOPS AND HARDWARE STORES.



NOTE
ENDS OF SILTATION FENCE TO RETURNED
UP SLOPE TO PREVENT RUNOFF

SCALE 1:20

[illegible]



Z:\jobs\24\241459\civil\sheets\10\241459-TTW-10-DR-C-02101.dwg

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
2	SCHEMATIC DESIGN FOR REF	JL	ES	06.12.2024										
1	FINAL DRAFT ISSUE FOR REF	JL	ES	21.11.2024										

Client:

 **School Infrastructure NSW**

Engineer:

 **TTW**
www.ttwengineers.com

Project:

NEW HIGH SCHOOL FOR JORDAN SPRINGS

Drawing Title:

EROSION AND SEDIMENT CONTROL PLAN

Scale at A1	Drawn	Designed	Approved		
500	ES	JL	CR		
Project No	Originator	Type	Role	Sheet No.	Rev
JSHS-TTW-01-00-DR-C-02101-2					
05.12.2024 1:25 PM					

Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
CUT AND FILL EXCLUDING BASIN	1.000	1.000	25799.40sq.m	1844.83 Cu. M.	3523.01 Cu. M.	1678.19 Cu. M.<Fill>
CUT AND FILL OF BASIN	1.000	1.000	4179.26sq.m	3.24 Cu. M.	12119.03 Cu. M.	12115.79 Cu. M.<Fill>
Totals			29978.65sq.m	1848.07 Cu. M.	15642.04 Cu. M.	13793.97 Cu. M.<Fill>

NOTE: CUT FILL ESTIMATE EXCLUDES TEMPORARY WORKS FOR SCENARIO 2.

BULK EARTHWORKS NOTES

1. All bulk earthworks setout from grid lines U.N.O.

2. All batters at a slope of 2 (H) : 1 (V) U.N.O.

3. Excavated material may be used as structural fill provided,

(i) it complies with the specification requirements for fill material,

(ii) the placement moisture content complies with the Geotechnical Consultants requirements, and allows filling to be placed and proofrolled in accordance with the specification. Where necessary the Contractor must moisture condition the excavated material to meet these requirements.

4. Compact fill areas and subgrade to not less than:

Location	Standard dry density (AS 1289 5.1.1.)	Moisture (OMC)
Under building slabs on ground:	98%	±2%
Under roads and carparks:	98%	±2%
Landscaped areas:	95%	±2%

5. Before placing fill, proof roll exposed subgrade with a 12 tonne minimum roller to test subgrade and then remove soft spots(areas with more than 3mm movement under roller). Soft spots to be replaced with granular fill U.N.O.

6. Contractor shall place safety barriers around excavations in accordance with
- relevant safety regulations.

7. For interpretation of bulk earthworks foot print line shown on the bulk earthworks drawings refer to the bulk earthworks construction legend.

8. Bulk earthwork drawings are not to be used for detailed excavation.

9. Refer to Geotechnical Report

10. Detailed earthworks such as piling, pile caps, ground beams, lift pits, service trenching & landscape mounding etc is excluded.

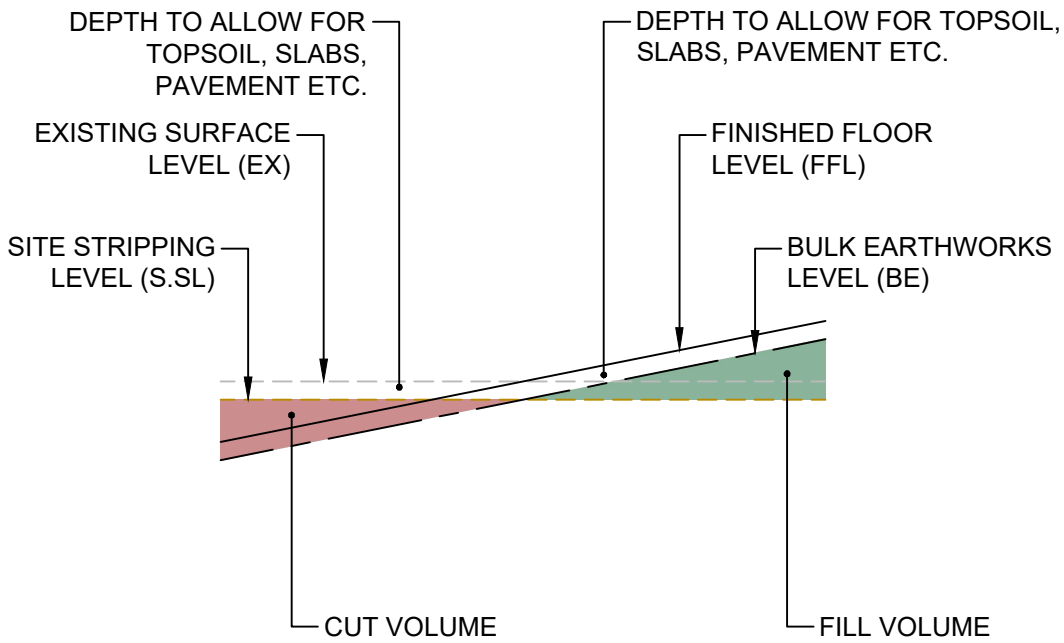
11. The following allowances have been adopted in the bulk earthworks quantity calculations:
Site stripping level = 150mm below existing surface level, and site strip volume is 4497m³.
Bulk earthworks level
a. 500mm below finished floor level (buildings)
b. 365mm below finished pavement level (car park)
c. 300mm below final surface (turfed landscape and pedestrian pavement)

12. Bulk earthworks does not consider detailed excavation including excavation for temporary works, footings, beams, services trenching and slab falls. No allowance for bulking factors made

13. Contractor to locate all existing services prior to commencement of work

14. Contractor to make their own assessment of cut and fill volumes

15. All bulk earthworks in accordance with AS3798-2007 Guidelines on earthworks for commercial and residential development.



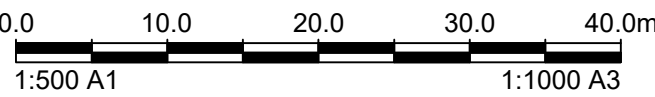
EARTHWORKS TYPICAL SECTION

LEGEND

-----BE308.80----- BULK EARTHWORKS CONTOUR

LEVELS TABLE

No.	FROM LEVEL (m)	TO LEVEL (m)	COLOUR
1	-1.00	-0.50	
2	-0.50	0.00	
3	0.00	1.00	
4	1.00	2.00	
5	2.00	3.00	
6	3.00	4.00	
7	4.00	5.00	
8	5.00	6.00	



Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date
2	SCHEMATIC DESIGN FOR REF	JL	ES 06.12.2024								
1	FINAL DRAFT ISSUE FOR REF	JL	ES 21.11.2024								

Client:

School Infrastructure NSW

Engineer:

www.ttweengineers.com

Project: NEW HIGH SCHOOL FOR JORDAN SPRINGS

Drawing Title: EARTHWORKS CUT AND FILL VOLUMES PLAN

Scale at A1: 500

Drawn: ES

Designed: JL

Approved: CR

Project No: JSHS-TTW-01-00-DR-C-03101-2

06.12.2024 4:03 PM

STORMWATER DRAINAGE

1. STORMWATER DESIGN CRITERIA

(A) AVERAGE EXCEEDANCE PROBABILITY: -

- 1% AEP FOR ROOF DRAINAGE TO FIRST EXTERNAL PIT
- 5% AEP FOR PAVED AND LANDSCAPED AREAS

(B) RAINFALL INTENSITIES: -

- TIME OF CONCENTRATION: 5 MINUTES
- 1% AEP = 238mm/hr
- 5% AEP = 178mm/hr

(C) RAINFALL LOSSES: -

- IMPERVIOUS AREAS: IL = 1.5mm CL = 0mm/hr
- PERVIOUS AREAS: IL = 28mm CL = 1.2mm/hr

- PIPES 300 DIA AND LARGER TO BE REINFORCED CONCRETE CLASS "4" APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS U.N.O.
- PIPES UP TO 300 DIA MAY BE SEWER GRADE UPVC WITH SOLVENT WELDED JOINTS, SUBJECT TO APPROVAL BY THE ENGINEER
- EQUIVALENT STRENGTH VCP OR FRP PIPES MAY BE USED SUBJECT TO APPROVAL
- PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY ENGINEER.
- ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE MANUFACTURED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED UPVC SEWER GRADE PIPE IS TO BE USED.
- GRATES AND COVERS SHALL CONFORM WITH AS 3996-2006, AND AS 1428.1 FOR ACCESS REQUIREMENTS.
- PIPES ARE TO BE INSTALLED IN ACCORDANCE WITH AS 3725, ALL BEDDING TO BE TYPE H2 U.N.O.
- CARE IS TO BE TAKEN WITH INVERT LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- ALL STORMWATER PIPES TO BE 150 DIA AT 1.0% MIN FALL U.N.O.
- SUBSOIL DRAINS TO BE SLOTTED FLEXIBLE UPVC U.N.O.
- ADOPT INVERT LEVELS FOR PIPE INSTALLATION (GRADES SHOWN ARE ONLY NOMINAL).

STORMWATER PIPE INFORMATION

PIPE INFORMATION

USIL
Ø000
0.0m
0.0 m/s
%0.0
DSIL

UPSTREAM INVERT LEVEL
PIPE INTERNAL DIAMETER
PIPE MATERIAL AND CLASS
PIPE LENGTH
HYDRAULIC FLOW RATE
PIPE GRADE
DOWNSTREAM INVERT LEVEL

TIE INFORMATION

SW
L 10.0m
D 1.0m
Ø150

TIE LENGTH
TIE DEPTH
TIE DIAMETER

STORMWATER STRUCTURE IDENTIFICATION

SW1-2

LINE NUMBER 1 - STRUCTURE NUMBER 2

SUBSOIL DRAINAGE

- ALL SUBSOIL DRAINAGE WORKS ARE TO BE COMPLETED IN ACCORDANCE WITH THE RELEVANT STANDARDS AND SPECIFICATIONS OUTLINED IN THE PROJECT SPECIFICATION.
- WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
- SUBSOIL DRAINS TO BE Ø100 SLOTTED FLEXIBLE uPVC UNLESS NOTED OTHERWISE.
- ALL SUBSOIL DRAINS ARE TO BE AT MINIMUM 1% GRADE UNLESS NOTED OTHERWISE.
- ALL SUBSOIL DRAINS TO BE RODDED PRIOR TO THE PLACEMENT OF ASPHALT.
- ALL SUBSOIL DRAINS ARE DRAWN DIAGRAMMATICALLY FOR CLARITY. REFER TO TYPICAL DETAIL FOR SUBSOIL SETOUT.

STORMWATER LEGEND

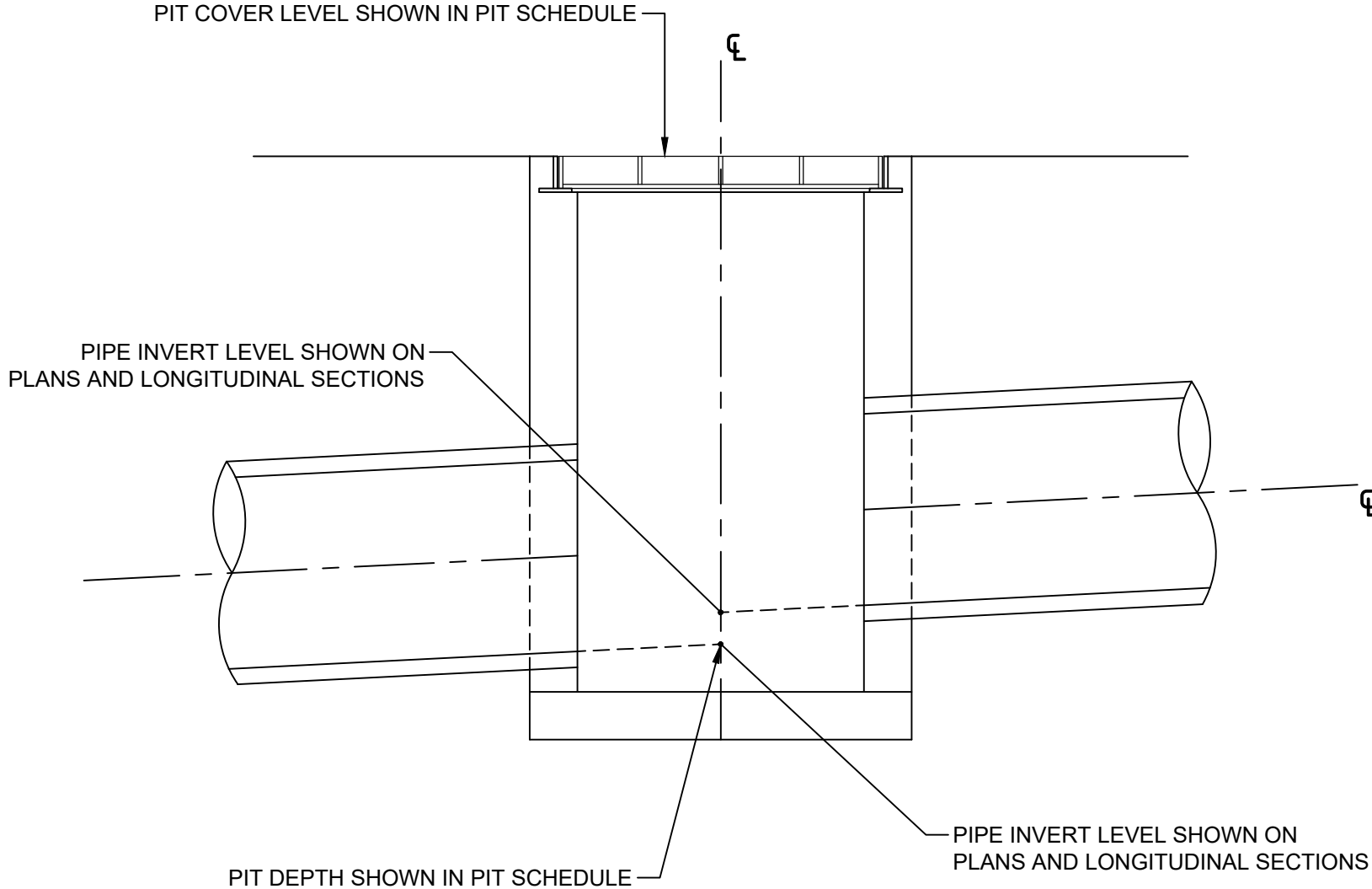
- STORMWATER PIPE
- DOWN PIPE
- RODDING POINT
- PLANTER OUTLET
- RAINWATER OUTLET
- GROSS POLLUTANT TRAP
- OVERLAND FLOW ARROW
- CONCRETE INCASED PIPE
- SWALE DRAIN

STORMWATER ANNOTATIONS

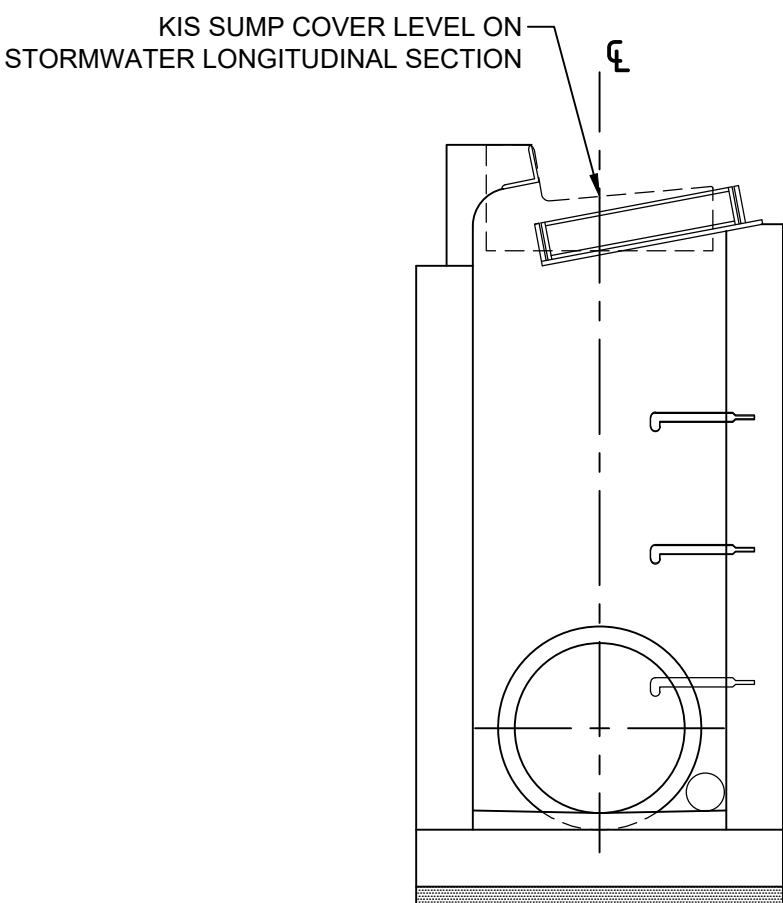
- IL PIPE INVERT LEVEL
- OL PIPE OBVERT LEVEL
- CL PIT COVER LEVEL
- WL WATER LEVEL

NOTE

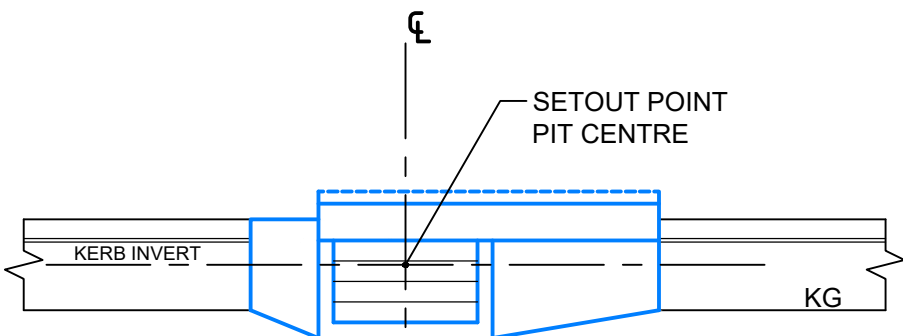
STORMWATER DRAINAGE NOTES AND LEGEND IS TO READ IN CONJUNCTION WITH GENERAL NOTES AND LEGEND. REFER DRAWING No. 00002



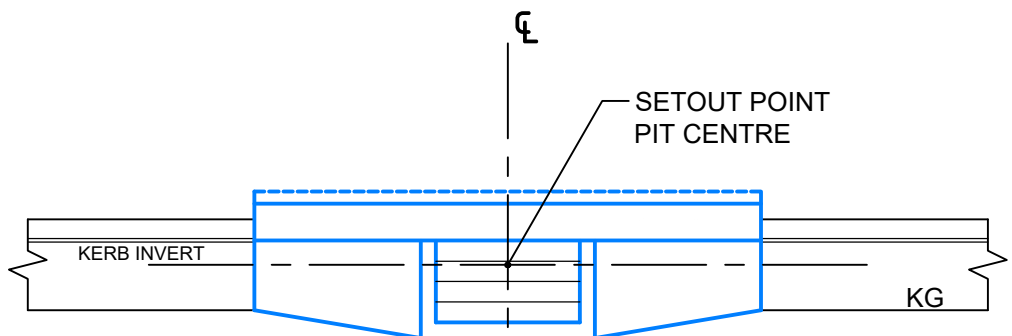
DESIGN INVERT LEVELS
AT STORMWATER STRUCTURES
SCALE 1:20



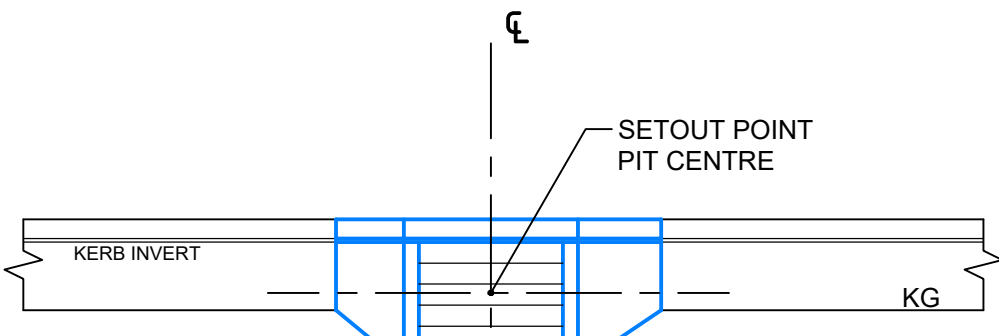
KERB INLET STRUCTURE (KIS)
COVER LEVEL FOR KIS IN ROAD
SCALE 1:20



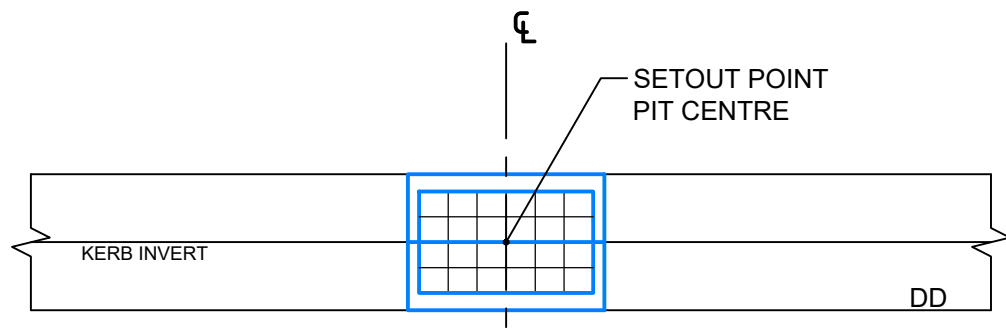
KERB INLET SUMP (KIS) ON GRADE
SCALE 1:50



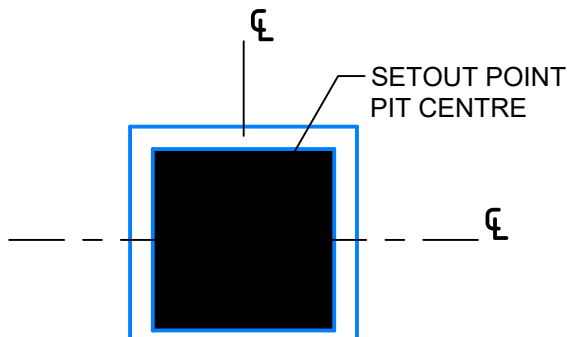
KERB INLET SUMP (KIS) IN SAG
SCALE 1:50



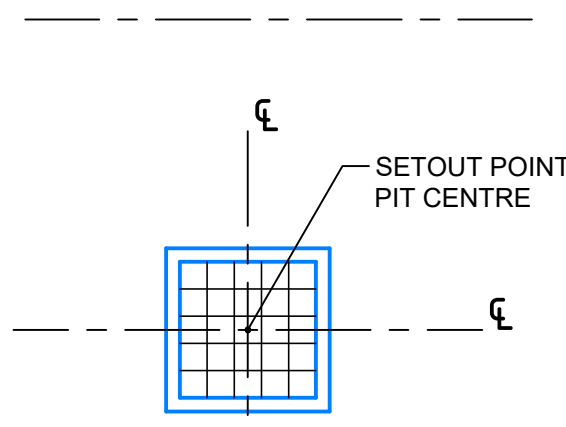
KERB GRATED INLET SUMP (KGI)
SCALE 1:50



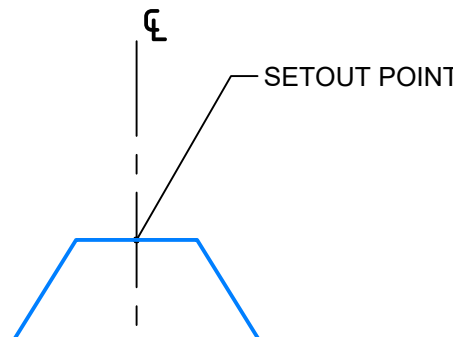
DISH DRAIN GRATED INLET SUMP (DDI)
SCALE 1:50



JUNCTION PIT
SCALE 1:50

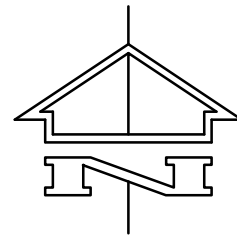


GRATED INLET SUMP
SCALE 1:50



HEADWALL
SCALE 1:50

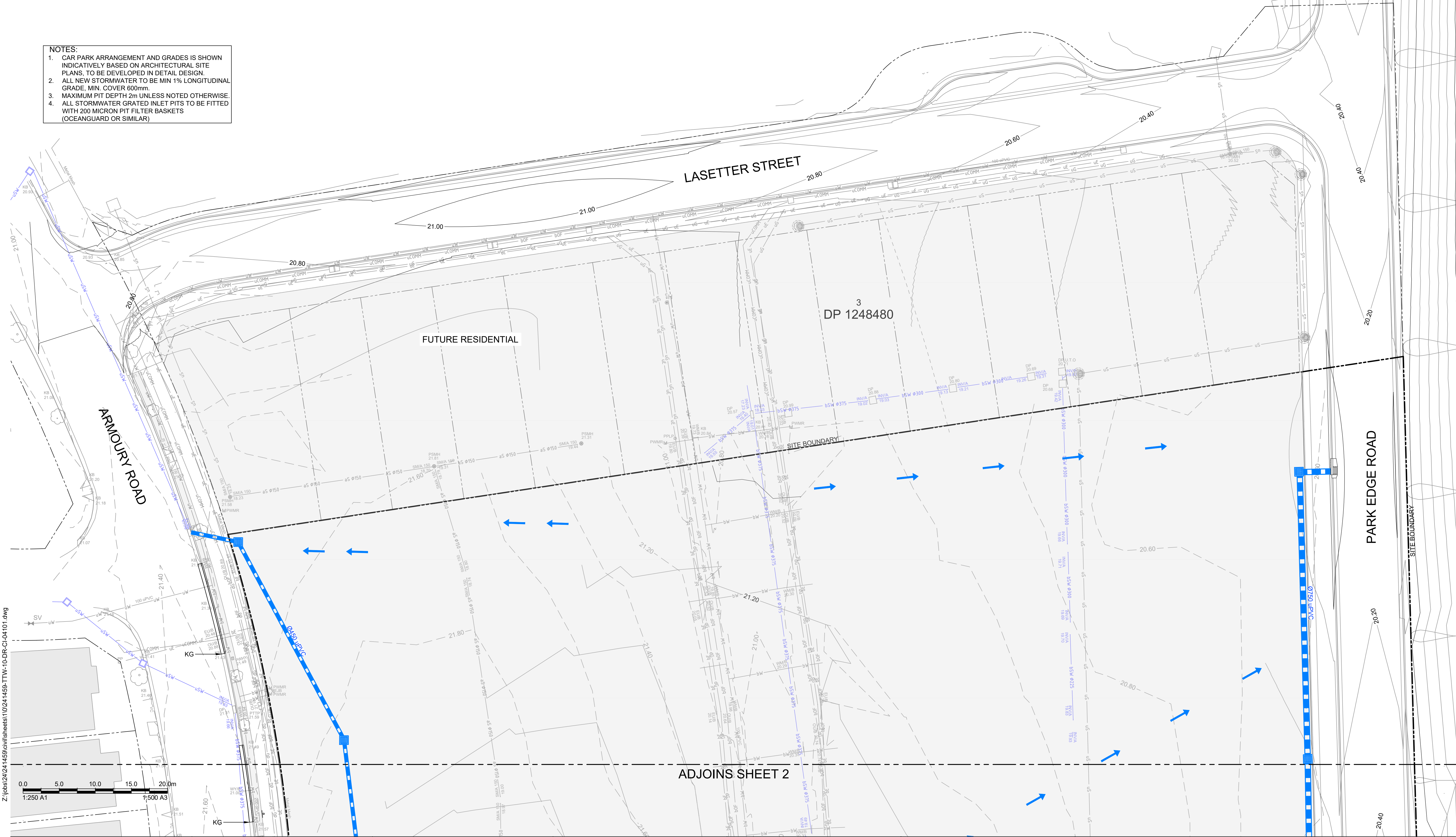
Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
2	SCHEMATIC DESIGN FOR REF	JL	ES	06.12.2024										
1	FINAL DRAFT ISSUE FOR REF	JL	ES	21.11.2024										



NOT FOR CONSTRUCTION

This drawing is copyright and is the property of TTW and must not be used without authorisation. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES AND LEGENDS

- NOTES:
- CAR PARK ARRANGEMENT AND GRADES IS SHOWN INDICATIVELY BASED ON ARCHITECTURAL SITE PLANS, TO BE DEVELOPED IN DETAIL DESIGN.
 - ALL NEW STORMWATER TO BE MIN 1% LONGITUDINAL GRADE, MIN. COVER 600mm.
 - MAXIMUM PIT DEPTH 2m UNLESS NOTED OTHERWISE.
 - ALL STORMWATER GRATED INLET PITS TO BE FITTED WITH 200 MICRON PIT FILTER BASKETS (OCEANGUARD OR SIMILAR)




Z:\jobs\24124\1459\civil\sheets\10\241459-TTW-10-DR-C-04101.dwg

0.0 5.0 10.0 15.0 20.0m
1:250 A1 1:500 A3

Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date
2	SCHEMATIC DESIGN FOR REF	JL	ES 06.12.2024								
1	FINAL DRAFT ISSUE FOR REF	JL	ES 21.11.2024								

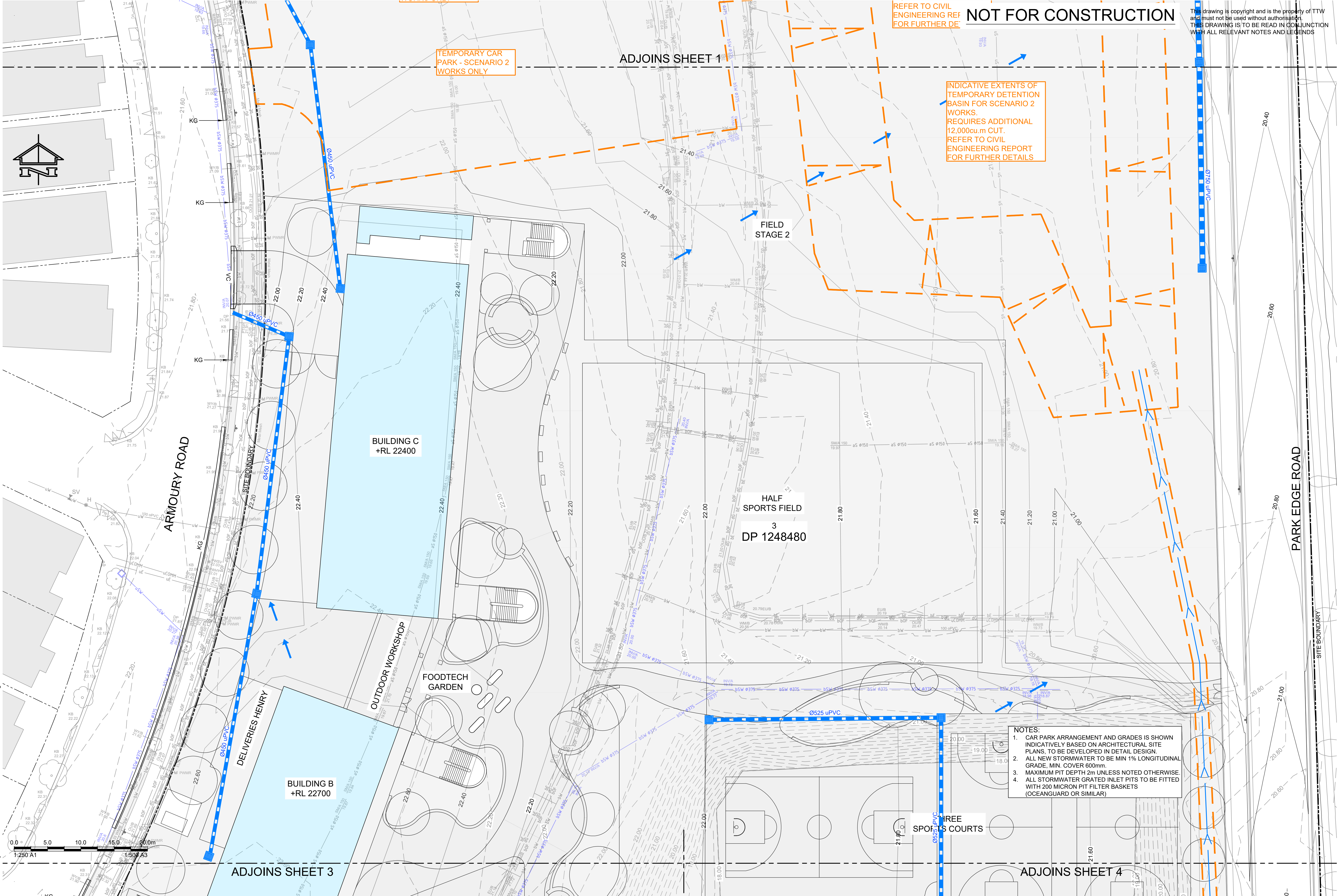
Client:
 School Infrastructure NSW



Engineer:

www.ttwengineers.com

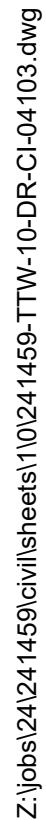
Project:
NEW HIGH SCHOOL FOR
JORDAN SPRINGS

Drawing Title:
STORMWATER
AND SUBSOIL DRAINAGE
PLAN SHEET 1

Scale at A1
250
Project No
06.12.2024 4:04 PM
Drawn
ES
Designed
JL
Role
Type
CR
Sheet No.
Rev

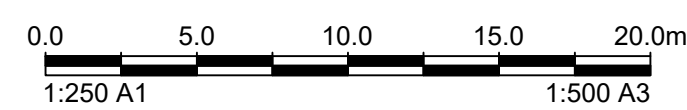
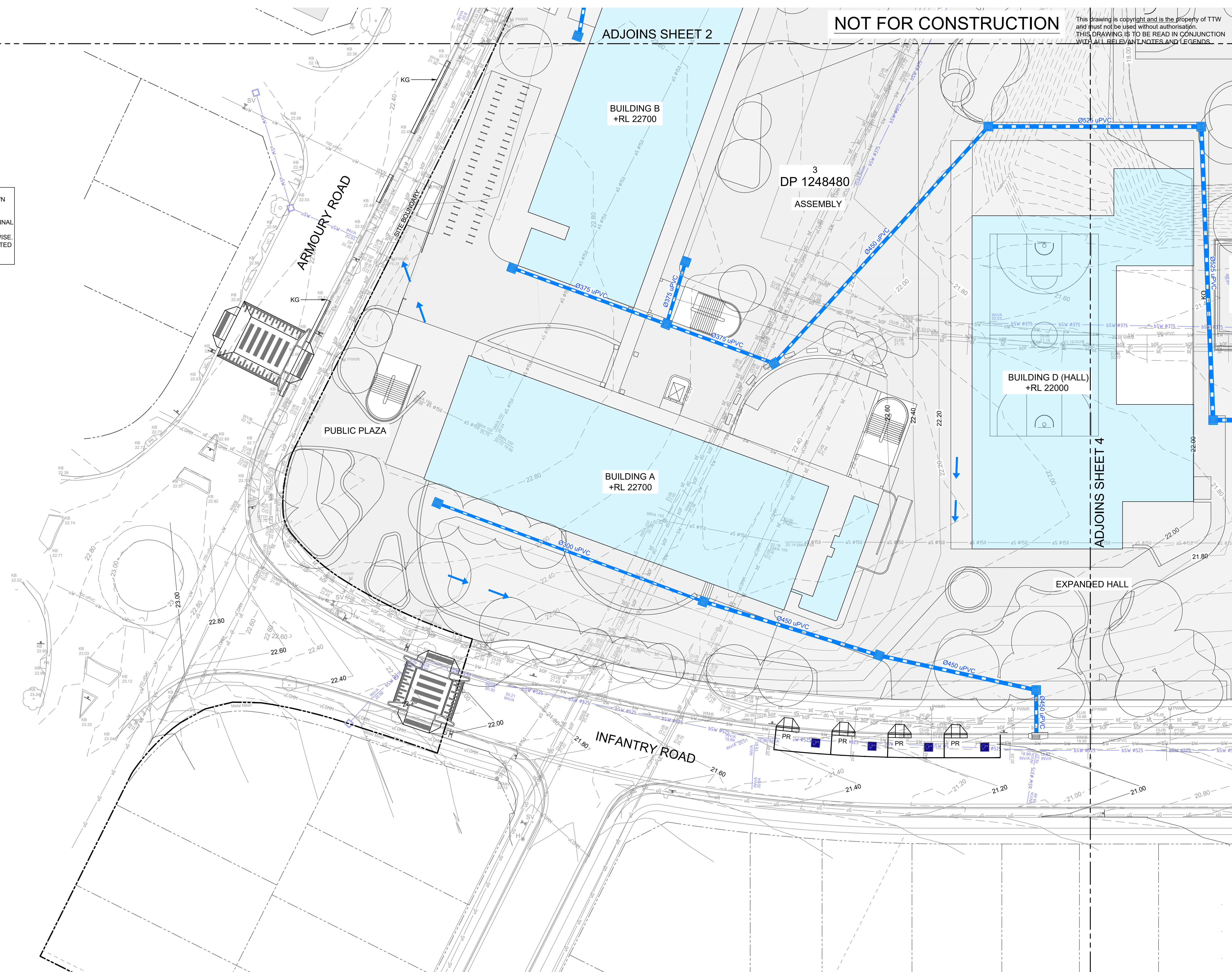




						<div><div></div><div>School Infrastructure NSW</div></div>			<div><div></div><div>www.ttweengineers.com</div></div>			<div><div>Project:</div><div>NEW HIGH SCHOOL FOR JORDAN SPRINGS</div></div>			<div><div>Drawing Title:</div><div>STORMWATER AND SUBSOIL DRAINAGE PLAN SHEET 2</div></div>			<div><div>Scale at A1</div><div>250</div></div>			<div><div>Drawn</div><div>ES</div></div>			<div><div>Designed</div><div>JL</div></div>			<div><div>Approved</div><div>CR</div></div>		
<div><div>2</div><div>SCHEMATIC DESIGN FOR REF</div><div>JL</div><div>ES</div><div>06.12.2024</div></div>												<div><div>Project No</div><div>250</div></div>			<div><div>Originator</div><div></div></div>			<div><div>Type</div><div></div></div>			<div><div>Role</div><div></div></div>			<div><div>Sheet No.</div><div></div></div>			<div><div>Rev</div><div></div></div>		
<div><div>1</div><div>FINAL DRAFT ISSUE FOR REF</div><div>JL</div><div>ES</div><div>21.11.2024</div></div>												<div><div>JSHS-TTW-01-00-DR-C-04102-2</div></div>																	
<div><div>Rev</div><div>Description</div><div>Eng</div><div>Draft</div><div>Date</div></div>			<div><div>Rev</div><div>Description</div><div>Eng</div><div>Draft</div><div>Date</div></div>			<div><div>Rev</div><div>Description</div><div>Eng</div><div>Draft</div><div>Date</div></div>									<div><div>06.12.2024</div></div>			<div><div>4:01 PM</div></div>											

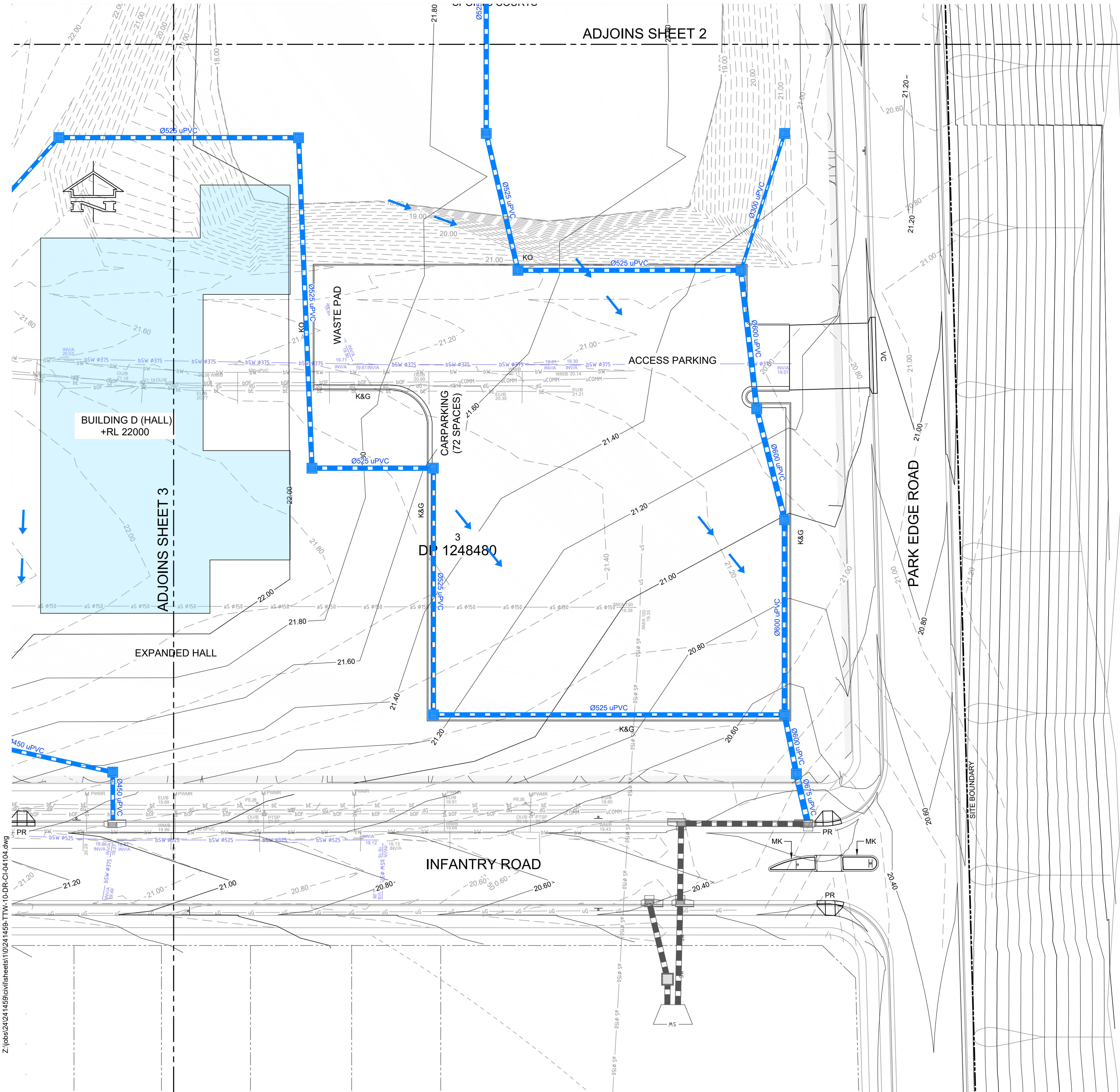


1. CAR PARK ARRANGEMENT AND GRADES IS SHOWN INDICATIVELY BASED ON ARCHITECTURAL SITE PLANS, TO BE DEVELOPED IN DETAIL DESIGN.
2. ALL NEW STORMWATER TO BE MIN 1% LONGITUDINAL GRADE, MIN. COVER 600mm.
3. MAXIMUM PIT DEPTH 2m UNLESS NOTED OTHERWISE.
4. ALL STORMWATER GRATED INLET PITS TO BE FITTED WITH 200 MICRON PIT FILTER BASKETS (OCEANGUARD OR SIMILAR)

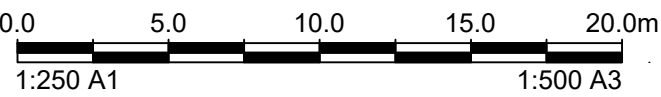
This drawing is copyright and is the property of TTW
and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION
WITH ALL RELEVANT NOTES AND LEGENDS.



				Client:				Engineer:				Project:				Drawing Title:				Scale at A1				Drawn		Designed		Approved			
								 School Infrastructure NSW				 www.ttwengineers.com				NEW HIGH SCHOOL FOR JORDAN SPRINGS				STORMWATER AND SUBSOIL DRAINAGE PLAN SHEET 3				250		ES		JL		CR	
2 SCHEMATIC DESIGN FOR REF JL ES 06.12.2024																				Project No		Originator		Type		Role		Sheet No.		Rev	
1 FINAL DRAFT ISSUE FOR REF JL ES 21.11.2024																															
Rev Description Eng Draft Date				Rev Description Eng Draft Date																											



- NOTES:
- CAR PARK ARRANGEMENT AND GRADES IS SHOWN INDICATIVELY BASED ON ARCHITECTURAL SITE PLANS, TO BE DEVELOPED IN DETAIL DESIGN.
 - ALL NEW STORMWATER TO BE MIN 1% LONGITUDINAL GRADE, MIN. COVER 600mm.
 - MAXIMUM PIT DEPTH 2m UNLESS NOTED OTHERWISE.
 - ALL STORMWATER GRATED INLET PITS TO BE FITTED WITH 200 MICRON PIT FILTER BASKETS (OCEANGUARD OR SIMILAR)



Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date
2	SCHEMATIC DESIGN FOR REF	JL	ES 06.12.2024												
1	FINAL DRAFT ISSUE FOR REF	JL	ES 21.11.2024												

Client:

Engineer:



Project:
NEW HIGH SCHOOL FOR
JORDAN SPRINGS

Drawing Title:
STORMWATER
AND SUBSOIL DRAINAGE
PLAN SHEET 4

Scale at A1	Drawn	Designed	Approved		
250	ES	JL	CR		
Project No	Originator	Type	Role	Sheet No.	Re
JSHS-TTW-01-00-DR-C-04104-2					
05.12.2024 1:31 PM					

CONCRETE

1. PLACE CONCRETE OF THE FOLLOWING CHARACTERISTIC COMPRESSIVE STRENGTH f_c IN ACCORDANCE WITH AS 1379.
- 2.

LOCATION	f_c MPa (28 DAYS)	SPECIFIED SLUMP	NOMINAL AGG. SIZE
KERBS	S20	80	20
RETAINING WALL FOOTINGS	S40	80	20

3. USE TYPE 'GP' CEMENT, UNLESS OTHERWISE SPECIFIED.
4. ALL CONCRETE SHALL BE SUBJECT TO PROJECT ASSESSMENT AND TESTING TO AS 1379.
5. CONSOLIDATE BY MECHANICAL VIBRATION. CURE ALL CONCRETE SURFACES AS DIRECTED IN THE SPECIFICATION.
6. FOR ALL FALLS IN SLAB, DRIP GROOVES, REGLETS, CHAMFERS ETC. REFER TO ARCHITECTS DRAWINGS AND SPECIFICATIONS.
7. UNLESS SHOWN ON THE DRAWINGS, THE LOCATION OF ALL CONSTRUCTION JOINTS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW.
8. NO HOLES OR CHASES SHALL BE MADE IN THE SLAB WITHOUT THE APPROVAL OF THE ENGINEER.
9. CONDUITS AND PIPES ARE TO BE FIXED TO THE UNDERSIDE OF THE TOP REINFORCEMENT LAYER.
10. SLURRY USED TO LUBRICATE CONCRETE PUMP LINES IS NOT TO BE USED IN ANY STRUCTURAL MEMBERS.
11. ALL SLABS CAST ON GROUND REQUIRE SAND BLINDING WITH A CONCRETE UNDERLAY

CONCRETE FINISHING

1. ALL EXPOSED CONCRETE PAVEMENTS ARE TO BE BROOMED FINISHED.
2. ALL EDGES OF THE CONCRETE PAVEMENT INCLUDING KEYED AND DOWELLED JOINTS ARE TO BE FINISHED WITH AN EDGING TOOL.
3. CONCRETE PAVEMENTS WITH GRADES GREATER THAN 10 % SHALL BE HEAVILY BROOMED FINISHED.
4. CARBORUNDUM TO BE ADDED TO ALL STAIR TREADS AND RAMPED CROSSINGS U.N.O.

FORMWORK

1. THE DESIGN, CERTIFICATION, CONSTRUCTION AND PERFORMANCE OF THE FORMWORK, FALSEWORK AND BACKPROPPING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PROPOSED METHOD OF INSTALLATION AND REMOVAL OF FORMWORK IS TO BE SUBMITTED TO THE SUPERINTENDENT FOR COMMENT PRIOR TO WORK BEING CARRIED OUT.

PAVEMENT LEGEND

<div>PT1</div>	PUBLIC DOMAIN FOOTPATH 125mm THICK CONCRETE SLAB (25MPa) WITH SL72 MESH (40 COVER) 150mm THICK COMPACTED FINE CRUSHED ROCK (DGB20)
<div>PT2</div>	INTERNAL PEDESTRIAN PAVING 120mm THICK CONCRETE SLAB (25MPa) WITH SL72 MESH (40 COVER) 150mm THICK COMPACTED FINE CRUSHED ROCK (DGB20) REFER TO LANDSCAPE ARCHITECTS DOCUMENTATION FOR COLOUR TREATMENT
<div>PT3</div>	CARPARK AND DELIVERY ZONE 40mm COMPACTED THICKNESS AC14 WEARING COURSE ON 150mm COMPACTED THICKNESS DGB20 CLASS 1 BASE TO 98% MMDD AT ±2% OMC ON 175mm COMPACTED THICKNESS DGS20 SUBBASE TO 98% MMDD AT ±2% OMC ON SUBGRADE MIN. CBR 4% COMPACTED TO 98% SMDD AT ±2% OMC
<div>PT4</div>	MULTI SPORTS COURTS TO LANDSCAPE ARCHITECT'S DOCUMENTATION
<div>PT5</div>	SPORTS FIELD TO LANDSCAPE ARCHITECT'S DOCUMENTATION
<div>PT6</div>	INTERNAL PEDESTRIAN PAVING 120mm THICK CONCRETE SLAB (25MPa) WITH SL72 MESH (40 COVER) 150mm THICK COMPACTED FINE CRUSHED ROCK (DGB20) REFER TO LANDSCAPE ARCHITECTS DOCUMENTATION FOR COLOUR TREATMENT
<div>PT7</div>	PUBLIC DOMAIN ROAD PAVEMENT REFER DRAWING 07501
<div>PT8</div>	PUBLIC DOMAIN REINFORCED CONCRETE DRIVEWAY 150 THICK S32 CONCRETE 150 THICK DGB20 COMPACTED TO 98% MMDD
<div>PT9</div>	CONCRETE BLEACHERS
<div></div>	LANDSCAPING REFER TO LANDSCAPE ARCHITECT'S DOCUMENTATION

NOTES:

1. PAVEMENT BUILDUPS ARE INDICATIVE AND TO BE DEVELOPED IN DETAILED DESIGN.
2. ADOPTED DESIGN PARAMETERS:
DESIGN TRAFFIC 5x10⁶ ESA, SUBGRADE 4% CBR MIN.

CONCRETE REINFORCEMENT

1. FIX REINFORCEMENT AS SHOWN ON DRAWINGS. THE TYPE AND GRADE IS INDICATED BY A SYMBOL AS SHOWN BELOW. ON THE DRAWINGS THIS IS FOLLOWED BY A NUMERAL WHICH INDICATES THE SIZE IN MILLIMETRES OF THE REINFORCEMENT.

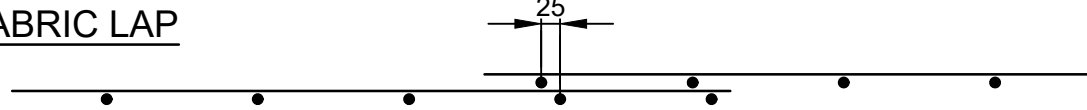
SYMBOL	TYPE	GRADE
N	HOT ROLLED RIBBED BAR	DN500N
R	PLAIN ROUND BAR	R250N
SL	SQUARE MESH	500L
RL	RECTANGULAR MESH	500L

2. PROVIDE BAR SUPPORTS OR SPACERS TO GIVE THE FOLLOWING CONCRETE COVER TO ALL REINFORCEMENT UNLESS OTHERWISE NOTED ON DRAWINGS.

LOCATION	COVER (MM)
FOOTINGS	50
WALLS	30

3. COVER TO REINFORCEMENT ENDS TO BE 50 mm U.N.O.
4. PROVIDE N12-450 SUPPORT BARS TO TOP REINFORCEMENT AS REQUIRED, LAP 500 U.N.O.
5. MAINTAIN COVER TO ALL PIPES, CONDUITS, REGLETS, DRIP GROOVES ETC
6. ALL COGS TO BE STANDARD COGS UNLESS NOTED OTHERWISE
7. FABRIC END AND SIDE LAPS ARE TO BE PLACED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS TO ACHIEVE A FULL TENSILE LAP. FABRIC SHALL BE LAID SO THAT THERE IS A MAXIMUM OF 3 LAYERS AT ANY LOCATION.

FABRIC LAP



8. LAPS IN REINFORCEMENT SHALL BE MADE ONLY WHERE SHOWN ON THE DRAWINGS UNLESS OTHERWISE APPROVED. LAP LENGTHS AS PER TABLE BELOW.

TENSION LAPS		
BAR SIZE	TOP BARS IN BANDS AND BEAMS	ALL OTHER BARS
N12	570	480
N16	800	700
N20	1150	950
N24	1500	1250
N28	1850	1500
N32	2250	1800
N36	2700	2100

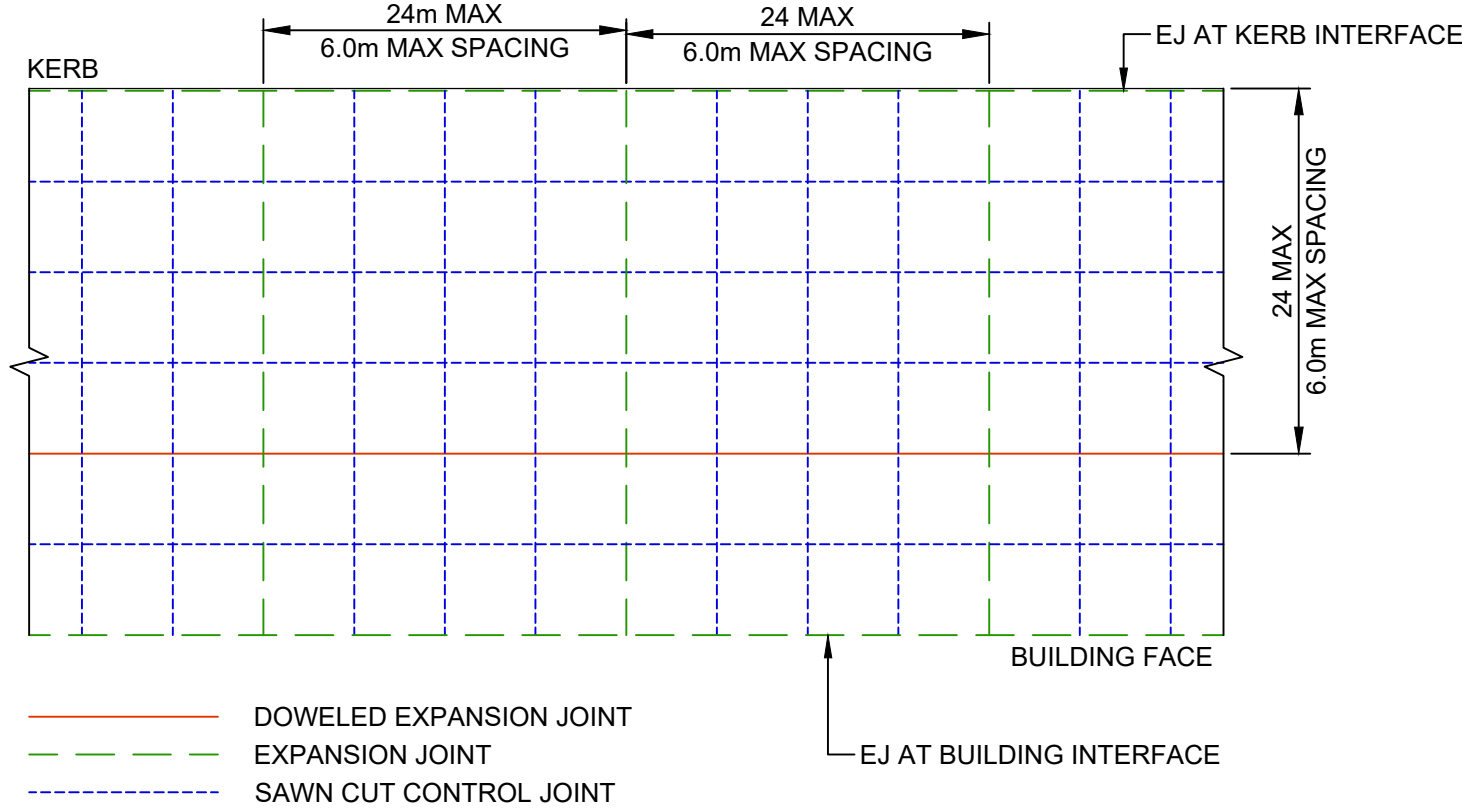
COMPRESSION LAPS	
BAR SIZE	
N16	640
N20	800
N24	960
N28	1120
N32	1280
N36	1440

ASSUMPTIONS:

1. TOP BARS IN BANDS AND BEAMS:
MORE THAN 300mm OF CONCRETE BELOW THE BAR.
2. MINIMUM COVER OF 25mm AND MINIMUM STIRRUP SIZE OF N12 GIVING Cd=37mm; THEREFORE MINIMUM CLEAR SPACING BETWEEN BARS = 2 X Cd = 74mm. MINIMUM COVER IS BASED ON THE NEW A2 EXPOSURE CLASSIFICATION FOR INTERIOR, NON-RESIDENTIAL WHICH REQUIRES 25mm COVER FOR 32Mpa CONCRETE.
3. f_c = 32Mpa
ALL OTHER BARS:
1. LESS THAN 300mm OF CONCRETE BELOW THE BAR.
2. MINIMUM COVER OF 25mm GIVING Cd = 25mm; THEREFORE MINIMUM CLEAR SPACING BETWEEN BARS = 2 X Cd = 50mm.
3. f_c = 32Mpa.
COLUMNS:
1. COVER TO COLUMNS = 40mm (30+10)k7 = 1.25
2. COVERS FOR FIRE RATING ARE TO BE DESIGNED BY THE ENGINEER.

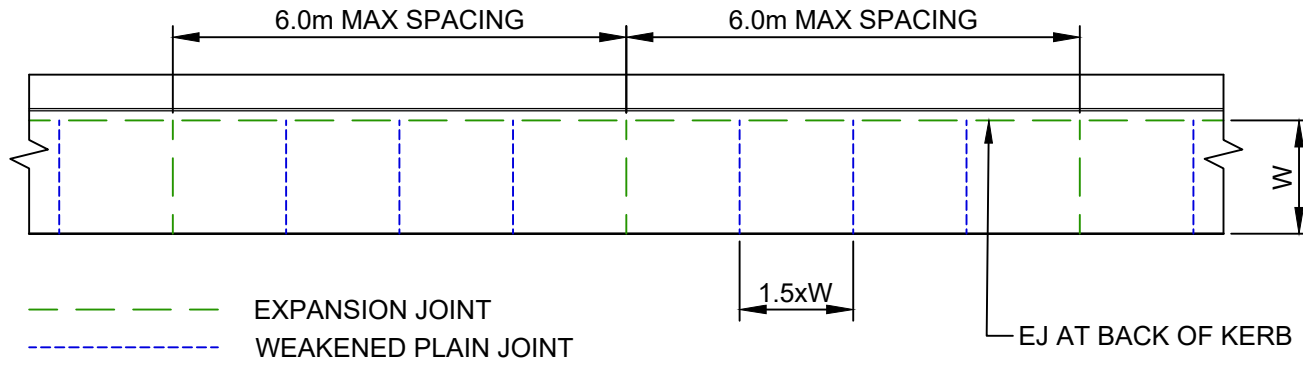
VEHICULAR PAVEMENT JOINTING (03000 SERIES DRAWINGS)

1. ALL VEHICULAR PAVEMENTS TO BE JOINTED AS SHOWN ON DRAWINGS.
2. DOWEL BARS ARE TO BE IN ACCORDANCE WITH GIVEN DETAIL. REFER 03000 SERIES DRAWINGS.
3. DOWELED EXPANSION JOINTS SHOULD GENERALLY BE LOCATED AT A MAXIMUM OF 24.0M CENTRES.
4. SAWN JOINTS SHOULD GENERALLY BE LOCATED AT A MAXIMUM OF 6.0M CENTRES OR 1.5 X THE SPACING OF PERPENDICULAR SAWN JOINTS.
5. PROVIDE 10mm WIDE FULL DEPTH EXPANSION JOINTS BETWEEN BUILDINGS/STRUCTURES AND ALL CONCRETE OR UNIT PAVERS.
6. THE TIMING OF THE SAW CUT IS TO BE CONFIRMED BY THE CONTRACTOR ON SITE. SITE CONDITIONS WILL DETERMINE HOW MANY HOURS AFTER THE CONCRETE POUR BEFORE THE SAW CUTS ARE COMMENCED. REFER TO THE SPECIFICATION FOR WEATHER CONDITIONS AND TEMPERATURES REQUIRED.
7. VEHICULAR PAVEMENT JOINTING AS FOLLOWS.



PEDESTRIAN PATH JOINTING (03000 SERIES DRAWINGS)

1. EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 6.0M CENTRES.
2. WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX 1.5 X WIDTH OF THE PAVEMENT.
3. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND / OR ADJACENT PAVEMENT JOINTS.
4. ALL PEDESTRIAN FOOTPATH JOINTING AS FOLLOWS (UNO).



KERBING

INCLUDES ALL KERBS, GUTTERS, DISH DRAINS, CROSSINGS AND EDGES.

1. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON MINIMUM 75mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.
2. EXPANSION JOINTS (EJ) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT 12M CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN SLABS.
3. WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3M CENTRES EXCEPT FOR INTEGRAL KERBS WHERE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN SLABS.
4. BROOMED FINISHED TO ALL RAMPED AND VEHICULAR CROSSINGS, ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
5. IN THE REPLACEMENT OF KERBS - EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm FROM LIP OF GUTTER. UPON COMPLETION OF NEW KERBS, NEW BASE COURSE AND SURFACE IS TO BE LAID 900mm WIDE TO MATCH EXISTING MATERIALS AND THICKNESSES. EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB WITH A 100mm DIA HOLE. EXISTING KERBS ARE TO BE COMPLETELY REMOVED WHERE NEW KERBS ARE SHOWN.

Z:\jobs\24\241459\civil\sheets\10\241459-TTW-10-DR-C-07001.dwg

						Client:			Engineer:			Project:			Drawing Title:			Scale at A1			Drawn			Designed			Approved																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
																					ES			JL			CR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
																					Project No			Originator			Type			Role			Sheet No.			Rev																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
2 SCHEMATIC DESIGN FOR REF			JL ES 06.12.2024																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

NOT FOR CONSTRUCTION

This drawing is copyright and is the property of TTW and must not be used without authorisation. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES AND LEGENDS



Z:\jobs\24\241459\civil\sheets\10\241459-TTW-10-DR-C-07101.dwg

Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date
3	SCHEMATIC DESIGN FOR REF	JL	ES 17.12.2024								
2	SCHEMATIC DESIGN FOR REF	JL	ES 06.12.2024								
1	FINAL DRAFT ISSUE FOR REF	JL	ES 21.11.2024								

Client:

 School Infrastructure NSW

Engineer:


www.ttweengineers.com

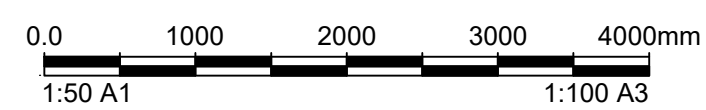
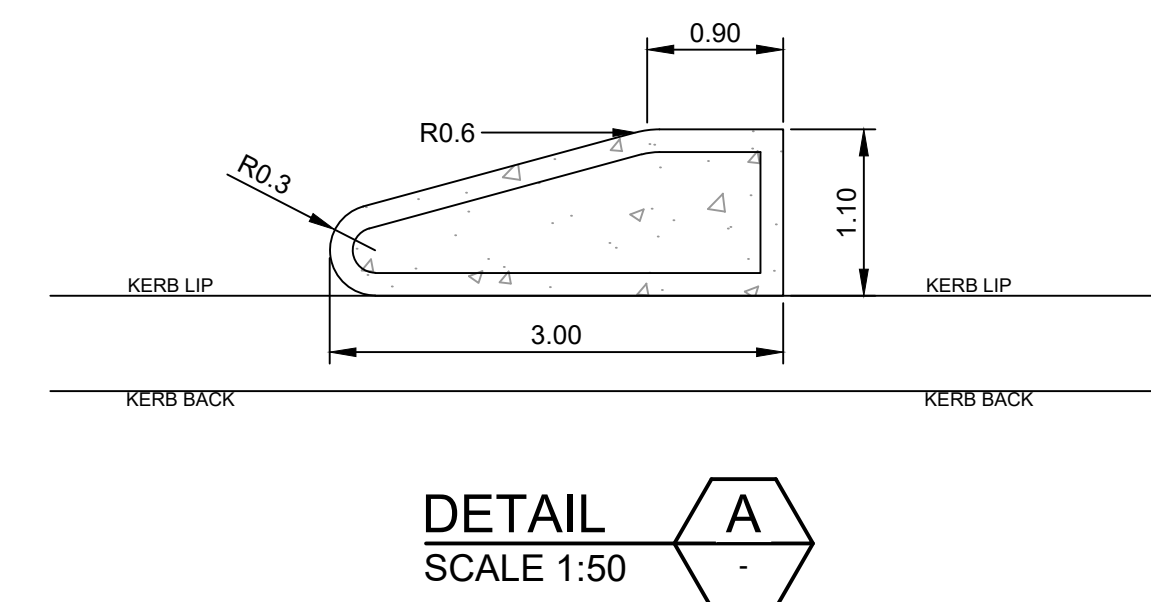
Project:



NEW HIGH SCHOOL FOR
JORDAN SPRINGS

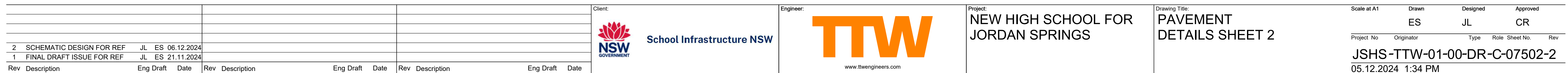
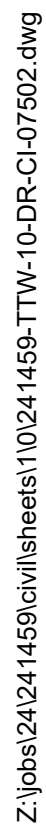
Drawing Title:

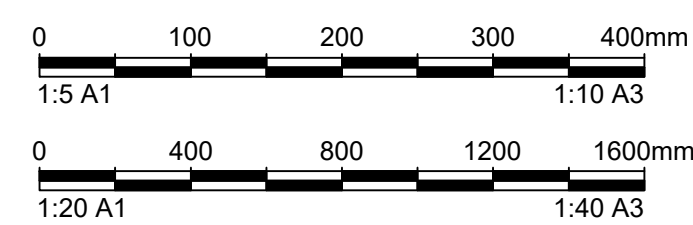
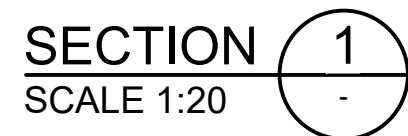
PAVEMENT
PLAN

Scale at A1	Drawn	Designed	Approved		
500	ES	JL	CR		
Project No	Originator	Type	Role	Sheet No.	Rev
JSHS-TTW-01-00-DR-C-07101-3					
17.12.2024 3:42 PM					



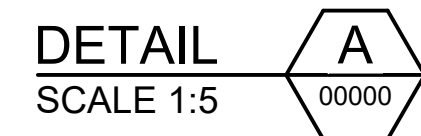
												Client:						Engineer:						Project:						Drawing Title:						Scale at A1			Drawn			Designed			Approved		
												 School Infrastructure NSW						 www.ttweengineers.com						NEW HIGH SCHOOL FOR JORDAN SPRINGS						PAVEMENT DETAILS SHEET 1						ES			JL			CR					
2 SCHEMATIC DESIGN FOR REF JL ES 06.12.2024						1 FINAL DRAFT ISSUE FOR REF JL ES 21.11.2024																														Project No			Originator			Type			Role		
Rev Description						Eng Draft Date						Rev Description						Eng Draft Date												05.12.2024 1:33 PM						JSHS-TTW-01-00-DR-C-07501-2											





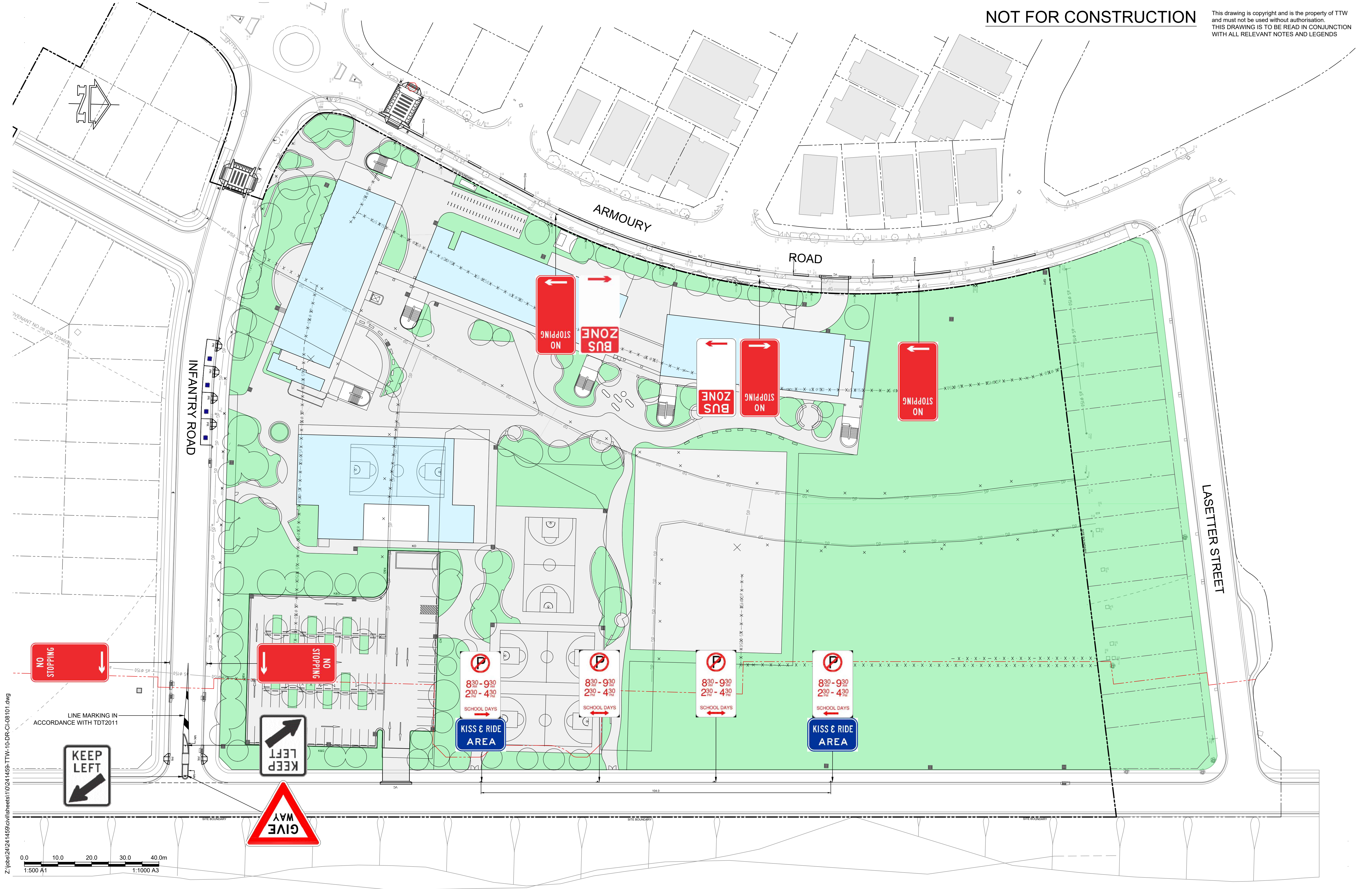
RISER AND GOING DIMENSIONS						
STAIR TYPE	RISER (R)		GOING (G)		SLOPE RELATIONSHIP (2R+G)	
	MAX	MIN	MAX	MIN	MAX	MIN
STAIRS (OTHER THAN SPIRAL)	190	115	355	240	700	550
SPIRAL	220	140	370	210	680	590

1. CONCRETE STRENGTH TO BE 32MPa
2. REFER SITE PLANS FOR SETOUT, LEVELS AND GEOMETRY
3. FOR MINIMUM SLIP RESISTANCE OF STAIR TREADS AND LANDINGS
REFER LANDSCAPE OR ARCHITECTURAL DOCUMENTATION



NOT FOR CONSTRUCTION

This drawing is copyright and is the property of TTW and must not be used without authorisation. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES AND LEGENDS



Z:\jobs\24\241459\civil\sheets\10\241459-TTW-10-DR-C-08101.dwg

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
2	SCHEMATIC DESIGN FOR REF	JL	ES	06.12.2024										
1	FINAL DRAFT ISSUE FOR REF	JL	ES	21.11.2024										

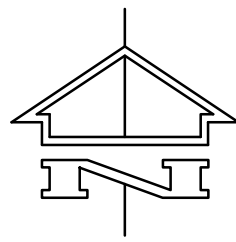
Client:	
Engineer:	



Project:
NEW HIGH SCHOOL FOR
JORDAN SPRINGS

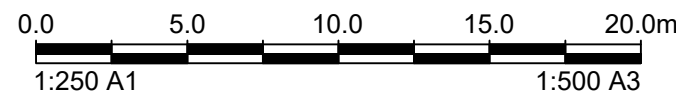
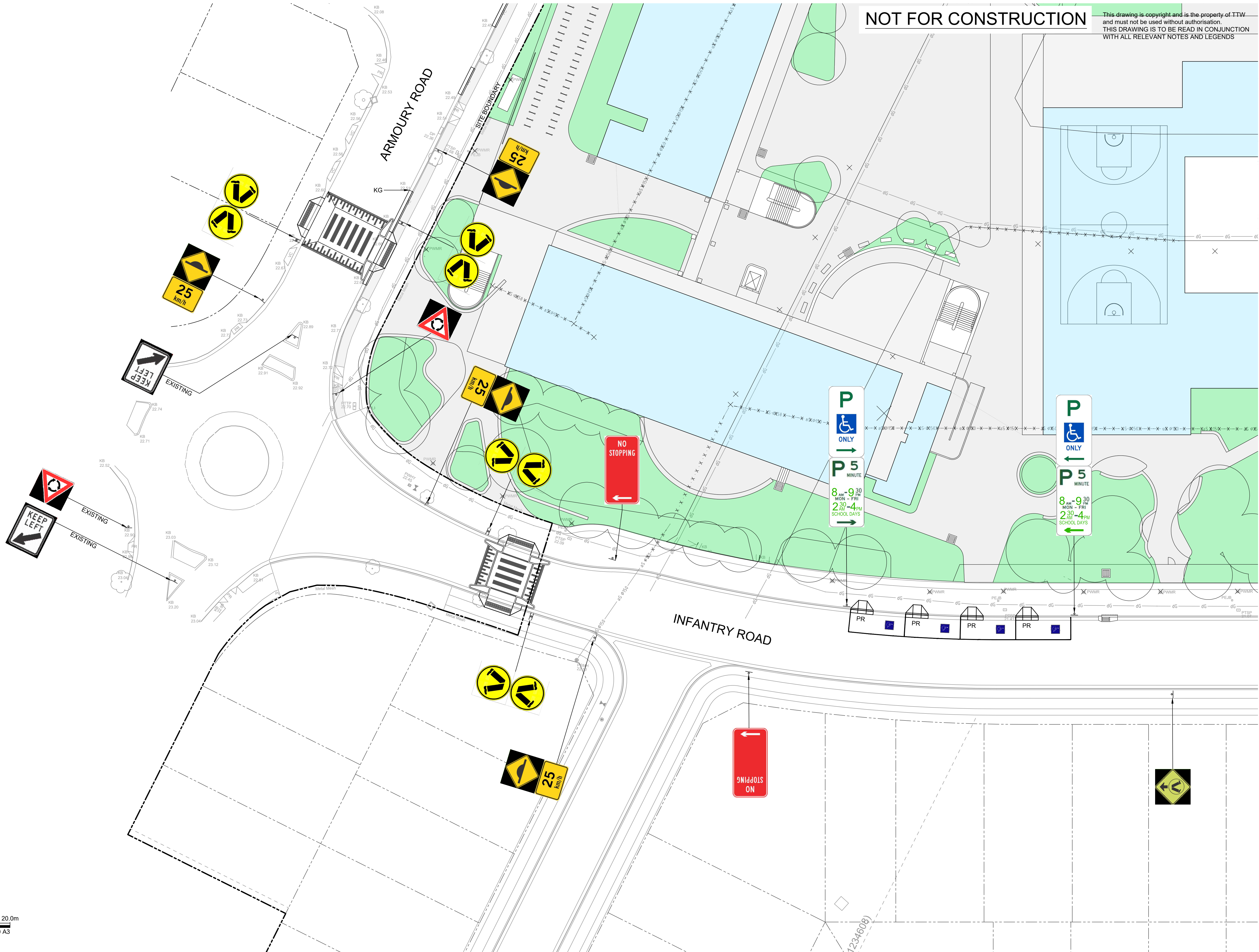
Drawing Title:
SIGNAGE AND LINEMARKING
PLAN

Scale at A1	Drawn	Designed	Approved		
500	ES	JL	CR		
Project No	Originator	Type	Role	Sheet No.	Re
JSHS-TTW-01-00-DR-C-08101-2					
05.12.2024 1:35 PM					





NOT FOR CONSTRUCTION

This drawing is copyright and is the property of TTW and must not be used without authorisation. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES AND LEGENDS



Z:\jobs\24\241459\civil\sheets\10\241459-TTW-10-DR-CI-08102.dwg

						Client:						Engineer:						Project:						Drawing Title:						Scale at A1		Drawn		Designed		Approved	
						 School Infrastructure NSW						 www.ttweengineers.com						NEW HIGH SCHOOL FOR JORDAN SPRINGS						SIGNAGE AND LINEMARKING INTERSECTION LAYOUT PLAN						250		ES		JL		CR	
																								Project No		Originator		Type		Role		Sheet No.		Rev			
2 SCHEMATIC DESIGN FOR REF JL ES 06.12.2024																																					
1 FINAL DRAFT ISSUE FOR REF JL ES 21.11.2024																																					
Rev		Description		Eng Draft		Date		Rev		Description		Eng Draft		Date		Rev		Description		Eng Draft		Date		Rev		Description		Eng Draft		Date							

JSHS-TTW-01-00-DR-C-08102-2									
05.12.2024 1:18 PM									