

SCHOOL INFRASTRUCTURE NSW



HUNTER RIVER HIGH SCHOOL

36 ELKIN AVENUE, HEATHERBRAE NSW 2324

REVISED SCHEMATIC DESIGN ISSUE 01/09/2023

Stantec Project Number: 301350909

HRHS-STNC-XX-XX-DR-C-055001 **DEMOLITION PLAN** GENERAL ARRANGEMENT PLAN SITE WIDE HRHS-STNC-XX-XX-DR-C-060001 HRHS-STNC-XX-XX-DR-C-060101 SITEWORKS PLAN-SHEET 1 HRHS-STNC-XX-XX-DR-C-060102 SITEWORKS PLAN-SHEET 2 HRHS-STNC-XX-XX-DR-C-060103 SITEWORKS PLAN-SHEET 3 SITEWORKS PLAN-SHEET 4 HRHS-STNC-XX-XX-DR-C-060104 SITEWORKS PLAN-SHEET 5 HRHS-STNC-XX-XX-DR-C-060105 SITEWORKS PLAN-SHEET 6 HRHS-STNC-XX-XX-DR-C-060106 HRHS-STNC-XX-XX-DR-C-060107 SITEWORKS PLAN-SHEET 7 SITEWORKS PLAN-SHEET 8 HRHS-STNC-XX-XX-DR-C-060108 HRHS-STNC-XX-XX-DR-C-060109 SITEWORKS PLAN-SHEET 9 HRHS-STNC-XX-XX-DR-C-070001 **EROSION AND SEDIMENT CONTROL PLAN** EROSION AND SEDIMENT CONTROL DETAILS HRHS-STNC-XX-XX-DR-C-076001 **BULK EARTHWORKS PLAN** HRHS-STNC-XX-XX-DR-C-100001 HRHS-STNC-XX-XX-DR-C-403001 ROADS TYPICAL SECTIONS SHEET 1 **ROADS DETAILS SHEET 1** HRHS-STNC-XX-XX-DR-C-406001 **ROADS DETAILS SHEET 2** HRHS-STNC-XX-XX-DR-C-406002 **ROADS DETAILS SHEET 3** HRHS-STNC-XX-XX-DR-C-406003 HRHS-STNC-XX-XX-DR-C-440101 PAVEMENT PLAN SHEET 1 HRHS-STNC-XX-XX-DR-C-440102 **PAVEMENT PLAN SHEET 2** HRHS-STNC-XX-XX-DR-C-440103 PAVEMENT PLAN SHEET 3 HRHS-STNC-XX-XX-DR-C-440104 PAVEMENT PLAN SHEET 4 HRHS-STNC-XX-XX-DR-C-440105 **PAVEMENT PLAN SHEET 5** HRHS-STNC-XX-XX-DR-C-440106 **PAVEMENT PLAN SHEET 6** HRHS-STNC-XX-XX-DR-C-440107 PAVEMENT PLAN SHEET 7 HRHS-STNC-XX-XX-DR-C-440108 PAVEMENT PLAN SHEET 8

DRAWING LIST

GENERAL NOTES

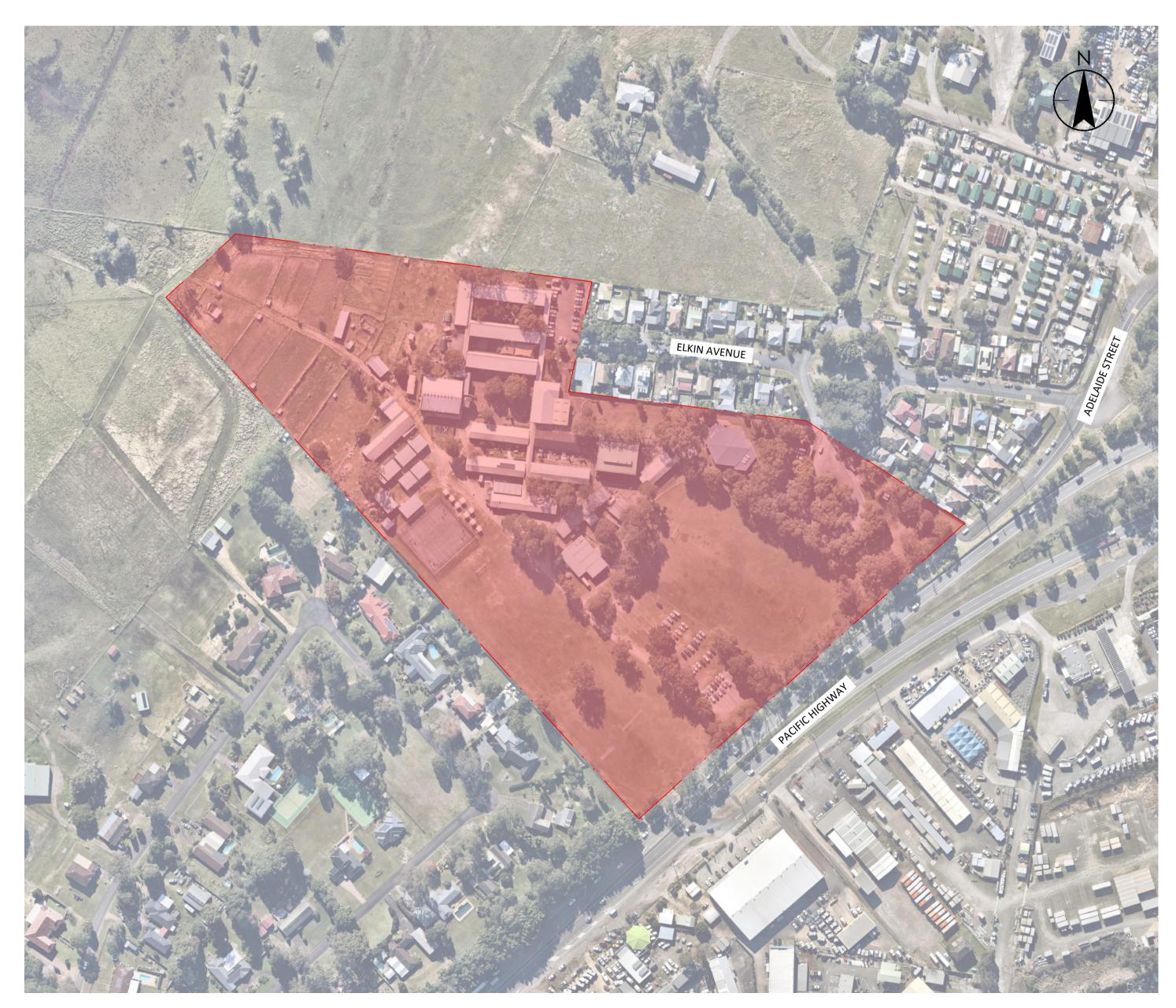
EXISTING CONDITIONS PLAN

HRHS-STNC-XX-XX-DR-C-000001 HRHS-STNC-XX-XX-DR-C-007001

HRHS-STNC-XX-XX-DR-C-050001

DRAWING NAME
COVER SHEET, DRAWING REGISTRY AND LOCALITY

HRHS-STNC-XX-XX-DR-C-440109	PAVEMENT PLAN SHEET 9
HRHS-STNC-XX-XX-DR-C-520001	STORMWATER DRAINAGE PLAN SITE WIDE
HRHS-STNC-XX-XX-DR-C-526001	STORMWATER DRAINAGE DETAILS SHEET 1
HRHS-STNC-XX-XX-DR-C-526002	STORMWATER DRAINAGE DETAILS SHEET 2
HRHS-STNC-XX-XX-DR-C-526003	STORMWATER DRAINAGE DETAILS SHEET 3
HRHS-STNC-XX-XX-DR-C-526004	STORMWATER DRAINAGE DETAILS SHEET 4
HRHS-STNC-XX-XX-DR-C-527001	STORMWATER DRAINAGE PIT SCHEDULE



- RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH OTHER SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL DIMENSIONS ARE IN MILLIMETRES & ALL LEVELS ARE IN METRES, UNO (UNLESS NOTED OTHERWISE).
- NO DIMENSION SHALL BE OBTAINED BY SCALING THE DRAWINGS.
- . ALL LEVELS AND SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF WORKS. . EXISTING SERVICES WHERE SHOWN HAVE BEEN PLOTTED FROM SUPPLIED
- DATA AND SUCH THEIR ACCURACY CAN NOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK. CAD FILES / DTM FILES TO BE SUPPLIED IN AUTOCAD FORMAT FOR SETOUT

SITEWORKS NOTES

ORIGIN OF LEVELS:- REFER SURVEY NOTES.

PURPOSES (UPON REQUEST).

- . CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO STANTEC.
- . CONTRACTOR TO CONFIRM ALL CBR VALUES PRIOR TO COMMENCEMENT OF WORKS.
- . MAKE SMOOTH CONNECTION WITH EXISTING WORKS. 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 SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN
- PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
- ASPHALTIC CONCRETE SHALL CONFORM TO RMS. SPECIFICATION R116. 9. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051 (UNBOUND), RMS. FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.
- FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m³ BASECOURSE MATERIAL PLACED.
- 10. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m³ OF SUB-BASE COURSE MATERIAL PLACED.
- 1. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH RMS. FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF STANTEC.
- 12. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
- 13. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

SURVEY NOTES

- THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN SHOWN AS PER THE TOPOGRAPHIC SURVEY RECEIVED ON 14/06/2022 PREPARED BY PARKER SCANLON, REFERENCE 'B1975', DATED 04/05/2020.
- THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. STANTEC 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 STANTEC.

CONCRETE NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- 2. CONCRETE QUALITY ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	AS 3600 F'c MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
VEHICULAR BASE KERBS, PATHS, AND PITS	32 25	60 80	20 20

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL - PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.
- NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY STANTEC.
- CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
- ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
- THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH R.M.S. SPECIFICATION R83. REINFORCEMENT SYMBOLS:
- N DENOTES GRADE 450 N BARS TO AS/NZS 4671 GRADE N
- R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS/NZS 4671 SL DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS/NZS 4671

NUMBER OF BARS IN GROUP - BAR GRADE AND TYPE

17 N 20 250

THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE

NOMINAL BAR SIZE IN mm — SPACING IN mm

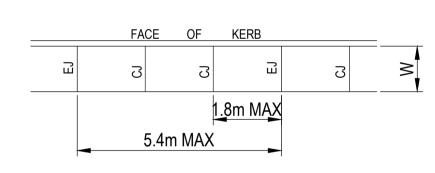
REFERENCE NUMBER FOR FABRIC TO AS/NZS 4671. 8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL

> MIN 25 LAP TWO WIRES

JOINTING NOTES

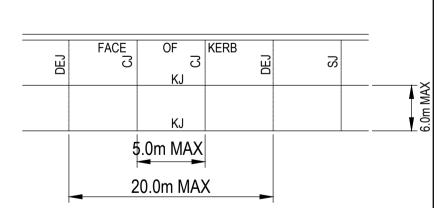
PEDESTRIAN PAVEMENT JOINTS

- ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS. (U.N.O) EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX. 5.4m CENTRES.
- CONTRACTION JOINTS ARE TO BE LOCATED AT A MAX. SPACING OF 1.8m WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING
- AND OR ADJACENT PAVEMENT JOINTS. PEDESTRIAN PAVEMENT JOINT DETAIL:



VEHICULAR PAVEMENT JOINTS

- ALL VEHICULAR PAVEMENTS TO BE JOINTED AS FOLLOWS. (U.N.O) CONTRACTION JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 5.0m CENTRES WITH DOWELED EXPANSION JOINTS AT MAX 20.0m CENTRES
- VEHICULAR PAVEMENT JOINT DETAIL



KERBING NOTES

- ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa U.N.O IN REINFORCED CONCRETE NOTES.
- ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 5.2.1).
- EXPANSION JOINTS (E.J) 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 MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
- WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
- BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED. IN THE REPLACEMENT OF KERB AND GUTTER:- EXISTING ROAD
- PAVEMENT IS TO BE SAWCUT 900mm U.N.O FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 600mm WIDE U.N.O.
- KERB AND GUTTER WITH 100mm DIA HOLE. EXISTING KERB AND GUTTER IS TO BE COMPLETELY REMOVED WHERE NEW KERB AND GUTTER IS SHOWN.

EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW

PROPOSED SERVICES NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT SERVICE AUTHORITY DOCUMENTATION AND CURRENT NSW STREETS OPENING CONFERENCE GUIDE TO CODES AND PRACTICES FOR STREETS OPENING LITERATURE.
- THE CONTRACTOR SHALL ATTEND, MANAGE & SUPERVISE THE PROVISION OF PUBLIC UTILITY SERVICES TO THE WORKS GENERALLY AS INDICATED ON THE SERVICES PLANS, NOTING THAT PRIOR & DURING CONSTRUCTION THE PUBLIC UTILTITY AUTHORITIES WILL FINALISE THEIR DOCUMENTATION TO CONSTRUCTION ISSUE STANDARD.
- THE CIVIL CONTRACTOR (TRENCH PROVIDER) IS TO ARRANGE ON SITE MEETING WITH ALL SERVICE AUTHORITIES PRIOR TO THE INSTALLATION OF CONDUITS.
- THE CIVIL CONTRACTOR TO CO-ORDINATE INSTALLATION OF ELECTRICITY, GAS, TELECOMMUNICATION, WATER AND SEWER SERVICES.
- ELECTRICITY, GAS AND TELECOMMUNICATION SERVICES ARE TO BE LAID FOLLOWING THE INSTALLATION OF STORMWATER, SEWER AND WATER SERVICES AND KERB AND GUTTER.
- ALL UTILITY AUTHORITY REPRESENTATIVES TO INSPECT ROAD CROSSINGS PRIOR TO SEALING.
- ALL ELECTRICAL ROAD CROSSINGS TO BE CLASS 6 (ORANGE) uPVC CONDUITS.
- ALL GAS ROAD CROSSINGS TO BE uPVC GREY SEWER GRADE CONDUITS. ALL STREET POLES TO BE POSITIONED THE APPROPRIATE DISTANCE FROM
- FACE OF KERB TO FACE OF POLE ACCORDING TO THE CURRENT NSW STREETS OPENING CONFERENCE GUIDE TO CODES AND PRACTICES FOR STREETS OPENING LITERATURE. CONTRACTOR TO ALLOW TO EXCAVATE AND BACKFILL TRENCH GENERALLY IN ACCORDANCE WITH NOTE 2.
- 10. ALL SERVICE PIT COVERS AND MARKERS ARE TO BE LAID WHOLLY WITHIN THE CONCRETE FOOTPATH. CONTACT SUPERINTENDANT SHOULD DIFFICULTIES ARISE.

TELSTRA - DUTY OF CARE NOTE

FELSTRA'S PLANS SHOW ONLY THE PRESENCE OF CABLES AND PLANT. THEY ONLY SHOW THEIR POSITION RELATIVE TO ROAD BOUNDARIES, PROPERTY FENCES ETC. AT THE TIME OF INSTALLATION AND TELSTRA DOES NOT NARRANT OR HOLD OUT THAT SUCH PLANS ARE ACCURATE THEREAFTER DUE TO CHANGES THAT MAY OCCUR OVER TIME. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY. THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR TELSTRA CABLES AND PLANT. BEFORE USING MACHINE EXCAVATORS TELSTRA PLANT MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POTHOLING TO IDENTIFY IT'S LOCATION TELSTRA WILL SEEK COMPENSATION FOR DAMAGES CAUSED TO IT'S PROPERTY AND LOSSES CAUSED TO TELSTRA AND IT'S CUSTOMERS.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

- THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
- 2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH 2.1. LOCAL AUTHORITY REQUIREMENTS
- 2.2. EPA REQUIREMENTS
- 2.3. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN
- STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004. . MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
- 4. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF
- ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS. . CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

LAND DISTURBANCE

- WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
- 6.1. INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
- 6.2. CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
- 6.3. INSTALL SEDIMENT BASIN AS SHOWN ON PLAN
- 6.4. INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN. . UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

EROSION CONTROL

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

SEDIMENT CONTROL

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

OTHER MATTERS

- 3. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND
- 14. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
- 14.1. PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
- 14.2. ENSURING THAT NOTHING IS NAILED TO THEM 14.3. PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING
- CONDITIONS 14.4. ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS
- THE GREATER 14.5. A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER
- ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH 14.6. CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

BULK EARTHWORKS NOTES

- REFER SPECIFICATIONS NOTES FOR EARTHWORKS GENERAL REQUIREMENTS.
- . STRIP EXISTING TOPSOIL IN CONSULTATION WITH THE GEOTECHNICAL ENGINEER / REPORT. FOR THE PURPOSES OF EARTHWORKS CALCULATIONS A TOPSOIL STRIPPING DEPTH OF 300mm HAS BEEN ASSUMED. GROUND
- SLAB DEPTH OF 150mm HAS BEEN ASSUMED WHERE REQUIRED. NO ALLOWANCE HAS BEEN MADE FOR BULKING FACTORS. NOTE ALL
- VOLUMES DEPICTED ARE SOLID VOLUMES ONLY AND MAY NOT REFLECT DETAILED EARTHWORKS. NO ALLOWANCE HAS BEEN MADE FOR DETAILED EARTHWORKS; ie SERVICE
- TRENCHING, DETAILED EXCAVATION, FOOTINGS, RETAINING WALLS AND THE LIKE. . THE CONTRACTOR SHALL USE FINAL SURFACE LEVELS AND TYPICAL
- PAVEMENT DETAILS FOR ACTUAL EARTHWORKS LEVELS.
- . BULK EARTHWORKS ARE BASED ON THE SETDOWN TO UNDERSIDE OF PAVEMENT BUILDUPS AS SPECIFIED FROM FINISHED SURFACE LEVELS.
- SITE STRIPPING VOLUMES HAVE NOT BEEN INCLUDED IN BULK
- EARTHWORKS CALCULATIONS.

STORMWATER DRAINAGE NOTES

- ON COMPLETION OF STORMWATER INSTALLATION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD
- PAVEMENTS, UNLESS DIRECTED OTHERWISE. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '3'
- APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
- PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT
- WELDED JOINTS.
- . EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED. 5. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO
- BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN
- PIPES TO BE INSTALLED TO TYPE HS3 (ROAD) HS2 (LOTS) SUPPORT IN ACCORDANCE WITH AS 3725 (2007) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
- ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (2006) AND AS/NZS 3500 3.2 (2010).
- PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY STANTEC.
- . ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- 10. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR
- PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED. 1. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES
- SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- 12. GRATES AND COVERS SHALL CONFORM TO AS 3996. 13. ALL INTERNAL PIT DIMENSIONS TO CONFORM TO AS3500.3 TABLE 7.5.2.1 14. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE
- SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS. 15. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY
- PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER 16. THE CONTRACTOR IS TO ORGANISE AND STAGE CONSTRUCTION WORK AND
- UNDERTAKE ANY DIVERSION WORKS TO ENSURE THE EXISTING DRAINAGE IS ABLE TO CONVEY ALL STORMWATER FLOWS THAT MAY OCCUR DURING
- THE PERIOD OF THE CONSTRUCTION WORKS. 17. ANY DAMAGE TO THE WORKS DUE TO STORMWATER FLOWS OR FLOODING DURING THE CONSTRUCTION PERIOD IS AT THE CONTRACTOR'S RISK.
- 18. SETOUT POINTS FOR STORMWATER STRUCTURES ARE AS INDICATED IN THE DRAWINGS UNLESS OTHERWISE NOTED.
- 19. ALL PAVED SURFACE LEVELS AND GRADES TO BE COORDINATED WITH GULLY PIT LEVELS TO ENSURE NO UNDRAINED AREAS OCCUR. 20. THE SIDES OF ALL PIPE TRENCH EXCAVATIONS DEEPER THAN 1.0m SHALL BE FULLY SUPPORTED AT ALL TIMES AND HAVE APPROPRIATE EDGE
- PROTECTION. 21. ALL NEW PIPES TO BE LAID IN AN UPSTREAM DIRECTION. THE LINE, LEVEL AND LOCATION OF EXISTING SERVICES CROSSING THE LINE OF THE PROPOSED STORMWATER PIPE SHALL BE DETERMINED BY EXCAVATION PRIOR TO THE LAYING OF THE PIPE. IF CONFLICT IS APPARENT, THE ENGINEER SHALL BE NOTIFIED AND INSTRUCTIONS AS TO WHETHER THE EXISTING SERVICE IS TO BE ADJUSTED OR THE PROPOSED PIPE INVERT
- ALTERED WILL BE ISSUED. 22. PIPE BEDDING, HAUNCH AND BACKFILL TO BE AS SHOWN ON THE CIVIL
- DETAILS DRAWINGS AND THE CIVIL SPECIFICATION. 23. SUBSOIL DRAINAGE PIPES TO BE SLOTTED PIPE AND FILTER SOCK CLASS 1000 TO AS2439 PART 1 LAID AT PREFERABLE MINIMUM GRADE 1 IN 100 OR
- ABSOLUTE MINIMUM 1 IN 200 WHERE LIMITED BY OUTFALL LEVELS. 24. STORMWATER STRUCTURES ARE TO BE CONSTRUCTED PERPENDICULAR TO THE INCOMING PIPEWORK UNLESS OTHERWISE NOTED.
- 25. PRECAST COMPONENTS SHALL BE CONNECTED BY MEANS OF EPOXY OR CHEMICAL GROUTED BARS OF THE SAME DIAMETER AND SPACING AS THE SMALLER BARS IN THE RESPECTIVE COMPONENTS. 26. PRE-CAST PITS MUST HAVE LIFTING ANCHORS.

27. WORKING LOADS ARE THOSE DUE TO FILL MATERIAL AND STANDARD

HIGHWAY VEHICLES AS PER AS3725. CONSTRUCTION LOADS HAVE NOT BEEN ALLOWED FOR. 28. ALL EXPOSED EDGES ON STORMWATER PITS TO BE ROUNDED TO 5mm RAD. UNO.



Notes 2023.09.01 JMB F REVISED SCHEMATIC DESIGN JMB
JMB
JMB
JMB СРО REVISED SCHEMATIC DESIGN 2023.04.13 DRAFT REVISED SCHEMATIC DESIGN ISSUE 2023.03.24 FINAL PHASE 3 ISSUE 2022.08.08 B 100% SCHEMATIC DESIGN PROCESS CPO 2022.07.29 A 95% SCHEMATIC DESIGN PROCESS JMB 2022.07.14 Appd YYYY.MM.DD Issued/Revision

Issue Status

PRELIMINARY

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Level 6, Building B



Education School Infrastructure

HUNTERS RIVER HIGH SCHOOL

HEATHERBRAE NSW 2324

Client/Project

SINSW

File Name: HRHS-STNC-XX-XX-DR-C-007001.DWG CPO JMB JMB 2022.07.14 Dwn. Dsgn. Chkd. YYYY.MM.DD GENERAL NOTES

Revision

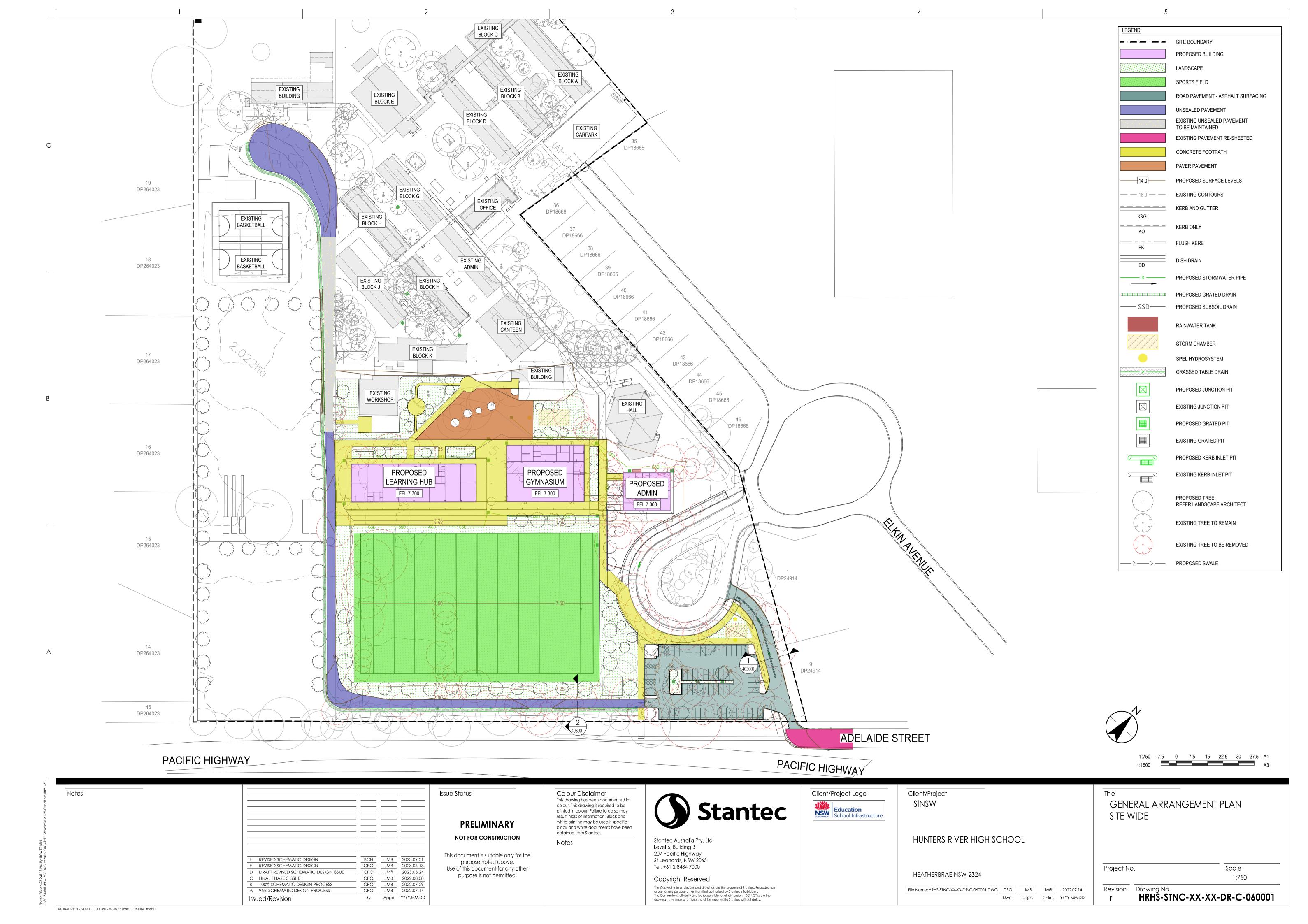
Project No.

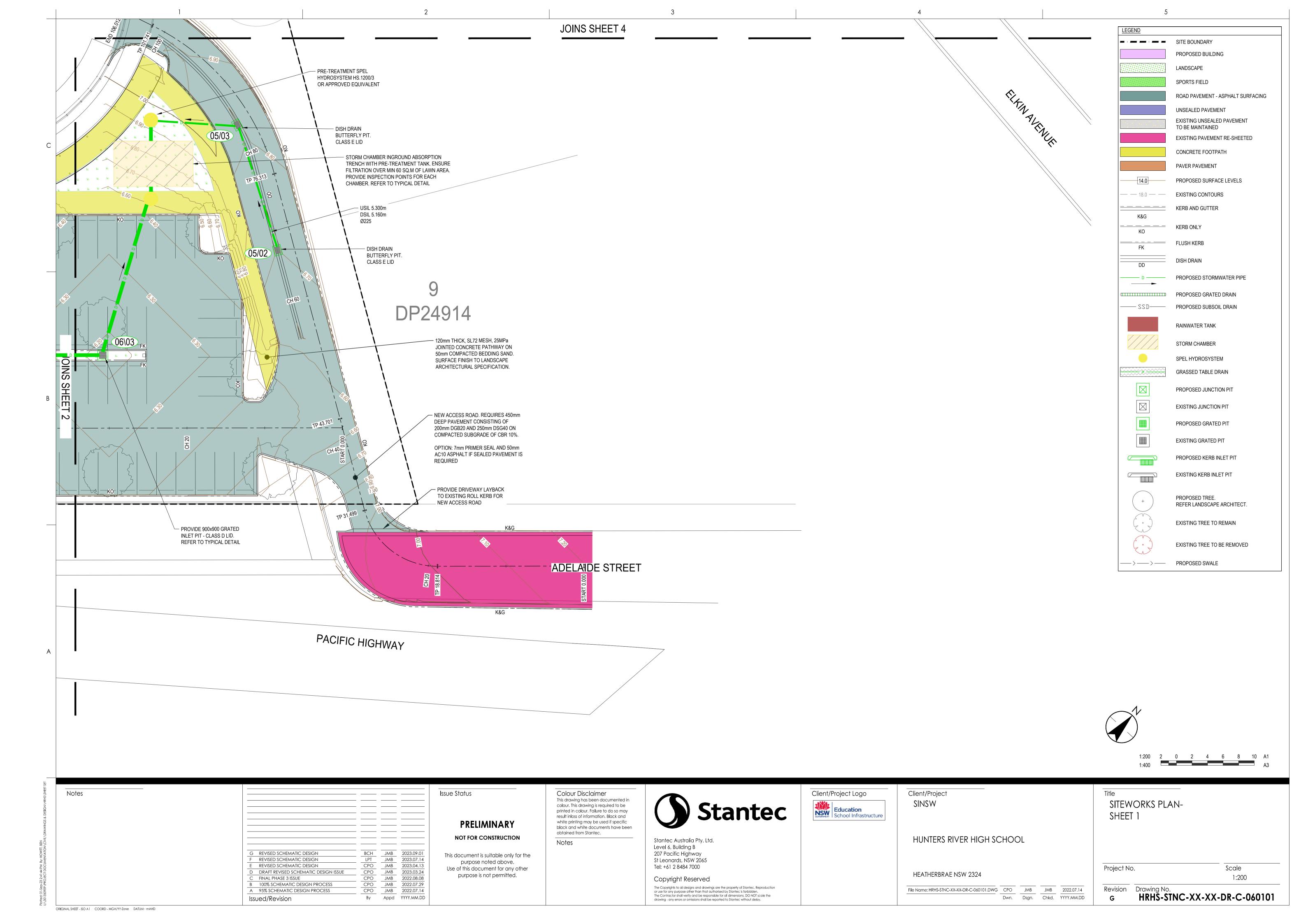
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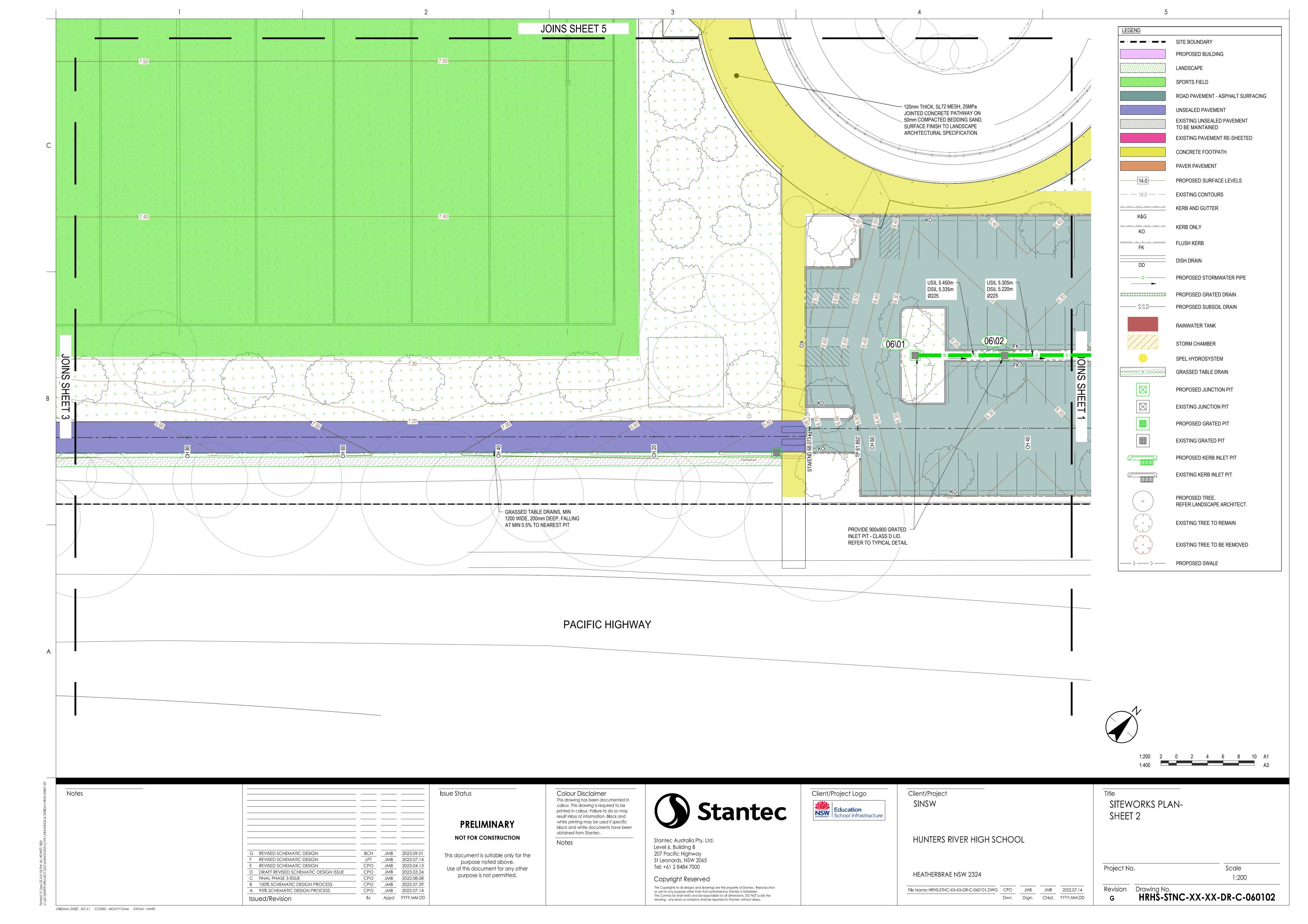
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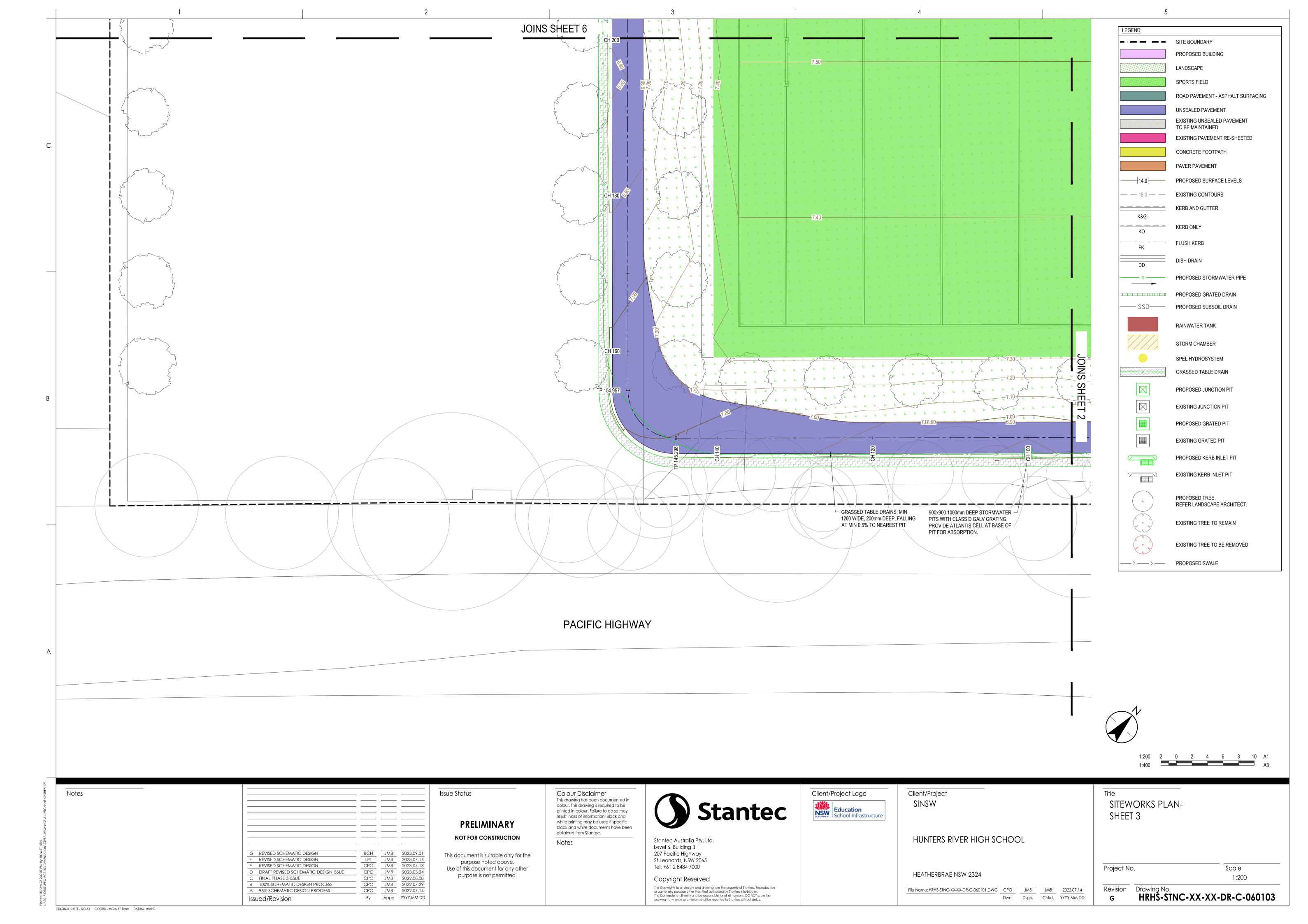


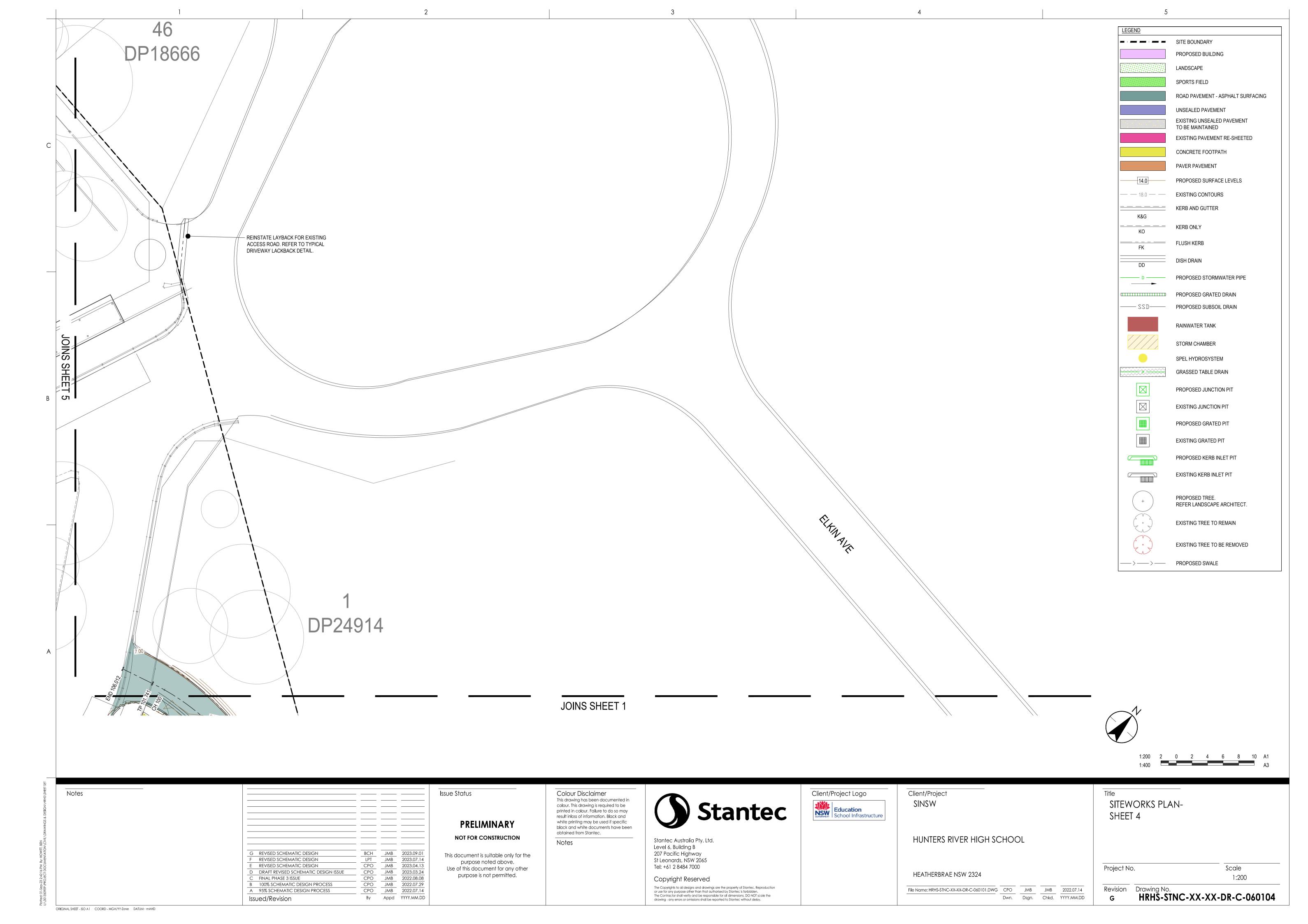


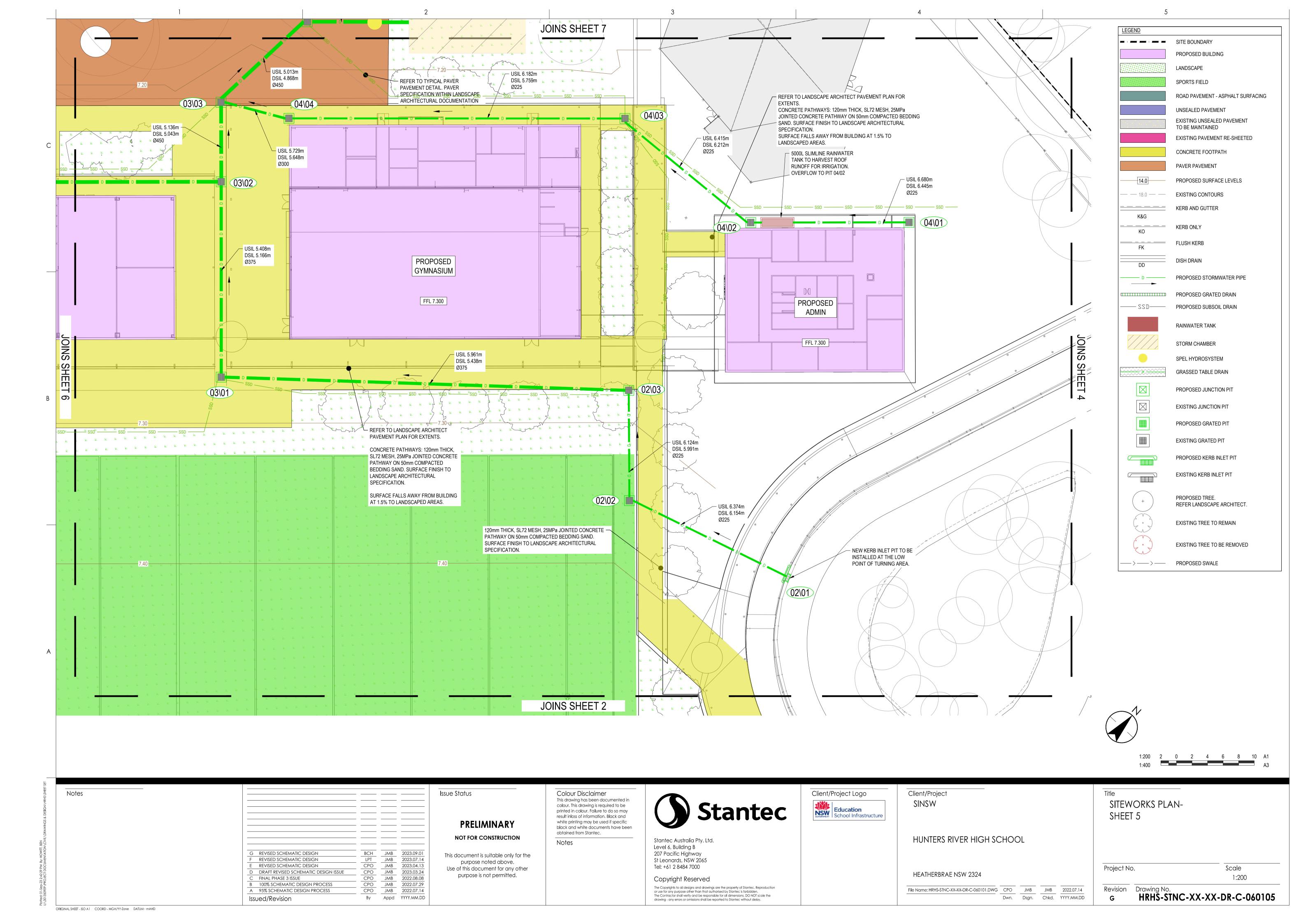


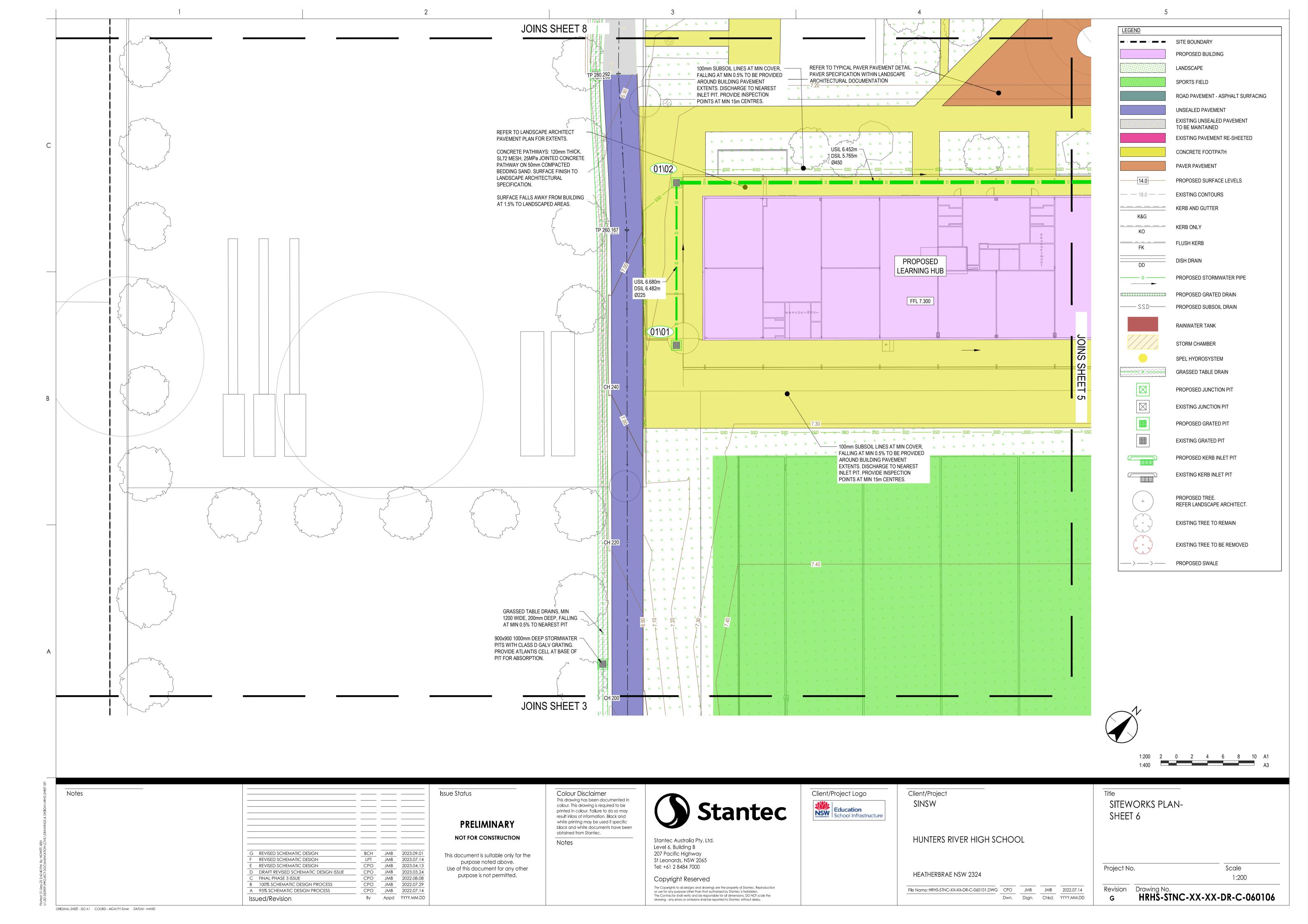


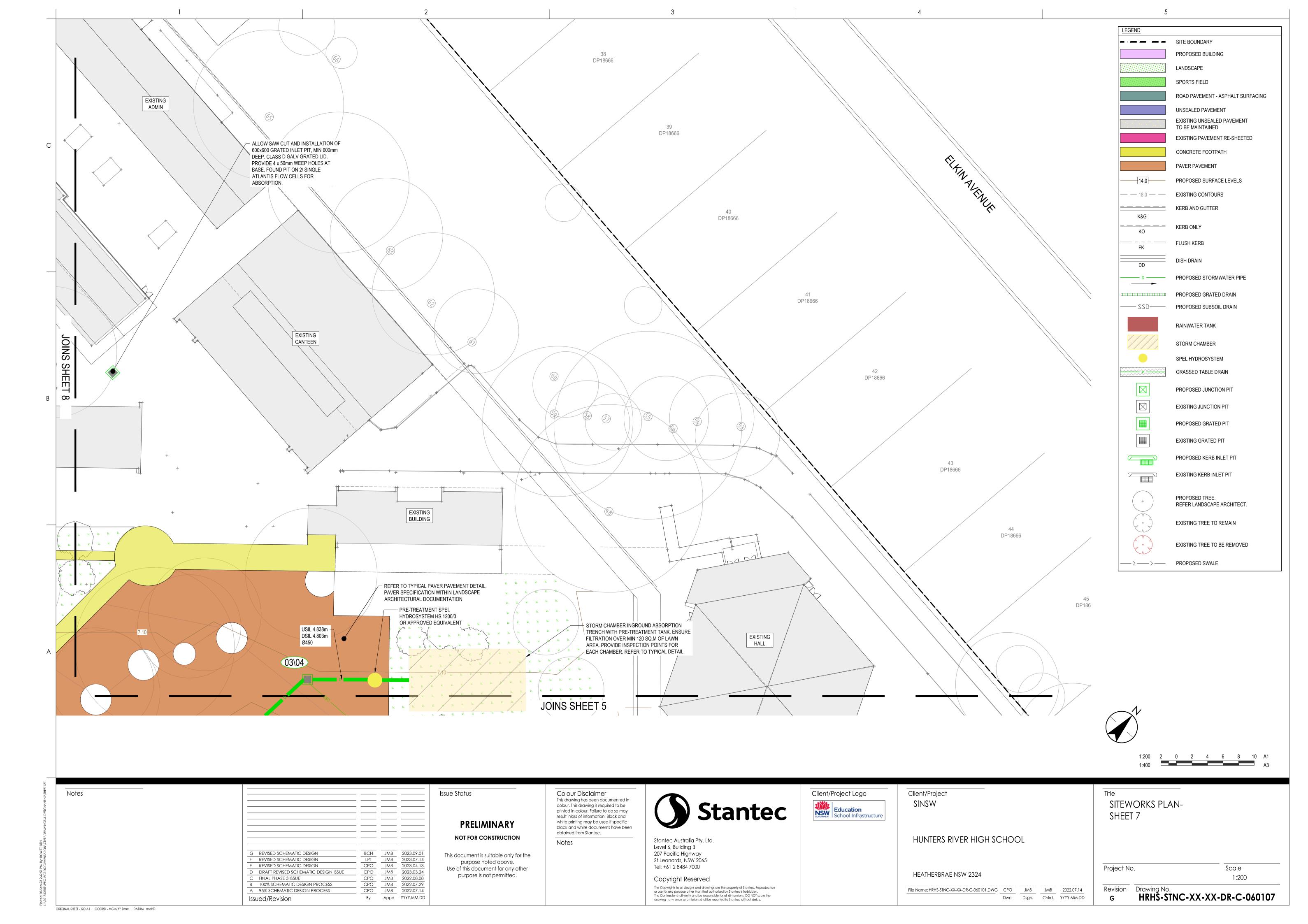


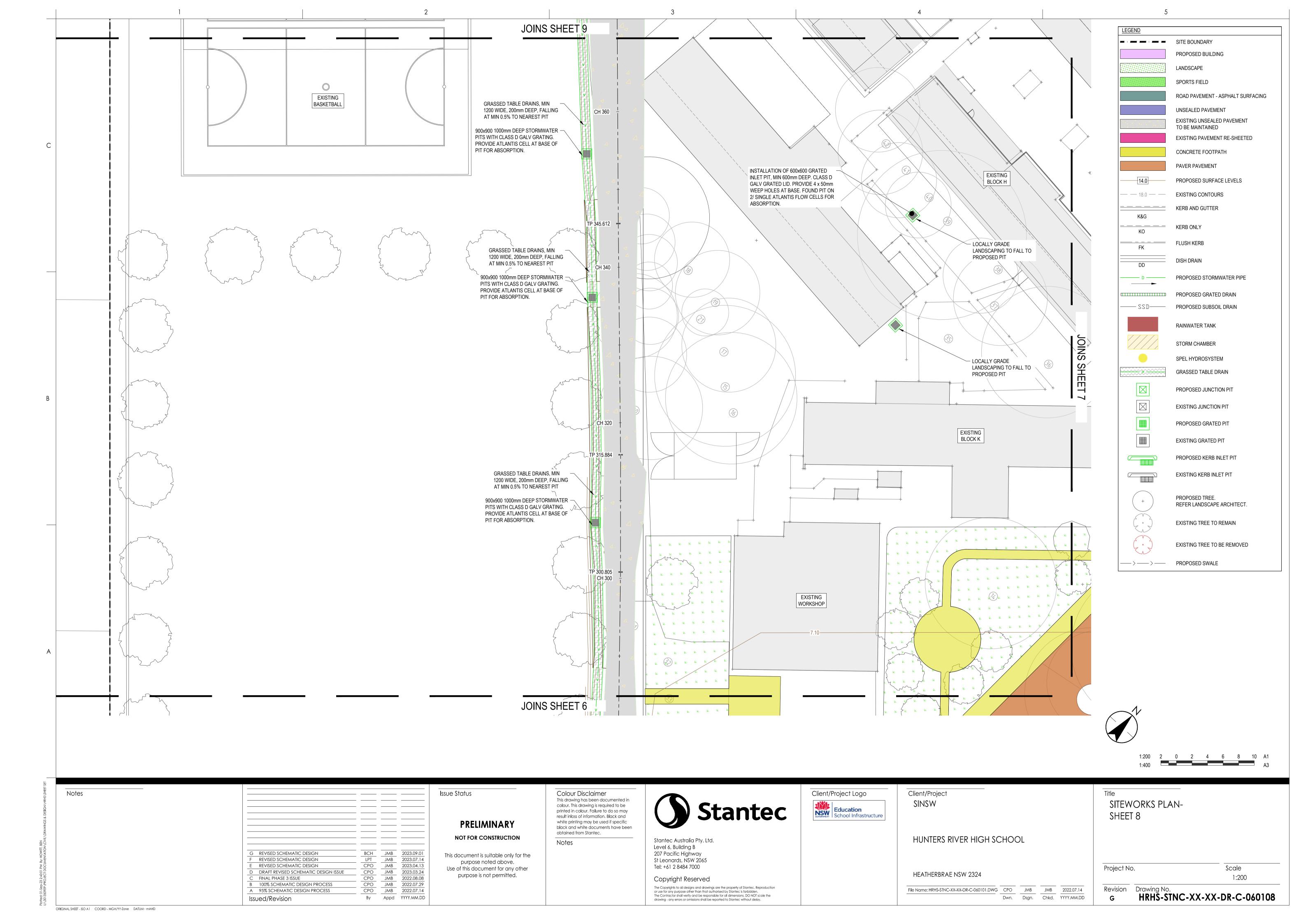


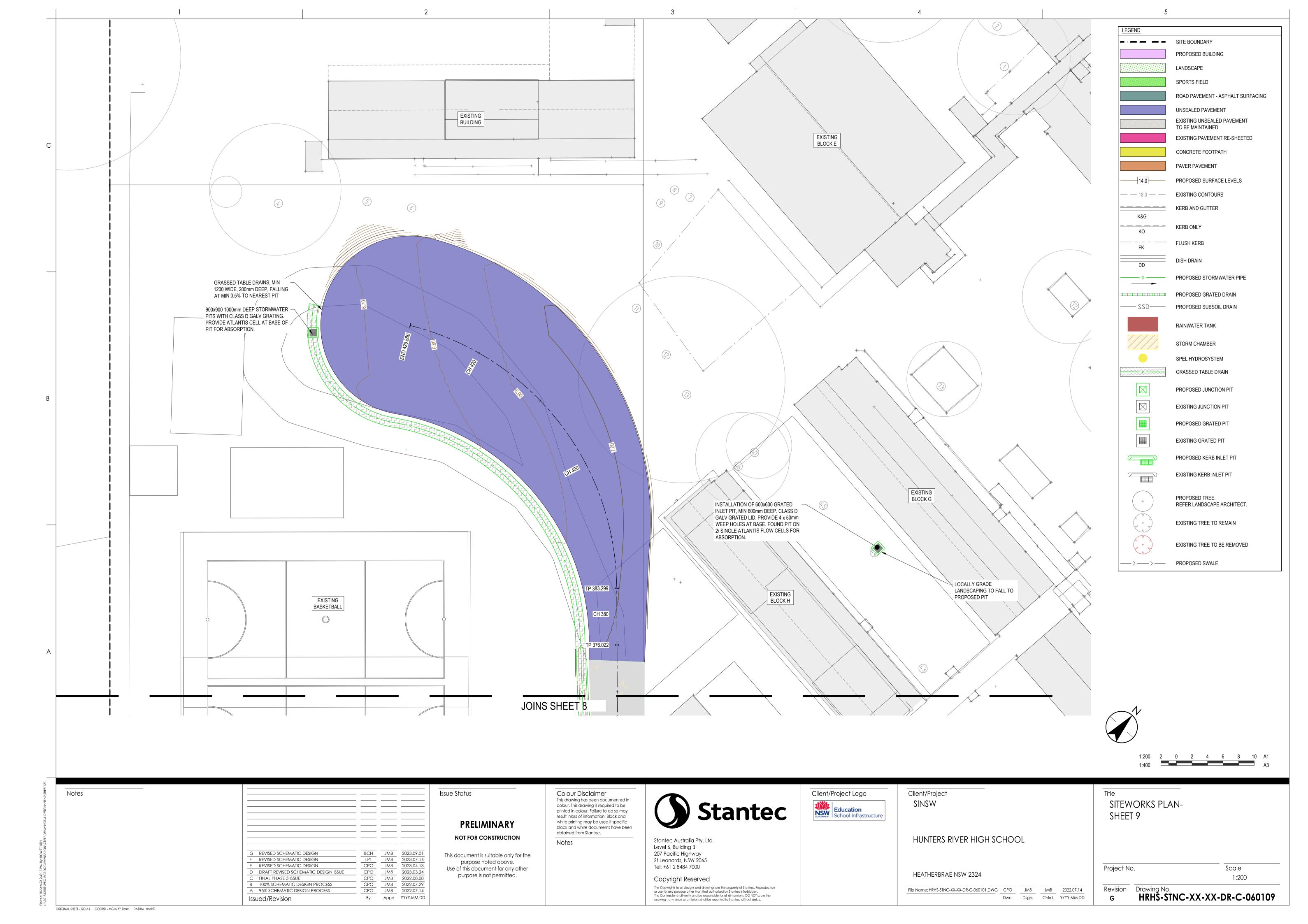


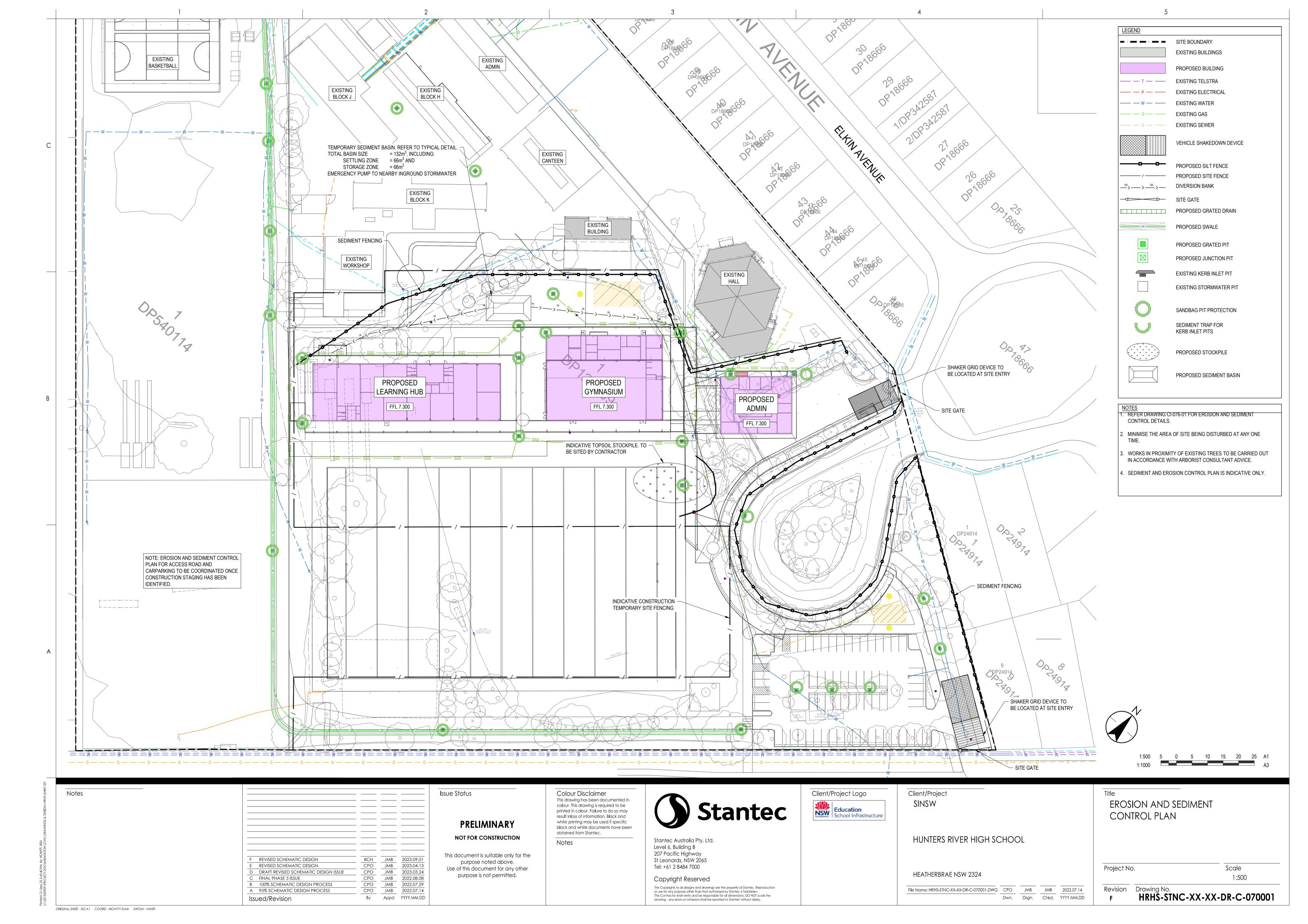


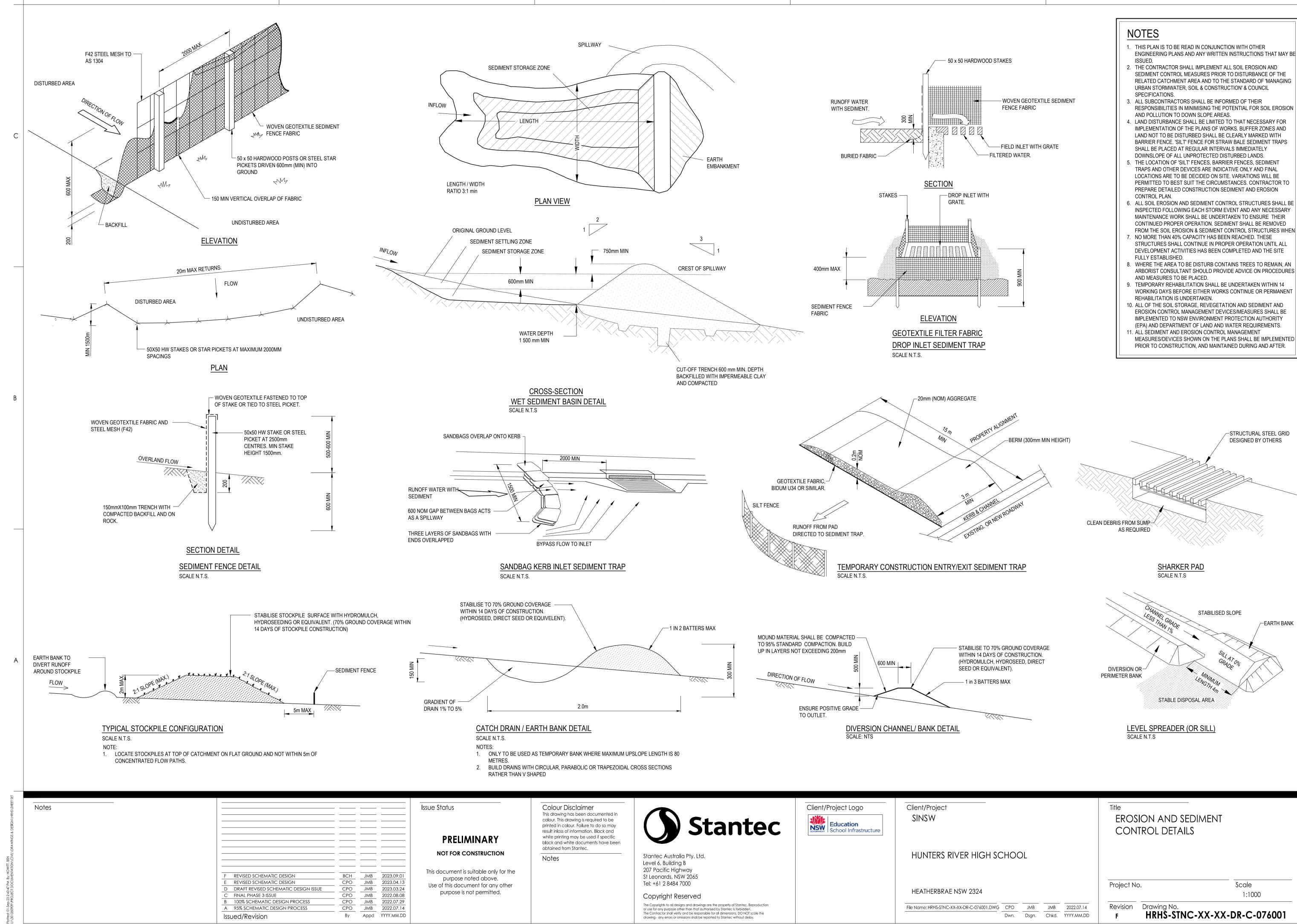


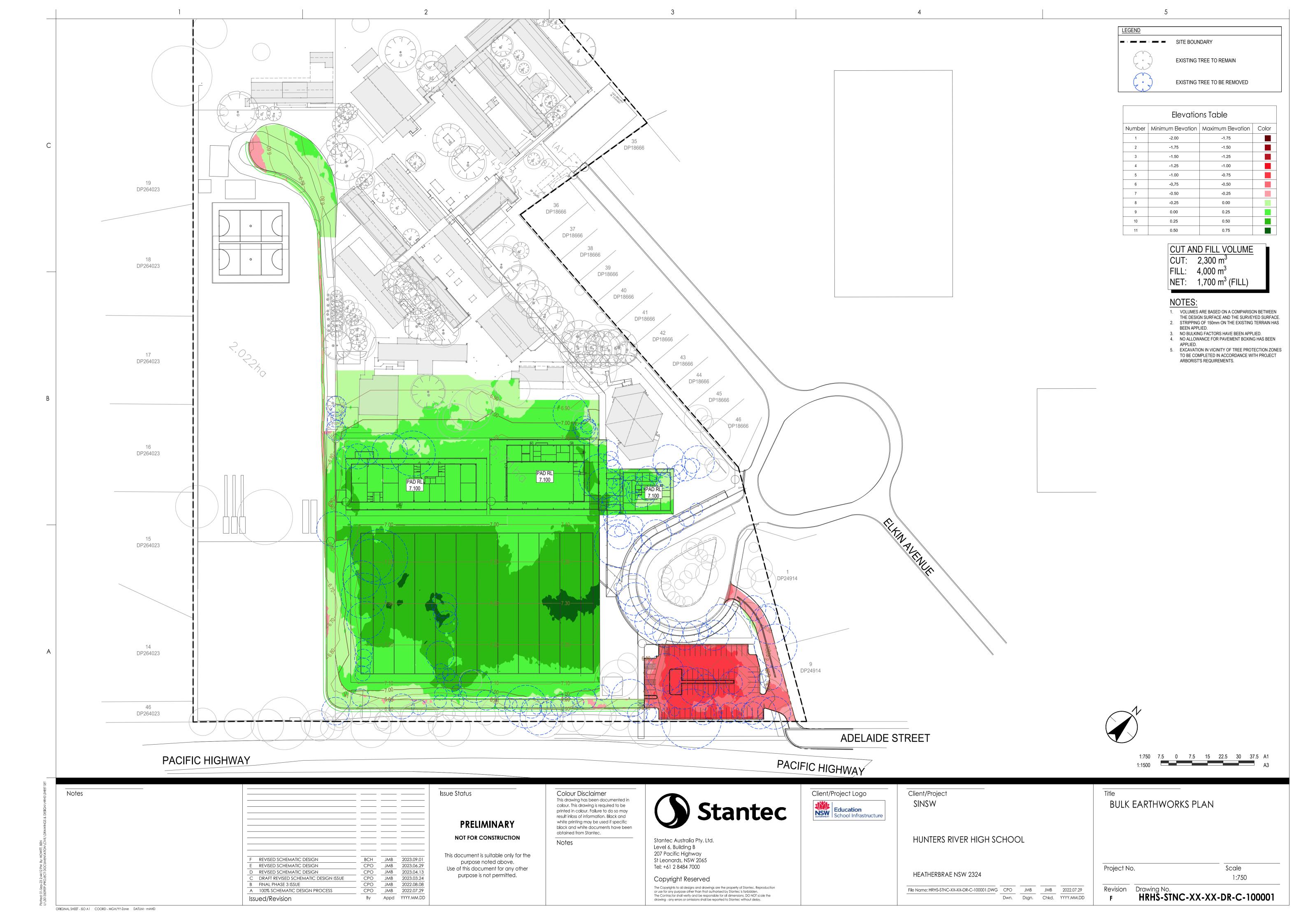


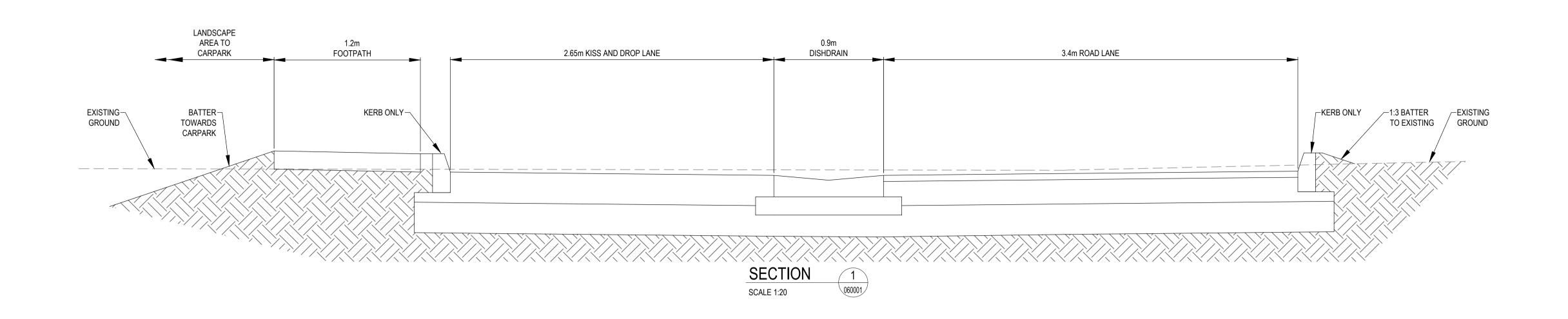


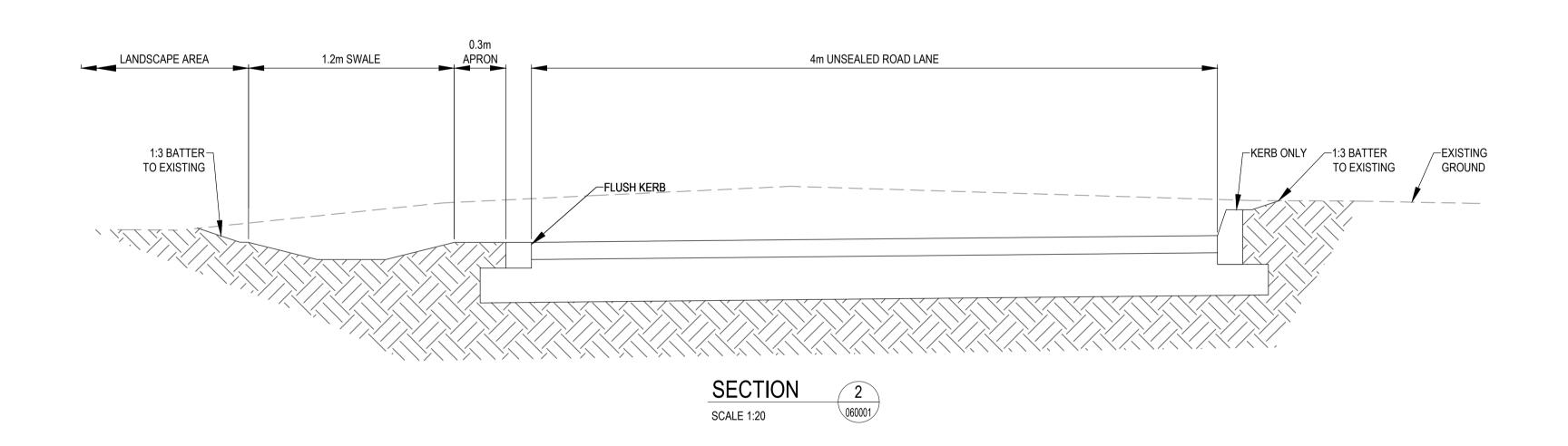




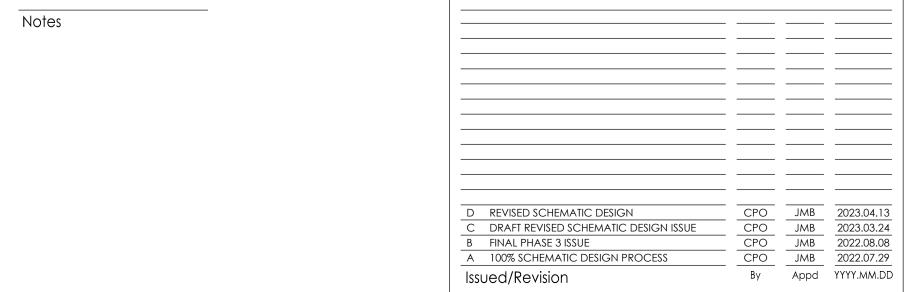








1:20 0.2 0 0.2 0.4 0.6 0.8 1 A1



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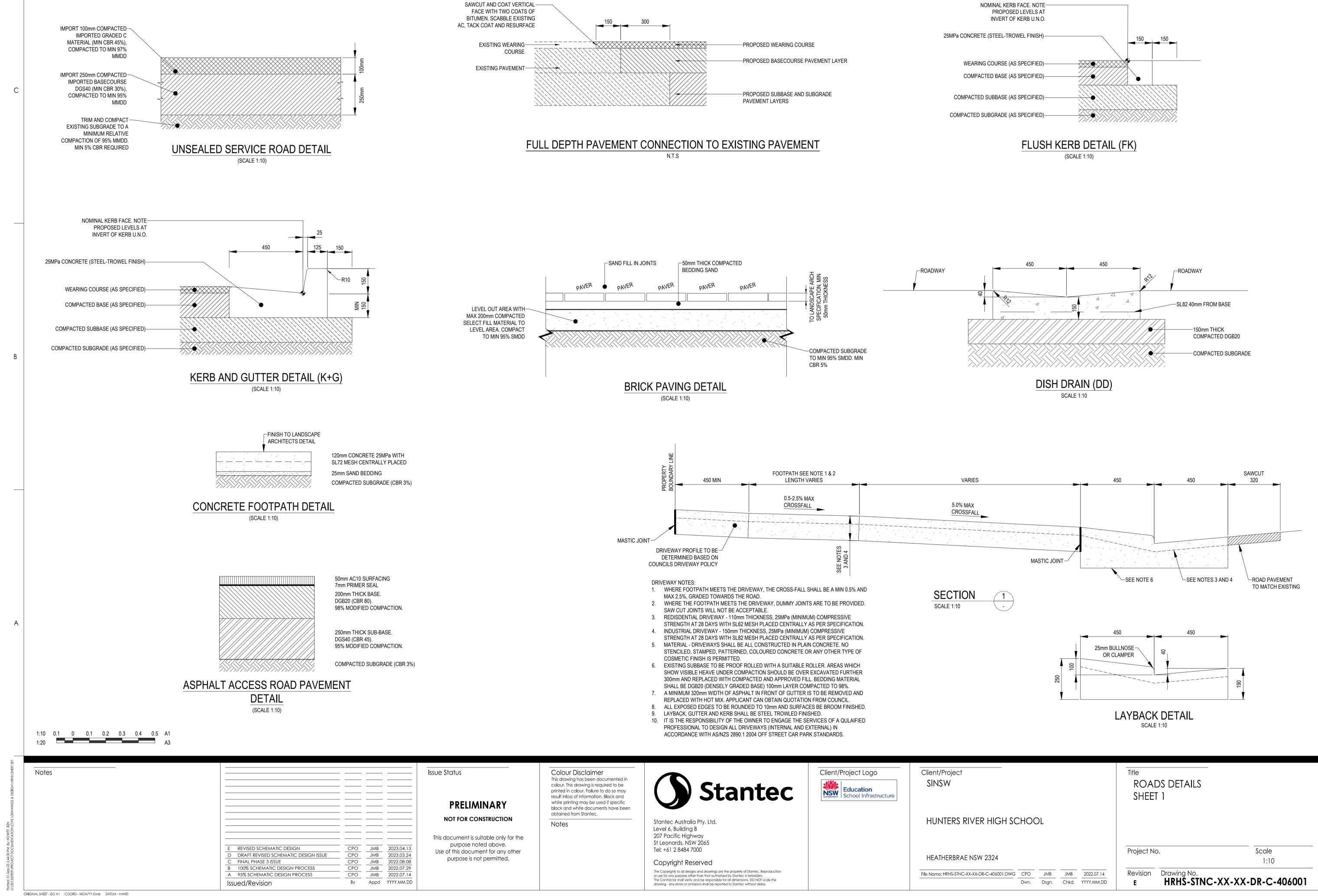
Client/Project Logo Education School Infrastructure

Client/Project SINSW

HUNTERS RIVER HIGH SCHOOL

HEATHERBRAE NSW 2324 File Name: HRHS-STNC-XX-XX-DR-C-403001.DWG CPO JMB JMB 2022.07.29 Dwn. Dsgn. Chkd. YYYY.MM.DD ROADS TYPICAL SECTIONS

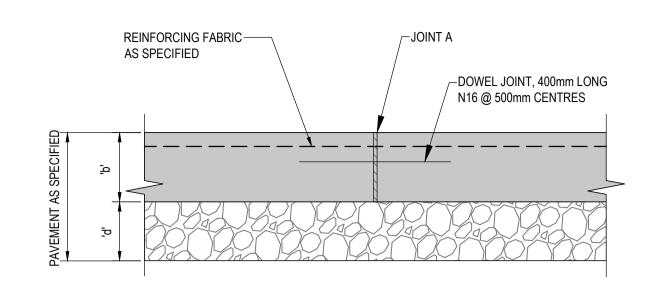
Project No. Scale 1:20 Revision Drawing No. HRHS-STNC-XX-XX-DR-C-403001



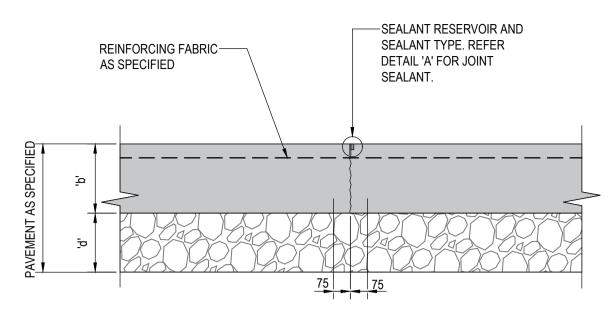
HOURS MAX. OF POURING SLAB) JOINT SEALANT DETAIL 'A' 1:1

'BOSTIC-FINDLAY SEAL-N-FLEX EC' OR-PARCHEM EMER-SEAL PU 40' HYDROCARBON RESISTANT SEALANT TO BE STRICTLY SUPPLIED AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS BY A SPECIALIST CONTRACTOR BOND BREAKING STRIP-EXPANDING FILLER-**BOARD**

JOINT SEALANT DETAIL 'B'



EXPANSION JOINT (EJ) DETAIL (SCALE 1:10)



SAWN CONTRACTION JOINT

REINFORCING FABRIC-

AS SPECIFIED

SHOWN AS 'SCJ' ON PLAN

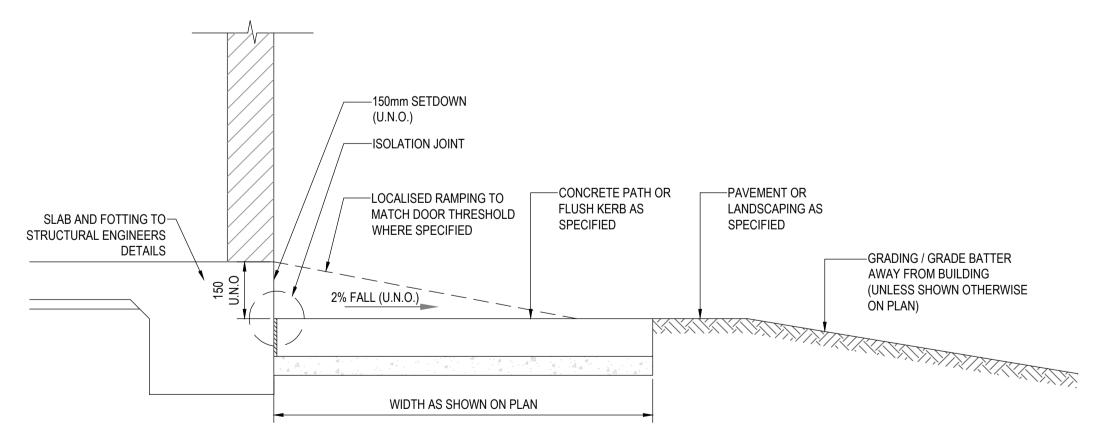
N.T.S 'd'= SUBBASE THICKNESS TO MATCH DEPTH OF PAVEMENT SUBBASE, BUT NOT LESS

THAN 30

THAN 30

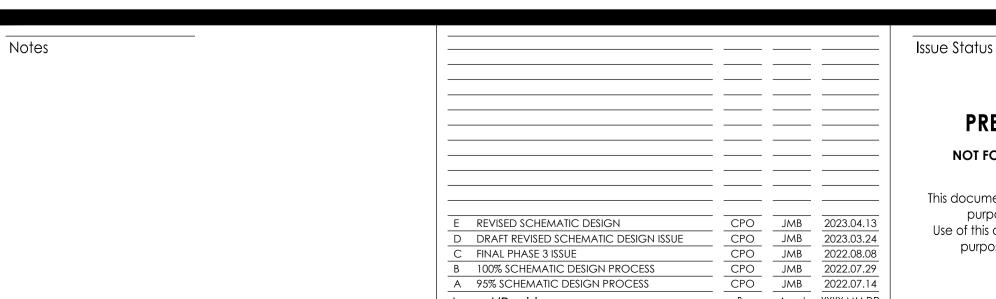
 $W \times 4$ W x 1 $W \times 1$ W x 1 W x 1 W x 1 B W=|WIDTH OF PATH

CONCRETE TO HAVE BROOM FINISH WITH SMOOTH TROWELLED EDGES. SCJ- FOOTPATH SAWCUT JOINT. REFER TO DETAIL



TYPICAL BUILDING PERIMETER/ SET DOWN

By Appd YYYY.MM.DD



B 100% SCHEMATIC DESIGN PROCESS

A 95% SCHEMATIC DESIGN PROCESS

Issued/Revision

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Client/Project Logo Education
School Infrastructure

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ROADS DETAILS SHEET 2

HUNTERS RIVER HIGH SCHOOL

HEATHERBRAE NSW 2324

Project No. Revision Drawing No. File Name: HRHS-STNC-XX-XX-DR-C-406001.DWG CPO JMB JMB ######### Dwn. Dsgn. Chkd. YYYY.MM.DD

1:10 HRHŠ-STNC-XX-XX-DR-C-406002

Scale

-LINE OF WALL, FOOTING, COLUMN, KERB, DISHDRAIN,

GRATED DRAIN, BOLLARD

FOOTINGS OR OTHER FORM

TYPICAL JOINT PLAN FOR FOOTPATHS AND MEDIANS

EJ- FOOTPATH EXPANSION JOINT. REFER TO DETAIL

OF BLOCKOUT -10 THICK **EXPANDING FILLER** BOARD TYPICAL ISOLATION JOINT DETAIL SHOWN AS 'IJ' ON PLAN N.T.S NOTE: TO ALSO BE CONSTRUCTED IN LOCATIONS WHERE CONCRETE PAVEMENTS ABUT FORMS OF BLOCKOUT AS SPECIFIED BY THIS ISOLATION JOINT DETAIL.

1 x N12---

FOR VEHICULAR CONCRETE PAVEMENTS—

REFER DETAIL 'B' FOR JOINT SEALANT.

-SEALANT RESERVOIR AND SEALANT TYPE. REFER DETAIL 'A' FOR JOINT SEALANT. PAVEMENT AS SPECIFIED-50 TYP -FABRIC WHERE-SPECIFIED STOP SLAB REINFORCEMENT-AT END OF DOWEL WITH 1x N12 LONGITUDINAL BAR EACH SIDE DRILL AND PLACE DOWELS-WHERE ABUTTING EXISTING SLAB HALF DOWEL LENGTH APPLY 2 COATS BOND LONG AT 300 CTRS BREAKER TO FIRST POURED SLAB OR EXISTING SLAB WHERE APPLICABLE

'd'= SUBBASE THICKNESS TO MATCH DEPTH OF PAVEMENT SUBBASE, BUT NOT LESS

DOWELLED CONSTRUCTION JOINT (CONSTRUCTION AT POUR END) SHOWN AS 'DCJ' ON PLAN

'd'= SUBBASE THICKNESS TO MATCH DEPTH OF PAVEMENT SUBBASE, BUT NOT LESS THAN 30

ORIGINAL SHEET - ISO A1 COORD - MGA/YY-Zone DATUM - mAHD

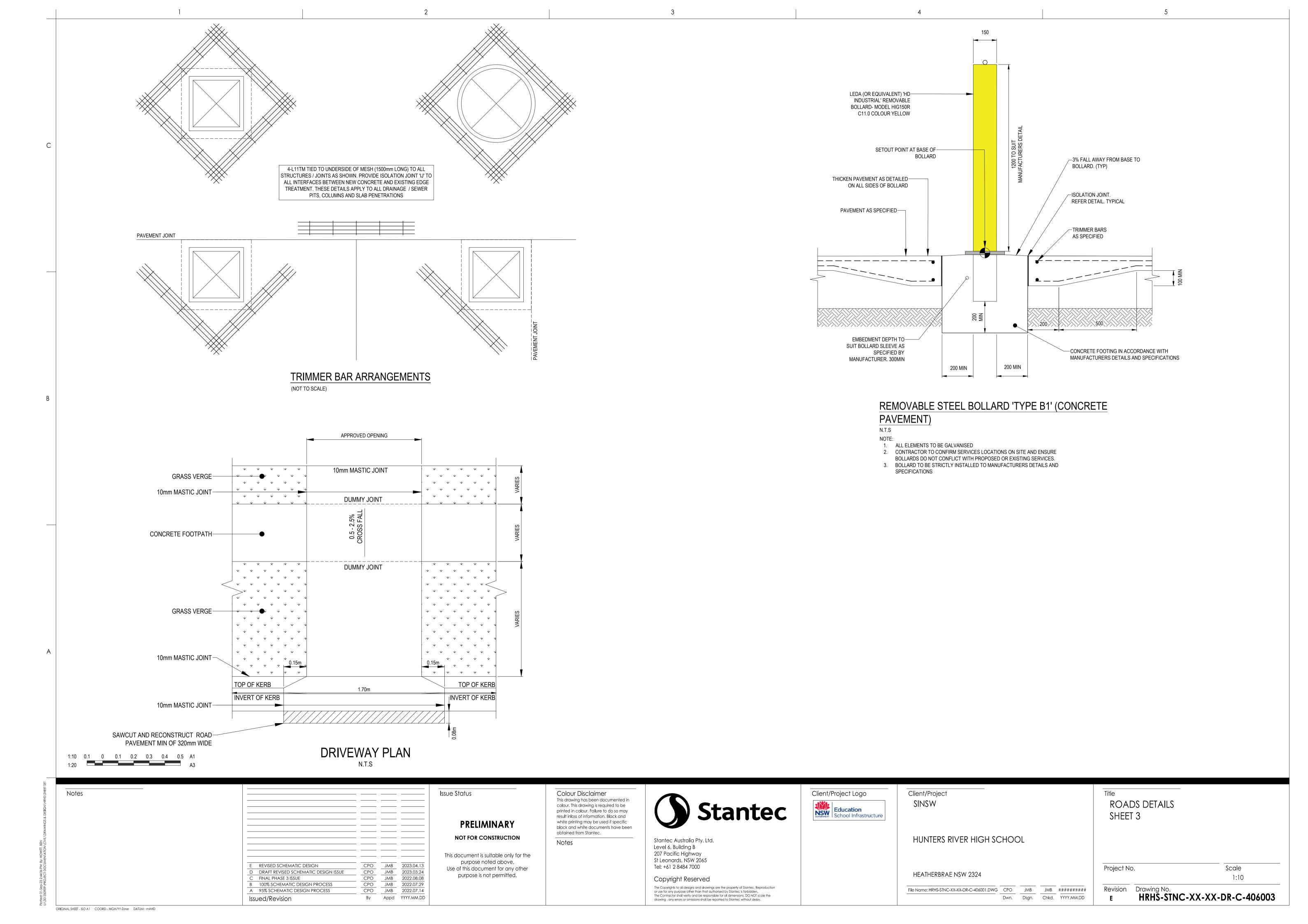
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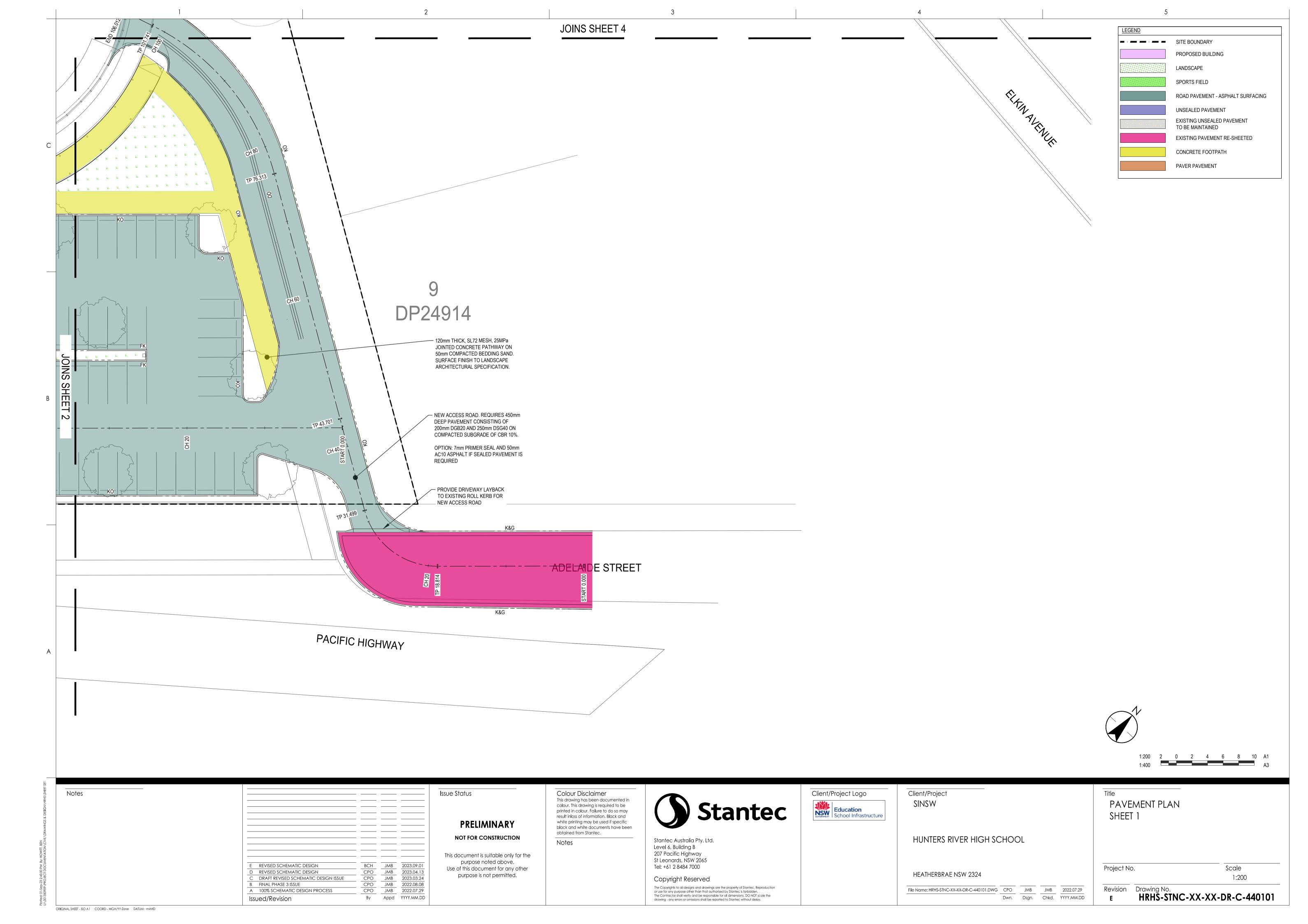
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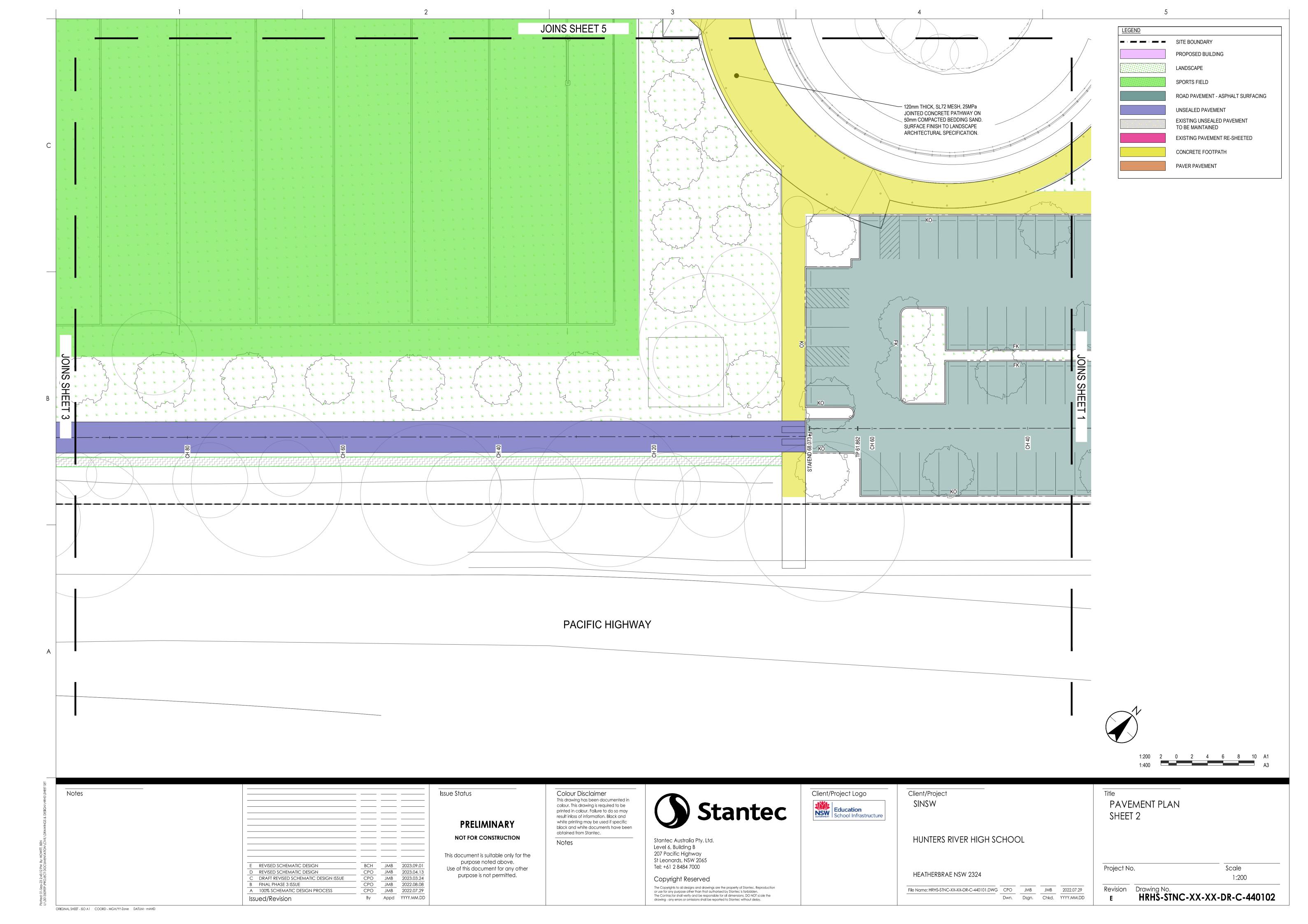
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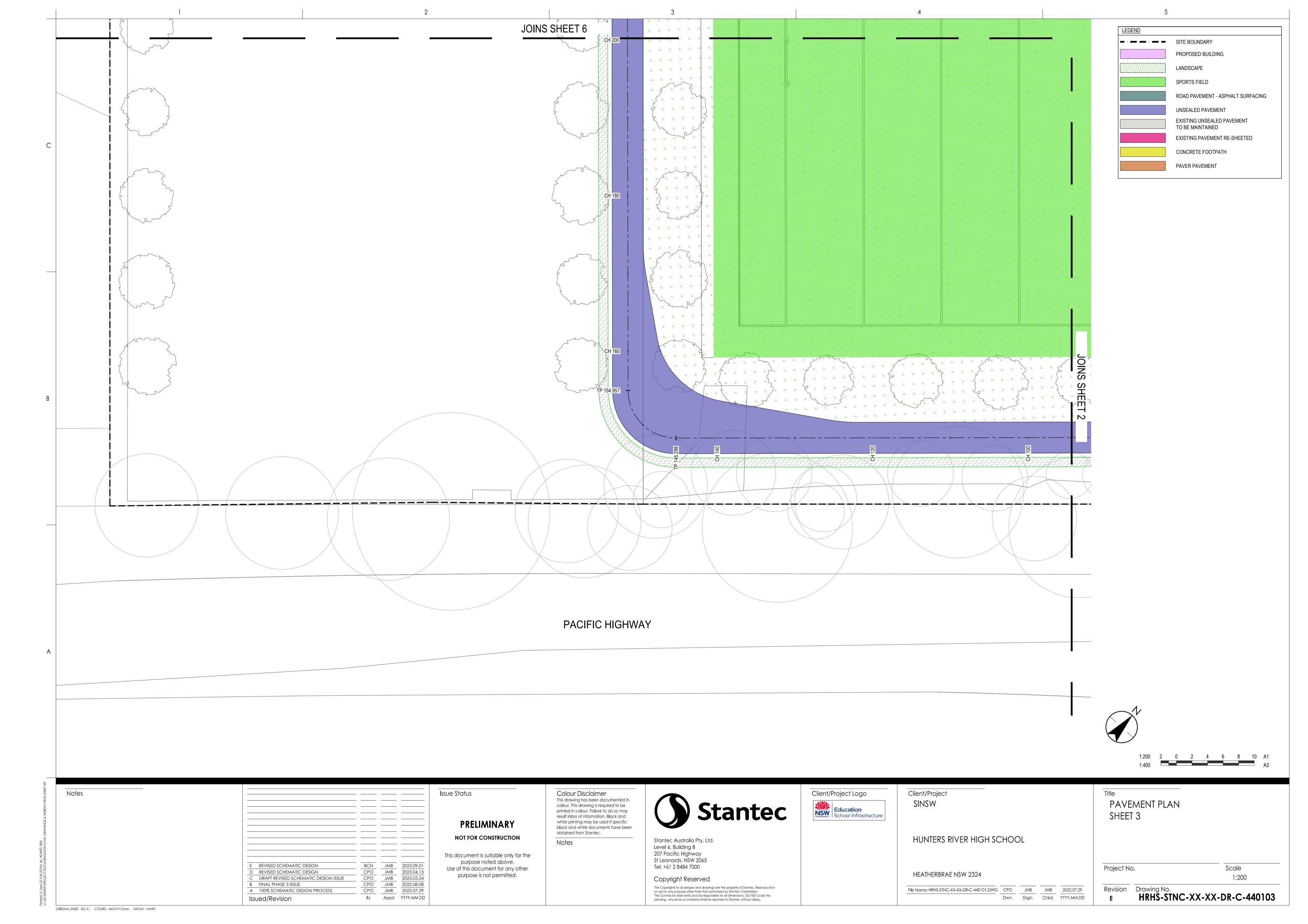
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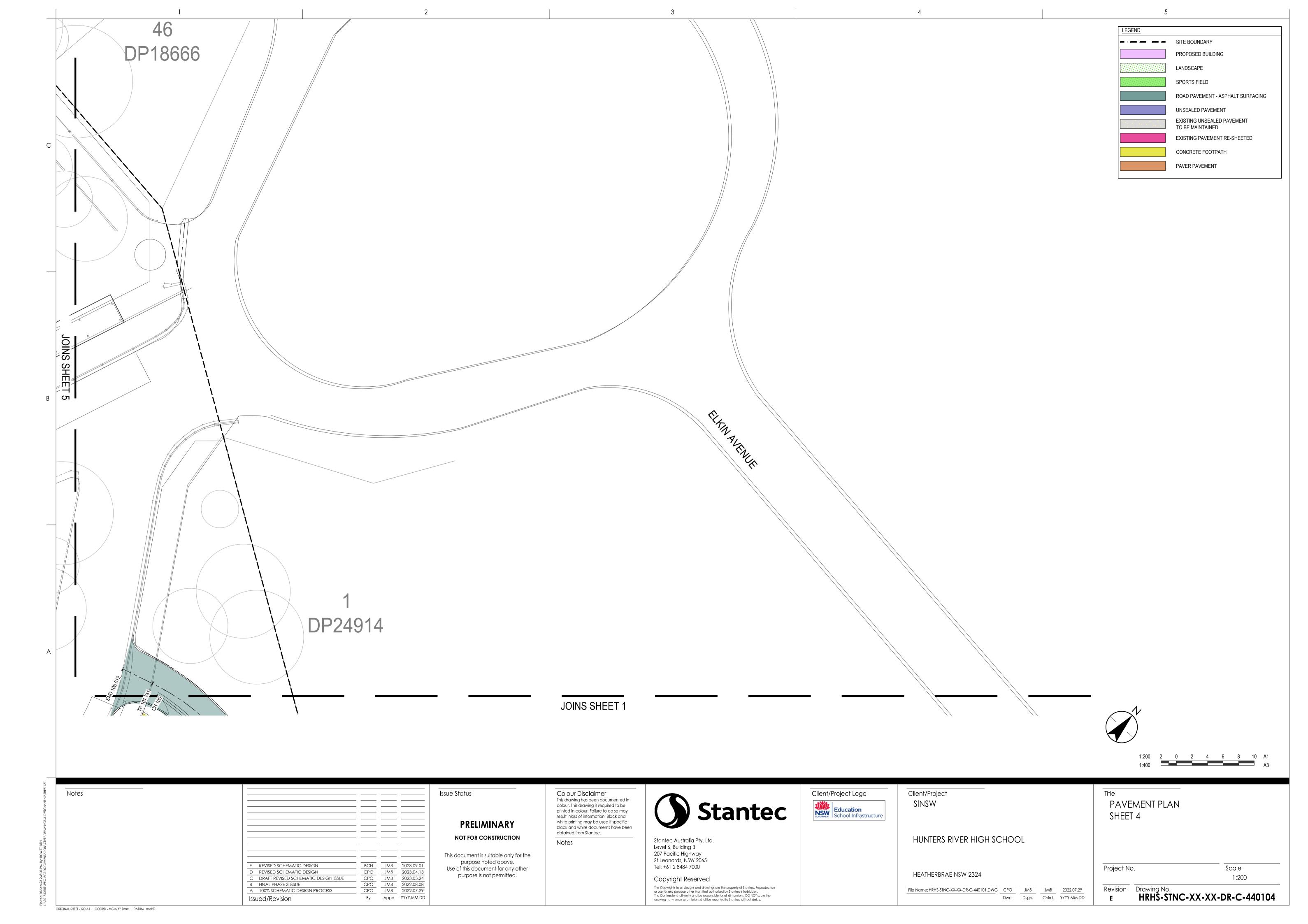
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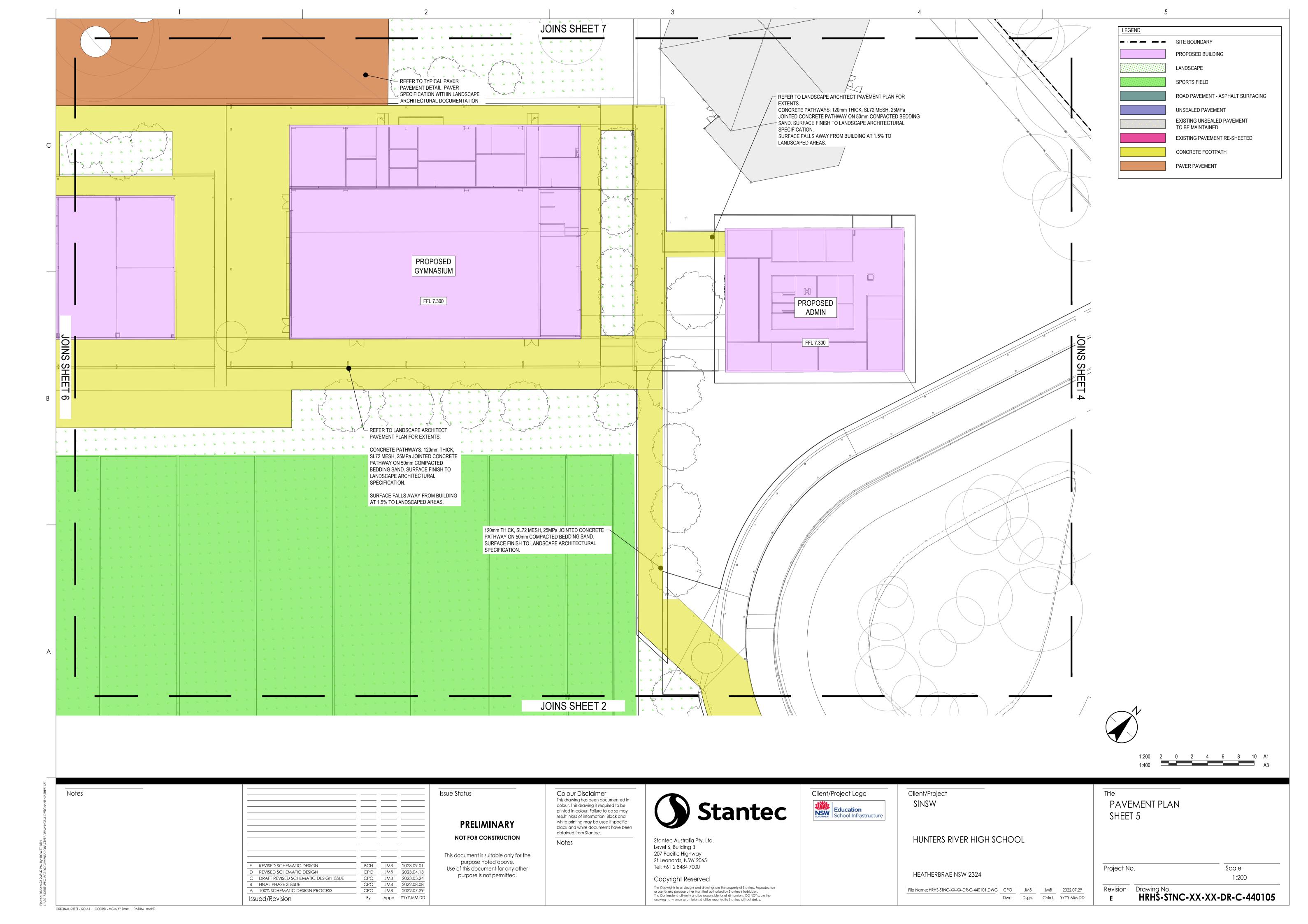


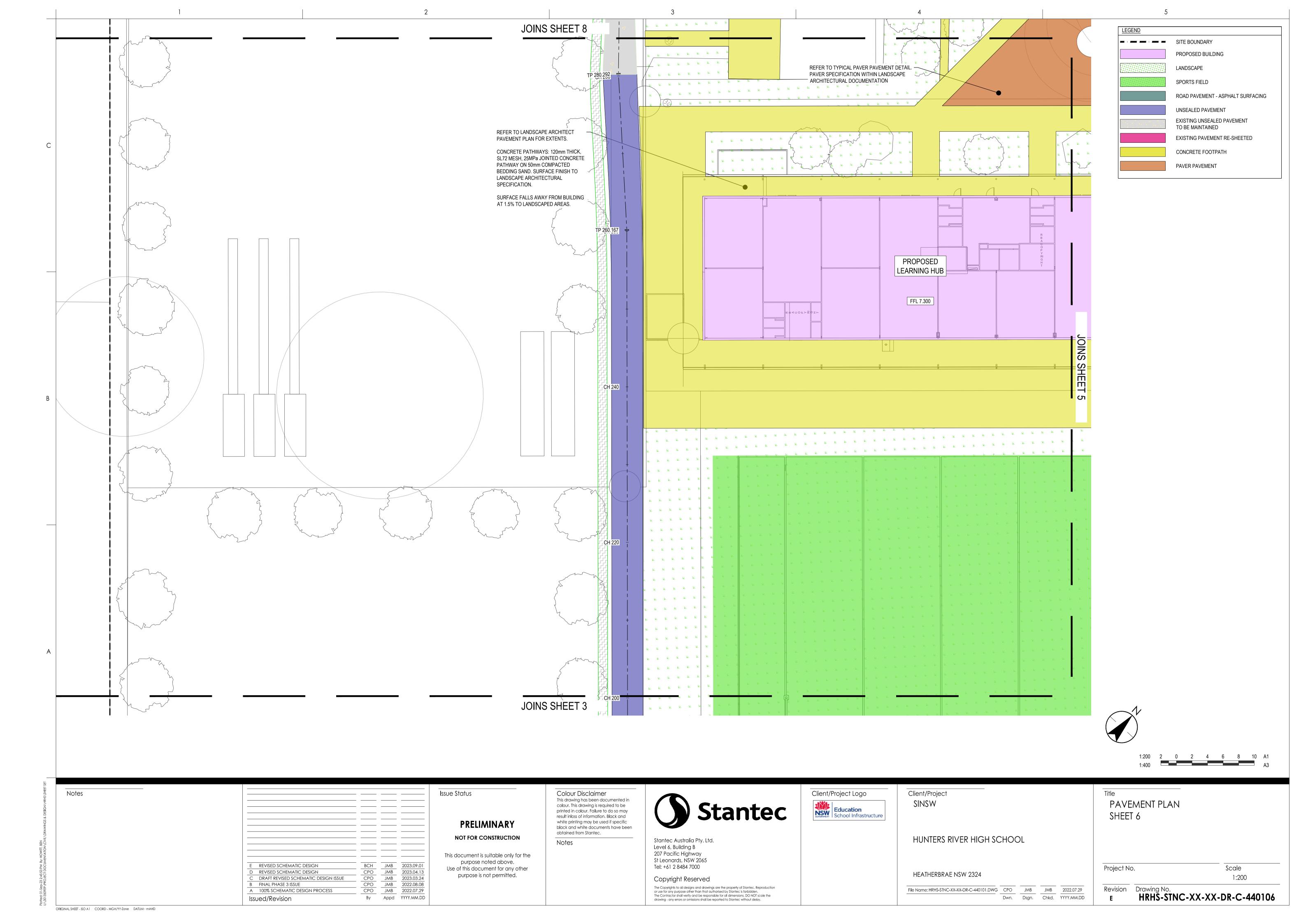


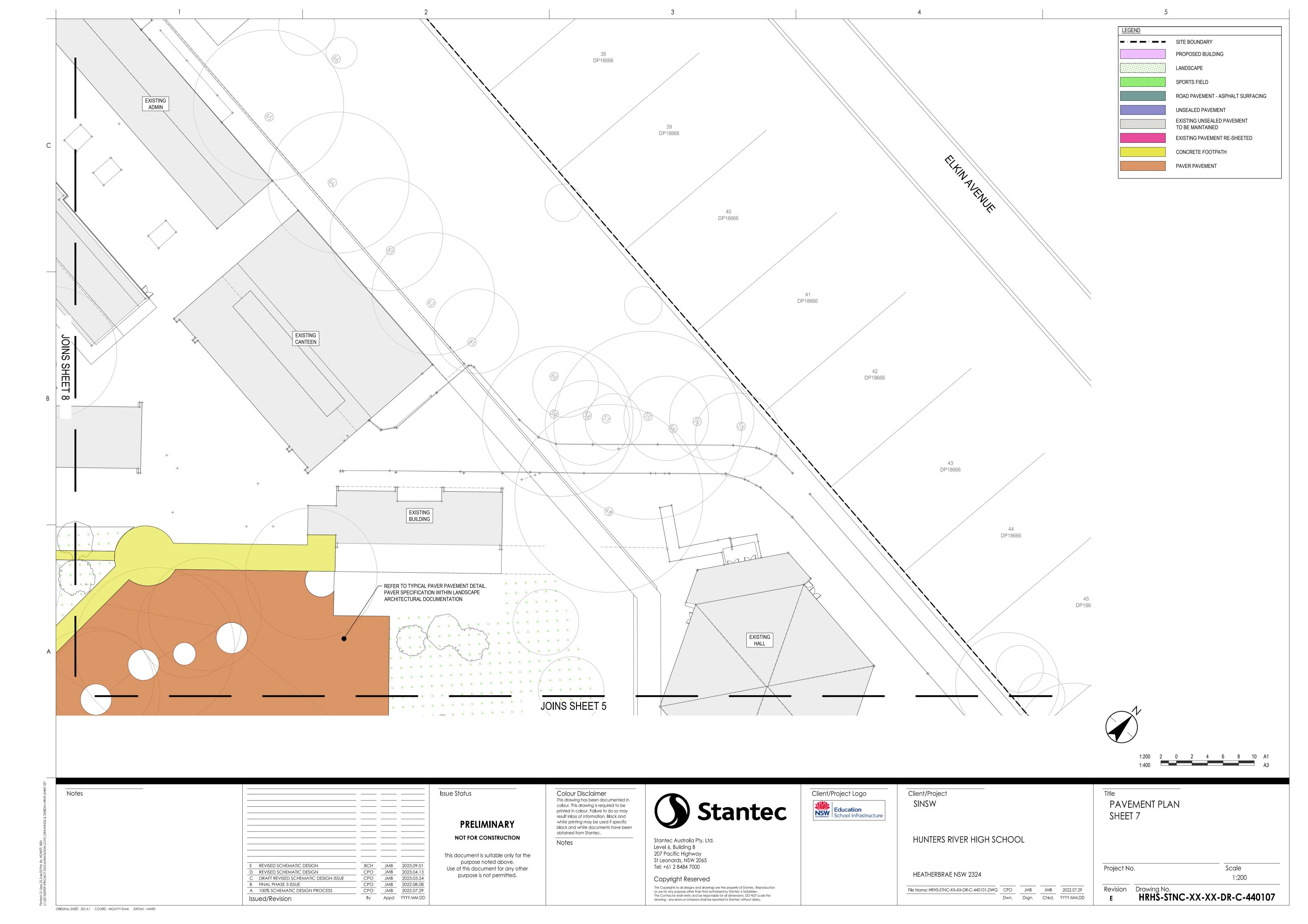


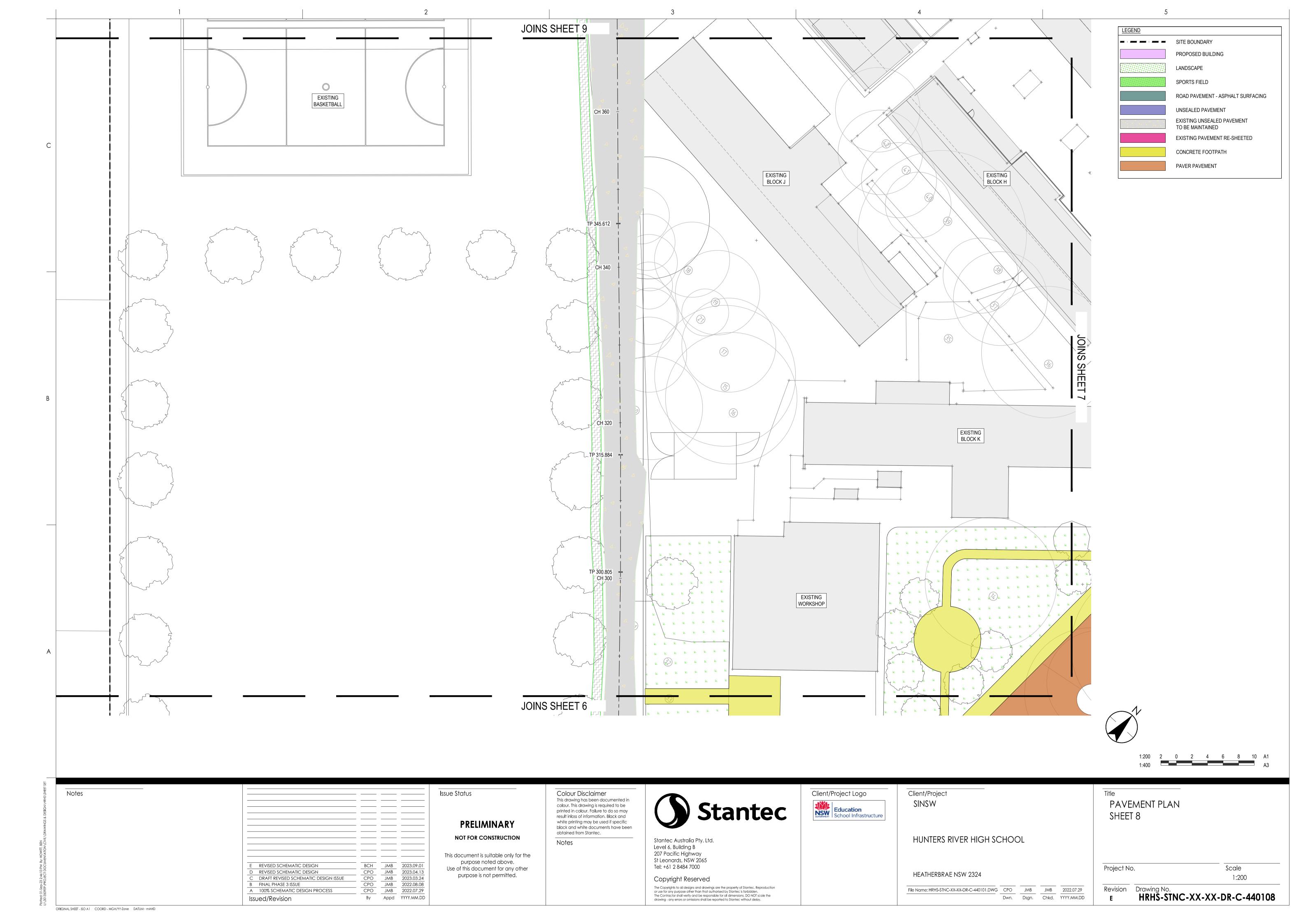




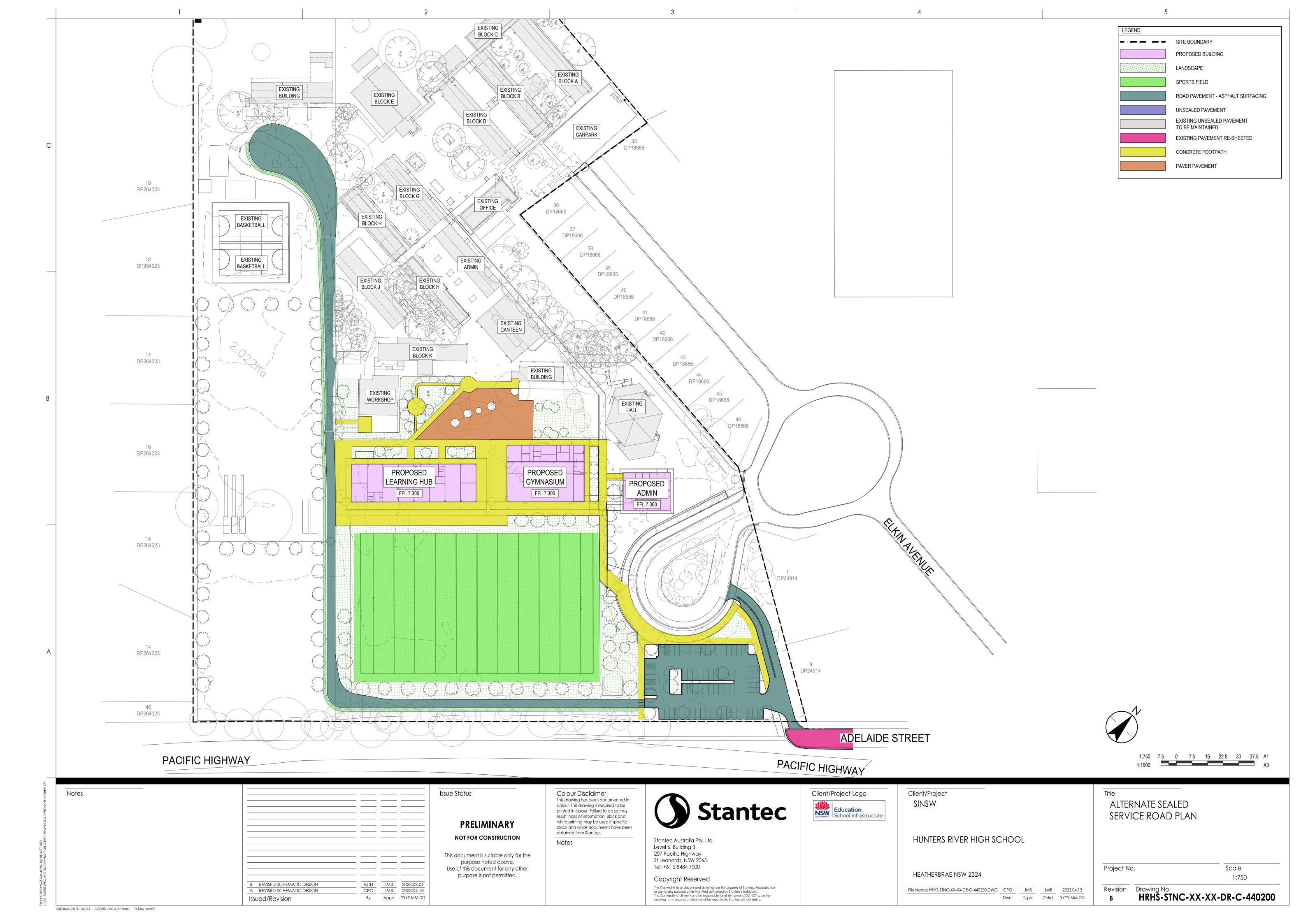


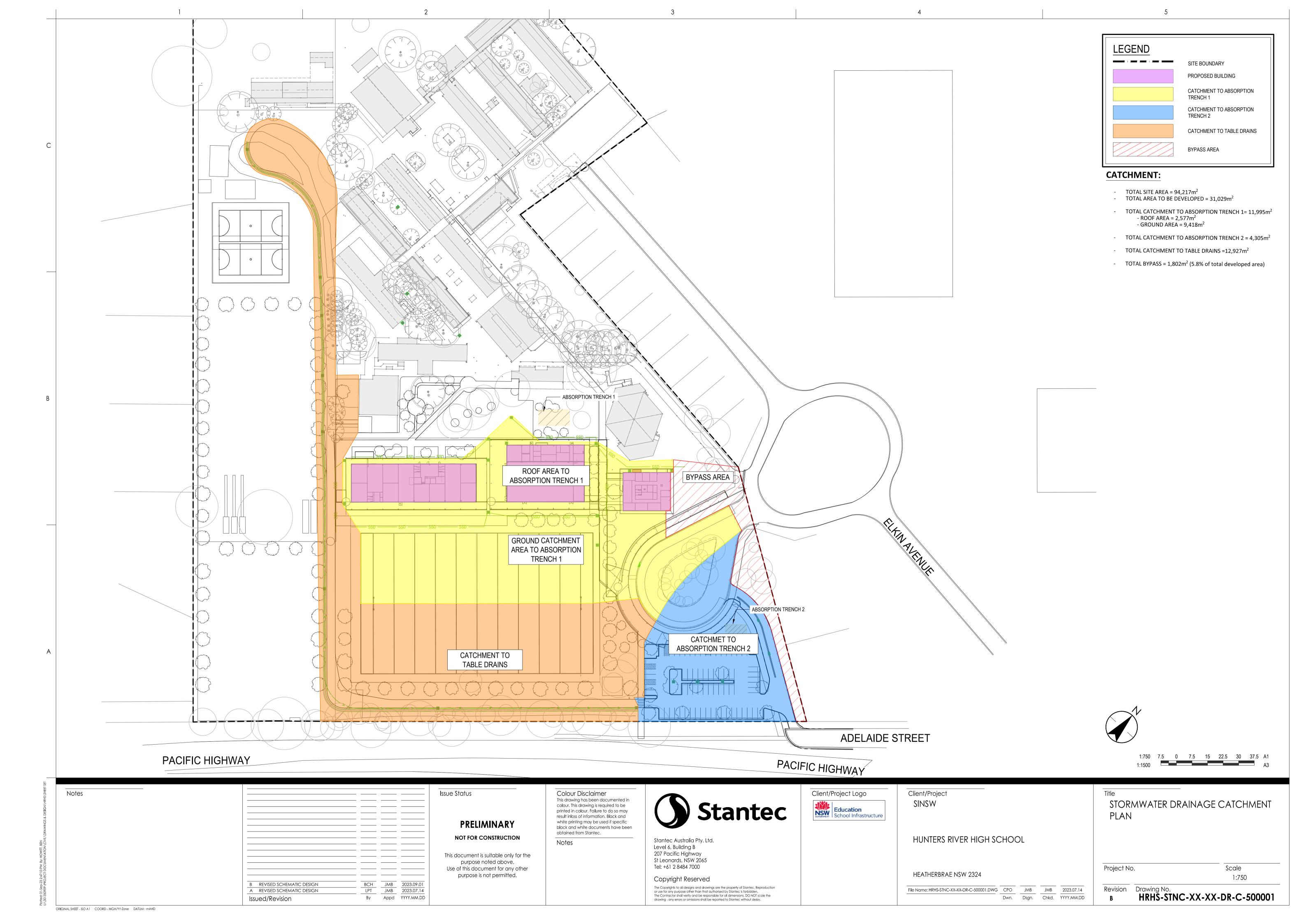


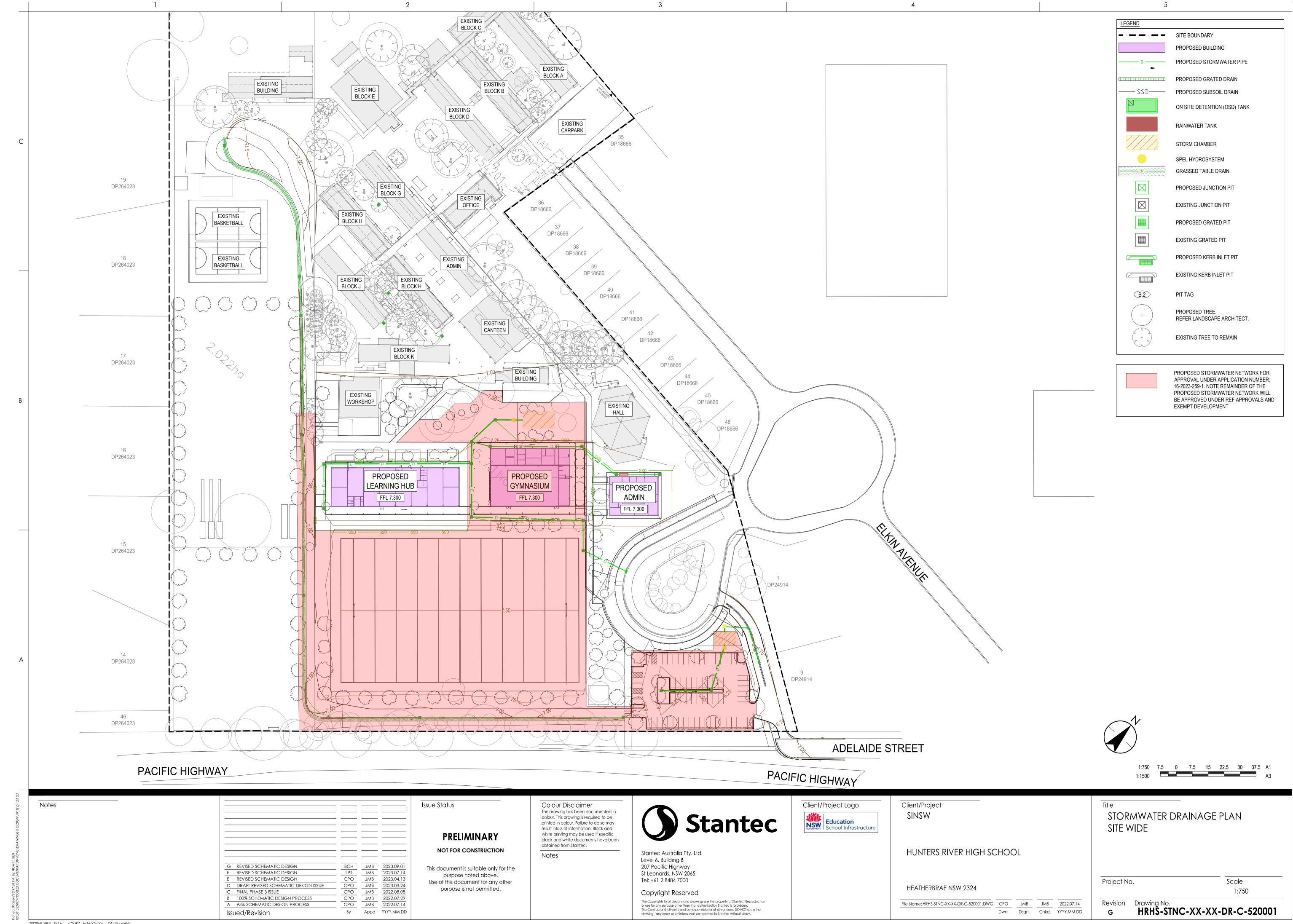


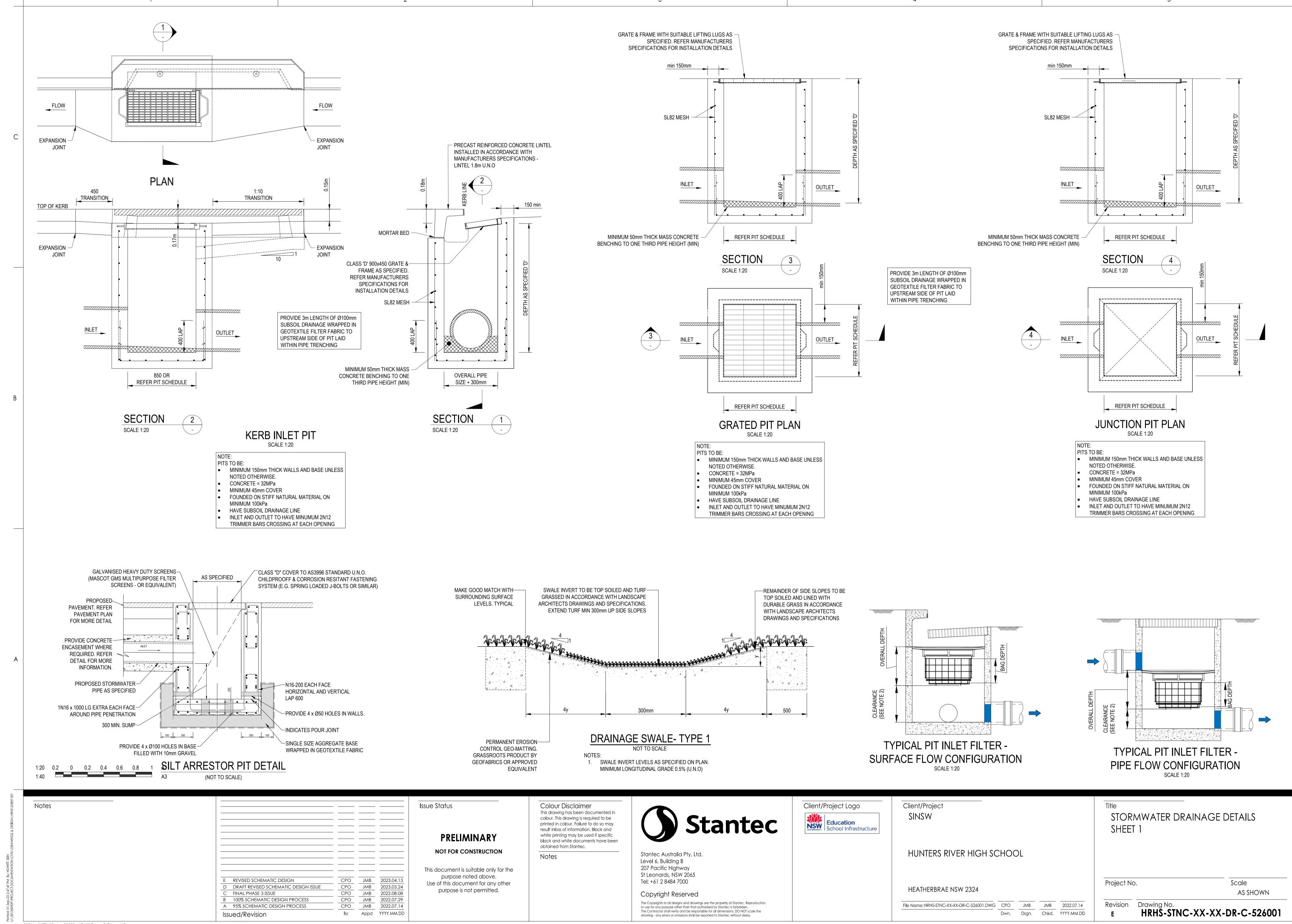




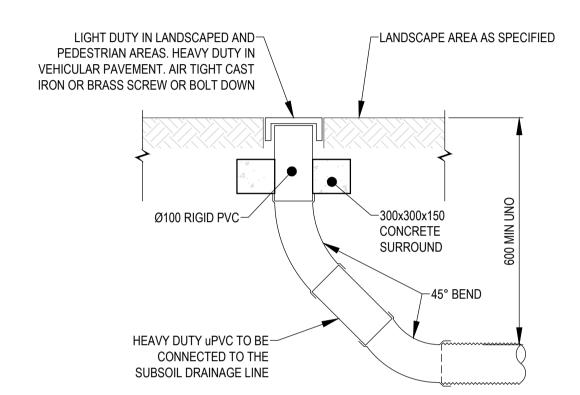




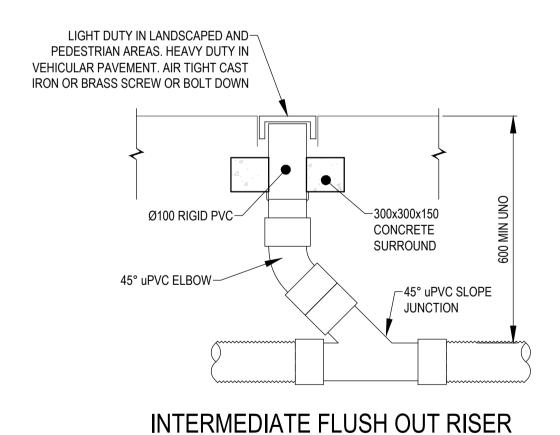


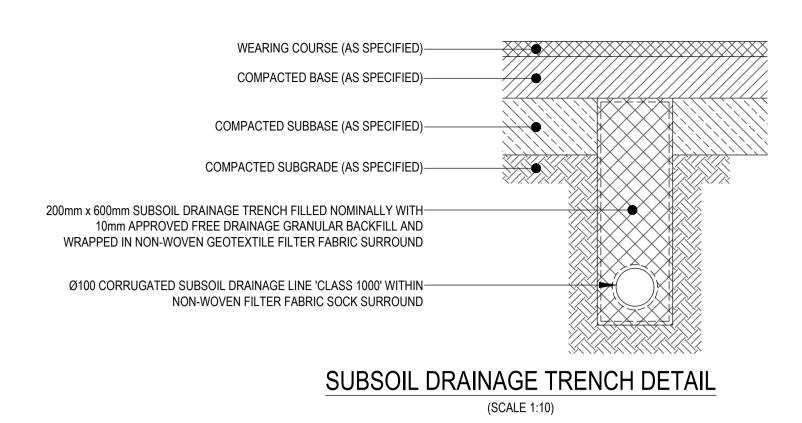


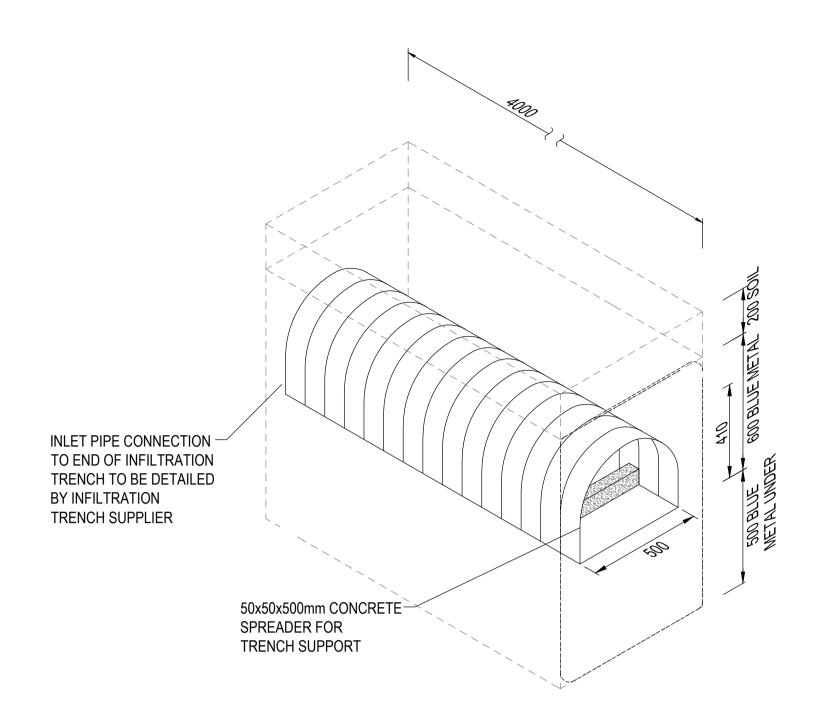
FLUSH OUT RISER IN PAVED AREAS (SCALE 1:10)

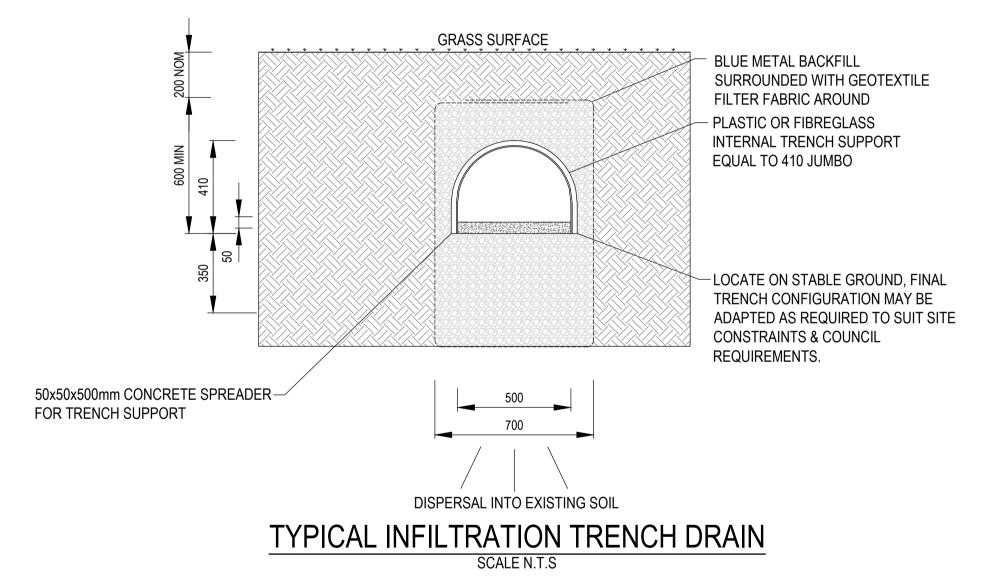


FLUSH OUT RISER IN LANDSCAPED AREAS (SCALE 1:10)

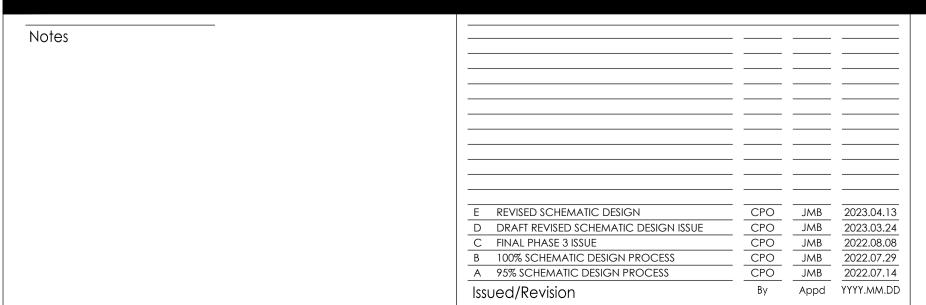








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Dwn. Dsgn. Chkd. YYYY.MM.DD

HUNTERS RIVER HIGH SCHOOL

HEATHERBRAE NSW 2324 File Name: HRHS-STNC-XX-XX-DR-C-526001.DWG CPO JMB JMB 2022.07.14 STORMWATER DRAINAGE DETAILS SHEET 2

Project No.

Revision Drawing No.

Scale as shown

HRHS-STNC-XX-XX-DR-C-526002

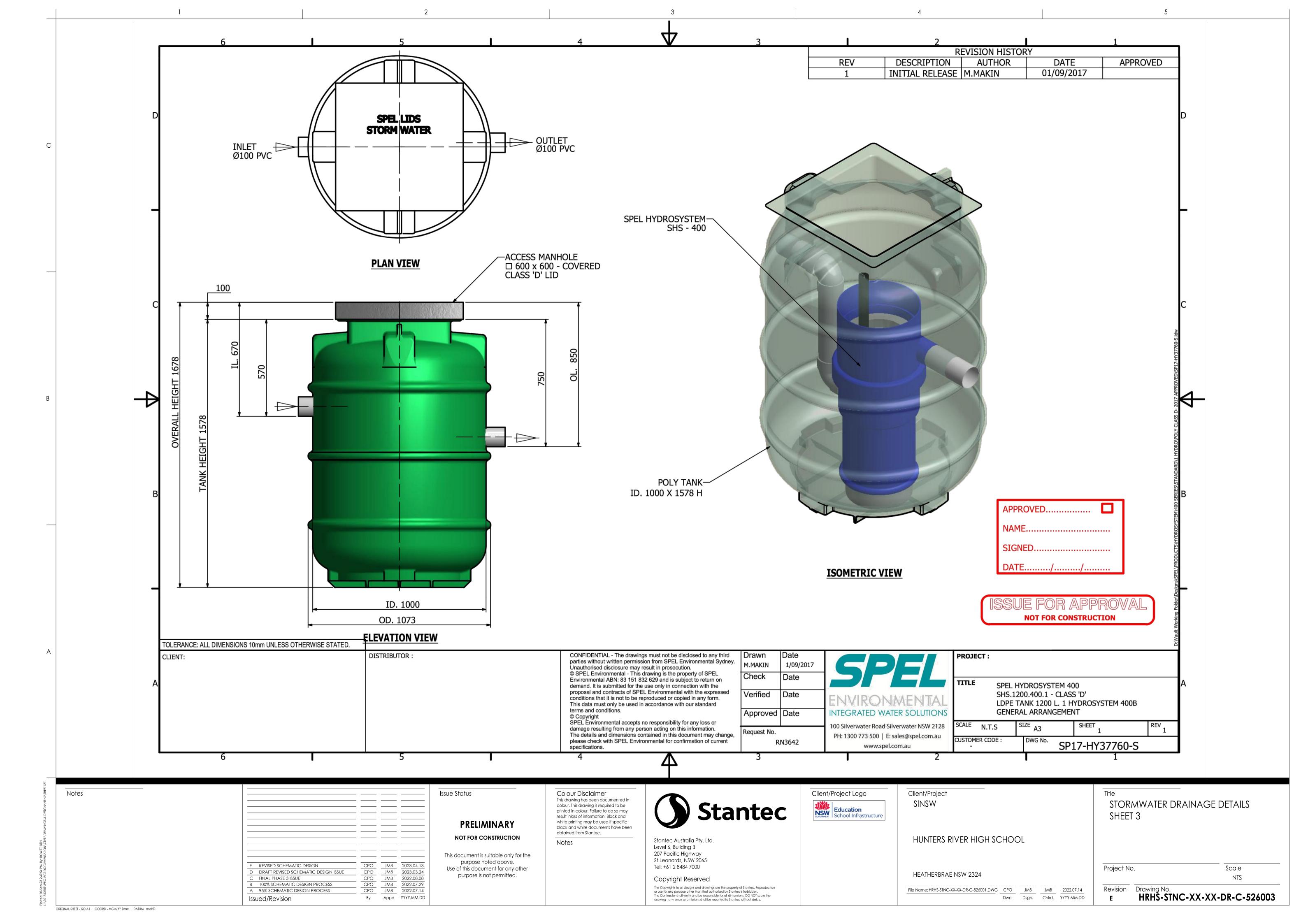
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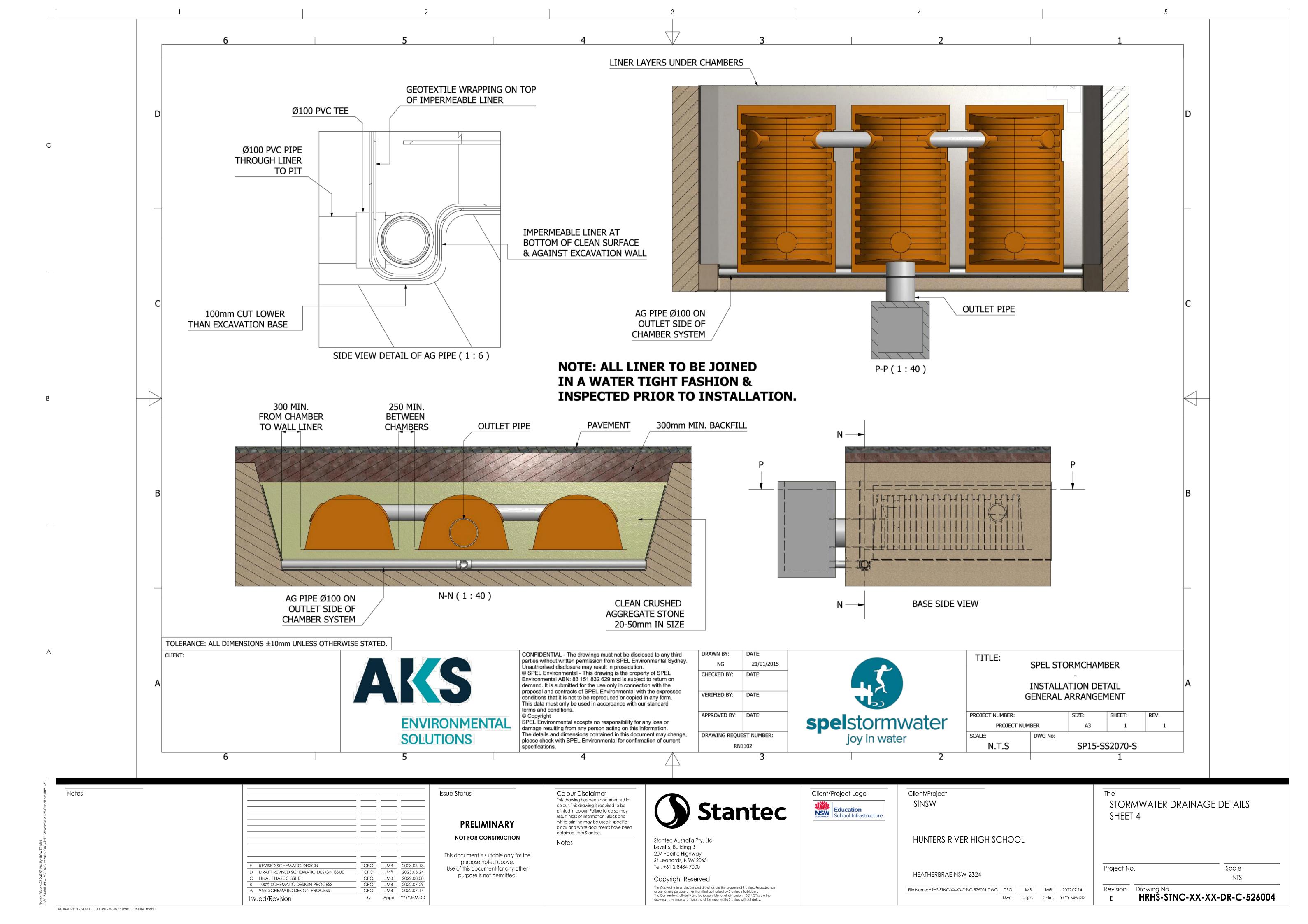
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STORMWATER PIT SCHEDULE SURFACE LEVEL (m PIT INTERNAL PIT NAME INVERT LEVEL (m AHD) PIT DEPTH (m) PIT DETAILS AHD) DIMENSIONS (mm) 7.280 6.680 0.600 GRATED INLET PIT WITH HEEL GUARD GRATING 01\01 900x900 GRATED INLET PIT WITH HEEL GUARD GRATING 01\02 7.280 6.452 0.828 900x900 7.000 6.374 0.626 02\01 900x900 KERB INLET PIT SINGLE GRATE 1.8m LINTEL 02\02 6.124 0.876 7.000 900x900 GRATED INLET PIT 02\03 7.180 5.961 1.219 GRATED INLET PIT WITH HEEL GUARD GRATING 900x900 03\01 7.200 5.408 1.792 GRATED INLET PIT WITH HEEL GUARD GRATING 900x900 2.014 03\02 7.150 5.136 900x900 GRATED INLET PIT WITH HEEL GUARD GRATING 6.910 5.013 1.897 GRATED INLET PIT WITH HEEL GUARD GRATING 03\03 900x900 03\04 6.900 4.838 2.062 GRATED INLET PIT WITH HEEL GUARD GRATING 900x900 7.280 6.680 0.600 GRATED INLET PIT 04\01 900x900 04\02 7.280 6.415 0.865 900x900 GRATED INLET PIT 6.182 1.098 04\03 7.280 900x900 GRATED INLET PIT WITH HEEL GUARD GRATING 1.551 04\04 7.280 5.729 GRATED INLET PIT WITH HEEL GUARD GRATING 900x900 05\01 5.510 0.900 6.410 900x900 KERB INLET PIT SINGLE GRATE 1.8m LINTEL 1.200 05\02 6.530 5.330 900x600 DISH DRAIN BUTTERFLY PIT 05\03 6.700 5.160 1.540 900x600 DISH DRAIN BUTTERFLY PIT 06\01 6.050 5.450 0.600 900x900 GRATED INLET PIT 06\02 6.160 5.335 0.825 900x900 GRATED INLET PIT

0.860

GRATED INLET PIT

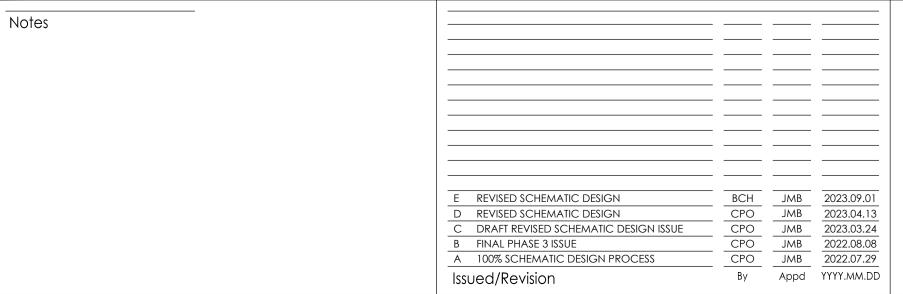
900x900

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6.080

06\03

5.220



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Education School Infrastructure

Client/Project Logo

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SINSW

HEATHERBRAE NSW 2324

STORMWATER DRAINAGE PIT SCHEDULE

HUNTERS RIVER HIGH SCHOOL

File Name: HRHS-STNC-XX-XX-DR-C-527001.DWG CPO JMB JMB 2022.07.29

Dwn. Dsgn. Chkd. YYYY.MM.DD

Project No.

Scale as shown Revision Brawing No. HRHS-STNC-XX-XX-DR-C-527001