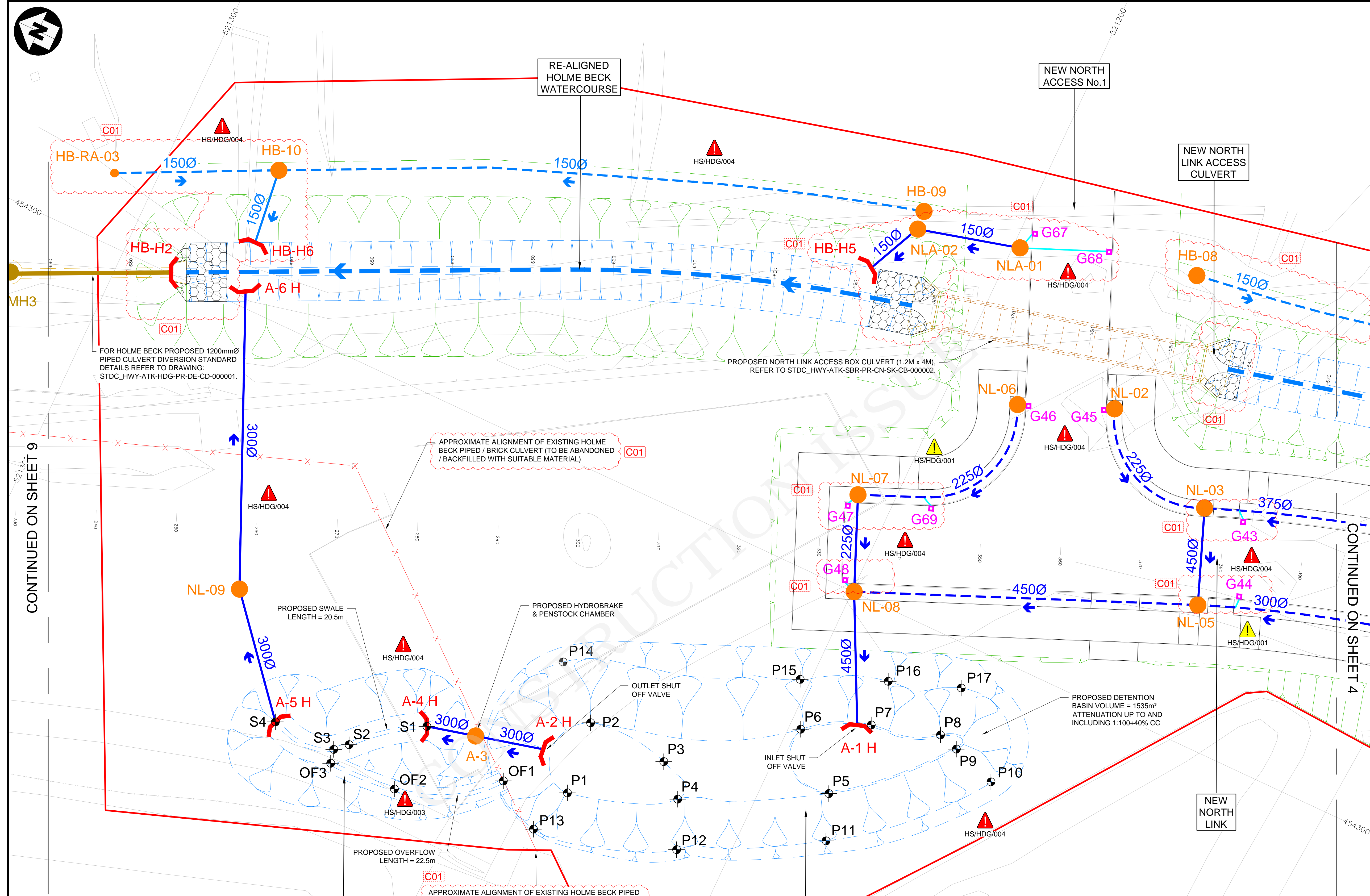
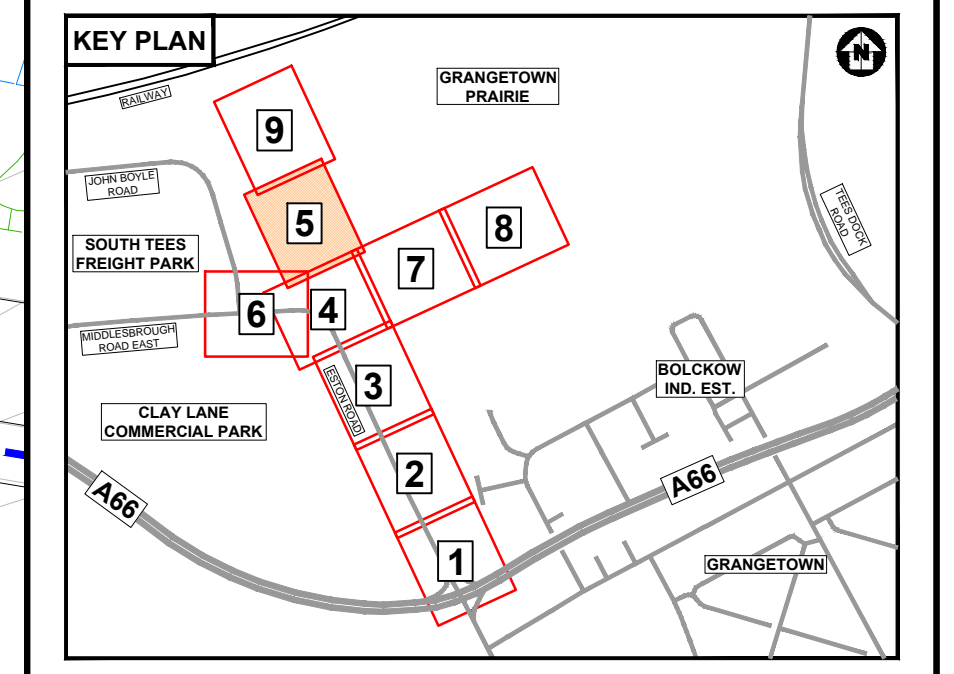


DO NOT SCALE  
0 10 100  
Millimetres



- NOTES:**
- DO NOT SCALE FROM THIS DRAWING.
  - ALL PIPE DIAMETERS ARE IN MM.
  - FOR KEY & GENERAL SCHEME NOTES, REFER TO STDC\_HWY-ATK-HDG-PR-DR-CD-000001
  - ALL CHAMBERS TO BE TYPE 7 CATCHPITS TO HCD F11.
  - ALL GULLIES TO BE TRAPPED TO HCD F13.
  - UTILITY ROUTES SHOWN ARE INDICATIVE - PLEASE REFER TO PUBLIC UTILITIES DRAWING SERIES 'VUT' TO IDENTIFY ANY APPARATUS SHOWN ON THIS DRAWING.
  - DRAINAGE HAS BEEN DESIGNED TO HIGHWAYS ALIGNMENT DESIGN MODEL 'P09'.
  - REFER TO DESIGN RISK REGISTER FOR RESIDUAL HEALTH & SAFETY RISKS.
  - FOR DETAILS OF BOX CULVERTS REFER TO DRAWINGS: STDC\_HWY-ATK-SBR-PR\_CN-SK-CB-000001 AND STDC\_HWY-ATK-SBR-PR\_CN-SK-CB-000002.
  - ALL DIMENSIONS ARE INDICATIVE AND ARE TO BE CONFIRMED PRIOR TO CONSTRUCTION ISSUE.
  - BOX CULVERT SECTION IS BASED UPON AGREED LEAD LOCAL FLOOD AUTHORITY (RCBC) AGREED DIMENSIONS.
  - CULVERT HEADWALL (INLET & OUTLET) ARRANGEMENT TO BE DETERMINED AS CONTRACTOR DESIGNED. ALLOWANCE SHOULD BE MADE FOR GRADIENT OF WATERCOURSE EARTHWORKS TIE-INS AS SHOWN.
  - DETAILED DESIGN MAY CHANGE PARAMETERS. CONFIRMATION OF LEVELS TO BE PROVIDED UPON COMPLETION OF EXISTING DRAINAGE SURVEYS AND SUBSEQUENT DESIGN OF THE PROPOSED HOLME BECK WATERCOURSE.
  - ALL STRUCTURE WORKS TO BE IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES AND ADHERE TO TEES VALLEY DESIGN GUIDE.
  - FOR HOLME BECK WATERCOURSE INFORMATION & GROUNDWATER FILTER PIPES, REFER TO DRAWING SERIES: STDC\_HWY-ATK-HDG-PR\_XS-DR-CD-000001 TO 000003.
  - ALL EXISTING GULLIES SHOWN TO BE REPLACED SHALL REQUIRE EXISTING GULLY CONNECTION PIPES TO BE ASSESSED FOR CONDITION PRIOR TO CONSTRUCTION.



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
FOR AGREEMENT	S3	P01	CE	JR	AF	---	07/12/20
ISSUED FOR REVIEW AND COMMENT	S3	P02	CE	JR	MT	---	06/02/21
UPDATED FOR DESIGN CHANGES FOR CONSTRUCTION ISSUE	A3	C01	MT	DS	DMA	DS	21/05/21

APPROVED - CONSTRUCTION A3

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**TEESWORKS**  
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Project Title: SOUTH TEES DEVELOPMENT CORPORATION

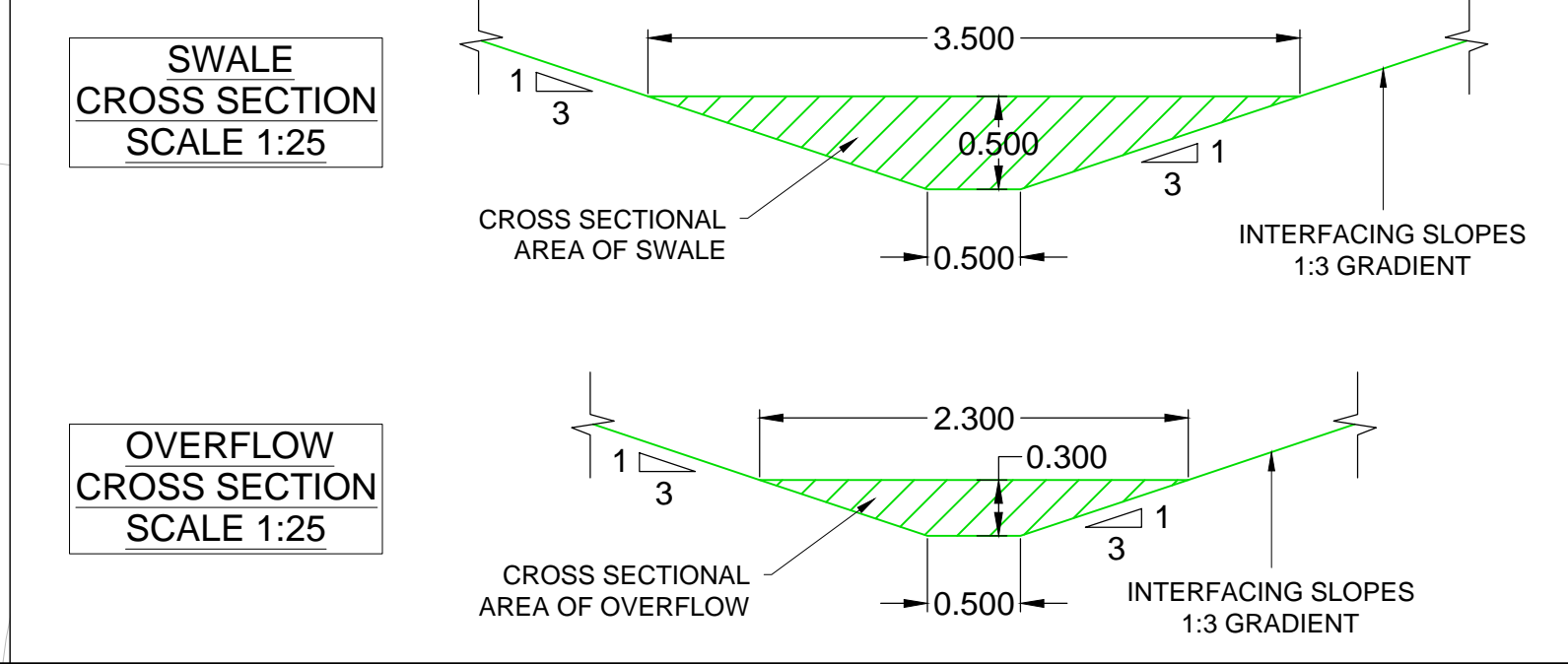
Drawing Title: DETAILED DESIGN of ESTON ROAD HIGHWAYS SCHEME PROPOSED DRAINAGE LAYOUT SHEET 5 OF 9

Drawing Number	Project	Originator	Volume
STDC_HWY - ATK - HDG - PR - DR - CD - 000006			
A1	Scale: 1:250	Project Ref. No. 5198022	Sheet: 5 of 9

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction	Maintenance / Cleaning	Use	Decommissioning / Demolition
HS/HDG/001 - EXISTING UTILITY APPARATUS HS/HDG/004 - DRAINAGE IN ASBESTOS CONTAINING GROUND	NONE	NONE	NONE



Setting Out information for SuDS Features

ID	Easting (m)	Northing (m)	Elevation (m)
<b>Detention Basin</b>			
P1	454262.338	521221.501	7.000
P2	454271.456	521222.583	7.000
P3	454270.919	521212.29	7.000
P4	454267.421	521208.741	7.000
P5	454275.991	521192.015	7.075
P6	454281.769	521198.556	7.075
P7	454285.958	521190.842	7.075
P8	454288.472	521182.514	7.075
<b>Swale</b>			
S1	454262.447	521240.841	6.882
S2	454256.291	521248.644	6.835
S3	454254.959	521250.125	6.826
S4	454254.989	521258.141	6.787
<b>Overflow</b>			
OF1	454260.322	521229.353	8.700
OF2	454253.677	521241.212	7.843
OF3	454253.234	521249.738	7.324