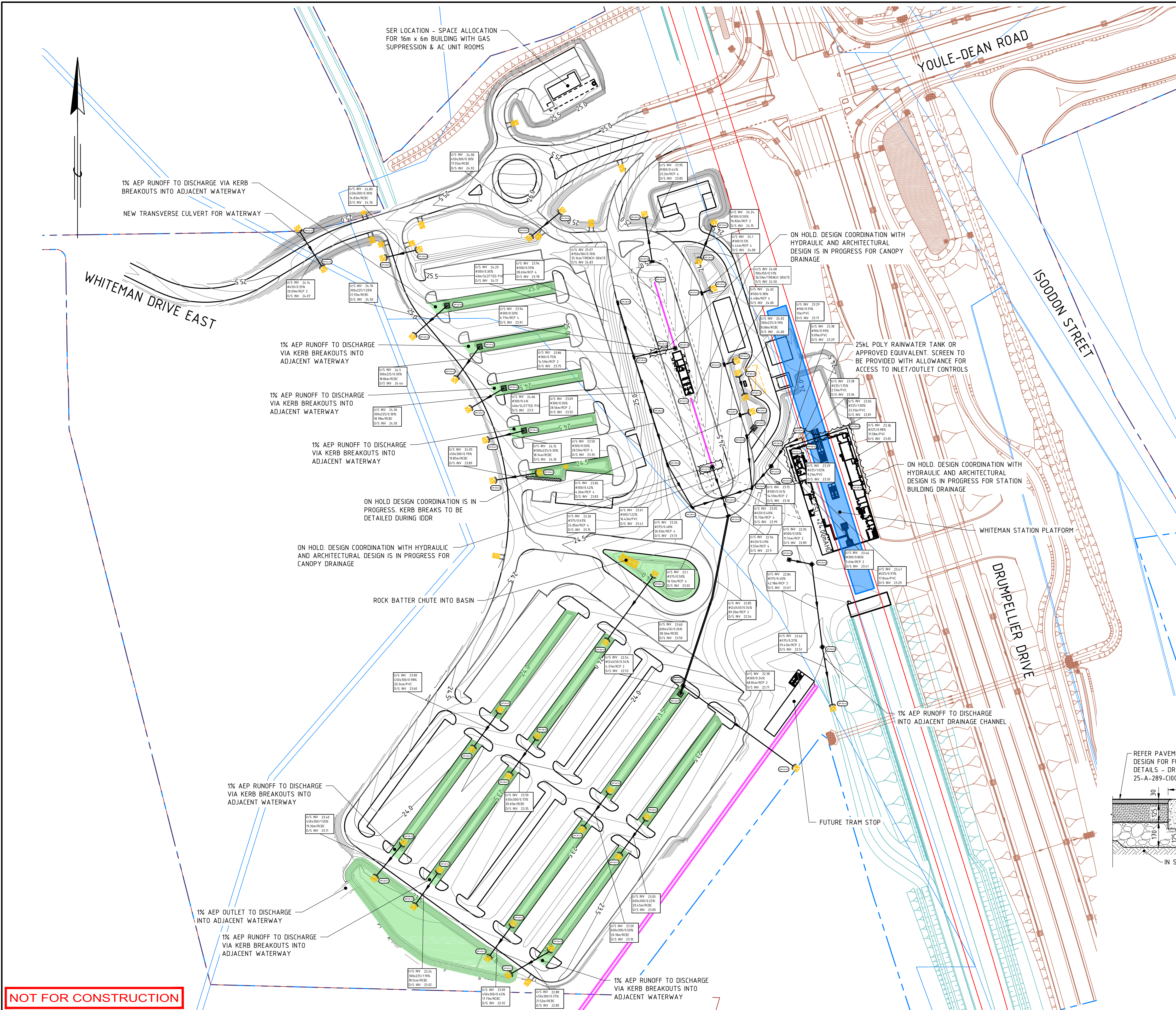


Appendix G – Preliminary Stormwater Design



NOTES

- THIS DRAWING SET IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWING SETS
 - PRECINCT ARCHITECTURAL (25-A-289-AR)
 - PRECINCT STRUCTURAL (25-A-289-ST)
 - PRECINCT LANDSCAPING (25-A-289-LA)
 - PRECINCT HYDRAULICS (25-A-289-PL)
 - LINEWIDE RAIL (25-C)
 - LINEWIDE HIGHWAYS (25-C)
- ALL DIMENSIONS ARE SHOWN IN METRES UNLESS OTHERWISE NOTED.
- THE PROPOSED SURFACE HAS BEEN DESIGNED TO ENSURE THAT SURFACE WATER RUNOFF RESULTING FROM THE MAJOR STORM EVENT (1% AEP) WILL NOT IMPACT CRITICAL INFRASTRUCTURE.
- THE DESIGN GROUNDWATER LEVEL FOR THIS SITE VARIES FROM +24.4m AHD TO +22.0m AHD (GENERALLY INCREASING SOUTH TO NORTH). REFER TO GROUNDWATER MODEL XR25C_00_AEP002.
- A DESIGN PERMEABILITY VALUE OF 3.5×10^{-5} m/s (3m/DAY) HAS BEEN ASSUMED BASED ON A REVIEW OF THE ADVISORY GEOTECHNICAL INVESTIGATION INTERPRETIVE REPORT MEL_ADV-GE-RPT-00008 (15/12/2020).
- FOR STATION AND BUS INTERCHANGE ROOF DRAINAGE REFER TO WHITEMAN PARK STATION HYDRAULICS DRAWINGS.
- HEADWALL END TREATMENT ROCK PITCHING IS FACING CLASS AS PER MRWA SPECIFICATION 406 UNLESS NOTED OTHERWISE. HEADWALL MORTAR ROCK PITCHING SHALL BE AS PER MRWA 200131-064 WITH ROCK PITCHING EXTEND FOR 1m BEHIND HEADWALL AND WINGWALLS AND AT OUTLETS INCLUDING TOE PROTECTION.
- DRAIN BLOCK ROCK PITCHING ARE MRWA SPECIFICATION 406 FOR LANDSCAPE: MORTARED ROCK PITCHING - 1m LONG x 200mm DEEP USING 150mm SIZE ROCKS.
- ALL CATCH PITS IN DRAINAGE SWALE / BIO-RETENTION / TREATMENT AREA ARE SOAKWELLS AND THE PITS IN THE BUS INTERCHANGE SHALL HAVE IMPERMEABLE LINERS.
- KERBING WITHIN THE BUS INTERCHANGE TO BE KASSEL KERB. TRANSITION FROM KERB TO PIT TO BE CONFIRMED PRIOR TO CONSTRUCTION.

LEGEND

- 64.5
- EXISTING CADASTRE BOUNDARY
- MODIFIED DUMPELLIER DRIVE
- LINEWIDE RAIL EARTHWORKS
- RAIL ALIGNMENT
- DEVELOPMENT ENVELOPE
- INDICATIVE PROJECT FOOTPRINT
- 18.0
- DRAINAGE SWALE / BIO-RETENTION / TREATMENT AREA
- PROPOSED MAJOR CONTOURS
- PROPOSED MINOR CONTOURS
- FUTURE TRAM LINE
- PROPOSED DRAINAGE PIPE, FLOW DIRECTION
- PROPOSED CATCHPIT/BUBBLE-UP PIT
- PROPOSED STREET GULLY
- PROPOSED MANHOLE PIT
- PROPOSED HEADWALL WITH ROCK PROTECTION
- ACO K1-0103 NEUTRAL TRENCH DRAIN OR APPROVED EQUIVALENT ABOVE GROUND DRAINAGE DETENTION STORAGE
- PROPOSED KERB OPENING WITH ROCK PITCHING
- PROPOSED DRAIN BLOCKS
- PROPOSED DRAINAGE PIT CALL-OUT

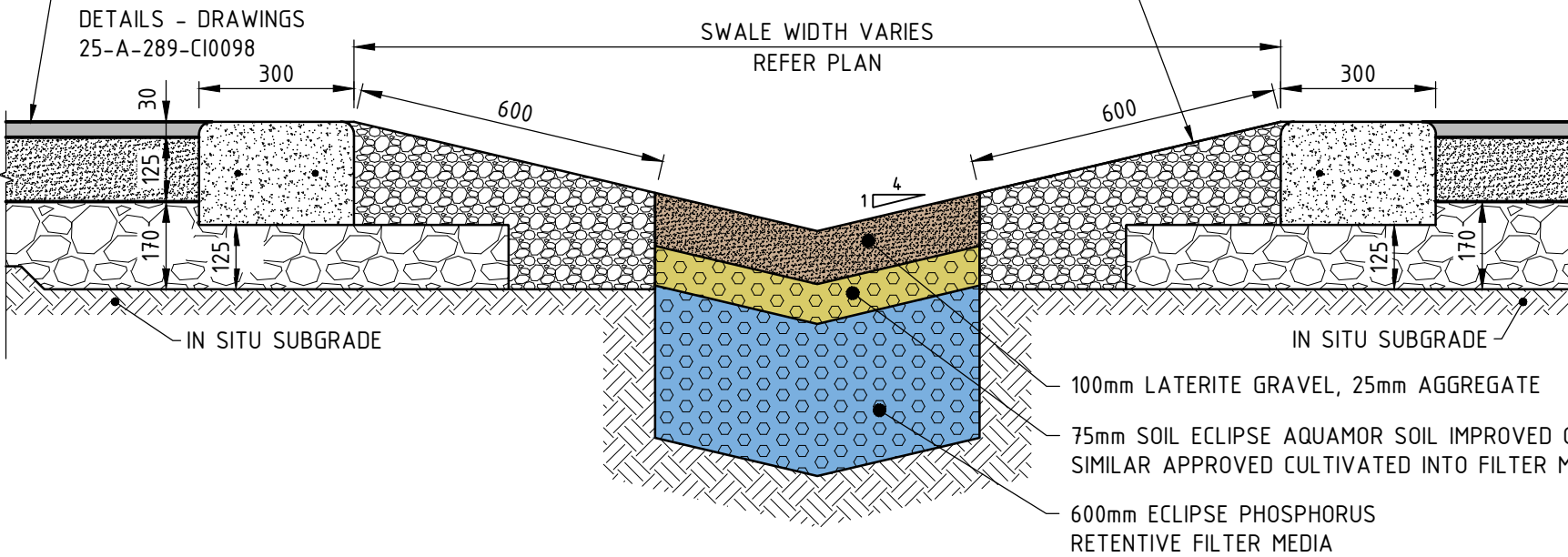
PIPE INFO

U/S INV 29.71m
Ø450 / 0.26%
4.27m / RCP 4
D/S INV 29.70m

UPSTREAM I.L.
SIZE / GRADE
LENGTH / PIPE CLASS
DOWNSTREAM I.L.

LATERAL STONE PITCHING 150 - 300mm ARRANGED TO ACHIEVE APPROXIMATE 25mm JOINT GAP AND PROTRUDE 75mm FROM MORTARED SURFACE TO PREVENT SCOURING. MORTAR BED MINIMUM 75mm.

REFER PAVEMENT DESIGN FOR FURTHER DETAILS - DRAWINGS 25-A-289-C10098



TYPICAL BIORETENTION SWALE DETAIL
NTS

NOT FOR CONSTRUCTION

REV	DATE	REFERENCE DESIGN	AMENDMENT	DSN	DRN	CHK	APP
A01	09.09.21	REFERENCE DESIGN		ST	AA	MM	MA
ORIG SIZE	0 10 20 30 40 50 100mm						
A1	AT ORIGINAL PLOT SIZE						

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REFERENCES		SCALE		DESIGNED	
XR25C_10_DRAINAGE_DES XR25C_10_PRECINCT_PLAN_DES XR25C_10_PR_CONTOURS_DES XR25C_10_DRAINAGE_PLAN		1:1000m		S.TOMIZZ	
		DATUM		DRAWN	
		HORIZONTAL: PCG2020 VERTICAL: AHD		A.ANTONYO	
				CHECKED	
				M.MONTEIRO	
				APPROVED	
				M.ARAVIND	
				DATE	
				09.09.21	

REFERENCE DESIGN	
Government of Western Australia Public Transport Authority	
MORLEY ELLENBROOK LINE	
WHITEMAN STATION	
CIVIL - DRAINAGE AND FINISHED SURFACE	
PLAN	
PTA Drawing No: 25-A-289-C10014	Rev: A01

