NOTES - GENERAL

HEALTH & SAFETY RISKS:

- 1. PRIOR TO USING THE WORKS INFORMATION SHOWN ON THIS DRAWING THE CONTRACTOR MUST REFER TO THE DESIGNER'S RISK ASSESSMENTS FOR RISKS CONCERNING THE WORKS.
- THE PRINCIPAL CONTRACTOR AND OTHER CONTRACTORS SHOULD NOTE THAT THE RISKS IDENTIFIED ON THE DRAWINGS MAY NOT BE EXHAUSTIVE AND FURTHER CONSIDERATION BY THEM MAY BE NECESSARY.

UTILITIES & SERVICES:

- 3. ANY UTILITIES SHOWN ON THE DRAWINGS ARE FOR INFORMATION ONLY. PLEASE REFER TO UTILITIES PLANS FOR CURRENT UTILITIES LAYOUTS, BASED ON INFORMATION RECEIVED FROM UTILITY COMPANIES. CURRENT UTILITY LAYOUTS MUST BE READ IN CONJUNCTION WITH THE RELEVANT UTILITY DIVERSION PLANS.
- FOR EXISTING UTILITY LOCATIONS (C2s OCTOBER 2019) REFER TO DRAWINGS: STDC HWY-ATK-VUT-PR-DR-CH-000002 to 000010

GENERAL:

- SHOULD DISCREPANCIES BE IDENTIFIED ON THE CONTRACT DRAWINGS THE DESIGN ENGINEER SHOULD BE INFORMED PRIOR TO CONSTRUCTION WORKS TAKING PLACE.
- 6. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.

SCHEME DRAWINGS - GENERAL:

- 7. FOR GENERAL ARRANGEMENT REFER TO DRAWINGS: STDC_HWY-ATK-HGN-PR-DR-CH-000001 to 000010
- FOR LONG SECTIONS REFER TO DRAWINGS: STDC HWY-ATK-HGN-PR LS-DR-CH-000001 to 000005 & STDC_HWY-ATK-HGN-PR_LS-DR-CH-000009 to 000010
- FOR SECTIONS REFER TO DRAWINGS: STDC HWY-ATK-HGN-PR XS-DR-CH-000001 to 000013 & STDC_HWY-ATK-HGN-PR_XS-DR-CH-000021
- FOR EXISTING TOPOGRAPHIC SURVEY (JUNE 2020) REFER TO DRAWINGS: STDC HWY-ATK-VGN-PR-DR-CH-000002 to 000010

SCHEME DRAWINGS - DISCIPLINE SPECIFIC:

- 10. DRAWING REFERENCES ARE PROVIDED FOR DISCIPLINE SPECIFIC SERIES LAYOUT PLANS. TYPICAL OR STANDARD DETAIL DRAWINGS RELEVANT TO DISCIPLINES HAVE NOT BEEN NOTED BELOW.
- 11. FOR SITE CLEARANCE (GENERAL & VEGETATION) REFER TO DRAWINGS: STDC HWY-ATK-HSC-PR-DR-CH-000001 to 000010
- 12. FOR FENCING & GATES REFER TO DRAWINGS: STDC_HWY-ATK-HFE-PR-DR-CH-000001 to 000010
- 13. ROAD RESTRAINT AND PEDESTRIAN GUARDRAIL WORKS ARE NOT
- 14. FOR PROPOSED HIGHWAY DRAINAGE REFER TO DRAWINGS: STDC HWY-ATK-HDG-PR-DR-CH-000001 to 000010 AND FOR PROPOSED HOLME BECK WATERCOURSE REFER TO DRAWINGS: STDC HWY-ATK-HDG-PR XS-DR-CH-000001 to 00003
- 15. FOR EARTHWORKS REFER TO DRAWINGS: STDC HWY-ATK-HGT-PR-DR-CE-000002
- 16. FOR PAVEMENTS & SURFACING REFER TO DRAWINGS: STDC_HWY-ATK-HPV-PR-DR-CH-000001 to 000014
- 17. FOR KERBS, FOOTWAYS & PAVED AREAS REFER TO DRAWINGS: STDC HWY-ATK-HKF-PR-DR-CH-000001 to 000010
- 18. FOR ROAD MARKINGS & TRAFFIC SIGNS REFER TO DRAWINGS: STDC_HWY-ATK-HMK-PR-DR-CH-000001 to 000010
- 19. FOR ROAD LIGHTING REFER TO DRAWINGS: STDC_HWY-ATK-HLG-PR-DR-CH-000001 to 000011
- 20. FOR STRUCTURES REFER TO CONTRACTORS DRAWINGS PROVIDED BY SEYMOUR'S.
- 21. FOR LANDSCAPING REFER TO BDP LANDSCAPE AND PLANTING DRAWINGS.

KEY - GENERAL

PROPOSED HIGHWAY ALIGNMENT CENTRE LINE CHAINAGE MARKER AND DISTANCE.

PROPOSED TRAFFIC ISLAND WITH TACTILE PAVING CROSSING POINTS.

PROPOSED ROAD EDGE KERB, FOOTWAY & CYCLEWAY AREAS AND TACTILE CROSSING POINT.

1 in 3 Cut.

PROPOSED BACK OF VERGE WITH STANDARD 1 in 3 SLOPED EMBANKMENT OR CUTTING.

PROPOSED BACK OF VERGE WITH VARYING SLOPED EMBANKMENT / CUTTING (GRADED OUT).

SOUTH A66 AND NORTH HBC05 TIE-IN POINTS).

京蓝 京園 東海 (1in3 EARTHWORKS BASE WITH 1in3 / 1in2 TIE IN SLOPES).

PROPOSED HOLME BECK CULVERT (BOX SECTIONS UNDER EAST LINK & NORTH LINK ACCESS).

PROPOSED HOLME BECK CULVERT (PIPED SECTIONS AT

PLANNING APPLICATION (RCBC No. R-2020-0270-FFM) SCHEME BOUNDARY RED LINE BOUNDARY.

RE-ALIGNED HOLME BECK WATERCOURSE CHANNEL

KEY - WARNING LABELS (where shown):



HEALTH AND SAFETY WARNING REFERENCE (SEE H&S RISK ASSESSMENT FOR DETAILS)

ENVIRONMENTAL WARNING REFERENCE (SEE ENVIRONMENTAL RISK ASSESSMENT FOR DETAILS) HS/XX/XXX



HS/XX/XXX

OUTSTANDING APPROVALS REFERENCE (SEE APPROVALS REGISTER FOR DETAILS)

UTILITY WARNING WARNING REFERENCE

(SEE UTILITY RISK ASSESSMENT FOR DETAILS)

KEY - DRAINAGE

HB-MHx

- = EXISTING DRAINAGE SYSTEM / MANHOLE EXISTING HOLME BECK WATERCOURSE TO BE REMOVED AND BACKFILLED (WHERE SHOWN)
 - EXISTING DRAINAGE SYSTEM TO BE REMOVED / ABANDONED
- HIGHWAYS SYSTEM PROPOSED FILTER PIPE
 - HIGHWAYS SYSTEM PROPOSED CARRIER PIPE
 - HIGHWAYS SYSTEM PROPOSED 150mmØ GULLY CONNECTION
- HIGHWAYS SYSTEM EXISTING 150mmØ GULLY CONNECTION TO BE RENEWED AND TIED INTO NEW DRAINAGE SYSTEM (SEE NOTE 16) HIGHWAYS SYSTEM - PROPOSED COMBINED KERB DRAIN ——CKD——CKD— (ENVIROKERB 385SSU). REFER TO MANUFACTURERS SPECIFICATION
 - HOLME BECK SYSTEM PROPOSED 1200mmØ PIPED CONCRETE CULVERT WITH 3000mmØ MANHOLES
 - HOLME BECK SYSTEM PROPOSED FILTER PIPE
- — HOLME BECK SYSTEM PROPOSED RE-ALIGNED CENTRELINE
 - HOLME BECK SYSTEM PROPOSED SCOUR PROTECTION
 - PROPOSED CHAMBER WITH ID REFERENCE (SEE NOTE 4)
 - PROPOSED RODDING ACCESS WITH ID REFERENCE
- PROPOSED COMBINED KERB DRAIN GULLY UNIT (ENVIROKERB ⁿ CKD 385GMT) OR RODDING ACCESS (ENVIROKERB 385RA), REFER TO MANUFACTURERS SPECIFICATION
- PROPOSED GULLY UNIT (SEE NOTE 5) ■ Gxx
- EXISTING GULLY UNIT TO BE REPLACED (SEE NOTES 5 & 16) **■** Gxx

PROPOSED HEADWALL WITH ID REFERENCE

RA

- PIPE SIZE AND FLOW DIRECTION ARROW FOR PIPED SYSTEMS
- → SOP SuDs FEATURE SETTING OUT POINT WITH ID REFERENCE
 - DRAINAGE HIGH POINT IDENTIFICATION SYMBOL

- NOTES:
- 1. DO NOT SCALE FROM THIS DRAWING.
- 2. ALL PIPE DIAMETERS ARE IN MM.
- 3. FOR KEY & GENERAL SCHEME NOTES, REFER TO STDC HWY-ATK-HDG-PR-DR-CD-000001
- 4. ALL CHAMBERS TO BE TYPE 7 CATCHPITS TO HCD F11.
- 5. ALL GULLIES TO BE TRAPPED TO HCD F13.
- 6. UTILITY ROUTES SHOWN ARE INDICATIVE PLEASE REFER TO PUBLIC UTILITIES DRAWING SERIES 'VUT' TO IDENTIFY ANY APPARATUS SHOWN ON THIS DRAWING.
- 7. DRAINAGE HAS BEEN DESIGNED TO HIGHWAYS ALIGNMENT DESIGN MODEL 'P09'.
- 8. REFER TO DESIGN RISK REGISTER FOR RESIDUAL **HEALTH & SAFETY RISKS.**
- 9. 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.
- 10. ALL DIMENSIONS ARE INDICATIVE AND ARE TO BE CONFIRMED PRIOR TO CONSTRUCTION ISSUE.
- 11. BOX CULVERT SECTION IS BASED UPON AGREED LEAD LOCAL FLOOD AUTHORITY (RCBC) AGREED DIMENSIONS
- 12. CULVERT HEADWALL (INLET & OUTLET) ARRANGEMENT TO BE DETERMINED AS CONTRACTOR DESIGNED. ALLOWANCE SHOULD BE MADE FOR GRADIENT OF WATERCOURSE EARTHWORKS TIE-INS AS SHOWN.
- 13. 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.
- 14. ALL STRUCTURE WORKS TO BE IN ACCORDANCE WITH DESIGN MANUAL FOR ROADS AND BRIDGES AND ADHERE TO TEES VALLEY DESIGN GUIDE.
- 15. FOR HOLME BECK WATERCOURSE INFORMATION & GROUNDWATER FILTER PIPES, REFER TO DRAWING SERIES; STDC HWY-ATK-HDG-PR XS-DR-CD-000001 TO
- 16. ALL EXISTING GULLIES SHOWN TO BE REPLACED SHALL REQUIRE EXISTING GULLY CONNECTION PIPES TO BE ASSESSED FOR CONDITION PRIOR TO CONSTRUCTION.

Reviewed Authorised FOR AGREEMENT Revision Drawn Checked Reviewed Authorised P01 CE JR ISSUED FOR REVIEW AND COMMENT CE JR P02 UPDATED FOR DESIGN CHANGES FOR CONSTRUCTION ISSUE MT DS DMA C01 APPROVED - CONSTRUCTION А3

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DETAILED DESIGN of ESTON ROAD HIGHWAYS SCHEME PROPOSED DRAINAGE LAYOUT **KEY & NOTES**

STDC HWY - ATK - HDG -

- DR - CD - 000001 Project Ref No. 5198022 | Sheet: 1 of 1 | Rev: C01 Scale: 1:250

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