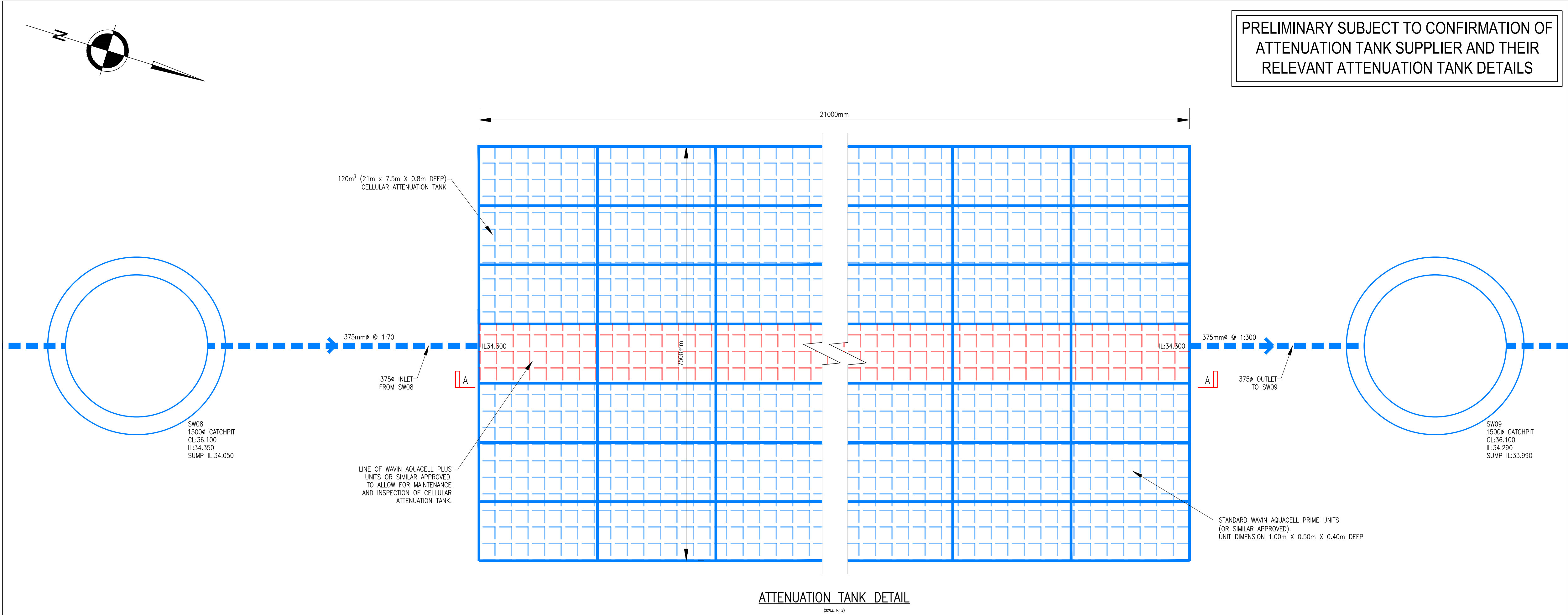
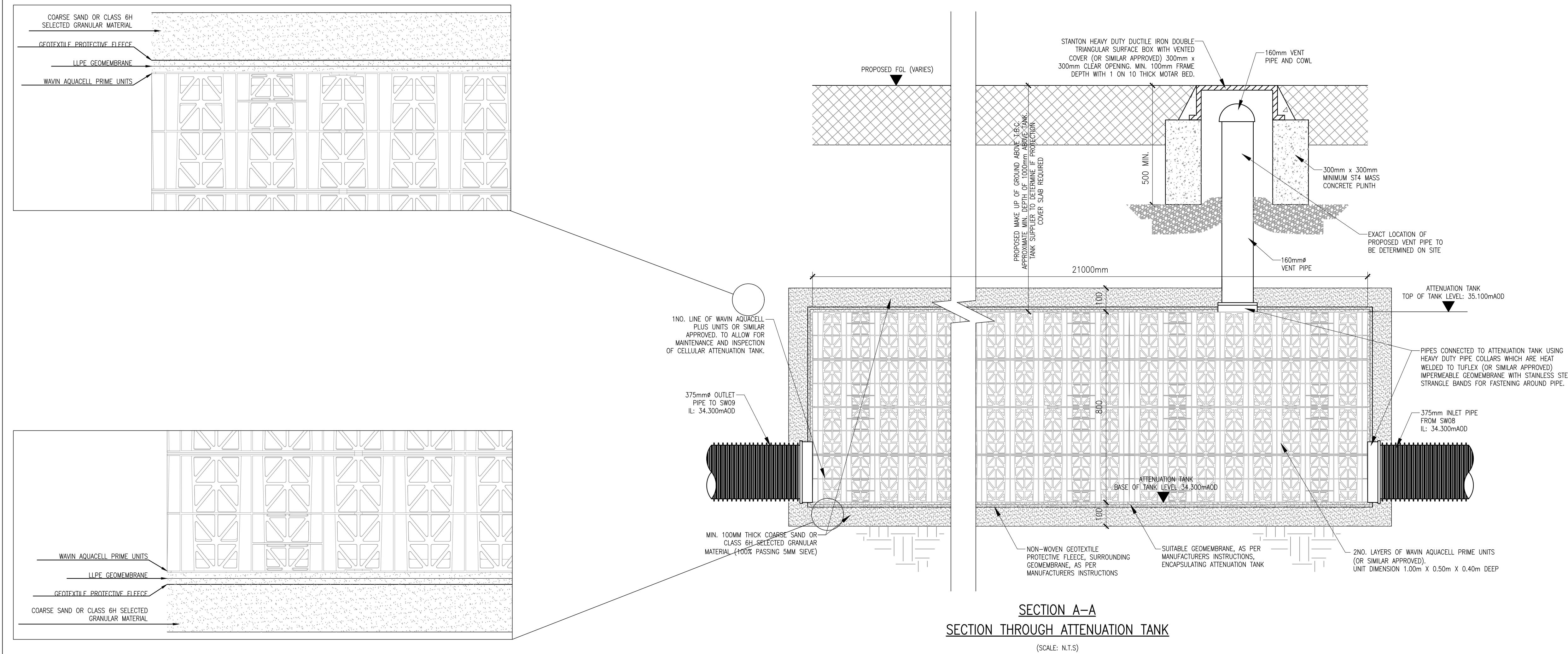




- IMPORTANT NOTES**
- SETTING OUT SHALL BE UNDERTAKEN USING ONLY THE INFORMATION GIVEN. DISTANCES SHOULD NOT BE SCALED FROM THIS DRAWING.
  - ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION 7TH EDITION AND UNITED UTILITIES DETAILS & GUIDELINES.
  - THE MINIMUM GRAVITY PIPE DIAMETER UNDER ADOPTABLE HIGHWAYS SHALL BE 150mm
  - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION GIVEN WITH REGARDS TO EXISTING SERVICES AND DRAINAGE CONNECTIONS ETC. PRIOR TO COMMENCING THE WORKS. THE RATES SHALL INCLUDE FOR HAND DIG-AROUND SERVICES WHERE NECESSARY. THE CONTRACTOR SHALL ADHERE TO THE COM REGULATIONS AT ALL TIMES
  - THE OUTSIDES OF ALL SEWERS SHALL BE A MINIMUM OF 1.0m FROM KERB LINES AND THE OUTSIDE OF MANHOLES SHALL BE A MINIMUM OF 0.5m FROM KERB LINES
  - EXISTING FLOWS IN WATERCOURSES, SEWERS AND LAND DRAINS SHALL BE MAINTAINED AT ALL TIMES
  - ONLY TRAINED PERSONNEL SHALL BE PERMITTED TO ENTER CONFINED SPACES
  - ALL MATERIALS TO BEAR THE RELEVANT B.S. KITEMARK AND COMPLY FULLY WITH THE SPECIFICATIONS. ALL CONCRETE & CONCRETE PRODUCTS MUST USE SULPHATE RESISTANT CEMENT (UNLESS THE SITE INVESTIGATION REPORT PROVES THAT SULPHATE ATTACK FROM SOILS AND GROUNDWATER WILL NOT OCCUR TO WITHSTAND A CLASS
  - ALL OPENING NOTICES ETC. AS REQUIRED UNDER HIGHWAYS ACTS ETC. ARE TO BE OBTAINED PRIOR TO COMMENCEMENT OF WORKS. ALL WORKS ARE TO BE INSPECTED BY L.A., NHBC OR THE NETWORK OPERATOR AS APPLICABLE.
  - WHERE 'ULTRA RIB' UPVC PIPES (OR SIMILAR APPROVED) ARE USED IN ADOPTABLE DRAINAGE THEY SHALL STILL BE HANDLED AND LAID IN ACCORDANCE WITH THE SPECIFICATION AND GUIDANCE ISSUED BY THE HIGH PERFORMANCE PIPE ASSOCIATION.
  - A CLASS 5 BED AND SURROUND MUST BE USED FOR SUCH PIPES. TRENCH BACKFILL IN HIGHWAYS TO WITHIN 1M OF HIGHWAY SHALL AS DIRECTED BY THE HIGHWAY AUTHORITY BE A SUITABLE GRANULAR MATERIAL ALL IN ACCORDANCE WITH SEWERS FOR ADOPTION CL. 4.3.4.
  - SLAB LEVELS SHALL NOT BE VARIED WITHOUT REFERENCE TO THE ENGINEER FOR GUIDANCE
  - DOMESTIC DRAINAGE SHALL BE TO BUILDING REGULATIONS APPROVED DOCUMENT H. 110mm U.P.V.C. PIPES LAID TO THE FOLLOWING MINIMUM FALLS UNLESS OTHERWISE SHOWN.
- |           |         |          |
|-----------|---------|----------|
| HEAD RUN  | FOUL    | S.W.     |
| 1 IN 40   | 1 IN 60 | 1 IN 60  |
| ELSEWHERE | 1 IN 80 | 1 IN 100 |
- ALL GULLY CONNECTIONS TO BE 150mm VITRIFIED CLAY UNLESS NOTED OTHERWISE
  - ALL MANHOLE COVERS TO BE RECESSED TO ACCEPT FINISH AS DETAILED BY LANDSCAPE ARCHITECT
  - ALL MANHOLE AND INSPECTION CHAMBER COVERS TO BE C250 LOAD CLASS UNLESS OTHERWISE NOTED.
  - SLOW REST BENDS TO BE USED IN ALL LOCATIONS MADE UP FROM 2No. 45 DEG BENDS (600mm TO INVERT FROM FFL)
  - MANHOLE POSITIONS AND ACCESS COVERS TO BE ACCURATELY SET-OUT BY LANDSCAPE ARCHITECT TO SUIT EXTERNAL FINISHES
  - ALL DRAINS CAST THROUGH FOUNDATIONS TO HAVE ROCKER PIPES ON BOTH SIDES OF FOUNDATION
  - ALL POP UP POSITIONS TO BE CONFIRMED SET OUT DIMENSIONS TO BE AGREED & PROVIDED BY OTHERS
  - ALL DISCHARGE RATES TO BE CONFIRMED BY M&E DESIGNER
  - ALL SURFACE WATER COLLECTION FEATURES TO BE CONFIRMED BY THE LANDSCAPE ARCHITECT
  - STORAGE HAS BEEN PROVIDED IN A CELLULAR STORAGE TANK AND UP-SIZED MANHOLES AND PIPES.
  - EXISTING SEWER DEPTHS HAVE BEEN APPROXIMATED FROM LIMITED INFORMATION, NEW CONNECTIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION OF ANY DRAINAGE WORKS.
  - LANDSCAPE ARCHITECT TO CONFIRM GULLY AND DRAINAGE CHANNEL LOCATIONS TO LANDSCAPED AREAS.
  - FOUL NETWORK TO BE CONFIRMED FOLLOWING CONFIRMATION OF BRANCH CONNECTION POINTS FROM BUILDING M&E DESIGNER
  - ALL INSPECTION CHAMBERS TO BE 4000 UNLESS NOTED OTHERWISE
  - CCTV SURVEY OF EXISTING SITE DRAINAGE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY WORKS STARTING ON SITE



|     |            |                                                         |  |  |  |     |     |     |
|-----|------------|---------------------------------------------------------|--|--|--|-----|-----|-----|
| P01 | 01.04.2020 | PRELIMINARY - FOR DISCHARGE OF PLANNING CONDITIONS ONLY |  |  |  | JRS | JMM | JMM |
| REV | DATE       | DESCRIPTION                                             |  |  |  | BY  | CHK | APP |

|                                                   |             |                                     |            |               |          |      |              |      |
|---------------------------------------------------|-------------|-------------------------------------|------------|---------------|----------|------|--------------|------|
| DRAWING STATUS:                                   |             |                                     |            |               |          |      |              |      |
| PRELIMINARY                                       |             |                                     |            |               |          |      |              |      |
| CLIENT:                                           |             |                                     |            |               |          |      |              |      |
| THE CHRISTIE NHS FOUNDATION TRUST                 |             |                                     |            |               |          |      |              |      |
| ARCHITECT:                                        |             |                                     |            |               |          |      |              |      |
| IBI GROUP                                         |             |                                     |            |               |          |      |              |      |
| PROJECT:                                          |             |                                     |            |               |          |      |              |      |
| THE CHRISTIE<br>P22 TIERED CAR PARK               |             |                                     |            |               |          |      |              |      |
| TITLE:                                            |             |                                     |            |               |          |      |              |      |
| BELOW GROUND DRAINAGE<br>ATTENUATION TANK DETAILS |             |                                     |            |               |          |      |              |      |
| STATUS:                                           | PROJECT No. | PROJECT                             | ORIGINATOR | VOL/ISS/LEVEL | TYPE     | ROLE | DRAWINGS No. | REV: |
| S2                                                | 218-310     | CCP - AJP - ZZ - 00 - DR - C - 3014 |            |               |          |      |              | P01  |
| SCALE @ A1:                                       | DESIGNED:   | DRAWN:                              | CHECKED:   | APPROVED:     | DATE:    |      |              |      |
| N.T.S                                             | JRS         | JRS                                 | JMM        | JMM           | APR 2020 |      |              |      |

|                                         |  |                    |  |                                                                                       |  |
|-----------------------------------------|--|--------------------|--|---------------------------------------------------------------------------------------|--|
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