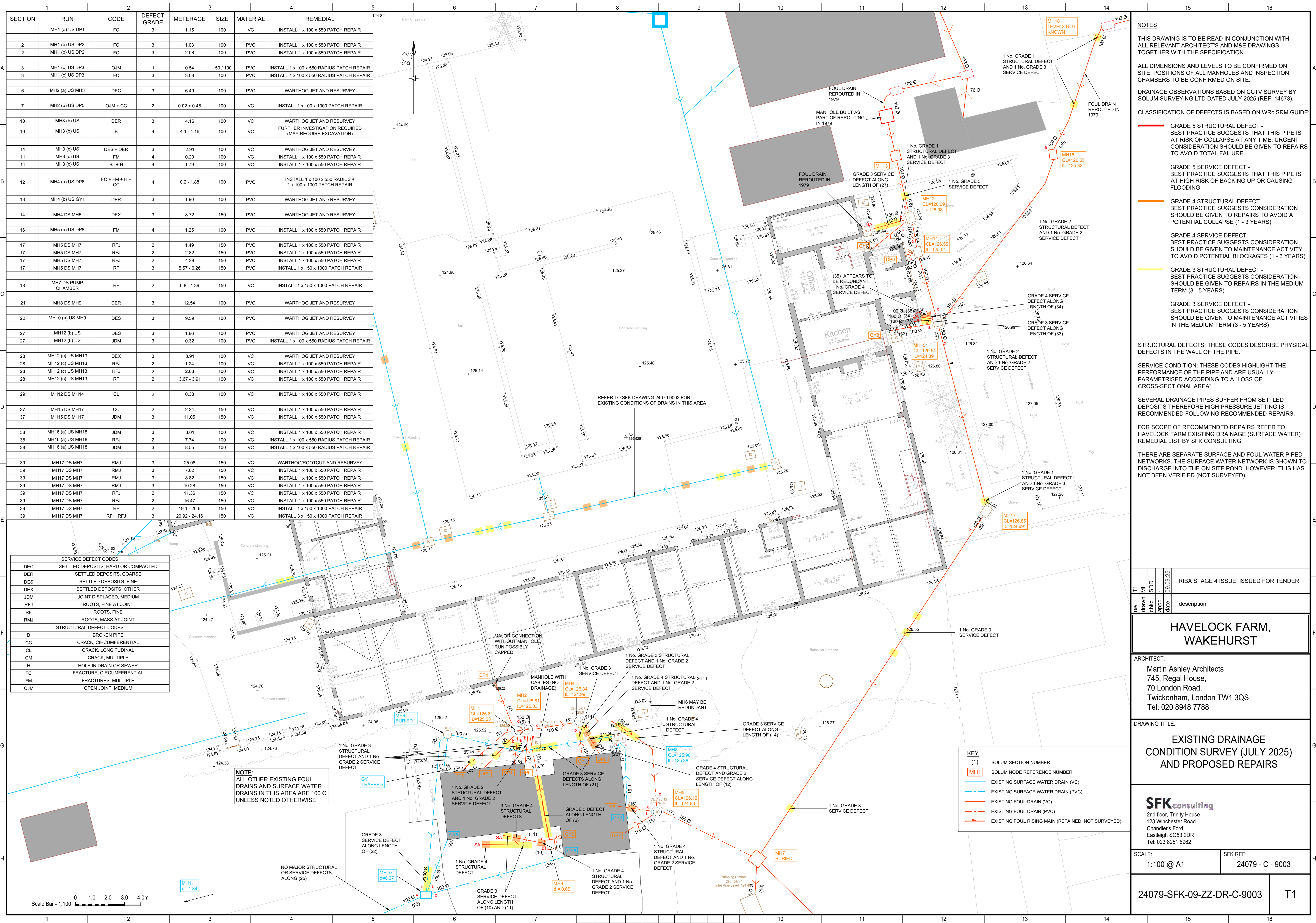
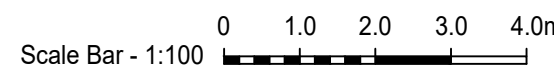


|         | 1   | 2                   | 3                | 4        |               |           |          |                                                            |
|---------|-----|---------------------|------------------|----------|---------------|-----------|----------|------------------------------------------------------------|
| SECTION | RUN | CODE                | DEFECT GRADE     | METERAGE | SIZE          | MATERIAL  | REMEDIAL |                                                            |
| A       | 1   | MH1 (a) US DP1      | FC               | 3        | 1.15          | 100       | VC       | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
|         | 2   | MH1 (b) US DP2      | FC               | 3        | 1.03          | 100       | PVC      | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
|         | 2   | MH1 (b) US DP2      | FC               | 3        | 2.08          | 100       | PVC      | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
|         | 3   | MH1 (c) US DP3      | OJM              | 1        | 0.54          | 150 / 100 | PVC      | INSTALL 1 x 100 x 550 RADIUS PATCH REPAIR                  |
|         | 3   | MH1 (c) US DP3      | FC               | 3        | 3.08          | 100       | PVC      | INSTALL 1 x 100 x 550 RADIUS PATCH REPAIR                  |
|         | 6   | MH2 (a) US MH3      | DEC              | 3        | 6.49          | 100       | PVC      | WARTHOG JET AND RESURVEY                                   |
|         | 7   | MH2 (b) US DP5      | OJM + CC         | 2        | 0.02 + 0.48   | 100       | VC       | INSTALL 1 x 100 x 1000 PATCH REPAIR                        |
|         | 10  | MH3 (b) US          | DER              | 3        | 4.16          | 100       | VC       | WARTHOG JET AND RESURVEY                                   |
|         | 10  | MH3 (b) US          | B                | 4        | 4.1 - 4.16    | 100       | VC       | FURTHER INVESTIGATION REQUIRED (MAY REQUIRE EXCAVATION)    |
|         | 11  | MH3 (c) US          | DES + DER        | 3        | 2.91          | 100       | VC       | WARTHOG JET AND RESURVEY                                   |
|         | 11  | MH3 (c) US          | FM               | 4        | 0.20          | 100       | VC       | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
| B       | 11  | MH3 (c) US          | BJ + H           | 4        | 1.79          | 100       | VC       | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
|         | 12  | MH4 (a) US DP6      | FC + FM + H + CC | 4        | 0.2 - 1.88    | 100       | PVC      | INSTALL 1 x 100 x 550 RADIUS + 1 x 100 x 1000 PATCH REPAIR |
|         | 13  | MH4 (b) US GY1      | DER              | 3        | 1.90          | 100       | PVC      | WARTHOG JET AND RESURVEY                                   |
|         | 14  | MH4 DS MH5          | DEX              | 3        | 8.72          | 150       | PVC      | WARTHOG JET AND RESURVEY                                   |
|         | 16  | MH5 (b) US DP8      | FM               | 4        | 1.25          | 100       | PVC      | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
|         | 17  | MH5 DS MH7          | RFJ              | 2        | 1.49          | 150       | PVC      | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
|         | 17  | MH5 DS MH7          | RFJ              | 2        | 2.82          | 150       | PVC      | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
|         | 17  | MH5 DS MH7          | RFJ              | 2        | 4.28          | 150       | PVC      | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
|         | 17  | MH5 DS MH7          | RF               | 3        | 5.57 - 6.26   | 150       | PVC      | INSTALL 1 x 150 x 1000 PATCH REPAIR                        |
|         | 18  | MH7 DS PUMP CHAMBER | RF               | 2        | 0.8 - 1.39    | 150       | VC       | INSTALL 1 x 150 x 1000 PATCH REPAIR                        |
|         | 21  | MH8 DS MH9          | DER              | 3        | 12.54         | 100       | PVC      | WARTHOG JET AND RESURVEY                                   |
| C       | 22  | MH10 (a) US MH9     | DES              | 3        | 9.59          | 100       | PVC      | WARTHOG JET AND RESURVEY                                   |
|         | 27  | MH12 (b) US         | DES              | 3        | 1.86          | 100       | PVC      | WARTHOG JET AND RESURVEY                                   |
|         | 27  | MH12 (b) US         | JDM              | 3        | 0.32          | 100       | PVC      | INSTALL 1 x 100 x 550 RADIUS PATCH REPAIR                  |
|         | 28  | MH12 (c) US MH13    | DEX              | 3        | 3.91          | 100       | VC       | WARTHOG JET AND RESURVEY                                   |
|         | 28  | MH12 (c) US MH13    | RFJ              | 2        | 1.24          | 100       | VC       | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
|         | 28  | MH12 (c) US MH13    | RFJ              | 2        | 2.68          | 100       | VC       | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
|         | 28  | MH12 (c) US MH13    | RF               | 2        | 3.67 - 3.91   | 100       | VC       | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
|         | 29  | MH12 DS MH14        | CL               | 2        | 0.38          | 100       | VC       | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
|         | 37  | MH15 DS MH17        | CC               | 2        | 2.24          | 150       | VC       | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
|         | 37  | MH15 DS MH17        | JDM              | 3        | 11.05         | 150       | VC       | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
|         | D   | 38                  | MH16 (a) US MH18 | JDM      | 3             | 3.01      | 100      | VC                                                         |
| 38      |     | MH16 (a) US MH18    | RFJ              | 2        | 7.74          | 100       | VC       | INSTALL 1 x 100 x 550 RADIUS PATCH REPAIR                  |
| 38      |     | MH16 (a) US MH18    | JDM              | 3        | 8.55          | 100       | VC       | INSTALL 1 x 100 x 550 RADIUS PATCH REPAIR                  |
| 39      |     | MH17 DS MH7         | RMJ              | 3        | 25.08         | 150       | VC       | WARTHOG/ROOTCUT AND RESURVEY                               |
| 39      |     | MH17 DS MH7         | RMJ              | 3        | 7.62          | 150       | VC       | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
| 39      |     | MH17 DS MH7         | RMJ              | 3        | 8.82          | 150       | VC       | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
| 39      |     | MH17 DS MH7         | RMJ              | 3        | 10.28         | 150       | VC       | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
| 39      |     | MH17 DS MH7         | RFJ              | 2        | 11.36         | 150       | VC       | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
| 39      |     | MH17 DS MH7         | RFJ              | 2        | 16.47         | 150       | VC       | INSTALL 1 x 100 x 550 PATCH REPAIR                         |
| 39      |     | MH17 DS MH7         | RF               | 2        | 19.1 - 20.6   | 150       | VC       | INSTALL 1 x 150 x 1000 PATCH REPAIR                        |
| 39      |     | MH17 DS MH7         | RF + RFJ         | 3        | 20.92 - 24.16 | 150       | VC       | INSTALL 3 x 150 x 1000 PATCH REPAIR                        |

| SERVICE DEFECT CODES    |                                     |
|-------------------------|-------------------------------------|
| DEC                     | SETTLED DEPOSITS, HARD OR COMPACTED |
| DER                     | SETTLED DEPOSITS, COARSE            |
| DES                     | SETTLED DEPOSITS, FINE              |
| DEX                     | SETTLED DEPOSITS, OTHER             |
| JDJ                     | JOINT DISPLACED, MEDIUM             |
| RFJ                     | ROOTS, FINE AT JOINT                |
| RF                      | ROOTS, FINE                         |
| RMJ                     | ROOTS, MASS AT JOINT                |
| STRUCTURAL DEFECT CODES |                                     |
| B                       | BROKEN PIPE                         |
| CG                      | CRACK, CIRCUMFERENTIAL              |
| CL                      | CRACK, LONGITUDINAL                 |
| CM                      | CRACK, MULTIPLE                     |
| H                       | HOLE IN DRAIN OR SEWER              |
| FC                      | FRACTURE, CIRCUMFERENTIAL           |
| FM                      | FRACTURES, MULTIPLE                 |
| OJM                     | OPEN JOINT, MEDIUM                  |

**NOTE:**  
ALL OTHER EXISTING FOUL  
DRAINS AND SURFACE WATER  
DRAINS IN THIS AREA ARE 100 Ø  
UNLESS NOTED OTHERWISE

NO MAJOR STRUCTURAL  
OR SERVICE DEFECTS  
ALONG (25)



## NOTES

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH  
ALL RELEVANT ARCHITECT'S AND M&E DRAWINGS  
TOGETHER WITH THE SPECIFICATION.

ALL DIMENSIONS AND LEVELS TO BE CONFIRMED ON SITE. POSITIONS OF ALL MANHOLES AND INSPECTION CHAMBERS TO BE CONFIRMED ON SITE.

DRAINAGE OBSERVATIONS BASED ON CCTV SURVEY BY  
SOLUM SURVEYING LTD DATED JULY 2025 (REF: 14673).

CLASSIFICATION OF DEFECTS IS BASED ON WRc SRM GUIDE

GRADE 5 STRUCTURAL DEFECT -  
BEST PRACTICE SUGGESTS THAT THIS PIPE IS  
AT RISK OF COLLAPSE AT ANY TIME. URGENT  
CONSIDERATION SHOULD BE GIVEN TO REPAIRS  
TO AVOID TOTAL FAILURE

GRADE 5 SERVICE DEFECT -  
BEST PRACTICE SUGGESTS THAT THIS PIPE IS  
AT HIGH RISK OF BACKING UP OR CAUSING  
FLOODING

**GRADE 4 STRUCTURAL DEFECT -  
BEST PRACTICE SUGGESTS CONSIDERATION  
SHOULD BE GIVEN TO REPAIRS TO AVOID A  
POTENTIAL COLLAPSE (1 - 3 YEARS)**

GRADE 4 SERVICE DEFECT -  
BEST PRACTICE SUGGESTS CONSIDERATION  
SHOULD BE GIVEN TO MAINTENANCE ACTIVITY  
TO AVOID POTENTIAL BLOCKAGES (1 - 3 YEARS)

GRADE 3 STRUCTURAL DEFECT -  
BEST PRACTICE SUGGESTS CONSIDERATION  
SHOULD BE GIVEN TO REPAIRS IN THE MEDIUM  
TERM (3 - 5 YEARS)

GRADE 3 SERVICE DEFECT -  
BEST PRACTICE SUGGESTS CONSIDERATION  
SHOULD BE GIVEN TO MAINTENANCE ACTIVITIES  
IN THE MEDIUM TERM (3 - 5 YEARS)

STRUCTURAL DEFECTS: THESE CODES DESCRIBE PHYSICAL DEFECTS IN THE WALL OF THE PIPE.

SERVICE CONDITION: THESE CODES HIGHLIGHT THE PERFORMANCE OF THE PIPE AND ARE USUALLY PARAMETRISED ACCORDING TO A "LOSS OF CROSS-SECTIONAL AREA"

SEVERAL DRAINAGE PIPES SUFFER FROM SETTLED DEPOSITS THEREFORE HIGH PRESSURE JETTING IS RECOMMENDED FOLLOWING RECOMMENDED REPAIRS.

FOR SCOPE OF RECOMMENDED REPAIRS REFER TO  
HAVELOCK FARM EXISTING DRAINAGE (SURFACE WATER)  
REMEDIAL LIST BY SFK CONSULTING.

THERE ARE SEPARATE SURFACE AND FOUL WATER PIPED NETWORKS. THE SURFACE WATER NETWORK IS SHOWN TO DISCHARGE INTO THE ON-SITE POND. HOWEVER, THIS HAS NOT BEEN VERIFIED (NOT SURVEYED).

|  |       |     |          |                                       |
|--|-------|-----|----------|---------------------------------------|
|  | drawn | ML  |          | RIBA STAGE 4 ISSUE. ISSUED FOR TENDER |
|  | chkd  | SDD | -        |                                       |
|  | appd  |     | 09.09.25 |                                       |
|  | date  |     |          | description                           |

HAVELOCK FARM,  
WAKEHURST

ARCHITECT:

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DRAWING TITLE:

# EXISTING DRAINAGE CONDITION SURVEY (JULY 2025) AND PROPOSED REPAIRS

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SCALE:

1:100 @ A1

SFK REF:

24079 - C - 9003

24079-SFK-09-ZZ-DR-C-9003

T1