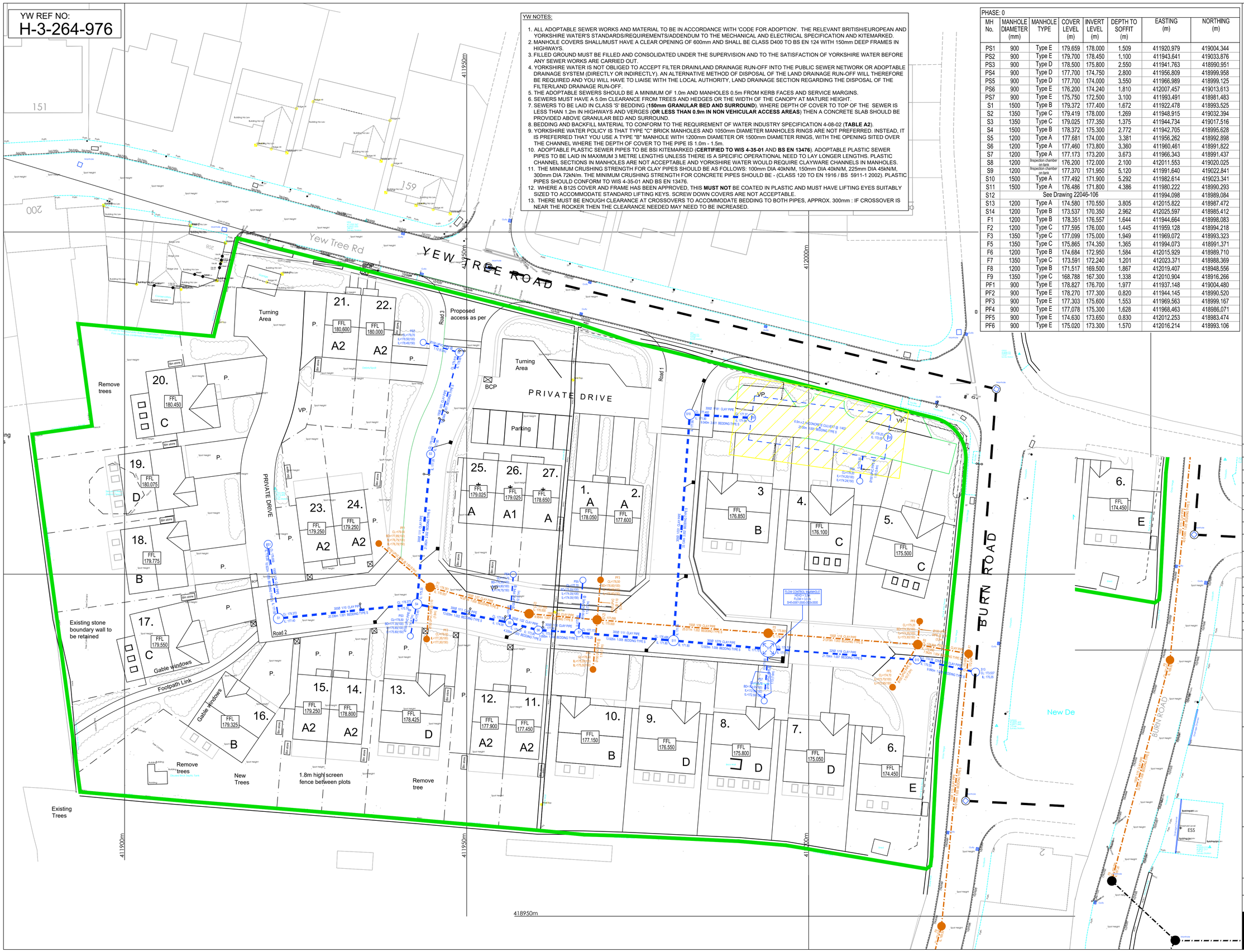
YW REF NO:
H-3-264-976




YW NOTES:

1. ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH 'CODE FOR ADOPTION'. THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED.
2. MANHOLE COVERS SHALL/MUST HAVE A CLEAR OPENING OF 600mm AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS.
3. FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.
4. YORKSHIRE WATER IS NOT OBLIGED TO ACCEPT FILTER DRAIN/LAND DRAINAGE RUN-OFF INTO THE PUBLIC SEWER NETWORK OR ADOPTABLE DRAINAGE SYSTEM (DIRECTLY OR INDIRECTLY). AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUN-OFF WILL THEREFORE BE REQUIRED AND YOU WILL HAVE TO LIAISE WITH THE LOCAL AUTHORITY, LAND DRAINAGE SECTION REGARDING THE DISPOSAL OF THE FILTER/LAND DRAINAGE RUN-OFF.
5. THE ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1.0m AND MANHOLES 0.5m FROM KERB FACES AND SERVICE MARGINS.
6. SEWERS MUST HAVE A 5.0m CLEARANCE FROM TREES AND HEDGES OR THE WIDTH OF THE CANOPY AT MATURE HEIGHT.
7. SEWERS TO BE LAID IN CLASS 'S' BEDDING (**150mm GRANULAR BED AND SURROUND**). WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1.2m IN HIGHWAYS AND VERGES (**OR LESS THAN 0.9m IN NON VEHICULAR ACCESS AREAS**) THEN A CONCRETE SLAB SHOULD BE PROVIDED ABOVE GRANULAR BED AND SURROUND.
8. BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4-08-02 (**TABLE A2**).
9. YORKSHIRE WATER POLICY IS THAT TYPE "C" BRICK MANHOLES AND 1050mm DIAMETER MANHOLES RINGS ARE NOT PREFERRED. INSTEAD, IT IS PREFERRED THAT YOU USE A TYPE "B" MANHOLE WITH 1200mm DIAMETER OR 1500mm DIAMETER RINGS, WITH THE OPENING SITED OVER THE CHANNEL WHERE THE DEPTH OF COVER TO THE PIPE IS 1.0m - 1.5m.
10. ADOPTABLE PLASTIC SEWER PIPES TO BE BSI KITEMARKED (**CERTIFIED TO WIS 4-35-01** AND **BS EN 13476**). ADOPTABLE PLASTIC SEWER PIPES TO BE LAID IN MAXIMUM 3 METRE LENGTHS UNLESS THERE IS A SPECIFIC OPERATIONAL NEED TO LAY LONGER LENGTHS. PLASTIC CHANNEL SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND YORKSHIRE WATER WOULD REQUIRE CLAYWARE CHANNELS IN MANHOLES.
11. THE MINIMUM CRUSHING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS: 100mm DIA 40kN/M, 150mm DIA 40kN/M, 225mm DIA 45kN/M, 300mm DIA 72kN/m. THE MINIMUM CRUSHING STRENGTH FOR CONCRETE PIPES SHOULD BE - (CLASS 120 TO EN 1916 / BS 5911-1 2002). PLASTIC PIPES SHOULD CONFORM TO WIS 4-35-01 AND BS EN 13476.
12. WHERE A B125 COVER AND FRAME HAS BEEN APPROVED, THIS **MUST NOT** BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUITABLY SIZED TO ACCOMMODATE STANDARD LIFTING KEYS. SCREW DOWN COVERS ARE NOT ACCEPTABLE.
13. THERE MUST BE ENOUGH CLEARANCE AT CROSSOVERS TO ACCOMMODATE BEDDING TO BOTH PIPES, APPROX. 300mm : IF CROSSOVER IS NEAR THE ROCKER THEN THE CLEARANCE NEEDED MAY NEED TO BE INCREASED.

PHASE: 0

| MH No. | MANHOLE DIAMETER (mm) | MANHOLE TYPE | COVER LEVEL (m) | INVERT LEVEL (m) | DEPTH TO SOFFIT (m) | EASTING (m) | NORTHING (m) |
|---|---|---|---|---|---|---|---|
| PS1 | 900 | Type E | 179.659 | 178.000 | 1.509 | 411920.979 | 419004.344 |
| PS2 | 900 | Type E | 179.700 | 178.450 | 1.100 | 411943.641 | 419033.876 |
| PS3 | 900 | Type D | 178.500 | 175.800 | 2.550 | 411941.763 | 418990.951 |
| PS4 | 900 | Type D | 177.700 | 174.750 | 2.800 | 411956.809 | 418999.958 |
| PS5 | 900 | Type D | 177.700 | 174.000 | 3.550 | 411966.989 | 418999.125 |
| PS6 | 900 | Type E | 176.200 | 174.240 | 1.810 | 412007.457 | 419013.613 |
| PS7 | 900 | Type E | 175.750 | 172.500 | 3.100 | 411993.491 | 418981.483 |
| S1 | 1500 | Type B | 179.372 | 177.400 | 1.672 | 411922.478 | 418993.525 |
| S2 | 1350 | Type C | 179.419 | 178.000 | 1.269 | 411948.915 | 419032.394 |
| S3 | 1350 | Type C | 179.025 | 177.350 | 1.375 | 411944.734 | 419017.516 |
| S4 | 1500 | Type B | 178.372 | 175.300 | 2.772 | 411942.705 | 418995.628 |
| S5 | 1200 | Type A | 177.681 | 174.000 | 3.381 | 411956.262 | 418992.898 |
| S6 | 1200 | Type A | 177.460 | 173.800 | 3.360 | 411960.461 | 418991.822 |
| S7 | 1200 | Type A | 177.173 | 173.200 | 3.673 | 411966.343 | 418991.437 |
| S8 | 1200 | Inspection chamber on tank | 176.200 | 172.000 | 2.100 | 412011.553 | 419020.025 |
| S9 | 1200 | Inspection chamber on tank | 177.370 | 171.950 | 5.120 | 411991.640 | 419022.841 |
| S10 | 1500 | Type A | 177.492 | 171.900 | 5.292 | 411982.614 | 419023.341 |
| S11 | 1500 | Type A | 176.486 | 171.800 | 4.386 | 411980.222 | 418990.293 |
| S12 | See Drawing 22046-106 | | | | | 411994.098 | 418989.084 |
| S13 | 1200 | Type A | 174.580 | 170.550 | 3.805 | 412015.822 | 418987.472 |
| S14 | 1200 | Type B | 173.537 | 170.350 | 2.962 | 412025.597 | 418985.412 |
| F1 | 1200 | Type B | 178.351 | 176.557 | 1.644 | 411944.664 | 418998.083 |
| F2 | 1200 | Type C | 177.595 | 176.000 | 1.445 | 411959.128 | 418994.218 |
| F3 | 1350 | Type C | 177.099 | 175.000 | 1.949 | 411969.072 | 418993.323 |
| F5 | 1350 | Type C | 175.865 | 174.350 | 1.365 | 411994.073 | 418991.371 |
| F6 | 1200 | Type B | 174.684 | 172.950 | 1.584 | 412015.929 | 418989.710 |
| F7 | 1350 | Type C | 173.591 | 172.240 | 1.201 | 412023.371 | 418988.369 |
| F8 | 1200 | Type B | 171.517 | 169.500 | 1.867 | 412019.407 | 418948.556 |
| F9 | 1350 | Type C | 168.788 | 167.300 | 1.338 | 412010.904 | 418916.266 |
| PF1 | 900 | Type E | 178.827 | 176.700 | 1.977 | 411937.148 | 419004.480 |
| PF2 | 900 | Type E | 178.270 | 177.300 | 0.820 | 411944.145 | 418990.520 |
| PF3 | 900 | Type E | 177.303 | 175.600 | 1.553 | 411969.563 | 418999.167 |
| PF4 | 900 | Type E | 177.078 | 175.300 | 1.628 | 411968.463 | 418986.071 |
| PF5 | 900 | Type E | 174.630 | 173.650 | 0.830 | 412012.253 | 418983.474 |
| PF6 | 900 | Type E | 175.020 | 173.300 | 1.570 | 412016.214 | 418993.106 |

NOTES

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KEY

- EXISTING FOUL SEWER
- EXISTING SW SEWER
- PROPOSED FOUL SEWER
- PROPOSED SW SEWER
- SEWER EASEMENT

| REV | AMENDMENTS | BY | DATE |
|---|---|---|---|
| G | UPDATED TO YW COMMENTS | MJM | 24.07.24 |
| F | DRAINAGE UPDATED | MJM | 25.05.24 |
| E | DRAINAGE UPDATED | MJM | 17.04.24 |
| D | DRAINAGE UPDATED | MJM | 05.04.24 |
| C | DRAINAGE UPDATED | MJM | 01.03.24 |
| B | DRAINAGE UPDATED | MJM | 24.07.23 |
| A | INITIAL ISSUE | MJM | 13.06.23 |

PRELIMINARY

| STATUS | | CHK'D |
|---|---|---|
| PRELIMINARY | / | MJM |
| FOR COMMENT | / | MJM |
| FOR APPROVAL | / | MJM |
| FOR CONSTRUCTION | | |
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CONTRACT
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TITLE
S104 DRAINAGE LAYOUT PLAN

| DRAWN | MJM | CHK'D | MJM |
|---|---|---|---|
| SCALE | 1:250 @ A1 | DATE | 13.06.23 |

| JOB No | DRG No | REV |
|---|---|---|
| 22046 | 113 | G |