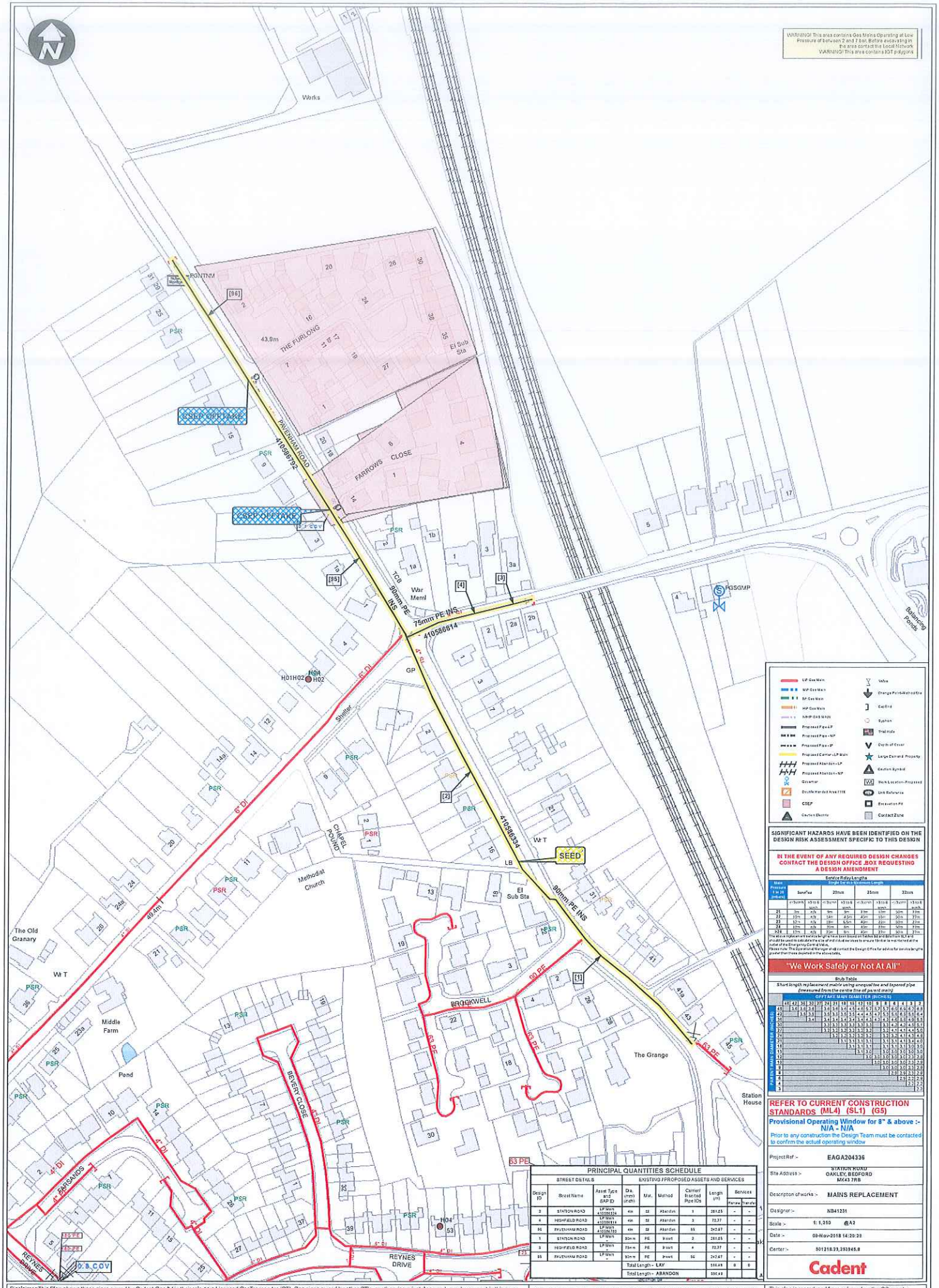


Service Riser Lengths

| Main Pressure (up to 2barg) (mbars) | Single Service Length 20mm | | 25mm | | 32mm | |
|---|---|---|---|---|---|---|
| | <3.5m/h | >3.5 & <6m/h | <3.5m/h | >3.5 & <6m/h | <3.5m/h | >3.5 & <6m/h |
| 21 | 7m | n/a | 9m | 3m | 15m | 10m |
| 22 | 10m | n/a | 14m | 4.5m | 20m | 15m |
| 23 | 12m | n/a | 18m | 6.5m | 40m | 22m |
| 24 | 15m | n/a | 20m | 8m | 45m | 23m |
| 25 | 17m | n/a | 22m | 9m | 45m | 23m |

Stub Table

Short length replacement matrix using unequal tee and tapered pipe (measured from the centre line of pipe and main)

| PARENT MAIN DIAMETER (INCHES) | OFFTAKE MAIN DIAMETER (INCHES) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 48 | 42 | 36 | 30 | 27 | 24 | 21 | 18 | 15 | 12 | 10 | 9 | 8 | 6 | 4 | 3 |
| 48 | 3.6 | 3.6 | 3.6 | | | 3.6 | 3.6 | 3.6 | 4.5 | 4.6 | 5.7 | 5.7 | 6.0 | 6.0 | 6.4 | 6.4 |
| 42 | | 3.6 | 3.6 | | | 3.6 | 3.6 | 3.6 | 4.5 | 4.5 | 4.7 | 5.7 | 5.6 | 6.0 | 6.4 | 6.4 |
| 36 | | | 3.4 | | | 3.4 | 3.4 | 3.4 | 3.4 | 4.3 | 4.3 | 4.3 | 4.6 | 5.6 | 4.9 | 5.1 |
| 30 | | | | | | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | 3.3 | 4.2 | 4.4 | 5.1 |
| 27 | | | | | | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | | 3.2 | 4.1 | 4.4 | 5.0 |
| 24 | | | | | | | 3.1 | 3.2 | 3.2 | 3.2 | 3.2 | | 3.2 | 3.2 | 4.1 | 4.3 |
| 21 | | | | | | | | 3.1 | 3.1 | 3.1 | 3.1 | | 3.1 | 3.1 | 4.1 | 4.4 |
| 18 | | | | | | | | 3.1 | 3.1 | 3.1 | 3.1 | | 3.1 | 3.1 | 3.1 | 3.0 |
| 15 | | | | | | | | | 3.1 | 3.0 | 3.0 | | 3.1 | 3.0 | 3.0 | 3.0 |
| 12 | | | | | | | | | | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.3 | 2.9 |
| 10 | | | | | | | | | | 3.0 | 3.0 | 3.0 | 3.0 | 2.3 | 2.9 | 2.9 |
| 9 | | | | | | | | | | | 3.0 | 3.0 | 3.0 | 2.3 | 2.9 | 2.9 |
| 8 | | | | | | | | | | | | 2.9 | 2.9 | 2.3 | 2.9 | 2.9 |
| 6 | | | | | | | | | | | | | 2.5 | 2.3 | 2.9 | 2.9 |
| 4 | | | | | | | | | | | | | | 2.7 | 2.7 | 2.7 |
| 3 | | | | | | | | | | | | | | | 2.5 | 2.5 |

PRINCIPAL QUANTITIES SCHEDULE

| Design ID | Street Name | Asset Type and GAP ID | Dia. (mm) (inch) | Mat. | Method | Current Inserted Pipe IDs | Length (m) | Services Renew | Services Transfer |
|---|---|---|---|---|---|---|---|---|---|
| 2 | STATION ROAD | LP Main 410586324 | 4in | SI | Abandon | 1 | 281.25 | - | - |
| 4 | HIGHFIELD ROAD | LP Main 410586814 | 4in | SI | Abandon | 3 | 72.37 | - | - |
| 55 | PAVENHAM ROAD | LP Main 410586792 | 4in | SI | Abandon | 55 | 242.67 | - | - |
| 1 | STATION ROAD | LP Main | 90mm | PE | Insert | 2 | 281.05 | - | - |
| 3 | HIGHFIELD ROAD | LP Main | 75mm | PE | Insert | 4 | 72.37 | - | - |
| 55 | PAVENHAM ROAD | LP Main | 90mm | PE | Insert | 56 | 242.67 | - | - |
| | | | Total Length - LAY | | | | 596.48 | 0 | 0 |
| | | | Total Length - ABANDON | | | | 596.48 | | |

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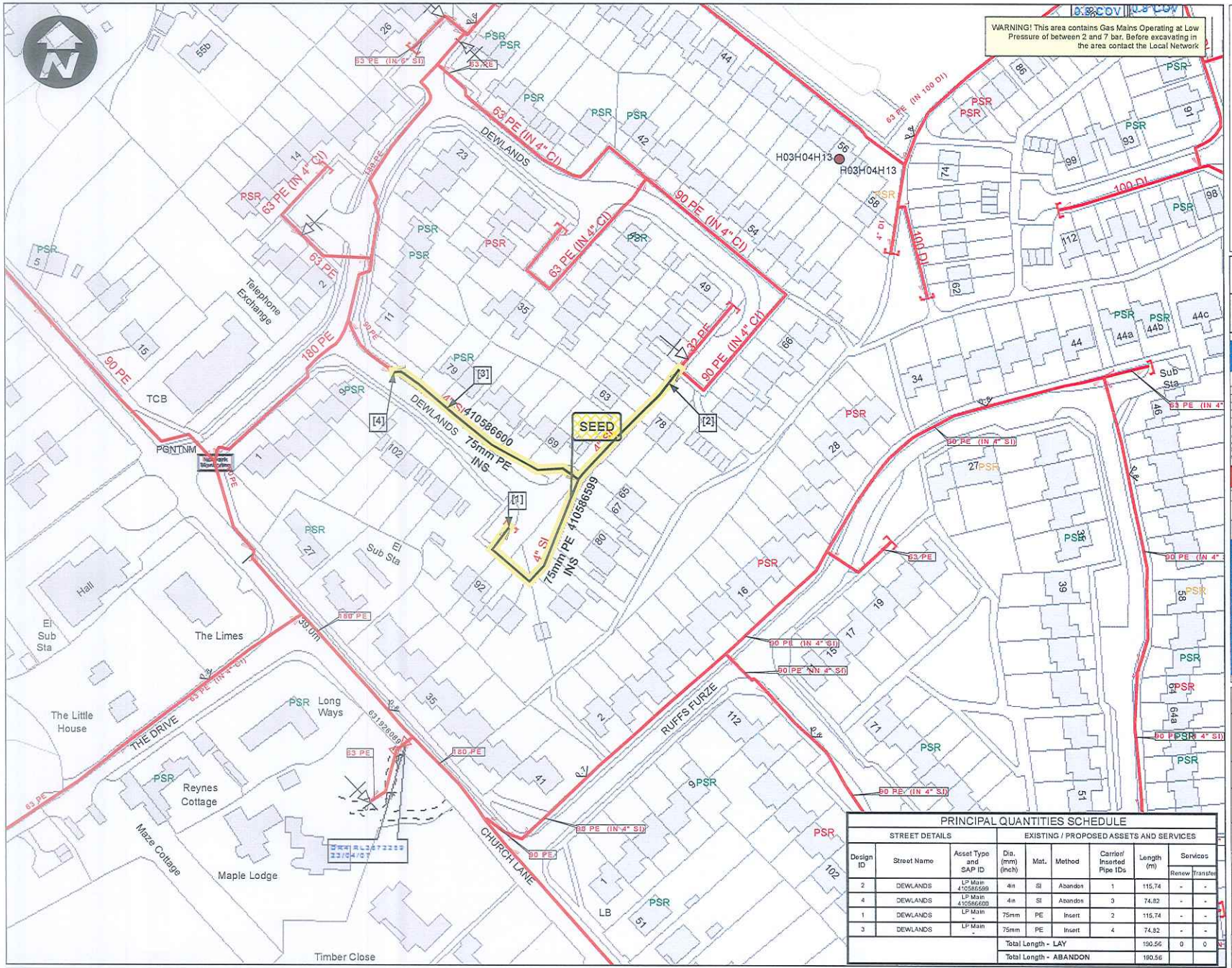


KEY LEGEND - PROPOSED

| | |
|---|---|
| LIP Gas Main | Valve |
| MP Gas Main | Change Point-Method/Dia |
| IP Gas Main | CapEnd |
| HIP Gas Main | Syphon |
| NIHP GAS MAIN | Trial Hole |
| Proposed Pipe-LP | Depth of Cover |
| Proposed Pipe - MP | Large Demand Property |
| Proposed Pipe - IP | Caution Symbol |
| Proposed Carrier - LP Main | Work Location-Proposed |
| Proposed Abandon - LP | Unit Reference |
| Proposed Abandon - MP | Excavation Pit |
| Governor | Contact Zone |
| Double Handed Area / 118 | |
| CSEP | |
| Caution Electric | |

SIGNIFICANT HAZARDS HAVE BEEN IDENTIFIED ON THE DESIGN RISK ASSESSMENT SPECIFIC TO THIS DESIGN

IN THE EVENT OF ANY REQUIRED DESIGN CHANGES CONTACT THE DESIGN OFFICE ,BOX REQUESTING A DESIGN AMENDMENT

Service Relay Lengths

| Main Pressure 1 in 20 (mbara) | Single Service Maximum Length | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Seriflex | | 20mm | | 25mm | | 32mm | |
| | <=3scmh | >3 to 6 scmh | <=3scmh | >3 to 6 scmh | <=3scmh | >3 to 6 scmh | <=3scmh | >3 to 6 scmh |
| 21 | 7m | n/a | 9m | 3m | 27m | 10m | 50m | 27m |
| 22 | 10m | n/a | 14m | 4.5m | 40m | 16m | 50m | 27m |
| 23 | 12m | n/a | 18m | 6.5m | 40m | 22m | 50m | 27m |
| 24 | 12m | n/a | 20m | 8m | 40m | 27m | 50m | 27m |
| >24 | 12m | n/a | 20m | 8m | 40m | 27m | 50m | 27m |

The above replacement service lengths have been based on Tables D3 and D3a from SL1 and should be used to calculate the size of individual services to ensure 19mbar is maintained at the outlet of the Emergency Control Valve.
Please note: The Operational Manager shall contact the Design Office for advice for service lengths greater than those depicted in the above table.

"We Work Safely or Not At All"

Stub Table

*Short length replacement matrix using unequal tee and tapered pipe (measured from the centre line of parent main)*

| PARENT MAIN DIAMETER (INCHES) \ OFFTAKE MAIN DIAMETER (INCHES) | 48 | 42 | 36 | 30 | 27 | 24 | 21 | 18 | 15 | 12 | 10 | 9 | 8 | 6 | 4 | 3 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 48 | | 3.6 | 3.6 | 3.6 | | 3.6 | 3.6 | 3.6 | 4.5 | 4.8 | 5.7 | 5.7 | 5.7 | 6.0 | 6.9 | 6.2 | 6.8 |
| 42 | | | 3.5 | 3.5 | | 3.5 | 3.5 | 3.5 | 3.5 | 4.4 | 4.5 | 4.7 | 5.3 | 5.6 | 6.5 | 5.8 | 6.4 |
| 36 | | | | 3.4 | | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 4.3 | 4.3 | 4.3 | 4.6 | 5.5 | 4.9 | 5.5 |
| 30 | | | | | | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | 3.3 | | 4.2 | 4.2 | 4.5 | 5.1 |
| 27 | | | | | | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | | 3.2 | | 4.1 | 4.1 | 4.4 | 5.0 |
| 24 | | | | | | | 3.2 | 3.2 | 3.2 | 3.2 | | 3.2 | | 3.2 | 4.1 | 4.3 | 4.9 |
| 21 | | | | | | | | 3.1 | 3.1 | 3.1 | | 3.1 | | 3.1 | 4.1 | 3.4 | 4.0 |
| 18 | | | | | | | | 3.1 | 3.1 | 3.1 | | 3.1 | | 3.1 | 3.1 | 3.0 | 3.0 |
| 15 | | | | | | | | | 3.1 | 3.0 | | 3.0 | | 3.0 | 3.0 | 3.0 | 3.0 |
| 12 | | | | | | | | | | 3.0 | | 3.0 | | 3.0 | 3.0 | 2.3 | 2.9 |
| 10 | | | | | | | | | | | | 3.0 | | 3.0 | 3.0 | 2.3 | 2.9 |
| 9 | | | | | | | | | | | | 3.0 | | 3.0 | 3.0 | 2.3 | 2.9 |
| 8 | | | | | | | | | | | | | | 2.9 | 2.9 | 2.3 | 2.9 |
| 6 | | | | | | | | | | | | | | 2.9 | 2.2 | 2.2 | 2.9 |
| 4 | | | | | | | | | | | | | | | 2.2 | 2.2 | 2.2 |
| 3 | | | | | | | | | | | | | | | | | 2.2 |

REFER TO CURRENT CONSTRUCTION STANDARDS (ML4) (SL1) (G5)

Provisional Operating Window for 8" & above :-
N/A - N/A
Prior to any construction the Design Team must be contacted to confirm the actual operating window

| | |
|---|---|
| Project Ref :- | EAGA204337 |
| Site Address :- | DEWLANDS<br>OAKLEY, BEDFORD<br>MK43 7RW |
| Description of works :- | MAINS REPLACEMENT |
| Designer :- | NB41231 |
| Scale :- | 1: 1,250 @A3 |
| Date :- | 09-Nov-2018 15:27:45 |
| Center :- | 500886,53,253407,37 |

Cadent

PRINCIPAL QUANTITIES SCHEDULE

| STREET DETAILS | | | EXISTING / PROPOSED ASSETS AND SERVICES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Design ID | Street Name | Asset Type and SAP ID | Dia. (mm) (inch) | Mat. | Method | Carrier/ Inserted Pipe IDs | Length (m) | Services Renew | Services Transfer |
| 2 | DEWLANDS | LP Main 410586599 | 4in | SI | Abandon | 1 | 115.74 | - | - |
| 4 | DEWLANDS | LP Main 410586600 | 4in | SI | Abandon | 3 | 74.82 | - | - |
| 1 | DEWLANDS | LP Main - | 75mm | PE | Insert | 2 | 115.74 | - | - |
| 3 | DEWLANDS | LP Main - | 75mm | PE | Insert | 4 | 74.82 | - | - |
| | | | Total Length - LAY | | | | 190.56 | 0 | 0 |
| | | | Total Length - ABANDON | | | | 190.56 | | |

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