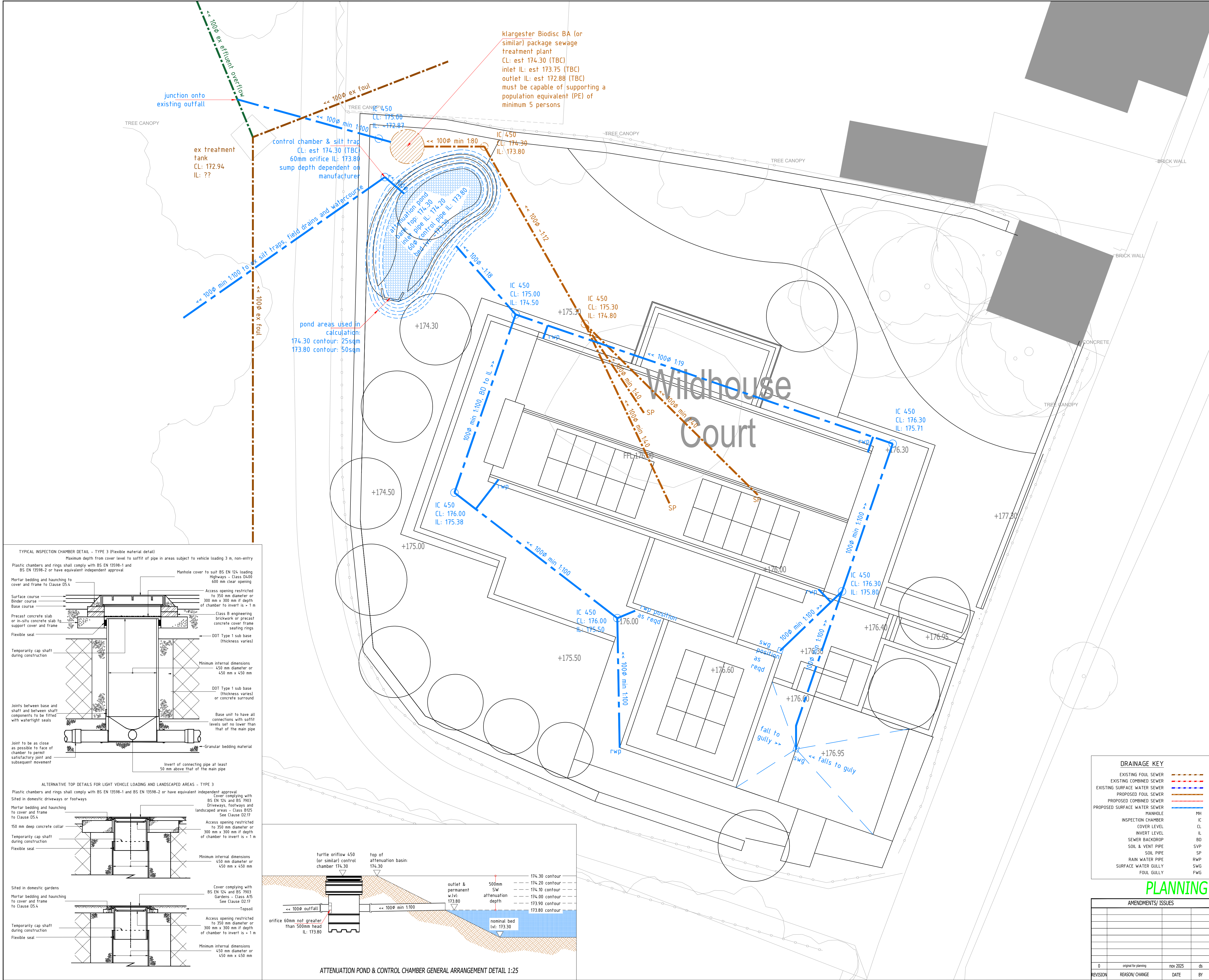




GENERAL NOTES

0.0 THIS DRAWING IS COPYRIGHT & IS SENT TO YOU IN CONFIDENCE IT MUST NOT BE COPIED, USED OR DISCLOSED, IN WHOLE OR IN PART, TO THIRD PARTIES WITHOUT WRITTEN PERMISSION. IT REMAINS THE PROPERTY OF TJA&A AND MUST BE RETURNED ON REQUEST.

0.1 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTUAL DOCUMENTS.

0.2 All dims in mm unless otherwise stated.

0.3 All levels to SITE DATUM.

0.4 Refer to architects details for SHM.

0.5 Contractor to confirm SDP/SQL prior to ordering material/ construction.

0.6 Do not scale, the contractor must verify all dims prior to commencing shop drawings or work on site.

0.7 All work to be carried out in accordance with CDM 2015.

1.0 HIGHWAYS/ACCESS ROADS & PRIVATE DRIVES.

1.1 All impermeable construction.

2.0 DRAINAGE.

2.1 To be read in conjunction with T J Booth Associates drainage calculations.

2.2 Manhole cover levels indicative only, to be adjusted to suit final finish site levels.

2.3 Sewers/manholes to be constructed in accordance with the water authorities sewers for adoption (edition as applicable, B. Regs. Approved Doc. H, and BS 5912:4).

2.4 Class 5 granular bed and surround to all new sewers.

2.5 Sewers must have min 150th concrete surround if:

- adoptable assets with less than 12m of cover under highways or driveways;
- private assets with less than 900mm of cover under private driveways.

2.6 All conc. including pipes and manholes to be sulphate resisting unless otherwise agreed in writing by eng.

2.7 Foul water must be to the following gradients in accordance with Bregs. and Sewers For Adoption:

- 3000 at gradients not less than 1:80 where at least 1 WC is connected and not less than 1:40 where no WC is connected.

2.8 Surface water must be to the following gradients in accordance with Bregs:

- 500 at gradients not less than 1:80.
- 500 at gradients not less than 1:50.

2.8 Adoptable surface water must be to the following gradients in accordance with Sewers for Adoption:

- 3000 at gradients not less than 1:50.
- 500 at gradients not less than 1:100.

2.9 No construction work to be undertaken on the United Utilities network unless approval granted under either 5106 or 5104 as appropriate.

3.0 MANHOLES.

3.1 Manhole diameters to be in accordance with SFA clause 2.9.3, and according to largest manhole pipe diameter.

Pipe dia      MH dia

375      500

375-500      600

500-600      750

600-750      900

750-900      1200

900-1200      1500

1200-1500      1800

1500-1800      2100

1800-2100      2400

2100-2400      2700

2400-2700      3000

2700-3000      3300

3000-3300      3600

3300-3600      3900

3600-3900      4200

3900-4200      4500

4200-4500      4800

4500-4800      5100

4800-5100      5400

5100-5400      5700

5400-5700      6000

5700-6000      6300

6000-6300      6600

6300-6600      6900

6600-6900      7200

6900-7200      7500

7200-7500      7800

7500-7800      8100

7800-8100      8400

8100-8400      8700

8400-8700      9000

8700-9000      9300

9000-9300      9600

9300-9600      9900

9600-9900      10200

9900-10200      10500

10200-10500      10800

10500-10800      11100

10800-11100      11400

11100-11400      11700

11400-11700      12000

11700-12000      12300

12000-12300      12600

12300-12600      12900

12600-12900      13200

12900-13200      13500

13200-13500      13800

13500-13800      14100

13800-14100      14400

14100-14400      14700

14400-14700      15000

14700-15000      15300

15000-15300      15600

15300-15600      15900

15600-15900      16200

15900-16200      16500

16200-16500      16800

16500-16800      17100

16800-17100      17400

17100-17400      17700

17400-17700      18000

17700-18000      18300

18000-18300      18600

18300-18600      18900

18600-18900      19200

18900-19200      19500

19200-19500      19800

19500-19800      20100

19800-20100      20400

20100-20400      20700

20400-20700      21000

20700-21000      21300

21000-21300      21600

21300-21600      21900

21600-21900      22200

21900-22200      22500

22200-22500      22800

22500-22800      23100

22800-23100      23400

23100-23400      23700

23400-23700      24000

23700-24000      24300

24000-24300      24600

24300-24600      24900

24600-24900      25200

24900-25200      25500

25200-25500      25800

25500-25800      26100

25800-26100      26400

26100-26400      26700

26400-26700      27000

26700-27000      27300

27000-27300      27600

27300-27600      27900

27600-27900      28200

27900-28200      28500

28200-28500      28800

28500-28800      29100

28800-29100      29400

29100-29400      29700

29400-29700      30000

29700-30000      30300

30000-30300      30600

30300-30600      30900

30600-30900      31200

30900-31200      31500

31200-31500      31800

31500-31800      32100

31800-32100      32400

32100-32400      32700

32400-32700      33000

32700-33000      33300

33000-33300      33600

33300-33600      33900

33600-33900      34200

33900-34200      34500

34200-34500      34800

34500-34800      35100

34800-35100      35400

35100-35400      35700

35400-35700      36000

35700-36000      36300

36000-36300      36600

36300-36600      36900

36600-36900      37200

36900-37200      37500

37200-37500      37800

37500-37800      38100

37800-38100      38400

38100-38400      38700

38400-38700      39000

38700-39000      39300

39000-39300      39600

39300-39600      39900

39600-39900      40200

39900-40200      40500

40200-40500      40800

40500-40800      41100

40800-41100      41400

41100-41400      41700

41400-41700      42000

41700-42000      42300

42000-42300      42600

42300-42600      42900

42600-42900      43200

42900-43200      43500

43200-43500      43800

43500-43800      44100

43800-44100      44400

44100-44400      44700

44400-44700      45000

44700-45000      45300

45000-45300      45600

45300-45600      45900

45600-45900      46200

45900-46200      46500

46200-46500      46800

46500-46800      47100

46800-47100      47400

47100-47400      47700

47400-47700      48000

47700-48000      48300

48000-48300      48600

48300-48600      48900

48600-48900      49200

48900-49200      49500

49200-49500      49800

49500-49800      50100

49800-50100      50400

50100-50400      50700

50400-50700      51000

50700-51000      51300

51000-51300      51600

51300-51600      51900

51600-51900      52200

51900-52200      52500

52200-52500      52800

52500-52800      53100

52800-53100      53400

53100-53400      53700

53400-53700      54000

53700-54000      54300

54000-54300      54600

54300-54600      54900

54600-54900      55200

54900-55200      55500

55200-55500      55800

55500-55800      56100

55800-56100      56400

56100-56400      56700

56400-56700      57000

56700-57000      57300

57000-57300      57600

57300-57600      57900

57600-57900      58200

57900-58200      58500

58200-58500      58800

58500-58800      59100

58800-59100      59400

59100-59400      59700

59400-59700      60000

59700-60000      60300

60000-60300      60600

60300-60600      60900

60600-60900      61200

60900-61200      61500

61200-61500      61800

61500-61800      62100

61800-62100      62400

62100-62400      62700

62400-62700      63000

62700-63000      63300

63000-63300      63600

63300-63600      63900

63600-63900      64200

63900-64200      64500

64200-64500      64800

64500-64800      65100

64800-65100      65400

65100-65400      65700

65400-65700      66000

65700-66000      66300

66000-66300      66600

66300-66600      66900

66600-66900      67200

66900-67200      67500

67200-67500      67800

67500-67800      68100

67800-68100      68400

68100-68400      68700

68400-68700      69000

68700-69000      69300

69000-69300      69600

69300-69600      69900

69600-69900      70200

69900-70200      70500

70200-70500      70800

70500-70800      71100

70800-71100      71400

71100-71400      71700

71400-71700      72000

71700-72000      72300

72000-72300      72600

72300-72600      72900

72600-72900      73200

72900-73200      73500

73200-73500      73800

73500-73800      74100

73800-74100      74400

74100-74400      74700

74400-74700      75000

74700-75000      75300

75000-75300      75600

75300-75600      75900

75600-75900      76200

75900-76200      76500

76200-76500      76800

76500-76800      77100

76800-77100      77400

77100-77400      77700

77400-77700      78000

77700-78000      78300

78000-78300      78600

78300-78600      78900

78600-78900      79200

78900-79200      79500

79200-79500      79800

79500-79800      80100

79800-80100      80400

80100-80400      80700

80400-80700      81000

80700-81000      81300

81000-81300      81600

81300-81600      81900

81600-81900      82200

81900-82200      82500

82200-82500      82800

82500-82800      83100

82800-83100      83400

83100-83400      83700

83400-83700      84000

83700-84000      84300

84000-84300      84600

84300-84600      84900

84600-84900      85200

84900-85200      85500

85200-85500      85800

85500-85800      86100

85800-86100      86400

86100-86400      86700

86400-86700      87000

86700-87000      87300

87000-87300      87600

87300-87600      87900

87600-87900      88200

87900-88200      88500

88200-88500      88800

88500-88800      89100

88800-89100      89400

89100-89400      89700

89400-89700      90000

89700-90000      90300

90000-90300      90600

90300-90600      90900

90600-90900      91200

90900-91200      91500

91200-91500      91800

91500-91800      92100

91800-92100      92400

92100-92400      92700

92400-92700      93000

92700-93000      93300

93000-93300      93600

93300-93600      93900

93600-93900      94200

93900-94200      94500

94200-94500      94800

94500-94800      95100

94800-95100      95400

95100-95400      95700

95400-95700      96000

95700-96000      96300

96000-96300      96600

96300-96600      96900

96600-96900      97200

96900-97200      97500

97200-97500      97800

97500-97800      98100

97800-98100      98400

98100-98400      98700

98400-98700      99000

98700-99000      99300

99000-99300      99600

99300-99600      99900

99600-100000      100200

100200-100500      100500

100500-100800      100800

100800-101100      101100

101100-101400      101400

101400-101700      101700

101700-102000      102000

102000-102300      102300

102300-102600      102600

102600-102900      102900

102900-103200      103200

103200-103500      103500

103500-103800      103800

103800-104100      104100

104100-104400      104400

104400-104700      104700

104700-105000      105000

105000-105300      105300

105300-105600      105600

105600-105900      105900

105900-106200      106200

106200-106500      106500

106500-106800      106800

106800-107100      107100

107100-107400      107400

107400-107700      107700

107700-108000      108000

108000-108300      108300

108300-108600      108600

108600-108900      108900

108900-109200      109200

109200-109500      109500

109500-109800      109800

109800-110100      110100

110100-110400      110400

110400-110700      110700

110700-111000      111000

111000-111300      111300

111300-111600      111600

111600-111900      111900

111900-112200      112200

112200-112500      112500

112500-112800      112800

112800-113100      113100

113100-113400      113400

113400-113700      113700

113700-114000      114000

114000-114300      114300

114300-114600      114600

114600-114900      114900

114900-115200      115200

115200-115500      115500

115500-115800      115800

115800-116100      116100

116100-116400      116400

116400-116700      116700

116700-117000      117000

117000-117300      117300

117300-117600      117600

117600-117900      117900

117900-118200      118200

118200-118500      118500

118500-118800      118800

118800-119100      119100

119100-119400      119400

119400-119700      119700

119700-120000      120000

120000-120300      120300

120300-120600      120600

120600-120900      120900

120900-121200      121200

121200-121500      121500

121500-121800      121800

121800-122100      122100

122100-122400      122400

122400-122700      122700

122700-123000      123000

123000-123300      123300

123300-123600      123600

123600-123900      123900

123900-124200      124200

124200-124500      124500

124500-124800      124800

124800-125100      125100

125100-125400      125400

125400-125700      125700

125700-126000      126000

126000-126300      126300

126300-126600      126600

126600-126900      126900

126900-127200      127200

127200-127500      127500

127500-127800      127800

127800-128100      128100

128100-128400      128400

128400-128700      128700

128700-129000      129000

129000-129300      129300

129300-129600      129600

129600-129900      129900

129900-130200      130200

130200-130500      130500

130500-130800      130800

130800-131100      131100

131100-131400      131400

131400-131700      131700

131700-132000      132000

132000-132300      132300

132300-132600      132600

132600-132900      132900

132900-133200      133200

133200-133500      133500

133500-133800      133800

133800-134100      134100

134100-134400      134400

134400-134700      134700

134700-135000      135000

135000-135300      135300

135300-135600      135600

135600-135900      135900

135900-136200      136200

136200-136500      136500

136500-136800      136800

136800-137100      137100

137100-137400      137400

137400-137700      137700

137700-138000      138000

138000-138300      138300

138300-138600      138600

138600-138900      138900

138900-139200      139200

139200-139500      139500

139500-139800      139800

139800-140100      140100

140100-