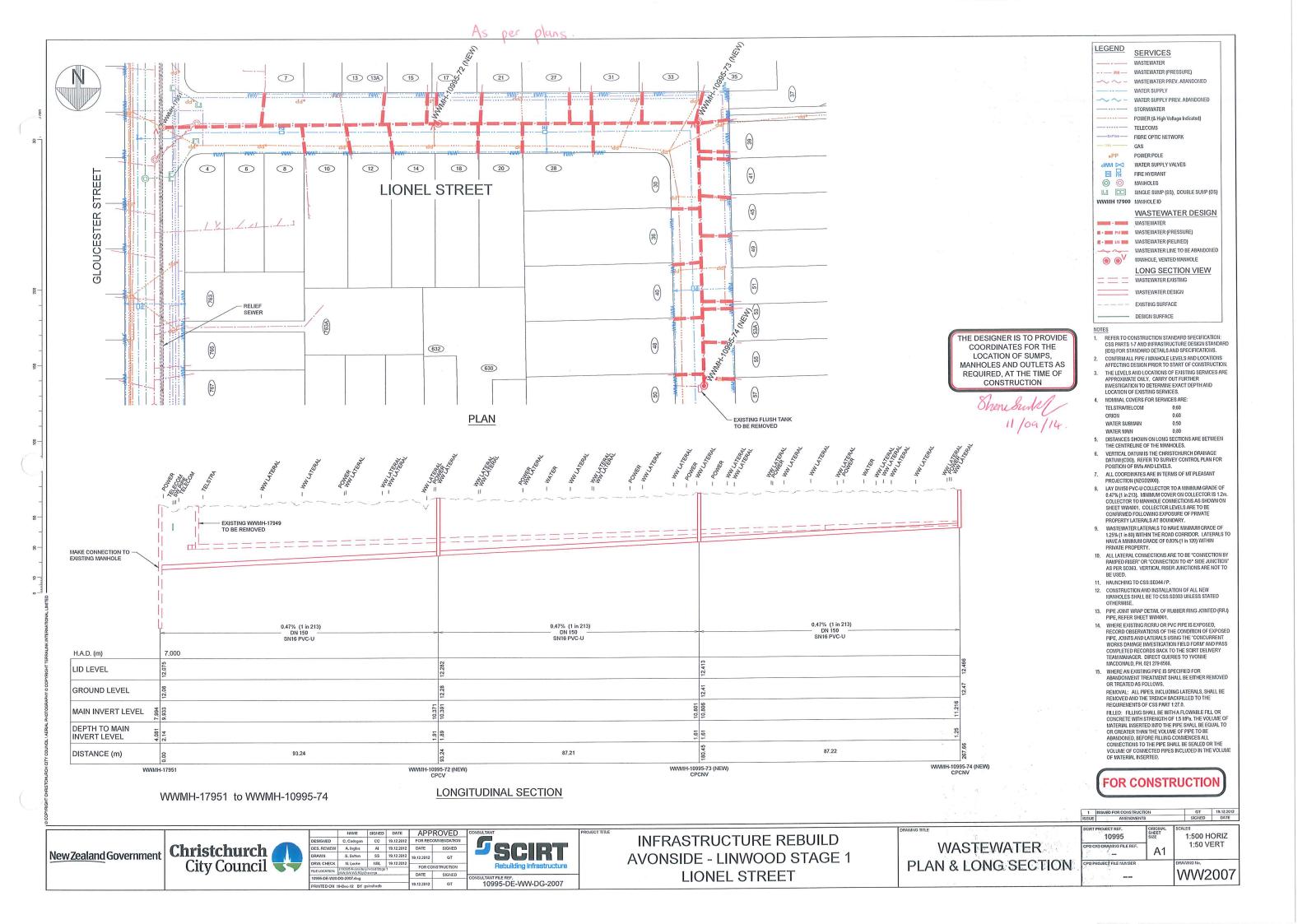
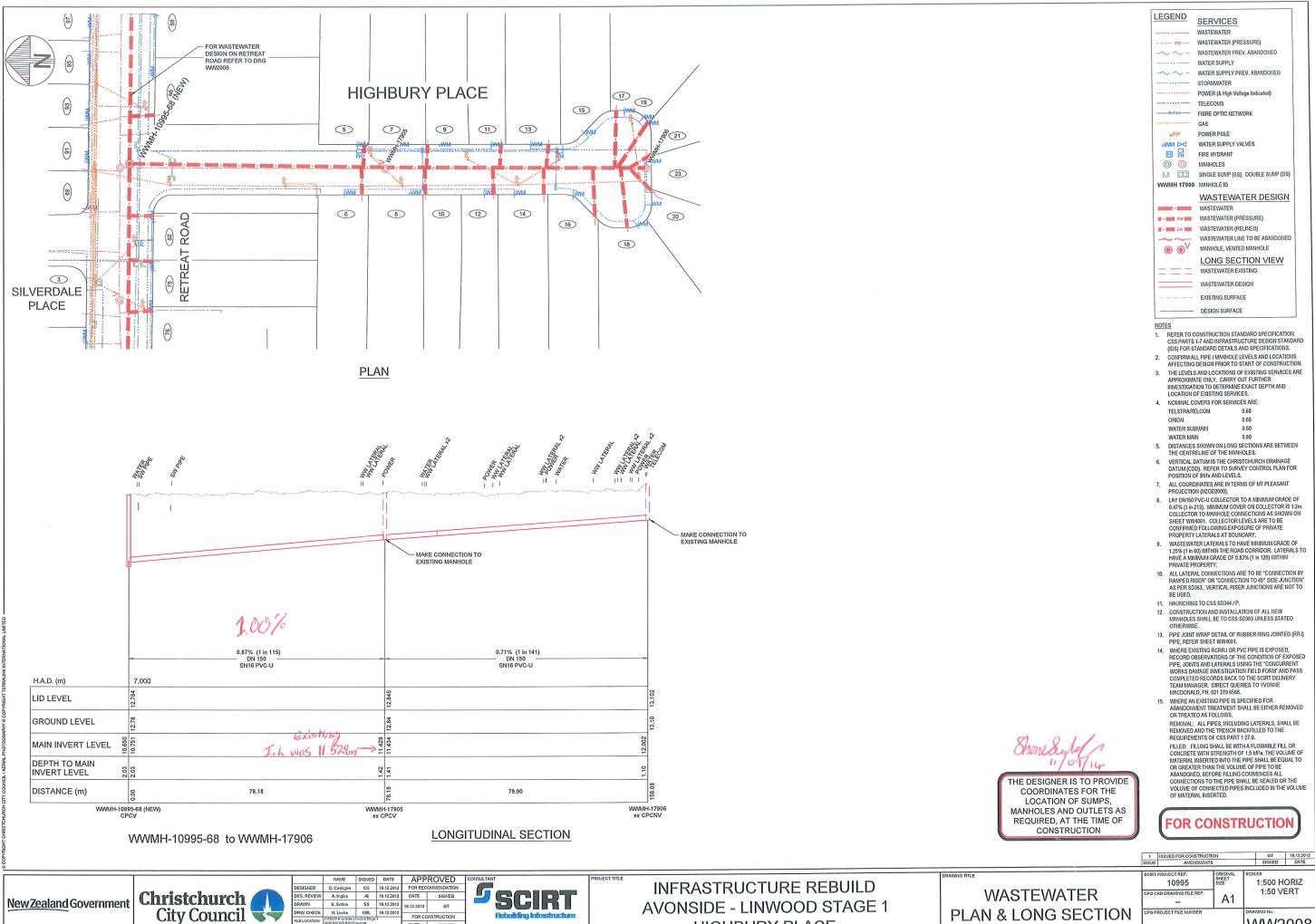


10995-DE-WW-DG-2006





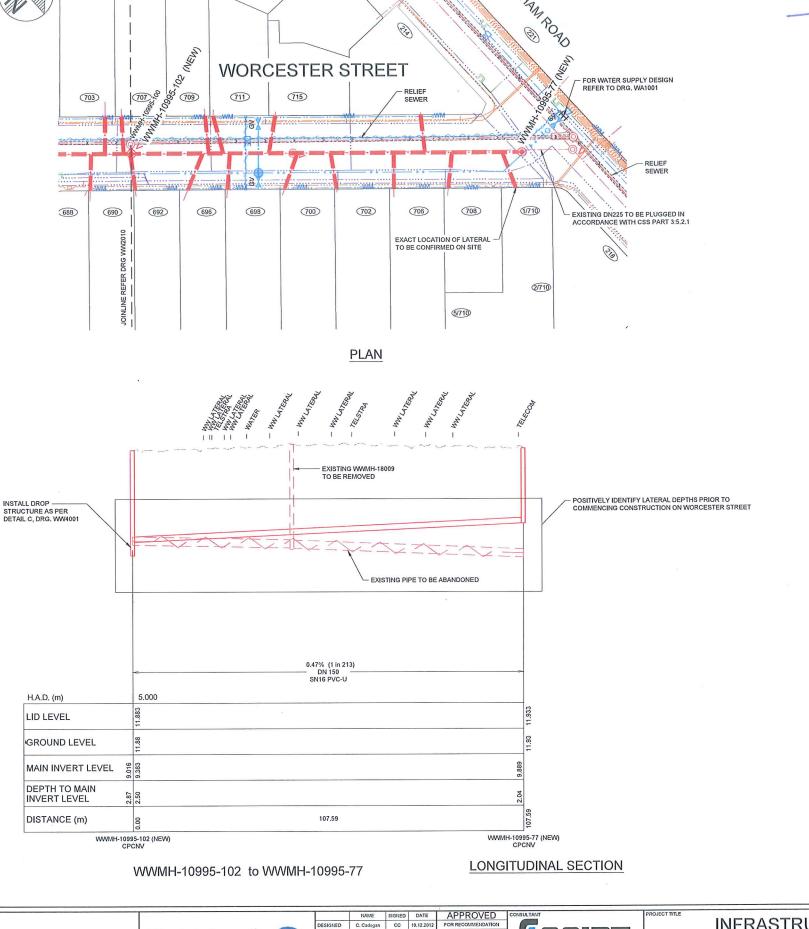
19.12.2012

WW2008

HIGHBURY PLACE

PLAN & LONG SECTION





TAKEN out of contract.

LEGEND **SERVICES** WASTEWATER WASTEWATER PREV. ABANDONED WATER SUPPLY WATER SUPPLY PREV. ABANDONED STORMWATER POWER (& High Voltage Indicated) TELECOMS FIBRE OPTIC NETWORK POWER POLE WATER SUPPLY VALVES 田品 FIRE HYDRANT MANHOLES SINGLE SUMP (SS), DOUBLE SUMP (DS WWMH 17900 MANHOLE ID WASTEWATER WASTEWATER WASTEWATER (PRESSURE) WASTEWATER (RELINED) MANHOLE, VENTED MANHOLE LONG SECTION VIEW WASTEWATER EXISTING WASTEWATER DESIGN EXISTING SURFACE DESIGN SURFACE

- REFER TO CONSTRUCTION STANDARD SPECIFICATION: CSS PARTS 1-7 AND INFRASTRUCTURE DESIGN STANDARD (IDS) FOR STANDARD DETAILS AND SPECIFICATIONS.
- CONFIRM ALL PIPE / MANHOLE LEVELS AND LOCATIONS AFFECTING DESIGN PRIOR TO START OF CONSTRUCTION
- AFFECTION SESSION FINANT OF STANT OF CONTROLLOR.

  THE LEVELS AND LOCATIONS OF EXISTING SERVICES ARE APPROXIMATE ONLY. CARRY OUT FURTHER INVESTIGATION TO DETERMINE EXACT DEPTH AND LOCATION OF EXISTING SERVICES.

  4. NOMINAL COVERS FOR SERVICES ARE:
- TELSTRA/TELCOM

WATER MAIN 0.80

- 5. DISTANCES SHOWN ON LONG SECTIONS ARE BETWEEN THE CENTRELINE OF THE MANHOLES.
- VERTICAL DATUM IS THE CHRISTCHURCH DRAINAGE DATUM (CDD). REFER TO SURVEY CONTROL PLAN FOR POSITION OF BMs AND LEVELS. 7 ALL COORDINATES ARE IN TERMS OF MT PLEASANT
- PROJECTION (NZGD200).

  8. LAY DNI50 PVC-U COLLECTOR TO A MINIMUM GRADE OF 0.47% (1 in 213). MINIMUM COVER ON COLLECTOR IS 1.2m. COLLECTOR TO MANHOLE CONNECTIONS AS SHOWN ON SHEET WW4001, COLLECTOR LEVELS ARE TO BE CONFIRMED FOLLOWING EXPOSURE OF PRIVATE PROPERTY LATERALS AT BOUNDARY.
- 9. WASTEWATER LATERALS TO HAVE MINIMUM GRADE OF 1.25% (1 in 80) WITHIN THE ROAD CORRIDOR. LATERALS TO HAVE A MINIMUM GRADE OF 0.83% (1 in 120) WITHIN PRIVATE PROPERTY.
- ALL LATERAL CONNECTIONS ARE TO BE "CONNECTION BY RAMPED RISER" OR "CONNECTION TO 45" SIDE JUNCTION" AS PER SD363, VERTICAL RISER JUNCTIONS ARE NOT TO SELECT TO THE PROPERTY OF THE PROPE
- 11. HAUNCHING TO CSS:SD344 / P.
- CONSTRUCTION AND INSTALLATION OF ALL NEW
   MANHOLES SHALL BE TO CSS:SD303 UNLESS STATED
- PIPE JOINT WRAP DETAIL OF RUBBER RING JOINTED (RRJ) PIPE, REFER SHEET WW4001.
- 14 WHERE EXISTING RORR LOR PVC PIPE IS EXPOSED. RECORD OBSERVATIONS OF THE CONDITION OF EXPOSED RECORD OBSERVATIONS OF THE CONDITION OF EXPOSED PIPE, JOINTS AND LATERALS USING THE "CONDUCRERIT WORKS DAMAGE INVESTIGATION FIELD FORM" AND PASS COMPLETED RECORDS BACK TO THE SCIRT DELIVERY TEAM MANAGER. DIRECT QUERIES TO YVONNE MACDONALD, PH. 021 279 6568.
- 15. WHERE AN EXISTING PIPE IS SPECIFIED FOR BANDONMENT TREATMENT SHALL BE EITHER REMOVED OR TREATED AS FOLLOWS.

OR TREATED AS FOLLOWS.
REMOVAL: ALL PIPES, INCLUDING LATERALS, SHALL BE
REMOVED AND THE TRENCH BACKFILLED TO THE
REQUIREMENTS OF CSS PART 1:27.0.

FILLED: FILLING SHALL BE WITH A FLOWABLE FILL OR CONCRETE WITH STRENGTH OF 1.5 MPa. THE VOLUME OF MATERIAL INSERTED INTO THE PIPE SHALL BE EQUAL TO OR GREATER THAN THE VOLUME OF PIPE TO BE ABANDONED, BEFORE FILLING COMMENCES ALL CONNECTIONS TO THE PIPE SHALL BE SEALED OR THE VOLUME OF CONNECTED PIPES INCLUDED IN THE VOLUME OF MATERIAL INSERTED.

FOR CONSTRUCTION

90

New Zealand Government Christchurch City Council

DATE SIGNED GT 19.12.2012 N. Locke NBL 19.12.2012 - 110995 Avenside Linwood Stage 1 FOR CONSTRUCTION 10995-DE-WW-DG-2009

INFRASTRUCTURE REBUILD **AVONSIDE - LINWOOD STAGE 1** WORCESTER STREET

WASTEWATER PLAN & LONG SECTION SHEET 1

THE DESIGNER IS TO PROVIDE

COORDINATES FOR THE

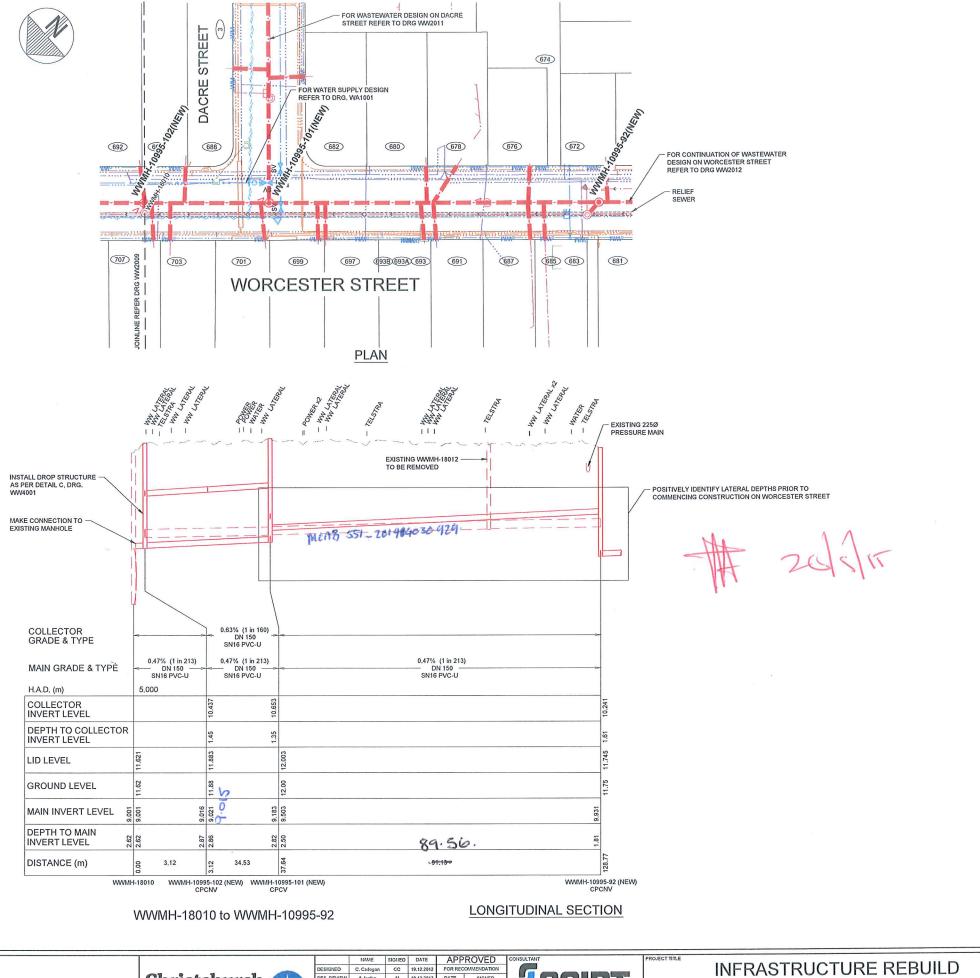
LOCATION OF SUMPS,

MANHOLES AND OUTLETS AS REQUIRED, AT THE TIME OF

CONSTRUCTION

10995 CAD DRAWING FILE REF.

1:500 HORIZ 1:50 VERT A1 WW2009



LEGEND SERVICES WASTEWATER PREV. ABANDONE WATER SUPPLY WATER SUPPLY PREV. ABANDONED POWER (& High Voltage Indicated TELECOMS FIBRE OPTIC NETWORK ePP POWER POLE WATER SUPPLY VALVES 田品 FIRE HYDRANT MANHOLES SINGLE SUMP (SS), DOUBLE SUMP (DS) WWMH 17900 MANHOLE ID WASTEWATER DESIGN WASTEWATER (RELINED) LONG SECTION VIEW WASTEWATER DESIGN EXISTING SURFACE DESIGN SURFACE

- CSS PARTS 1-7 AND INFRASTRUCTURE DESIGN STANDARD (IDS) FOR STANDARD DETAILS AND SPECIFICATIONS.
- 3. THE LEVELS AND LOCATIONS OF EXISTING SERVICES ARE APPROXIMATE ONLY, CARRY OUT FURTHER
  INVESTIGATION TO DETERMINE EXACT DEPTH AND
- 4. NOMINAL COVERS FOR SERVICES ARE TELSTRA/TELCOM

ORION WATER SUBMAIN WATER MAIN 0.80

- DISTANCES SHOWN ON LONG SECTIONS ARE BETWEEN THE CENTRELINE OF THE MANHOLES.
- VERTICAL DATUM IS THE CHRISTCHURCH DRAINAGE DATUM (CDD). REFER TO SURVEY CONTROL PLAN FOR POSITION OF BMs AND LEVELS.
- 7. ALL COORDINATES ARE IN TERMS OF MT PLEASANT
- 7. ALL COORDINATES ARE IN TERMS OF MI PLEASANI PROJECTION (INZEGUODO).

  8. LAY DN159 PVC-U COLLECTOR TO A MINIMUM GRADE OF 0.47% (1 in 213). MINIMUM COVER ON COLLECTOR IS 1.2m. COLLECTOR TO MAINLOE CONNECTIONS AS SHOWN ON SHEET WW4001. COLLECTOR LEVELS ARE TO BE CONFIRMED FOLLOWING EXPOSURE OF PRIVATE PROPERTY LATERALS AT BOUNDARY.
- 9. WASTEWATER LATERALS TO HAVE MINIMUM GRADE OF 1.25% (1 in 80) WITHIN THE ROAD CORRIDOR. LATERALS TO HAVE A MINIMUM GRADE OF 0.83% (1 in 120) WITHIN PRIVATE PROPERTY.
- ALL LATERAL CONNECTIONS ARE TO BE "CONNECTION BY RAMPED RISER" OR "CONNECTION TO 45° SIDE JUNCTION" AS PER \$D363, VERTICAL RISER JUNCTIONS ARE NOT TO
- 11. HAUNCHING TO CSS:SD344 / P.
- CONSTRUCTION AND INSTALLATION OF ALL NEW
   MANHOLES SHALL BE TO CSS:SD303 UNLESS STATED
   STATEDUNGS
- PIPE JOINT WRAP DETAIL OF RUBBER RING JOINTED (RRJ) PIPE, REFER SHEET WW4001.
- 14. WHERE EXISTING RORRJ OR PVC PIPE IS EXPOSED, RECORD OBSERVATIONS OF THE CONDITION OF EXPOSED PIPE, JOINTS AND LATERALS USING THE "CONCURRENT WORKS DAMAGE INVESTIGATION FIELD FORM" AND PASS WORKS DAMAGE, INVESTIGATION FIELD FORM AND PAS COMPLETED RECORDS BACK TO THE SCIRT DELIVERY TEAM MANAGER. DIRECT QUERIES TO YVONNE MACDONALD, PH. 021 279 6566. 15. WHERE AN EXISTING PIPE IS SPECIFIED FOR
- ABANDONMENT TREATMENT SHALL BE EITHER REMOVED

ABARDONNEN THEATMENT SPACE BE ETTHER REMOVED OF TREATED AS FOLLOWS.

REMOVAL: ALL PIPES, INCLUDING LATERALS, SHALL BE REMOVED AND THE TRENCH BACKFILLED TO THE REQUIREMENTS OF CSS PART 1:27.0.

FILLED: FILLING SHALL BE WITH A FLOWABLE FILL OR CONCRETE WITH STRENGTH OF 1.5 MPa. THE VOLUME OF MATERIAL INSERTED INTO THE PIPE SHALL BE EQUAL TO OR GREATER THAN THE VOLUME OF PIPE TO BE ADMINISTRED PERCEPT BUILDING COMMENCES ALL OR GREATER THAN THE VOLUME OF PIPE TO BE ABANDONED, BEFORE FILLING COMMENCES ALL CONNECTIONS TO THE PIPE SHALL BE SEALED OR TH VOLUME OF CONNECTED PIPES INCLUDED IN THE VOLUME OF MATERIAL INSERTED.

FOR CONSTRUCTION

New Zealand Government

Christchurch / City Council

 
 DESIGNED
 C. Cadogan
 CC
 19.12.2012

 DES. REVIEW
 A. Ingles
 Al
 19.12.2012
 DATE SIGNED 19.12.2012

10995-DE-WW-DG-2010

**AVONSIDE - LINWOOD STAGE 1** WORCESTER STREET

WASTEWATER PLAN & LONG SECTION SHEET 2

THE DESIGNER IS TO PROVIDE

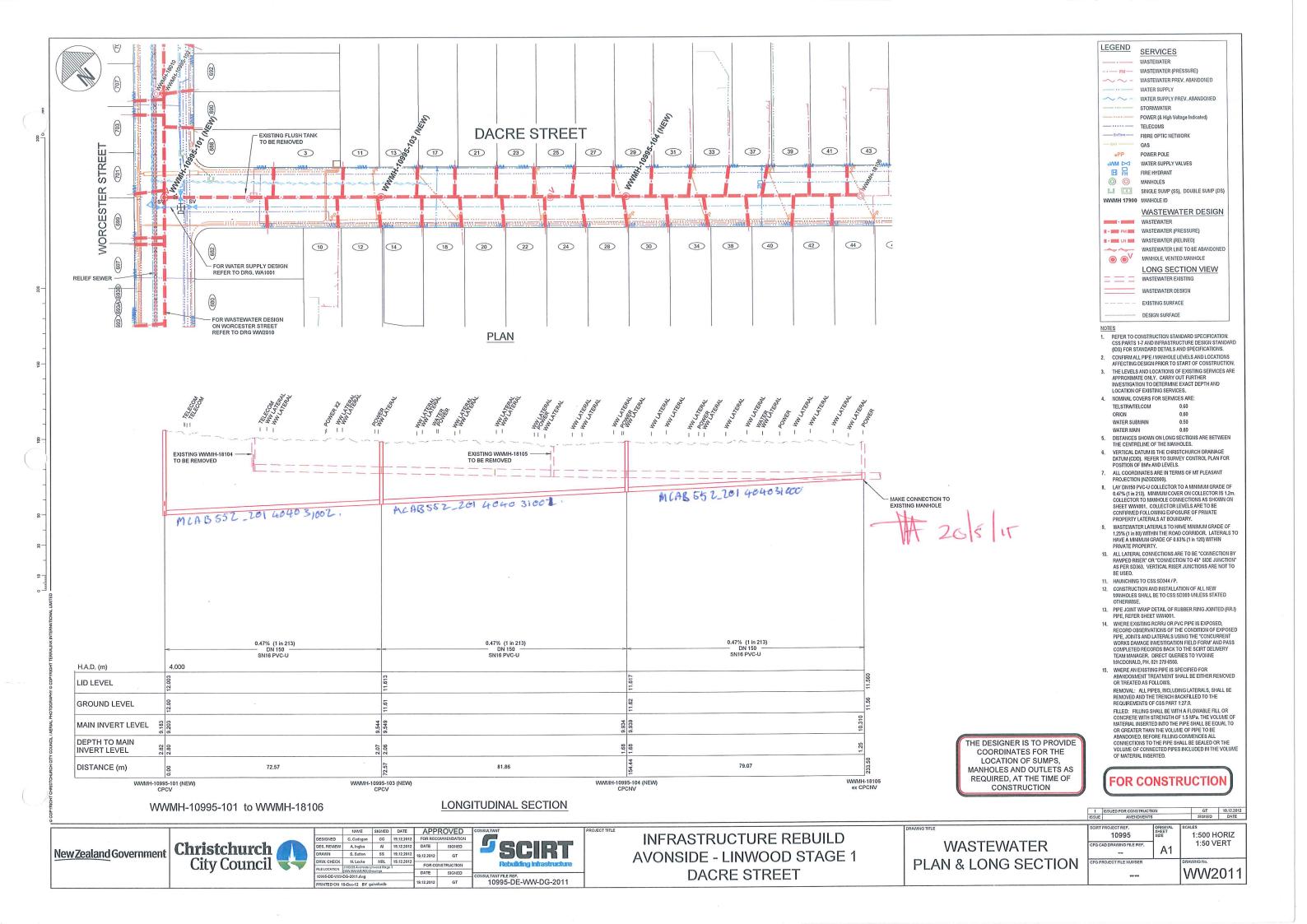
COORDINATES FOR THE

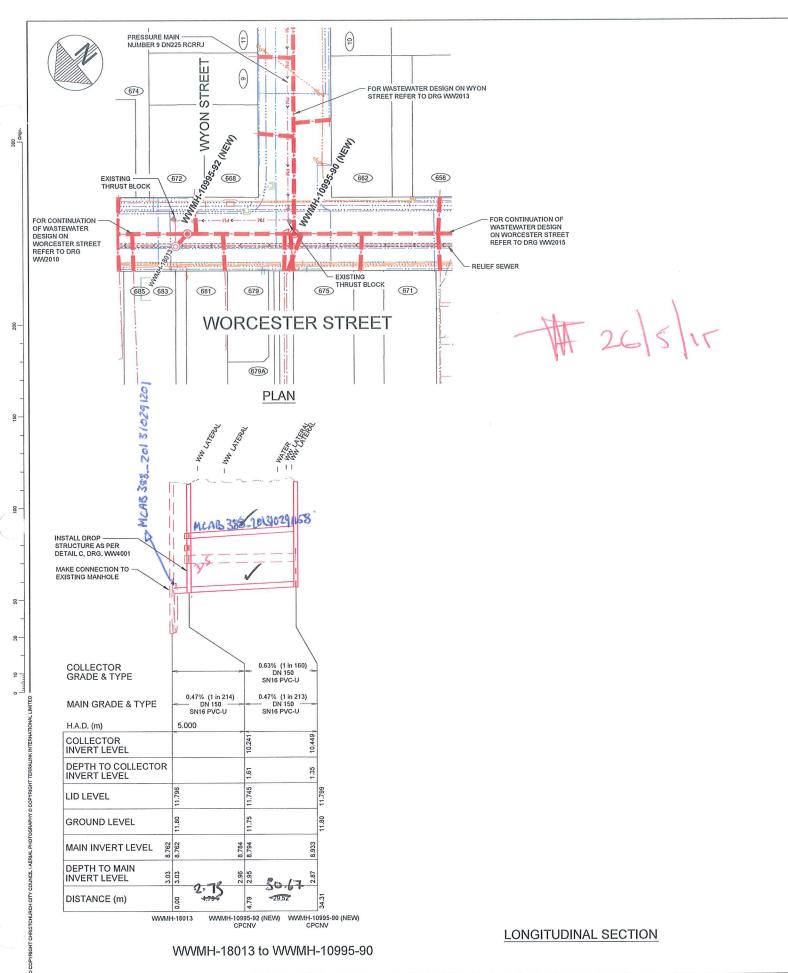
LOCATION OF SUMPS,

MANHOLES AND OUTLETS AS REQUIRED, AT THE TIME OF

CONSTRUCTION

SCIRT PROJECT REF. 10995	ORIGINAL SHEET SIZE	1:500 HORIZ 1:50 VERT
CPG CAD DRAWING FILE REF.		
CPG PROJECT FILE NUMBER		DRAWING No.
		WW2010





WATER SUPPLY WATER SUPPLY PREV. ABANDONED POWER (& High Voltage Indicated TELECOMS — EnFibre — FIBRE OPTIC NETWORK .PP POWER POLE owm ⊠ WATER SUPPLY VALVES FIRE HYDRAN MANHOLES SINGLE SUMP (SS), DOUBLE SUMP (DS) WWMH 17900 MANHOLE ID WASTEWATER DESIGN WASTEWATER WASTEWATER WASTEWATER (PRESSURE) WASTEWATER (RELINED) WASTEWATER LINE TO BE ABANDONED LONG SECTION VIEW WASTEWATER EXISTING WASTEWATER DESIGN EXISTING SURFACE DESIGN SURFACE 1. REFER TO CONSTRUCTION STANDARD SPECIFICATION

LEGEND

SERVICES

WASTEWATER · -- PM -- WASTEWATER (PRESSURE)

CSS PARTS 1-7 AND INFRASTRUCTURE DESIGN STANDARD (IDS) FOR STANDARD DETAILS AND SPECIFICATIONS. CONFIRM ALL PIPE / MANHOLE LEVELS AND LOCATIONS
 AFFECTING DESIGN PRIOR TO START OF CONSTRUCTIO

THE LEVELS AND LOCATIONS OF EXISTING SERVICES ARE APPROXIMATE ONLY, CARRY OUT FURTHER INVESTIGATION TO DETERMINE EXACT DEPTH AND LOCATION OF EXISTING SERVICES.

4. NOMINAL COVERS FOR SERVICES ARE: TELSTRA/TELCOM ORION

WATER SUBMAIN WATER MAIN 0.80 5. DISTANCES SHOWN ON LONG SECTIONS ARE BETWEEN THE CENTRELINE OF THE MANHOLES.

VERTICAL DATUM IS THE CHRISTOHURCH DRAINAGE DATUM (CDD). REFER TO SURVEY CONTROL PLAN FOR POSITION OF BMs AND LEVELS.

ALL COORDINATES ARE IN TERMS OF MT PLEASANT PROJECTION (NZGD2000).

8. LAY DN150 PVC-U COLLECTOR TO A MINIMUM GRADE OF 0.47% (1 in 213). MINIMUM COVER ON COLLECTOR IS 1.2m COLLECTOR TO MANHOLE CONNECTIONS AS SHOWN ON SHEET WW4001, COLLECTOR LEVELS ARE TO BE CONFIRMED FOLLOWING EXPOSURE OF PRIVATE

PROPERTY LATERALS AT BOUNDARY.

9. WASTEWATER LATERALS TO HAVE MINIMUM GRADE OF 1.25% (1 in 80) WITHIN THE ROAD CORRIDOR. LATERALS TO HAVE A MINIMUM GRADE OF 6.83% (1 in 120) WITHIN THE ROAD CORRIDOR. LATERALS TO HAVE A MINIMUM GRADE OF 6.83% (1 in 120) WITHIN PRIVATE PROPERTY.

ALL LATERAL CONNECTIONS ARE TO BE "CONNECTION BY RAMPED RISER" OR "CONNECTION TO 45" SIDE JUNCTION" AS PER SD363, VERTICAL RISER JUNCTIONS ARE NOT TO PER SD365.

 HAUNCHING TO CSS:SD344 / P.
 CONSTRUCTION AND INSTALLATION OF ALL NEW MANHOLES SHALL BE TO CSS:SD303 UNLESS STATED OTHERWISE.

PIPE JOINT WRAP DETAIL OF RUBBER RING JOINTED (RRJ) PIPE, REFER SHEET WW4001.

 WHERE EXISTING RCRRJ OR PVC PIPE IS EXPOSED, RECORD OBSERVATIONS OF THE CONDITION OF EXPOSED RECORD OBSERVATIONS OF THE CONDITION OF ALYOSED PIPE, JOINTS AND LATERALS USING THE "CONCURRENT WORKS DAMAGE INVESTIGATION FIELD FORM" AND PASS COMPLETED RECORDS BACK TO THE SCIRT DELIVERY TEAM MANAGER. DIRECT QUERIES TO YVONNE MACDONALD, PH. 021 279 6566.

15. WHERE AN EXISTING PIPE IS SPECIFIED FOR ABANDONMENT TREATMENT SHALL BE EITHER REMOVED OR TREATED AS FOLLOWS.

REMOVAL: ALL PIPES, INCLUDING LATERALS, SHALL BE REMOVED AND THE TRENCH BACKFILLED TO THE REQUIREMENTS OF CSS PART 1:27.0.

FILLED. FILLING SHALL BE WITH A FLOWABLE FILL OR CONCRETE WITH STRENGTH OF 1,5 MPa. THE VOLUME OF MATERIAL INSERTED INTO THE PIPE SHALL BE EQUAL TO OR GREATER THAN THE VOLUME OF PIPE TO BE ABANDONED, BEFORE FILLING COMMENCES AL CONNECTIONS TO THE PIPE SHALL BE SEALED OR THE VOLUME OF CONNECTED PIPES INCLUDED IN THE VOLUME OF MATERIAL INSERTED.

FOR CONSTRUCTION

Christchurch / New Zealand Government City Council

NAME SIGNED DATE APPROVED 
 DESIGNED
 C. Cadogan
 CC
 19.12.2012

 DES, REVIEW
 A. Ingles
 AJ
 19.12.2012

 DRAWN
 S. Sutton
 SS
 19.12.2012
 DATE 19,12.2012 GT DRW. CHECK N. Locke NBL 19.12.2012 DATE SIGNED

INFRASTRUCTURE REBUILD **AVONSIDE - LINWOOD STAGE 1** WORCESTER STREET

WASTEWATER PLAN & LONG SECTION

THE DESIGNER IS TO PROVIDE

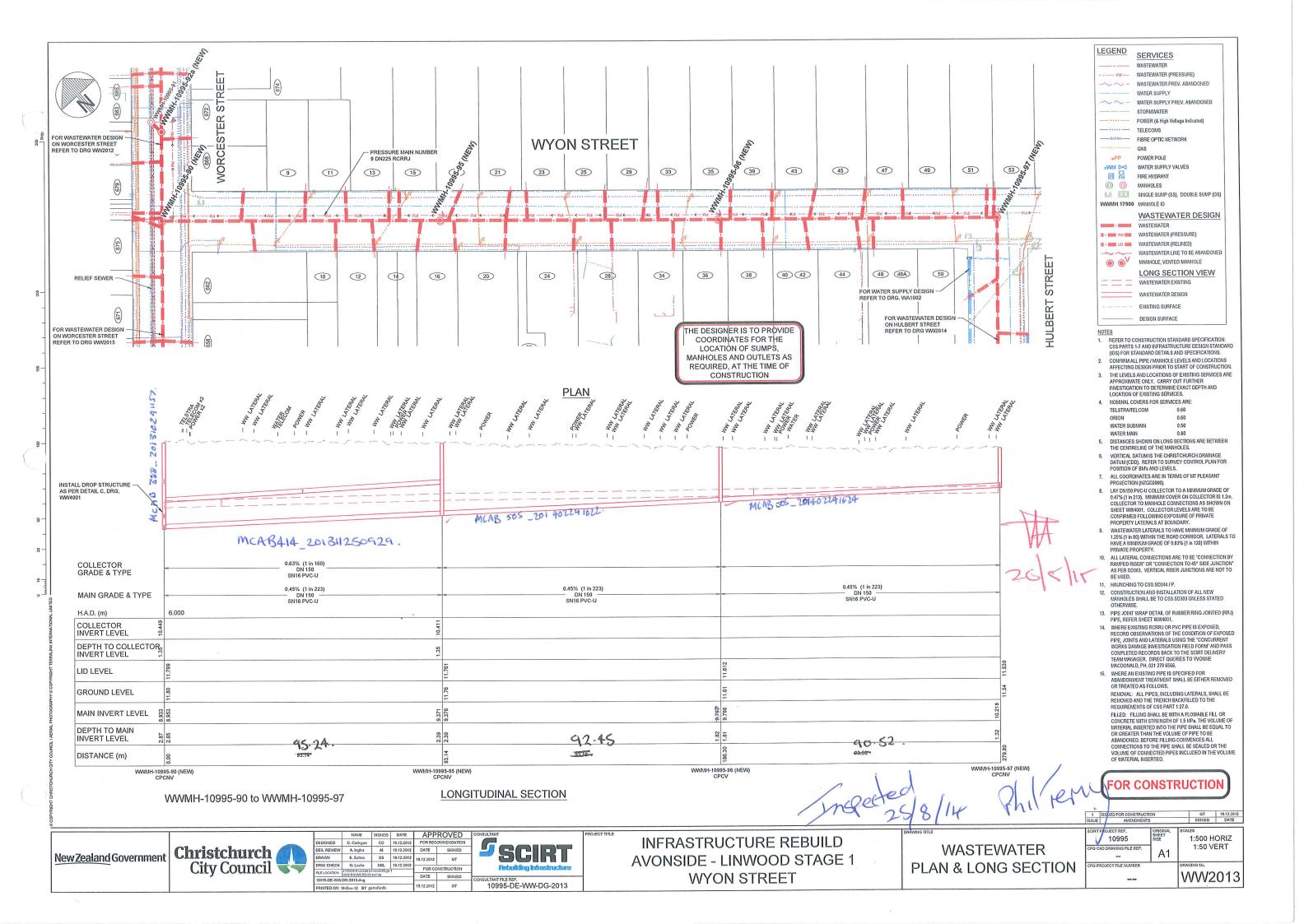
COORDINATES FOR THE LOCATION OF SUMPS,

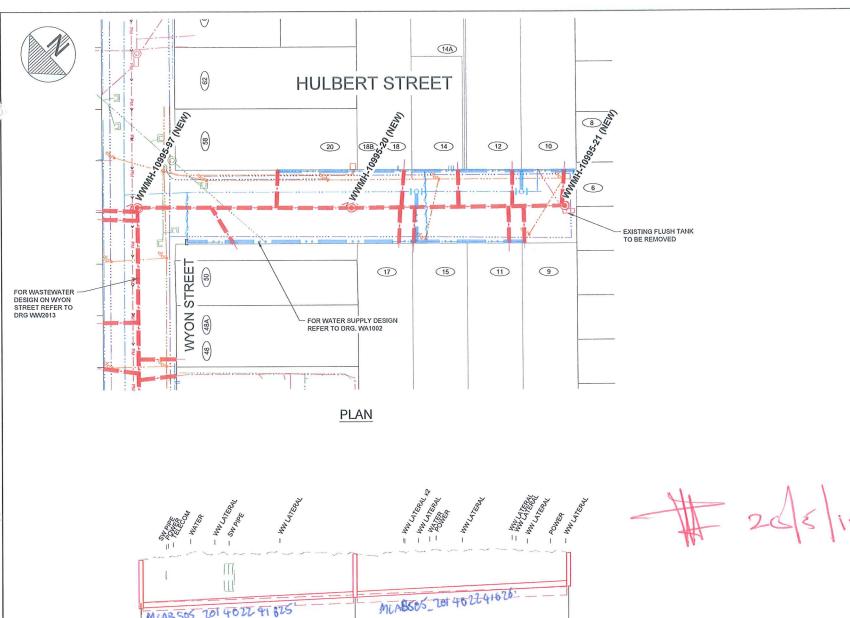
MANHOLES AND OUTLETS AS

REQUIRED, AT THE TIME OF

1:500 HORIZ 10995 A1

1:50 VERT WW2012





MEAB 505, 201 4022 41 825 SN16 PVC-U H.A.D. (m) 6,000 LID LEVEL GROUND LEVEL MAIN INVERT LEVEL 58·11 57.40 DISTANCE (m) WWMH-10995-21 (NEW) CPCNV

WWMH-10995-97 to WWMH-10995-21

LONGITUDINAL SECTION

Insperied 25/8/14

THE DESIGNER IS TO PROVIDE COORDINATES FOR THE LOCATION OF SUMPS, MANHOLES AND OUTLETS AS REQUIRED, AT THE TIME OF CONSTRUCTION

LEGEND SERVICES POWER (& High Voltage Indicated) FIBRE OPTIC NETWORK POWER POLE «wm ⊠ WATER SUPPLY VALVES SINGLE SUMP (SS), DOUBLE SUMP (DS) WWMH 17900 MANHOLE ID WASTEWATER DESIGN WASTEWATER (PRESSURE) WASTEWATER (RELINED) LONG SECTION VIEW WASTEWATER EXISTING WASTEWATER DESIGN EXISTING SURFACE

- REFER TO CONSTRUCTION STANDARD SPECIFICATION:
   CSS PARTS 1-7 AND INFRASTRUCTURE DESIGN STANDARD
   (IDS) FOR STANDARD DETAILS AND SPECIFICATIONS.
- 3. THE LEVELS AND LOCATIONS OF EXISTING SERVICES ARE INVESTIGATION TO DETERMINE EXACT DEPTH AND
- 4. NOMINAL COVERS FOR SERVICES ARE: TELSTRA/TELCOM

ORION WATER MAIN

- 5. DISTANCES SHOWN ON LONG SECTIONS ARE BETWEEN THE CENTRELINE OF THE MANHOLES.
- VERTICAL DATUM IS THE CHRISTCHURCH DRAINAGE DATUM (CDD). REFER TO SURVEY CONTROL PLAN FOR POSITION OF BMs AND LEVELS.
- 7. ALL COORDINATES ARE IN TERMS OF MT PLEASANT PROJECTION (NZGD2000).
- RACECTION (IRSUSSION)

  8. LAY DN150 PVC-U COLLECTOR TO A MINIMUM GRADE OF
  0.47% (1 in 213). MINIMUM COVER ON COLLECTOR IS 1.2m.
  COLLECTOR TO MAIHOLE CONNECTIONS AS SHOWN ON
  SHEET WW4001. COLLECTOR LEVELS ARE TO BE CONFIRMED FOLLOWING EXPOSURE OF PRIVATE PROPERTY LATERALS AT BOUNDARY.
- 9. WASTEWATER LATERALS TO HAVE MINIMUM GRADE OF 1,25% (1 in 80) WITHIN THE ROAD CORRIDOR. LATERALS TO HAVE A MINIMUM GRADE OF 0.83% (1 in 120) WITHIN PRIVATE PROPERTY.
- ALL LATERAL CONNECTIONS ARE TO BE "CONNECTION BY RAMPED RISER" OR "CONNECTION TO 45" SIDE JUNCTION" AS PER SD33, VERTICAL RISER JUNCTIONS ARE NOT TO BE LECT.
- HAUNCHING TO CSS:SD344 / P.
   CONSTRUCTION AND INSTALLATION OF ALL NEW MANHOLES SHALL BE TO CSS:SD303 UNLESS STATED
- PIPE JOINT WRAP DETAIL OF RUBBER RING JOINTED (RRJ) PIPE, REFER SHEET WW4001.
- 14. WHERE EXISTING RCRRJ OR PVC PIPE IS EXPOSED WHERE EXISTING FORCER OF A PUPE IS EXPOSED FOR ECORD OBSERVATIONS OF THE CONDITION OF EXPOSED PIPE, JOHNTS AND LATERALS USING THE 'CONCURRENT WORKS DAMAGE INVESTIGATION FIELD FORM' AND PASS COMPLETED RECORDS BACK TO THE SCRIT DELIVERY TEAM MANAGER. DIRECT QUERIES TO YVONNIE MACDONALD, PH. 021 279 6568.
- 15 WHERE AN EXISTING PIPE IS SPECIFIED FOR ABANDONMENT TREATMENT SHALL BE EITHER REMOVED OR TREATED AS FOLLOWS.

OR TREATED AS FOLLOWS.

REMOVAL: ALL PIPES, INCLUDING LATERALS, SHALL BE REMOVED AND THE TRENCH BACKFILLED TO THE REQUIREMENTS OF CSS PART 1:27.0. REQUIREMENTS OF CSS PART 127.0.

FILLED: FILLING SHALL BE WITH A FLOWABLE FILL OR CONCRETE WITH STRENGTH OF 1.5 MPa. THE VOLUME OF MATERIAL INSERTED INTO THE PIPE SHALL BE EQUAL TO OR GREATER THAN THE VOLUME OF PIPE TO BE ABANDONED. BEFORE FILLING COMMENCES ALL CONNECTIONS TO THE PIPE SHALL BE SEALED OR THE VOLUME OF CONNECTED PIPES INCLUDED IN THE VOLUME OF MATERIAL INSERTED.

FOR CONSTRUCTION

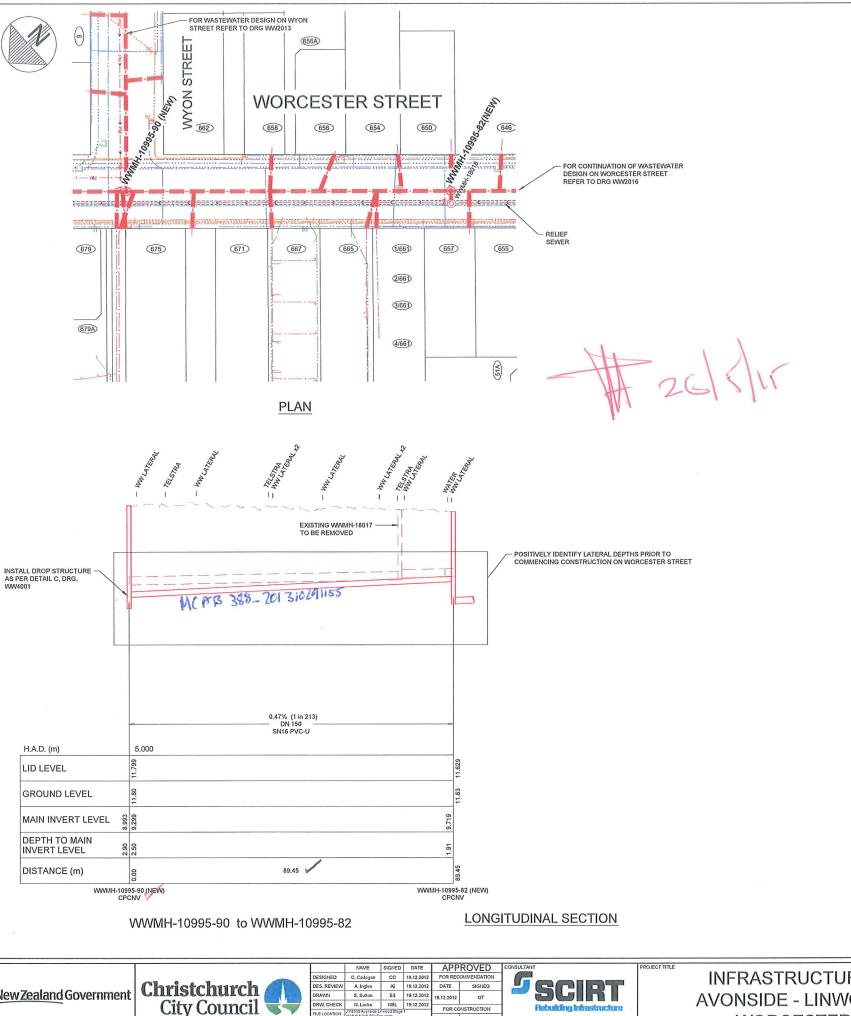
Christchurch / New Zealand Government City Council

NAME SIGNED DATE APPROVED CONSULTANT | DESIGNED | C. Cadogan | CC | 19.12.2012 | FOR RECORDES, REVIEW | A. Ingles | AI | 19.12.2012 | DATE | DRAWN | S. Sutton | SS | 19.12.2012 | 19.12.2012 | DATE SIGNED DATE SIGNED

INFRASTRUCTURE REBUILD **AVONSIDE - LINWOOD STAGE 1 HULBERT STREET** 

WASTEWATER PLAN & LONG SECTION

1:500 HORIZ 10995 1:50 VERT A1 WW2014



phi resulting

THE DESIGNER IS TO PROVIDE COORDINATES FOR THE LOCATION OF SUMPS, MANHOLES AND OUTLETS AS REQUIRED, AT THE TIME OF CONSTRUCTION

LEGEND WASTEWATER PM — WASTEWATER (PRESSURE) — WASTEWATER PREV. ABANDONED WATER SUPPLY STORMWATER POWER (& High Voltage Indicated) TELECOMS -EnFibre -- FIBRE OPTIC NETWORK GAS POWER POLE oWM D⊲ WATER SUPPLY VALVES 田品 FIRE HYDRANT MANHOLES SINGLE SUMP (SS), DOUBLE SUMP (DS) WWMH 17900 MANHOLE ID WASTEWATER DESIGN WASTEWATER WASTEWATER (PRESSURE) WASTEWATER (RELINED) WASTEWATER LINE TO BE ABANDONED EXISTING SURFACE

- 1. REFER TO CONSTRUCTION STANDARD SPECIFICATION CSS PARTS 1-7 AND INFRASTRUCTURE DESIGN STANDARD (IDS) FOR STANDARD DETAILS AND SPECIFICATIONS.
- 2. CONFIRM ALL PIPE / MANHOLE LEVELS AND LOCATIONS AFFECTING DESIGN PRIOR TO START OF CONSTRUCTION
- THE LEVELS AND LOCATIONS OF EXISTING SERVICES ARE APPROXIMATE ONLY, CARRY OUT FURTHER INVESTIGATION TO DETERMINE EXACT DEPTH AND LOCATION OF EXISTING SERVICES.
- 4. NOMINAL COVERS FOR SERVICES ARE: TELSTRATELCOM

WATER SUBMAIN WATER MAIN

- 5. DISTANCES SHOWN ON LONG SECTIONS ARE BETWEEN THE CENTRELINE OF THE MANHOLES.
- VERTICAL DATUM IS THE CHRISTCHURCH DRAINAGE
   DATUM (CDD). REFER TO SURVEY CONTROL PLAN FOR
   POSITION OF BMs AND LEVELS.
- ALL COORDINATES ARE IN TERMS OF MT PLEASANT PROJECTION (NZGD2000).
- 8. LAY DN150 PVC-U COLLECTOR TO A MINIMUM GRADE OF 0.47% (1 in 213). MINIMUM COVER ON COLLECTOR IS 1.2m. COLLECTOR TO MANHOLE CONNECTIONS AS SHOWN ON SHEET WW4001, COLLECTOR LEVELS ARE TO BE CONFIRMED FOLLOWING EXPOSURE OF PRIVATE
- 9. WASTEWATER LATERALS TO HAVE MINIMUM GRADE OF 1.25% (1 in 80) WITHIN THE ROAD CORRIDOR. LATERALS TO HAVE A MINIMUM GRADE OF 0.83% (1 in 120) WITHIN PRIVATE PROPERTY
- NAL LATERAL CONNECTIONS ARE TO BE "CONNECTION BY RAMPED RISER" OR "CONNECTION TO 45" SIDE JUNCTION" AS PER SD363, VERTICAL RISER JUNCTIONS ARE NOT TO BE USED.
- 11. HAUNCHING TO CSS:SD344 / P.
- CONSTRUCTION AND INSTALLATION OF ALL NEW
   MANHOLES SHALL BE TO CSS:SD303 UNLESS STATED
   OTHERWISE.
- PIPE JOINT WRAP DETAIL OF RUBBER RING JOINTED (RRJ) PIPE, REFER SHEET WW4001.
- 14. WHERE EXISTING RORRU OR PVC PIPE IS EXPOSED,
  RECORD OBSERVATIONS OF THE CONDITION OF EXPOSED
  PIPE, JOINTS AND LATERAL SUSING THE "CONCURRENT
  WORKS DAMAGE INVESTIGATION FIELD FORM" AND PASS
  COMPLETED RECORDS BACK TO THE SCIRT DELIVERY
  TEAM MANAGER. DIRECT QUERIES TO YVONINE
  MACDONALD, PH. 021 279 6596.
- 15. WHERE AN EXISTING PIPE IS SPECIFIED FOR ABANDONMENT TREATMENT SHALL BE EITHER REMOVED

REMOVAL: ALL PIPES, INCLUDING LATERALS, SHALL BE REMOVED AND THE TRENCH BACKFILLED TO THE REQUIREMENTS OF CSS PART 1:27.0. FILLED: FILLING SHALL BE WITH A FLOWABLE FILL OR CONCRETE WITH STRENGTH OF 1.5 MPa, THE VOLUME OF MATERIAL INSERTED INTO THE PIPE SHALL BE EQUAL TO

OR GREATER THAN THE VOLUME OF PIPE TO BE ABANDONED, BEFORE FILLING COMMENCES ALL CONNECTIONS TO THE PIPE SHALL BE SEALED OR THE VOLUME OF CONNECTED PIPES INCLUDED IN THE VOLUME OF MATERIAL INSERTED.

FOR CONSTRUCTION

A1

New Zealand Government



SULTANT FILE REF. 10995-DE-WW-DG-2015

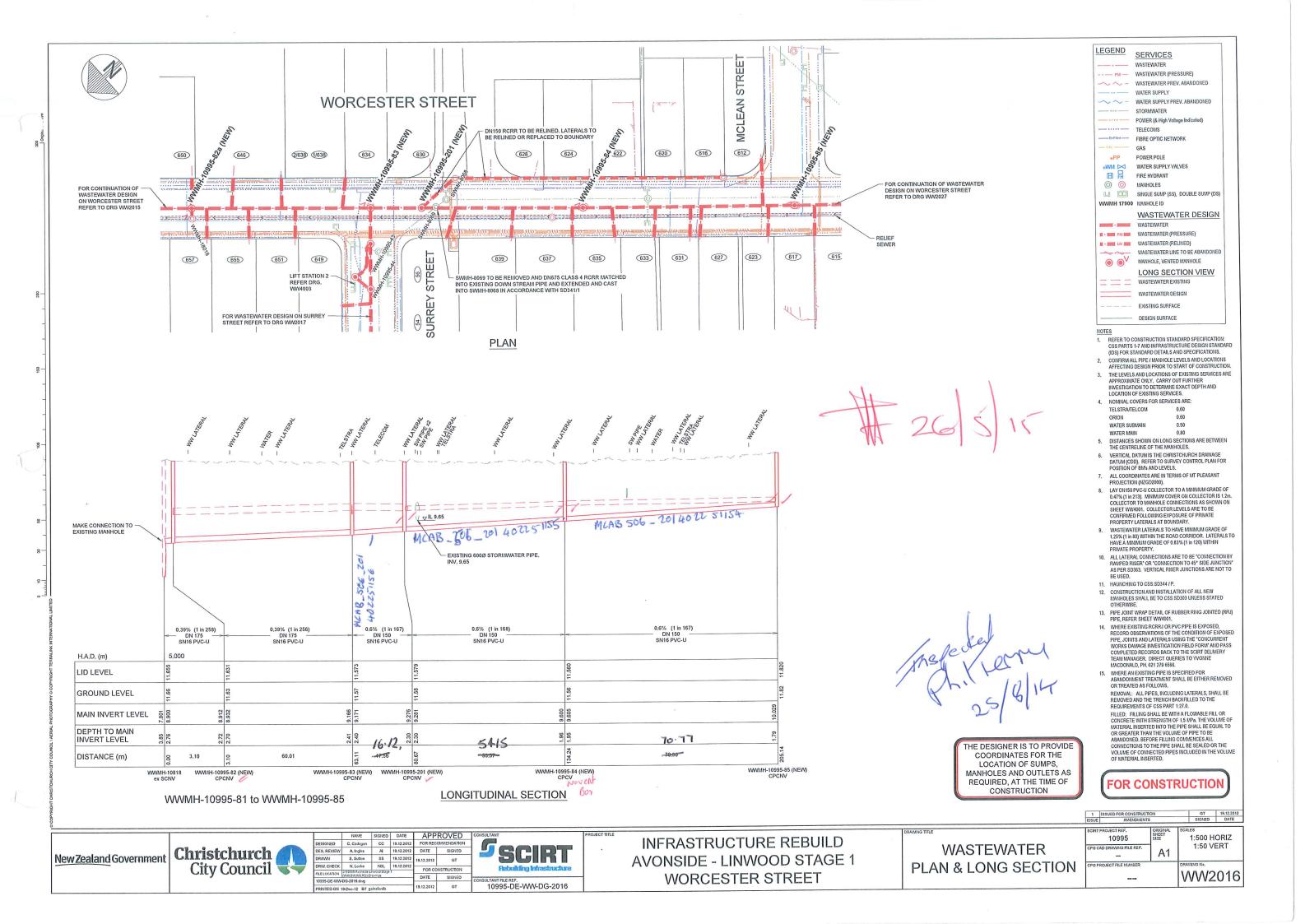
INFRASTRUCTURE REBUILD **AVONSIDE - LINWOOD STAGE 1** WORCESTER STREET

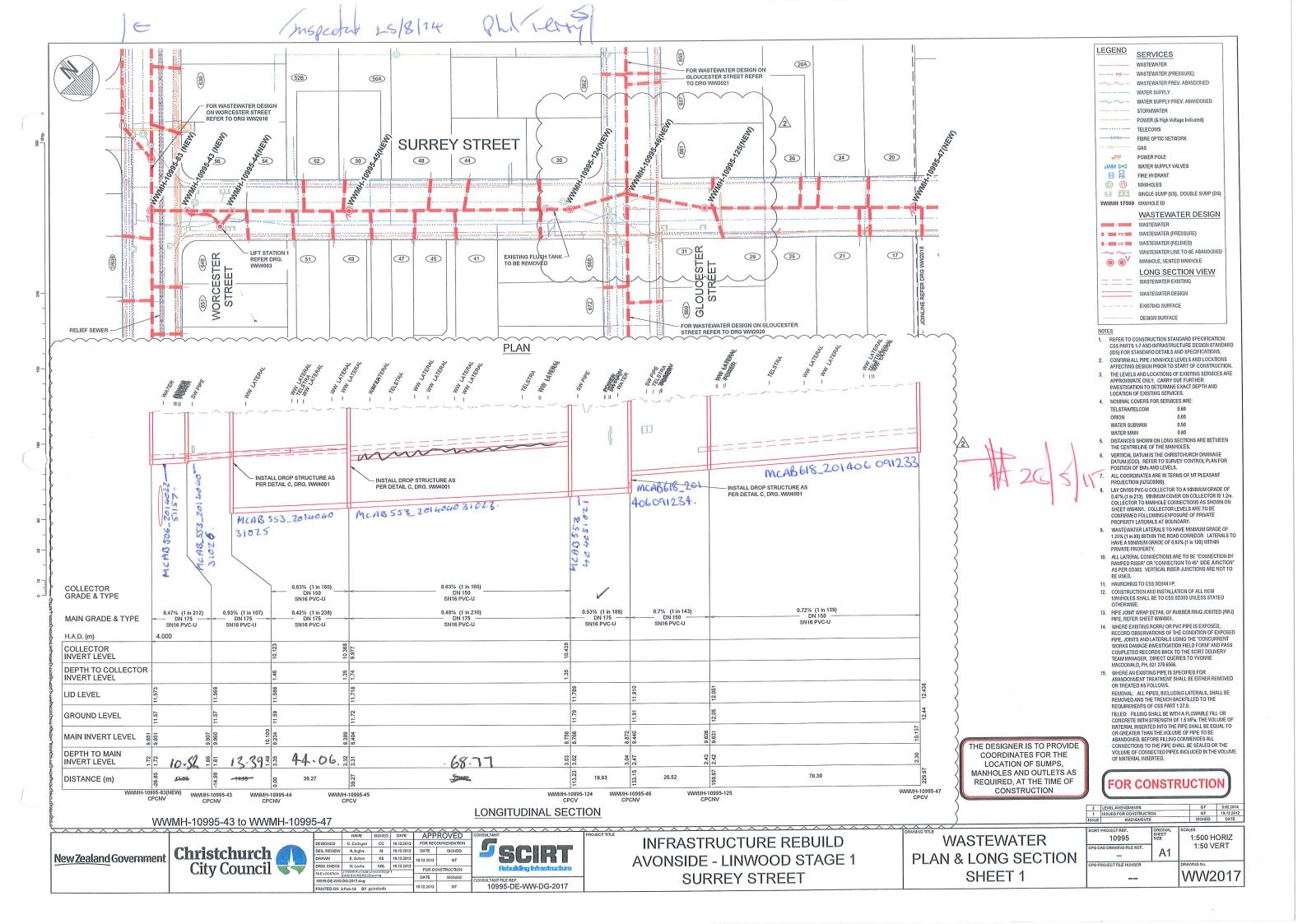
WASTEWATER PLAN & LONG SECTION

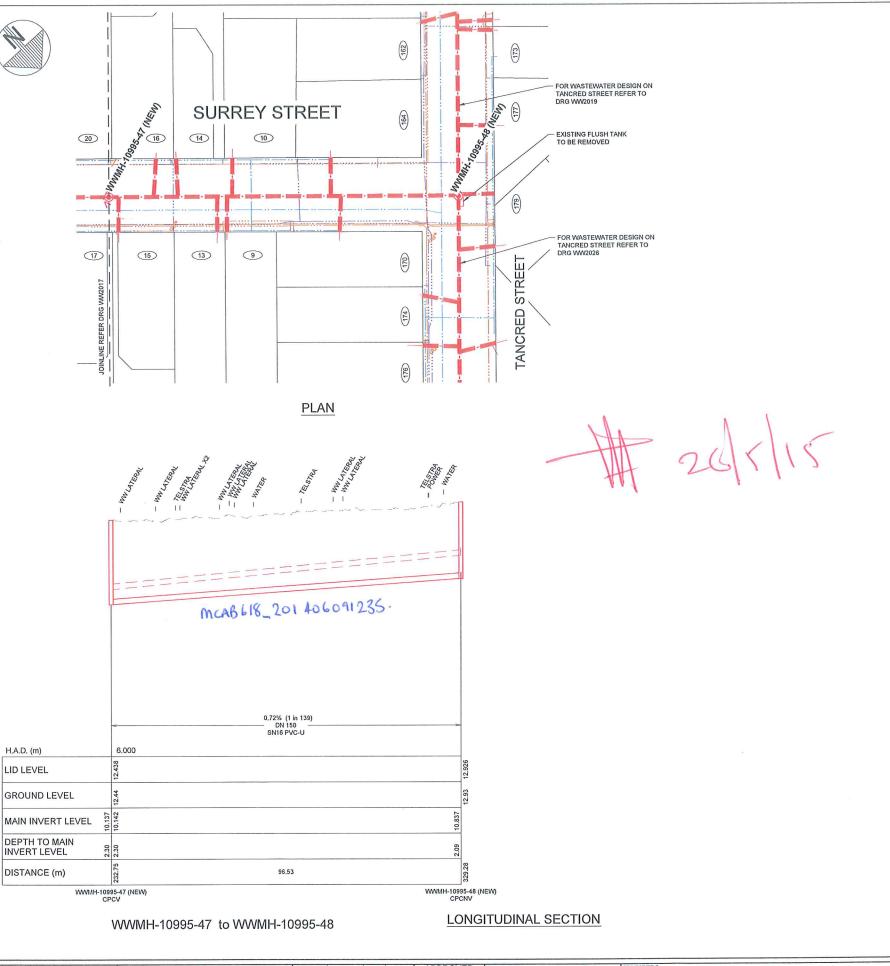
	10995
	CPG CAD DRAWING FILE REF.
ON	CPG PROJECT FILE NUMBER

1:500 HORIZ

WW2015







SERVICES WASTEWATER · — PM — WASTEWATER (PRESSURE) WATER SUPPLY ---- STORMWATER POWER (& High Voltage Indicated) ···· TELECOMS FIBRE OPTIC NETWORK GAS PP POWER POLE WATER SUPPLY VALVES MANHOLES SINGLE SUMP (SS), DOUBLE SUMP (DS WWMH 17900 MANHOLE ID WASTEWATER DESIGN WASTEWATER WASTEWATER (PRESSURE) WASTEWATER (RELINED) WASTEWATER LINE TO BE ABANDONED MANHOLE, VENTED MANHOLE EXISTING SURFACE DESIGN SURFACE

- REFER TO CONSTRUCTION STANDARD SPECIFICATION:
   CSS PARTS 1-7 AND INFRASTRUCTURE DESIGN STANDARD
   (IDS) FOR STANDARD DETAILS AND SPECIFICATIONS.
- 2. CONFIRM ALL PIPE / MANHOLE LEVELS AND LOCATIONS
- THE LEVELS AND LOCATIONS OF EXISTING SERVICES ARE APPROXIMATE ONLY. CARRY OUT FURTHER INVESTIGATION TO DETERMINE EXACT DEPTH AND LOCATION OF EXISTING SERVICES.
- 4. NOMINAL COVERS FOR SERVICES ARE: TELSTRA/TELCOM

WATER SUBMAIN

- 5. DISTANCES SHOWN ON LONG SECTIONS ARE BETWEEN THE CENTRELINE OF THE MANHOLES.
- VERTICAL DATUM IS THE CHRISTCHURCH DRAINAGE DATUM (CDD). REFER TO SURVEY CONTROL PLAN FOR POSITION OF BM's AND LEVELS.
- ALL COORDINATES ARE IN TERMS OF MT PLEASANT PROJECTION (IZGD2000).

   LAY DN150 PVC-U COLLECTOR TO A MINIMUM GRADE OF
- LAY DN159 PVC-U COLLECTOR TO A MINIMUM AGADE OF 0.47% (In 213). MINIMUM COVER ON FOLLECTOR IS 1.2m. COLLECTOR TO MANHOLE CONNECTIONS AS SHOWN ON SHEET WW4001. COLLECTOR LEVELS ARE TO BE CONFIRMED FOLLOWING EXPOSURE OF PRIVATE PROPERTY LATERALS AT BOUNDARY.
- 9. WASTEWATER LATERALS TO HAVE MINIMUM GRADE OF 1.25% (1 in 80) WITHIN THE ROAD CORRIDOR. LATERALS TO HAVE A MINIMUM GRADE OF 0.83% (1 in 120) WITHIN PRIVATE PROPERTY
- 10. ALL LATERAL CONNECTIONS ARE TO BE "CONNECTION BY RAMPED RISER" OR "CONNECTION TO 45° SIDE JUNCTION" AS PER SD363, VERTICAL RISER JUNCTIONS ARE NOT TO
- 11. HAUNCHING TO CSS:SD344 / P.
- 12. CONSTRUCTION AND INSTALLATION OF ALL NEW MANHOLES SHALL BE TO CSS:SD303 UNLESS STATED OTHERWISE.
- 13. PIPE JOINT WRAP DETAIL OF RUBBER RING JOINTED (RRJ) PIPE, REFER SHEET WW4001.
- 14. WHERE EXISTING RORRJ OR PVO PIPE IS EXPOSED,
  RECORD OBSERVATIONS OF THE CONDITION OF EXPOSED
  PIPE, JOINTS AND LATERALS USING THE "CONCURRENT
  WORKS DAMAGE INVESTIGATION FIELD FORM" AND PASS
  COMPLETED RECORDS BACK TO THE SCIRT DELIVERY
  TEAM MANAGER, DIRECT QUERIES TO YVONNE

  MACQUAID, PM 403 226 5556 MACDONALD, PH. 021 279 6566.
  - WHERE AN EXISTING PIPE IS SPECIFIED FOR ABANDONMENT TREATMENT SHALL BE EITHER REMOVED OR TREATED AS FOLLOWS.

REMOVAL: ALL PIPES, INCLUDING LATERALS, SHALL BE REMOVED AND THE TRENCH BACKFILLED TO THE

REMOVED AND THE IRENOH BACKFILLED TO THE REQUIREMENTS OF CSS PART 127.0.

FILLED: FILLING SHALL BE WITH A FLOWABLE FILL OR CONCRETE WITH STRENGTH OF 1.5 MPa. THE VOLUME OF MATERIAL INSERTED INTO THE PIPE SHALL BE EQUAL TO OR GREATER THAN THE VOLUME OF PIPE TO BE ABANDONED, BEFORE FILLING COMMENCES ALL CONNECTIONS TO THE PIPE SHALL BE SEALED OR THE VOLUME OF CONNECTED PIPES INCLUDED IN THE VOLUME OF MATERIAL INSERTED.

FOR CONSTRUCTION

New Zealand Government

Christchurch City Council

NAME SIGNED DATE APPROVED 
 DESIGNED
 C. Cadegan
 CC
 19.12.2012
 FOR RECOM

 DES. REVIEW
 A. Ingles
 AI
 19.12.2012
 DATE

 DRAWN
 S. Sutton
 SS
 19.12.2012
 19.12.2012

 J. L. 1.2.2012
 J. 1.2.2012
 19.12.2012
 DATE SIGNED GT N. Locke NBL 19.12.2012 -110995 Avenside Linwood Stage 1 FOR CONSTRUCTION

INFRASTRUCTURE REBUILD SURREY STREET

WASTEWATER PLAN & LONG SECTION SHEET 2

THE DESIGNER IS TO PRÓVIDE

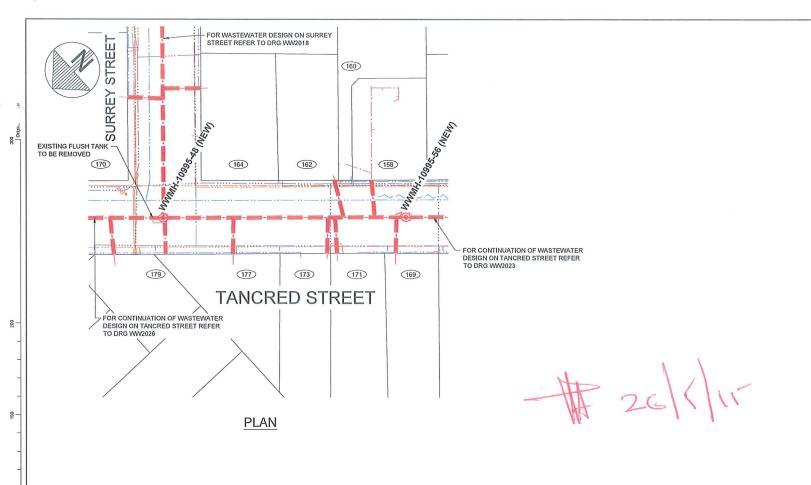
COORDINATES FOR THE

LOCATION OF SUMPS. MANHOLES AND OUTLETS AS REQUIRED, AT THE TIME OF

CONSTRUCTION

SCIRT PROJECT REF.  10995  CPG CAD DRAWING FILE REF.	ORIGINAL SHEET SIZE	1:500 HORIZ 1:50 VERT
CPG PROJECT FILE NUMBER		WW201

**AVONSIDE - LINWOOD STAGE 1** 



MCAB644\_201407070847 0.72% (1 in 139) — DN 150 — SN16 PVC-U H.A.D. (m) 7.000 LID LEVEL GROUND LEVEL MAIN INVERT LEVEL DEPTH TO MAIN INVERT LEVEL DISTANCE (m) 66.69 WWMH-10995-48 (NEW) CPCNV

WWMH-10995-48 to WWMH-10995-56a

LONGITUDINAL SECTION

THE DESIGNER IS TO PROVIDE COORDINATES FOR THE LOCATION OF SUMPS. MANHOLES AND OUTLETS AS REQUIRED, AT THE TIME OF CONSTRUCTION

LEGEND SERVICES WASTEWATER · — PM — WASTEWATER (PRESSURE) — WASTEWATER PREV, ABANDONED WATER SUPPLY WATER SUPPLY PREV. ABANDONED STORMWATER POWER (& High Voltage Indicated) TELECOMS FIBRE OPTIC NETWORK GAS ·PP POWER POLE oWM D⊲ WATER SUPPLY VALVES 田品 FIRE HYDRANT MANHOLES SINGLE SUMP (SS), DOUBLE SUMP (DS) WWMH 17900 MANHOLE ID WASTEWATER DESIGN WASTEWATER WASTEWATER (PRESSURE) WASTEWATER (RELINED) WASTEWATER LINE TO BE ABANDON MANHOLE, VENTED MANHOLE LONG SECTION VIEW EXISTING SURFACE DESIGN SURFACE

- REFER TO CONSTRUCTION STANDARD SPECIFICATION:
   CSS PARTS 1-7 AND INFRASTRUCTURE DESIGN STANDARD
   (IDS) FOR STANDARD DETAILS AND SPECIFICATIONS.
- 2. CONFIRM ALL PIPE / MANHOLE LEVELS AND LOCATIONS AFFECTING DESIGN PRIOR TO START OF CONSTRUCTION.
- INVESTIGATION TO DETERMINE EXACT DEPTH AND
- LOCATION OF EXISTING SERVICES. 4. NOMINAL COVERS FOR SERVICES ARE: TELSTRA/TELCOM

WATER SUBMAIN 0,50 WATER MAIN

- DISTANCES SHOWN ON LONG SECTIONS ARE BETWEEN
  THE CENTRELINE OF THE MANHOLES.
   VERTICAL DATUMIS THE CHRISTCHURCH DRAINAGE

  OF THE PROPERTY OF THE PROPE
- DATUM (CDD). REFER TO SURVEY CONTROL PLAN FOR POSITION OF BM's AND LEVELS.
- ALL COORDINATES ARE IN TERMS OF MT PLEASANT PROJECTION (NZGD2000).
- RADECTION (INSUREDUCE).

  LAY DN150 PVC-U COLLECTOR TO A MINIMUM GRADE OF 0.47% (1 in 213). MINIMUM COVER ON COLLECTOR IS 1.2m. COLLECTOR TO MANHOLE CONNECTIONS AS SHOWN ON SHEET WWW901, COLLECTOR LEVELS ARE TO BE CONFIRMED FOLLOWING EXPOSURE OF PRIVATE PROPERTY LATERALS AT BOUNDARY.
- 9. WASTEWATER LATERALS TO HAVE MINIMUM GRADE OF 1.25% (1 in 80) WITHIN THE ROAD CORRIDOR. LATERALS TO HAVE A MINIMUM GRADE OF 0.83% (1 in 120) WITHIN PRIVATE PROPERTY.

  10. ALL LATERAL CONNECTIONS ARE TO BE "CONNECTION BY
- RAMPED RISER\* OR \*CONNECTION TO 45\* SIDE JUNCTION\* AS PER SD363, VERTICAL RISER JUNCTIONS ARE NOT TO BE USED.
- 11. HAUNCHING TO CSS:SD344 / P.
- 12. CONSTRUCTION AND INSTALLATION OF ALL NEW MANHOLES SHALL BE TO CSS:SD303 UNLESS STATED OTHERWISE.
- 13. PIPE JOINT WRAP DETAIL OF RUBBER RING JOINTED (RRJ)
  PIPE, REFER SHEET WW4001.
- COMPLETED RECORDS BACK TO THE SCIRT DELIVERY TEAM MANAGER. DIRECT QUERIES TO YVONNE MACDONALD, PH. 021 279 6566.
- WHERE AN EXISTING PIPE IS SPECIFIED FOR
   ABANDONMENT TREATMENT SHALL BE EITHER REMOVED
   OR TREATED AS FOLLOWS.

REMOVAL: ALL PIPES, INCLUDING LATERALS, SHALL BE REMOVED AND THE TRENCH BACKFILLED TO THE REQUIREMENTS OF CSS PART 1:27.0. FILLED: FILLING SHALL BE WITH A FLOWABLE FILL OR

MATERIAL INSERTED INTO THE PIPE SHALL BE EQUAL TO OR GREATER THAN THE VOLUME OF PIPE TO BE ARANDONED REFORE FILLING COMMENCES ALL CONNECTIONS TO THE PIPE SHALL BE SEALED OR THE VOLUME OF CONNECTED PIPES INCLUDED IN THE VOLUME

FOR CONSTRUCTION

New Zealand Government

Christchurch City Council

19.12.2012 DRW. CHECK N. Locke NBL 19.12.2012

FILE LOCATION JAILOSS Avonside Linwood Stage 1

WWW SWINS RD Drawfood FOR CONSTRUCTION DATE SIGNED 10995-DE-WW-DG-2019 19.12.2012

INFRASTRUCTURE REBUILD **AVONSIDE - LINWOOD STAGE 1** TANCRED STREET

PLAN

WASTEWATER				
8 N	LONG SECTION			

SCIRT PROJECT REF. 10995  CPG CAD DRAWING FILE REF	ORIGINAL SHEET SIZE	1:500 HORIZ 1:50 VERT
CPG PROJECT FILE NUMBER		WW2019

