

LOCALITY PLAN
SCALE 1:1500



▪ CIVIL WATER

Project No 3364410

HAYTONS ROAD WASTEWATER RENEWALS

CONSTRUCTION ISSUE

Prepared for



By
Beca

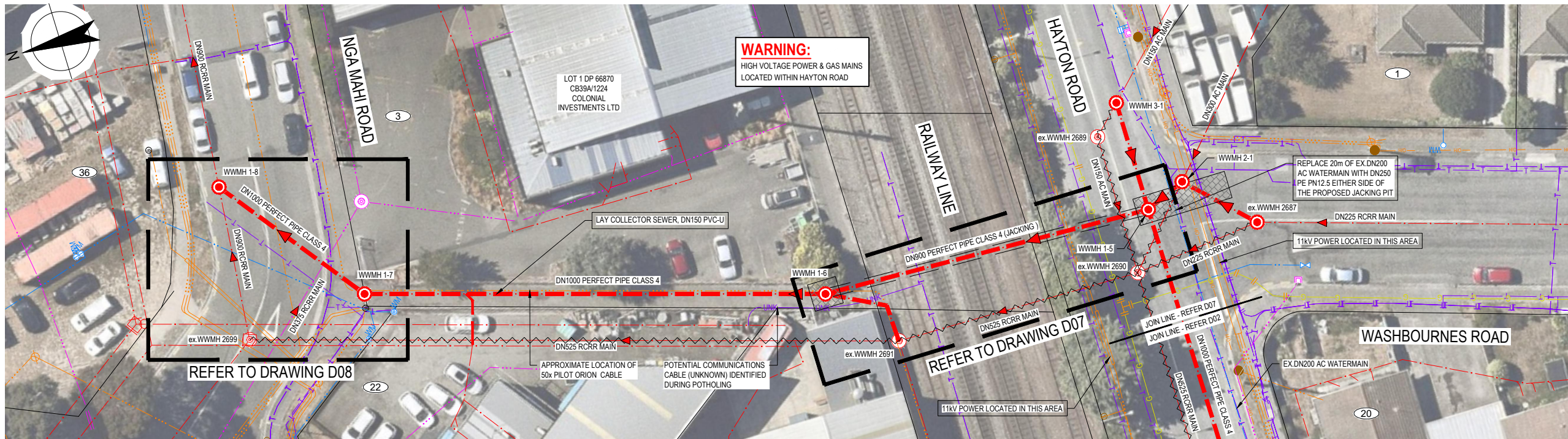
JULY 2021

SCHEDULE OF DRAWINGS		DAY	4	06
FILE REFERENCE	DRAWING DESCRIPTION	MONTH	12	07
		YEAR	20	21
D00	LOCALITY PLAN AND DRAWING LIST	0	1	
D01	HAYTON ROAD TO NGA MAHI ROAD PLAN AND LONG SECTION - SHEET 1	0	1	
D02	HAYTON ROAD TO NGA MAHI ROAD PLAN AND LONG SECTION - SHEET 2	0	1	
D03	HAYTON ROAD TO NGA MAHI ROAD PLAN AND LONG SECTION - SHEET 3	0	1	
D04	HAYTON ROAD TO NGA MAHI ROAD PLAN AND LONG SECTION - SHEET 4	0	1	
D05	HAYTON ROAD TO NGA MAHI ROAD PLAN AND LONG SECTION - SHEET 5	0	1	
D06	HAYTONS ROAD EXISTING MANHOLE DETAIL - SHEET 1	0	1	
D07	HAYTON ROAD KIWI RAIL CROSSING PLAN AND LONG SECTION	0	1	
D08	NGA MAHI ROAD MANHOLE PLAN & DETAILS	0	1	
D09	WASTEWATER MANHOLE DETAILS - SHEET 1	0	1	
D10	WASTEWATER MANHOLE DETAILS - SHEET 2	0	1	
D11	WASTEWATER TRENCH DETAIL - SHEET 1	0	1	
STRUCTURAL DRAWINGS				
D15	NGA MAHI ROAD MANHOLE PLAN, SECTIONS & DETAILS	0	1	
D16	NGA MAHI ROAD WALL REINFORCEMENT	0	1	
D17	NGA MAHI ROAD WALL REINFORCEMENT DETAILS - SHEET 1	0	1	
D18	NGA MAHI ROAD WALL REINFORCEMENT DETAILS - SHEET 2	0	1	
D19	NGA MAHI ROAD ROOF SLAB PLAN AND SECTIONS	0	1	

ASBUILT
06/03/2023
Joshua Morgan



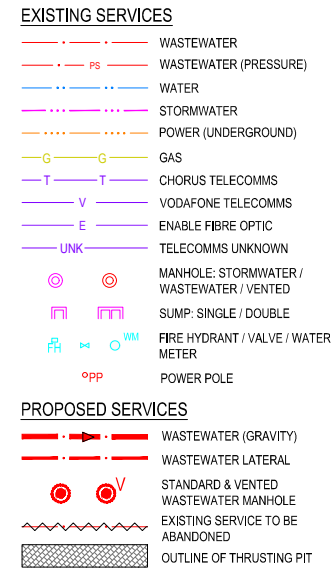
Drawing No.	D00	Rev.	1
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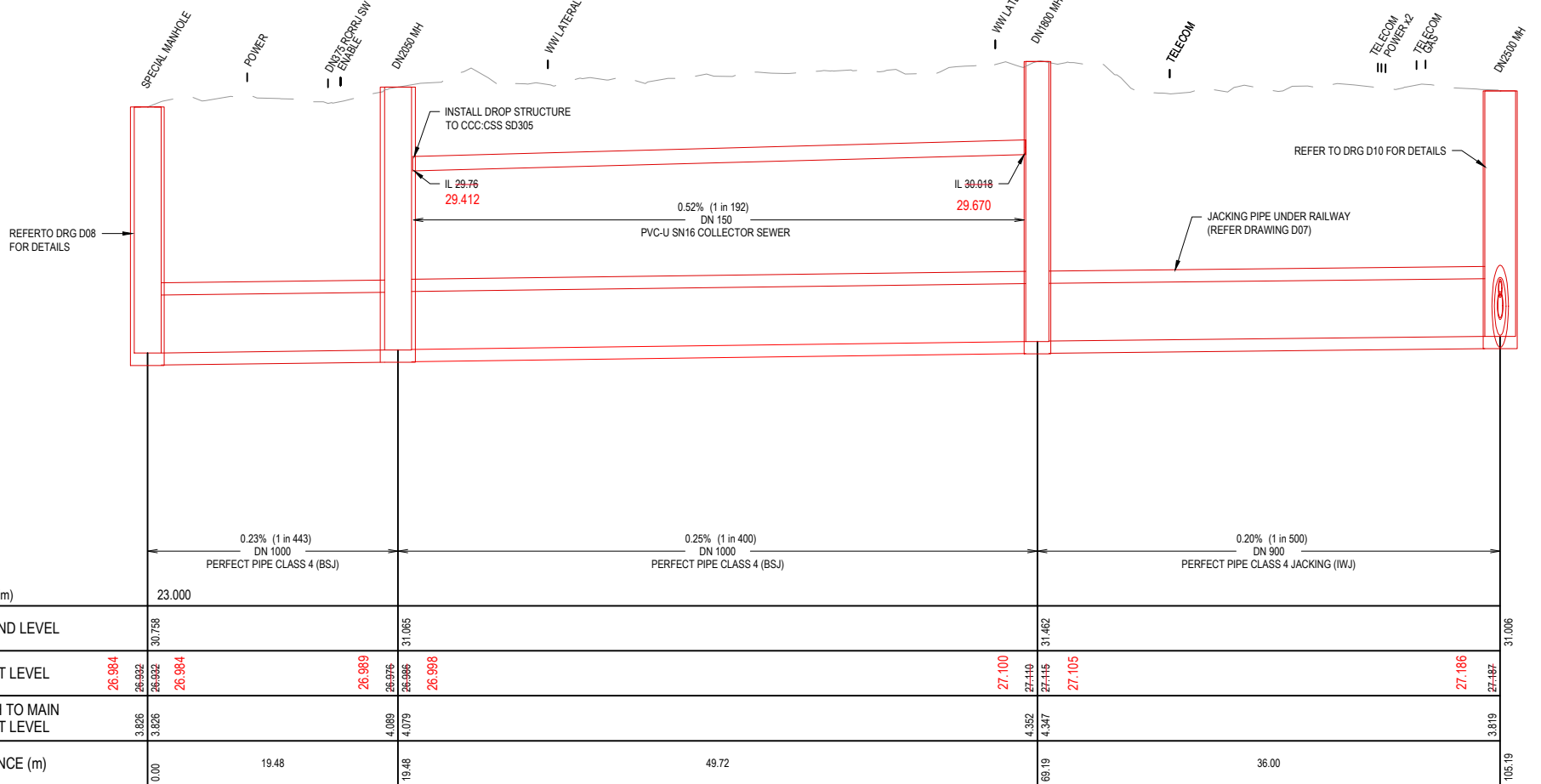
PROPOSED GRAVITY MAIN - PLAN
SCALE: 1:250

- NOTES:**
- SURVEY DATUM TO BE AS FOLLOWS:
- HORIZONTAL COORDINATES DATUM: MT. PLEASANT CIRCUIT (NZD 2000)
- VERTICAL LEVEL DATUM: CHRISTCHURCH DRAINAGE DATUM (JULY 2019)
 - THE LOCATION AND EXTENT OF ALL SERVICES CANNOT BE GUARANTEED. THE CONTRACTOR SHALL CONFIRM THE LOCATIONS OF ALL EXISTING SERVICES PRIOR TO COMMENCING WORK.
 - IF THE CONTRACTOR LOCATES ANY UTILITY NOT SHOWN ON THE DRAWINGS, THEY ARE TO INFORM THE ENGINEER IMMEDIATELY. THE ENGINEER SHALL THEN ADVISE THE CONTRACTOR ON HOW TO PROCEED.
 - THE LEVELS AND LOCATIONS OF EXISTING SERVICES ARE APPROXIMATE ONLY. THE CONTRACTOR IS TO CARRY OUT FURTHER INVESTIGATION TO DETERMINE EXACT DEPTH AND LOCATION OF EXISTING SERVICES. THE CONTRACTOR IS TO LOCATE ALL UTILITIES AND SERVICES ON SITE AND LIAISE WITH THE RELEVANT AUTHORITY IF PROTECTION AND/OR RELOCATION IS REQUIRED.
 - WHERE POSSIBLE, THE SIZE AND TYPE OF EXISTING PIPE MATERIAL OF SERVICES HAVE BEEN SHOWN TO ASSIST THE CONTRACTOR. THE CONTRACTOR SHALL SATISFY THEMSELVES THAT THIS INFORMATION IS CORRECT.
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 - DISTANCES SHOWN ON LONG SECTIONS ARE BETWEEN THE CENTER LINES OF THE MANHOLES OR SLIMPS.
 - IF A MANHOLE IS FOUND TO BE DAMAGED DURING EXCAVATION OF THE PIPELINE AND THE MANHOLE IS NOT IDENTIFIED FOR REPLACEMENT, INFORM THE ENGINEER. THE ENGINEER SHALL THEN ADVISE THE CONTRACTOR ON HOW TO PROCEED.
 - ALL MANHOLES TO HAVE LONG SOCKET CONNECTORS AS PER CSS SD3412.
 - MANHOLES NOT BEING REPLACED SHALL HAVE NEW LIDS AND COVERS INSTALLED IN ACCORDANCE WITH CSS SD302. WHERE REQUIRED, VENTED LIDS HAVE BEEN SHOWN ON THE DRAWINGS AND SHALL BE INSTALLED IN ACCORDANCE WITH CSS SD 3012.
 - ALL MANHOLES TO HAVE 100KPA SAFE BEARING CAPACITY FOUNDATIONS. ALL PIPES TO HAVE 50KPA SAFE BEARING CAPACITY FOUNDATIONS. WHERE FOUNDATIONS DO NOT MEET SAFE BEARING CAPACITY AT THE TRENCH INVERT.
 - ABANDON REDUNDANT SERVICES IN ACCORDANCE WITH CCC CSS PART 3 SECTION 5.3
 - PIPE BEDDING, HAUNCHING AND BACKFILL TO BE IN ACCORDANCE WITH CSS SD344.
 - UNLESS NOTED OTHERWISE, ALL CORBEL DETAILS SHALL BE IN ACCORDANCE WITH CSS SD 341/4.
 - PIPE JOINTS TO BE WRAPPED AS PER CSS PART 3 CLAUSE 8.
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 - CONTRACTOR TO CONFIRM MATERIAL OF LATERALS AND RENEW ALL EXCEPT FOR PVC, UP TO THE PROPERTY BOUNDARY. DURING RENEWAL, REPORT ANY SUSPICIOUS FLOW COMING FROM THE PRIVATE PROPERTY LATERAL TO THE ENGINEER.
 - FOLLOWING RENEWAL, THE CONTRACTOR CCTV FULL LENGTH OF LATERAL FROM THE MAIN TO PROPERTY. IF THERE WAS A REPORT OF ISSUE ON THE PRIVATE LATERAL, THE CONTRACTOR IS TO CONFIRM WITH ENGINEER IF CCTV OF THE PRIVATE LATERAL IS REQUIRED TO RECORD ANY INFLOW / INFILTRATION COMING FROM THE PRIVATE SIDE OF THE LATERAL.
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 - LATERALS CONNECTED TO THE MANHOLES TO BE BENCHED ACCORDINGLY.
 - IF FOUND FOR RENEWAL AND FOUND CONNECTED AGAINST THE FLOW, RE-CONNECT TO THE MAIN IN THE DIRECTION OF THE WASTEWATER FLOW.
 - ALL PVC-U PIPE JOINTS TO BE WRAPPED AS PER CSS SD344.
 - FOR CCC APPROVED MATERIALS, CONFIRM AVAILABILITY EARLY IN THE PROJECT SO THAT IS ALTERNATIVE MATERIAL IS NEEDED, EARLY APPROVAL AND PLACING OF ORDER CAN BE DONE EARLY IN THE PROJECT.
 - ALL PRECAST MANHOLES TO BE COATED IN SITU CLAD EHD.

LEGEND

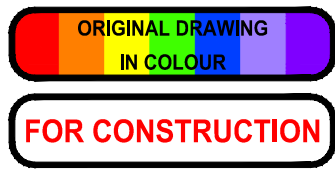


LATERALS TO BE POTHOLED AT BOUNDARY TO CONFIRM COLLECTOR DEPTH



PROPOSED GRAVITY MAIN - PROFILE
SCALE: 1:250H 1:50V (A1)

ASBUILT
06/03/2023
Joshua Morgan



DATUM	C.D.D.	NAME	SIGNED	DATE
BENCH MK.	-	DESIGNED	I Berliner	IB 01.20
RL	-	DES. REVIEW	P Marshall	PM 01.20
SURVEY	-	DRAWN	R Simpson	RS 01.20
SURVEY LB	-	DRW. CHECK	R Simpson	RS 08.20
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APPROVED
FOR TENDER

DATE: 04.12.20
SIGNED: B Scott

FOR CONSTRUCTION
DATE: 06.07.21
SIGNED: B Scott

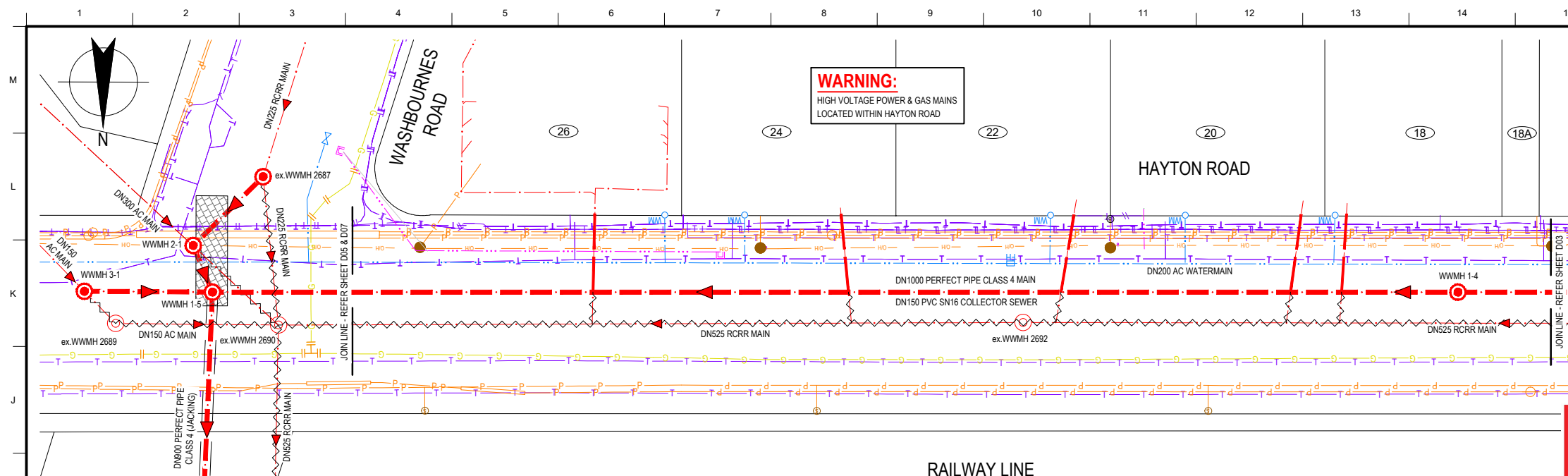
BeCa
CONSULTANT PROJECT REF: 3364410
CONSULTANT FILE REF: CA-100

HAYTON ROAD WASTEWATER RENEWAL

HAYTON ROAD TO NGA MAHI ROAD PLAN AND LONG SECTION - SHEET 1

ISSUE	AMENDMENTS	SIGNED	DATE
1	ISSUED FOR CONSTRUCTION	B Scott	06.07.21

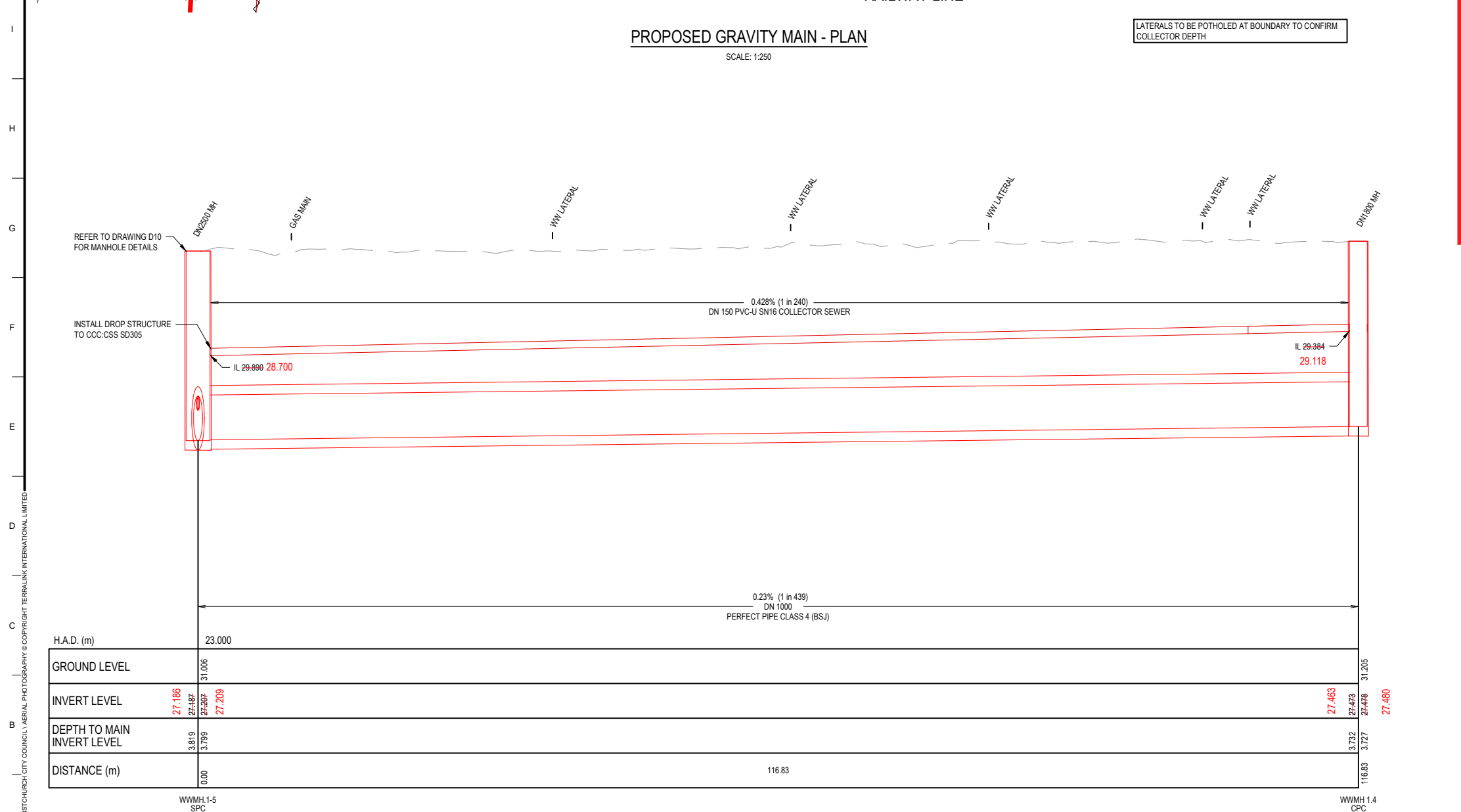
CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALES
CAD DRAWING FILE REF.	A1	AS SHOWN
CPG PROJECT FILE NUMBER	CAD PROJECT FILE NUMBER	SHEET
CP503525	CP503525	D01 OF 11



PROPOSED GRAVITY MAIN - PLAN

SCALE: 1:250

LATERALS TO BE POTHOLED AT BOUNDARY TO CONFIRM COLLECTOR DEPTH



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SCALE: 1:250H 1:50V (A1)

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 - ALL PRECAST MANHOLES TO BE COATED IN SITU CLAD EHD

ASBUILT
06/03/2023
Joshua Morgan

- EXISTING SERVICES**
- WASTEWATER
 - WASTEWATER (PRESSURE)
 - WATER
 - STORMWATER
 - POWER (UNDERGROUND)
 - CHORUS TELECOMMS
 - VODAFONE TELECOMMS
 - ENABLE FIBRE OPTIC
 - TELECOMMS UNKNOWN
 - MANHOLE: STORMWATER / WASTEWATER / VENTED
 - SUMP: SINGLE / DOUBLE
 - FIRE HYDRANT / VALVE / WATER METER
 - POWER POLE
- PROPOSED SERVICES**
- WASTEWATER (GRAVITY)
 - WASTEWATER LATERAL
 - STANDARD & VENTED WASTEWATER MANHOLE
 - EXISTING SERVICE TO BE ABANDONED
 - OUTLINE OF THRUSTING PIT

VESTED INFRASTRUCTURE - WASTEWATER
All work to be in accordance with I.D.S. & C.S.S. Pt.1-1.7
ACCEPTED
07 - Jul - 2021
CITY WATER & WASTE
CHRISTCHURCH CITY COUNCIL
Gunn, Jeremy

ORIGINAL DRAWING
IN COLOUR
FOR CONSTRUCTION



DATUM	C.D.D.	NAME	SIGNED	DATE
BENCH MK.	-	DESIGNED	I Berliner	IB 01.20
RL	-	DES. REVIEW	P Marshall	PM 08.20
SURVEY	-	DRAWN	R Simpson	RS 01.20
SURVEY LB	-	DRW. CHECK	R Simpson	RS 08.20

APPROVED	
FOR TENDER	
DATE	SIGNED
04.12.20	B Scott
FOR CONSTRUCTION	
DATE	SIGNED
06.07.21	B Scott

BeCa

CONSULTANT PROJECT REF: 3364410
CONSULTANT FILE REF: CA-101

HAYTON ROAD WASTEWATER RENEWAL

PROJECT TITLE

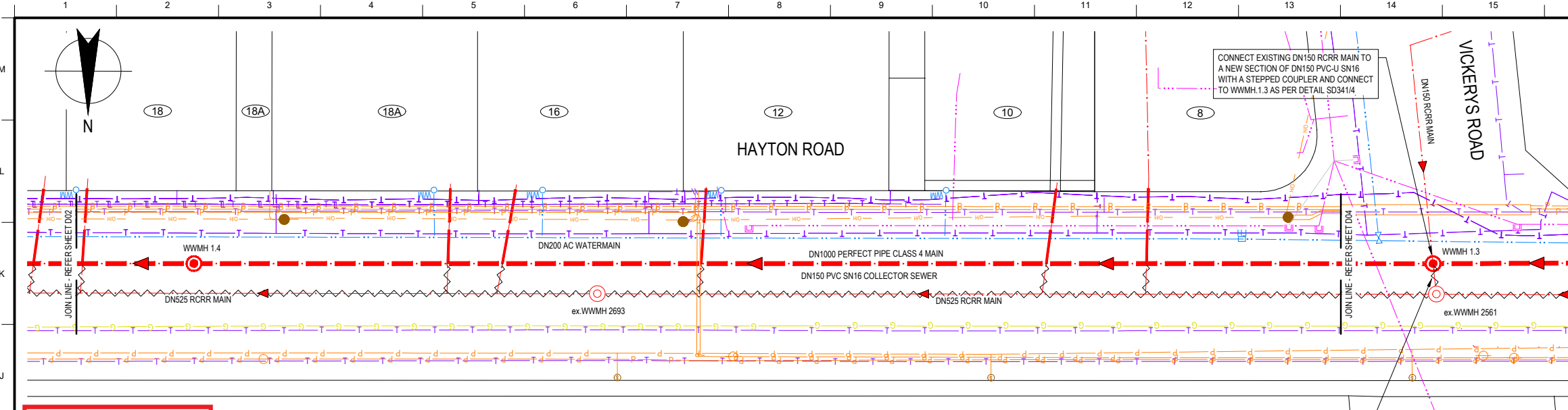
HAYTON ROAD TO NGA MAHI ROAD PLAN AND LONG SECTION - SHEET 2

DRAWING TITLE

ISSUE	AMENDMENTS	SIGNED	DATE
1	ISSUED FOR CONSTRUCTION	B Scott	06.07.21

CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALES
CP503525	A1	AS SHOWN

CPG PROJECT FILE NUMBER	SHEET
CP503525	D02 OF 11



ASBUILT
06/03/2023
Joshua Morgan



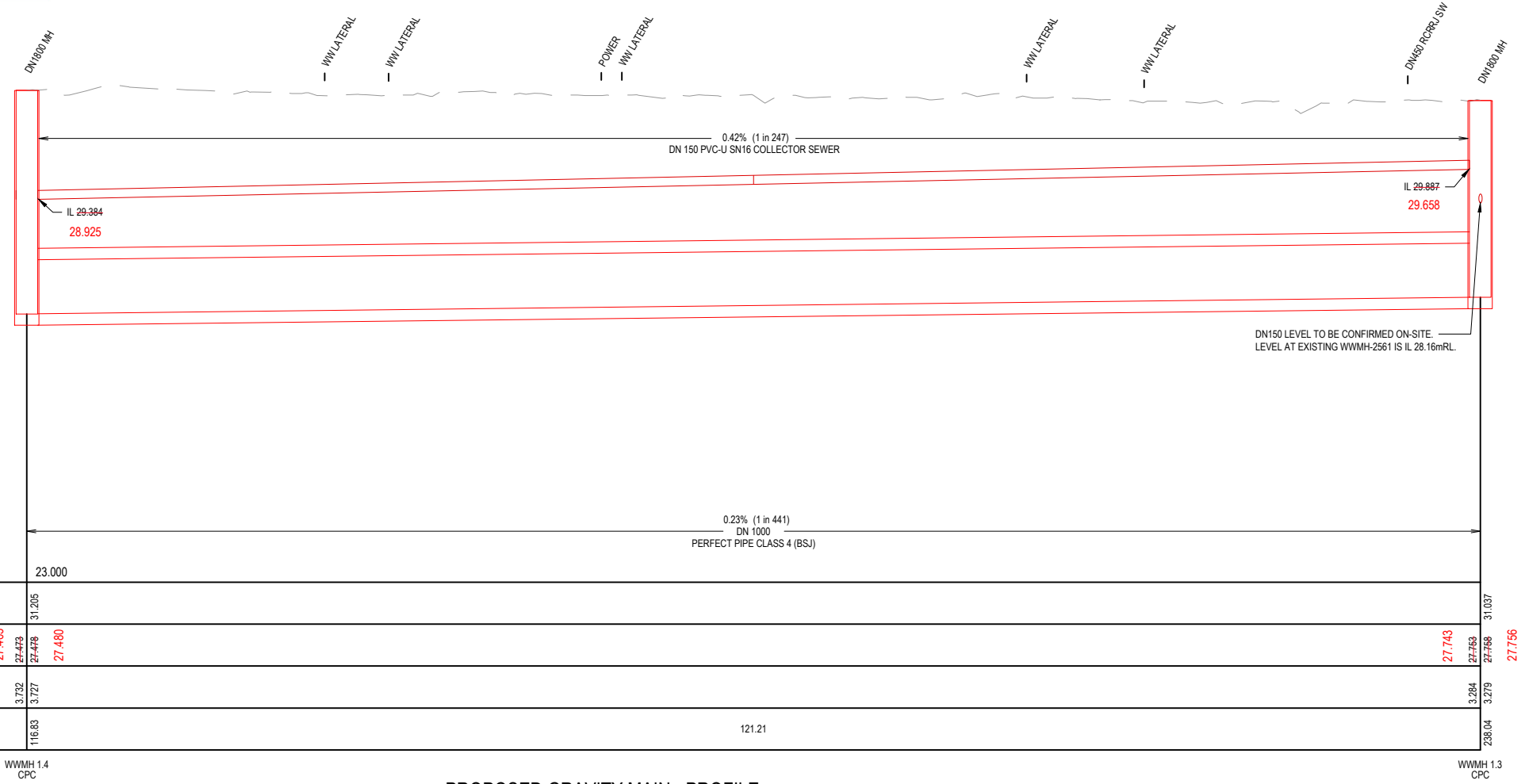
WARNING:
HIGH VOLTAGE POWER & GAS MAINS LOCATED WITHIN HAYTON ROAD

RAILWAY LINE
PROPOSED GRAVITY MAIN - PLAN
SCALE: 1:250

LATERALS TO BE POTHOLED AT BOUNDARY TO CONFIRM COLLECTOR DEPTH

- LEGEND**
- EXISTING SERVICES**
- WASTEWATER
 - ps WASTEWATER (PRESSURE)
 - WATER
 - STORMWATER
 - POWER (UNDERGROUND)
 - G GAS
 - V CHORUS TELECOMMS
 - V VODAFONE TELECOMMS
 - E ENABLE FIBRE OPTIC
 - UNK TELECOMMS UNKNOWN
 - MANHOLE: STORMWATER / WASTEWATER / VENTED
 - SUMP: SINGLE / DOUBLE
 - ⊕ FIRE HYDRANT / VALVE / WATER METER
 - opp POWER POLE
- PROPOSED SERVICES**
- WASTEWATER (GRAVITY)
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PROPOSED GRAVITY MAIN - PROFILE
SCALE: 1:250H 1:50V (A1)

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ACCEPTED
07 - Jul - 2021
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DRAIN. REF.	16966	FILE LOCATION	338415-CA-102.dwg		
SAP	WBS	PRINTED ON	16/07/2021 12:12 pm		
			By Richard Simpson		

APPROVED	
FOR TENDER	FOR CONSTRUCTION
DATE	DATE
SIGNED	SIGNED
B Scott	B Scott

BeCa

CONSULTANT PROJECT REF: 3364410
CONSULTANT FILE REF: CA-102

HAYTON ROAD WASTEWATER RENEWAL

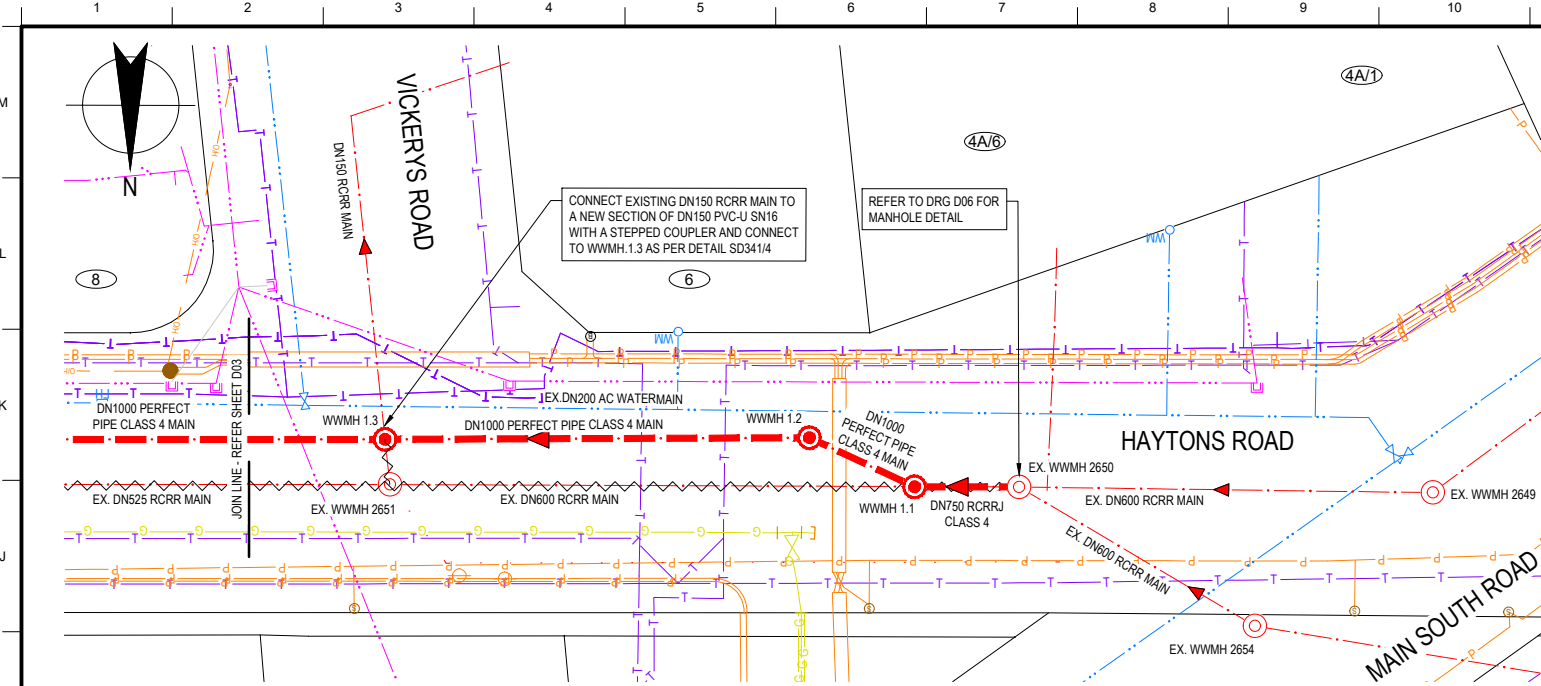
PROJECT TITLE

HAYTON ROAD TO NGA MAHI ROAD PLAN AND LONG SECTION - SHEET 3

DRAWING TITLE

CONTRACT NUMBER	CP503525	SCALES	AS SHOWN
CAD DRAWING FILE REF.		SHEET	D03 OF 11
CPG PROJECT FILE NUMBER			

1	ISSUED FOR CONSTRUCTION	B Scott	06.07.21
ISSUE	AMENDMENTS	SIGNED	DATE



PROPOSED GRAVITY MAIN - PLAN
SCALE: 1:250

WARNING:
HIGH VOLTAGE POWER & GAS MAINS LOCATED WITHIN HAYTON ROAD

LEGEND

EXISTING SERVICES

- WASTEWATER
- WASTEWATER (PRESSURE)
- WATER
- STORMWATER
- POWER (UNDERGROUND)
- GAS
- CHORUS TELECOMMS
- VODAFONE TELECOMMS
- ENABLE FIBRE OPTIC
- TELECOMMS UNKNOWN

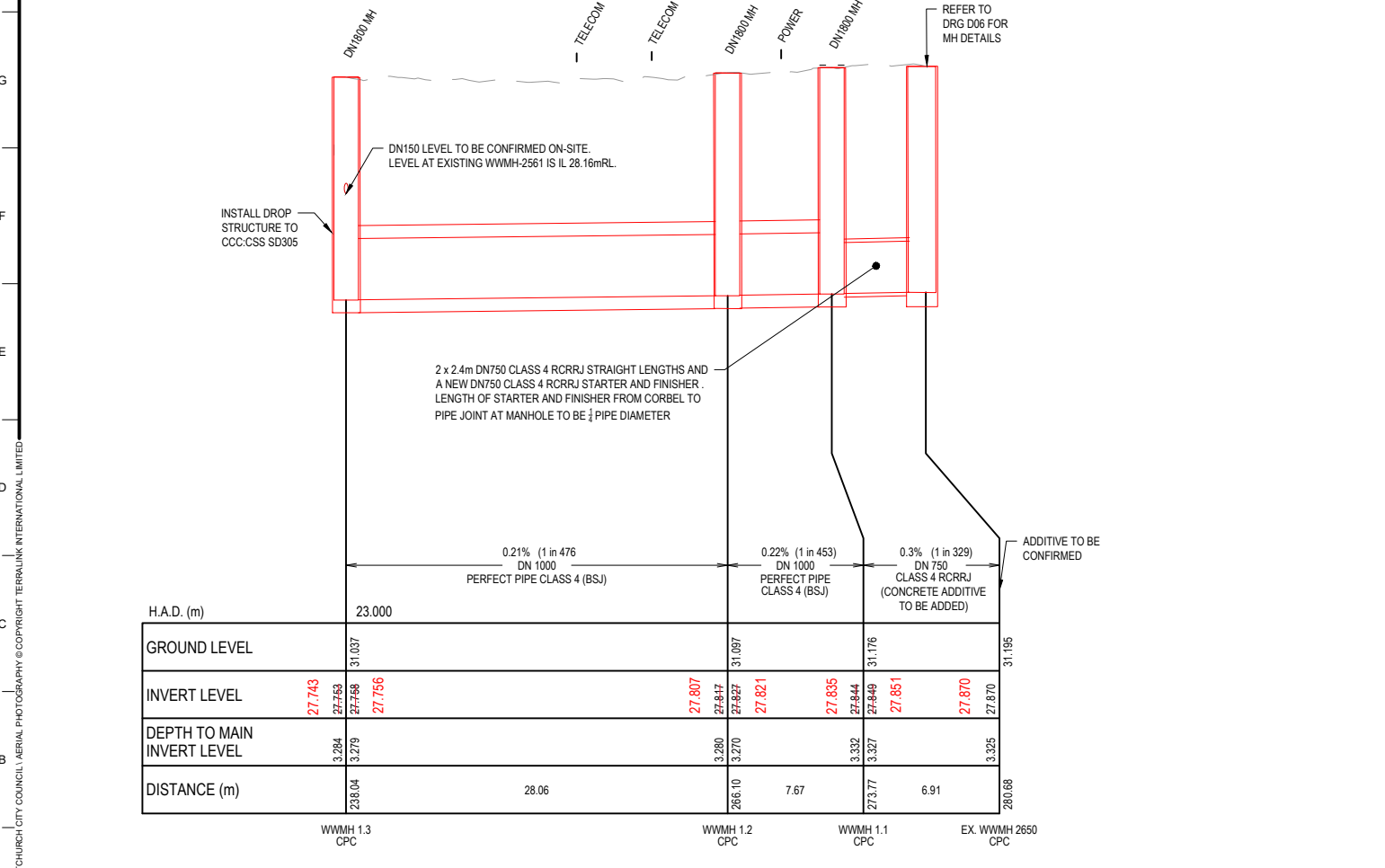
MANHOLE: STORMWATER / WASTEWATER / VENTED

- SUMP: SINGLE / DOUBLE
- FIRE HYDRANT / VALVE / WATER METER
- POWER POLE

PROPOSED SERVICES

- WASTEWATER (GRAVITY)
- WASTEWATER LATERAL
- STANDARD & VENTED WASTEWATER MANHOLE
- EXISTING SERVICE TO BE ABANDONED
- OUTLINE OF THRUSTING PIT

- NOTES:**
- SURVEY DATUM TO BE AS FOLLOWS:
- HORIZONTAL COORDINATES DATUM: MT. PLEASANT CIRCUIT (NZD 2000)
- VERTICAL LEVEL DATUM: CHRISTCHURCH DRAINAGE DATUM (JULY 2019)
 - THE LOCATION AND EXTENT OF ALL SERVICES CANNOT BE GUARANTEED. THE CONTRACTOR SHALL CONFIRM THE LOCATIONS OF ALL EXISTING SERVICES PRIOR TO COMMENCING WORK.
 - IF THE CONTRACTOR LOCATES ANY UTILITY NOT SHOWN ON THE DRAWINGS, THEY ARE TO INFORM THE ENGINEER IMMEDIATELY. THE ENGINEER SHALL THEN ADVISE THE CONTRACTOR ON HOW TO PROCEED.
 - THE LEVELS AND LOCATIONS OF EXISTING SERVICES ARE APPROXIMATE ONLY. THE CONTRACTOR IS TO CARRY OUT FURTHER INVESTIGATION TO DETERMINE EXACT DEPTH AND LOCATION OF EXISTING SERVICES. THE CONTRACTOR IS TO LOCATE ALL UTILITIES AND SERVICES ON SITE AND LIAISE WITH THE RELEVANT AUTHORITY IF PROTECTION AND/OR RELOCATION IS REQUIRED.
 - WHERE POSSIBLE, THE SIZE AND TYPE OF EXISTING PIPE MATERIAL OF SERVICES HAVE BEEN SHOWN TO ASSIST THE CONTRACTOR. THE CONTRACTOR SHALL SATISFY THEMSELVES THAT THIS INFORMATION IS CORRECT.
 - ALL WORKS ARE TO COMPLY WITH CHRISTCHURCH CITY COUNCIL'S CONSTRUCTION STANDARD SPECIFICATIONS (CCC CSS). IT SHOULD BE NOTED THAT PRINTED VERSIONS ARE UNCONTROLLED.
 - ANY DEVIATION FROM CSS IS TO BE CARRIED OUT ONLY AFTER A WRITTEN INSTRUCTION IS RECEIVED FROM THE ENGINEER.
 - THE DESIGN SURFACE LEVEL HAS BEEN BUILT WITH A COMBINATION OF SURVEYED LID LEVELS AND NEARBY GIS LID LEVELS. WHERE NEW MANHOLES ARE TO BE INSTALLED, THE CONTRACTOR IS TO CONFIRM THE EXISTING GROUND LEVEL AT THE PROPOSED LOCATION.
 - DISTANCES SHOWN ON LONG SECTIONS ARE BETWEEN THE CENTER LINES OF THE MANHOLES OR SUMPS.
 - IF A MANHOLE IS FOUND TO BE DAMAGED DURING EXCAVATION OF THE PIPELINE AND THE MANHOLE IS NOT IDENTIFIED FOR REPLACEMENT, INFORM THE ENGINEER. THE ENGINEER SHALL THEN ADVISE THE CONTRACTOR ON HOW TO PROCEED.
 - ALL MANHOLES TO HAVE LONG SOCKET CONNECTORS AS PER CSS SD3412.
 - MANHOLES NOT BEING REPLACED SHALL HAVE NEW LIDS AND COVERS INSTALLED IN ACCORDANCE WITH CSS SD302. WHERE REQUIRED, VENTED LIDS HAVE BEEN SHOWN ON THE DRAWINGS AND SHALL BE INSTALLED IN ACCORDANCE WITH CSS SD 301/2.
 - ALL MANHOLES TO HAVE 100KPA SAFE BEARING CAPACITY FOUNDATIONS. ALL PIPES TO HAVE 50KPA SAFE BEARING CAPACITY FOUNDATIONS. WHERE FOUNDATIONS DO NOT MEET SAFE BEARING CAPACITY AT THE TRENCH INVERT.
 - ABANDON REDUNDANT SERVICES IN ACCORDANCE WITH CCC CSS PART 3 SECTION 5.3
 - PIPE BEDDING, HAUNCHING AND BACKFILL TO BE IN ACCORDANCE WITH CSS SD344.
 - UNLESS NOTED OTHERWISE, ALL CORBEL DETAILS SHALL BE IN ACCORDANCE WITH CSS SD 341/4.
 - PIPE JOINTS TO BE WRAPPED AS PER CSS PART 3 CLAUSE 8
 - THE CONTRACTOR SHALL CONFIRM THE ALIGNMENT OF THE PIPE IN CONSULTATION WITH THE ENGINEER AFTER ALL THE EXISTING SERVICES HAVE BEEN LOCATED UNLESS SHOWN OTHERWISE ON THE DRAWINGS
 - PIPE BURSTING SHALL BE USED WHEN RENEWING SEWER LATERALS AROUND STREET TRESS (I.E. WHEN BENEATH CANOPY OR WITHIN 3.0M OF THE TREE TRUNK)
 - CONTRACTOR TO CONFIRM MATERIAL OF LATERALS AND RENEW ALL EXCEPT FOR PVC, UP TO THE PROPERTY BOUNDARY. DURING RENEWAL, REPORT ANY SUSPICIOUS FLOW COMING FROM THE PRIVATE PROPERTY LATERAL TO THE ENGINEER.
 - FOLLOWING RENEWAL, THE CONTRACTOR CCTV FULL LENGTH OF LATERAL FROM THE MAIN TO PROPERTY. IF THERE WAS A REPORT OF ISSUE ON THE PRIVATE LATERAL, THE CONTRACTOR IS TO CONFIRM WITH ENGINEER IF CCTV OF THE PRIVATE LATERAL IS REQUIRED TO RECORD ANY INFLOW / INFILTRATION COMING FROM THE PRIVATE SIDE OF THE LATERAL.
 - CONTRACTOR TO CCTV FULL LENGTH OF ALL EXISTING PVC LATERALS AND CONFIRM IF RENEWAL IS REQUIRED UP TO THE PROPERTY BOUNDARY. CONTRACTOR TO RECORD ANY INFLOW / INFILTRATION COMING FROM THE PRIVATE SIDE OF THE LATERAL AND REPORT ISSUES TO COUNCIL.
 - NO LATERAL SHALL BE CONNECTED TO THE FIRST PIPE LENGTH LAID INTO THE LONG SOCKET CONNECTOR (I.E. WITHIN 4.0 M OF THE MANHOLE).
 - LATERALS CONNECTED TO THE MANHOLES TO BE BENCHED ACCORDINGLY.
 - IF FOUND FOR RENEWAL AND FOUND CONNECTED AGAINST THE FLOW, RE-CONNECT TO THE MAIN IN THE DIRECTION OF THE WASTEWATER FLOW.
 - ALL PVC-U PIPE JOINTS TO BE WRAPPED AS PER CSS SD344.
 - FOR CCC APPROVED MATERIALS, CONFIRM AVAILABILITY EARLY IN THE PROJECT SO THAT IS ALTERNATIVE MATERIAL IS NEEDED, EARLY APPROVAL AND PLACING OF ORDER CAN BE DONE EARLY IN THE PROJECT.
 - ALL PRECAST MANHOLES TO BE COATED IN SITU CLAD EHD.



PROPOSED GRAVITY MAIN - PROFILE
SCALE: 1:250H 1:50V (A1)

ASBUILT
06/03/2023
Joshua Morgan

VESTED INFRASTRUCTURE - WASTEWATER
All work to be in accordance with I.D.S. & C.S.S. Pt-1-7

ACCEPTED
07 - Jul - 2021

CITY WATER & WASTE
CHRISTCHURCH CITY COUNCIL

Gunn, Jeremy

ORIGINAL DRAWING
IN COLOUR

FOR CONSTRUCTION



DATUM	C.D.D.	NAME	SIGNED	DATE	
BENCH MK.	-	DESIGNED	I Berliner	IB	01.20
RL	-	DES. REVIEW	P Marshall	PM	01.20
SURVEY	-	DRAWN	R Simpson	RS	01.20
SURVEY LB	-	DRW. CHECK	R Simpson	RS	08.20

APPROVED	
FOR TENDER	FOR CONSTRUCTION
DATE	SIGNED
04.12.20	B Scott
DATE	SIGNED
06.07.21	B Scott

BeCa

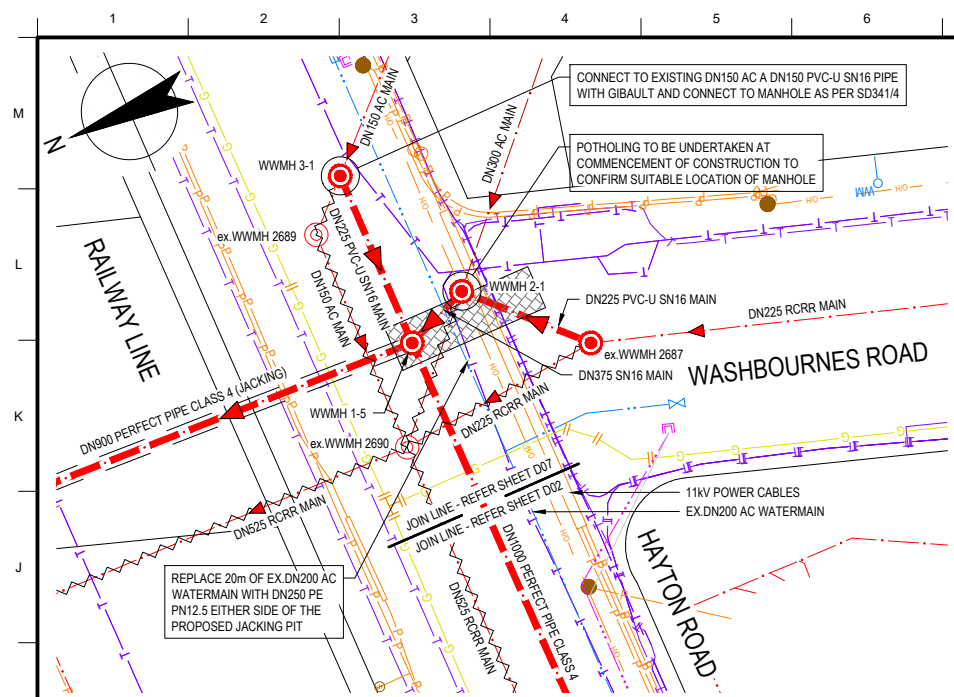
CONSULTANT PROJECT REF: 3364410
CONSULTANT FILE REF: CA-103

HAYTON ROAD WASTEWATER RENEWAL

HAYTON ROAD TO NGA MAHI ROAD PLAN AND LONG SECTION - SHEET 4

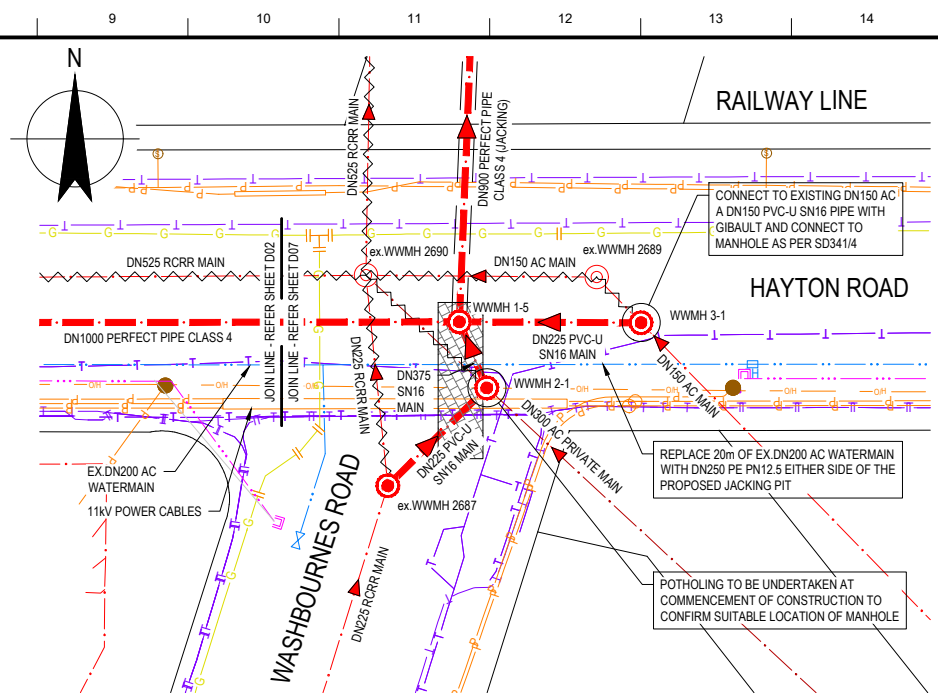
CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALES
CP503525	A1	AS SHOWN
CAD DRAWING FILE REF.	CPG PROJECT FILE NUMBER	SHEET
		D04 OF 11

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PROPOSED GRAVITY MAIN - PLAN

SCALE: 1:250



PROPOSED GRAVITY MAIN - PLAN

SCALE: 1:250

WARNING:
HIGH VOLTAGE POWER & GAS MAINS LOCATED WITHIN HAYTON ROAD

LEGEND

EXISTING SERVICES

- WASTEWATER
- WASTEWATER (PRESSURE)
- WATER
- STORMWATER
- POWER (UNDERGROUND)
- GAS
- CHORUS TELECOMMS
- VODAFONE TELECOMMS
- ENABLE FIBRE OPTIC
- TELECOMMS UNKNOWN

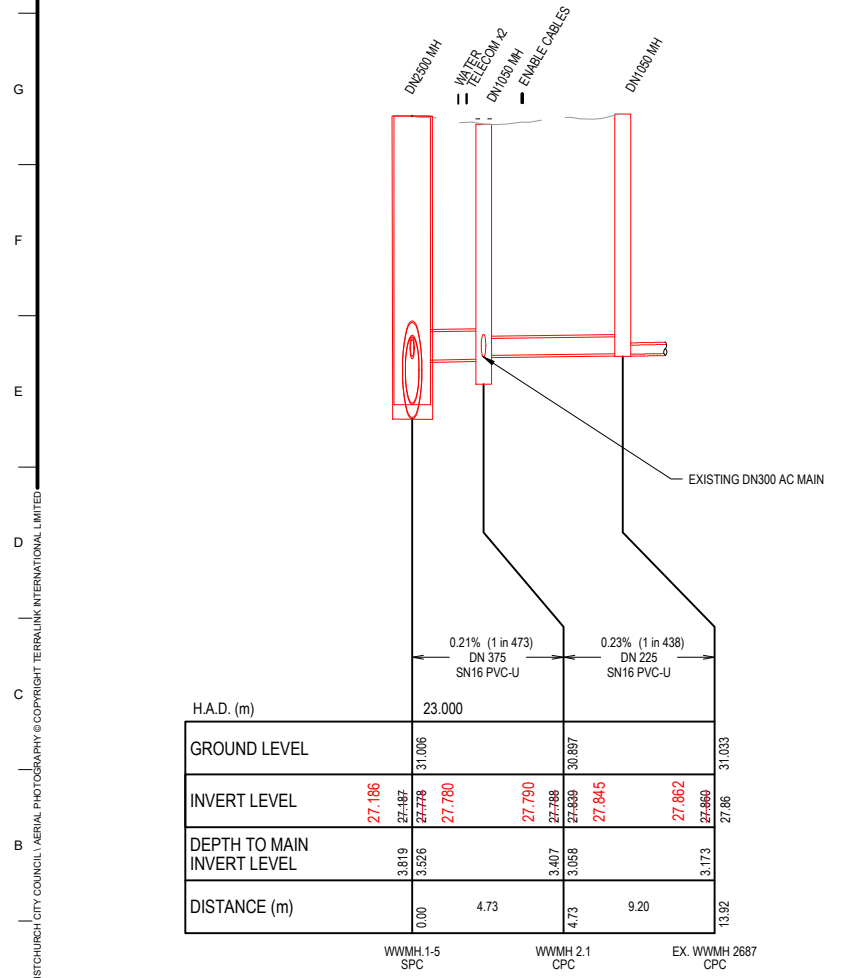
PROPOSED SERVICES

- WASTEWATER (GRAVITY)
- WASTEWATER LATERAL
- STANDARD & VENTED WASTEWATER MANHOLE
- EXISTING SERVICE TO BE ABANDONED
- OUTLINE OF THRUSTING PIT

MANHOLE: STORMWATER / WASTEWATER / VENTED

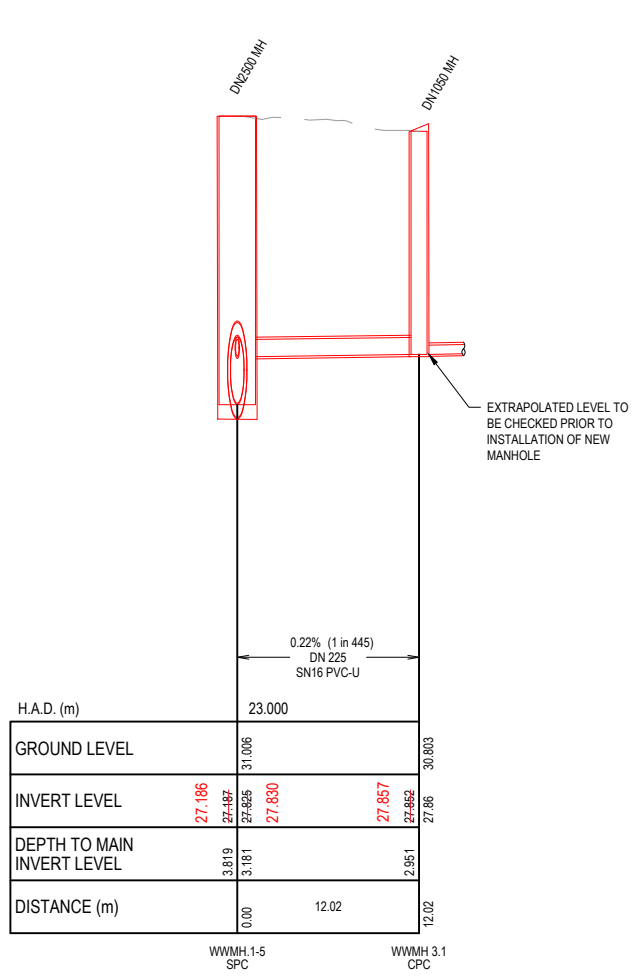
- SUMP: SINGLE / DOUBLE
- FIRE HYDRANT / VALVE / WATER METER
- POWER POLE

- NOTES:**
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 - FOR CCC APPROVED MATERIALS, CONFIRM AVAILABILITY EARLY IN THE PROJECT SO THAT IS ALTERNATIVE MATERIAL IS NEEDED, EARLY APPROVAL AND PLACING OF ORDER CAN BE DONE EARLY IN THE PROJECT.
 - ALL PRECAST MANHOLES TO BE COATED IN SITU CLAD EHD.



PROPOSED GRAVITY MAIN - PROFILE

SCALE: 1:250H 1:50V (A1)



PROPOSED GRAVITY MAIN - PROFILE

SCALE: 1:250H 1:50V (A1)

ASBUILT
06/03/2023
Joshua Morgan

VESTED INFRASTRUCTURE - WASTEWATER
All work to be in accordance with L.D.S. & C.S.S. PL1-7
ACCEPTED
07 - Jul - 2021
CITY WATER & WASTE
CHRISTCHURCH CITY COUNCIL
Gunn, Jeremy

ORIGINAL DRAWING
IN COLOUR

FOR CONSTRUCTION



DATUM	C.D.D.	NAME	SIGNED	DATE	
BENCH MK.	-	DESIGNED	I Berliner	IB	01.20
RL	-	DES. REVIEW	P Marshall	PM	01.20
SURVEY	-	DRAWN	R Simpson	RS	04.12.20
SURVEY LB	-	DRW. CHECK	R Simpson	RS	08.20
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DRAIN. REF.	1696	330415-CA-104.dwg			
SAP WBS	6222066	PRINTED ON	06/07/21 12:24 pm		

APPROVED	FOR TENDER
DATE	SIGNED
04.12.20	B Scott
FOR CONSTRUCTION	
DATE	SIGNED
06.07.21	B Scott

CONSULTANT

CONSULTANT PROJECT REF: 3364410
CONSULTANT FILE REF: CA-104

PROJECT TITLE

HAYTON ROAD WASTEWATER RENEWAL

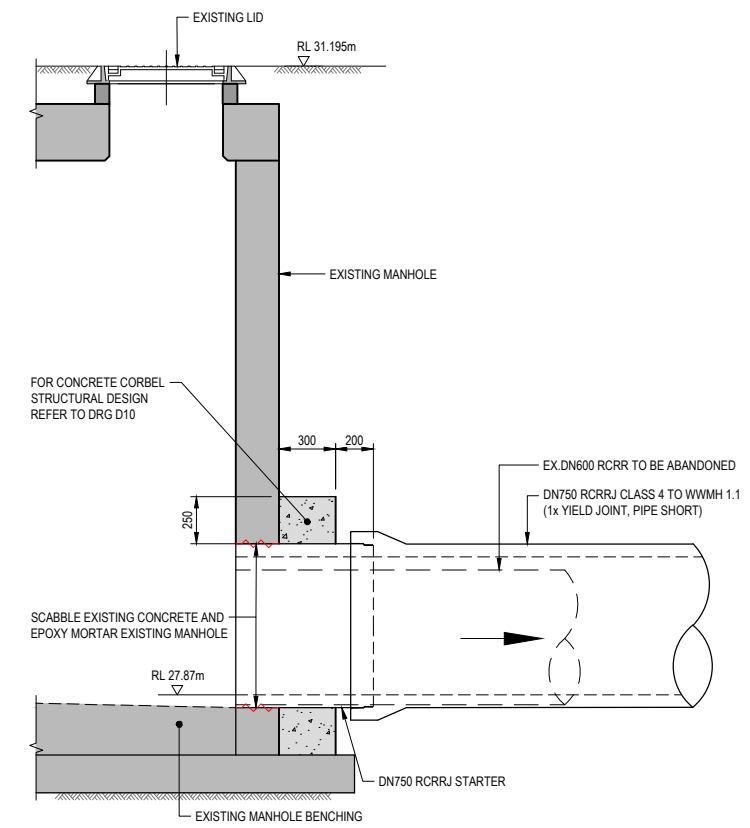
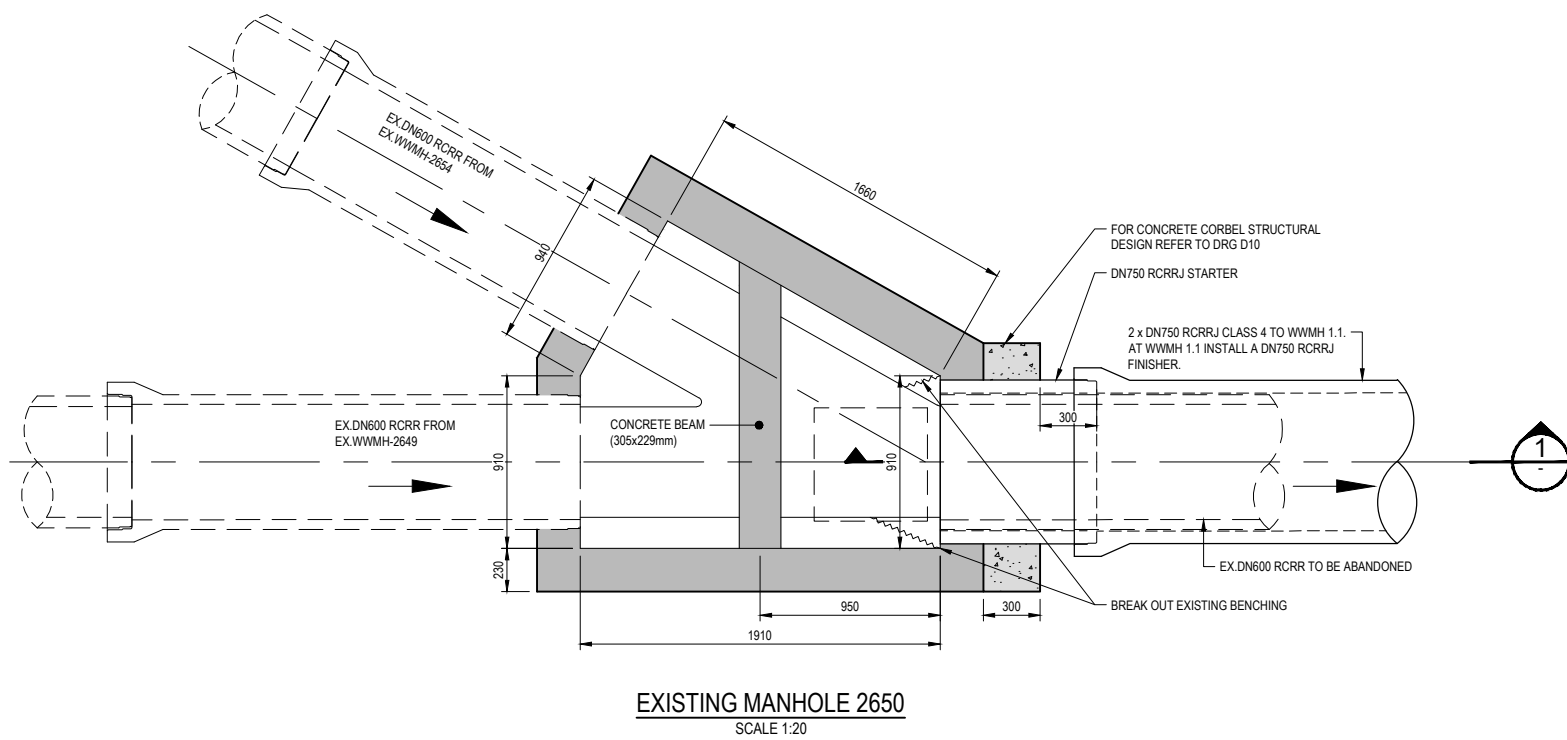
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HAYTON ROAD TO NGA MAHI ROAD PLAN AND LONG SECTION - SHEET 5

CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALES
CP503525	A1	AS SHOWN
CAD DRAWING FILE REF.		
CPG PROJECT FILE NUMBER	SHEET	
CP503525	D05	OF 11

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NOTES:
1. REFER TO DRAWING D01 FOR GENERAL NOTES.



ASBUILT
06/03/2023
Joshua Morgan

VESTED INFRASTRUCTURE - WASTEWATER
 All work to be in accordance with I.D.S. & C.S.S. Pt.1-7
ACCEPTED
 07 - Jul - 2021
 CITY WATER & WASTE
 CHRISTCHURCH CITY COUNCIL
 Gunn, Jeremy

FOR CONSTRUCTION

1	ISSUED FOR CONSTRUCTION	B Scott	06.07.21
ISSUE	AMENDMENTS	SIGNED	DATE



DATUM	C.D.D.	DESIGNED	NAME	SIGNED	DATE
BENCH MK.	-	DESIGNED	I Berliner	IB	02.20
RL	-	DES. REVIEW	P Marshall	PM	02.20
SURVEY	-	DRAWN	R Simpson	RS	04.12.20
SURVEY LB	-	DRW. CHECK	R Simpson	RAS	07.21

APPROVED	
FOR TENDER	FOR CONSTRUCTION
DATE	SIGNED
04.12.20	B Scott
DATE	SIGNED
06.07.21	B Scott

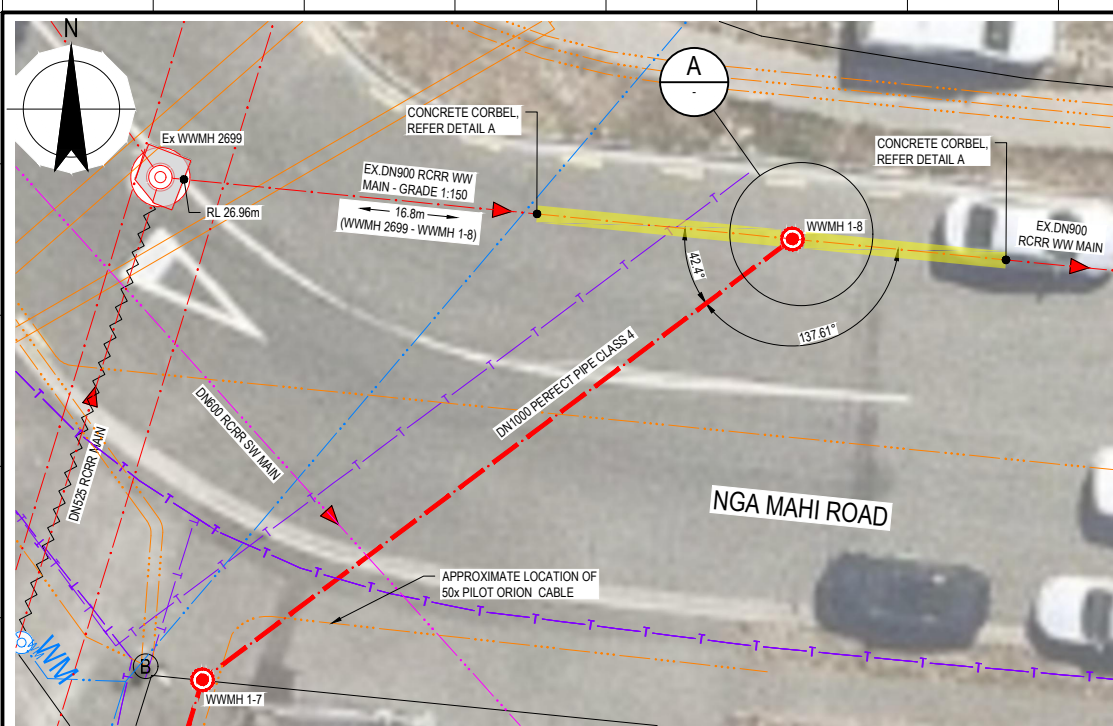
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CONSULTANT PROJECT REF.	CONSULTANT FILE REF.
3364410	3364410-CA-105

PROJECT TITLE
HAYTON ROAD WASTEWATER RENEWAL

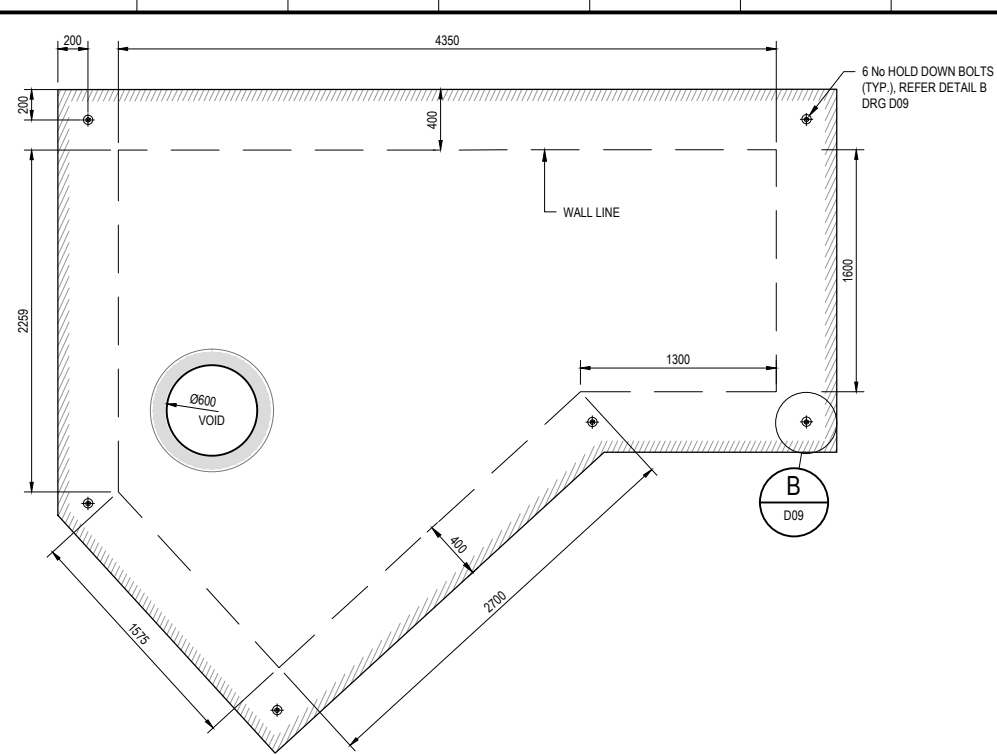
DRAWING TITLE
HAYTONS ROAD EXISTING MANHOLE DETAIL SHEET 1

CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALES
CPG PROJECT FILE NUMBER	A1	AS SHOWN
CP503525		
	SHEET	D06 OF 11

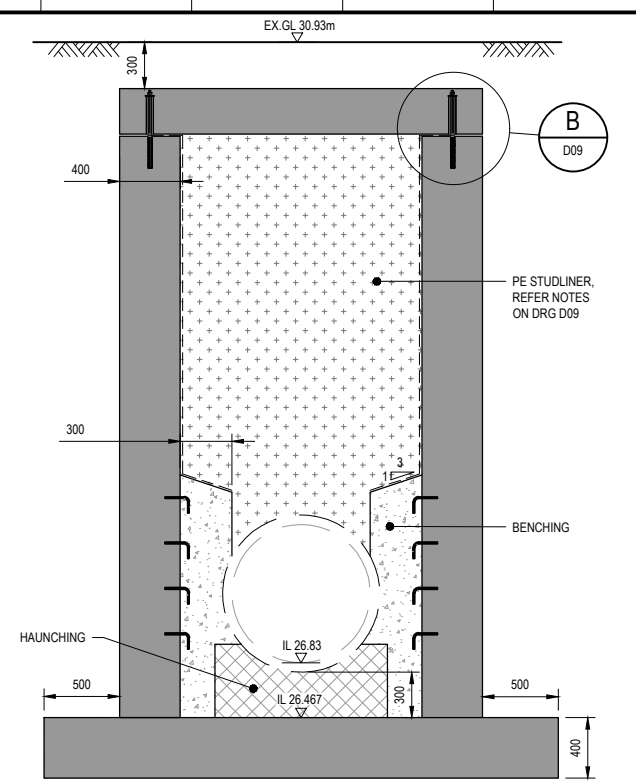
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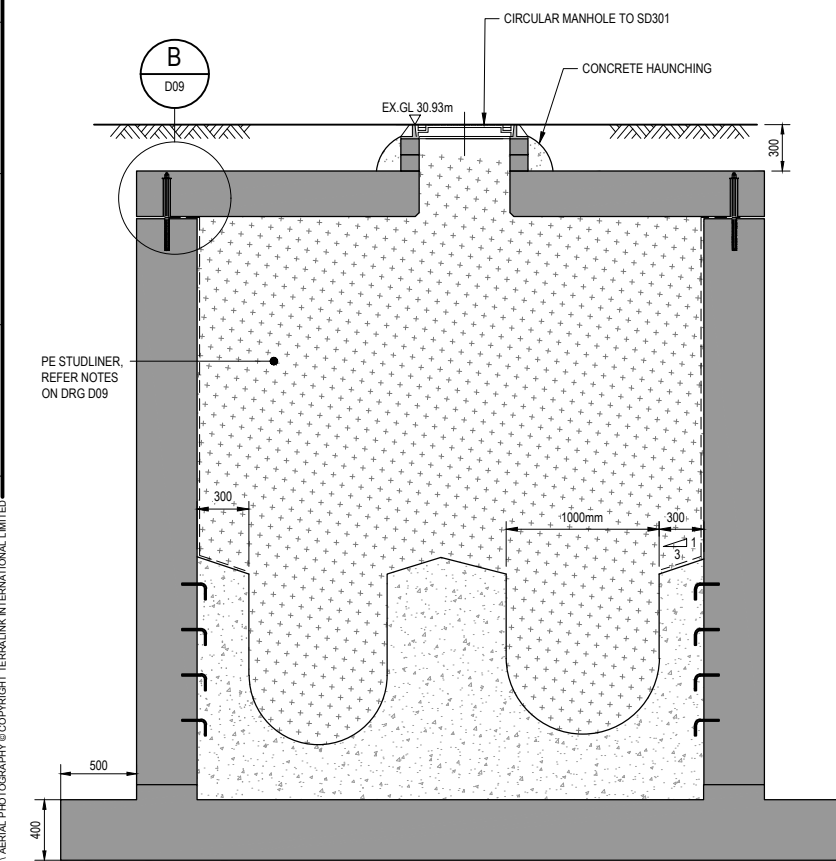
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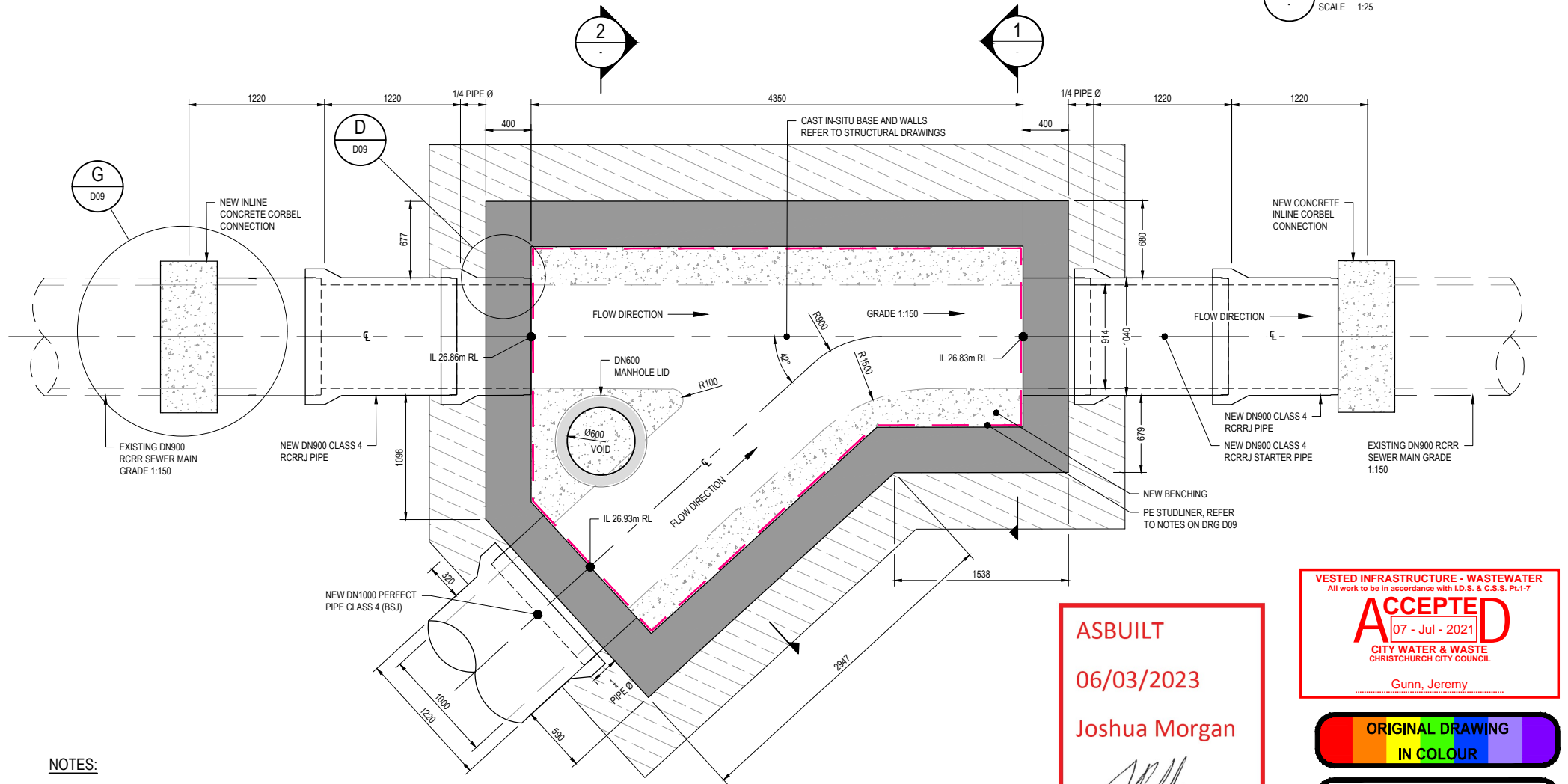
COVER PLAN
SCALE 1:25



1 SECTION
SCALE 1:25



2 SECTION
SCALE 1:25



A WWMH 1-8 DETAIL
SCALE 1:25

NOTES:

- REFER TO STRUCTURAL DRAWINGS D15 - D19 FOR DETAILS

ASBUILT
06/03/2023
Joshua Morgan

VESTED INFRASTRUCTURE - WASTEWATER
All work to be in accordance with I.D.S. & C.S.S. PL1-7
ACCEPTED
07 - Jul - 2021
CITY WATER & WASTE
CHRISTCHURCH CITY COUNCIL
Gunn, Jeremy

ORIGINAL DRAWING
IN COLOUR

FOR CONSTRUCTION



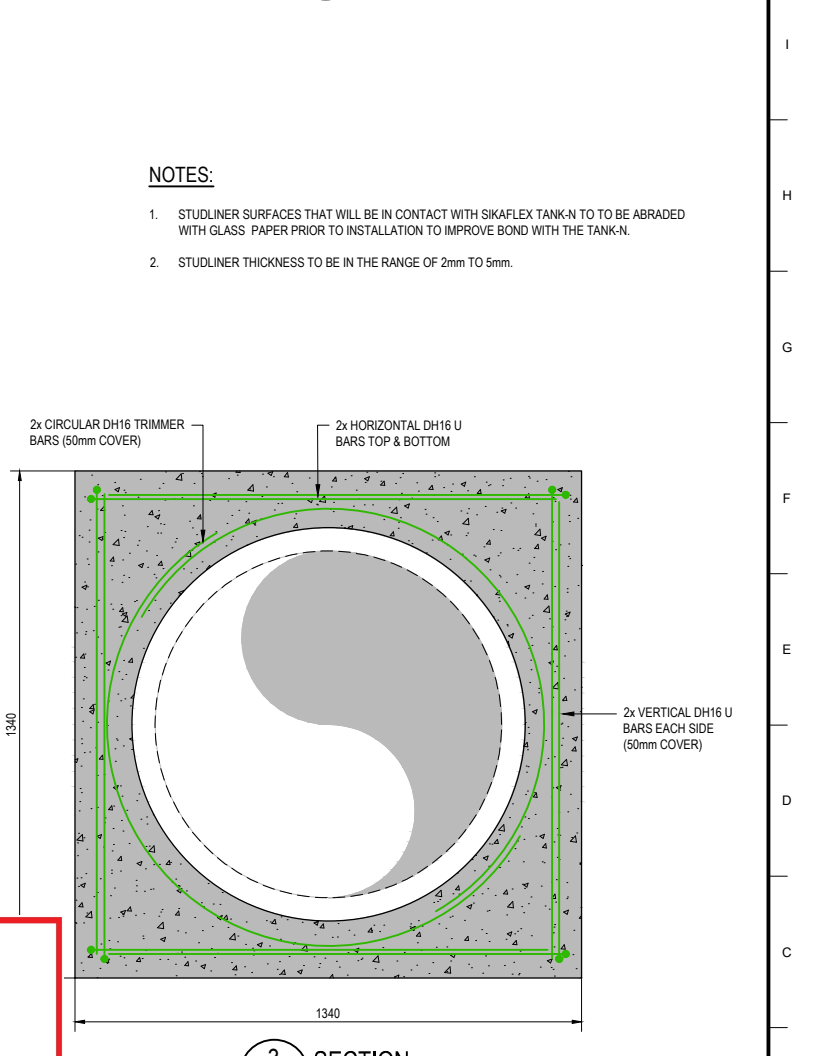
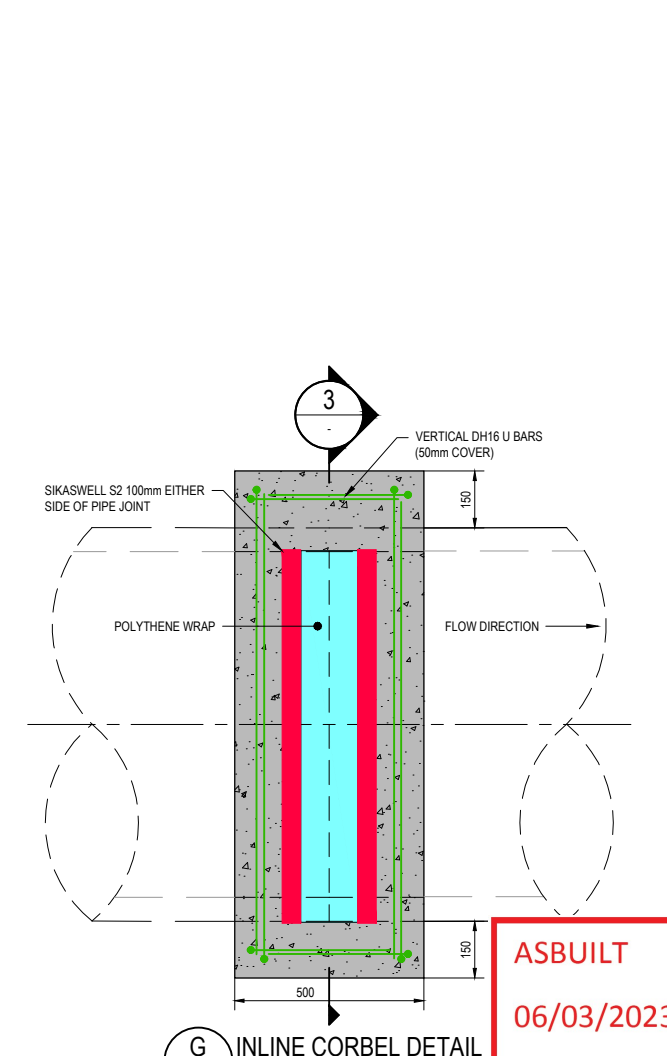
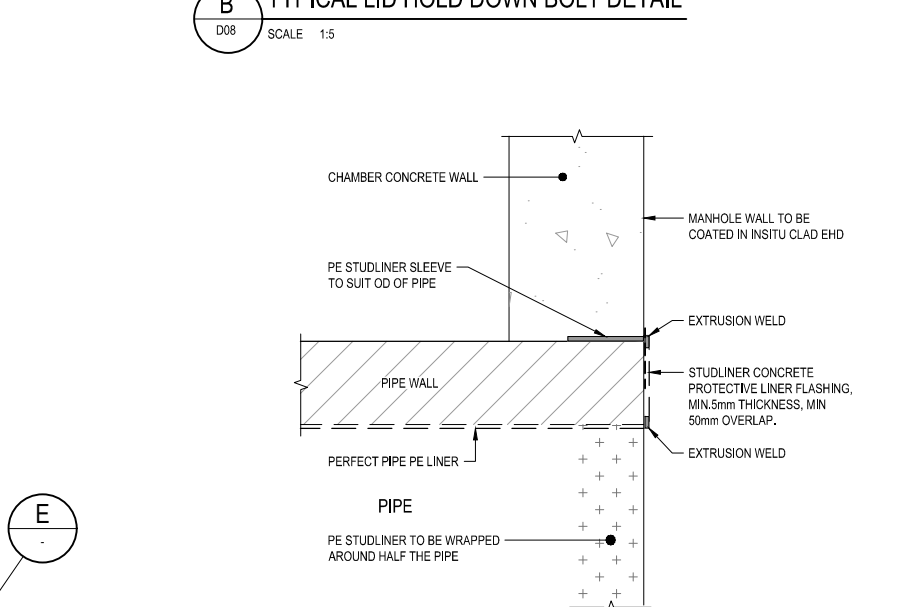
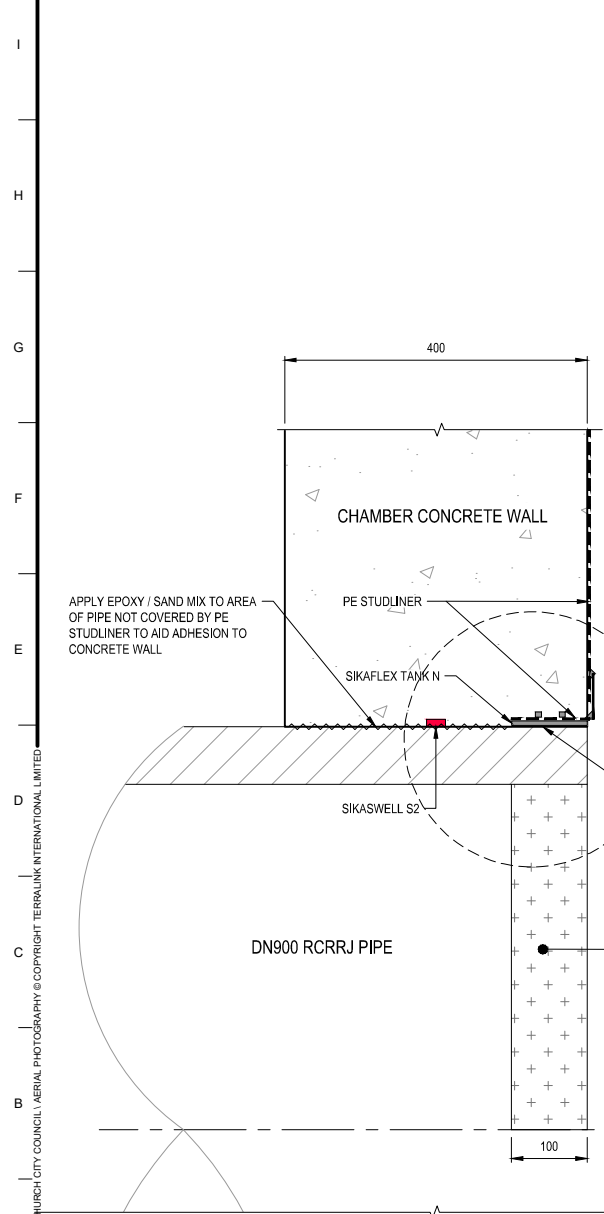
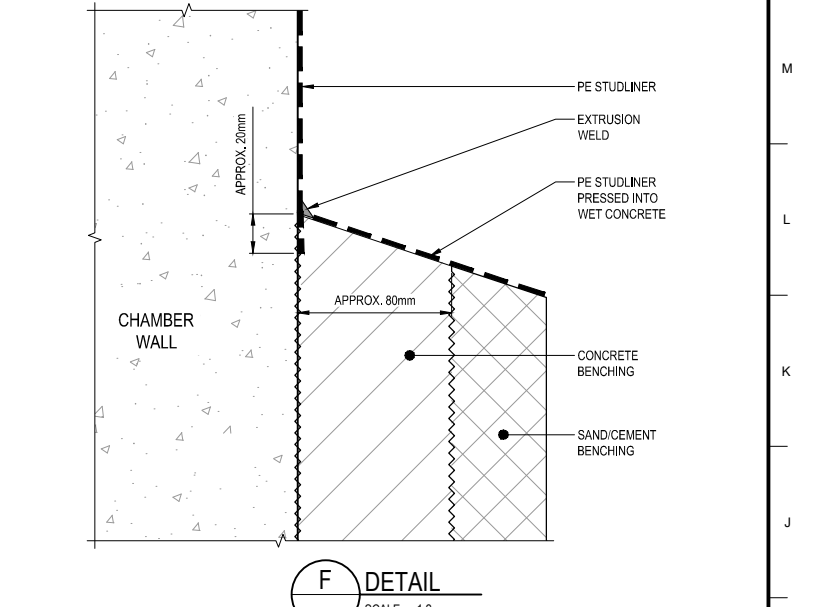
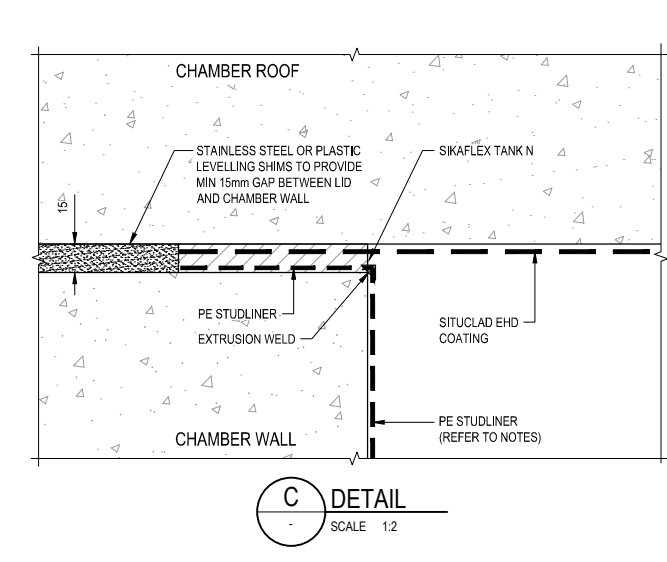
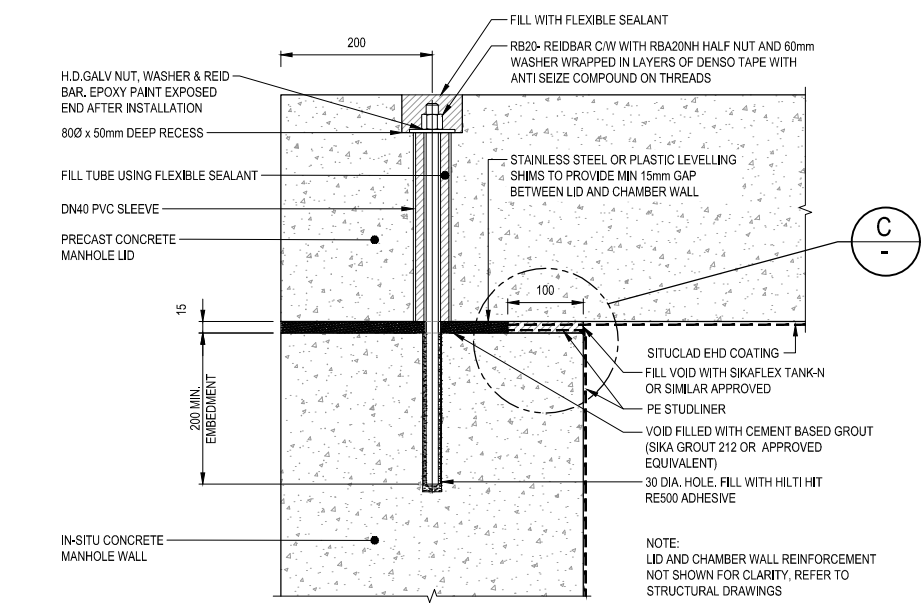
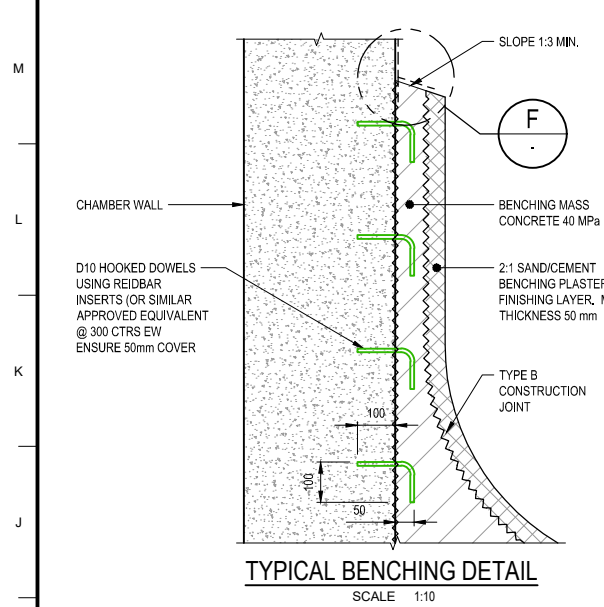
DATUM	C.D.D.	DESIGNED	NAME	SIGNED	DATE
BENCH MK.	-	DESIGNED	P Marshall	PM	05.20
RL	-	DES. REVIEW	P Reed	PR	05.20
SURVEY	-	DRAWN	R Simpson	RS	04.12.20
SURVEY LB	-	DRW. CHECK	R Simpson	RS	08.20
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SAP WBS	5222066	PRINTED ON	30/07/2021 1:55 pm	by	Richard Simpson

APPROVED	
FOR TENDER	FOR CONSTRUCTION
DATE	SIGNED
04.12.20	B Scott
DATE	SIGNED
06.07.21	B Scott

CONSULTANT		PROJECT TITLE	
Beca		HAYTON ROAD WASTEWATER RENEWAL	
CONSULTANT PROJECT REF.		CONSULTANT FILE REF.	
3364410		3364410-CA-107	

DRAWING TITLE	
NGA MAHI ROAD WASTEWATER MANHOLE PLAN AND DETAILS	
CONTRACT NUMBER	ORIGINAL SHEET SIZE
08/09-	A1
CAD DRAWING FILE REF.	AS SHOWN
CPG PROJECT FILE NUMBER	SHEET
CP503525	D08 OF 11

ISSUED FOR CONSTRUCTION	SIGNED	DATE
1	B Scott	06.07.21



- NOTES:**
- STUDLINER SURFACES THAT WILL BE IN CONTACT WITH SIKAFLEX TANK-N TO TO BE ABRADED WITH GLASS PAPER PRIOR TO INSTALLATION TO IMPROVE BOND WITH THE TANK-N.
 - STUDLINER THICKNESS TO BE IN THE RANGE OF 2mm TO 5mm.

ASBUILT
06/03/2023
Joshua Morgan

ORIGINAL DRAWING
IN COLOUR

FOR CONSTRUCTION

VESTED INFRASTRUCTURE - WASTEWATER
All work to be in accordance with I.D.S. & C.S.S. Pt.1-7
ACCEPTED
07 - Jul - 2021
CITY WATER & WASTE
CHRISTCHURCH CITY COUNCIL
Gunn, Jeremy



DATUM	C.D.D.	DESIGNED	NAME	SIGNED	DATE	APPROVED	FOR TENDER
BENCH MK.			P Marshall	PM	05.20		
RL		DES. REVIEW	P Reed	PR	05.20		
SURVEY		DRAWN	R Simpson	RS	04.12.20		B Scott
SURVEY LB		DRW. CHECK	R Simpson	RS	08.20		
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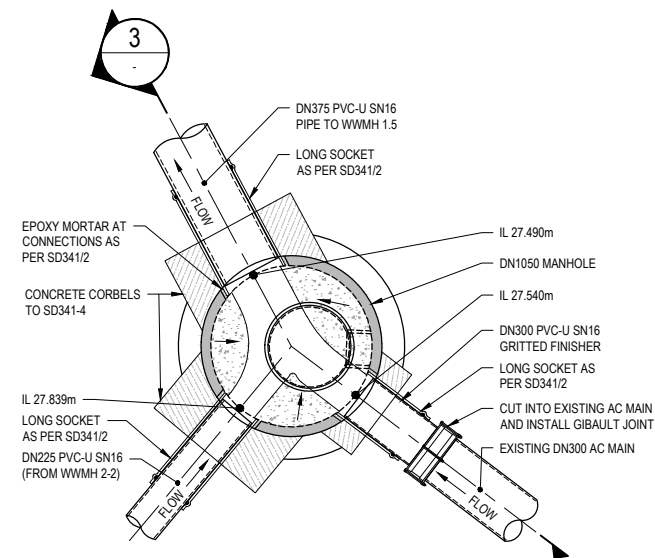
PROJECT TITLE
HAYTON ROAD WASTEWATER RENEWAL

DRAWING TITLE
WASTEWATER MANHOLE DETAILS SHEET 1

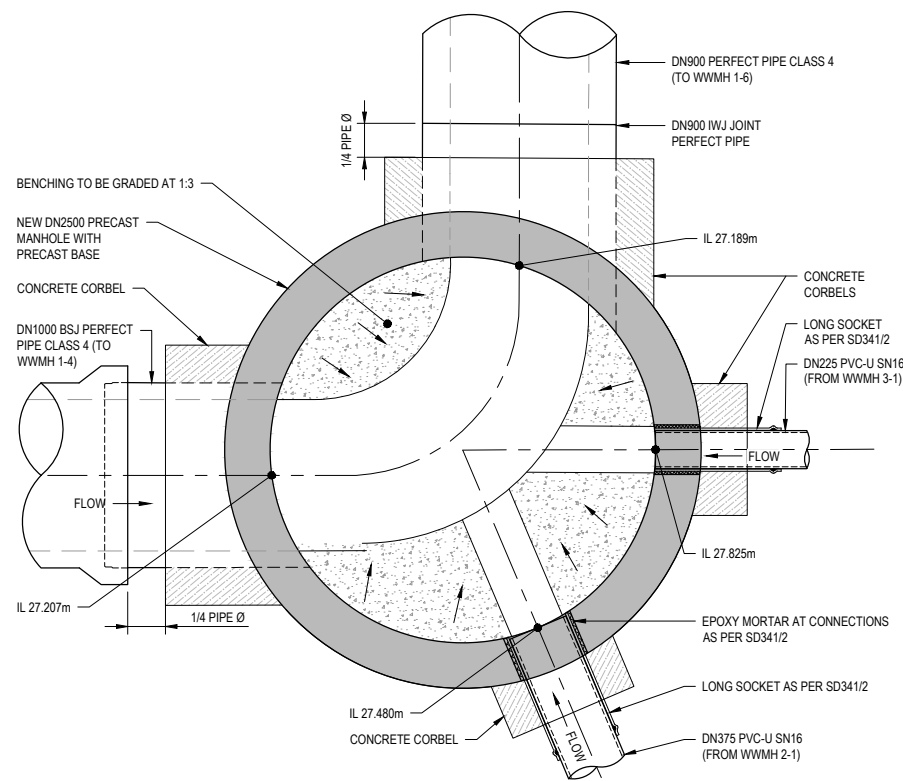
CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALES
08/09-	A1	AS SHOWN
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CP503525	D09 OF 11	

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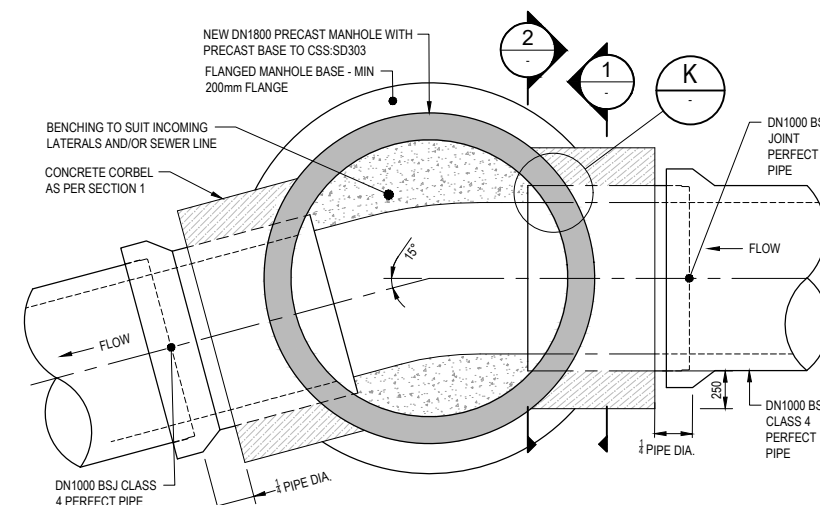
1. REFER TO DRAWING D01 FOR GENERAL NOTES.
2. ALL MANHOLES TO BE COATED IN-SITU CLAD EHD.
3. FOR BENCHING, REFER TO TYPICAL BENCHING DETAIL ON DRG D09.



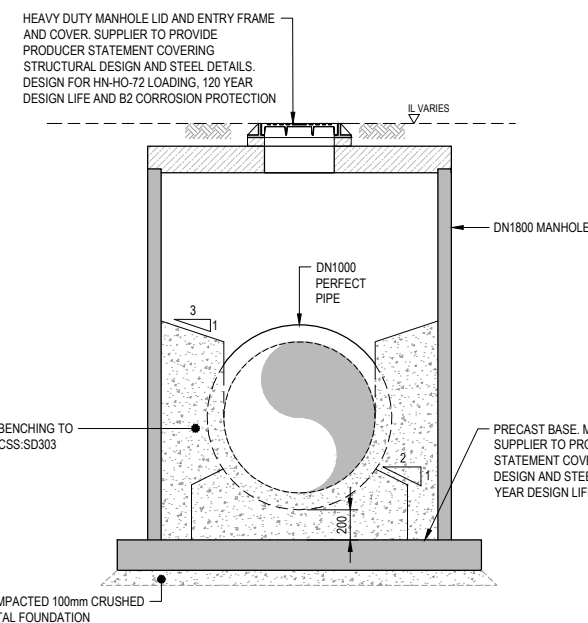
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SCALE 1:25



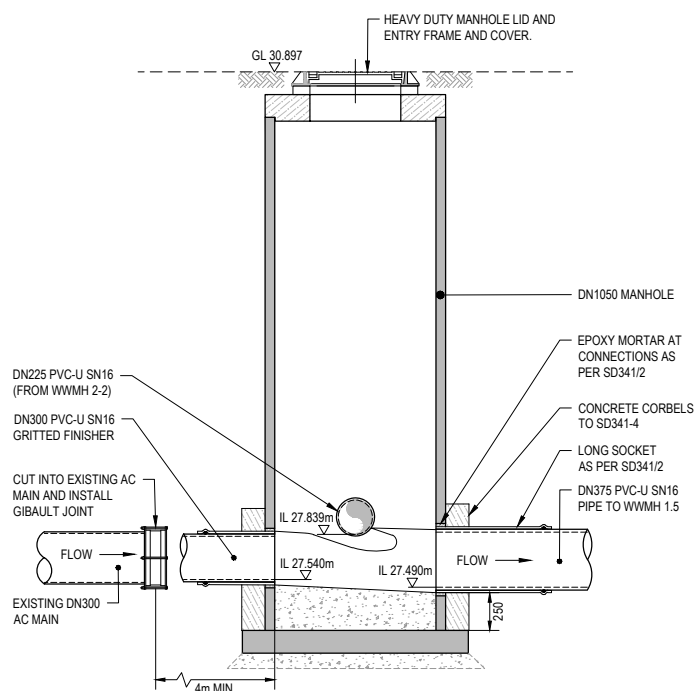
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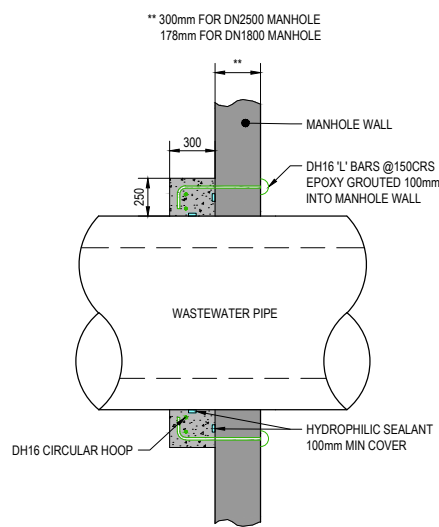
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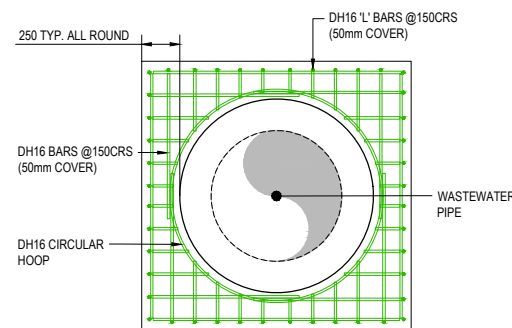
2 WWMH CONNECTION DETAIL
SCALE 1:25



3 SECTION
SCALE 1:25



K DETAIL
SCALE 1:25



1 SECTION
SCALE 1:25

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VESTED INFRASTRUCTURE - WASTEWATER
All work to be in accordance with I.D.S. & C.S.S. Pt.1-7
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07 - Jul - 2021
CITY WATER & WASTE
CHRISTCHURCH CITY COUNCIL
Gunn, Jeremy

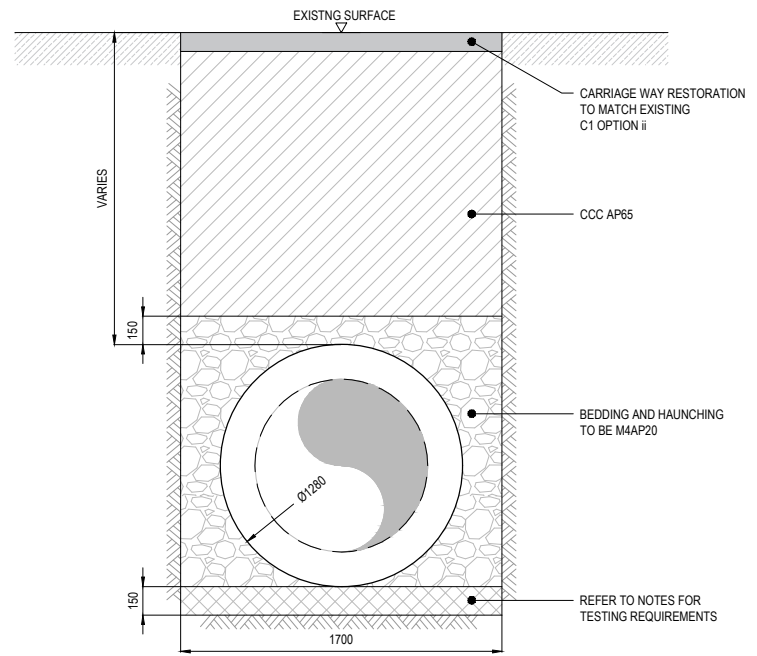
ORIGINAL DRAWING
IN COLOUR

FOR CONSTRUCTION

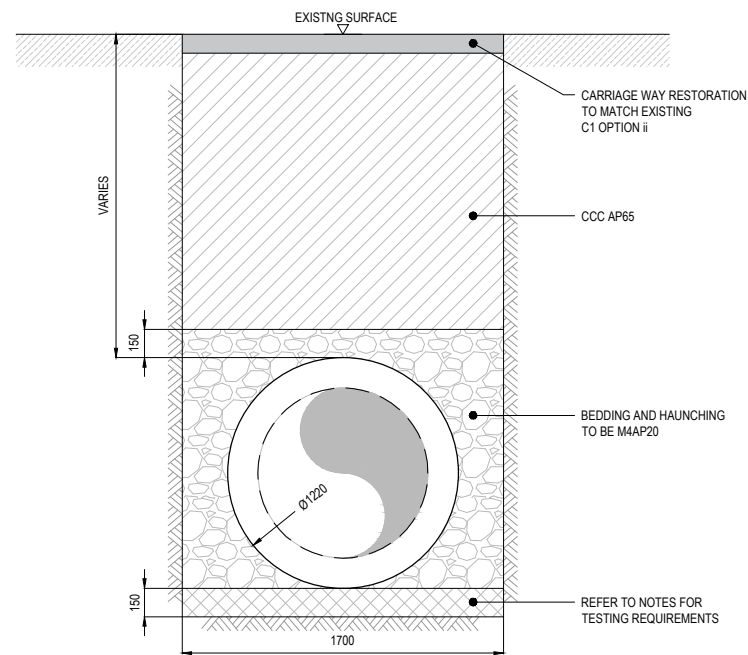
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BENCH MK.	-	DESIGNED	P Marshall	08.20
RL	-	DES. REVIEW	P Reed	08.20
SURVEY	-	DRAWN	R Simpson	08.20
SURVEY LB	-	DRW. CHECK	R Simpson	07.21
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SAP WBS	5222966	PRINTED ON	30/07/2021 1:38 pm	gy\Richard Simpson

APPROVED		CONSULTANT	
FOR TENDER		Beca	
DATE	SIGNED	CONSULTANT PROJECT REF.	CONSULTANT FILE REF.
04.12.20	B Scott	3364410	CA-109

CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALES
08/09-	A1	AS SHOWN
CPG PROJECT FILE NUMBER	SHEET	
CP503525	D10 OF 11	



A TYPICAL TRENCH DETAIL WITH IWJ JOINTED DN900 CLASS 4 PERFECT PIPE
SCALE 1:20



B TYPICAL TRENCH DETAIL WITH BSJ JOINTED DN1000 CLASS 4 PERFECT PIPE
SCALE 1:20

TRENCH NOTES:

1. PRIOR TO CONSTRUCTION, DEWATERING DESIGN IS REQUIRED TO MITIGATE AGAINST DAMAGING THE IN-SITU SOIL STRUCTURE DURING CONSTRUCTION.
2. UNDERTAKE SCALA PENETROMETER TESTING AT 2m CENTRES ALONG CENTRELINE OF PIPE ALIGNMENT TO A DEPTH OF 2.5 m BELOW PIPE INVERT.
3. CCC AP20 AND CCC AP65 SHALL BE COMPACTED TO A MINIMUM DRY DENSITY OF 2050 KG/M³
4. WHERE TESTING INDICATES AN ALLOWABLE BEARING CAPACITY OF > 50 kPa AVERAGE DEMONSTRATED WITH DYNAMIC CONE PENETROMETER TESTING (DCP/SCALA) RECORDINGS LESS THAN 70 mm PER BLOW OVER UPPER 300 mm OF TRENCH SUBGRADE, A SOFT RAFT FOUNDATION IS NOT REQUIRED.
5. WHERE TESTING INDICATES AN ALLOWABLE BEARING CAPACITY OF < 50 kPa CONTACT THE ENGINEER FOR FURTHER INSTRUCTION.
6. WHERE TRENCH SUBGRADE IS COHESIVE SILT OR CLAY AND SCALA PENETROMETER READINGS ARE > 200 mm PER BLOW BELOW 500 mm DEPTH, SUBMIT RESULTS IN A 'REQUEST FOR INFORMATION' TO CONTRACTS ENGINEER FOR INSTRUCTION.
7. SCALA PENETROMETER TESTING TO BE IN ACCORDANCE WITH NZS 4402 TEST 6.5.2.

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CHRISTCHURCH CITY COUNCIL
Gunn, Jeremy

FOR CONSTRUCTION

1	ISSUED FOR CONSTRUCTION	B Scott	06.07.21
ISSUE	AMENDMENTS	SIGNED	DATE



DATUM	C.D.D.	DESIGNED	NAME	SIGNED	DATE
BENCH MK.	-	DESIGNED	P Marshall	PM	08.20
RL	-	DES. REVIEW	P Reed	PR	08.20
SURVEY	-	DRAWN	R Simpson	RS	08.20
SURVEY LB	-	DRW. CHECK	R Simpson	RAS	07.21
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SAP WBS	5222066	PRINTED ON	07/07/2021 1:48 pm	gyRichard Simpson	

APPROVED	
FOR TENDER	FOR CONSTRUCTION
DATE	SIGNED
07.21	B Scott
DATE	SIGNED
06.07.21	B Scott

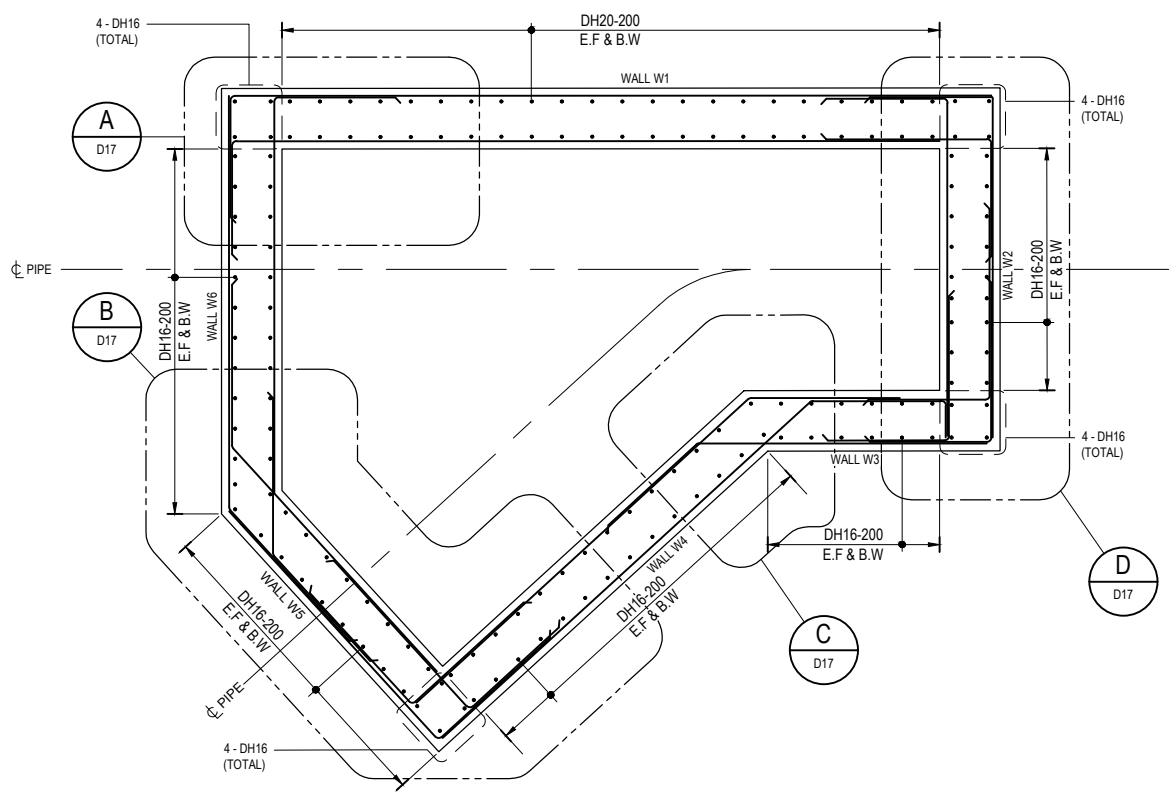
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Beca	
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3364410	CA-110

PROJECT TITLE
HAYTON ROAD WASTEWATER RENEWAL MANHOLE DETAILS

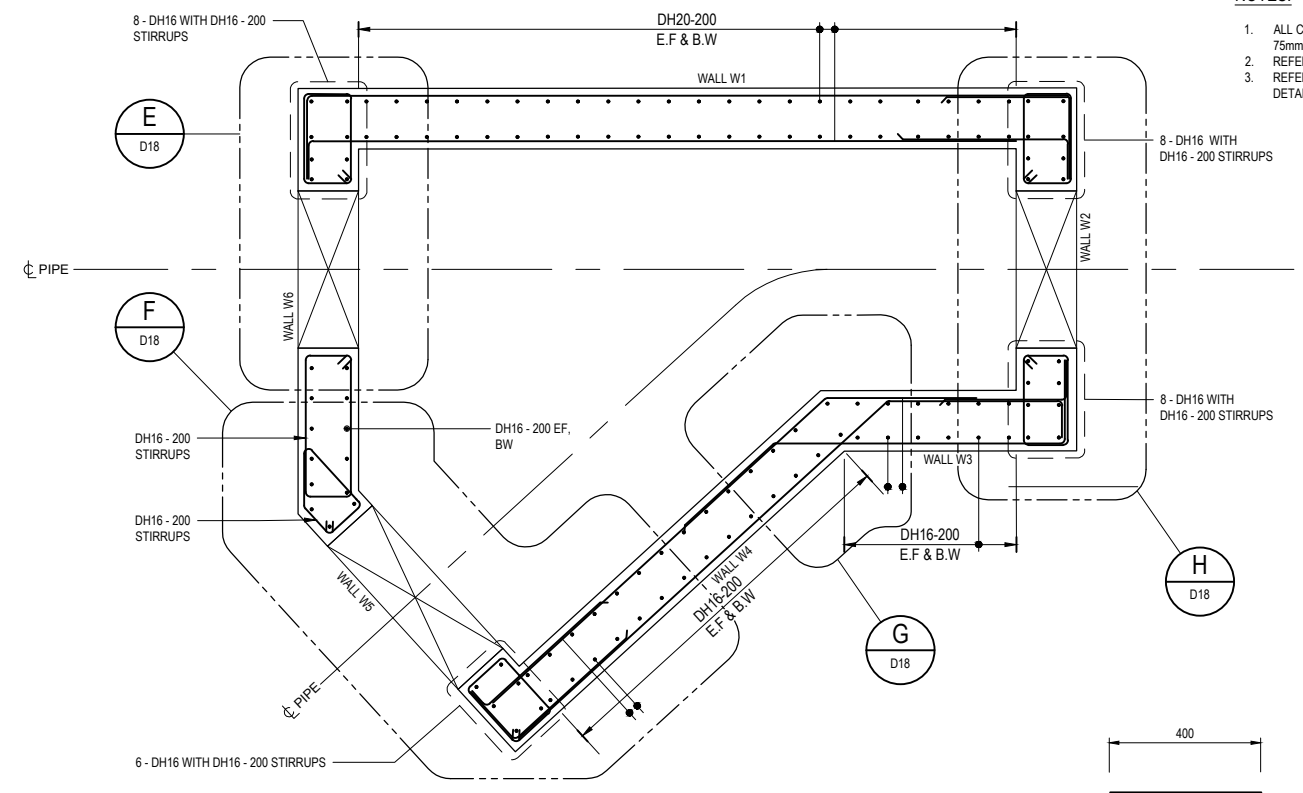
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CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALES
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CAD DRAWING FILE REF.		
CPG PROJECT FILE NUMBER	SHEET	
CP503525	D11 OF 11	

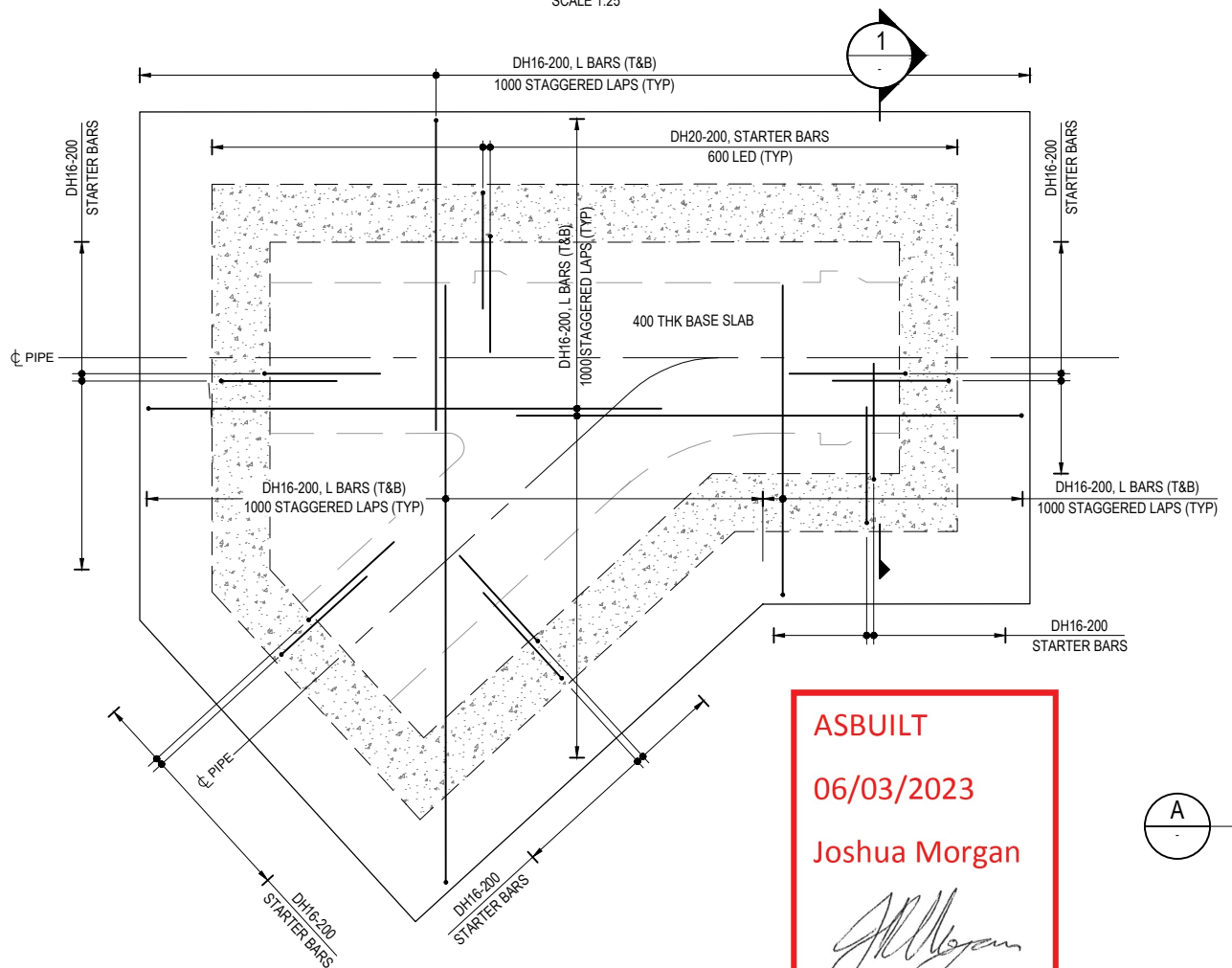
- NOTES:**
1. ALL CONCRETE TO BE 40 MPa WITH 50mm COVER, EXCEPT 75mm COVER TO GROUND.
 2. REFER ALSO TO SPECIFICATION.
 3. REFER TO DRAWINGS D08 AND D09 FOR ADDITIONAL DETAILS.



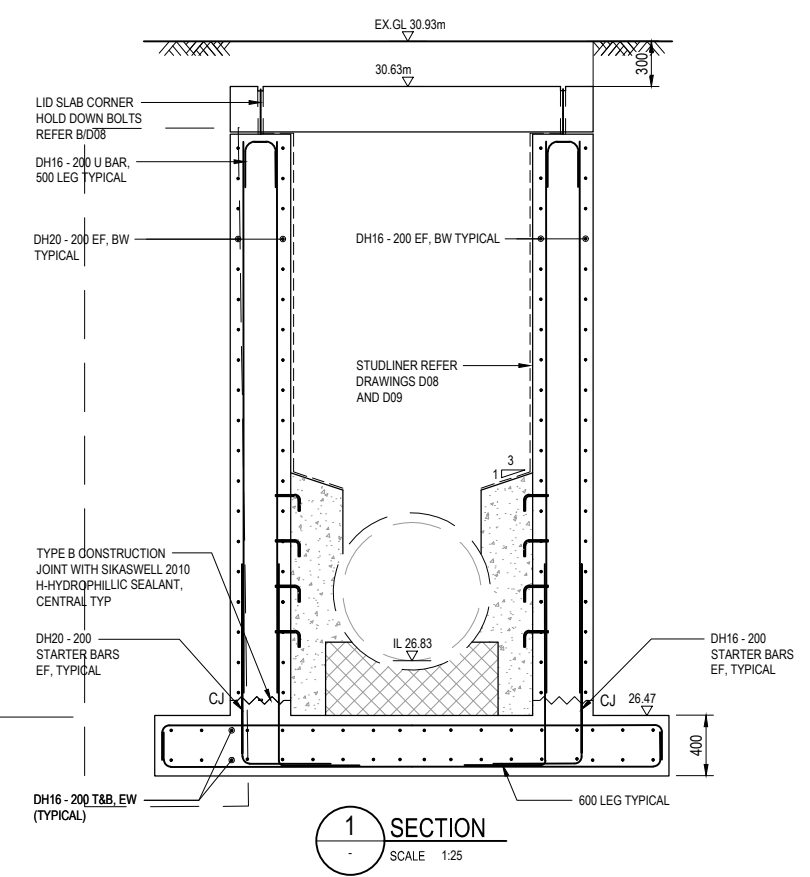
WALL REINFORCEMENT PLAN - ABOVE PIPE PENETRATION LEVEL
SCALE 1:25



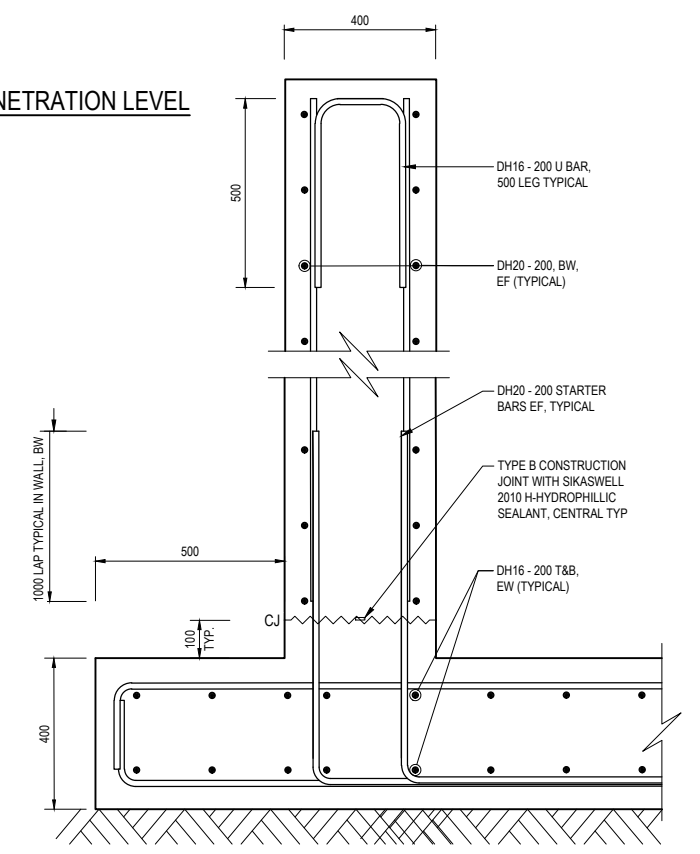
WALL REINFORCEMENT PLAN - AT PIPE PENETRATION LEVEL
SCALE 1:25



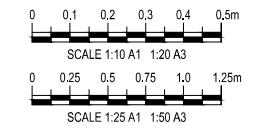
BASE SLAB REINFORCING PLAN
SCALE 1:25



SECTION 1
SCALE 1:25



DETAIL A
SCALE 1:10



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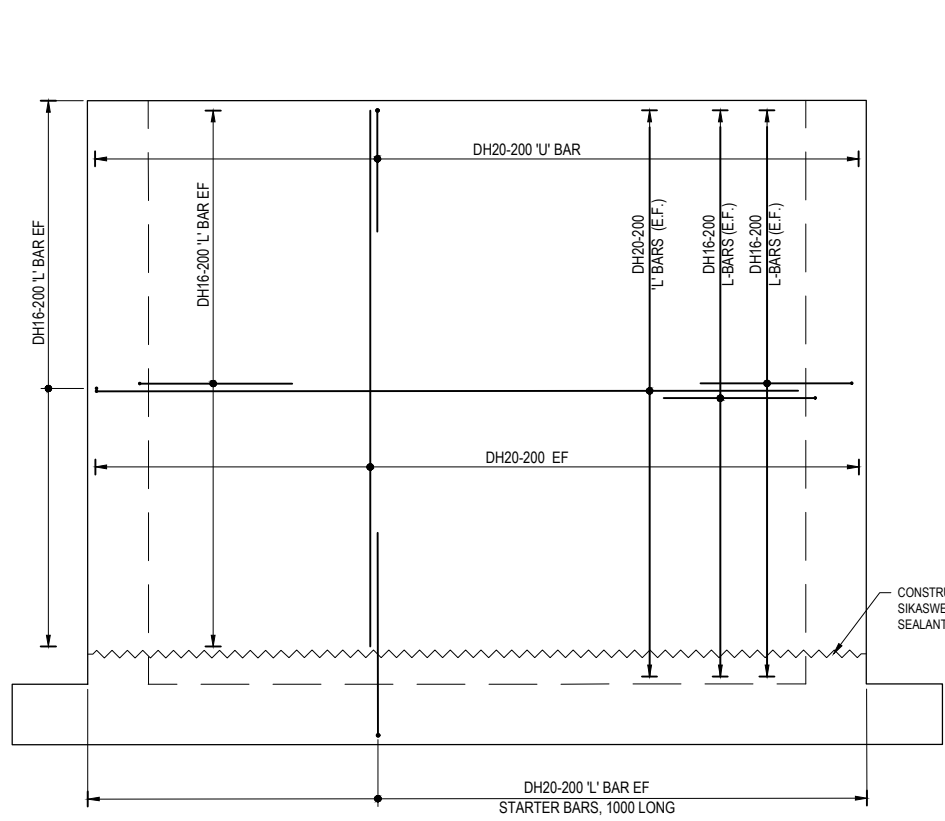
DATUM	C.D.D.	NAME	SIGNED	DATE
BENCH MK.		G. Aitken	GA	08.20
RL		M. Branfield	MB	08.20
SURVEY		Stn	STN	08.20
SURVEY LB		R. Simpson	RS	08.20
CPMS	57643	FILE LOCATION	F:\30\3344\15\CA0	
DRAIN REF.	16066		3344\15\115.dwg	
SAP WBS	5222066	PRINTED ON	30/07/2021 1:46 pm	gyr@richard.simpson

APPROVED		CONSULTANT
FOR TENDER		Beca
DATE	SIGNED	
04.12.20	B. Scott	
FOR CONSTRUCTION		
DATE	SIGNED	
06.07.21	B. Scott	
CONSULTANT PROJECT REF.	CONSULTANT FILE REF.	
3364410	3364410-CA-107	

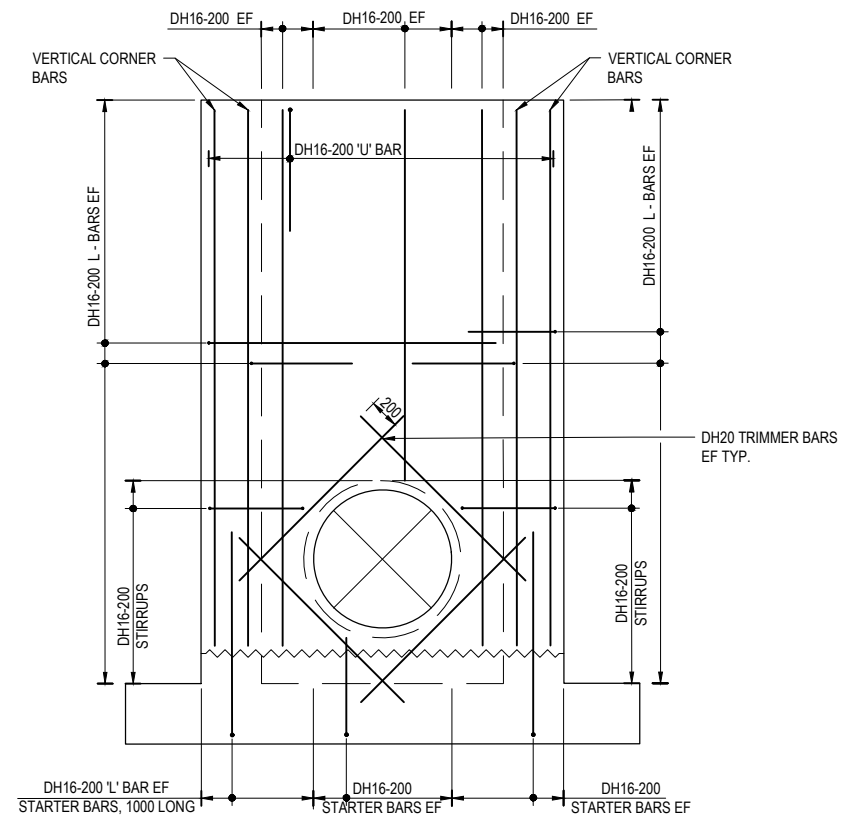
PROJECT TITLE
HAYTON ROAD WASTEWATER RENEWAL

DRAWING TITLE
NGA MAHI ROAD MANHOLE PLAN, SECTION & DETAILS

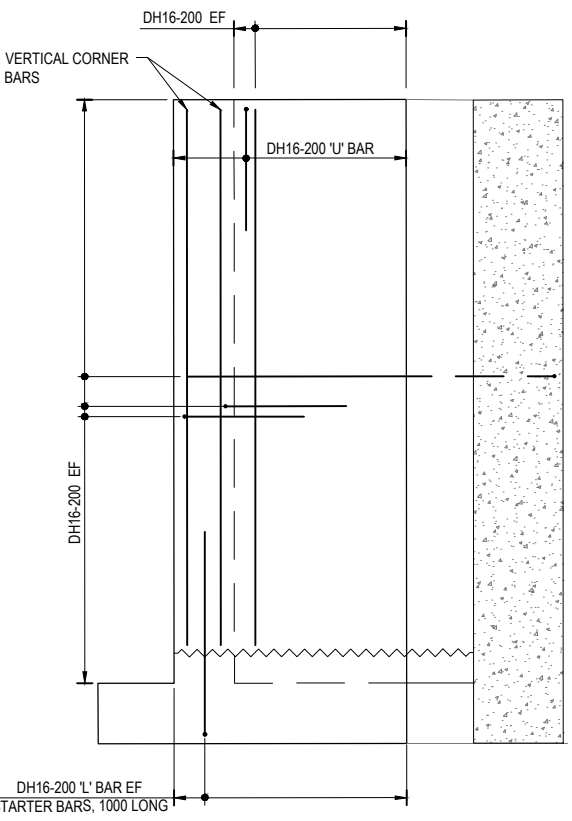
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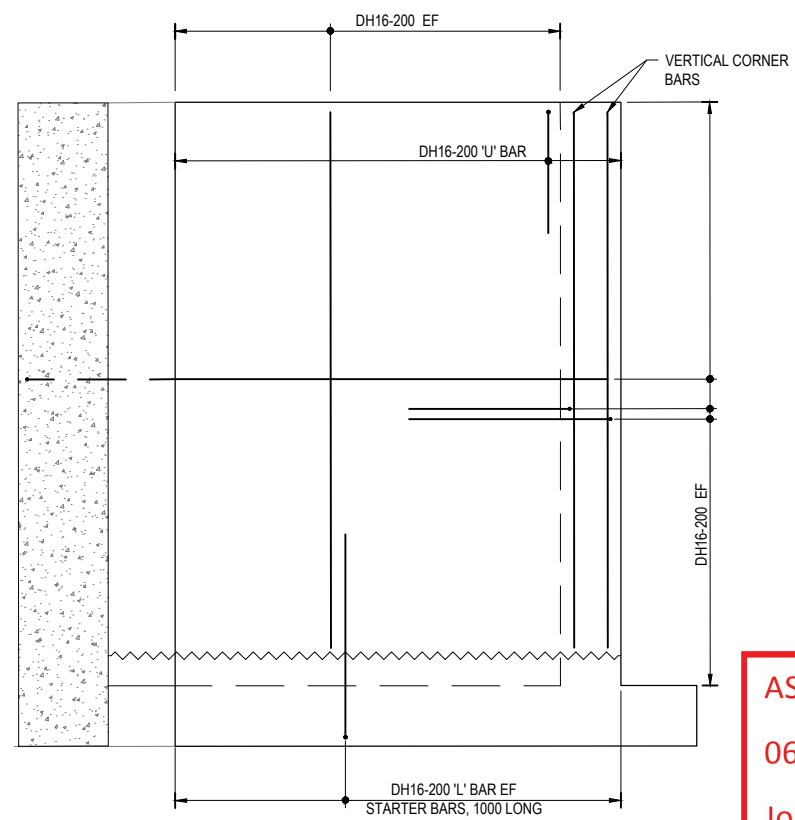


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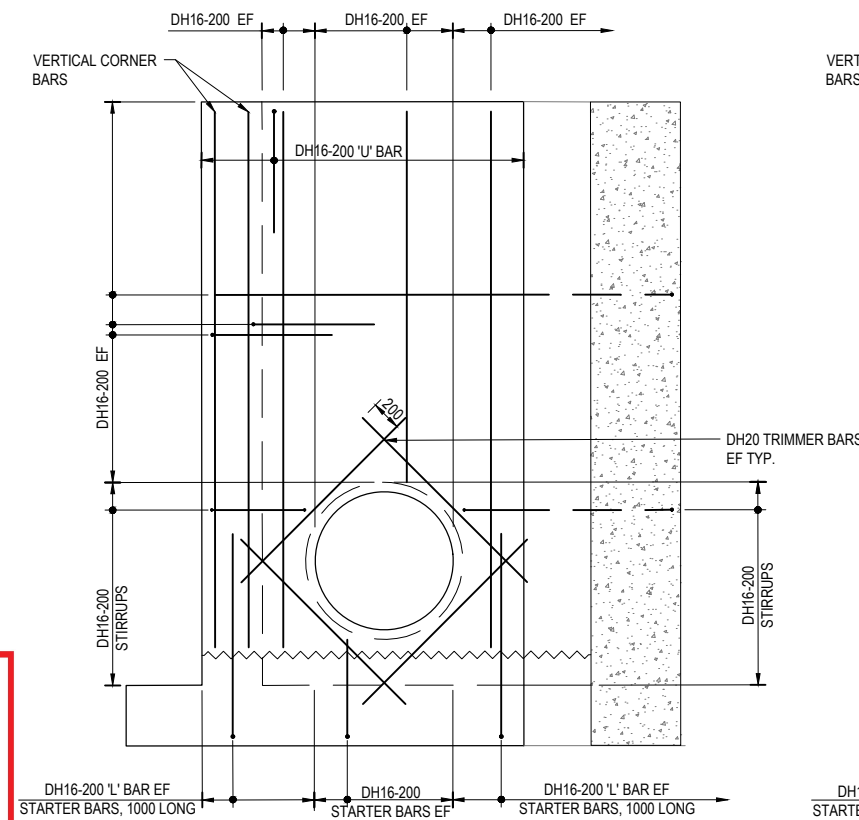


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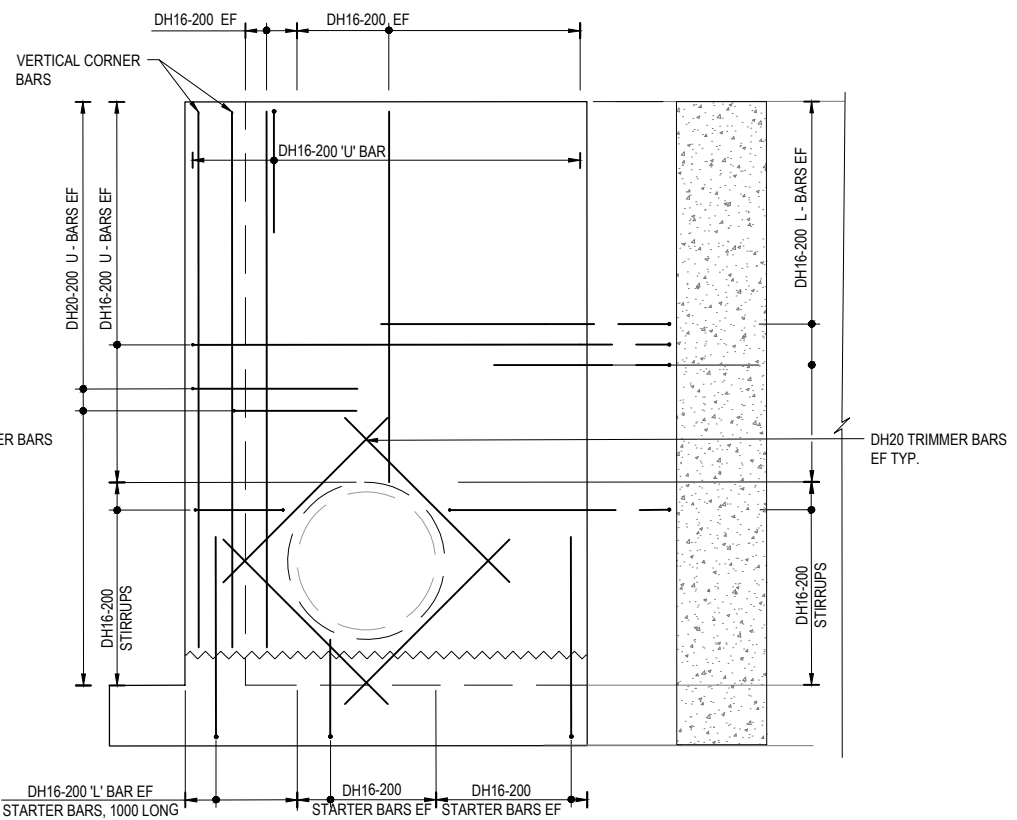
- NOTES:**
1. ALL CONCRETE TO BE 40 MPa WITH 50mm COVER, EXCEPT 75mm COVER TO GROUND.
 2. REFER ALSO TO SPECIFICATION.
 3. REFER TO DRAWINGS D08 AND D09 FOR ADDITIONAL DETAILS.



WALL 4 REINFORCEMENT
SCALE 1:25

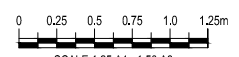


WALL 5 REINFORCEMENT
SCALE 1:25



WALL 6 REINFORCEMENT
SCALE 1:25

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DATUM	C.D.D.	NAME	SIGNED	DATE	APPROVED
BENCH MK.	-	DESIGNED	G. Aitken	GA	08.20
RL	-	DES. REVIEW	M. Branfield	MB	08.20
SURVEY	-	DRAWN	STN	STN	04.12.20
SURVEY LB	-	DRW. CHECK	R. Simpson	RS	08.20
CPMS	57643	FILE LOCATION	F:\30\3344\116.dwg		
DRAIN REF.	16966	PRINTED ON	30/07/2021 1:45 pm		
SAP WBS	5222066	PRINTED BY	Richard Simpson		



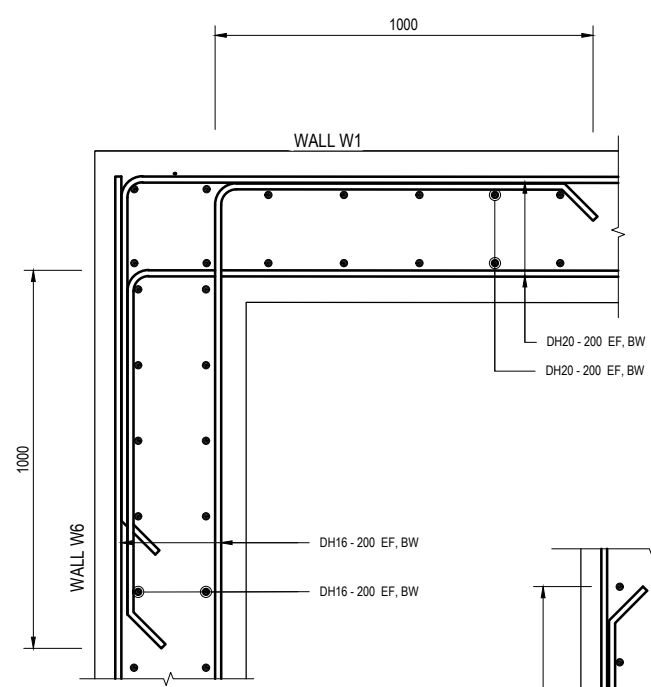
HAYTON ROAD WASTEWATER RENEWAL

NGA MAHI ROAD WALLS REINFORCEMENT

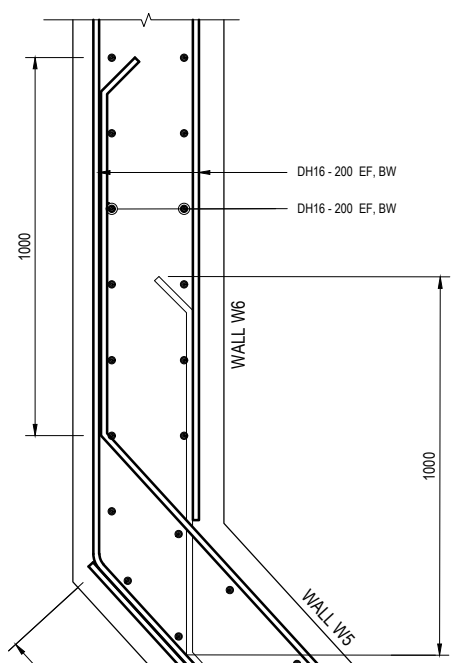
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1	ISSUED FOR CONSTRUCTION	B. Scott	06.07.21
	AMENDMENTS	SIGNED	DATE

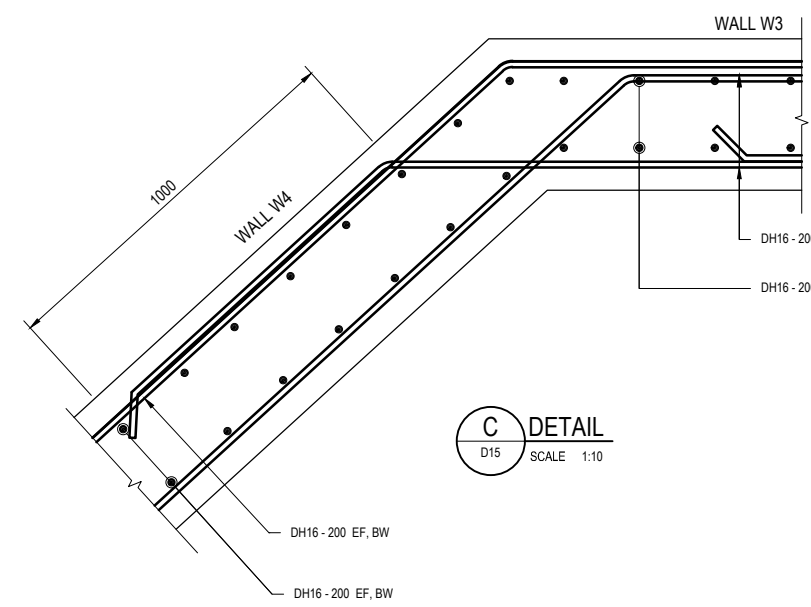
- NOTES:**
1. ALL CONCRETE TO BE 40 MPa WITH 50mm COVER, EXCEPT 75mm COVER TO GROUND.
 2. REFER ALSO TO SPECIFICATION.
 3. REFER TO DRAWINGS D08 AND D09 FOR ADDITIONAL DETAILS.



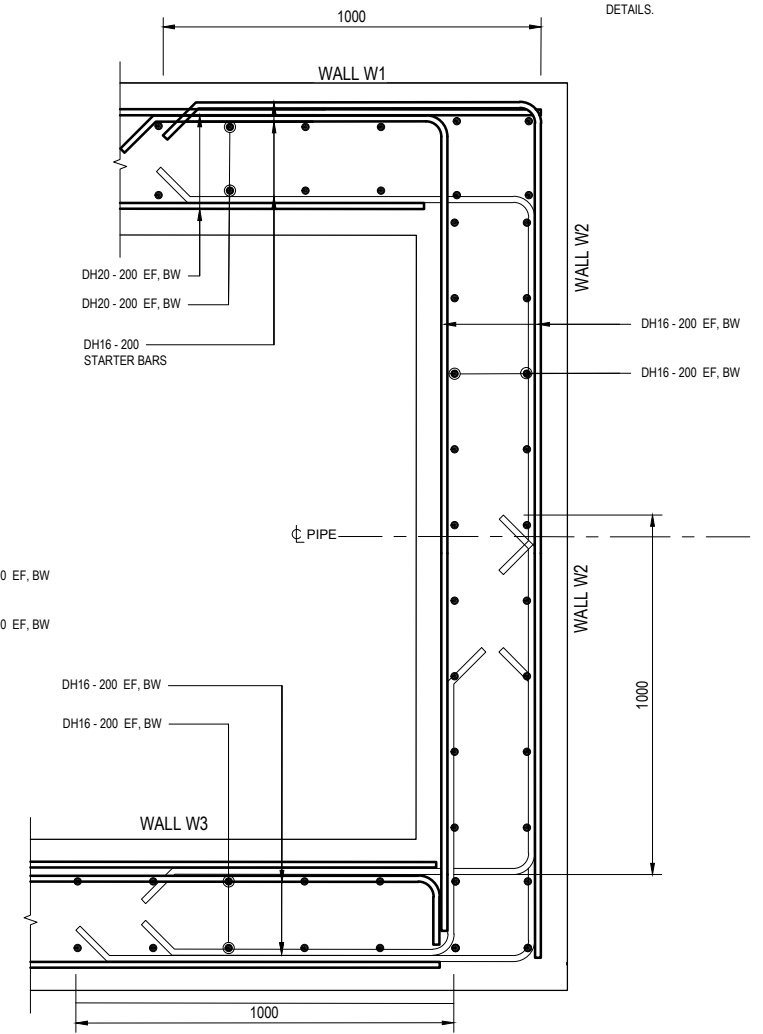
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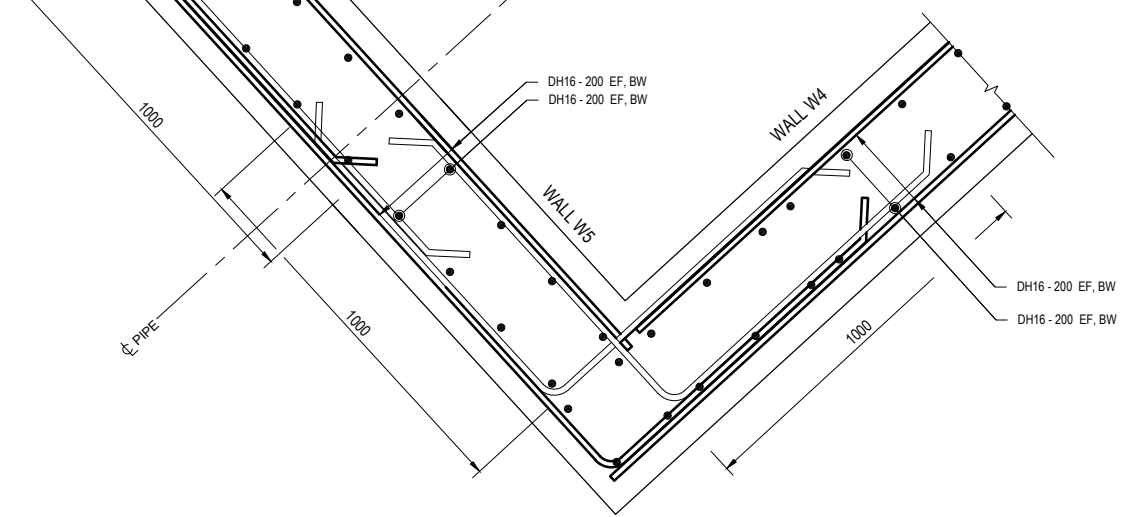
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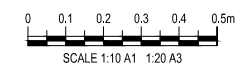
C DETAIL
D15 SCALE 1:10



D DETAIL
D15 SCALE 1:10



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VESTED INFRASTRUCTURE - WASTEWATER
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CITY WATER & WASTE
CHRISTCHURCH CITY COUNCIL
Gunn, Jeremy

FOR CONSTRUCTION

1	ISSUED FOR CONSTRUCTION	B. Scott	06.07.21
ISSUE	AMENDMENTS	SIGNED	DATE

DATUM	C.D.D.	DESIGNED	NAME	SIGNED	DATE
BENCH MK.	-	DESIGNED	G. Aitken	GA	08.20
RL	-	DES. REVIEW	M. Branfield	MB	08.20
SURVEY	-	DRAWN	STN	STN	04.12.20
SURVEY LB	-	DRW. CHECK	R. Simpson	RS	08.20
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SAP WBS	5222066	PRINTED ON	30/07/2021 1:45 pm	BY	Richard Simpson

APPROVED	
FOR TENDER	FOR CONSTRUCTION
DATE	SIGNED
04.12.20	B. Scott
DATE	SIGNED
06.07.21	B. Scott

BeCa	
CONSULTANT PROJECT REF.	CONSULTANT FILE REF.
3364410	3364410-ST-117

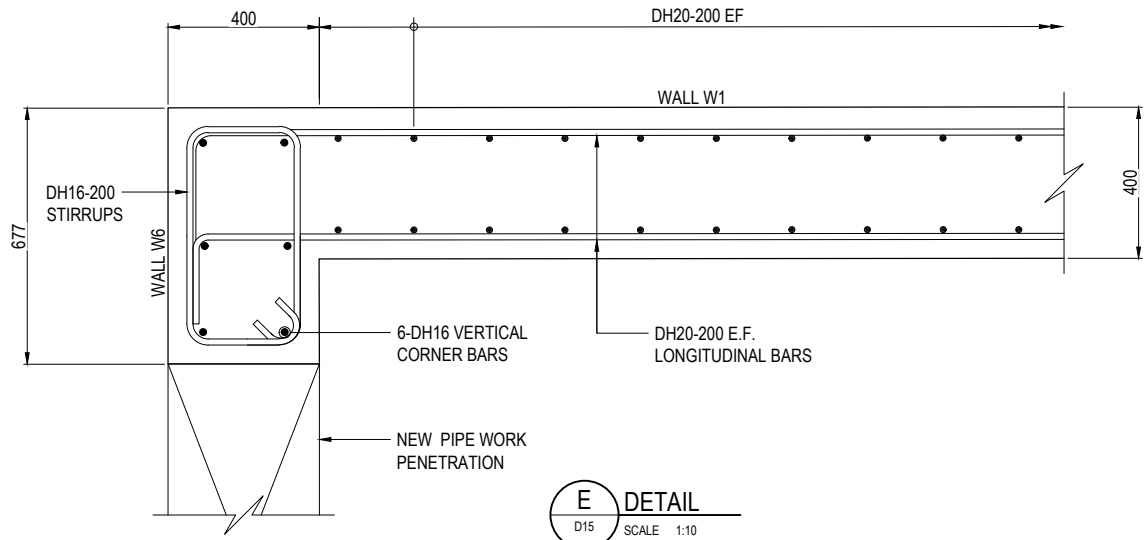
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HAYTON ROAD WASTEWATER RENEWAL

DRAWING TITLE
NGA MAHI ROAD WALL REINFORCEMENT DETAIL SHEET 1

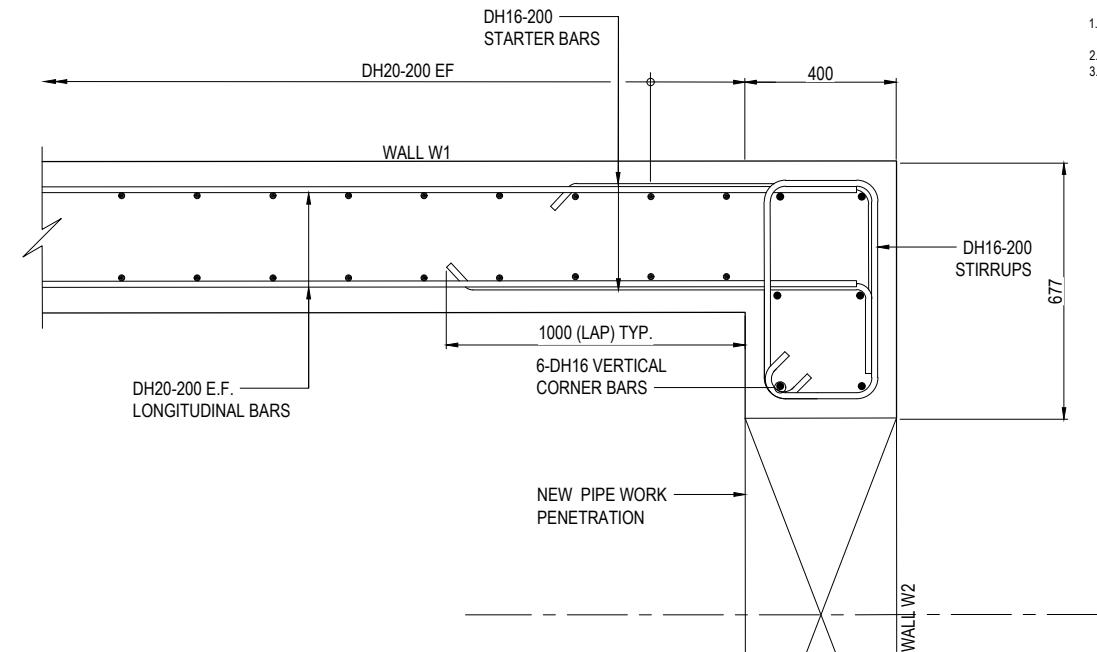
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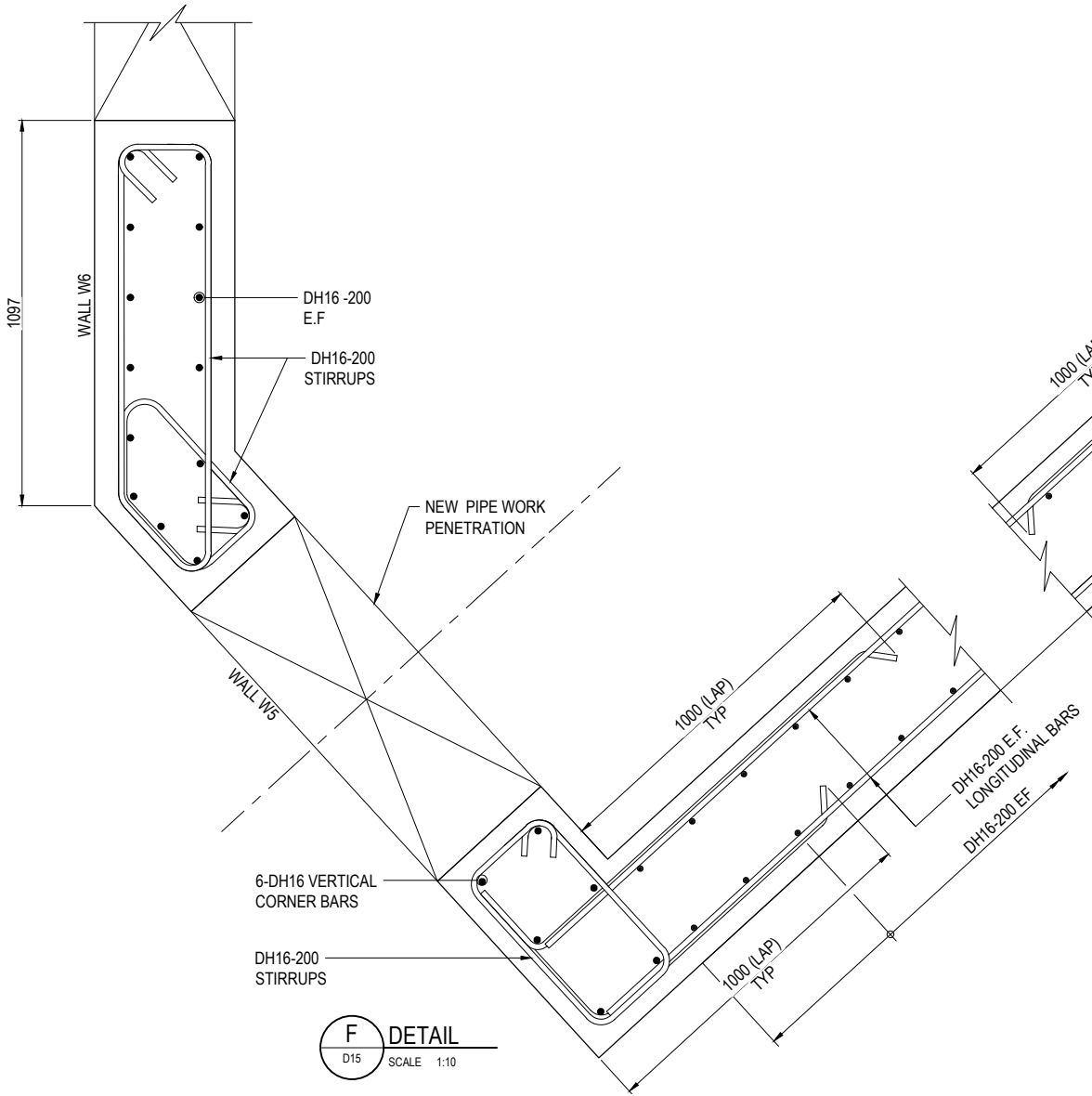
1. ALL CONCRETE TO BE 40 MPa WITH 50mm COVER, EXCEPT 75mm COVER TO GROUND.
2. REFER ALSO TO SPECIFICATION.
3. REFER TO DRAWINGS D08 AND D09 FOR ADDITIONAL DETAILS.



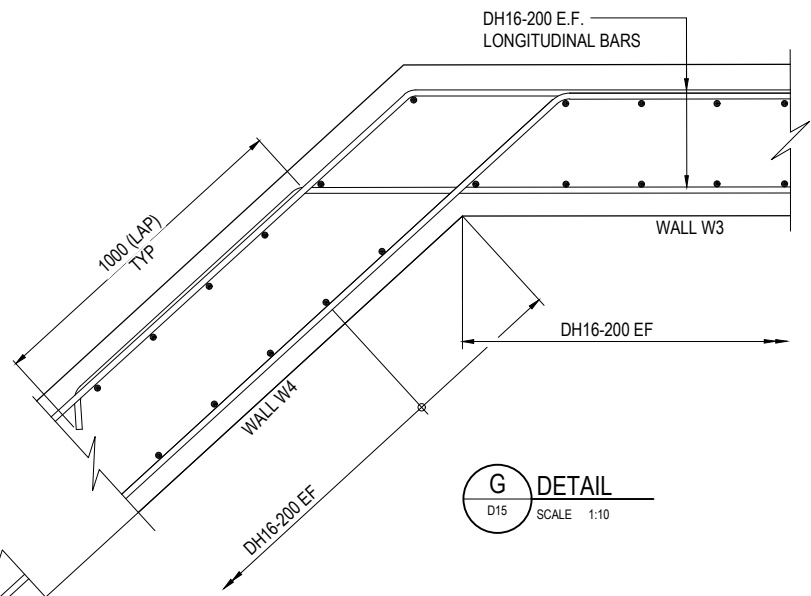
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D15 SCALE 1:10



H DETAIL
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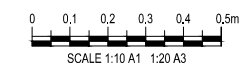


F DETAIL
D15 SCALE 1:10



G DETAIL
D15 SCALE 1:10

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Joshua Morgan

VESTED INFRASTRUCTURE - WASTEWATER
All work to be in accordance with L.D.S. & C.S.S. Pt.1-7

ACCEPTED
07 - Jul - 2021
CITY WATER & WASTE
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Gunn, Jeremy

FOR CONSTRUCTION



DATUM	C.D.D.	DESIGNED	NAME	SIGNED	DATE
BENCH MK.	-	DESIGNED	G. Aitken	GA	08.20
RL	-	DES. REVIEW	M. Branfield	MB	08.20
SURVEY	-	DRAWN	STN	STN	04.12.20
SURVEY LB	-	DRW. CHECK	R. Simpson	RS	08.20
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SAP WBS	5222066	PRINTED ON	31/07/2021 1:47 pm by Richard Simpson		

APPROVED	
FOR TENDER	FOR CONSTRUCTION
DATE	SIGNED
04.12.20	B. Scott
DATE	SIGNED
06.07.21	B. Scott

CONSULTANT	
Beca	
CONSULTANT PROJECT REF.	CONSULTANT FILE REF.
3364410	3364410-ST-118

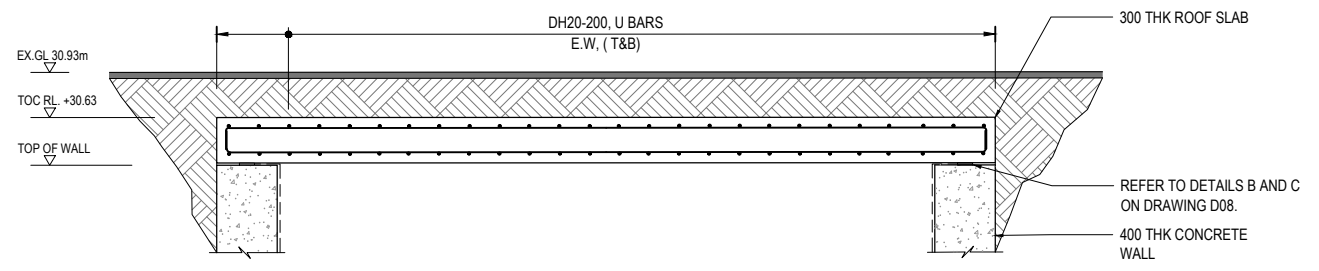
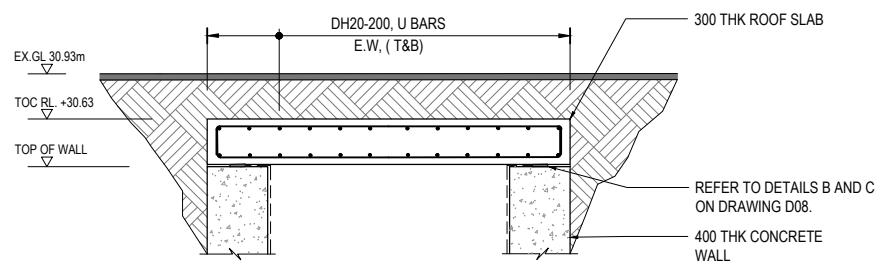
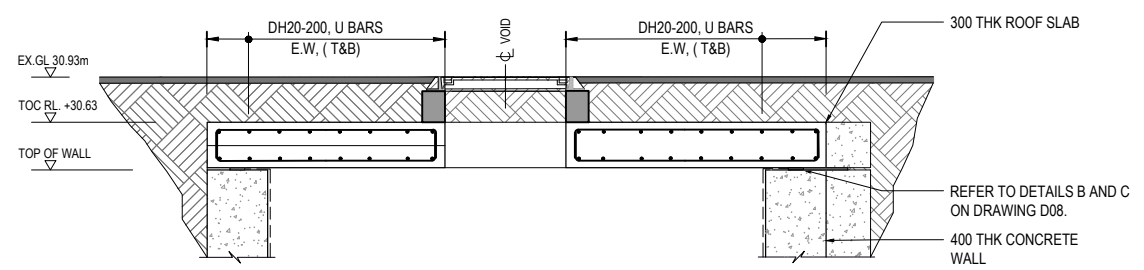
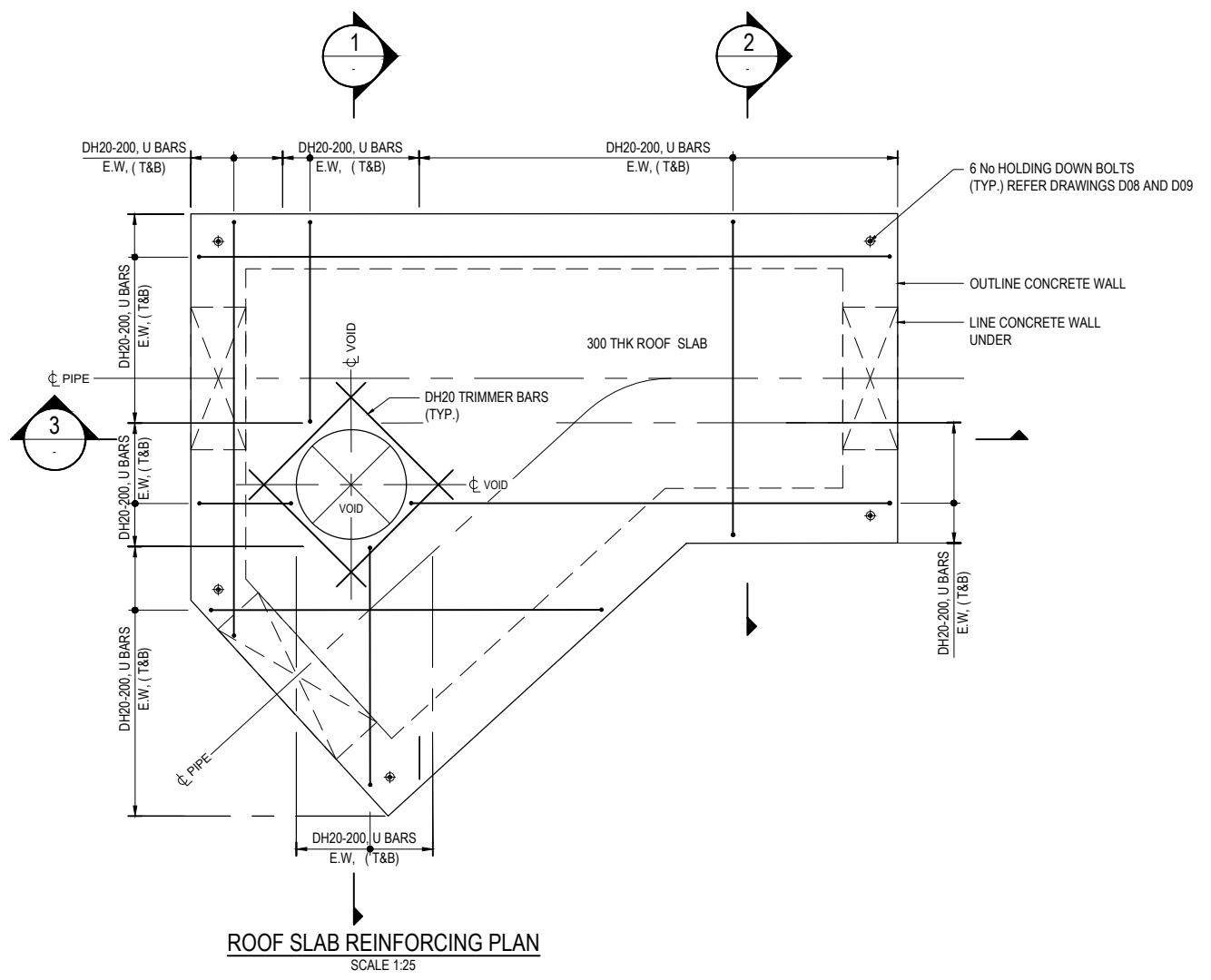
PROJECT TITLE
HAYTON ROAD WASTEWATER RENEWAL

DRAWING TITLE
NGA MAHI ROAD WALL REINFORCEMENT DETAILS SHEET 2


CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALES
08/09-	A1	AS SHOWN
CAD DRAWING FILE REF.		
CPG PROJECT FILE NUMBER	SHEET	
CP503525	D18 OF	

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- NOTES:**
1. ALL CONCRETE TO BE 40 MPa WITH 50mm COVER, EXCEPT 75mm COVER TO GROUND.
 2. REFER ALSO TO SPECIFICATION.
 3. REFER TO DRAWINGS D08 AND D09 FOR ADDITIONAL DETAILS.



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06/03/2023
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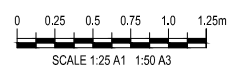


VESTED INFRASTRUCTURE - WASTEWATER
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ACCEPTED
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CITY WATER & WASTE
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Gunn, Jeremy

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BENCH MK.	-	DESIGNED	G. Aitken	GA	08.20
RL	-	DES. REVIEW	B. Scott	BS	08.20
SURVEY	-	DRAWN	STN	STN	04.12.20
SURVEY LB	-	DRW. CHECK	R. Simpson	RS	08.20
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DRAIN REF.	16066	FILE LOCATION	33641\ST-119.dwg		
SAP WBS	5222066	PRINTED ON	31/07/2021 1:58 pm		

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FOR TENDER	FOR CONSTRUCTION
DATE	DATE
SIGNED	SIGNED
04.12.20	06.07.21
B. Scott	B. Scott

CONSULTANT		PROJECT TITLE	
		HAYTON ROAD WASTEWATER RENEWAL	
		DRAWING TITLE	
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		D19 OF -	

ISSUED FOR CONSTRUCTION	B. SCOTT	06.07.21
AMENDMENTS	SIGNED	DATE

CONTRACT NUMBER	ORIGINAL SHEET SIZE	SCALES
08/09-	A1	AS SHOWN
CAD DRAWING FILE REF.		
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CP503525	D19 OF -	

ISSUED FOR CONSTRUCTION	B. SCOTT	06.07.21
AMENDMENTS	SIGNED	DATE