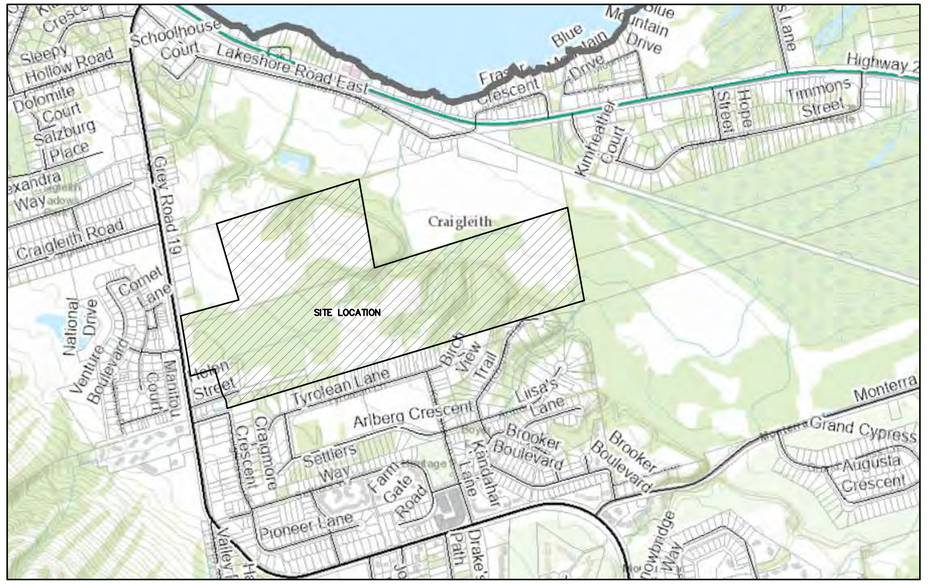
HOME FARM

TOWN OF THE BLUE MOUNTAINS

COUNTY OF GREY

DRAWING	TITLE
GEN1	GENERAL SERVICING PLAN
LG1	SITE GRADING PLAN SOUTHWEST
LG2	SITE GRADING PLAN SOUTHEAST
LG3	SITE GRADING PLAN NORTHWEST
LG4	SITE GRADING PLAN NORTHEAST
LG5	SITE GRADING PLAN EAST
PP1	PLAN & PROFILE HELEN STREET – (STA. 0+000 – 0+320)
PP2	PLAN & PROFILE HELEN STREET – (STA. 0+320 – 0+640)
PP3	PLAN & PROFILE HELEN STREET – (STA. 0+640 – 0+764)
PP4	PLAN & PROFILE STREET F – (STA. 3+000 – 3+350)
PP5	PLAN & PROFILE STREET G – (STA. 5+000 – 5+320)
PP6	PLAN & PROFILE STREET G – (STA. 5+320 – 5+486)
PP7	PLAN & PROFILE STREET E – (STA. 14+000–14+345)
PP8	PLAN & PROFILE LANE I – (STA, 4+000 – 4+280)
PP9	PLAN & PROFILE STREET A – (STA. 10+000–10+320)
PP10	PLAN & PROFILE STREET B – (STA. 0+000 – 0+320)
PP11	PLAN & PROFILE STREET B – (STA. 0+320 – 0+480)
PP12	PLAN & PROFILE STREET C – (STA. 7+000 – 7+240)
PP13	PLAN & PROFILE STREET C – (STA. 7+240 – 7+330)
PP14	PLAN & PROFILE LANE D – (STA. 6+000 – 6+320)
PP15	PLAN & PROFILE SANITARY FORCEMAIN – (STA. 0+000 – 0+199)
PP16	PLAN & PROFILE SPS INLET – (STA. 0+000 – 0+200)
PP17	PLAN & PROFILE LANE J – (STA. 12+000 – 12+089)
	PLAN & PROFILE LANE H – (STA. 13+000 – 13+133)
STM1	STORM AREA DRAINAGE PLAN
SAN1	SANITARY AREA DRAINAGE PLAN
WM1	WATER SERVICING PLAN
SWM1	SOUTH (SWMF#1) STORMWATER MANAGEMENT POND PLAN
SWM2A	SOUTH (SWMF#1) POND OUTLET (STA 0+000 – 0+240)
SWM2B	SOUTH (SWMF#1) EMERGENCY OUTLET (STA 2+000 – 2+120)
SWM3	SOUTH SWM POND DETAILS
SWM4	NORTH (SWMF#2) STORMWATER MANAGEMENT POND PLAN
SWM5	PLAN & PROFILE NORTH POND OUTLET (STA 0+000 – 0+115)
SWM6	NORTH SWM POND DETAILS
SWM7	BIORETENTION / DRY POND (SWMF#3) PLAN & DETAILS
P101	SEWAGE PUMPING STATION SITE PLAN
CHA1	PLAN & PROFILE WATERCOURSE 7 REALIGNMENT
CHA2	WATERCOURSE 7 REALIGNMENT DETAILS
WC1	PLAN & PROFILE HELEN STREET & WATERCOURSE 7 CROSSING
WC2	PLAN & PROFILE STREET A & WATERCOURSE 7 CROSSING
WC3	PLAN & PROFILE STREET E & WATERCOURSE 7 CROSSING
WC4	WATERCOURSE CROSSING DETAILS AND NOTES
SED1	EROSION & SEDIMENT CONTROL PLAN
SED2	ESC, EARTHWORKS, SITE COORDINATION & CONSTRUCTION ACCESS PLAN – STAGE 1
SED3	ESC, EARTHWORKS, SITE COORDINATION & CONSTRUCTION ACCESS PLAN – STAGE 2
ROAD1	GEOMETRIC ROAD DESIGN PLAN
PM1	PAVEMENT MARKING AND SIGNAGE PLAN
CUP1	COMPOSITE UTILITY PLAN
CUP2	COMPOSITE UTILITY PLAN
CUP3	COMPOSITE UTILITY PLAN
CUP4	COMPOSITE UTILITY PLAN
CUP5	COMPOSITE UTILITY PLAN
DT1	GENERAL NOTES/DETAIL PLAN
DT2	GENERAL NOTES/DETAIL PLAN
DT3	GENERAL NOTES/DETAIL PLAN



MUNICIPALITY

TOWN OF THE BLUE MOUNTAINS
32 MILL STREET
THE BLUE MOUNTAINS, ONTARIO, N0H 2P0

DEVELOPER

MACPHERSON BUILDERS (BLUE MOUNTAIN) LTD
5525 EGLINTON AVENUE WEST, SUITE 128
TORONTO, ONTARIO, M9C 5K5

DEVELOPER'S ENGINEER

CROZIER CONSULTING ENGINEERS
70 HURON STREET, SUITE 100
COLLINGWOOD, ON, L9Y 4L4
705-446-3510 T
705-446-3520 F
WWW.CFCROZIER.CA
INFO@CFCROZIER.CA

LANDSCAPE ARCHITECT

CROZIER CONSULTING ENGINEERS
70 HURON STREET, SUITE 100
COLLINGWOOD, ON, L9Y 4L4
705-446-3510 T
705-446-3520 F
WWW.CFCROZIER.CA
INFO@CFCROZIER.CA

MASTER LEGEND

EXISTING FEATURES (EX.)

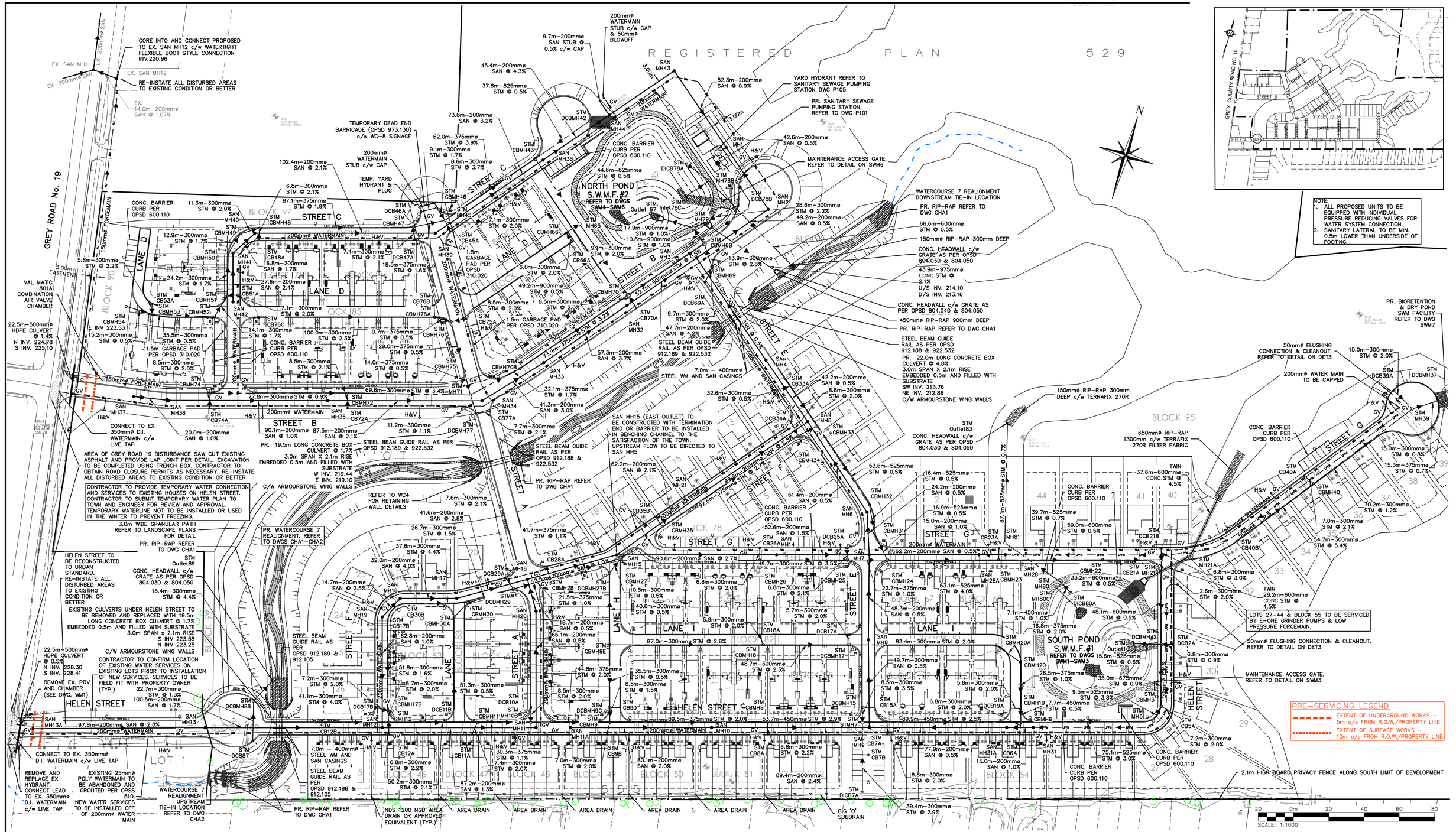
- EX. CONTOUR
- EX. GRADE
- EX. TREELINE
- EX. WATERCOURSE
- EX. DITCH
- EX. WATERMAIN
- EX. WATER SERVICE
- EX. FIRE HYDRANT & VALVE
- EX. SANITARY SEWER & MANHOLE
- EX. SANITARY FORCEMAIN
- EX. SANITARY SERVICE
- EX. STORM SEWER & MANHOLE
- EX. STORM CATCHBASIN
- EX. STORM DOUBLE CATCHBASIN
- EX. STORM CATCHBASIN MANHOLE
- EX. STORM DOUBLE CATCHBASIN MANHOLE
- EX. GAS MAIN
- EX. BELL LINE
- EX. BELL PEDESTAL
- EX. CABLE TELEVISION PEDESTAL
- EX. HYDRO POLE
- EX. LIGHT STANDARD
- EX. SIGN
- EX. BUILDING
- EX. BOREHOLE NUMBER & LOCATION
- EX. TEST PIT NUMBER & LOCATION

PROPOSED FEATURES (PR.)

- PR. PROPERTY LIMITS
- PR. ELEVATION
- PR. ELEVATION (MATCH EX. ELEVATION)
- PR. SWALE & SLOPE
- PR. DITCH DRAINAGE
- PR. WATERMAIN & VALVE
- PR. WATER SERVICE
- PR. STORM SERVICE
- PR. FIRE HYDRANT & VALVE
- PR. WATER VALVE CHAMBER
- PR. WATER QUALITY TESTING STATION
- PR. SANITARY SEWER & MANHOLE
- PR. SANITARY FORCEMAIN
- PR. LOW PRESSURE SANITARY FORCEMAIN
- PR. SANITARY SERVICE
- PR. SANITARY CATCHMENT
- CATCHMENT AREA ID
- POPULATION (2.15 p.p.u.)
- AREA (ha)
- PR. STORM SEWER & MANHOLE
- PR. CATCHBASIN
- PR. DOUBLE CATCHBASIN
- PR. CATCHBASIN MANHOLE
- PR. DOUBLE CATCHBASIN MANHOLE
- PR. STORM CATCHMENT
- CATCHMENT AREA ID
- RUNOFF COEFFICIENT
- DRAINAGE AREA (ha)
- PR. CURB CUT
- PR. CANADA POST COMMUNITY MAIL BOX
- PR. TRANSFORMER
- PR. STOP SIGN
- PR. NAME SIGN
- PR. NO PARKING SIGN
- PR. FENCE
- PR. BUILDING ENVELOPE
- PR. LIGHT DUTY SILT FENCE
- PR. HEAVY DUTY SILT FENCE
- PR. STRAW BALE CHECK FLOW
- PR. ROCK CHECK DAM
- PR. SLOPE (3:1 MAX.)
- PR. TOPSOIL STOCKPILE LOCATION
- PR. LIGHT STANDARD
- TREE PROTECTION ZONE

This Drawing is For
INFORMATION ONLY
This Drawing should not be redistributed beyond the intended recipient

PROJECT No.: 721-3464
6TH SUBMISSION



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TEMPORARY BENCHMARKS

SBM#1–ELEVATION: 227.78
CONCRETE PIN IN HYDRO POLE AT SOUTH EAST CORNER OF GREY ROAD No. 19 AND STREET B INTERSECTION.

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10	ISSUED FOR SEVENTH SUBMISSION	08/20/2024

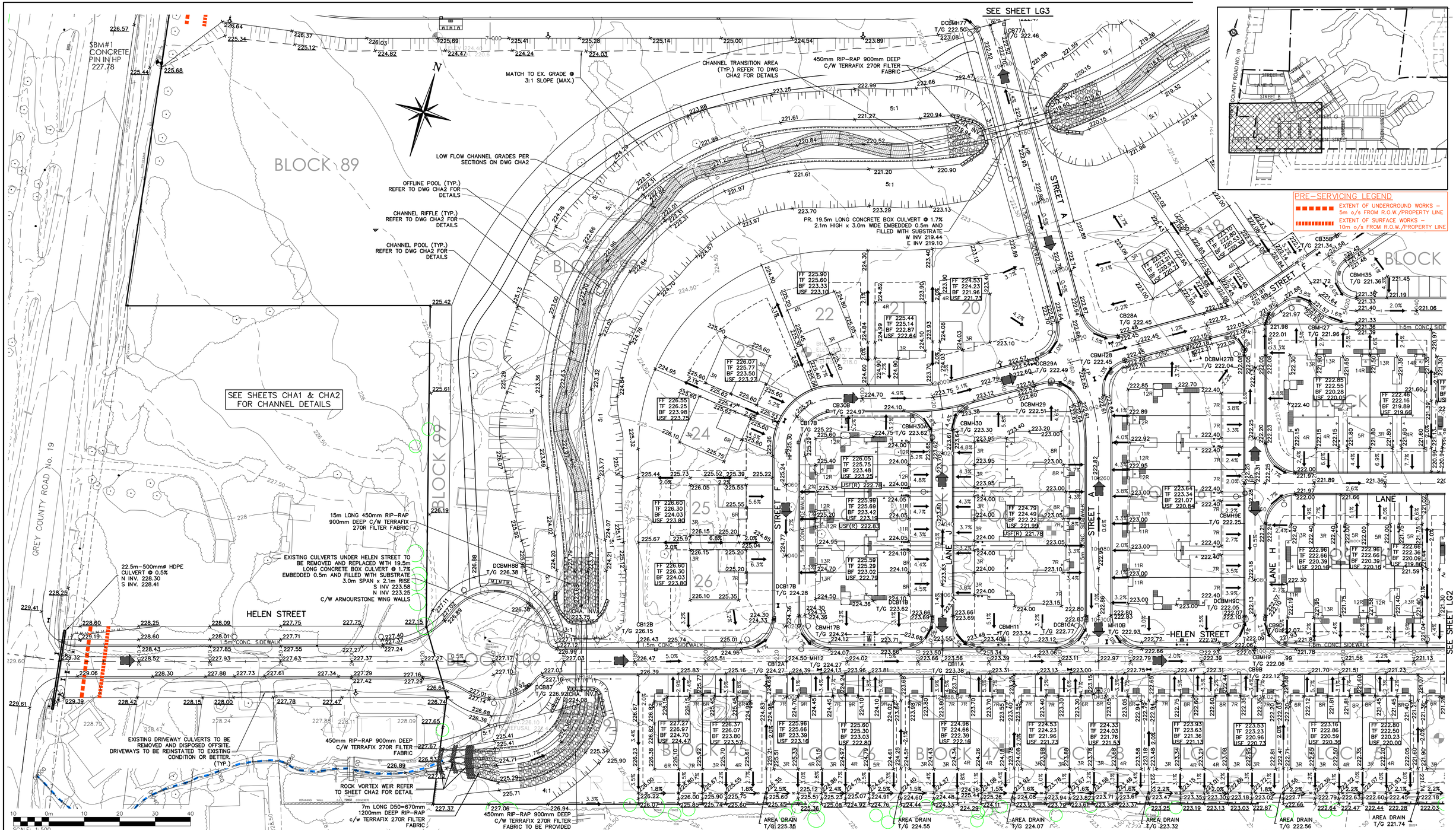
Engineer [redacted]
Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
GENERAL SERVICING PLAN

Town [redacted]

B.B.	B.B.	721-3464
1:1000	DEC 10, 2021	J.E./R.W.	GEN1



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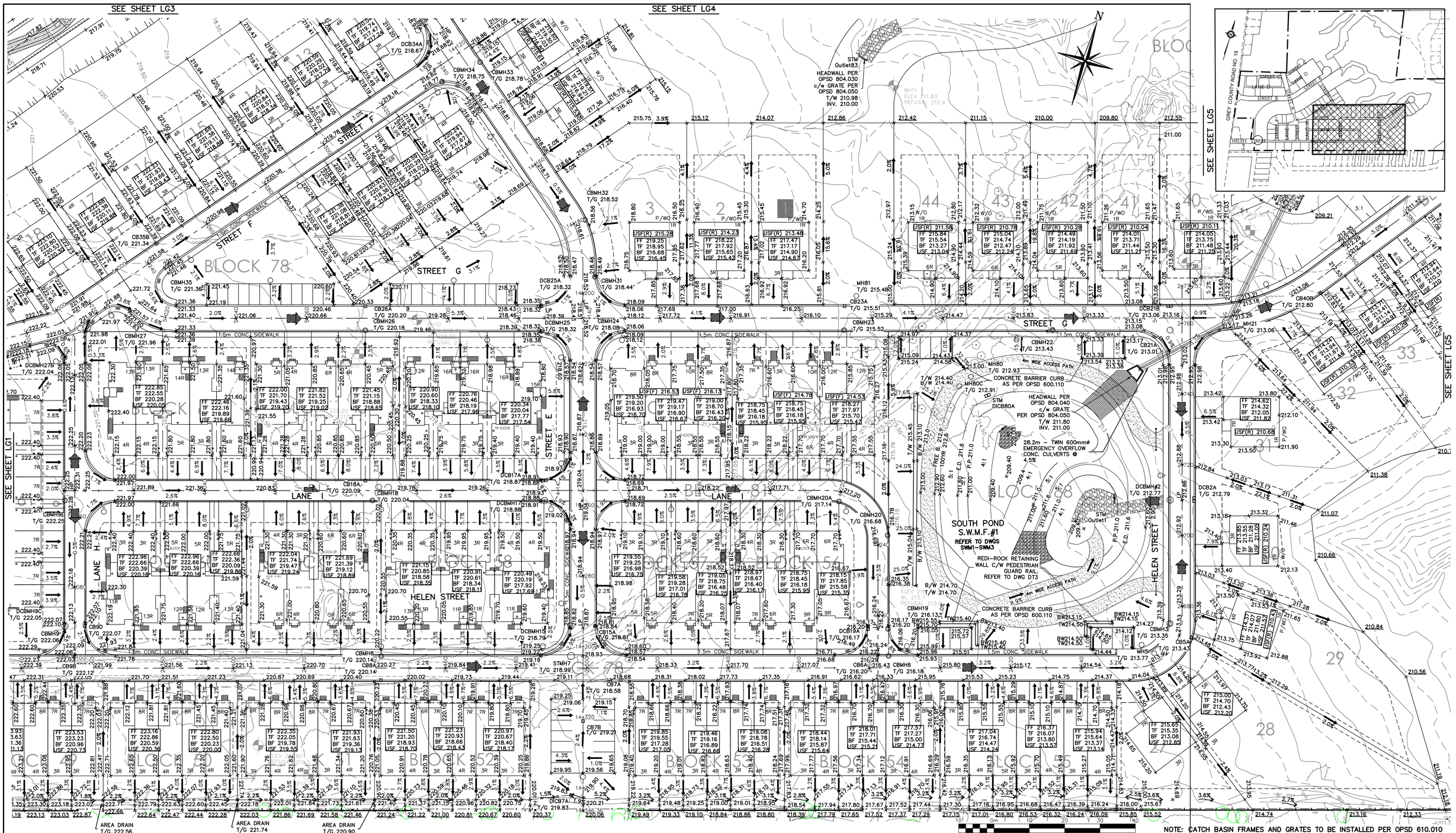
Engineer [redacted]
Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
OVERALL GRADING PLAN – SOUTHWEST

Town [redacted]

B.B.	B.B.	721–3464
1:500	DEC 10, 2021	J.E./R.W.	LG1



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Engineer [redacted]

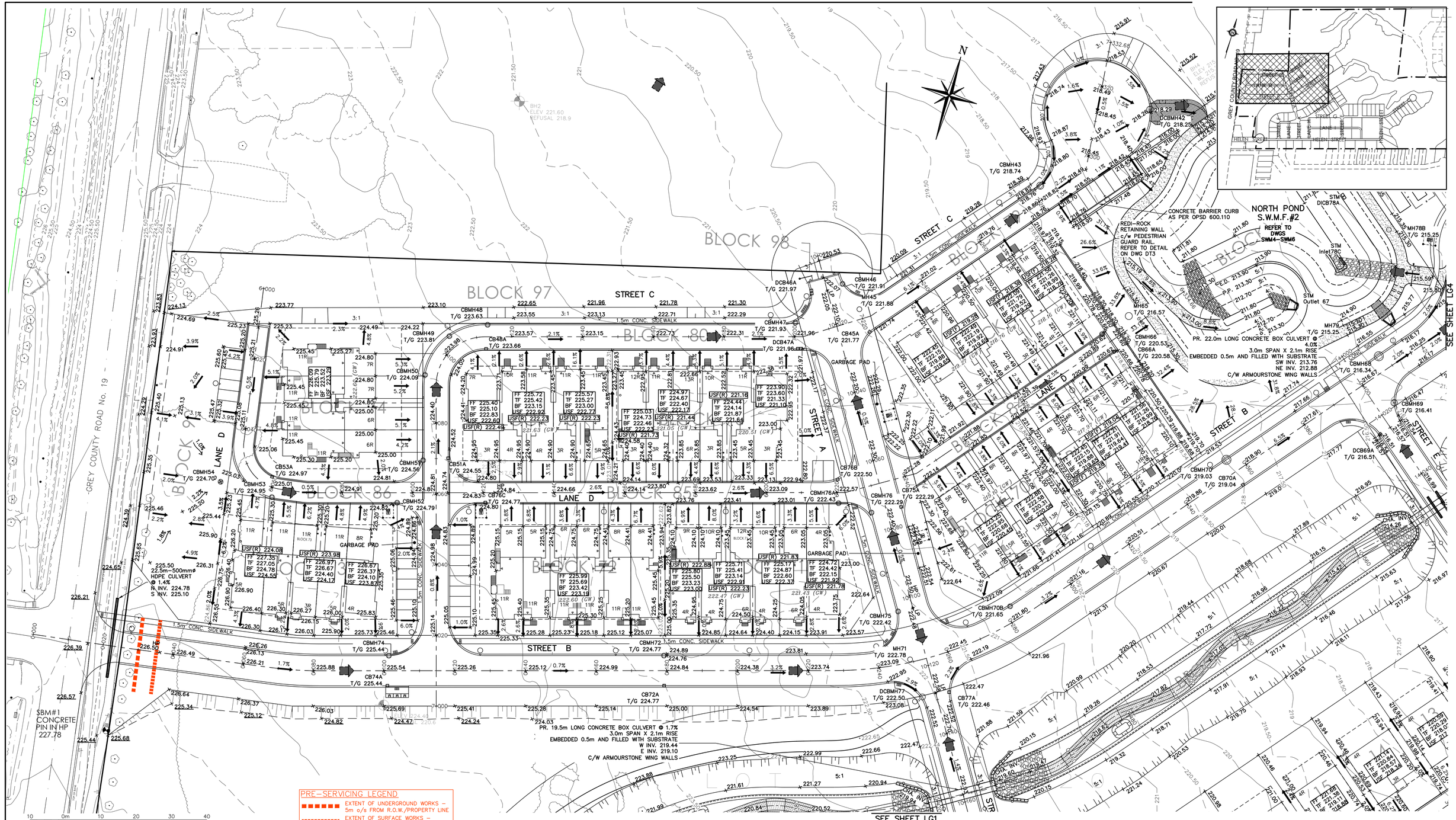
Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
OVERALL GRADING PLAN – SOUTHEAST

Town [redacted]

B.B.	B.B.	721-3464	
1:500	DEC 10, 2021	J.E./R.W.	LG2



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Engineer [redacted]

Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Town

Drawing
OVERALL GRADING PLAN – NORTHWEST

[redacted]

B.B.	B.B.	721-3464
1:500	DEC 10, 2021	J.E./R.W. LG3

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Engineer [redacted]

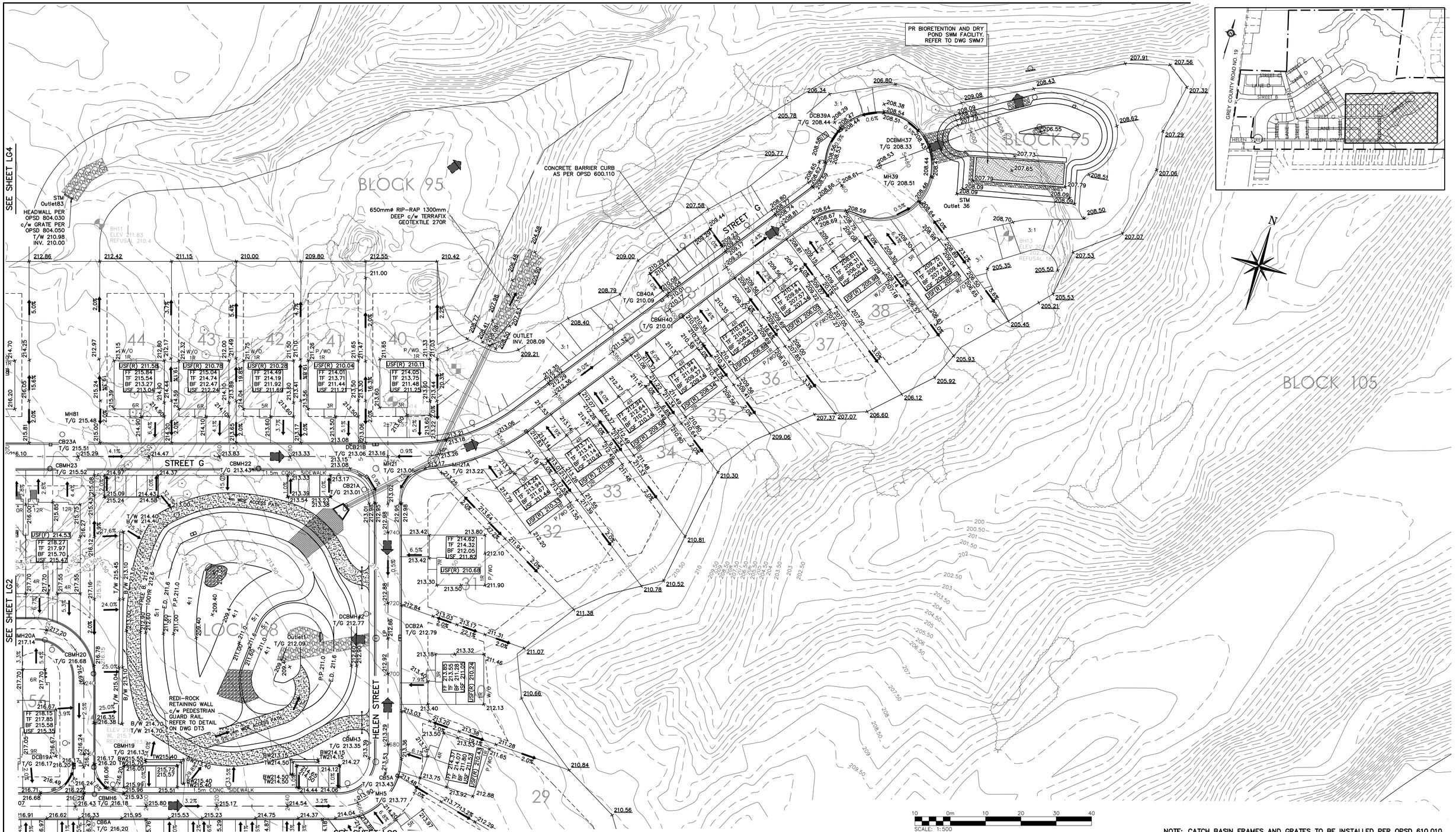
Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Town [redacted]

Drawing
OVERALL GRADING PLAN – NORTHEAST

B.B.	B.B.	721-3464
1:500	DEC 10, 2021	J.E./R.W.	LG4



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Engineer [redacted]

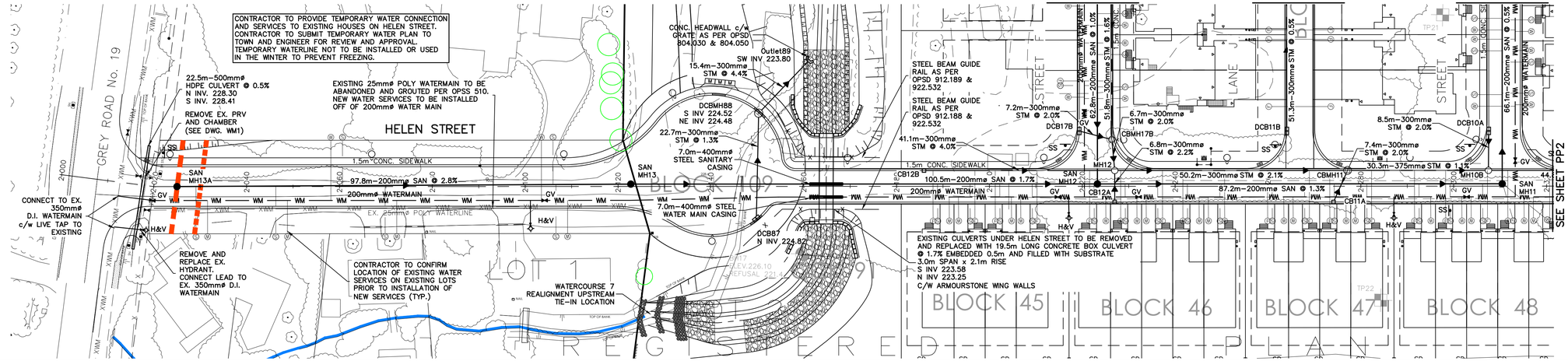
Engineer [redacted]

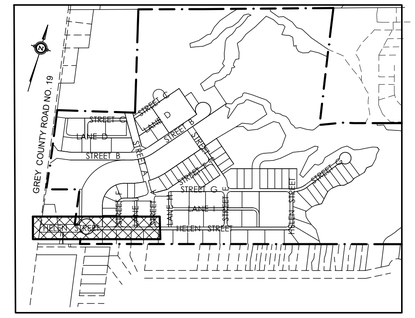
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
OVERALL GRADING PLAN – EAST

Town [redacted]

B.B.	B.B.		721-3464
1:500	DEC 10, 2021	J.E./R.W.	LG5

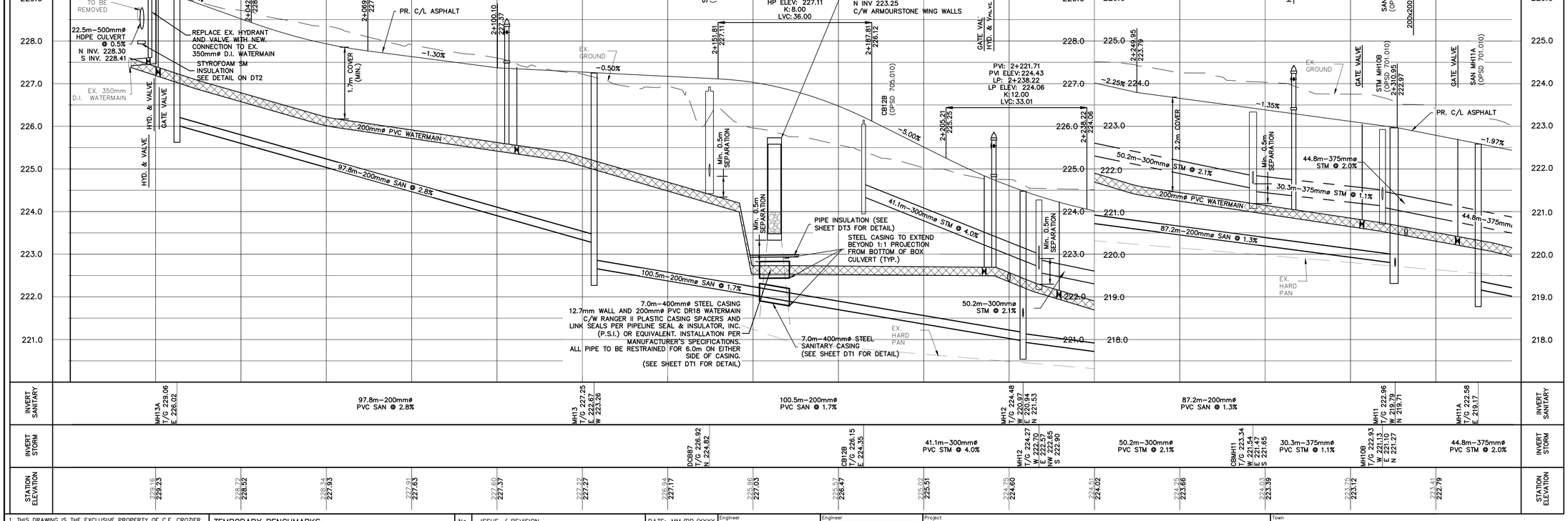




PRE–SERVICING LEGEND

EXTENT OF UNDERGROUND WORKS – 5m o/s FROM R.O.W./PROPERTY LINE

EXTENT OF SURFACE WORKS – 10m o/s FROM R.O.W./PROPERTY LINE



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Engineer [redacted]

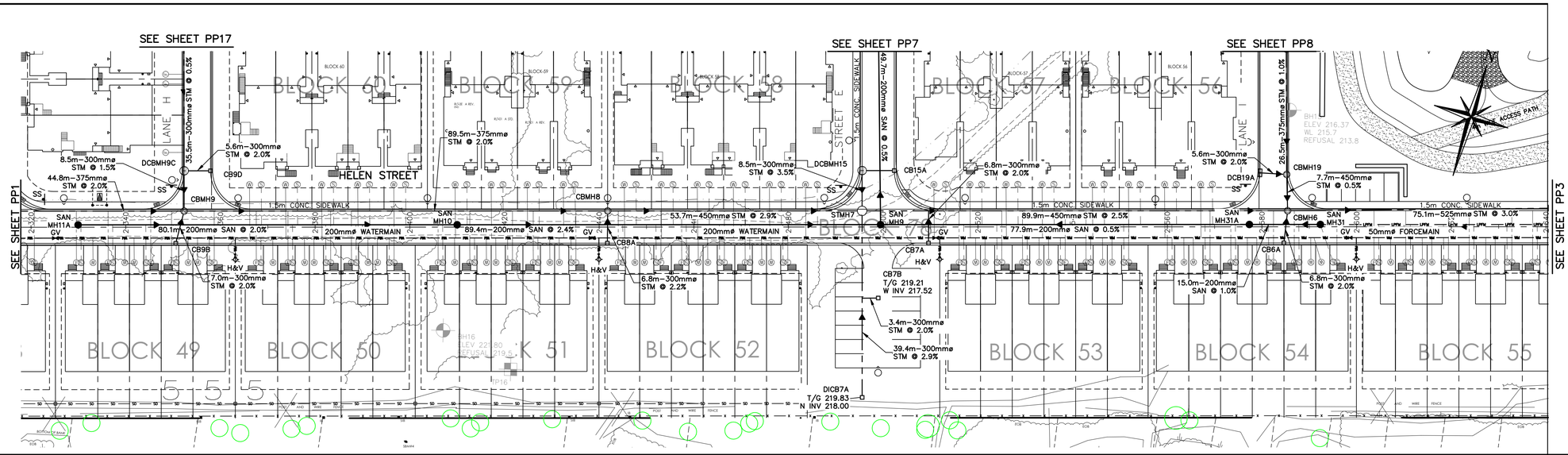
Engineer [redacted]

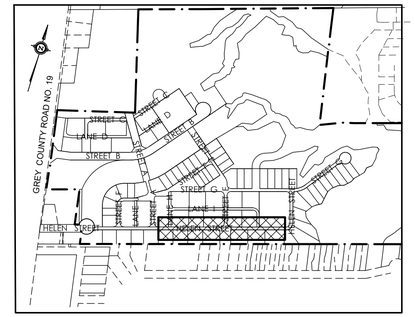
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

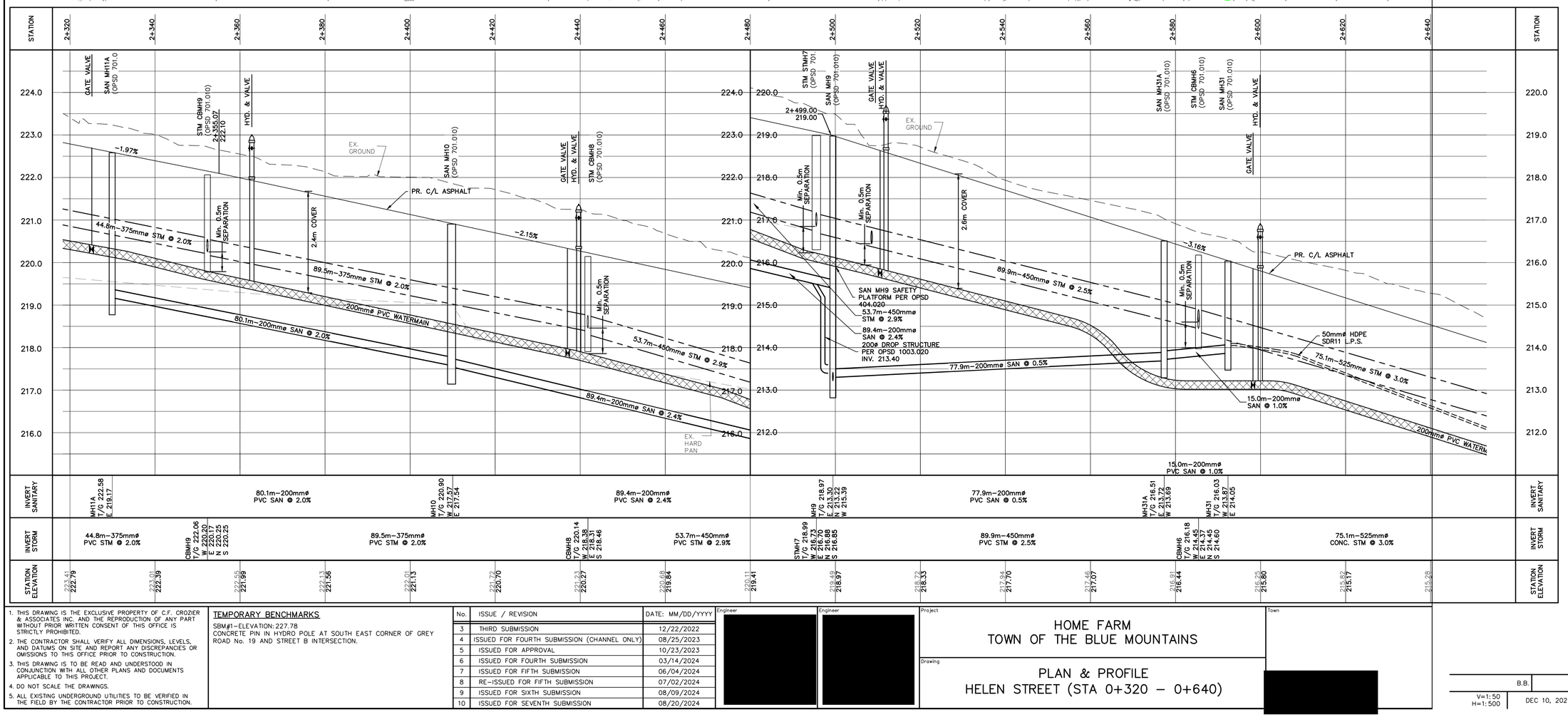
Drawing
PLAN & PROFILE
HELEN STREET (STA 0+000 – 0+320)

Town [redacted]

B.B.	B.B.		721–3464
V=1:50 H=1:500	DEC 10, 2021	J.E./R.W.	PP1







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TEMPORARY BENCHMARKS

SBM#1–ELEVATION: 227.78
CONCRETE PIN IN HYDRO POLE AT SOUTH EAST CORNER OF GREY ROAD No. 19 AND STREET B INTERSECTION.

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10	ISSUED FOR SEVENTH SUBMISSION	08/20/2024

Engineer [redacted]

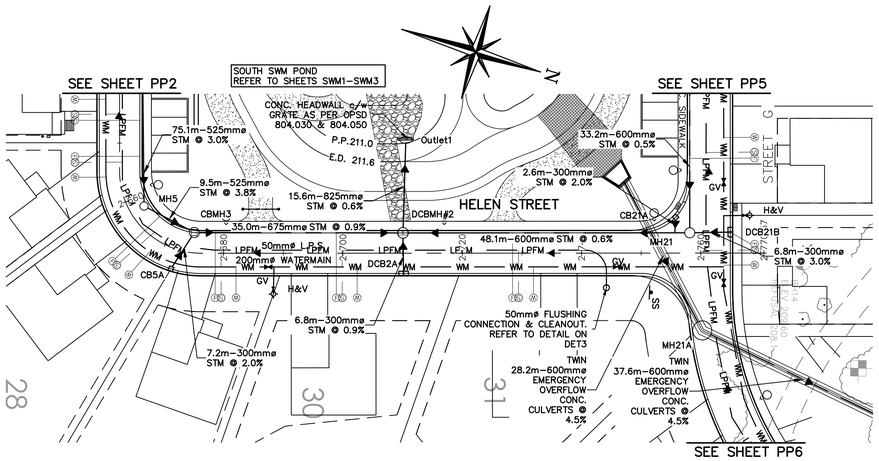
Engineer [redacted]

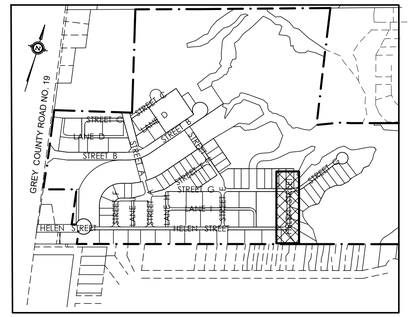
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

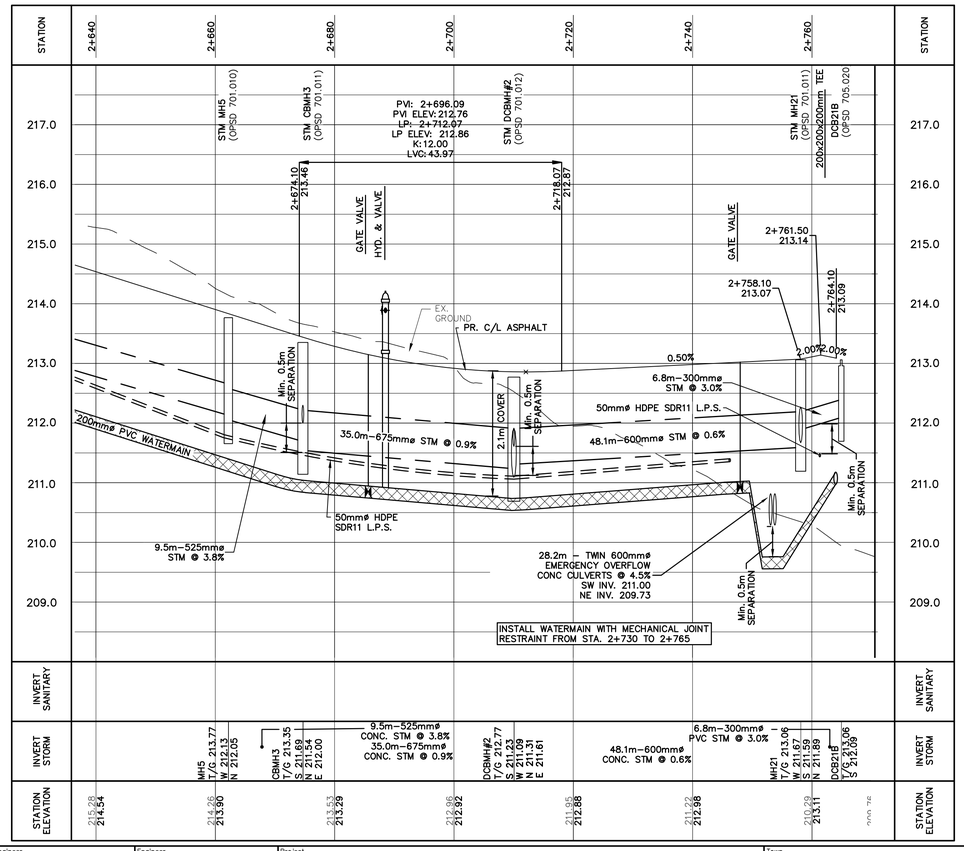
Drawing
PLAN & PROFILE
HELEN STREET (STA 0+320 – 0+640)

Town [redacted]

B.B.	B.B.	721–3464
V=1:50 H=1:500	DEC 10, 2021	J.E./R.W.	PP2







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Engineer [redacted]

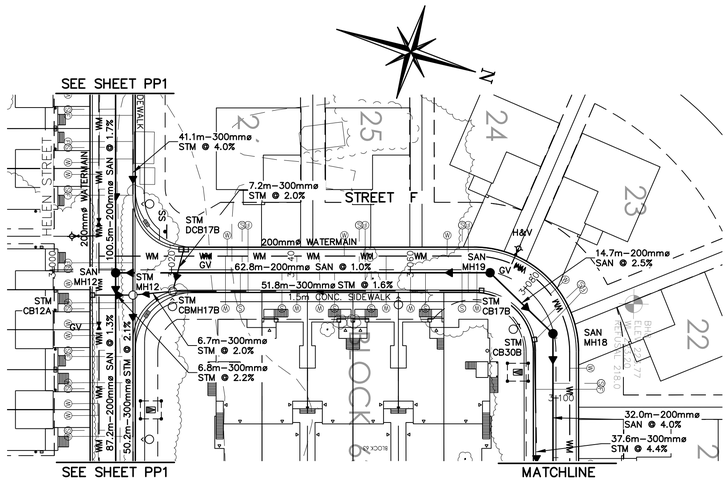
Engineer [redacted]

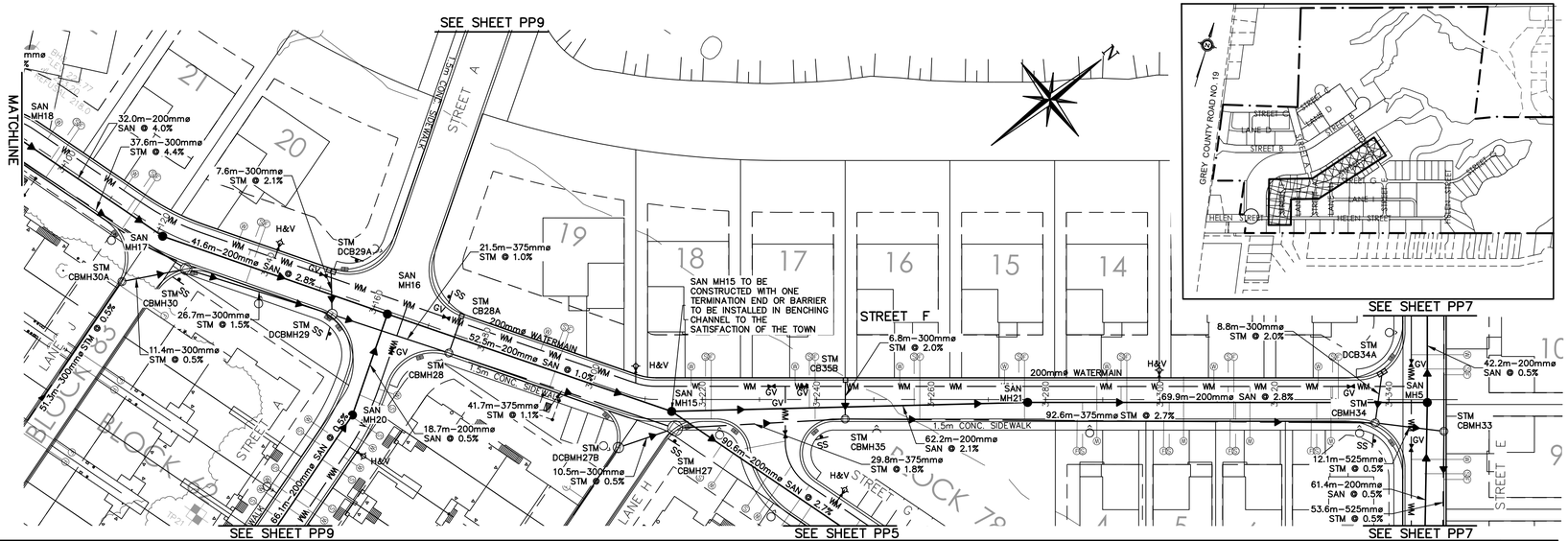
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

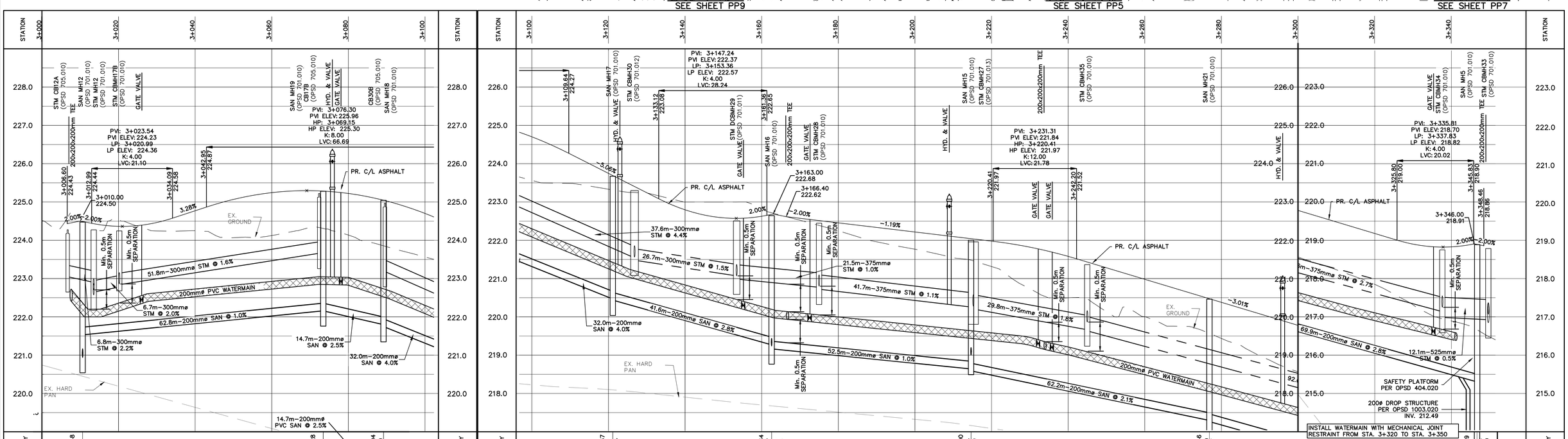
Drawing
PLAN & PROFILE
HELEN STREET (STA 0+640 – 0+764)

Town [redacted]

B.B.	B.B.	721–3464	
V=1: 50 H=1: 500	DEC 10, 2021	J.E./R.W.	PP3







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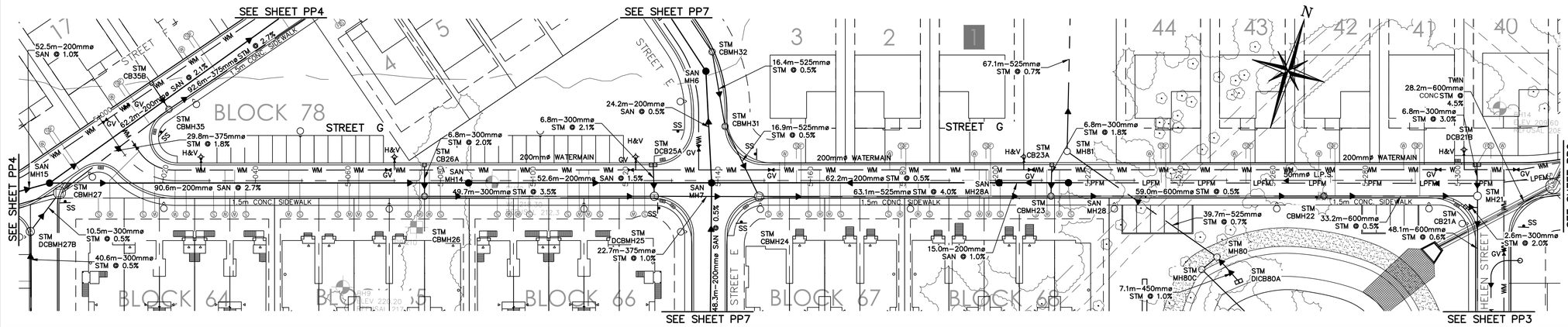
Engineer [redacted]
Engineer [redacted]

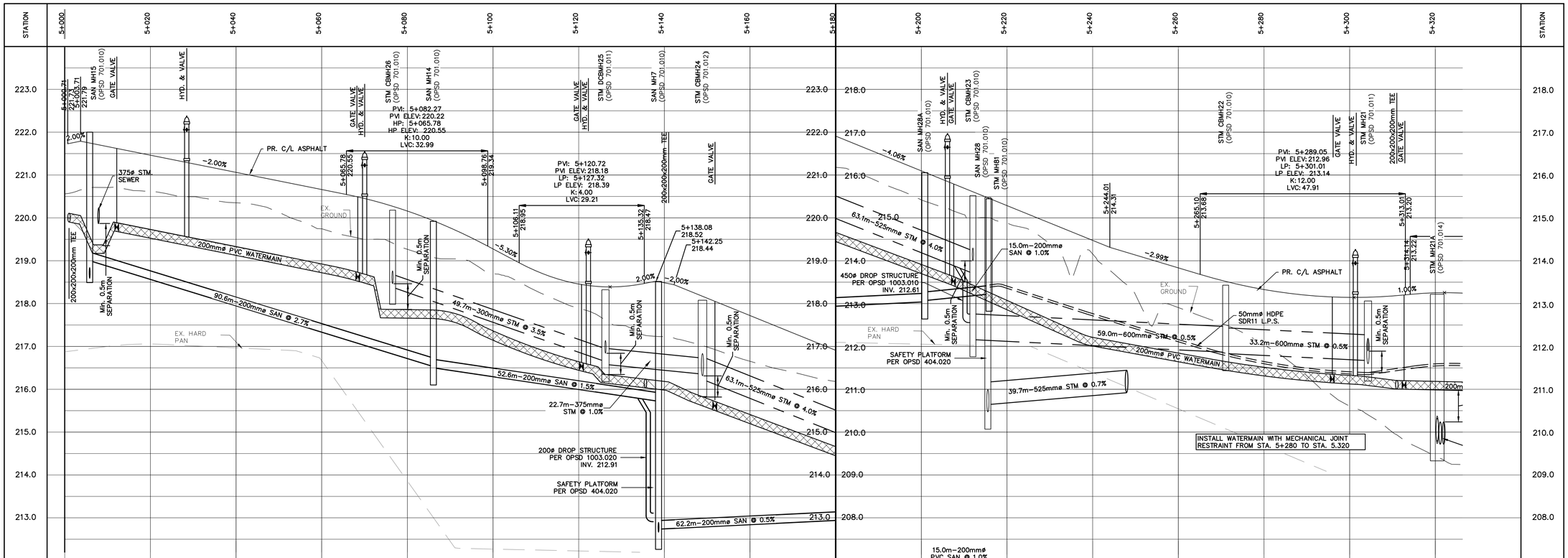
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
PLAN & PROFILE
STREET F (STA 3+000 – 3+350)

Town [redacted]

B.B.	B.B.	721–3464	
V=1:50 H=1:500	DEC 10, 2021	J.E./R.W.	PP4





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Engineer [redacted]

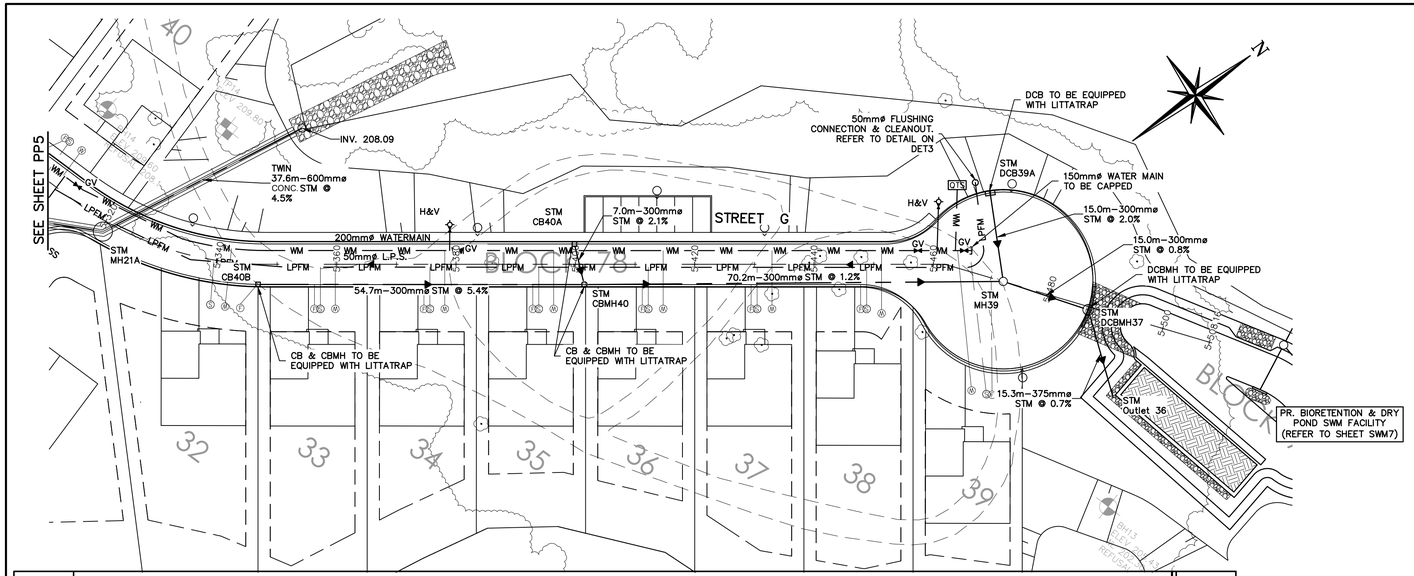
Engineer [redacted]

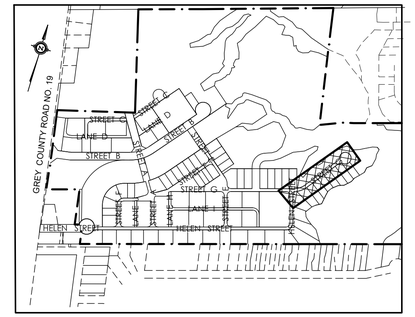
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

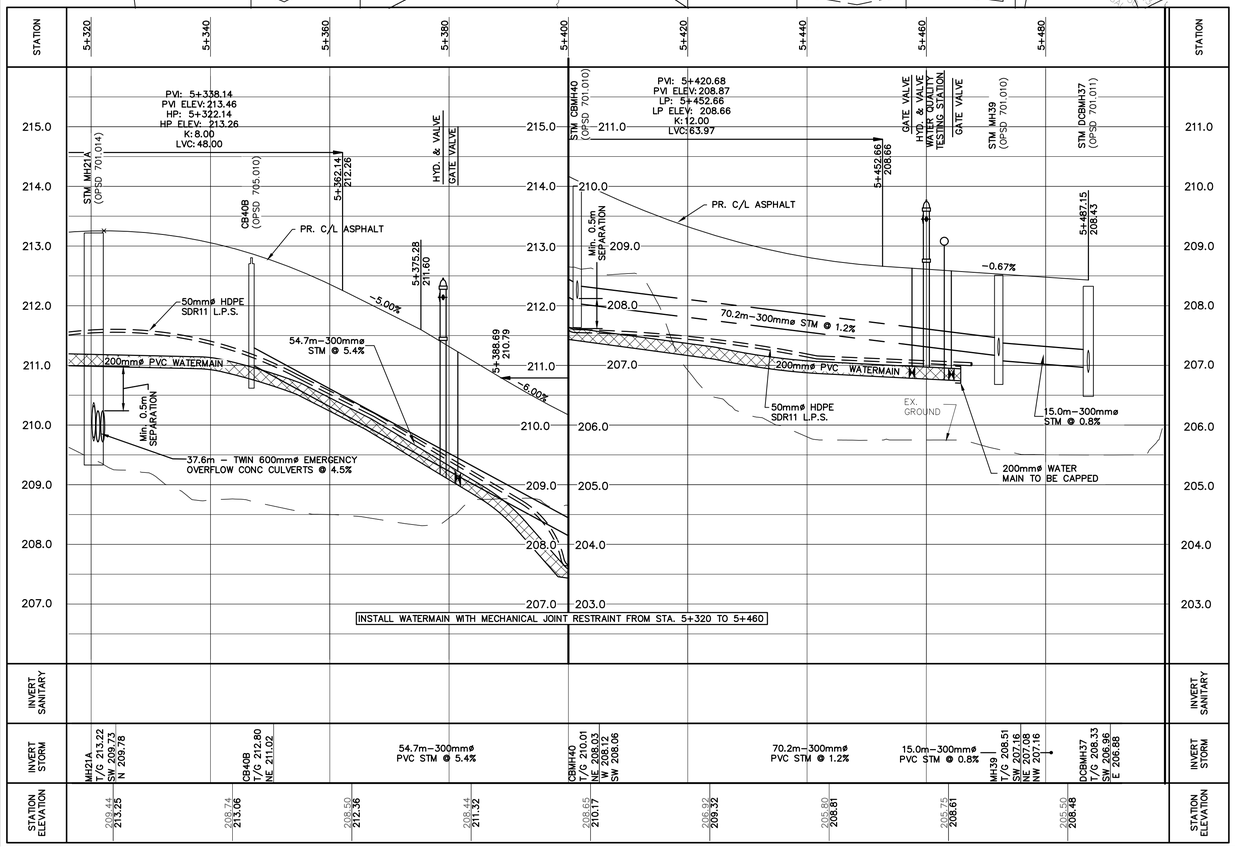
Drawing
PLAN & PROFILE
STREET G (STA 5+000 – 5+320)

Town [redacted]

B.B.	B.B.		721–3464
V=1:50 H=1:500	DEC 10, 2021	J.E./R.W.	PP5







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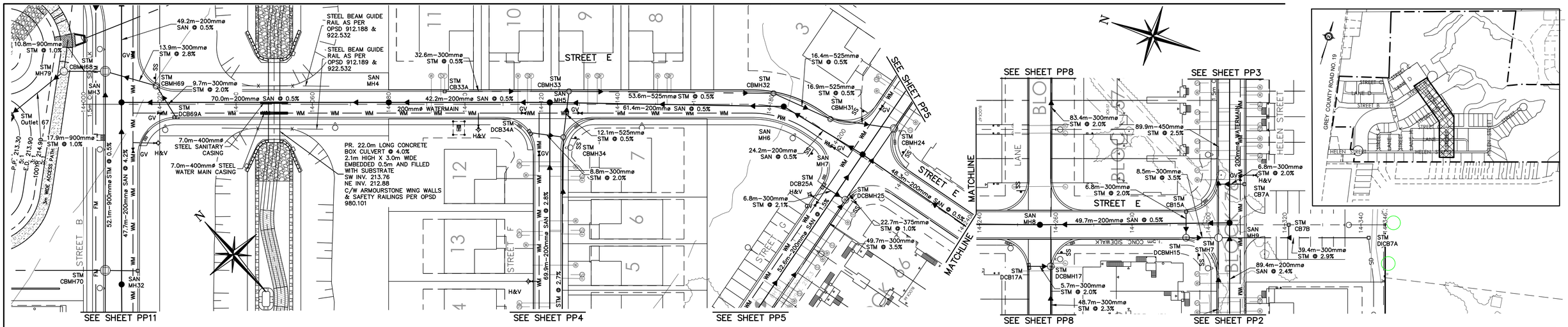
Engineer [redacted]
Engineer [redacted]

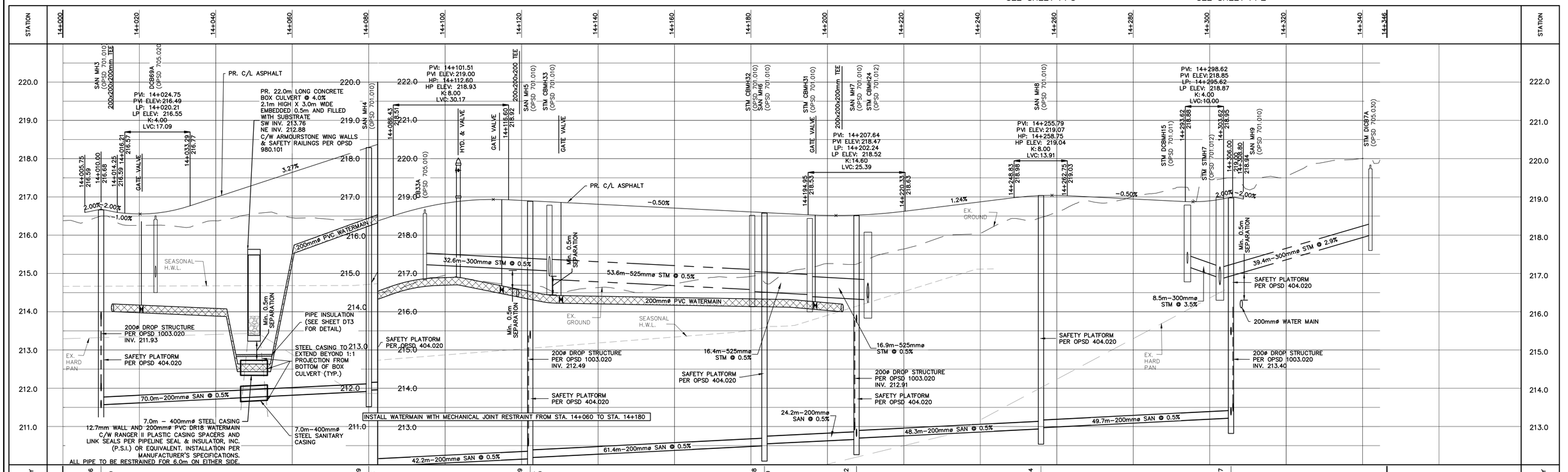
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
PLAN & PROFILE
STREET G (STA 5+320 – 5+486)

Town [redacted]

B.B.	B.B.		721-3464
V=1:50 H=1:500	DEC 10, 2021	J.E./R.W.	PP6





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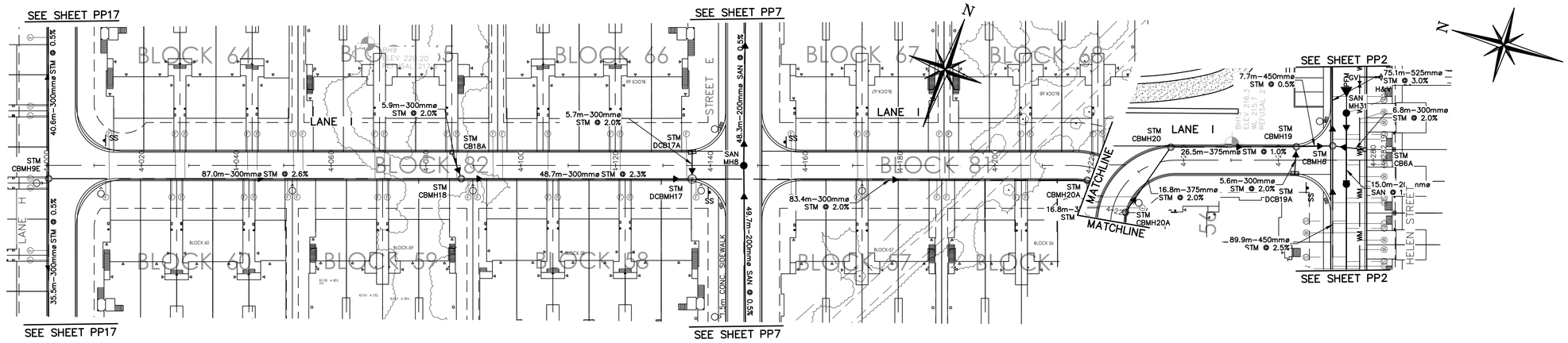
Engineer [redacted]
Engineer [redacted]

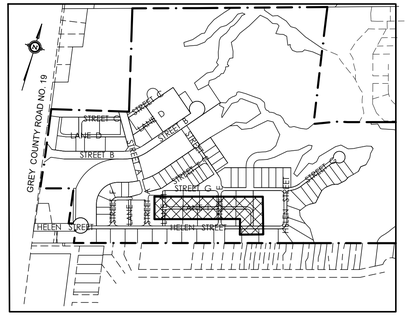
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

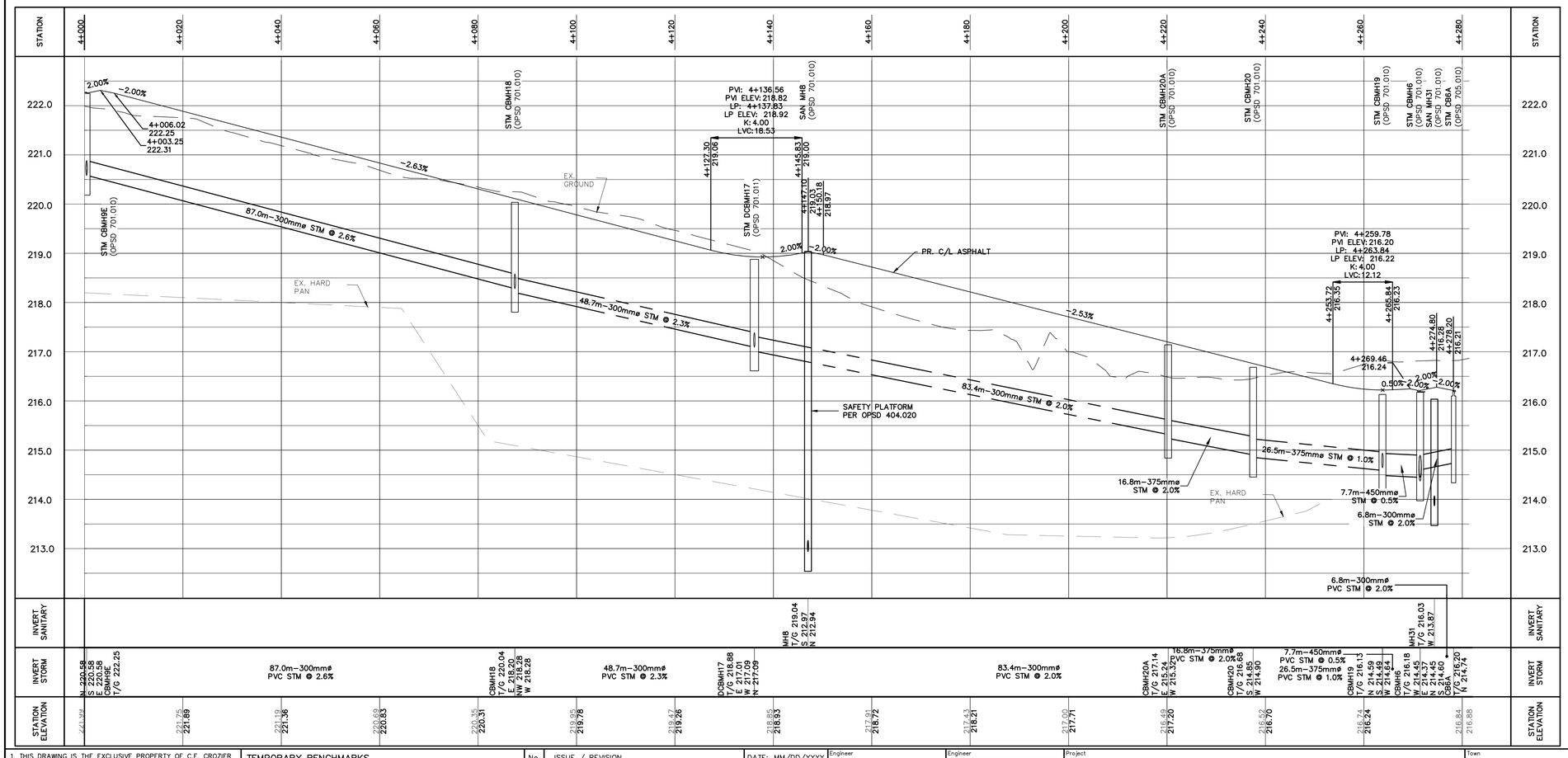
Drawing
PLAN & PROFILE
STREET E (STA 14+000 – 14+345)

Town [redacted]

B.B.	B.B.		721–3464
V=1:50 H=1:500	DEC 10, 2021	J.E./R.W.	PP7







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Engineer [redacted]

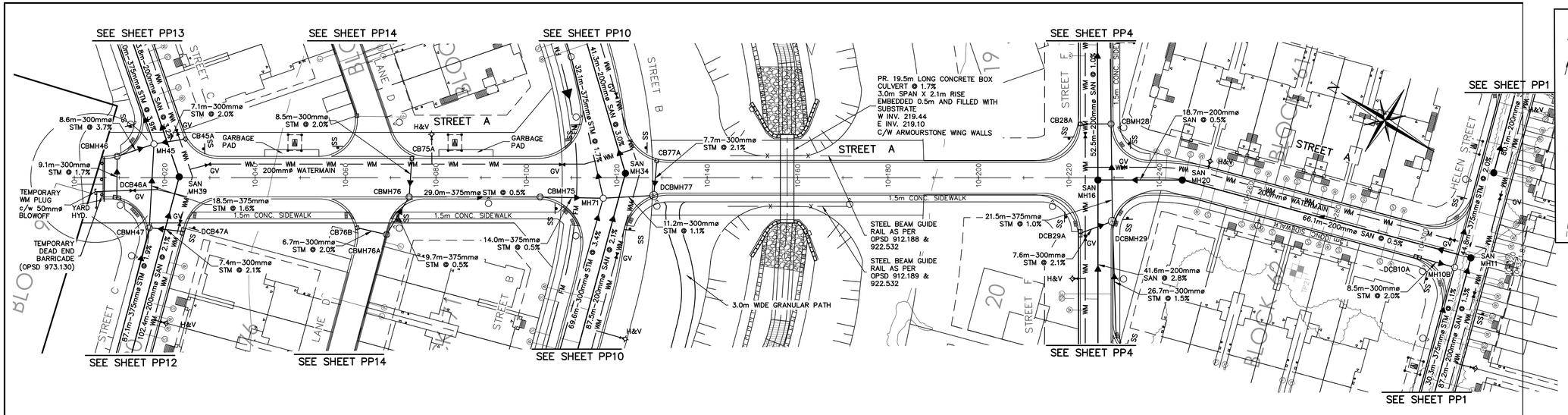
Engineer [redacted]

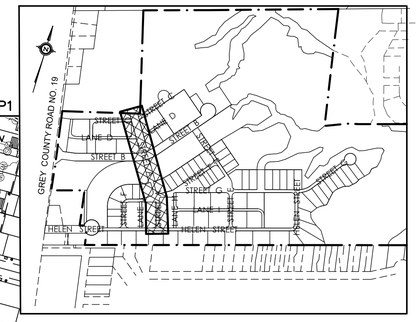
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

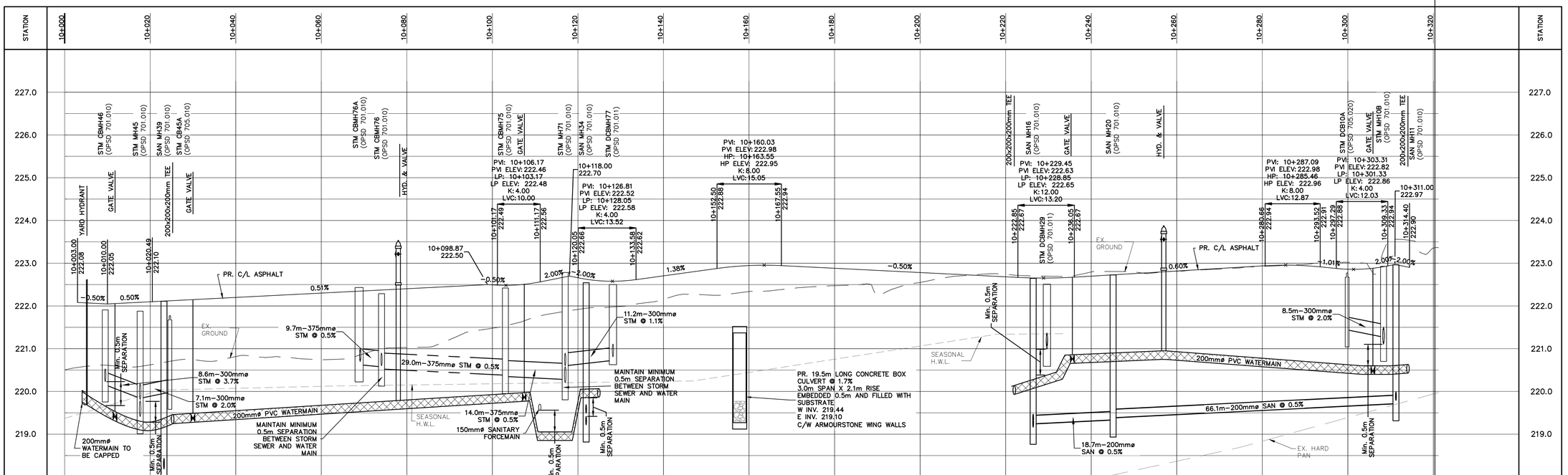
Drawing
PLAN & PROFILE
LANE I (STA 4+000 – 4+280)

Town [redacted]

B.B.	B.B.	721–3464
V=1: 50 H=1: 500	DEC 10, 2021	J.E./R.W. PP8







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Engineer [redacted]

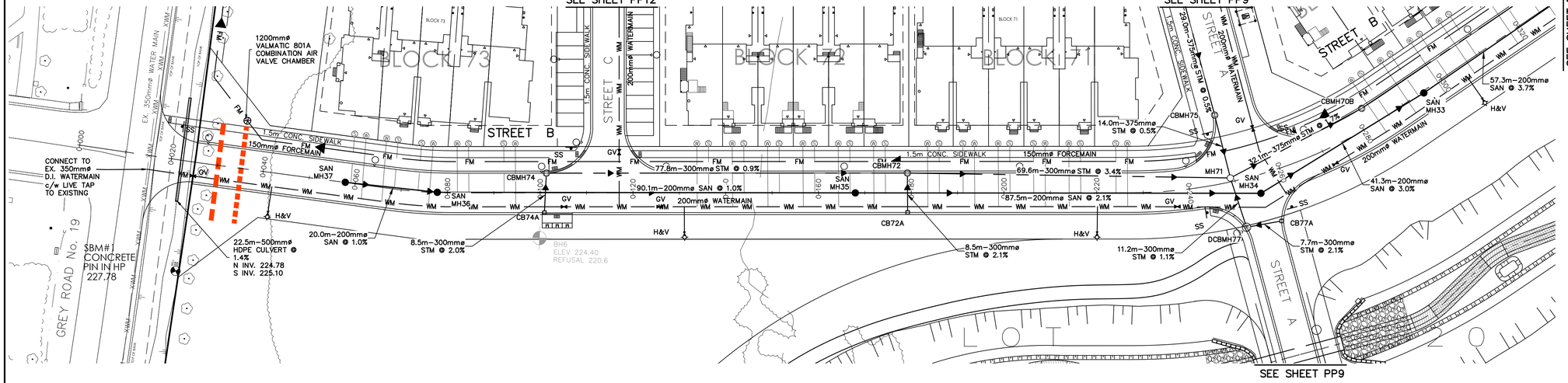
Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
PLAN & PROFILE
STREET A (STA 10+000 – 10+320)

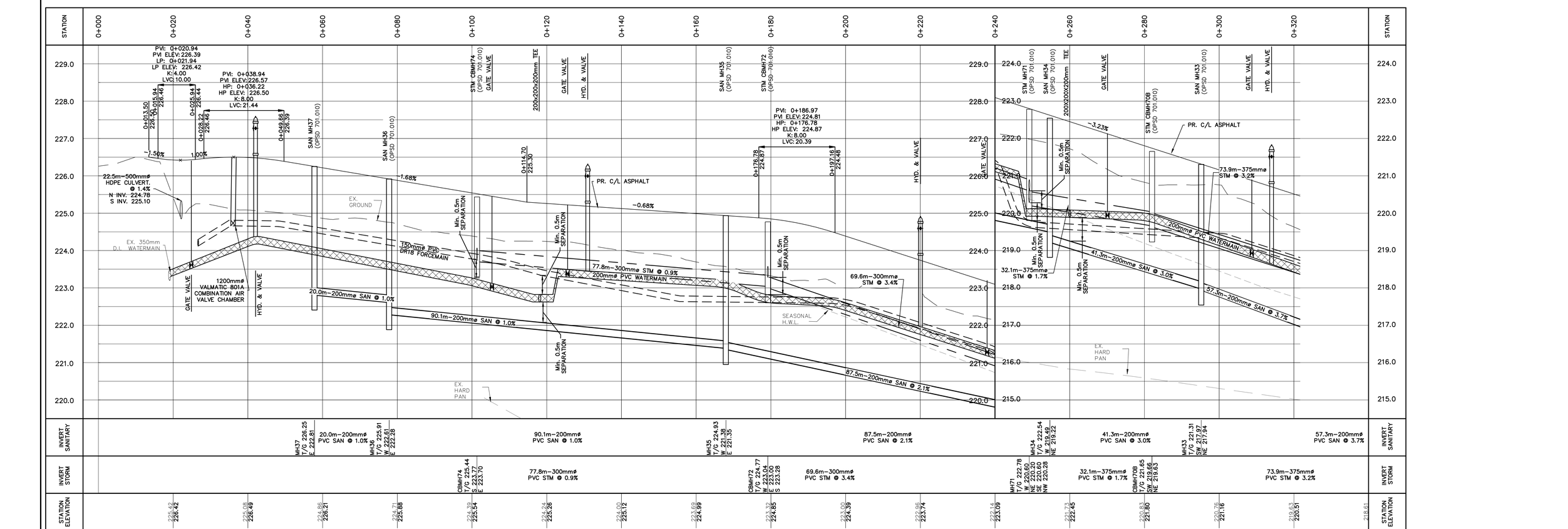
Town [redacted]

B.B.	B.B.		721–3464
V=1: 50 H=1: 500	DEC 10, 2021	J.E./R.W.	PP9



PRE–SERVICING LEGEND

- EXTENT OF UNDERGROUND WORKS – 5m o/s FROM R.O.W./PROPERTY LINE
- EXTENT OF SURFACE WORKS – 10m o/s FROM R.O.W./PROPERTY LINE



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Engineer [redacted]

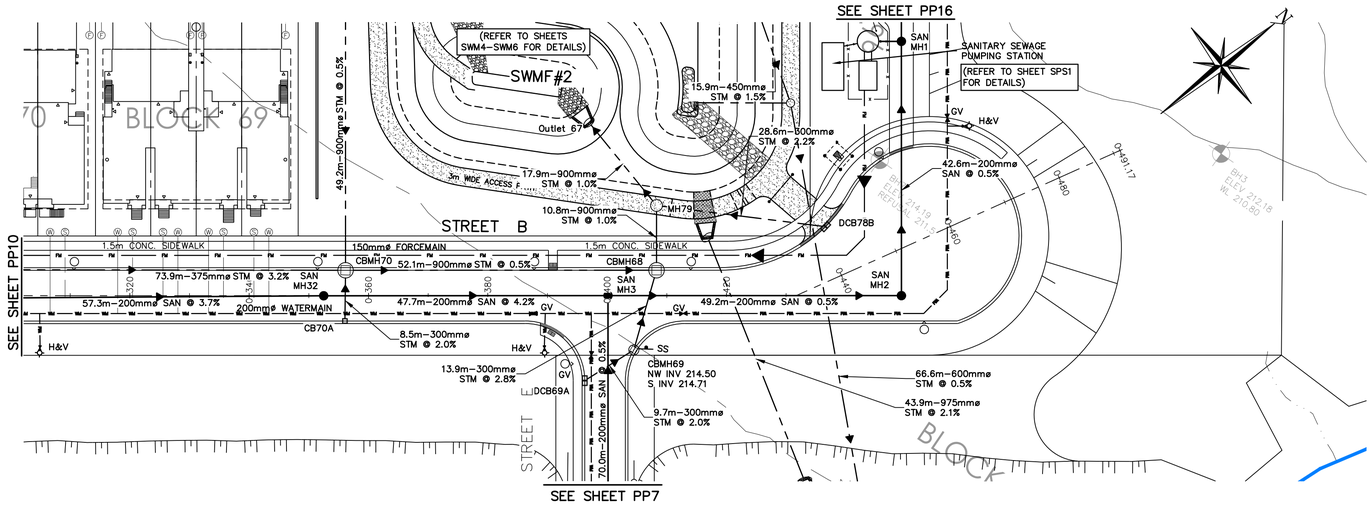
Engineer [redacted]

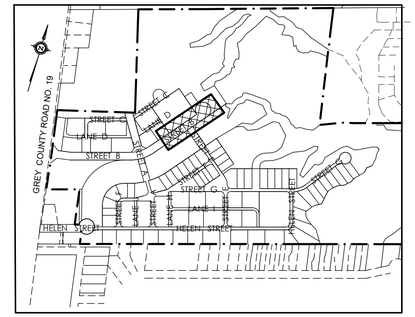
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

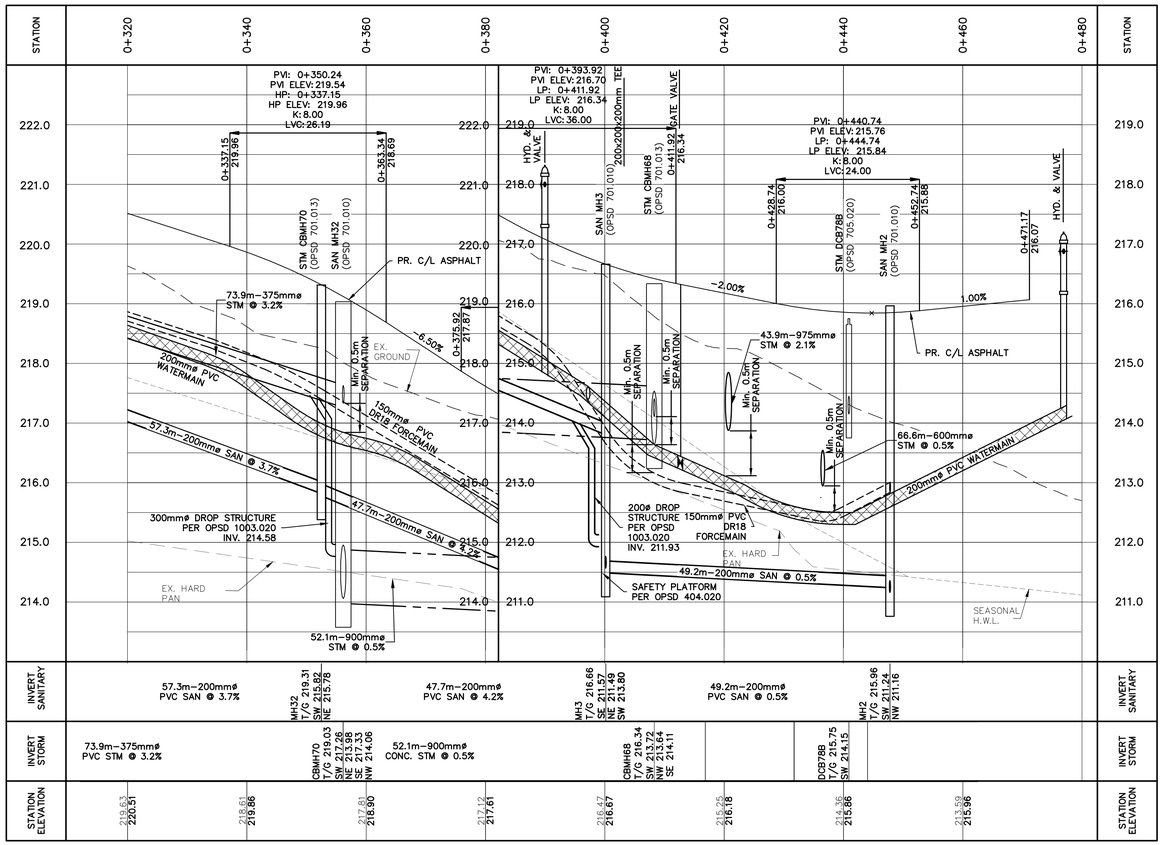
Drawing
PLAN & PROFILE
STREET B (STA 0+000 – 0+320)

Town [redacted]

B.B.	B.B.		721–3464
V=1:50 H=1:500	DEC 10, 2021	J.E./R.W.	PP10







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TEMPORARY BENCHMARKS

SBM#1–ELEVATION: 227.78
CONCRETE PIN IN HYDRO POLE AT SOUTH EAST CORNER OF GREY ROAD No. 19 AND STREET B INTERSECTION.

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10	ISSUED FOR SEVENTH SUBMISSION	08/20/2024

Engineer [redacted]

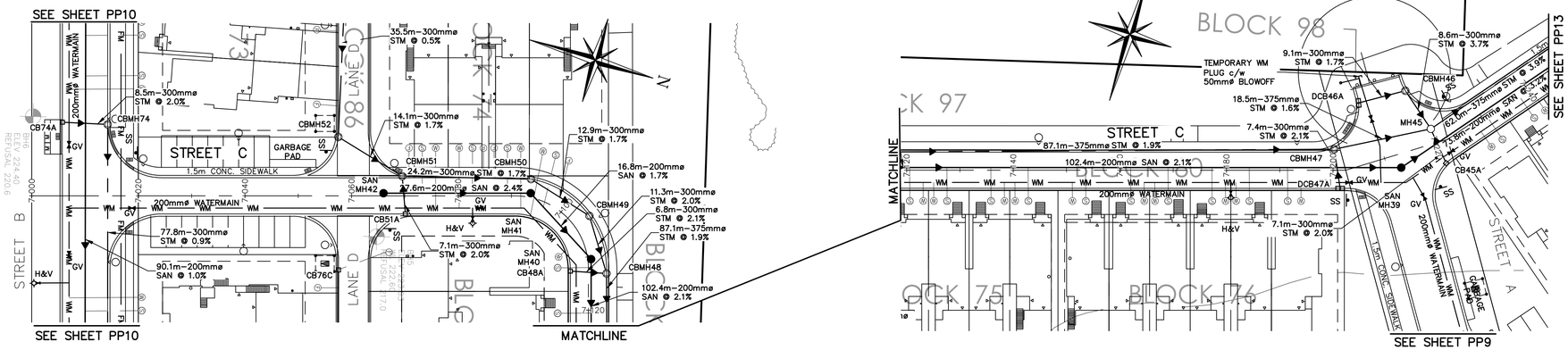
Engineer [redacted]

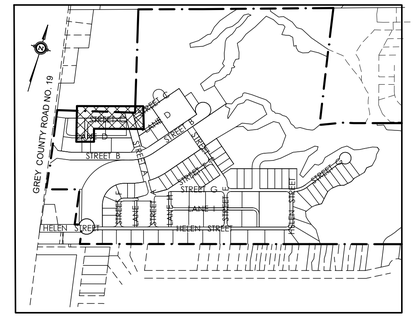
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

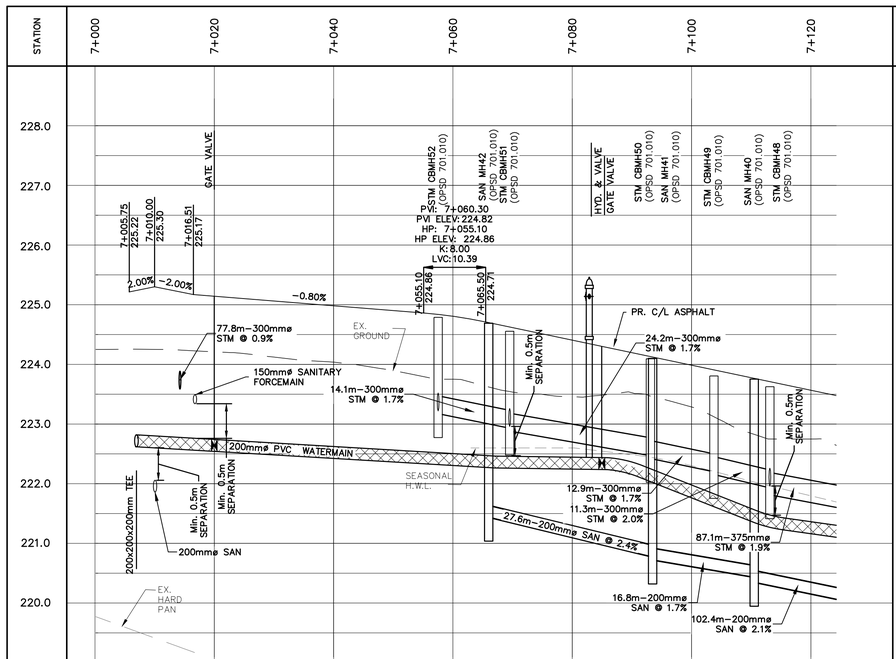
Town [redacted]

Drawing
PLAN & PROFILE
STREET B (STA 0+320 – 0+480)

B.B.	B.B.		721–3464
V=1:50 H=1:500	DEC 10, 2021	J.E./R.W.	PP11







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TEMPORARY BENCHMARKS

SBM#1–ELEVATION: 227.78
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10	ISSUED FOR SEVENTH SUBMISSION	08/20/2024

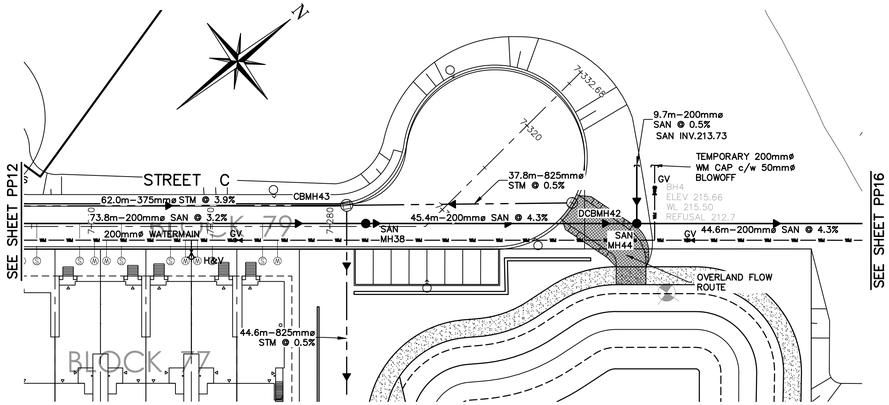
Engineer [redacted]
Engineer [redacted]

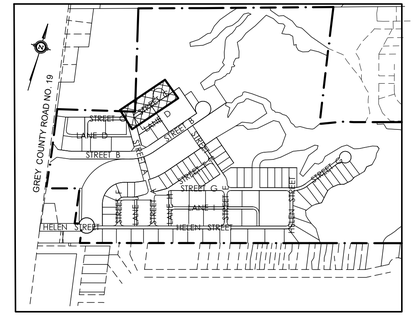
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

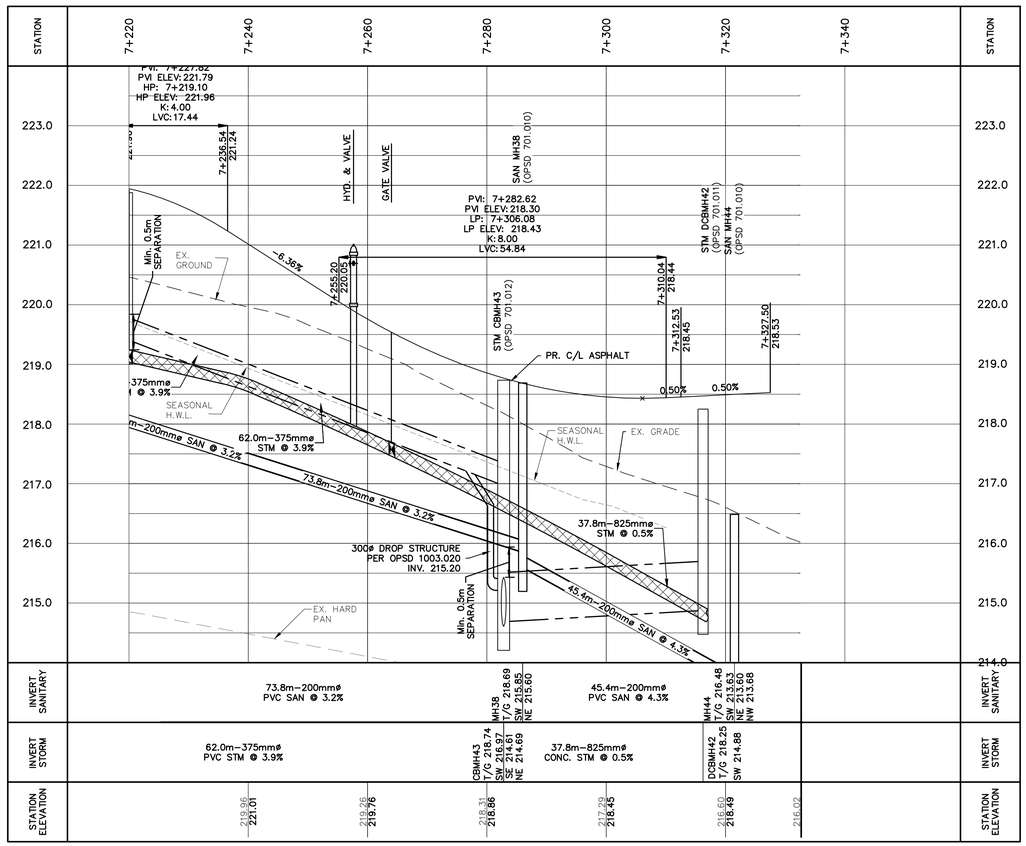
Drawing
STREET C (STA 7+000 – 7+240)

Town [redacted]

	B.B.	B.B.	721–3464
V=1:50 H=1:500	DEC 10, 2021	J.E./R.W.	PP12







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TEMPORARY BENCHMARKS

SBM#1–ELEVATION: 227.78
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Engineer [redacted]

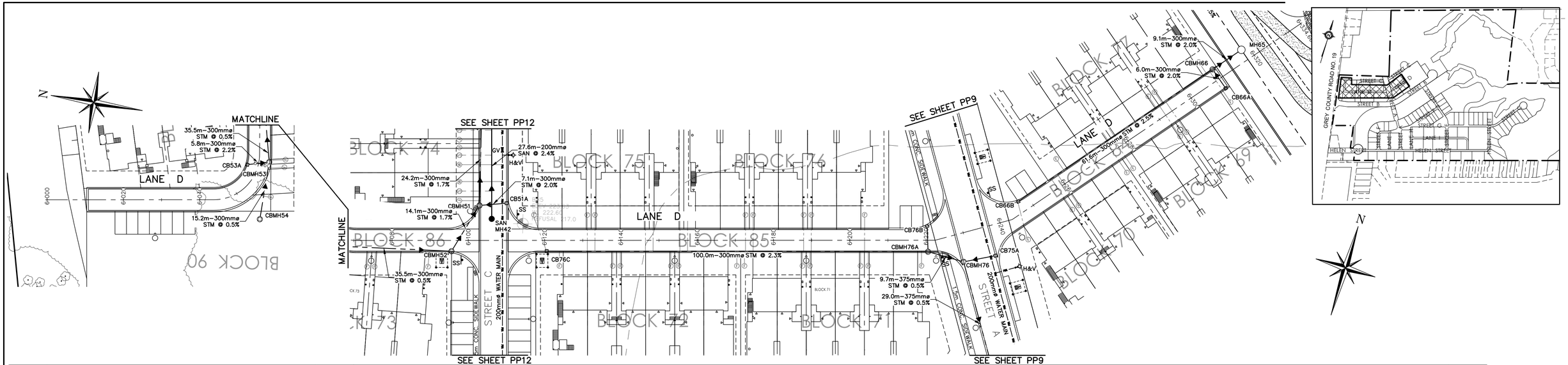
Engineer [redacted]

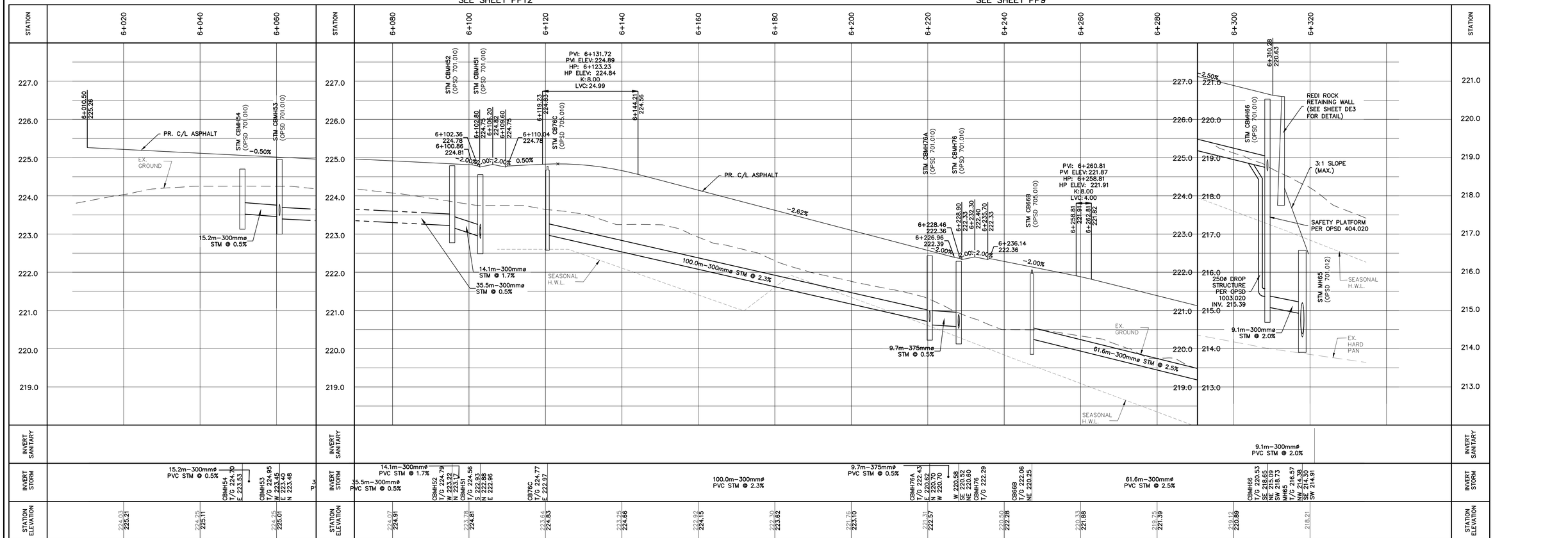
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
PLAN & PROFILE
STREET C (STA 7+240 – 7+330)

Town [redacted]

B.B.	B.B.		721–3464
V=1:50 H=1:500	DEC 10, 2021	J.E./R.W.	PP13





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TEMPORARY BENCHMARKS

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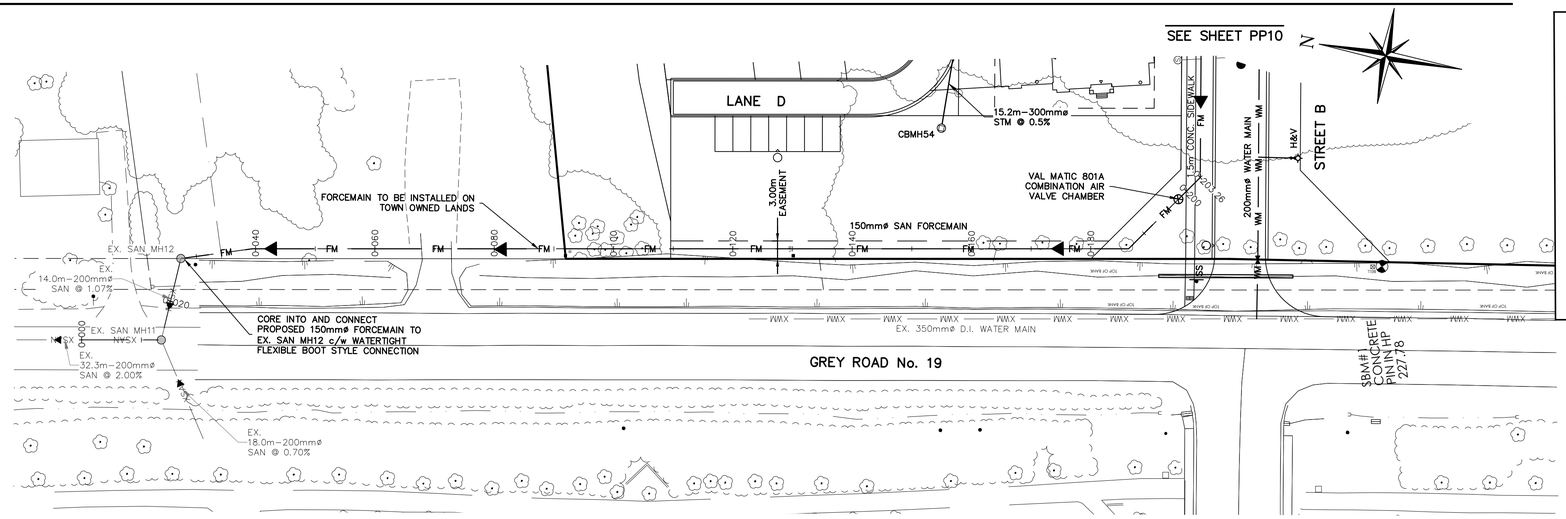
Engineer [redacted]
Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
PLAN & PROFILE
LANE D (STA 6+000 – 6+320)

Town [redacted]

B.B. | B.B. | 721–3464
V=1:50 H=1:500 | DEC 10, 2021 | J.E./R.W. | PP14



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TEMPORARY BENCHMARKS

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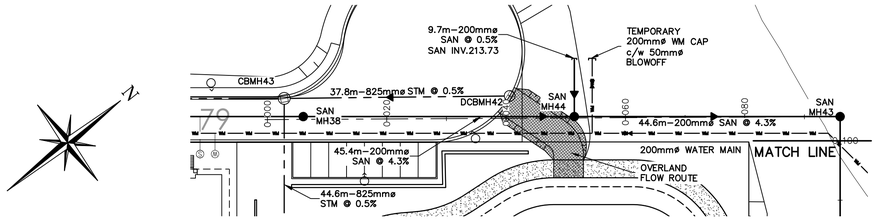
Engineer [redacted]
Engineer [redacted]

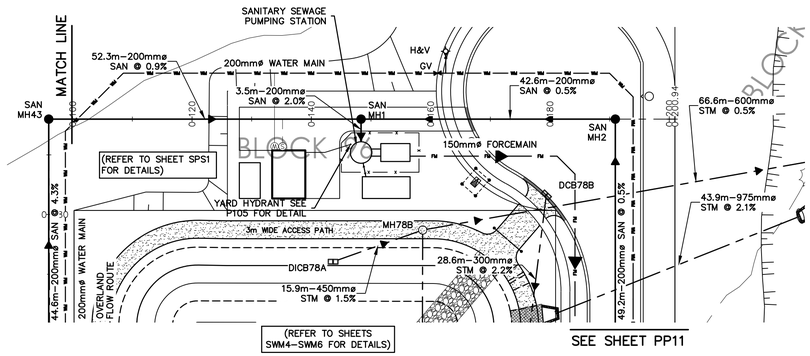
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

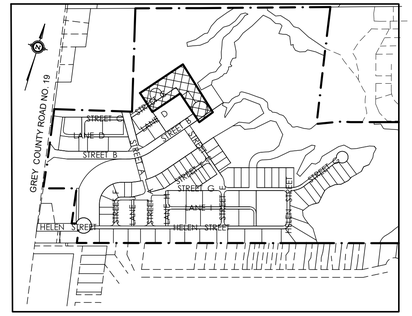
Drawing
PLAN & PROFILE
SANITARY FORCEMAIN (STA 0+000 – 0+199)

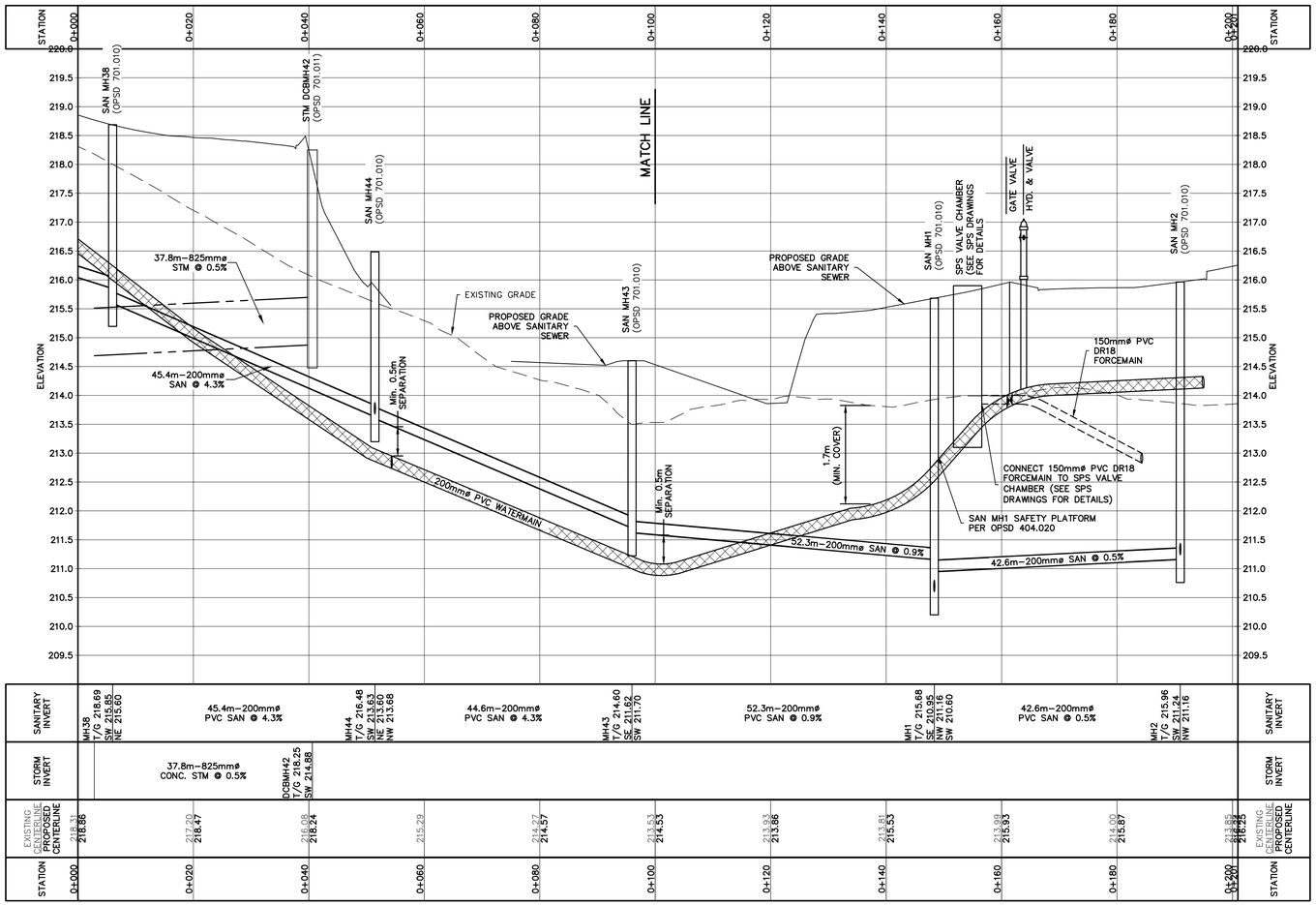
Town [redacted]

	B.B.	B.B.	721–3464
V=1:50 H=1:500	DEC 10, 2021	J.E./R.W.	PP15









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Engineer [redacted]

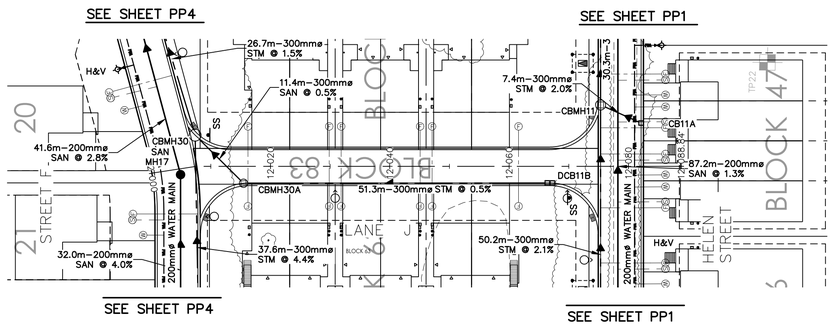
Engineer [redacted]

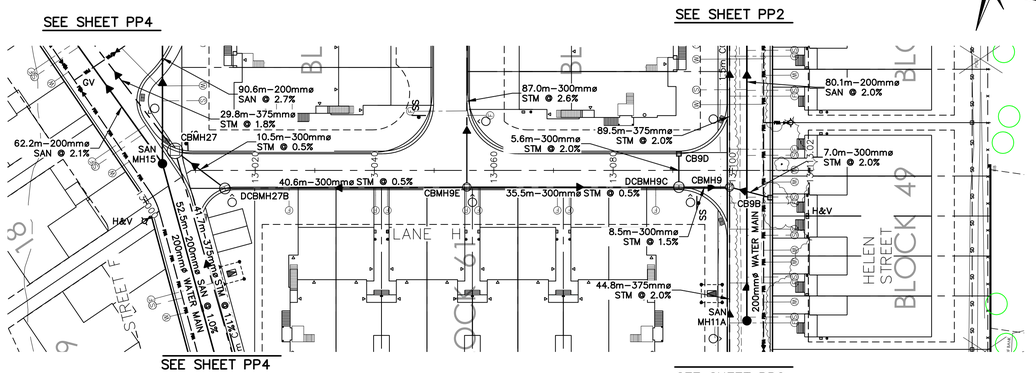
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

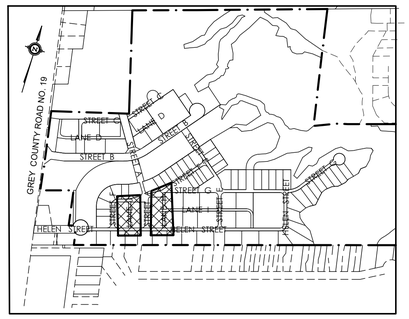
Drawing
PLAN & PROFILE
SPS INLET (STA 0+000 – 0+200)

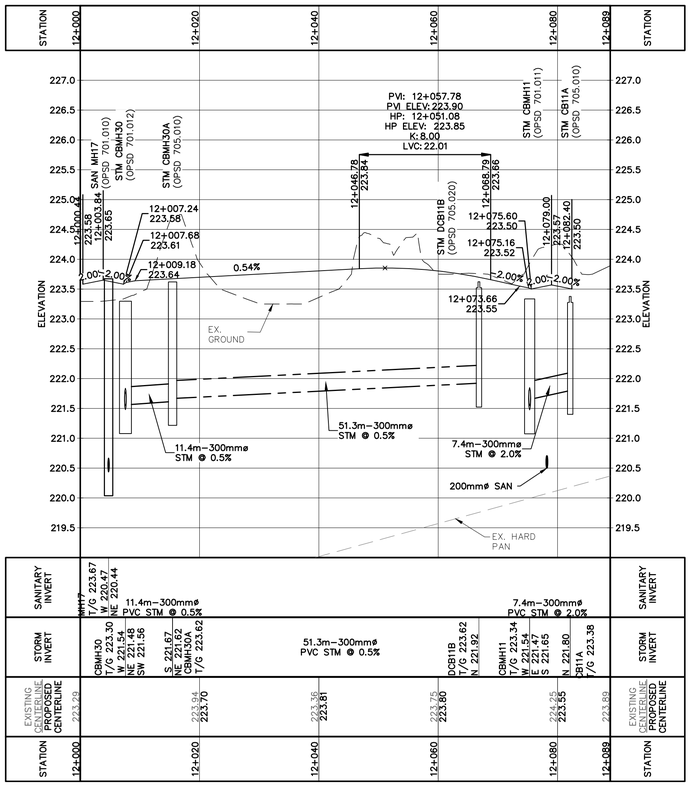
Town [redacted]

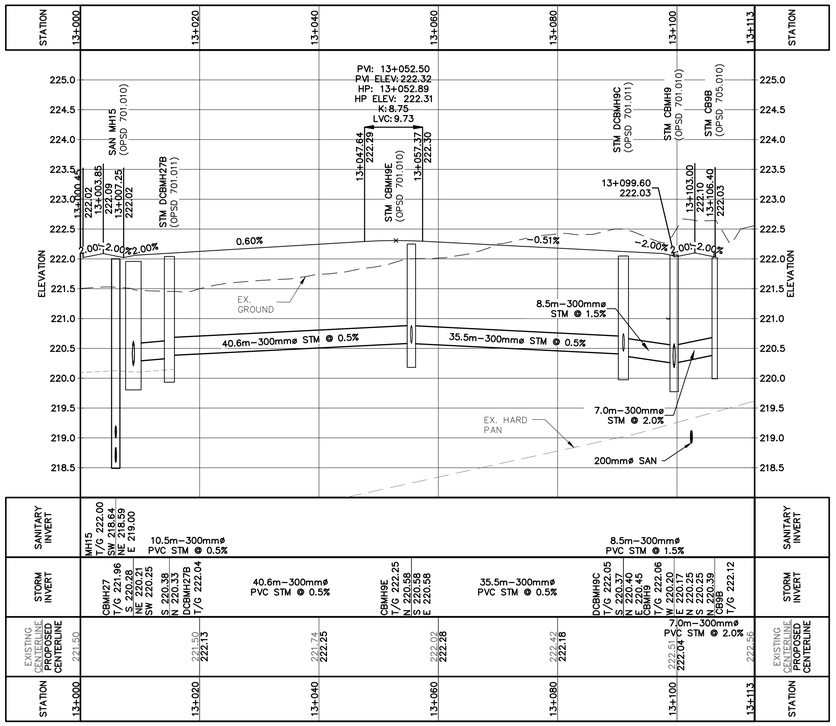
B.B.	B.B.		721–3464
V=1:50 H=1:500	DEC 10, 2021	J.E./R.W.	PP16











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Engineer [redacted]

Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
PLAN & PROFILE
LANE J (STA 12+000 – 12+089)
LANE H (STA 13+000 – 13+133)

Town [redacted]

B.B.	B.B.	721–3464
V=1:50 H=1:500	DEC 10, 2021	J.E./R.W.	PP17

REGISTERED PLAN 528

GREY COUNTY ROAD No. 19

STREET A

STREET B

STREET C

STREET D

STREET E

STREET F

STREET G

LANE D

LANE H

LANE I

LANE J

HELEN STREET

BLOCK 89

BLOCK 94

BLOCK 95

MATCHLINE

MATCHLINE

N

SCALE: 1:1000

20 0m 20 40 60 80

PRE-SERVICING LEGEND

EXTENT OF UNDERGROUND WORKS – 5m o/s FROM R.O.W./PROPERTY LINE

EXTENT OF SURFACE WORKS – 10m o/s FROM R.O.W./PROPERTY LINE

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Engineer [redacted]

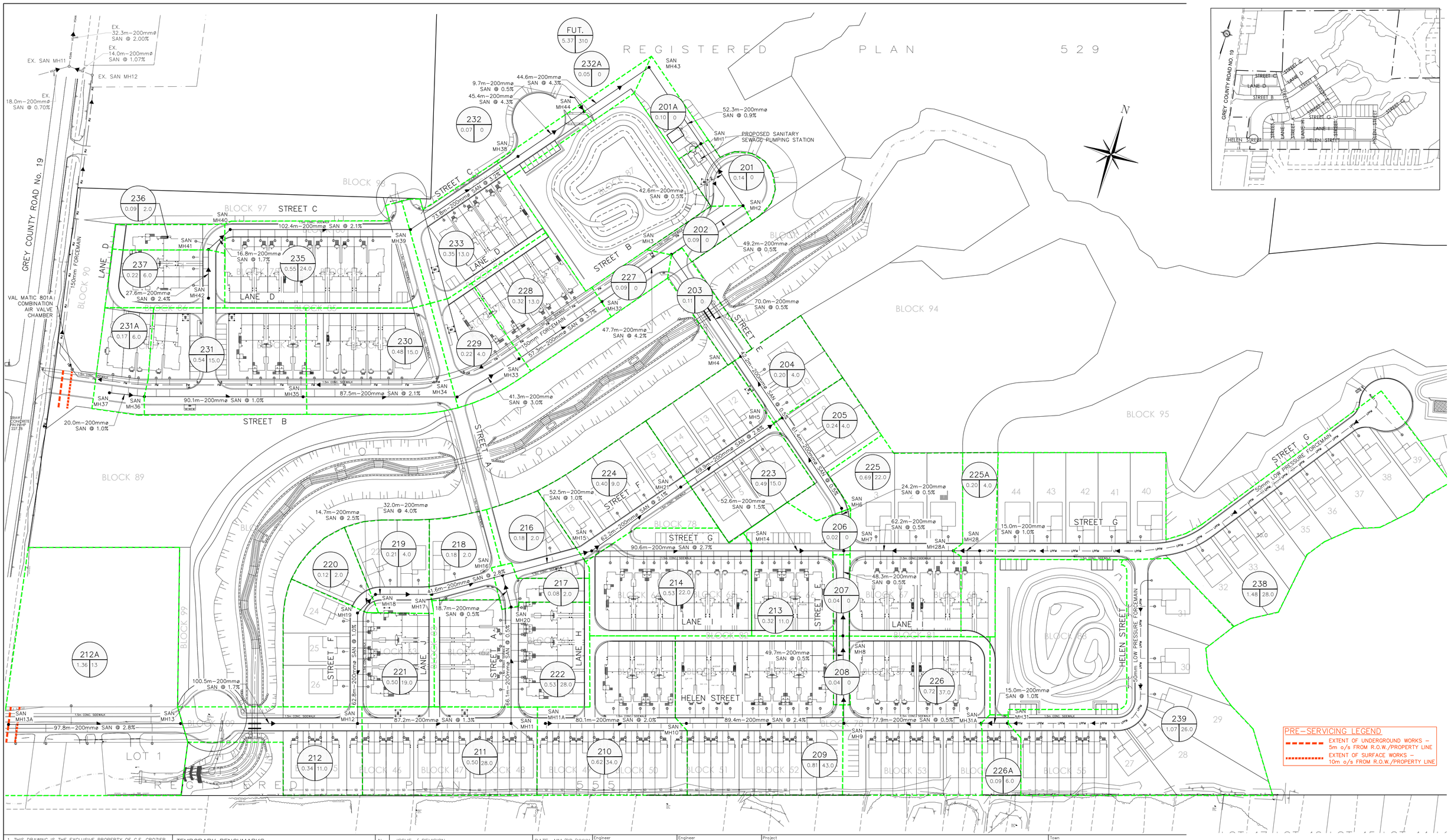
Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
STORM AREA DRAINAGE PLAN

Town [redacted]

B.B.	B.B.	721-3464	
1:1000	DEC 10, 2021	J.E./R.W.	STM1



PRE–SERVICING LEGEND

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- EXTENT OF SURFACE WORKS – 10m o/s FROM R.O.W./PROPERTY LINE

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TEMPORARY BENCHMARKS

SBM#1–ELEVATION: 227.78
CONCRETE PIN IN HYDRO POLE AT SOUTH EAST CORNER OF GREY ROAD No. 19 AND STREET B INTERSECTION.

No.	ISSUE / REVISION	DATE: MM/DD/YYYY
3	THIRD SUBMISSION	12/22/2022
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9	ISSUED FOR SIXTH SUBMISSION	08/09/2024
10	ISSUED FOR SEVENTH SUBMISSION	08/20/2024

Engineer [redacted]

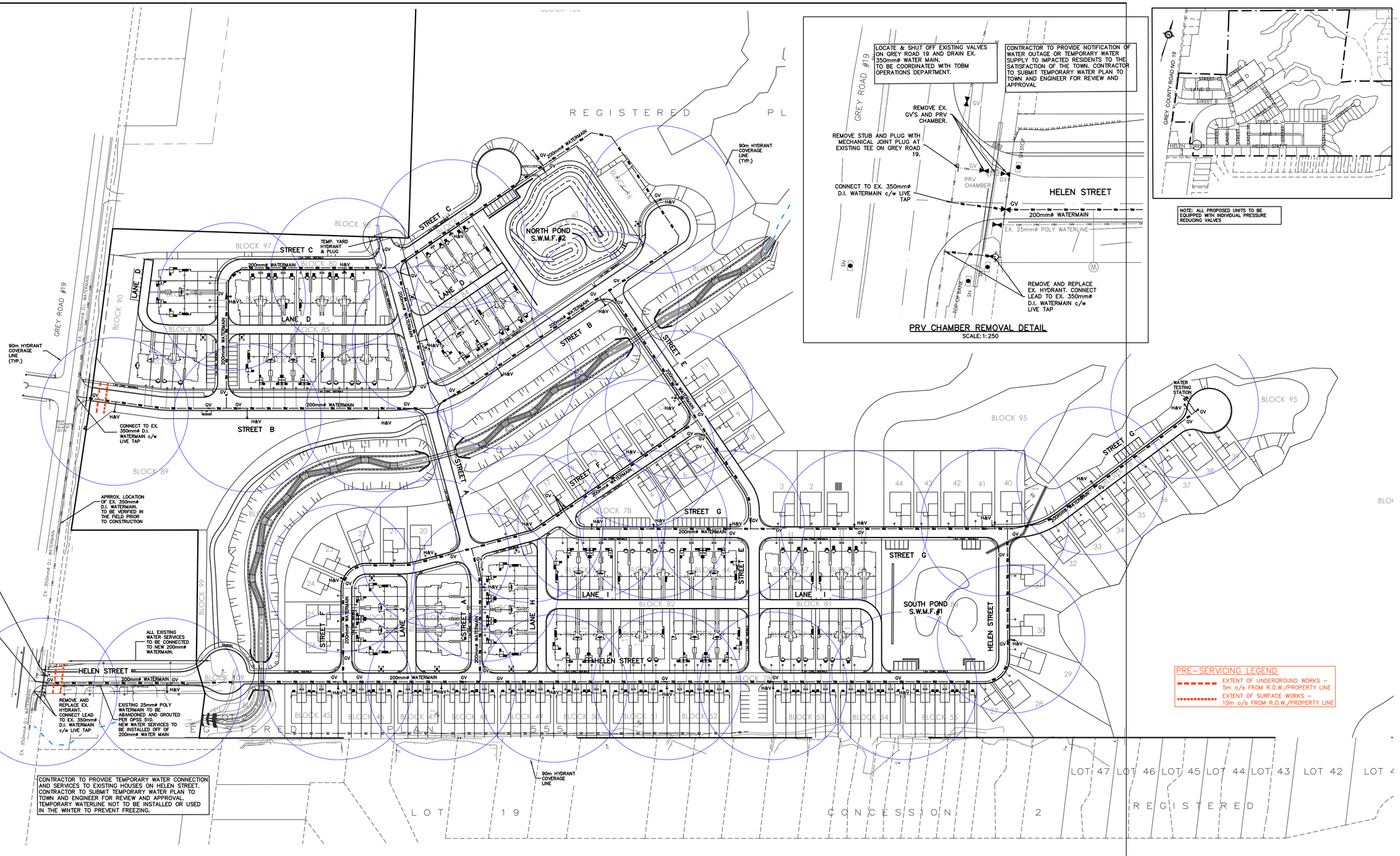
Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
SANITARY AREA DRAINAGE PLAN

Town [redacted]

B.B.	B.B.	721–3464
1:1000	DEC 10, 2021	J.E./R.W. SAN1



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Engineer [redacted]

Engineer [redacted]

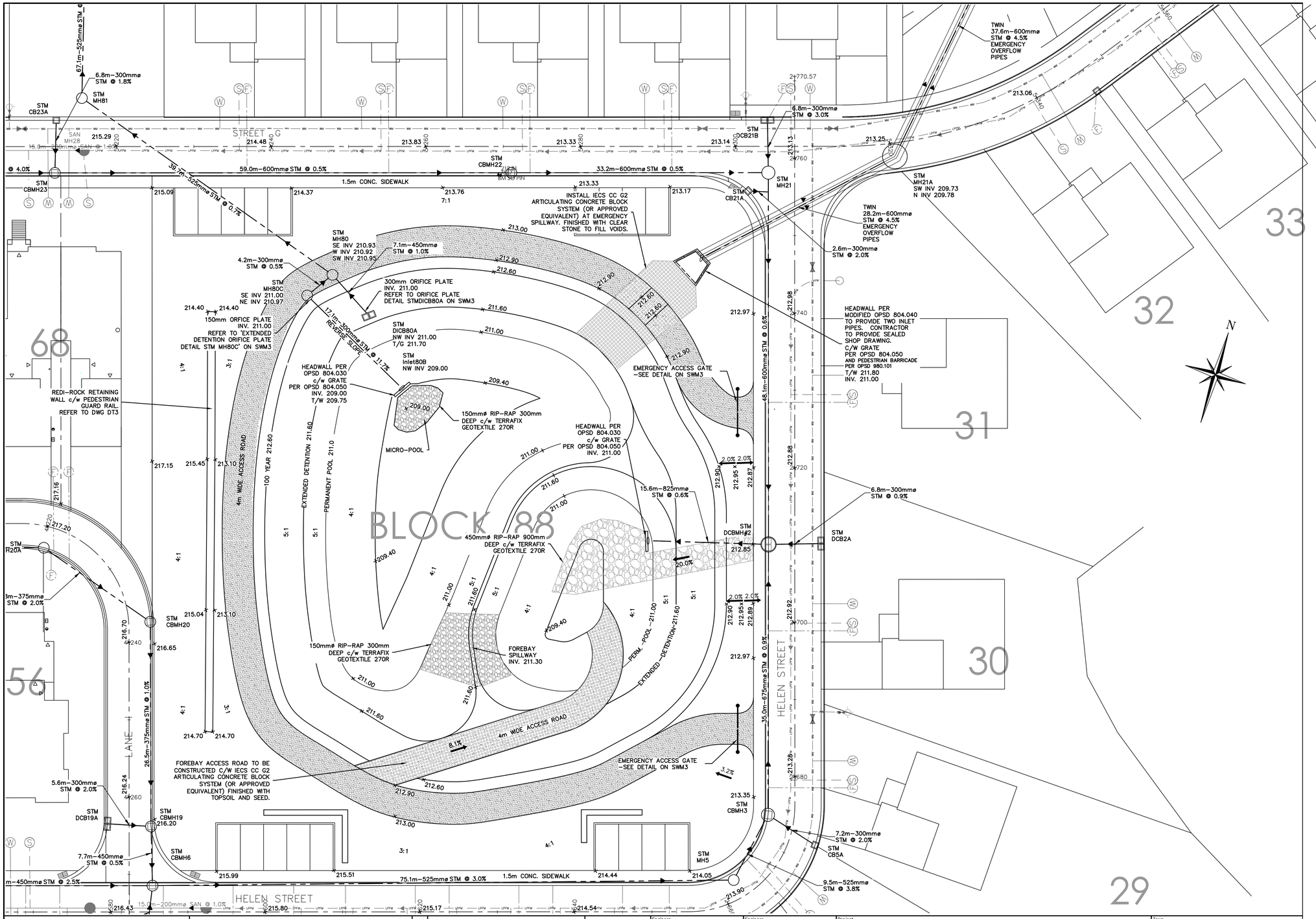
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

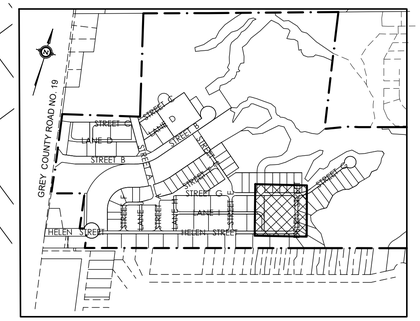
Town

Drawing
WATER SERVICING PLAN

[redacted]

B.B.	B.B.		721-3464
1:1250	DEC 10, 2021	J.E./R.W.	WM1





NOTE:
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POND CONSTRUCTION NOTES:

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Engineer [redacted]
Engineer [redacted]

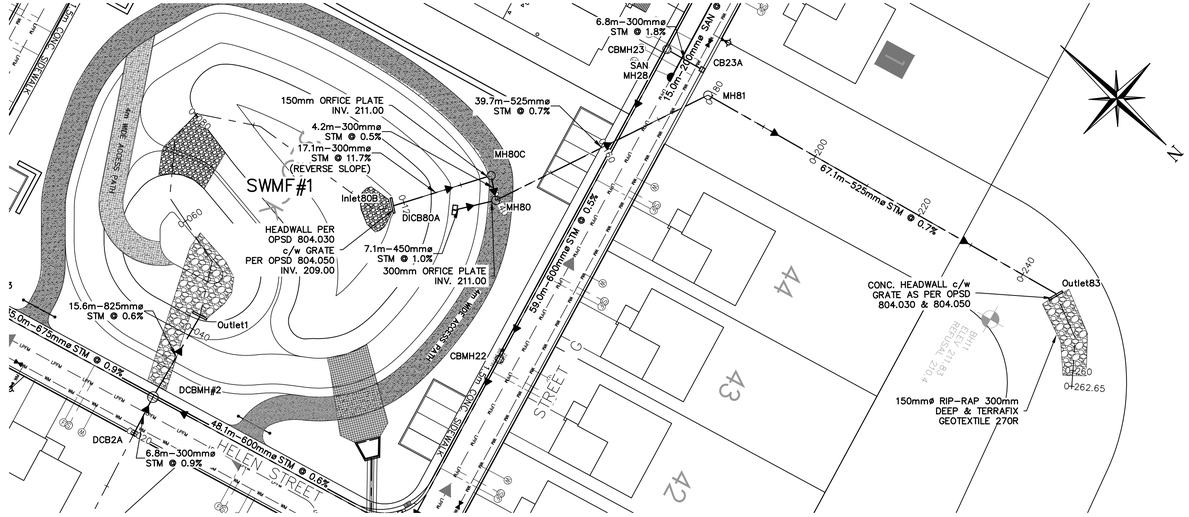
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

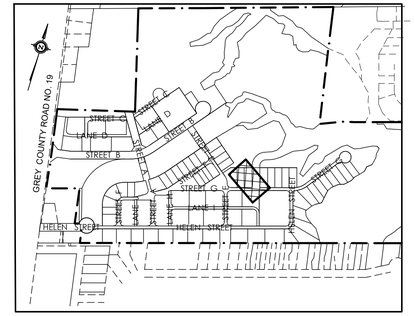
Town

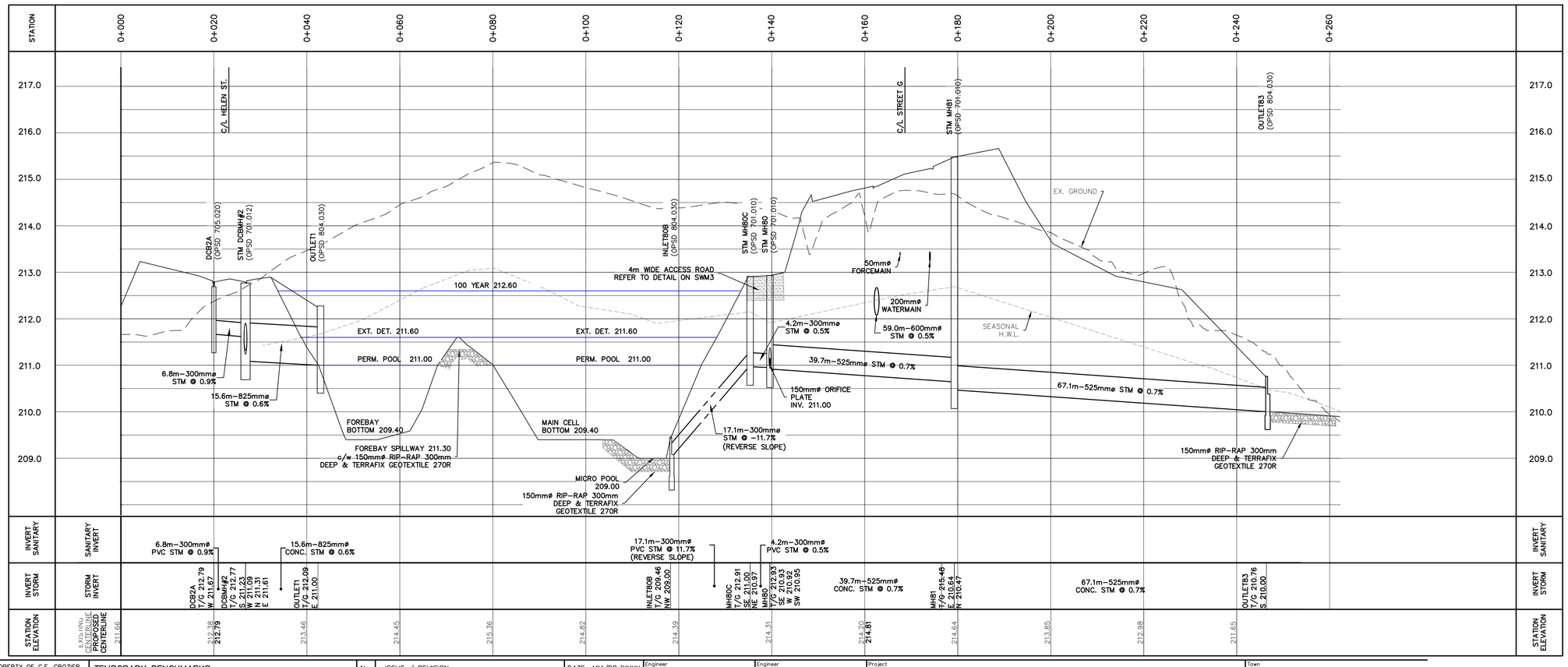
Drawing
SOUTH (SWMF#1)
STORMWATER MANAGEMENT POND PLAN

[redacted]

B.B.	B.B.		721–3464
1:250	DEC 10, 2021	J.E./R.W.	SWM1







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Engineer [redacted]

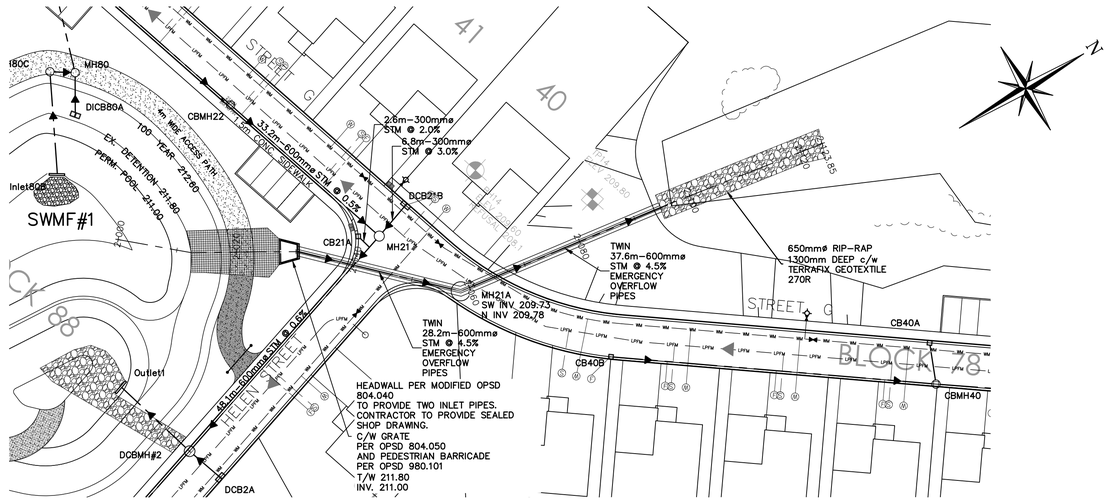
Engineer [redacted]

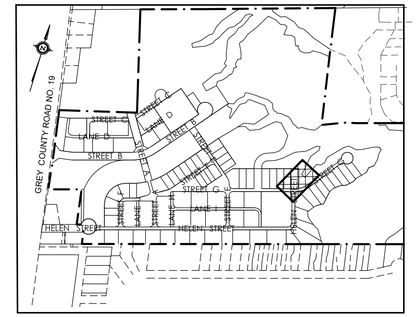
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

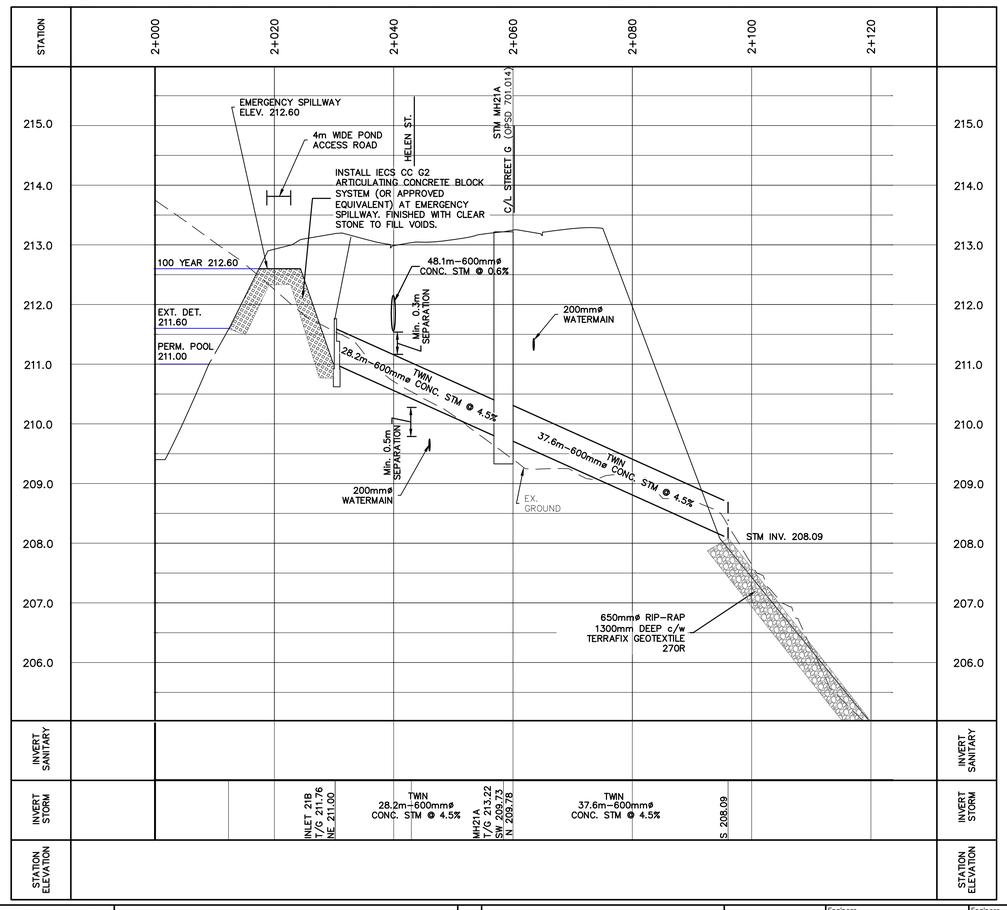
Drawing
SOUTH (SWMF#1) POND OUTLET
STA 0+000 – 0+240

Town [redacted]

B.B.	B.B.	721–3464
V=1:50 H=1:500	DEC 10, 2021	J.E./R.W. SWM2A







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Engineer [redacted]

Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

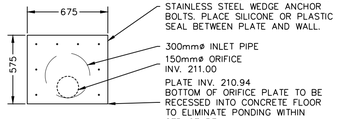
Drawing
SOUTH (SWMF#1) POND EMERGENCY OUTLET
STA 2+000 – 2+120

Town [redacted]

B.B.	B.B.		721–3464
V=1:50 H=1:500	DEC 10, 2021	J.E./R.W.	SWM2B

EXTENDED DETENTION ORIFICE PLATE DETAIL STM MH80C

SCALE: 1:25



575mm X 675mm ORIFICE PLATE. BOLT ORIFICE PLATE TO WALL WITH STAINLESS STEEL WEDGE ANCHOR BOLTS. PLACE SILICONE OR PLASTIC SEAL BETWEEN PLATE AND WALL.

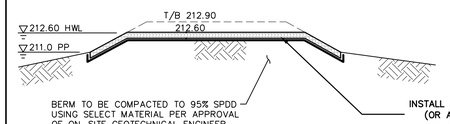
300mmø INLET PIPE
150mmø ORIFICE
INV. 211.00

PLATE INV. 210.94
BOTTOM OF ORIFICE PLATE TO BE RECESSED INTO CONCRETE FLOOR TO ELIMINATE PONDING WITHIN STRUCTURE.

EMERGENCY SPILLWAY

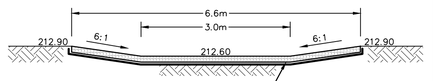
SCALE: N.T.S.

PROFILE

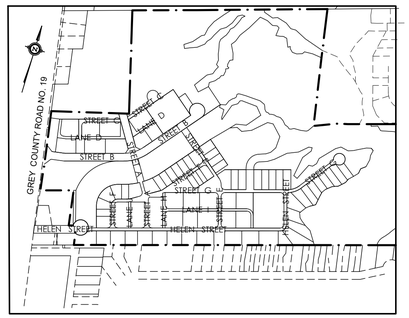


BERM TO BE COMPACTED TO 95% SPDD USING SELECT MATERIAL PER APPROVAL OF ON-SITE GEOTECHNICAL ENGINEER

CROSS SECTION

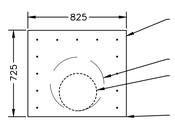


INSTALL IECS CC G2 ARTICULATING CONCRETE BLOCK SYSTEM (OR APPROVED EQUIVALENT) AT EMERGENCY SPILLWAY. FINISHED WITH CLEAR STONE TO FILL VOIDS.



ORIFICE PLATE DETAIL STM DICB80A

SCALE: 1:25



725mm X 825mm ORIFICE PLATE. BOLT ORIFICE PLATE TO WALL WITH STAINLESS STEEL WEDGE ANCHOR BOLTS. PLACE SILICONE OR PLASTIC SEAL BETWEEN PLATE AND WALL.

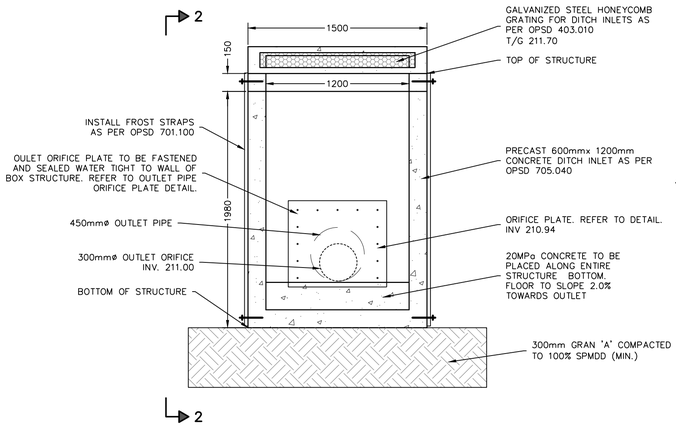
450mmø INLET PIPE
300mmø ORIFICE
INV.211.00

PLATE INV. 210.94
BOTTOM OF ORIFICE PLATE TO BE RECESSED INTO CONCRETE FLOOR TO ELIMINATE PONDING WITHIN STRUCTURE.

OUTLET STRUCTURE DETAIL (SOUTH POND) STM DICB80A

SCALE: 1:25

SECTION 1–1



GALVANIZED STEEL HONEYCOMB GRATING FOR DITCH INLETS AS PER OPSD 403.010 T/G 211.70

TOP OF STRUCTURE

INSTALL FROST STRAPS AS PER OPSD 701.100

OULET ORIFICE PLATE TO BE FASTENED AND SEALED WATER TIGHT TO WALL OF BOX STRUCTURE. REFER TO OUTLET PIPE ORIFICE PLATE DETAIL.

PRECAST 600mmx 1200mm CONCRETE DITCH INLET AS PER OPSD 705.040

450mmø OUTLET PIPE

ORIFICE PLATE. REFER TO DETAIL. INV 210.94

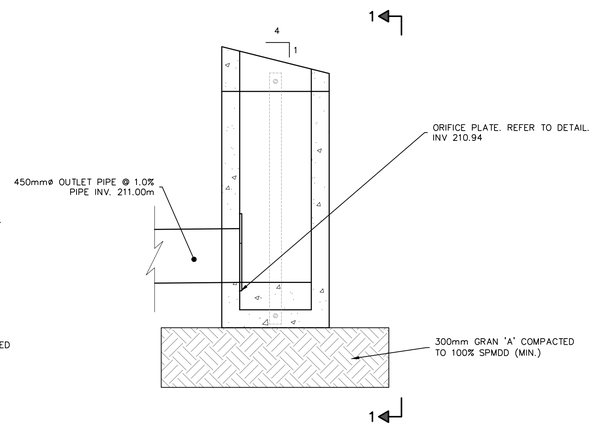
300mmø OUTLET ORIFICE INV. 211.00

20MPa CONCRETE TO BE PLACED ALONG ENTIRE STRUCTURE BOTTOM. FLOOR TO SLOPE 2.0% TOWARDS OUTLET

BOTTOM OF STRUCTURE

300mm GRAN 'A' COMPACTED TO 100% SPMDD (MIN.)

SECTION 2–2



ORIFICE PLATE. REFER TO DETAIL. INV 210.94

450mmø OUTLET PIPE @ 1.0% PIPE INV. 211.00m

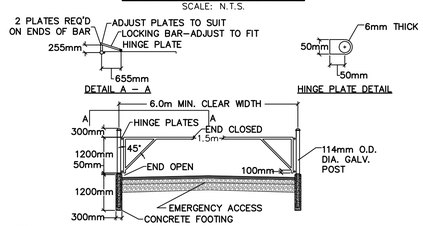
300mm GRAN 'A' COMPACTED TO 100% SPMDD (MIN.)

NOTES:

1. ALL UNITS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL SUPPLY FABRICATOR/SHOP DRAWINGS FOR STRUCTURE, TRASH SCREEN & ORIFICE PLATE ASSEMBLY FOR REVIEW & APPROVAL BY ENGINEER.
3. INLET GRATE SHALL BE WELDED TO CSAW59–M1989.
4. ALL STEEL TO BE DOUBLE HOT DIP GALVANIZED TO G–164, POST FABRICATION.
5. ALL STEEL TO CONFORM TO CSA–CAN–G40.21 M81, GRADE 300.
6. ALL STRUCTURE JOINTS, INLETS & OUTLETS TO BE PARGED TO PROVIDE A WATER TIGHT SEAL.
7. ALL FASTNERS TO BE STAINLESS STEEL.

EMERGENCY ACCESS GATE

SCALE: N.T.S.

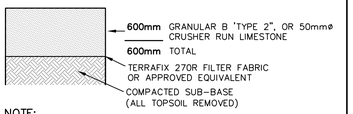


NOTES:

1. CONCRETE 30 MPa. MIN. AFTER 28 DAYS.
2. ALL JOINTS TO BE WELDED.
3. WELDING SHALL CONFORM TO THE LATEST ISSUE OF C.S.A. SPECIFICATION W59.
4. GATE TO BE PREMANUFACTURED AND HOT DIPPED GALVANIZED.
5. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW & APPROVAL OF TOWN & ENGINEER PRIOR TO FABRICATION.
6. WALKWAY/MAINTENANCE GATE TO BE INSTALLED AT EMERGENCY ACCESS.
7. GATE TO BE LOCKED AND SECURED UPDON COMPLETION OF INSTALLATION.

4.0m WIDE ACCESS ROAD STRUCTURE DETAIL

SCALE: N.T.S.



600mm GRANULAR B 'TYPE 2", OR 50mmø CRUSHER RUN LIMESTONE

600mm TOTAL

TERRAFIX 270R FILTER FABRIC OR APPROVED EQUIVALENT

COMPACTED SUB–BASE (ALL TOPSOIL REMOVED)

NOTE:

REFER TO CONSTRUCTION NOTES FOR DETAILS ON PLACEMENT OF MATERIALS.

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Engineer [redacted]

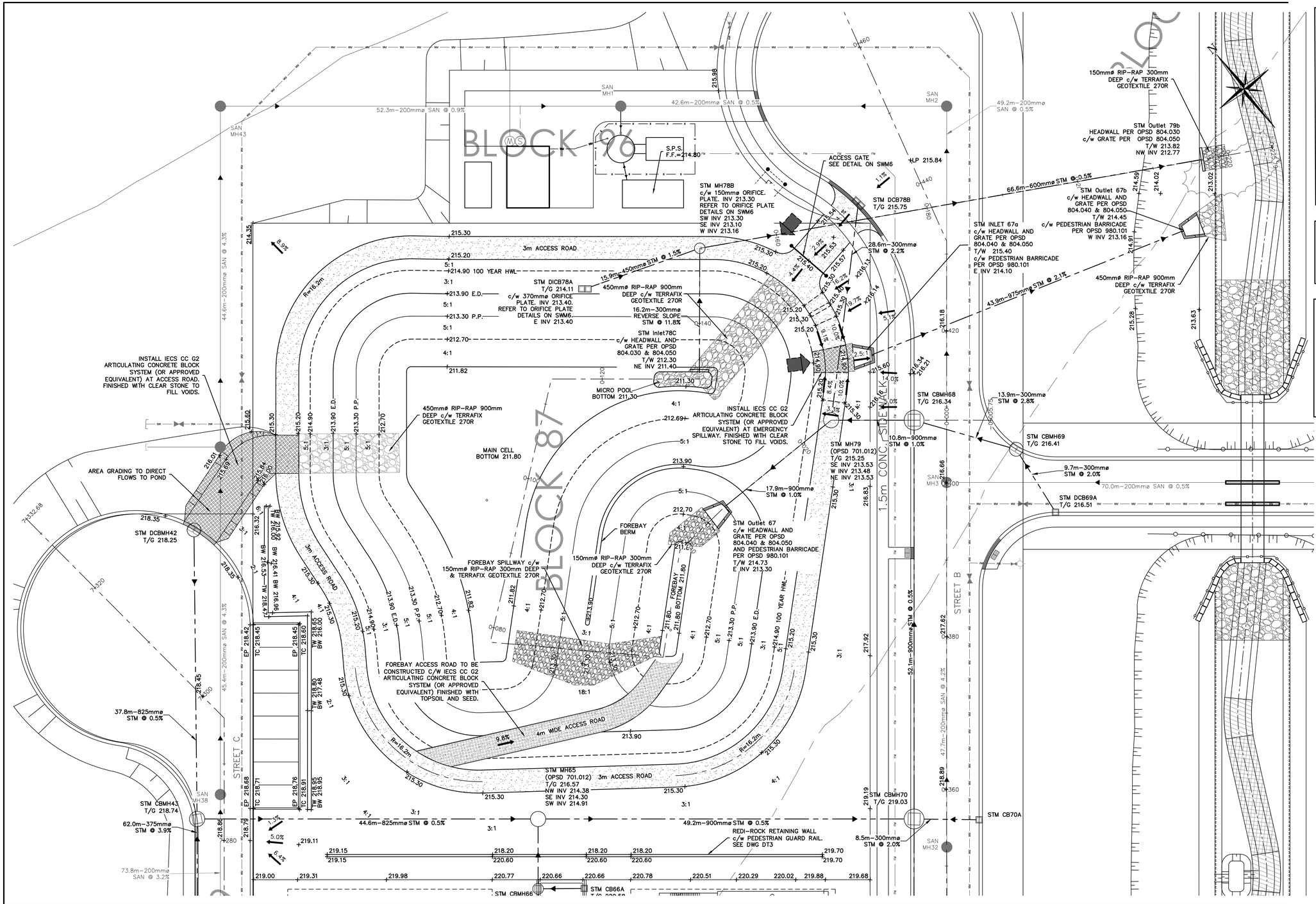
Engineer [redacted]

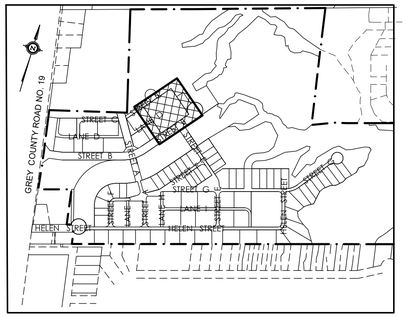
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
SOUTH SWM POND DETAILS

Town [redacted]

B.B.	B.B.		721–3464
1:1000	DEC 10, 2021	J.E./R.W.	SWM3





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TEMPORARY BENCHMARKS

SBM#1–ELEVATION: 227.78
CONCRETE PIN IN HYDRO POLE AT SOUTH EAST CORNER OF GREY ROAD No. 19 AND STREET B INTERSECTION.

No.	ISSUE / REVISION	DATE: MM/DD/YYYY
3	THIRD SUBMISSION	12/22/2022
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10	ISSUED FOR SEVENTH SUBMISSION	08/20/2024

Engineer [redacted]

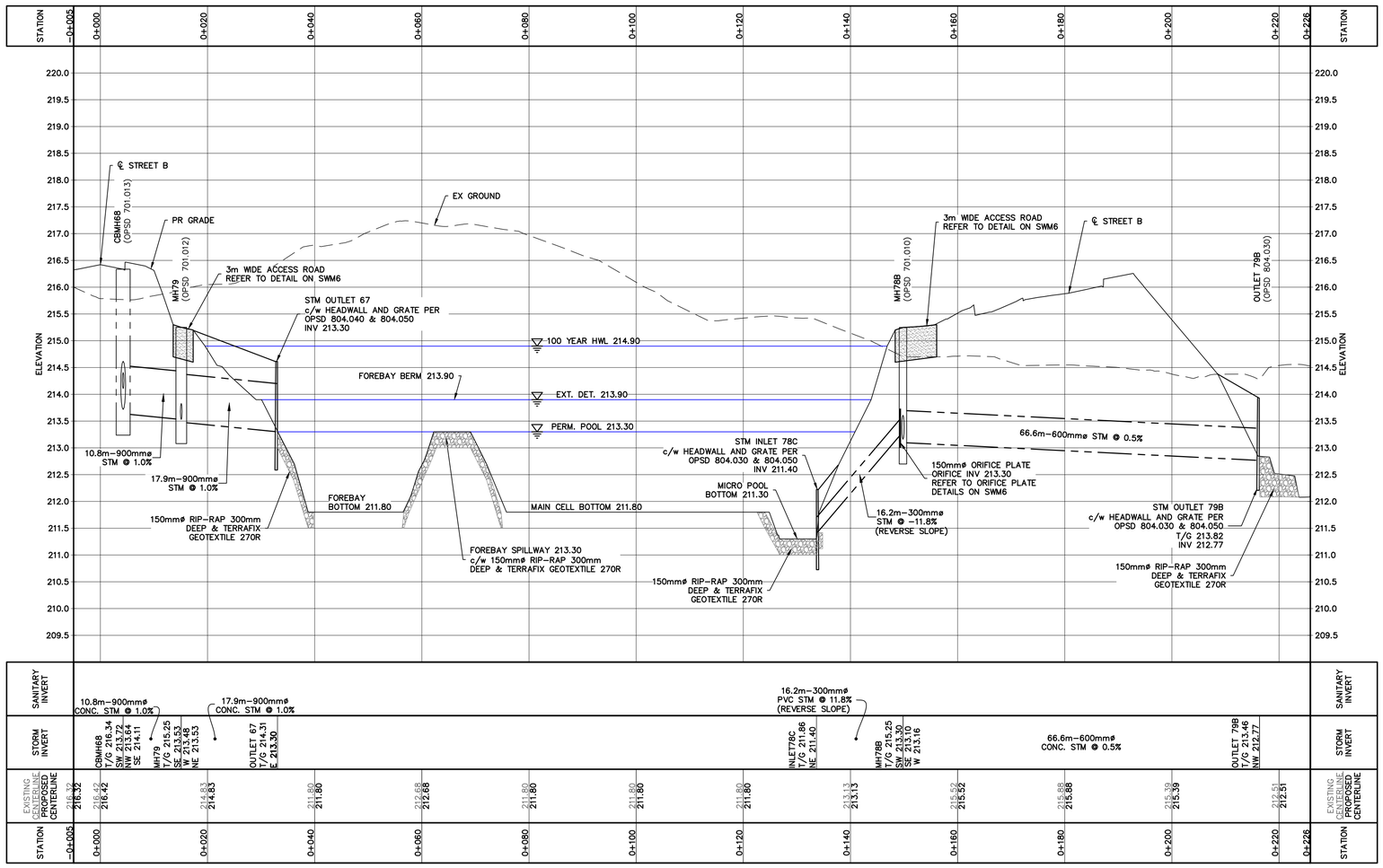
Engineer [redacted]

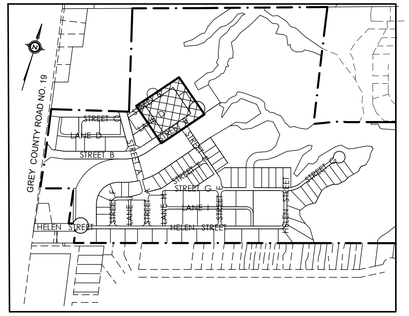
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
NORTH (SWMF#2)
STORMWATER MANAGEMENT POND PLAN

Town [redacted]

B.B.	B.B.		721–3464
1:250	DEC 10, 2021	J.E. /R.W.	SWM4





NOTE:
1. SWM FACILITY TO BE CONSTRUCTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND CONSTRUCTION IS TO BE OVERSEEN BY THE GEOTECHNICAL CONSULTANT.
2. SWM FACILITY BERM MATERIAL TO BE TESTED BY GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.

POND CONSTRUCTION NOTES:

1. WETPOND TO BE FINISHED WITH TOPSOIL AQUATIC PLANTINGS PER LANDSCAPE ARCHITECT.
2. MATERIAL FOR POND BERM LINER CONSTRUCTION TO BE APPROVED AND CERTIFIED BY GEOTECHNICAL CONSULTANT TO ENSURE ADEQUATE STRUCTURAL STRENGTH AND PERMEABILITY. REFER TO GEOTECHNICAL REPORT FOR RECOMMENDATIONS.
3. REFER TO GEOTECHNICAL REPORT FOR TEST PIT INFORMATION.

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Engineer [redacted]

Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

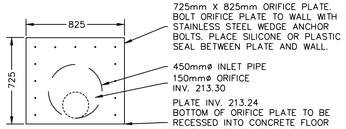
Drawing
NORTH (SWMF#2)
STORMWATER MANAGEMENT POND PLAN

Town [redacted]

B.B.	B.B.		721–3464
1:250	DEC 10, 2021	J.E./R.W.	SWM5

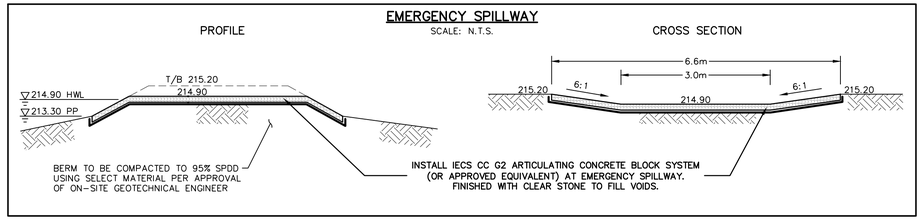
ORIFICE PLATE DETAIL
STM MH78B

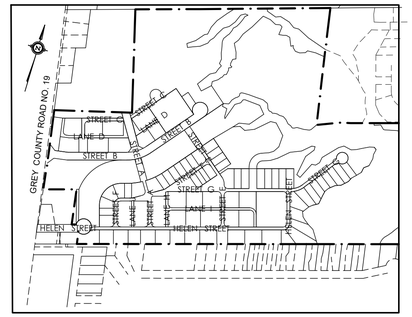
SCALE: 1:25



EMERGENCY SPILLWAY

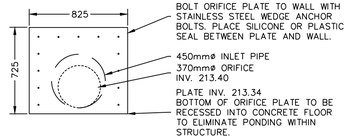
SCALE: N.T.S.





ORIFICE PLATE DETAIL
STM DICB78A

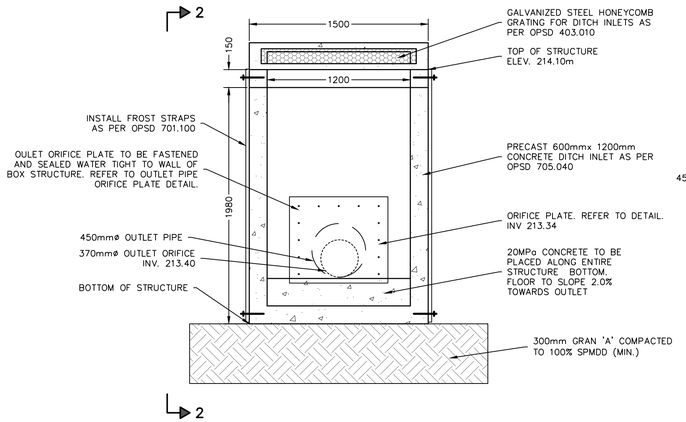
SCALE: 1:25



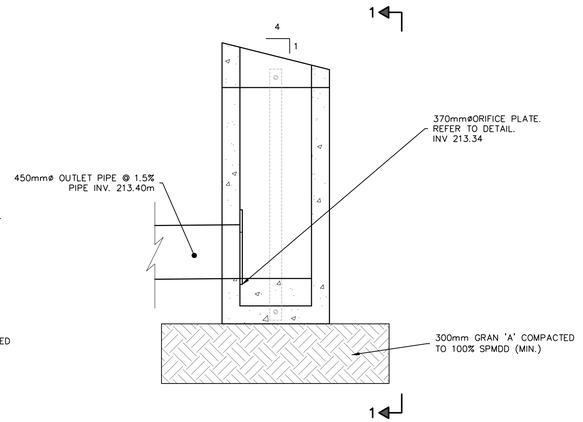
OUTLET STRUCTURE DETAIL DICB78A (NORTH POND)

SCALE: 1:25

SECTION 1–1



SECTION 2–2

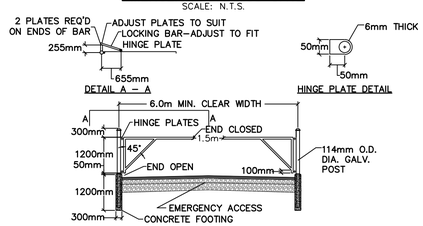


NOTES:

1. ALL UNITS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL SUPPLY FABRICATOR/SHOP DRAWINGS FOR STRUCTURE, TRASH SCREEN & ORIFICE PLATE ASSEMBLY FOR REVIEW & APPROVAL BY ENGINEER.
3. INLET GRATE SHALL BE WELDED TO CSAW59-M1989.
4. ALL STEEL TO BE DOUBLE HOT DIP GALVANIZED TO G-164, POST FABRICATION.
5. ALL STEEL TO CONFORM TO CSA-CAN-G40.21 M81, GRADE 300.
6. ALL STRUCTURE JOINTS, INLETS & OUTLETS TO BE PARGED TO PROVIDE A WATER TIGHT SEAL.
7. ALL FASTNERS TO BE STAINLESS STEEL.

EMERGENCY ACCESS GATE

SCALE: N.T.S.

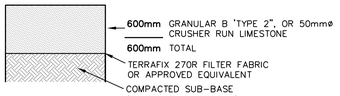


NOTES:

1. CONCRETE 30 MPa. MIN. AFTER 28 DAYS.
2. ALL JOINTS TO BE WELDED.
3. WELDING SHALL CONFORM TO THE LATEST ISSUE OF C.S.A. SPECIFICATION W59.
4. GATE TO BE PREMANUFACTURED AND HOT DIPPED GALVANIZED.
5. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW & APPROVAL OF TOWN & ENGINEER PRIOR TO FABRICATION.
6. WALKWAY/MAINTENANCE GATE TO BE INSTALLED AT EMERGENCY ACCESS.
7. GATE TO BE LOCKED AND SECURED UPON COMPLETION OF INSTALLATION

4.0m WIDE ACCESS ROAD STRUCTURE DETAIL

SCALE: N.T.S.



NOTE:

REFER TO CONSTRUCTION NOTES FOR DETAILS ON PLACEMENT OF MATERIALS.

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TEMPORARY BENCHMARKS

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Engineer [redacted]

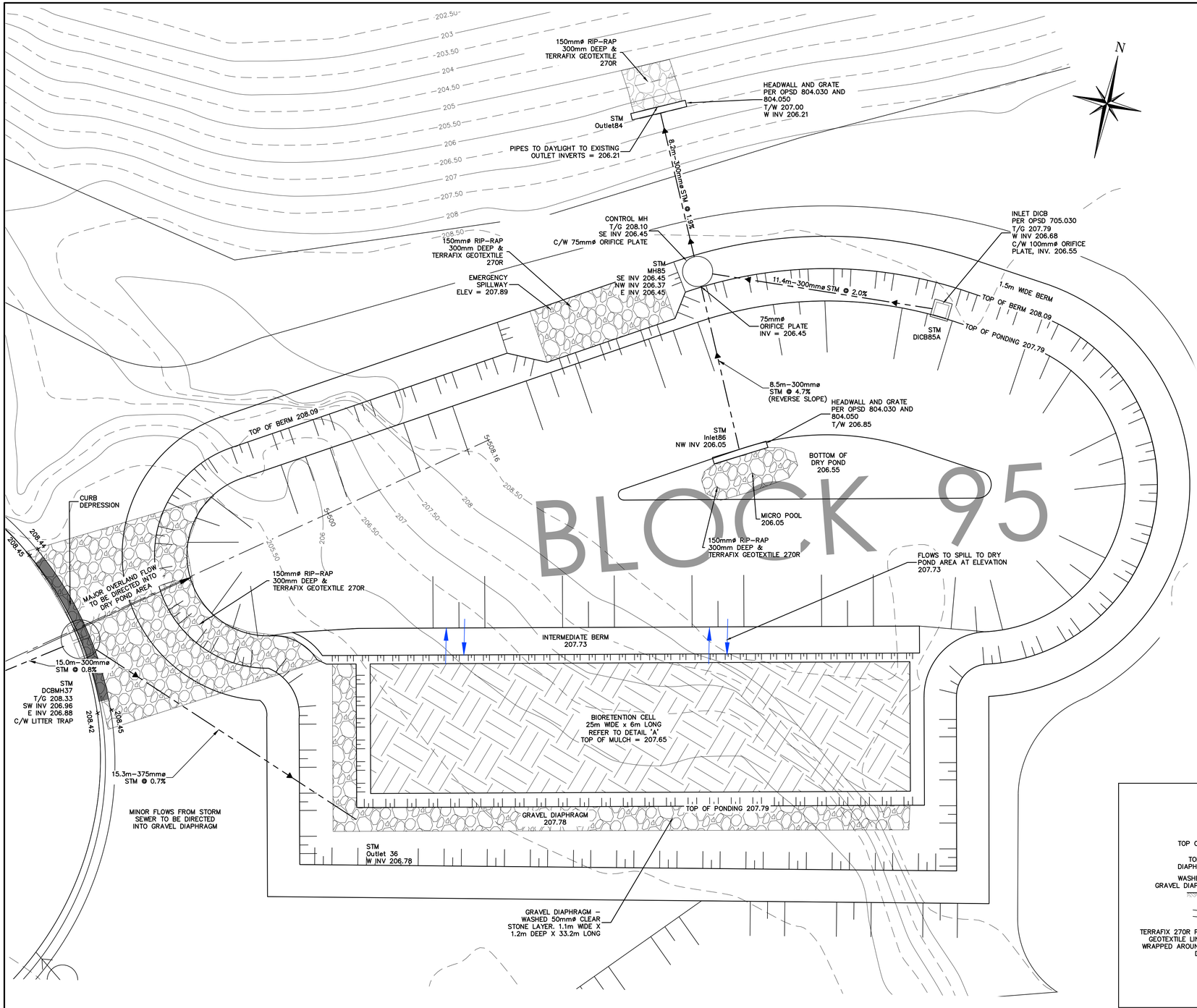
Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

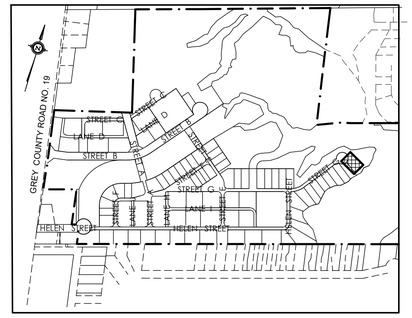
Drawing
NORTH SWM POND DETAILS

Town [redacted]

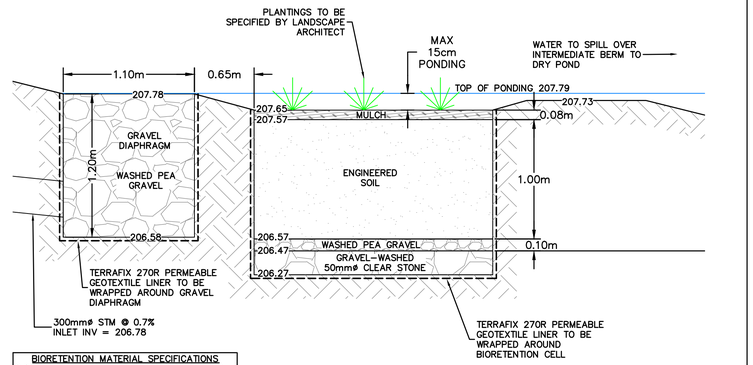
B.B.	B.B.	721-3464
1:1000	DEC 10, 2021	J.E./R.W.
		SWM6



BLOCK 95



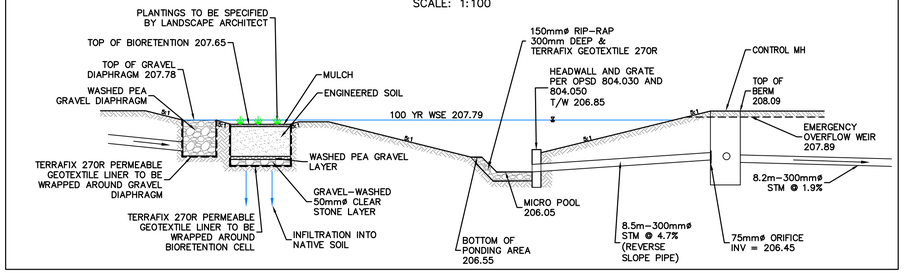
DETAIL 'A' – GRAVEL DIAPHRAGM / BIORETENTION
SCALE: NTS



BIORETENTION MATERIAL SPECIFICATIONS
0.08m MULCH -SHREDDED HARDWOOD BARK
1.0m ENGINEERED SOIL
-85 TO 88% SAND
-8 TO 12% SOIL FINES
-3 TO 5% LEAF FINES
0.10m WASHED PEA GRAVEL
0.20m GRAVEL-WASHED 50mmø CLEAR STONE

NOTES
1. CONSTRUCTION TRAFFIC OVER AREA OF PROPOSED CELL TO BE LIMITED PRIOR TO CONSTRUCTION OF THE CELL. AFTER PLACEMENT OF THE PLANTING MEDIUM, VEHICULAR OR FOOT TRAFFIC ON OR IN THE CELL IS TO BE AVOIDED.
2. CONSTRUCTION OF THE CELL AND PLACEMENT OF THE BED MEDIA SHOULD OCCUR AFTER CONSTRUCTION OF SERVICES AND PARKING STRUCTURE.
3. PLANTING MEDIUM TO BE MIXED TO SPECIFICATION BY SUPPLIER. SEVERAL SAMPLES OF THE PREPARED MEDIUM (ONE FROM EACH OF THE TOP, CENTER, AND BOTTOM OF THE PILE) ARE TO BE TESTED FOR CONFORMANCE WITH THE SPECIFIED GRAIN SIZE DISTRIBUTION PRIOR TO DELIVERY TO THE SITE.
4. CONSTRUCTION OF THE CELL SHOULD OCCUR IN DRY CONDITIONS. EXCAVATION OF THE CELL SHOULD BE FOLLOWED WITH SCARIFICATION OF THE NATIVE SUBBASE TO PROMOTE EXFILTRATION FROM THE CELL. PLANTING MEDIUM SHOULD BE PLACED IN 300mm LIFTS. EACH LIFT TO BE SATURATED WITH WATER AND ALLOWED TO DRAIN PRIOR TO PLACEMENT OF THE NEXT LIFT. UPON PLACEMENT OF THE FINAL LIFT, THE ENTIRE BED SHOULD BE SATURATED AND ALLOWED TO DRAIN. ADDITIONAL PLANTING MEDIUM MAY THEN BE PLACED TO MEET FINAL GRADE OF PLANTING MEDIUM.
5. PHOTO-DEGRADABLE EROSION CONTROL MESH IS TO BE APPLIED OVER TOP OF THE MULCH LAYER, SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT.
6. PLANTINGS TO BE MONITORED AND WATERED AS REQUIRED UNTIL ESTABLISHED IN CONSULTATION WITH LANDSCAPE ARCHITECT.

BIORETENTION / DRY POND
TYPICAL CROSS SECTION
SCALE: 1:100



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Engineer [redacted]

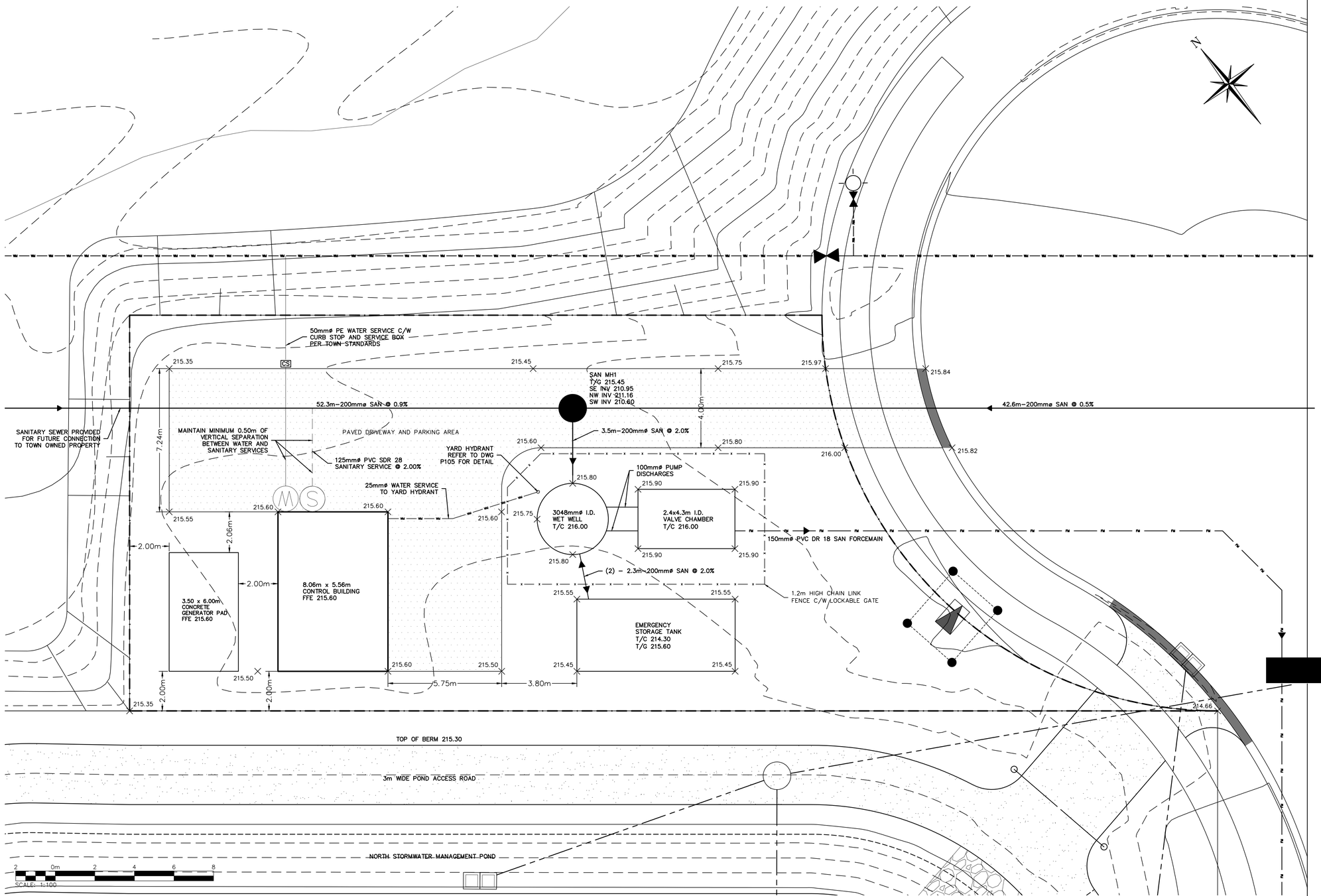
Engineer [redacted]

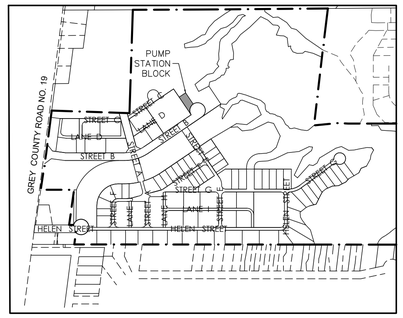
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
BIORETENTION / DRY POND (SWMF#3)
PLAN & DETAILS

Town [redacted]

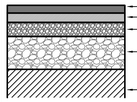
B.B.	B.B.	721-3464	
1:100	DEC 10, 2021	J.E./R.W.	SWM7





PAVEMENT STRUCTURE (PARKING LOT DRIVEWAY)

SCALE: N.T.S.



40mm	HL3 WITH PG ASPHALT CEMENT
50mm	HL8 OR HL4 WITH PG ASPHALT CEMENT
150mm	GRAN. 'A' OR 19mm CRUSHER RUN LIMESTONE
450mm	GRAN. 'B' TYPE 'II' OR 50mm CRUSHER RUN LIMESTONE
690mm	TOTAL
	COMPACTED SUB-BASE (ALL TOPSOIL REMOVED)

NOTE:
REFER TO CONSTRUCTION NOTES FOR DETAILS ON COMPACTION. PAVEMENT STRUCTURE BASED ON GEOTECHNICAL CONSULTANTS RECOMMENDATIONS.

NOTE: THE LIMITS OF CONSTRUCTION START AND END AT THE PROPERTY LINE.

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TEMPORARY BENCHMARKS

TBM#1–
TBM#2–
TBM#3–

***ADD REFERENCE TO SURVEY/SOURCE

Town

No.	ISSUE	DATE: YYYY/MM/DD
1	ISSUED FOR 1st SUBMISSION	2021/12/10
2	ISSUED FOR 90% DETAILED DESIGN	2023/03/21
3	ISSUED FOR CLIENT REVIEW – IFT	2023/12/15
4	ISSUED FOR 90% DETAILED DESIGN REV 1	2024/01/02
5	ISSUED FOR TENDER	2024/01/22
6	ISSUED FOR APPROVAL	2024/03/08
7	ISSUED FOR APPROVAL REV 1 ⚠1	2024/05/24

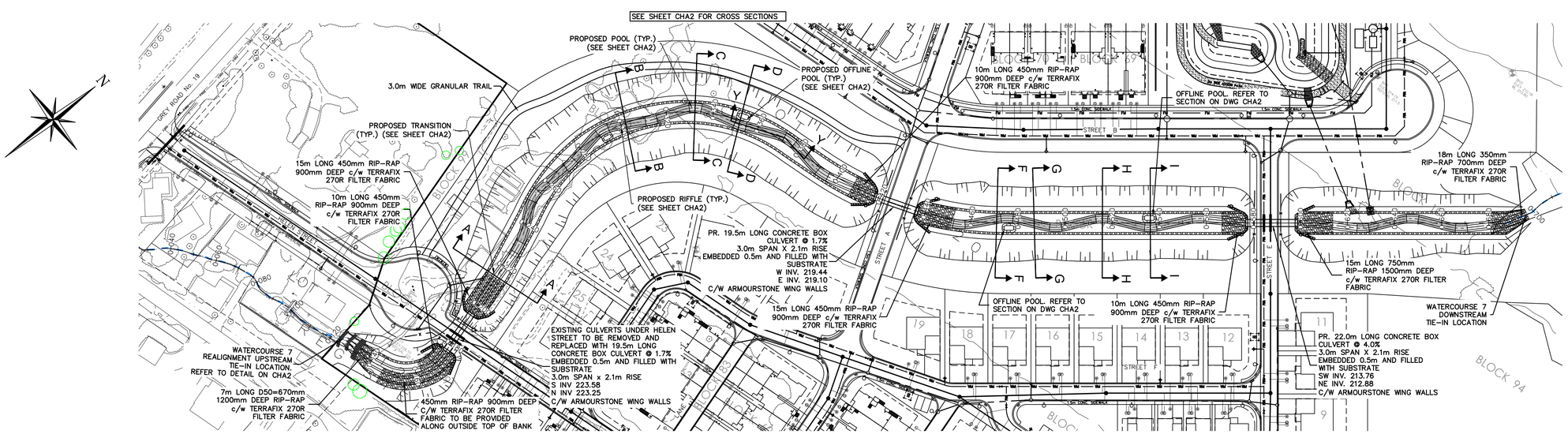
Engineer

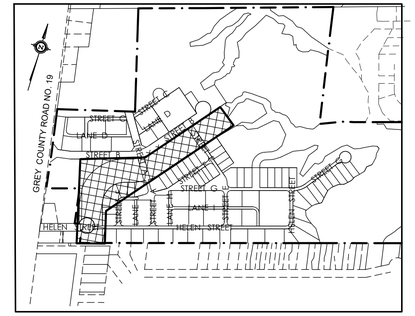
Engineer

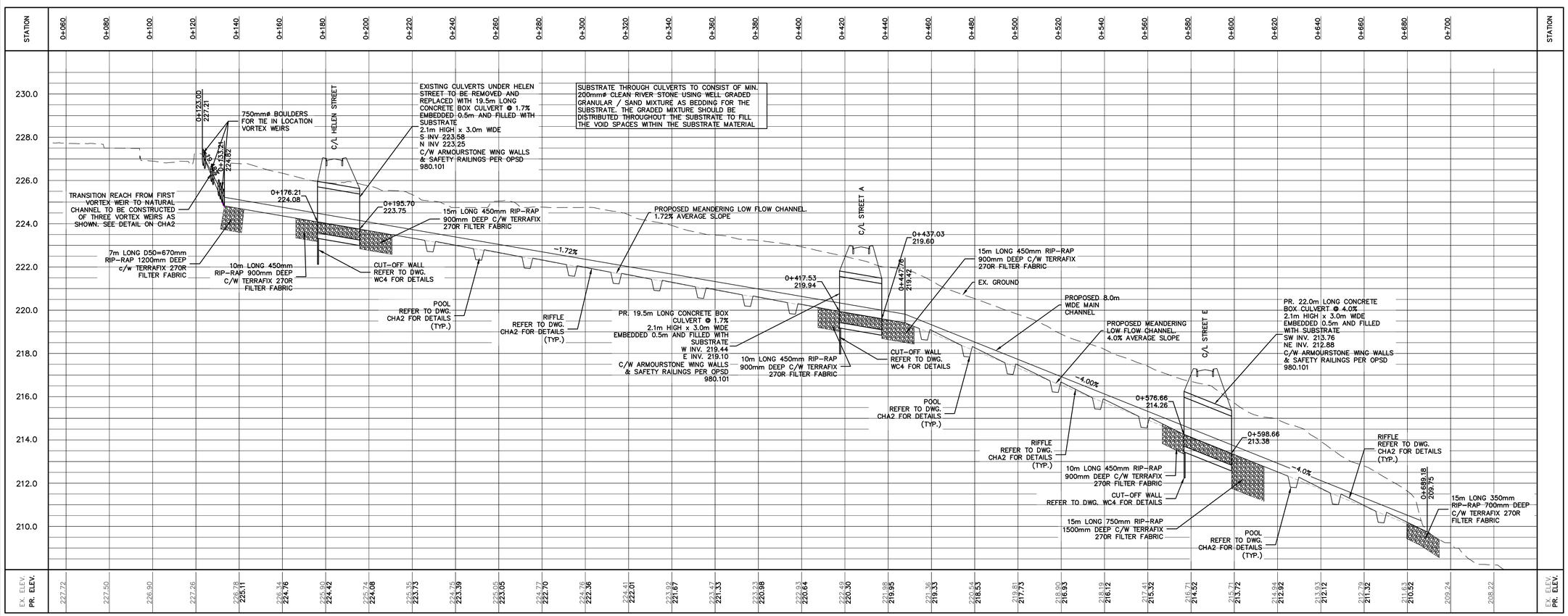
Project
HOME FARM
SEWAGE PUMPING STATION
TOWN OF THE BLUE MOUNTAINS

Drawing
SEWAGE PUMPING STATION SITE PLAN

Drawn By	Design By	Project
B.E.	B.E.	721–3464
Check By	Check By	Drawing
A.L.	M.H.	P101







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Engineer [redacted]

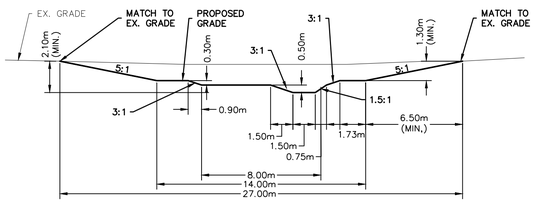
Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

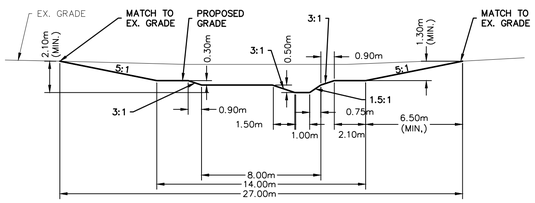
Drawing
PLAN & PROFILE
WATERCOURSE 7 RE-ALIGNMENT
(STA 0+060 – 0+700)

Town [redacted]

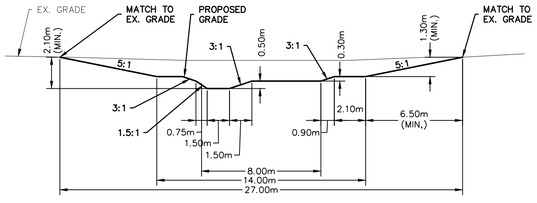
B.B.	B.B.	721-3464
V=1:100 H=1:1000	DEC 10, 2021	J.E./R.W. CHA1



CROSS SECTION D–D
CHANNEL POOL
SCALE: 1:200



CROSS SECTION I–I
CHANNEL POOL
SCALE: 1:200



CROSS SECTION C–C
CHANNEL POOL
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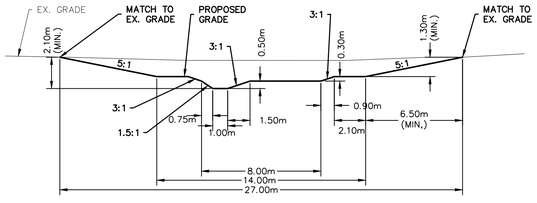

CROSS SECTION H–H
CHANNEL POOL
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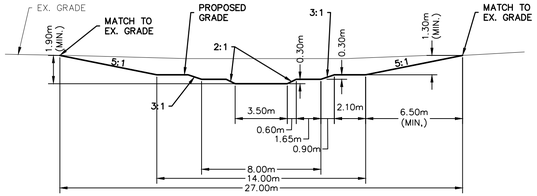
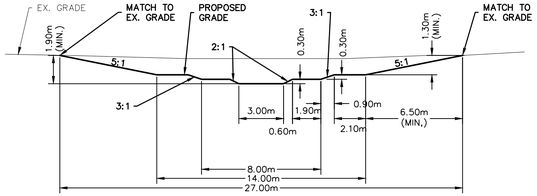
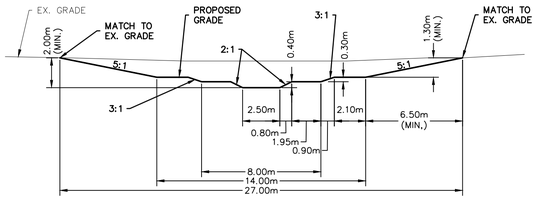


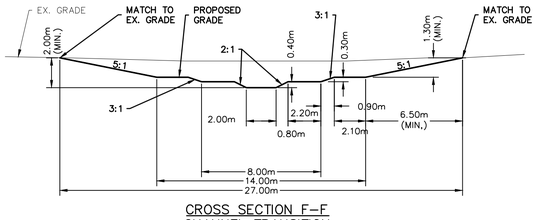
CROSS SECTION B–B
CHANNEL RIFFLE
SCALE: 1:200



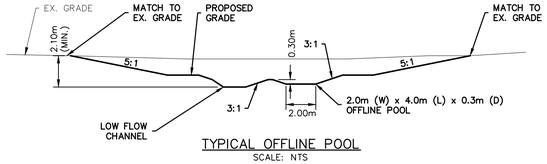
CROSS SECTION G–G
CHANNEL RIFFLE
SCALE: 1:200



CROSS SECTION A–A
CHANNEL TRANSITION
SCALE: 1:200



CROSS SECTION F–F
CHANNEL TRANSITION
SCALE: 1:200



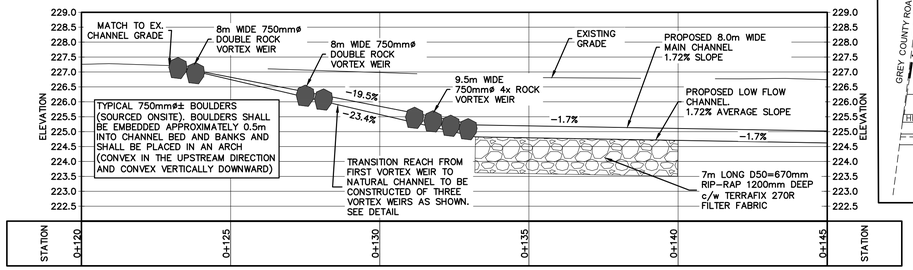
TYPICAL OFFLINE POOL
SCALE: NTS

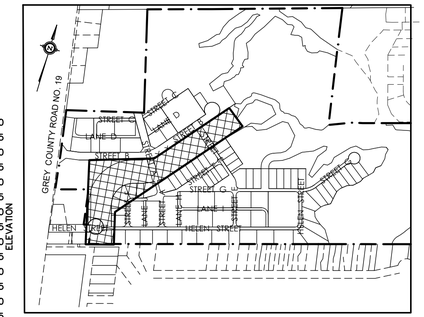
NOTE:
THE NEW WATERCOURSE WILL COMPRISE A GRAVEL BED OF CLEAN RIVER STONE WITH DIAMETER RANGING FROM 50mm TO 150mm IN THE SECTION OF THE CREEK AT 1.72% AND 50mm TO 300mm IN THE SECTION OF THE CREEK AT 4%. THE FINER SUBSTRATE (50mm) WILL BE PLACED IN POOLS, AND THE COARSER MATERIAL WILL BE PLACED IN RIFFLE SECTIONS

CHARACTERISTIC	UPPER REACH (1.7% SLOPE)	MIDDLE REACH (4.0% SLOPE)
OVERALL FLOOD CHANNEL SLOPE	1.7%	4.0%
TYPICAL POOL DEPTH	0.5m	0.5m
TYPICAL RIFFLE SLOPE	1.9%	5.0%
DROP ACROSS POOL	0.05m	0.05m

UPSTREAM CHANNEL TIE IN DETAIL

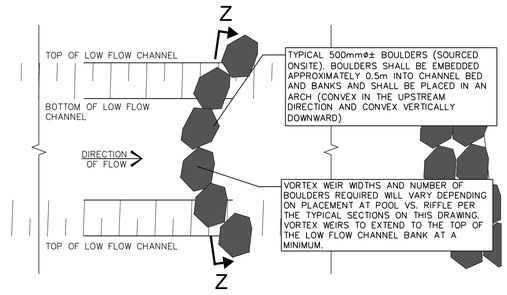
SCALE N.T.S.





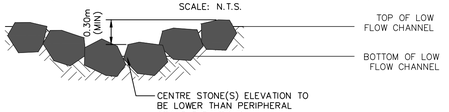
ROCK VORTEX WEIR DETAIL

SCALE: N.T.S.



ROCK VORTEX WEIR SECTION Z–Z

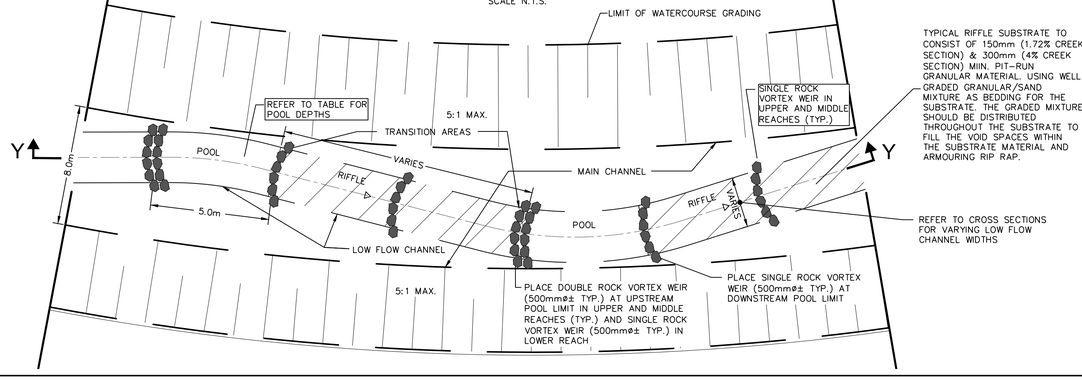
SCALE: N.T.S.



NOTES:
1. WIDTH OF ROCK VORTEX WEIR AS SHOWN ON TYPICAL LOW FLOW CHANNEL DETAIL AND TYPICAL CROSS SECTIONS.
2. DOUBLE ROCK VORTEX WEIRS TO BE CONSTRUCTED WHERE NOTED.

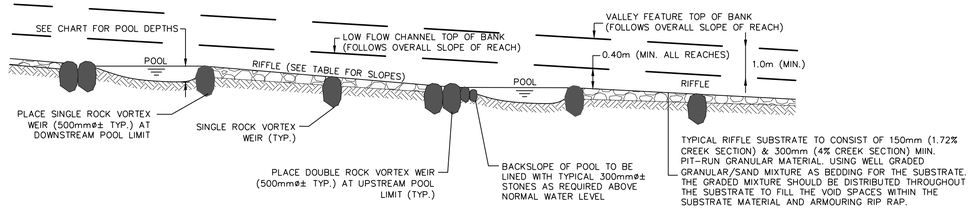
TYPICAL LOW FLOW CHANNEL DETAIL

SCALE N.T.S.



LOW FLOW CHANNEL SECTION Y–Y

SCALE: N.T.S.



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TEMPORARY BENCHMARKS

SBM#1–ELEVATION: 227.78
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Engineer [redacted]
Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

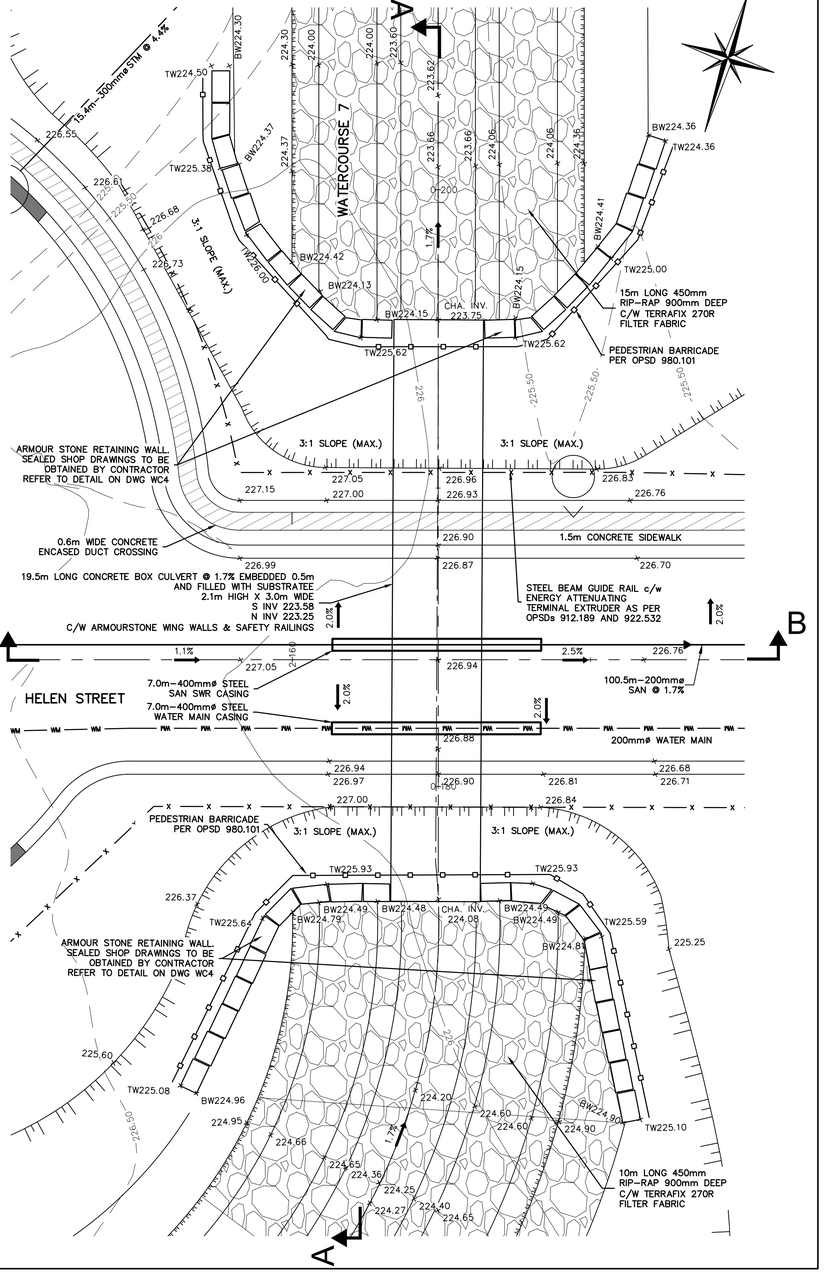
Drawing
WATERCOURSE 7 RE–ALIGNMENT DETAILS

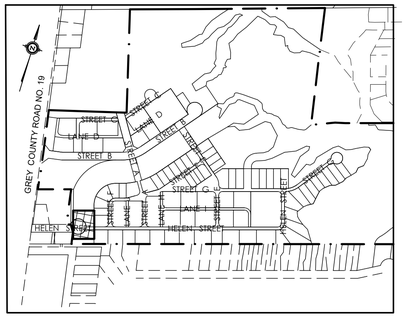
Town [redacted]

B.B.	B.B.		721–3464
NTS	DEC 10, 2021	J.E./R.W.	CHA2

HELEN STREET & WATERCOURSE 7 CROSSING DETAIL

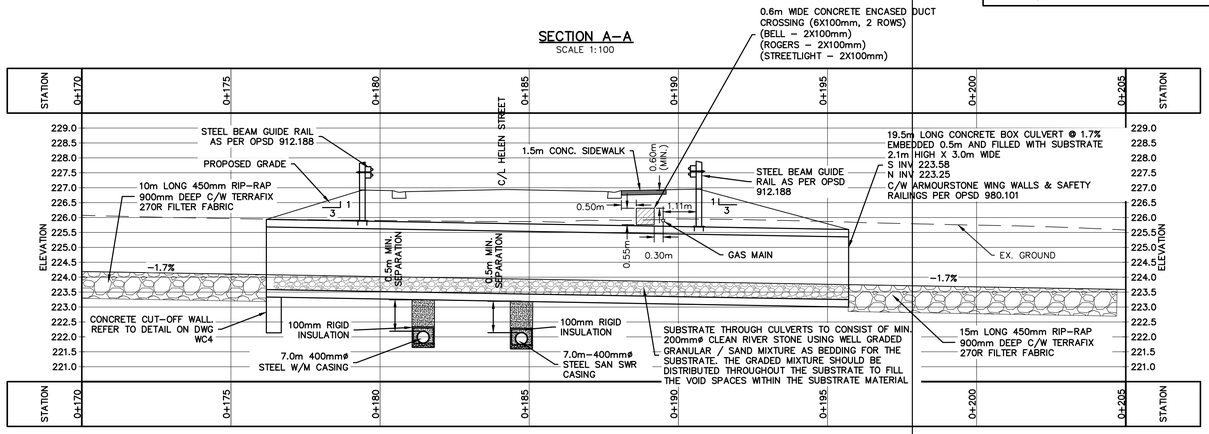
SCALE 1:100





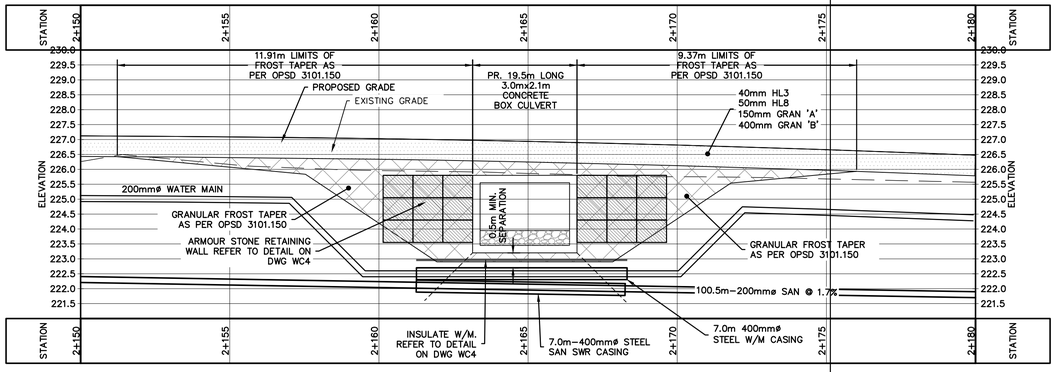
SECTION A–A

SCALE 1:100



SECTION B–B

SCALE 1:100



NOTE:
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Engineer [redacted]

Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

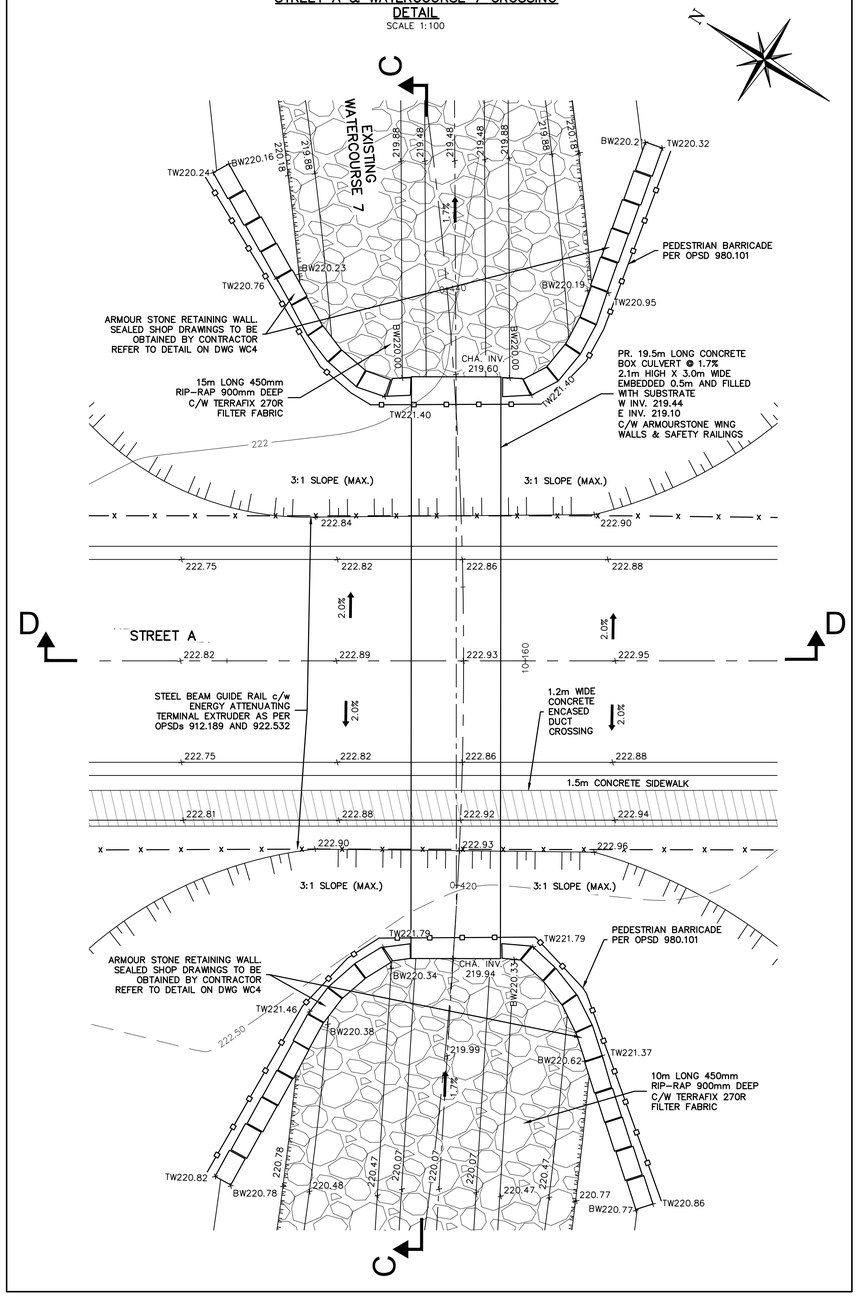
Town

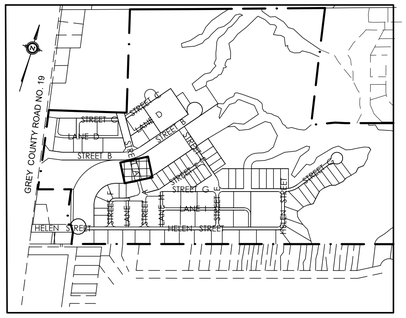
Drawing
PLAN & PROFILE
HELEN STREET & WATERCOURSE 7 CROSSING

[redacted]

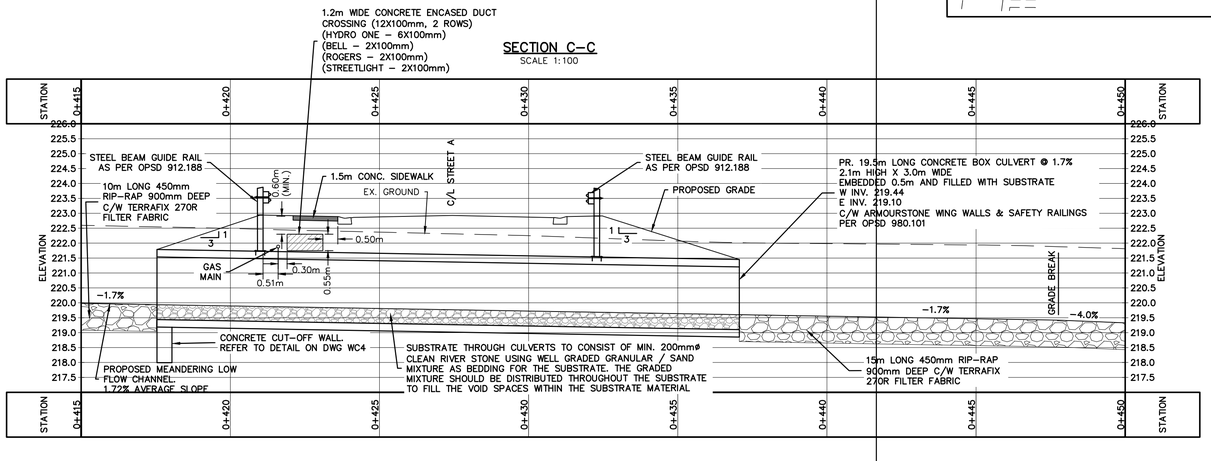
B.B.	B.B.		721–3464
1:100	DEC 10, 2021	J.E./R.W.	WC1

STREET A & WATERCOURSE 7 CROSSING DETAIL
SCALE 1:100

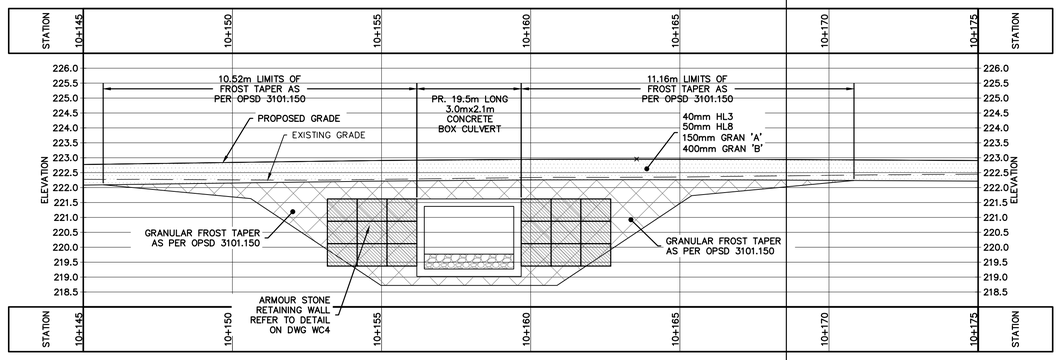




SECTION C–C
SCALE 1:100



SECTION D–D
SCALE 1:100



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Engineer [redacted]

Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Town

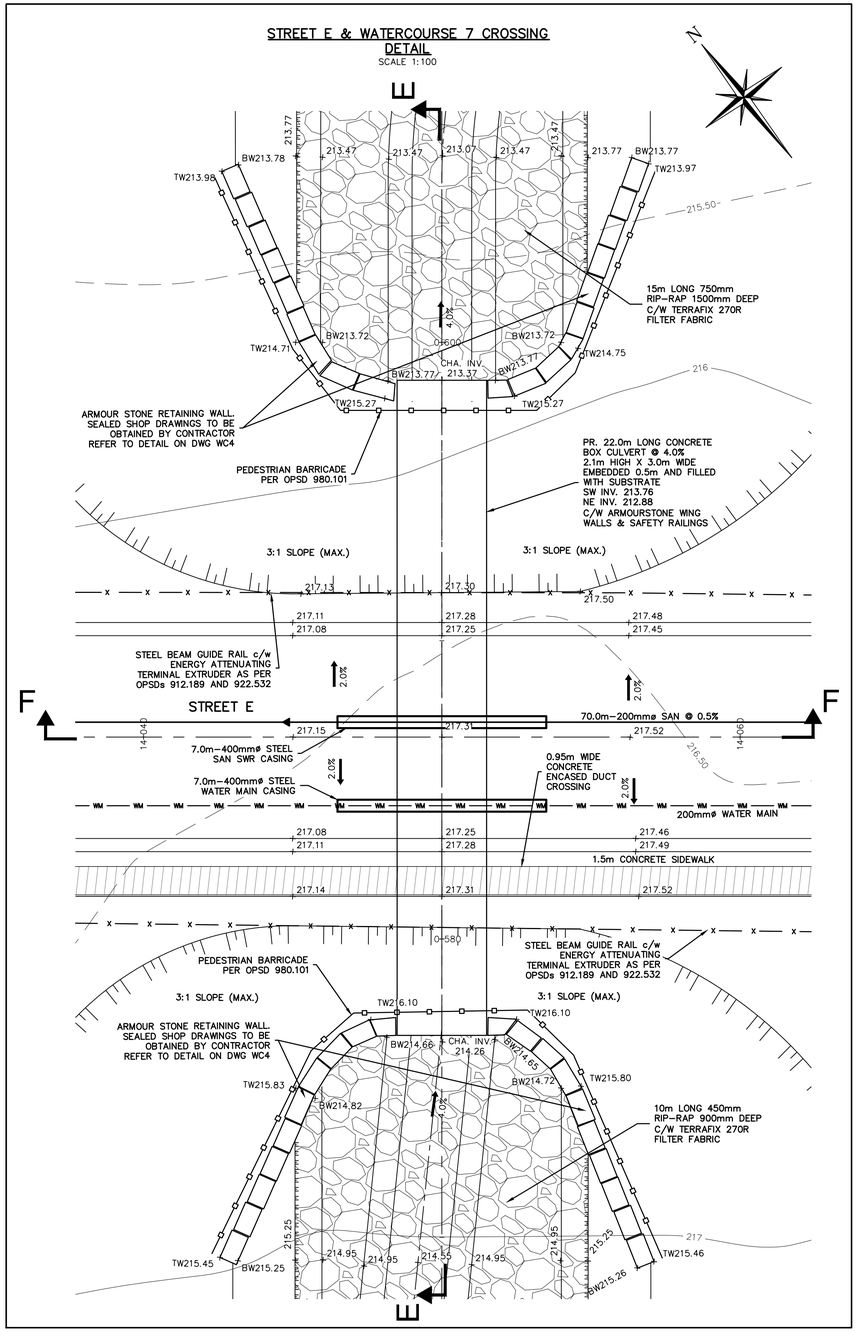
Drawing
PLAN & PROFILE
STREET A & WATERCOURSE 7 CROSSING

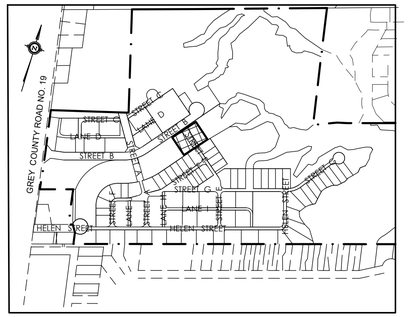
[redacted]

	B.B.	B.B.	721–3464
V=1:100 H=1:1000	DEC 10, 2021	J.E./R.W.	WC2

STREET E & WATERCOURSE 7 CROSSING DETAIL

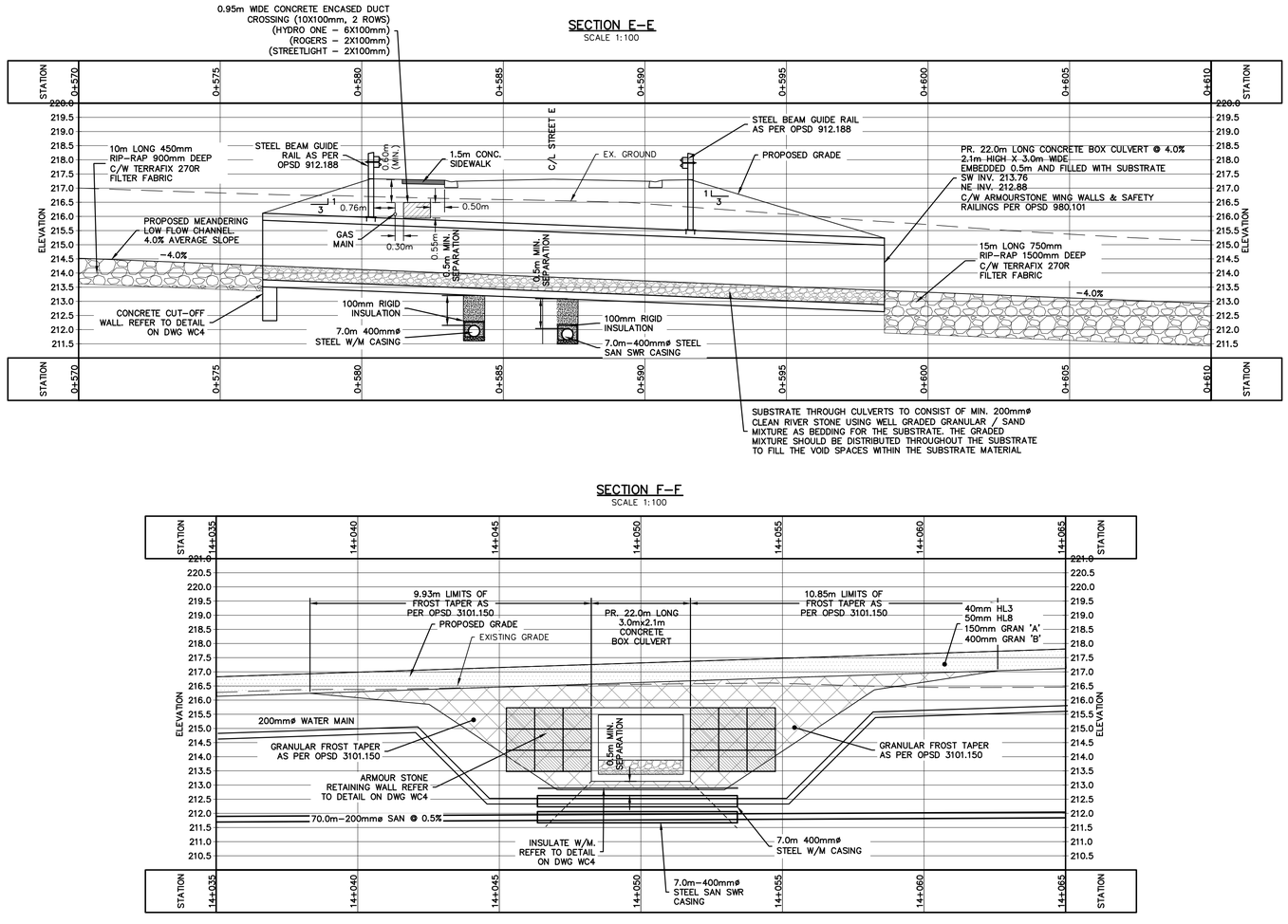
SCALE 1:100





SECTION E–E

SCALE 1:100



SECTION F–F

SCALE 1:100

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Engineer [redacted]

Engineer [redacted]

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TOWN OF THE BLUE MOUNTAINS

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PLAN & PROFILE
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Town [redacted]

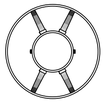
B.B.	B.B.		721–3464
V=1:100 H=1:1000	DEC 10, 2021	J.E./R.W.	WC3

CASING SPACERS

- CASCADE: CCS – 1320-8 (OR APPROVED EQUAL)

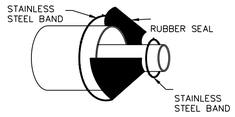
NOTES:

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF MATERIAL AND INSTALLATION METHODOLOGY FOR REVIEW AND APPROVAL.
2. ALL CASING SPACERS ARE TO BE MADE OF T-304 STAINLESS STEEL.
3. BEARING SURFACES (RUNNERS) SHALL BE ULTRA HIGH MOLECULAR WEIGHT POLYMER OR EQUIVALENT.
4. POSITIONING OF SPACERS ALONG THE WATERMAIN IS TO BE AS PER MANUFACTURERS SPECIFICATIONS.
5. POSITION OF WATERMAIN WITHIN LINER TO BE CENTERED AND RESTRAINED, SUFFICIENT ENOUGH TO PROVIDE NO LESS THAN 19mm (¾") CLEARANCE BETWEEN THE CASING PIPE AND THE OUTSIDE DIAMETER OF THE BELL.



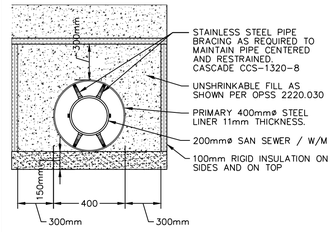
CENTERED & RESTRAINED

6. WATERMAIN SHALL BE RESTRAINED LATERALLY FOR THE ENTIRE LENGTH OF THE LINER PLUS ONE FULL PIPE LENGTH BEYOND END OF CASING.
7. LINER TO BE SEALED USING WRAP AROUND RUBBER ENDS COMPLETE WITH STAINLESS STEEL (T-304) BANDING.



200mmø SAN SEWER AND 200mmø W/M STEEL CASING DETAIL

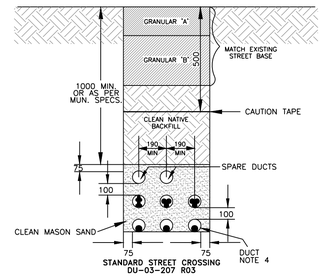
N.T.S.



CHANNEL TO BE FINISHED WITH MINIMUM 150mm TOPSOIL AND SEED MIXES PER THE LANDSCAPE DRAWINGS BY CROZIER (UNDER SEPARATE COVER)

TYPICAL DUCT BANK ROAD CROSSING DETAIL

NTS, DIMENSIONS SHOWN IN MILLIMETRES (mm)

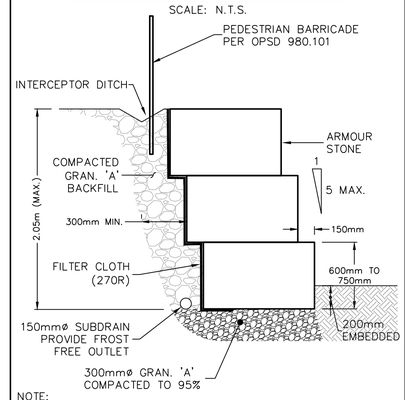


STANDARD STREET CROSSING DU-03-207 R03

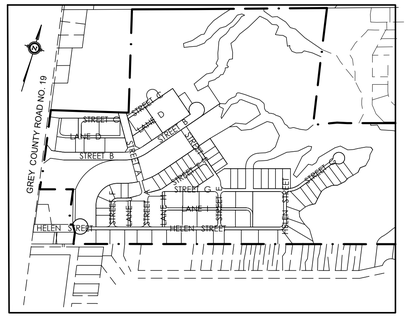
NOTES:
1. ALL DIMENSIONS ARE IN mm UNLESS STATED OTHERWISE.
2. STREET CROSSING DUCTS TO BE INSTALLED AS PER MUNICIPAL SPECIFICATIONS TO A 1000mm MINIMUM DEPTH FROM FINAL GRADE. CENTER POINT TO BE ELEVATED TO PROVIDE 3% SLOPE TO EXTREMITIES.
3. BACKFILLING & COMPACTION SHALL BE AS PER MUNICIPAL SPECIFICATIONS, COMPACTION SHALL BE A MINIMUM OF 95% STANDARD PROCTOR DENSITY.
4. IF TRENCH BOTTOM IS NOT LEVELED, FREE OF STONES & SHARP OBJECTS, MASON SAND SHALL BE PLACED IN THE TRENCH BOTTOM BEFORE INSTALLING DUCTS.
5. PRIMARY CABLES SHALL BE IN THE LOWER DUCTS AND SECONDARY CABLES IN THE UPPER DUCTS.
6. THIS DRAWING ALSO APPLIES TO CABLES INSTALLED ACROSS DRIVEWAYS IN INDUSTRIAL & COMMERCIAL SUBDIVISIONS AND UNDER PAVED PARKING AREAS.
7. IN CASE OF ABSENCE OF SECONDARY CABLES IN THE TRENCH, THE PRIMARY CABLES CAN BE PLACED IN THE MIDDLE LEVEL DUCTS.

TYPICAL ARMOUR STONE DETAIL

SCALE: N.T.S.

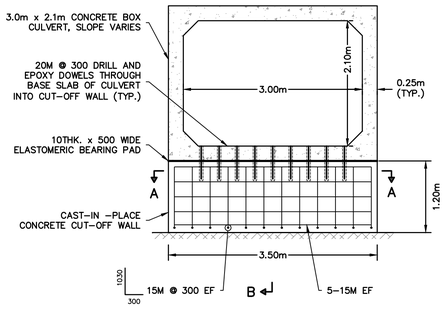


NOTE:
CONTRACTOR TO PROVIDE SEALED DRAWINGS WITH ENGINEERED STAMP FOR ALL WALL HEIGHTS EXCEEDING 0.9m

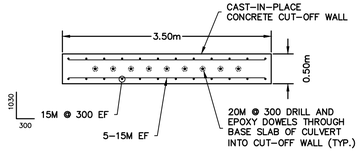


CUT-OFF WALL DETAIL

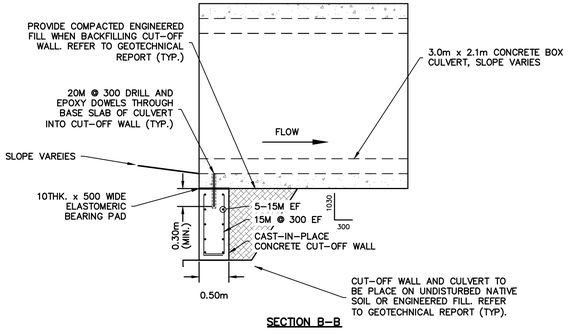
SCALE 1:50



INLET/OUTLET ELEVATION



SECTION A-A

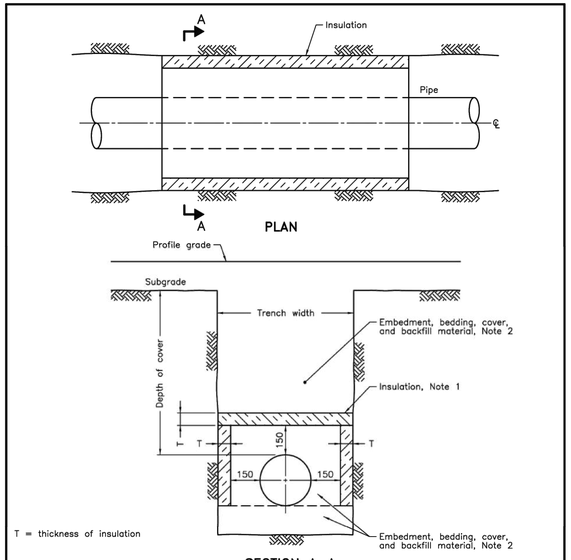


SECTION B-B

NOTE:
CONTRACTOR TO AVOID REBAR WITHIN BOX CULVERT WHILE DRILLING HOLES TO INSTALL DOWELS. IF REBAR IS ENCOUNTERED DURING DRILLING, HOLE TO BE RELOCATED TO AVOID REBAR. EXPOSED REBAR IN ABANDONED HOLE TO BE PAINTED AND HOLE TO BE EPOXY FILLED.

GENERAL CULVERT NOTES:
1. REFER TO SITE GEOTECHNICAL REPORT PREPARED BY TERRAPROBE DATED JULY 4, 2011.
2. ALLOWABLE (SLS) SOIL BEARING CAPACITY OF 200kPa (SLS) (TERRAPROBE JULY 4, 2011)
3. BEARING SURFACE TO BE INSPECTED AND APPROVED BY SITE GEOTECHNICAL ENGINEER PRIOR TO FORMING AND POURING CONCRETE
4. REINFORCING BARS TO CSA GRADE G30.18 400R U.N.O CONTRACTOR TO PROVIDE REBAR SHOP DRAWINGS PRIOR TO FABRICATION.
5. CLEAR COVER TO REINFORCING TO BE;
   i) 50mm WHEN IN CONTACT WITH FORMS
   ii) 75mm WHEN IN CONTACT WITH GROUND (U.N.O)
6. ALL CONCRETE SHALL CONFORM TO A23.1-04. 28-DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 30MPa U.N.O EXPOSURE CLASS OF CONCRETE TO BE CLASS F-1.
7. DESIGN IN ACCORDANCE WITH THE CANADIAN HIGHWAY BRIDGE DESIGN CODE (CAN/CSA-S6-19)
8. MINIMUM SPLICE LENGTH – 650mm, MINIMUM EMBEDMENT – 550mm UNLESS OTHERWISE NOTED

REQUIREMENTS FOR THE CULVERT SUPPLIER
1. PROVIDE SHOP DRAWING STAMPED BY AN ENGINEER LICENSED IN THE PROVINCE OF ONTARIO FOR REVIEW. CONTRACTOR TO PROVIDE COPIES OF ALL SHOP DRAWINGS TO TOWN AND ENGINEER FOR THEIR REVIEW & RECORDS
2. CULVERT STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH THE CANADIAN HIGHWAY BRIDGE DESIGN CODE (CHBDC) (CAN/CSA-S6-19) FOR CL-625-ONT LOADING.
3. ENSURE THAT THE SHOP DRAWINGS ARE SPECIFIC TO THIS CONTRACT, AND REFERENCED TO CFCA PROJECT No. 721-3464, AND NOT A "STOCK ITEM". SHOP DRAWINGS SHALL INCLUDE ALL INFORMATION AS REQUESTED ON THE CONTRACT DRAWINGS.
4. ENSURE THAT SHOP DRAWINGS SHOW AND SPECIFY ALL JOINT FILLER, SEALS AND COMPOUNDS, GROUT, AND GEOTEXTILE INSTALLATIONS AND APPLICATIONS.



SECTION A-A
TYPICAL PIPE INSULATION DETAIL

NOTES:
1 The insulation material shall be extruded polystyrene according to OPSS 1605 with a minimum compressive strength of 275 kPa.
2 Pipe embedment or bedding, cover, and backfill shall be according to:
   a) Flexible OPSD 802.010, 802.013, 802.020, and 802.023.
   b) Rigid – OPSD 802.030, 802.031, 802.032, 802.033, 802.050, 802.051, 802.052, and 802.053.
A Minimum insulation thickness shall be 50mm.
B Joints shall be staggered for multiple insulation sheets.
C This OPSD is to be read in conjunction with OPSD 3090.100 and 3090.101.
D All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2020	Rev	1
INSULATION FOR SEWERS AND WATERMAINS IN SHALLOW TRENCHES			
	OPSD 1109.030		

GENERAL CONSTRUCTION SCHEDULE
1. IN STREAM WORKS TO COMPLY WITH GSCA/DFO FISHERY TIMING GUIDELINES AND ASSOCIATED PERMITTING.
2. MAINTAIN TEMPORARY BY-PASS CULVERTS AND OVERLAND SPILL ROUTE PRIOR TO ANY EXCAVATION.
3. COMPLETE ASSOCIATED SEDIMENT CONTROLS, CULVERT AND UNDERGROUND SERVICES ENSURING WORKING IN THE DRY AT ALL TIMES.

GENERAL NOTES
1. ALL WORK TO BE PERFORMED IN DRY DEWATERED CONDITIONS USING COFFER DAMS AND TEMPORARY CULVERTS.
2. ALL SEDIMENT & EROSION CONTROL FACILITIES AND WORKS ARE TO BE CONSTRUCTED AND IN PLACE TO THE APPROVAL OF THE SITE ENGINEER PRIOR TO EXCAVATION WORKS COMMENCING.
3. ALL TEMPORARY SOIL OR DIRT TO BE STOCKPILED PER DESIGNATED AREAS.
4. THE SEDIMENT & EROSION CONTROLS SPECIFIED HEREIN DO NOT NECESSARILY CONSTITUTE ALL MEASURES REQUIRED GIVEN FIELD CONDITIONS. CONTRACTOR TO PROVIDE ANY SUPPLEMENTARY SEDIMENT & EROSION CONTROL MEASURES AS REQUIRED TO ENSURE NO RELEASE OF DELETERIOUS SUBSTANCES TO WATERCOURSE.
5. ALL IN-WATER ACTIVITIES MUST OCCUR BETWEEN JULY 1ST TO MARCH 31ST (WARMWATER TIMING WINDOW PER MNR).
6. FISH STRANDED IN TEMPORARY IN-WATER WORK ZONES WILL BE REMOVED AND RELOCATED BY A QUALIFIED FISHERIES SPECIALIST.
7. STOCKPILES AND CONSTRUCTION RELATED MATERIALS TO BE PROPERTY CONTAINED (SILT FENCING) AND SEPARATED A MINIMUM OF 30m FROM ANY WATERBODY.
8. NO STORAGE, MAINTENANCE OR REFUELLING OF EQUIPMENT IS ALLOWED WITHIN 30m OF AN EXISTING WATERCOURSE.
9. A SPILL RESPONSE PLAN AND THE APPROPRIATE CONTINGENCY MATERIALS TO ABSORB OR CONTAIN ANY PETROLEUM PRODUCTS THAT MAY BE ACCIDENTALLY DISCHARGED TO BE ON SITE AT ALL TIMES.

GENERAL CULVERT NOTES
1. FOOTING DETAILS (DIMENSIONS & REINFORCING) FOR MUNICIPAL APPROVAL PROCESS ONLY. ACTUAL SIZE OF FOOTINGS AND REINFORCING AS PER DESIGN BY CONTRACTOR.
2. DESIGN IN ACCORDANCE WITH THE CANADIAN HIGHWAY BRIDGE DESIGN CODE (CAN/CSA-S6-06).
3. CLASS OF CAST-IN-PLACE CONCRETE = 30 MPa.
4. CLEAR COVER TO REINFORCING:
   FOOTINGS = 100±25
   DISTRIBUTION SLAB = AS NOTED ON DWG.
5. BAR MARKS WITH SUFFIX 'C' DENOTE COATED BARS.
6. REINFORCING BARS SHALL BE GRADE 400 MPa.
7. CONTRACTOR TO PROVIDE MIN. 0.75m GRANULAR ABOVE CULVERT STRUCTURE DURING CONSTRUCTION.

REQUIREMENTS FOR THE CONTRACTOR
1. PROVIDE STAMPED SHOP DRAWINGS INDICATING THAT THE CULVERT STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE CANADIAN HIGHWAY BRIDGE DESIGN CODE (CHBDC) (CAN/CSA-S6-06). CONTRACTOR TO ALSO PROVIDE COPIES OF ALL SHOP DRAWINGS TO THE TOWN FOR THEIR RECORDS.
2. SUBMISSION SHALL INCLUDE DETAILS ON REACTION LOADS, BOTH HORIZONTAL & VERTICAL, TO RE RESISTED BY FOUNDATION AS WELL AS DETAILS ON PROPOSED ANCHORAGE FOR CULVERT & FOOTINGS.
3. ENSURE THAT THE SHOP DRAWINGS ARE SPECIFIC TO THIS CONTRACT, AND REFERENCED TO CFCA PROJECT No. 721-3464, AND NOT A "STOCK ITEM".
4. ENSURE THAT SHOP DRAWINGS SHOW AND SPECIFY ALL JOINT FILLERS, SEALS AND COMPOUNDS, GROUT, AND GEOTEXTILE INSTALLATIONS AND APPLICATIONS.
5. CONTRACTOR RESPONSIBLE FOR DESIGN AND DETAILING OF CONCRETE HEADWALLS (CUT OFF WALL) INCLUDING ANCHORAGE DETAILS TO CULVERT. SEALED & SIGNED SHOP DRAWINGS TO BE PROVIDED.

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2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, AND DATUMS ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO THIS OFFICE PRIOR TO CONSTRUCTION.
3. THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT.
4. DO NOT SCALE THE DRAWINGS.
5. ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

TEMPORARY BENCHMARKS

SBM#1-ELEVATION: 227.78
CONCRETE PIN IN HYDRO POLE AT SOUTH EAST CORNER OF GREY ROAD No. 19 AND STREET B INTERSECTION.

No.	ISSUE / REVISION	DATE: MM/DD/YYYY
3	THIRD SUBMISSION	12/22/2022
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10	ISSUED FOR SEVENTH SUBMISSION	08/20/2024

Engineer [redacted]

Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Town

Drawing
WATERCOURSE CROSSING DETAILS AND NOTES

[redacted]

B.B.	B.B.	721-3464
V=1:100 H=1:1000	DEC 10, 2021	J.E./R.W.	WC4

CONSTRUCTION NOTES:

GENERAL

1. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED. SEDIMENT AND EROSION CONTROL MEASURES THAT ARE DESIGNED TO CONTROL RUNOFF FROM SPECIFIC AREAS MUST BE INSTALLED PRIOR TO ANY DISTURBANCE TO SITE.
2. THE CONTRACTOR MAY CONSIDER ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES. SUCH MEASURES MUST BE PRESENTED IN WRITING FOR APPROVAL OF THE CONTRACT ADMINISTRATOR AND THE TOWN.
3. THE CONTRACTOR SHALL HAVE MATERIALS AVAILABLE ON-SITE TO REPAIR SEDIMENT AND EROSION CONTROL MEASURES IN THE EVENT OF UNFORESEEN CONDITIONS: HIGHWATER, EXTREME RAINFALL EVENTS, ETC.
4. MUD MATS TO BE CONSTRUCTED AT SITE ACCESS POINTS FROM GREY ROAD 19 AND HELEN STREET.
5. NO MAINTENANCE, REPAIR WORK OR CONSTRUCTION EQUIPMENT IS ALLOWED WITHIN 30m OF AN EXISTING WATERCOURSE EXCEPT AS NOTED.
6. TEMPORARY TOPSOIL STOCKPILES ARE TO BE A MAXIMUM OF 5m HIGH WITH MAXIMUM 2:1 SIDE SLOPE AND BE PROVIDED WITH THE NECESSARY SEDIMENT AND EROSION CONTROL FEATURES PRIOR TO CONSTRUCTION. IF THE TOPSOIL STOCK PILES ARE TO REMAIN FOR A PERIOD LONGER THAN 30 DAYS, STOCKPILES SHALL BE SEEDED.
7. CONTRACTOR TO ENSURE POSITIVE DRAINAGE THROUGH SITE SUCH THAT NO UPSTREAM OR DOWNSTREAM IMPACT OCCURS DURING CONSTRUCTION ACTIVITIES.
8. THE CONTRACTOR WILL BE RESPONSIBLE TO CLEAN ALL ADJACENT ROADWAYS AS REQUIRED OR AS DIRECTED BY SITE ENGINEER OR TOWN.

MAINTENANCE & OPERATION OF SEDIMENT CONTROLS

A) SILT FENCE
1. SILT FENCE MUST BE INSPECTED WEEKLY FOR RIPS OR TEARS, BROKEN STAKES, BLOW-OUTS AND ACCUMULATION OF SEDIMENT.
2. SILT FENCE MUST BE INSPECTED IMMEDIATELY AFTER EVERY RAIN STORM EVENT OR AS DIRECTED BY SITE ENGINEER.
3. SEDIMENT DEPOSITS MUST BE REMOVED FROM SILT FENCE WHEN ACCUMULATION REACHES 50% OF THE HEIGHT OF THE FENCE.
4. ALL SILT FENCES MUST BE REMOVED ONLY WHEN THE ENTIRE SITE IS STABILIZED AND AS DIRECTED BY THE SITE ENGINEER.
5. SILT FENCE TO BE INSTALLED ALONG PROPERTY LINE AND ALONG LIMITS OF PROTECTED AREAS.

B) ROCK FLOW CHECK
1. REMOVE ACCUMULATED SEDIMENT UPSTREAM OF THE CHECK DAM IF GREATER THAN ONE HALF OF DAM HEIGHT.
2. SILT REMOVAL MUST BE UNDERTAKEN WITH CARE TO MINIMIZE DOWN STREAM SEDIMENTATION IN SWALE OR DITCH.
3. ROCK CHECK DAM AND ALL ACCUMULATED SEDIMENT MUST BE REMOVED WITH CARE ONCE THE CONSTRUCTION SITE IS STABILIZED AND AS DIRECTED BY THE SITE ENGINEER.

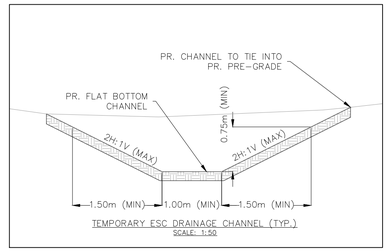
C) MUD MAT
1. GEOTEXTILE (TERRAFIX 270R OR APPROVED EQUAL) TO BE PLACED AS SEPARATION BARRIER BETWEEN EXISTING GROUND AND CLEAR STONE.
2. INSPECT MUD MAT WEEKLY TO ASSESS CONDITION AND TO ENSURE OPERATION EFFICIENCY.
3. SUPPLY AND PLACE ADDITIONAL STONE TO PREVENT MUD TRACKING AS DIRECTED BY SITE ENGINEER.
4. MUD MAT TO REMAIN IN PLACE UNTIL SITE IS STABILIZED OR AS DIRECTED BY SITE ENGINEER.

D) STRAW BALE CHECK DAM
1. STRAW BALES MUST BE INSPECTED AFTER EACH SIGNIFICANT RAINFALL OR AS DIRECTED BY THE SITE ENGINEER. NECESSARY REPAIRS SHOULD BE MADE PROMPTLY.
2. REMOVE ACCUMULATED SEDIMENT UPSTREAM OF BALES IF GREATER THAN ONE HALF OF DAM HEIGHT.
3. STRAW BALES TO REMAIN IN PLACE UNTIL CONSTRUCTION OF ROADWAYS AND ROADSIDE DITCHES HAVE BEEN FINISHED WITH TOPSOIL AND SOD OR AS DIRECTED BY SITE ENGINEER.

BEST CONSTRUCTION PRACTICES

IMPLEMENTATION OF BEST CONSTRUCTION PRACTICES WILL REDUCE THE POTENTIAL FOR SPILLS OR OTHER MATERIALS/EQUIPMENT ENTERING THE WATERCOURSE. THE FOLLOWING MEAURES WILL BE EMPLOYED:

1. ALL EQUIPMENT MAINTENANCE AND REFUELLING WILL BE CONTROLLED TO PREVENT DISCHARGE OF PETROLEUM PRODUCTS. VEHICULAR MAINTENANCE AND REFUELLING SHALL BE CONDUCTED AT LEAST 30m DISTANCE FROM THE WATERCOURSE AND ITS BANKS.
2. CONSTRUCTION MATERIAL , EXCESS MATERIAL, CONSTRUCTION DEBRIS AND EMPTY CONTAINERS WILL BE STORED AT LEAST 30m DISTANCE FROM THE WATERCOURSE AND ITS BANKS.
3. A "SPILL RESPONSE PLAN" AND THE APPROPRIATE CONTINGENCY MATERIALS TO ABSORB OR CONTAIN ANY PETROLEUM PRODUCTS THAT MAY BE ACCIDENTALLY DISCHARGES WILL BE ON SITE AT ALL TIMES



TEMPORARY ESC DRAINAGE CHANNEL (TYP.)
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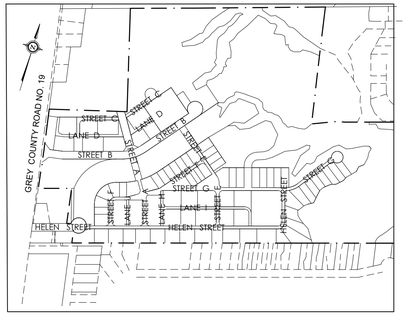

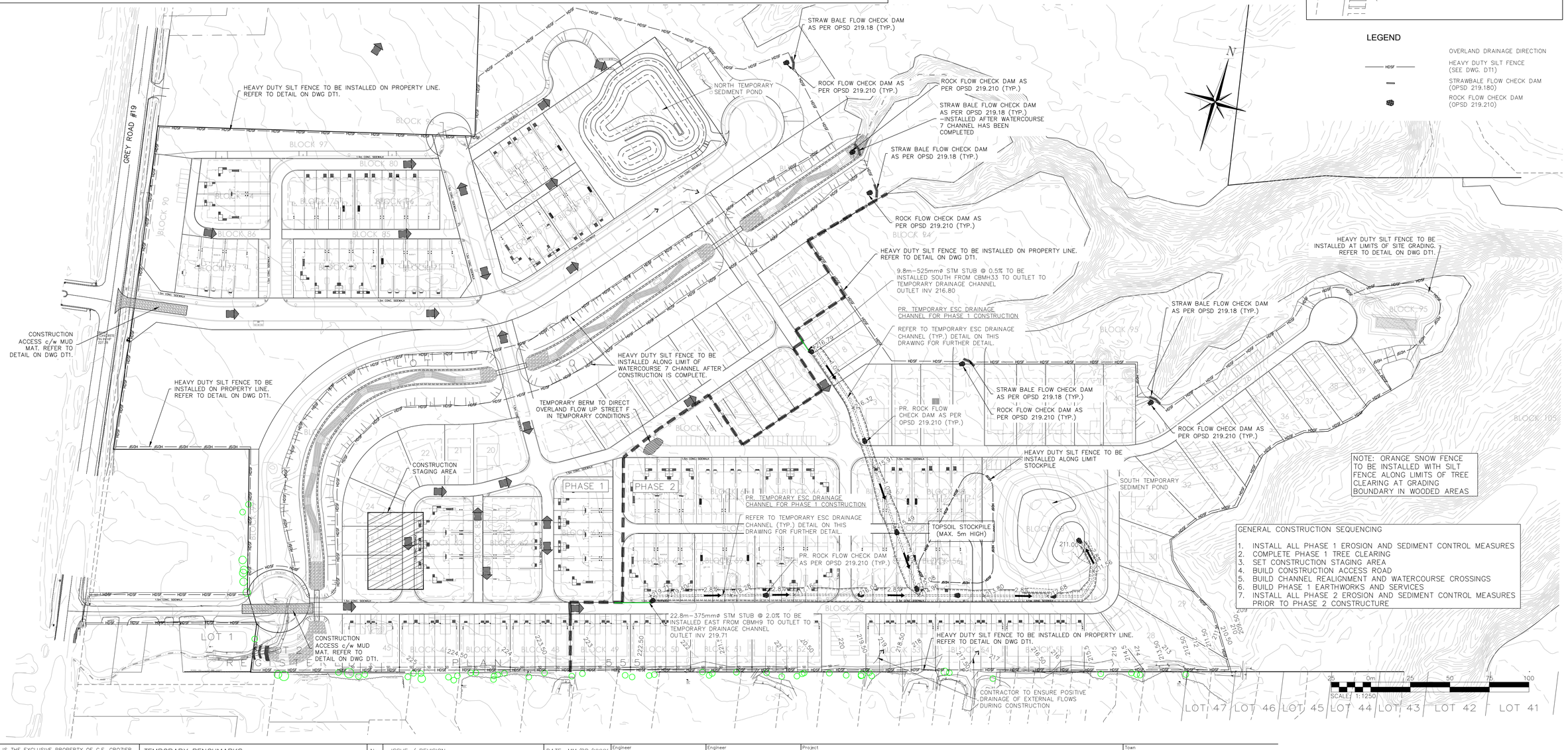

LEGEND

- OVERLAND DRAINAGE DIRECTION
- HDSF — HEAVY DUTY SILT FENCE (SEE DWG. DT1)
- STRAWBALE FLOW CHECK DAM (OPSD 219.180)
- ROCK FLOW CHECK DAM (OPSD 219.210)

NOTE: ORANGE SNOW FENCE TO BE INSTALLED WITH SILT FENCE ALONG LIMITS OF TREE CLEARING AT GRADING BOUNDARY IN WOODED AREAS

GENERAL CONSTRUCTION SEQUENCING

1. INSTALL ALL PHASE 1 EROSION AND SEDIMENT CONTROL MEASURES
2. COMPLETE PHASE 1 TREE CLEARING
3. SET CONSTRUCTION STAGING AREA
4. BUILD CONSTRUCTION ACCESS ROAD
5. BUILD CHANNEL REALIGNMENT AND WATERCOURSE CROSSINGS
6. BUILD PHASE 1 EARTHWORKS AND SERVICES
7. INSTALL ALL PHASE 2 EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO PHASE 2 CONSTRUCTURE

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Engineer [redacted]

Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

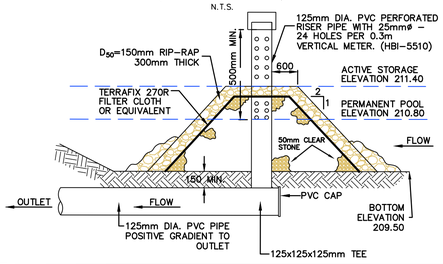
Drawing
EROSION AND SEDIMENT CONTROL PLAN

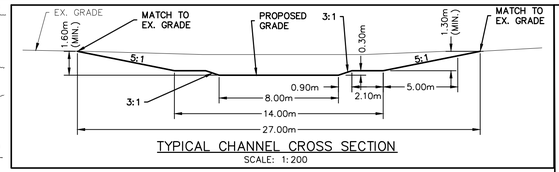
Town [redacted]

B.B.	B.B.		721-3464
1:1250	DEC 10, 2021	J.E./R.W.	SED1

TEMPORARY HICKENBOTTOM OUTLET (SOUTH POND)

N.T.S.





TYPICAL CHANNEL CROSS SECTION

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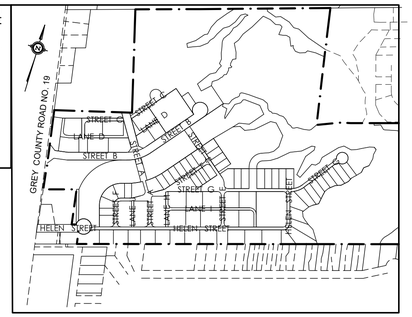

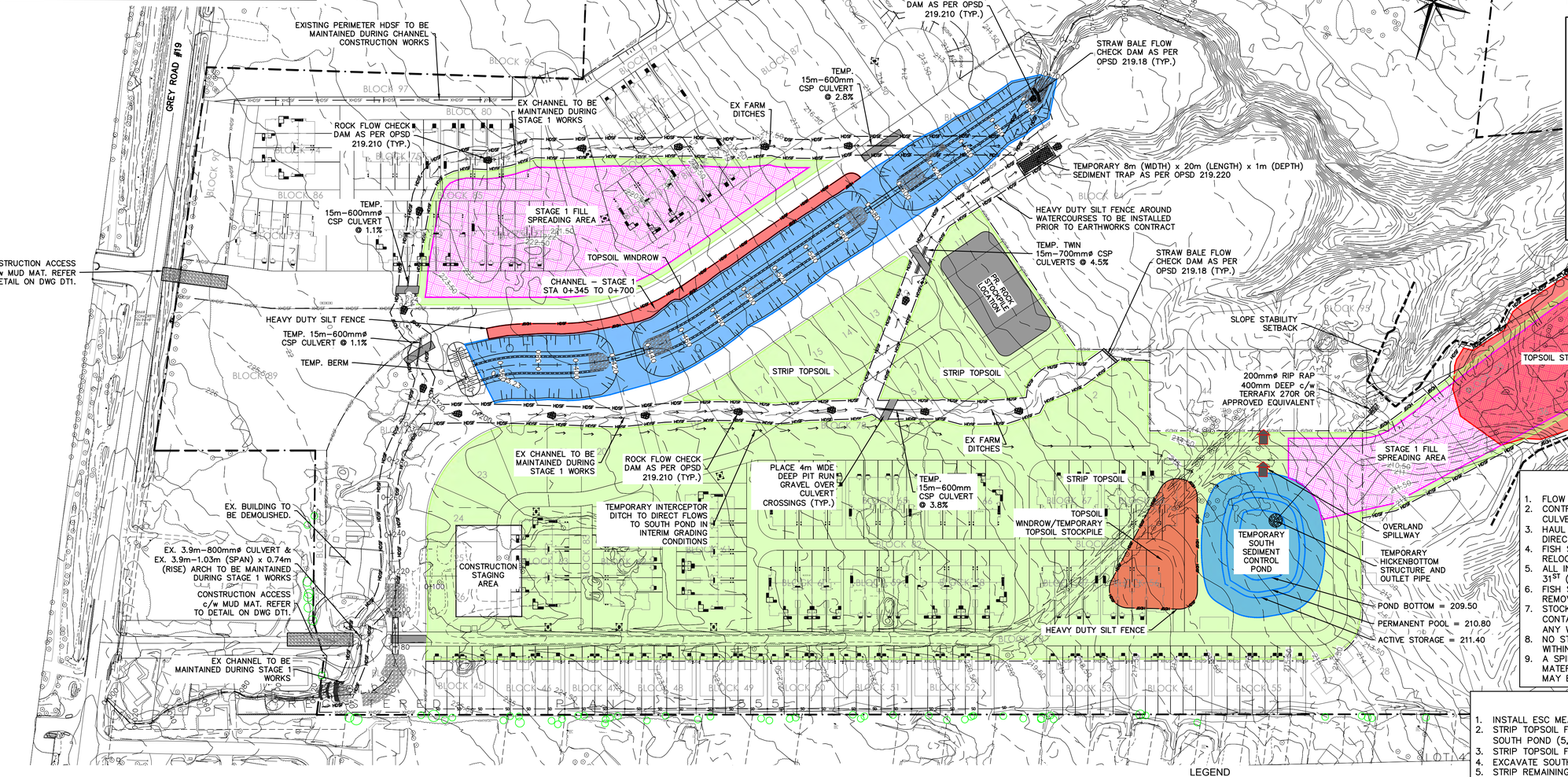

HATCHED AREAS LEGEND

- PROPOSED TOPSOIL STRIPPING AREA
- PROPOSED TOPSOIL STOCKPILE & WINDROW AREA
- PROPOSED EXCAVATION (CHANNEL & SWM POND)
- PROPOSED FILL SPREADING AREA
- PROPOSED FILL STOCKPILE

ALL FILL TO BE ENGINEERED UNDER DIRECTION OF A GEOTECHNICAL ENGINEER

PRE-GRADE NOTES

1. LOT PRE-GRADE = 0.70m
2. RIGHT OF WAY PRE-GRADE = 0.70m
3. POND PRE-GRADE = 0.50m.
4. CHANNEL BOTTOM PRE-GRADE = 0.15m
5. CHANNEL SIDE SLOPE PRE-GRADE = 0.50m

GENERAL NOTES

1. FLOW TO BE SWITCHED OVER IN THE WINDOW OF JULY 15 – MARCH 15.
2. CONTRACTOR TO CROSS WATERCOURSES AT PROPOSED TEMPORARY CULVERTS c/w 400mm DEEP PIT RUN GRAVEL OVER CULVERTS.
3. HAUL ROUTES SHALL INCLUDE CUT OFF SWALES ON UP STREAM SIDE DIRECTED TO SEDIMENT BASINS
4. FISH SALVAGE TO BE COMPLETED IN EXISTING CHANNEL. FISH TO BE RELOCATED TO NEW REALIGNED WATERCOURSE.
5. ALL IN-WATER ACTIVITIES MUST OCCUR BETWEEN JULY 1ST TO MARCH 31ST (WARMWATER TIMING WINDOW PER MNR).
6. FISH STRANDED IN TEMPORARY IN-WATER WORK ZONES WILL BE REMOVED AND RELOCATED BY A QUALIFIED FISHERIES SPECIALIST.
7. STOCKPILES AND CONSTRUCTION RELATED MATERIALS TO BE PROPERTY CONTAINED (SILT FENCING) AND SEPARATED A MINIMUM OF 30M FROM ANY WATERBODY.
8. NO STORAGE, MAINTENANCE OR REFUELLING OF EQUIPMENT IS ALLOWED WITHIN 30m OF AN EXISTING WATERCOURSE.
9. A SPILL RESPONSE PLAN AND THE APPROPRIATE CONTINGENCY MATERIALS TO ABSORB OR CONTAIN ANY PETROLEUM PRODUCTS THAT MAY BE ACCIDENTALLY DISCHARGED TO BE ON SITE AT ALL TIMES.

CHANNEL STAGE 1 – PHASING NOTES

1. INSTALL ESC MEASURES
2. STRIP TOPSOIL FROM STREET G AND PLACE IN TEMPORARY STOCKPILE NEAR SOUTH POND (5,030m³).
3. STRIP TOPSOIL FROM SOUTH POND AND PLACE IN WINDROW (1,440m³).
4. EXCAVATE SOUTH POND, PLACE FILL IN STREET G CUL-DE-SAC AREA (14,000m³).
5. STRIP REMAINING STAGE 1 TOPSOIL AND PLACE IN TOPSOIL STOCKPILE #1 AND/OR EXPORT TOPSOIL OFFSITE (24,420m³).
6. WINDROW TOPSOIL FROM CHANNEL (5,000m³).
7. EXCAVATE CHANNEL STAGE 2 AND PLACE FILL IN STAGE 1 FILL SPREADING AREAS (9,000m³).
8. PLACE WINDROWED TOPSOIL BACK INTO CHANNEL (5,000m³).
9. PLACE WINDROWED TOPSOIL BACK IN TO SOUTH POND (1,440m³).
10. GRADE LOW FLOW CHANNEL (BY OTHERS).

LEGEND

- OVERLAND DRAINAGE DIRECTION
- HDSF — HEAVY DUTY SILT FENCE (PHASE 1) (OPSD 219.130)
- STRAWBALE FLOW CHECK DAM (OPSD 219.180)
- ROCK FLOW CHECK DAM (OPSD 219.210)

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TEMPORARY BENCHMARKS

SBM#1–ELEVATION: 227.78
CONCRETE PIN IN HYDRO POLE AT SOUTH EAST CORNER OF GREY ROAD No. 19 AND STREET B INTERSECTION.

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Engineer [redacted]

Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

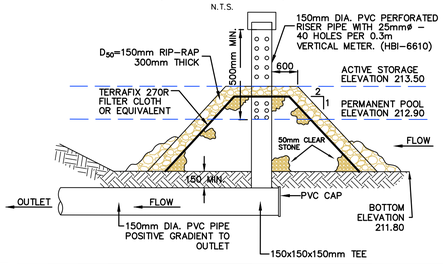
Town [redacted]

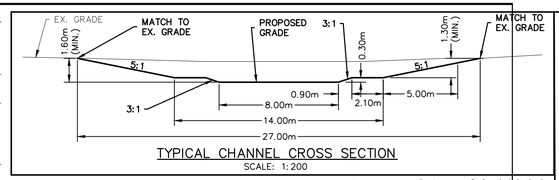
Drawing
ESC, EARTHWORKS, SITE COORDINATION & CONSTRUCTION ACCESS PLAN – STAGE 1

B.B.	B.B.	721-3464
1:1250	DEC 10, 2021	J.E./R.W. SED2

TEMPORARY HICKENBOTTOM OUTLET (NORTH POND)

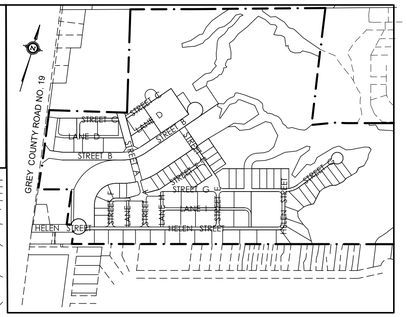
N.T.S.

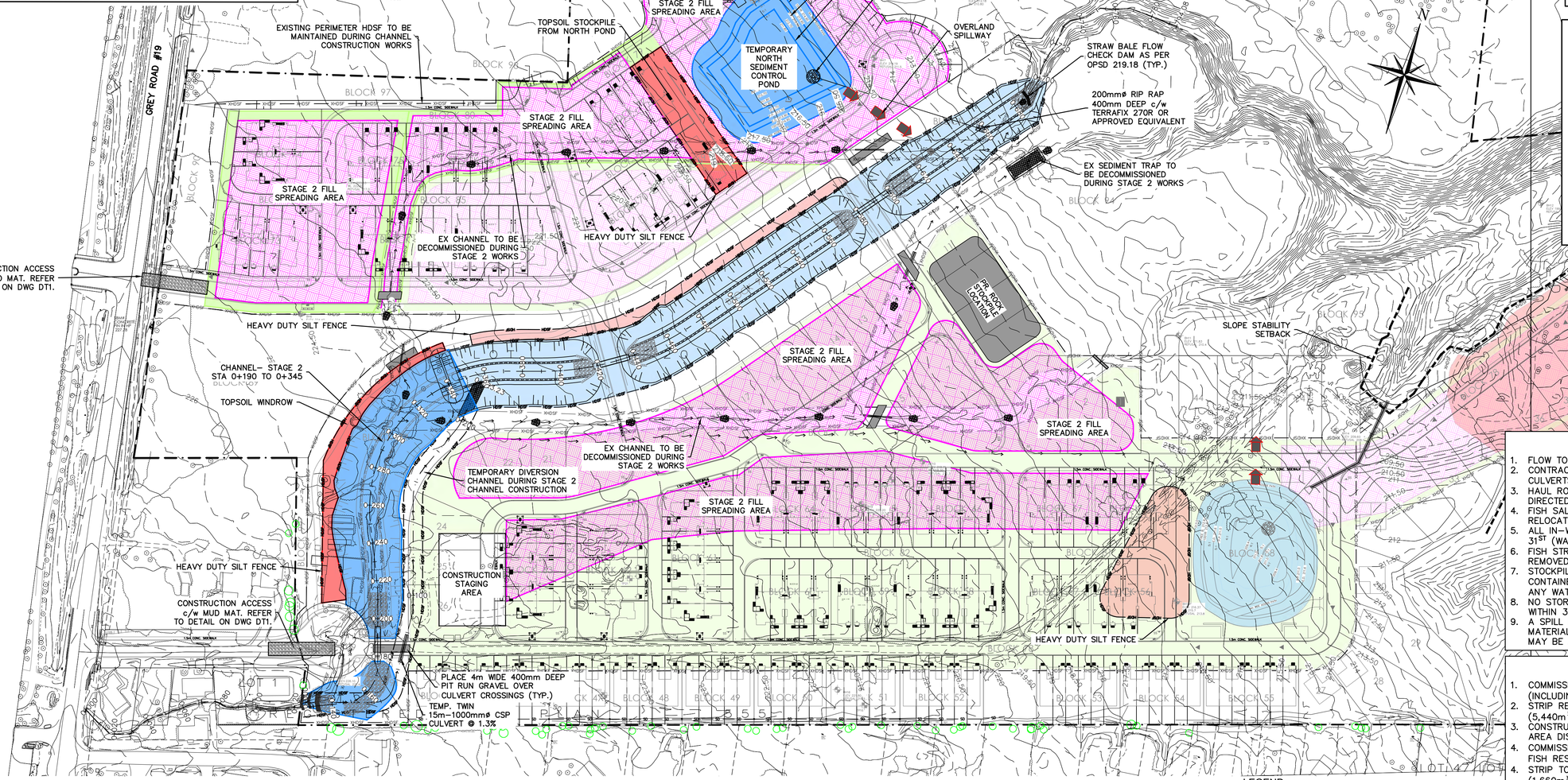




TYPICAL CHANNEL CROSS SECTION

SCALE: 1:200





HATCHED AREAS LEGEND

- PROPOSED TOPSOIL STRIPPING AREA
- PROPOSED TOPSOIL STOCKPILE & WINDROW AREA
- PROPOSED EXCAVATION (CHANNEL & SWM POND)
- PROPOSED FILL SPREADING AREA
- PROPOSED FILL STOCKPILE

PRE-GRADE NOTES

1. LOT PRE-GRADE = 0.70m
2. RIGHT OF WAY PRE-GRADE = 0.70m
3. POND PRE-GRADE = 0.50m.
4. CHANNEL BOTTOM PRE-GRADE = 0.15m
5. CHANNEL SIDE SLOPE PRE-GRADE = 0.50m

GENERAL NOTES

1. FLOW TO BE SWITCHED OVER IN THE WINDOW OF JULY 15 – MARCH 15.
2. CONTRACTOR TO CROSS WATERCOURSES AT PROPOSED TEMPORARY CULVERTS c/w 400mm DEEP PIT RUN GRAVEL OVER CULVERTS.
3. HAUL ROUTES SHALL INCLUDE CUT OFF SWALES ON UP STREAM SIDE DIRECTED TO SEDIMENT BASINS
4. FISH SALVAGE TO BE COMPLETED IN EXISTING CHANNEL. FISH TO BE RELOCATED TO NEW REALIGNED WATERCOURSE.
5. ALL IN–WATER ACTIVITIES MUST OCCUR BETWEEN JULY 1ST TO MARCH 31ST (WARMWATER TIMING WINDOW PER MNR).
6. FISH STRANDED IN TEMPORARY IN–WATER WORK ZONES WILL BE REMOVED AND RELOCATED BY A QUALIFIED FISHERIES SPECIALIST.
7. STOCKPILES AND CONSTRUCTION RELATED MATERIALS TO BE PROPERTY CONTAINED (SILT FENCING) AND SEPARATED A MINIMUM OF 30M FROM ANY WATERBODY.
8. NO STORAGE, MAINTENANCE OR REFUELLING OF EQUIPMENT IS ALLOWED WITHIN 30m OF AN EXISTING WATERCOURSE.
9. A SPILL RESPONSE PLAN AND THE APPROPRIATE CONTINGENCY MATERIALS TO ABSORB OR CONTAIN ANY PETROLEUM PRODUCTS THAT MAY BE ACCIDENTALLY DISCHARGED TO BE ON SITE AT ALL TIMES.

STAGE 2 – PHASING NOTES

1. COMMISSION CHANNEL–1 THEN DECOMMISSION EXISTING CHANNELS (INCLUDING FISH RESCUE).
2. STRIP REMAINING TOPSOIL AND ADD TO TOPSOIL STOCKPILE #1 (5,440m³).
3. CONSTRUCT TEMPORARY WATERCOURSE DIVERSION FOR UPSTREAM AREA DISCHARGING INTO UPSTREAM END OF NEW REALIGNED CHANNEL.
4. COMMISSION TEMPORARY CHANNEL AND FLIP FLOWS OVER (INCLUDING FISH RESCUE).
4. STRIP TOPSOIL FROM CHANNEL–2 (1,960m³) AND NORTH POND (1,660m³) INTO WINDROWS .
5. EXCAVATE CHANNEL–2 AND NORTH POND AND PLACE FILL IN STAGE 2 FILL SPREADING AREAS (24,000m³).
6. PLACE WINDROWED TOPSOIL IN CHANNEL–2 (1,960m³) AND NORTH POND (1,660m³).
7. LOW FLOW CHANNEL GRADING (BY OTHERS).
8. COMMISSION CHANNEL–2 AND DECOMMISSION TEMPORARY DIVERSION CHANNEL (INCLUDING FISH RESCUE).

LEGEND

- OVERLAND DRAINAGE DIRECTION
- HDSF — HEAVY DUTY SILT FENCE (PHASE 1) (SEE DWG. DT1)
- STRAWBALE FLOW CHECK DAM (OPSD 219.180)
- ROCK FLOW CHECK DAM (OPSD 219.210)

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TEMPORARY BENCHMARKS

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Engineer [redacted]

Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
ESC, EARTHWORKS, SITE COORDINATION & CONSTRUCTION ACCESS PLAN – STAGE 2

Town [redacted]

B.B.	B.B.	721–3464
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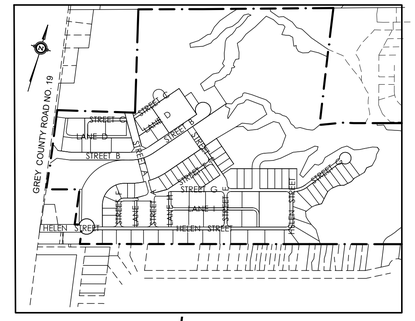
REGISTERED PLAN 529



TEMPORARY DEAD END BARRICADE (OPSD 973.130)

GREY ROAD #19

HORIZ. CURVE A1
R = 13.8m
Δ = 90.00°
C = 19.45m
EC = 7+090.70
BC = 7+112.30

HORIZ. CURVE A1
R = 12.0m
Δ = 89.65°
C = 16.92m
EC = 6+043.70
BC = 6+062.48

HORIZ. CURVE A1
R = 100.0m
Δ = 7.68°
C = 13.39m
EC = 0+067.99
BC = 0+081.40

HORIZ. CURVE A1
R = 100.0m
Δ = 34.17°
C = 58.76m
EC = 0+227.42
BC = 0+287.07

HORIZ. CURVE A1
R = 13.7m
Δ = 19.10°
C = 4.56m
EC = 3+207.28
BC = 3+211.86

HORIZ. CURVE A1
R = 46.0m
Δ = 15.07°
C = 12.06m
EC = 3+115.08
BC = 3+127.17

HORIZ. CURVE A1
R = 13.7m
Δ = 89.99°
C = 19.44m
EC = 3+070.66
BC = 3+092.26

HORIZ. CURVE A1
R = 45.0m
Δ = 15.08°
C = 11.81m
EC = 10+239.19
BC = 10+251.03

HORIZ. CURVE A1
R = 13.7m
Δ = 55.83°
C = 12.87m
EC = 5+009.39
BC = 5+022.79

HORIZ. CURVE A1
R = 28.7m
Δ = 34.17°
C = 16.89m
EC = 14+175.22
BC = 14+192.36

HORIZ. CURVE A1
R = 13.7m
Δ = 90.00°
C = 19.45m
EC = 4+216.76
BC = 4+238.36

HORIZ. CURVE A1
R = 53.8m
Δ = 36.65°
C = 33.80m
EC = 5+313.76
BC = 5+348.15

HORIZ. CURVE A1
R = 13.7m
Δ = 90.00°
C = 19.45m
EC = 2+654.72
BC = 2+676.32

NORTH POND S.W.M.F.#2

SOUTH POND S.W.M.F.#1

BLOCK 89 — 3.0m WIDE GRANULAR PATH

BLOCK 90 — BLOCK 91 — BLOCK 92 — BLOCK 93 — BLOCK 94 — BLOCK 95 — BLOCK 96 — BLOCK 97 — BLOCK 98 — BLOCK 99

STREET A — STREET B — STREET C — STREET E — STREET F — STREET G — HELEN STREET

LANE D — LANE H — LANE I — LANE J

LOT 1 REGISTERED PLAN 555

SBM#1 CONCRETE PIN IN HYDRO POLE 227.78

PRE-SERVICING LEGEND
- EXTENT OF UNDERGROUND WORKS – 5m o/s FROM R.O.W./PROPERTY LINE
- EXTENT OF SURFACE WORKS – 10m o/s FROM R.O.W./PROPERTY LINE

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Engineer [redacted]

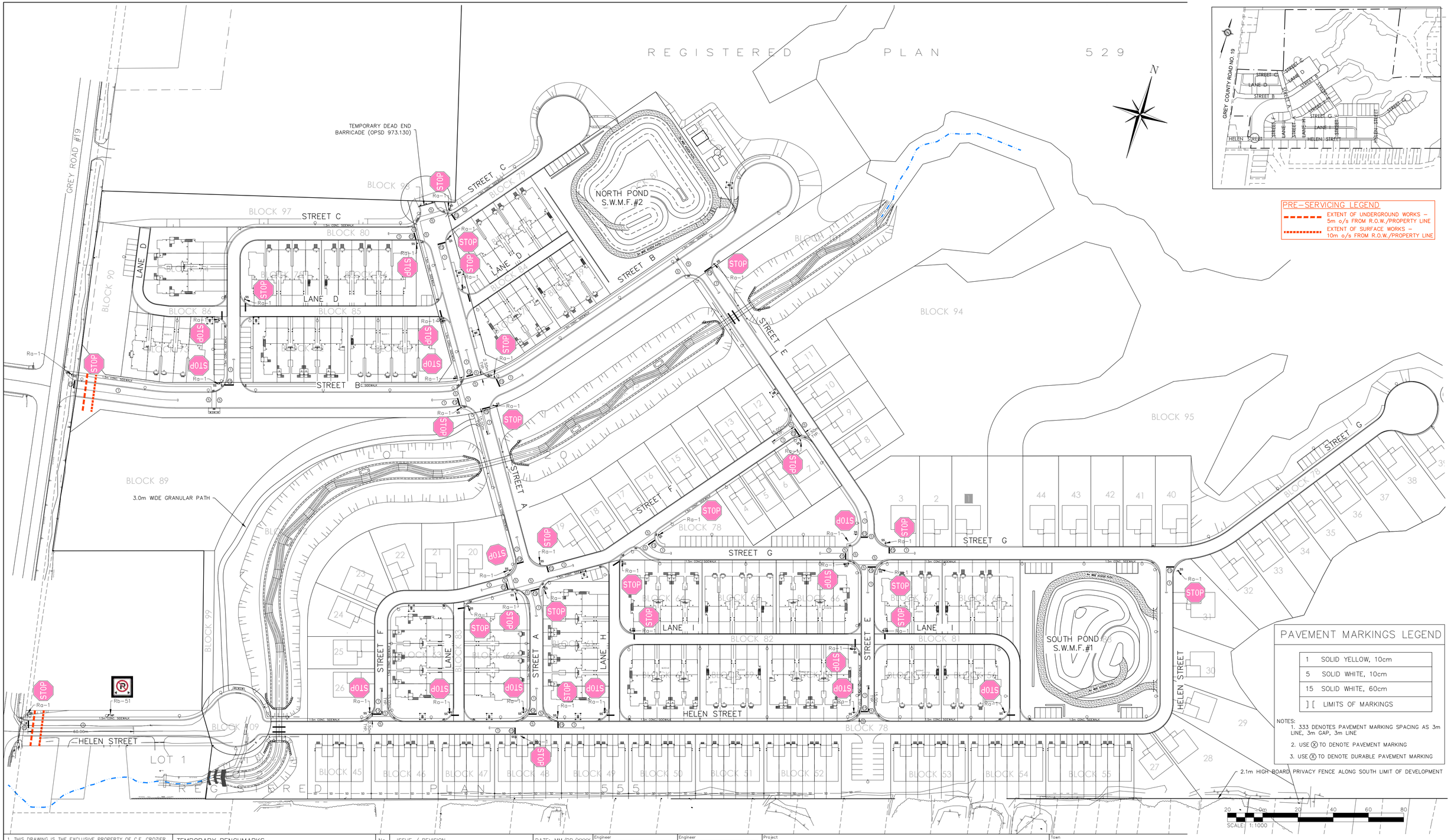
Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
GEOMETRIC ROAD DESIGN PLAN

Town [redacted]

B.B.	B.B.		721–3464
1:1000	DEC 10, 2021	J.E./R.W.	ROAD–1



PRE-SERVICING LEGEND

- EXTENT OF UNDERGROUND WORKS – 5m o/s FROM R.O.W./PROPERTY LINE
- EXTENT OF SURFACE WORKS – 10m o/s FROM R.O.W./PROPERTY LINE

PAVEMENT MARKINGS LEGEND

1	SOLID YELLOW, 10cm
5	SOLID WHITE, 10cm
15	SOLID WHITE, 60cm
] [	LIMITS OF MARKINGS

NOTES:
1. 333 DENOTES PAVEMENT MARKING SPACING AS 3m LINE, 3m GAP, 3m LINE
2. USE (X) TO DENOTE PAVEMENT MARKING
3. USE (X) TO DENOTE DURABLE PAVEMENT MARKING

SCALE: 1:1000

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Engineer [redacted]

Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
PAVEMENT MARKING AND SIGNAGE PLAN

Town [redacted]

B.B.	B.B.		721-3464
1:1000	DEC 10, 2021	J.E./R.W.	PM1

SEE SHEET CUP3

SBM#1
CONCRETE
PIN IN HP
227.78

STREET B

N

PRE-SERVICING LEGEND
EXTENT OF UNDERGROUND WORKS – 5m o/s FROM R.O.W./PROPERTY LINE
EXTENT OF SURFACE WORKS – 10m o/s FROM R.O.W./PROPERTY LINE

BLOCK 89

LEGEND

- PR. SANITARY SEWER & MANHOLE
- PR. SANITARY FORCEMAIN
- PR. SANITARY SERVICE
- PR. STORM SEWER & MANHOLE
- STMH#1 PR. STORM SEWER MANHOLE
- CBMH#1 PR. CATCHBASIN MANHOLE
- DCBMH#1 PR. DOUBLE CATCHBASIN MANHOLE
- DCB PR. DOUBLE CATCHBASIN
- RLCB#1 PR. REAR LOT CATCHBASIN
- CB PR. CATCHBASIN
- DICB PR. DITCH INLET CATCHBASIN
- PR. FOUNDATION DRAIN SERVICE
- PR. WATERMAIN & VALVE
- PR. WATER SERVICE
- PR. FIRE HYDRANT & VALVE
- HYDRO ONE TRANSFORMER
- JOINT USE SERVICE
- STREET LIGHT
- STREET LIGHT POWER SUPPLY PED
- H.R.&C. JOINT USE ROAD CROSSING
- ENBRIDGE GAS ROAD CROSSING
- JUT JOINT USE TRENCH (JUT) INCLUDING HYDRO ONE, ROGERS, BELL AND ENBRIDGE AS PER THE DESIGNS
- ROGERS CABLE PEDESTAL
- BELL PEDESTAL
- DENOTED BELL AND ROGERS GRADE LEVEL PEDESTAL
- MB CANADA POST MAILBOX
- STREET SIGN
- STREET TREE

GREY COUNTY ROAD 19

BLOCK 99

BLOCK 92

LOT 20

STREET A

19 18 17

22 21 20

23

24

25

26

STREET F

BLOCK 83

LANE H

BLOCK 63 BLOCK 62 BLOCK 61

BLOCK 64

LANE I

BLOCK 60

BLOCK 65

1.5m CONC. SIDEWALK

HELEN STREET

BLOCK 109

BLOCK 91

EX. 250mm ø POLY WATERLINE

LOT 1

BLOCK 45 BLOCK 46 BLOCK 47 BLOCK 48 BLOCK 49 BLOCK 50

REGISTERED PLAN 555

SEE SHEET CUP2

SCALE: 1:500

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Engineer

Engineer

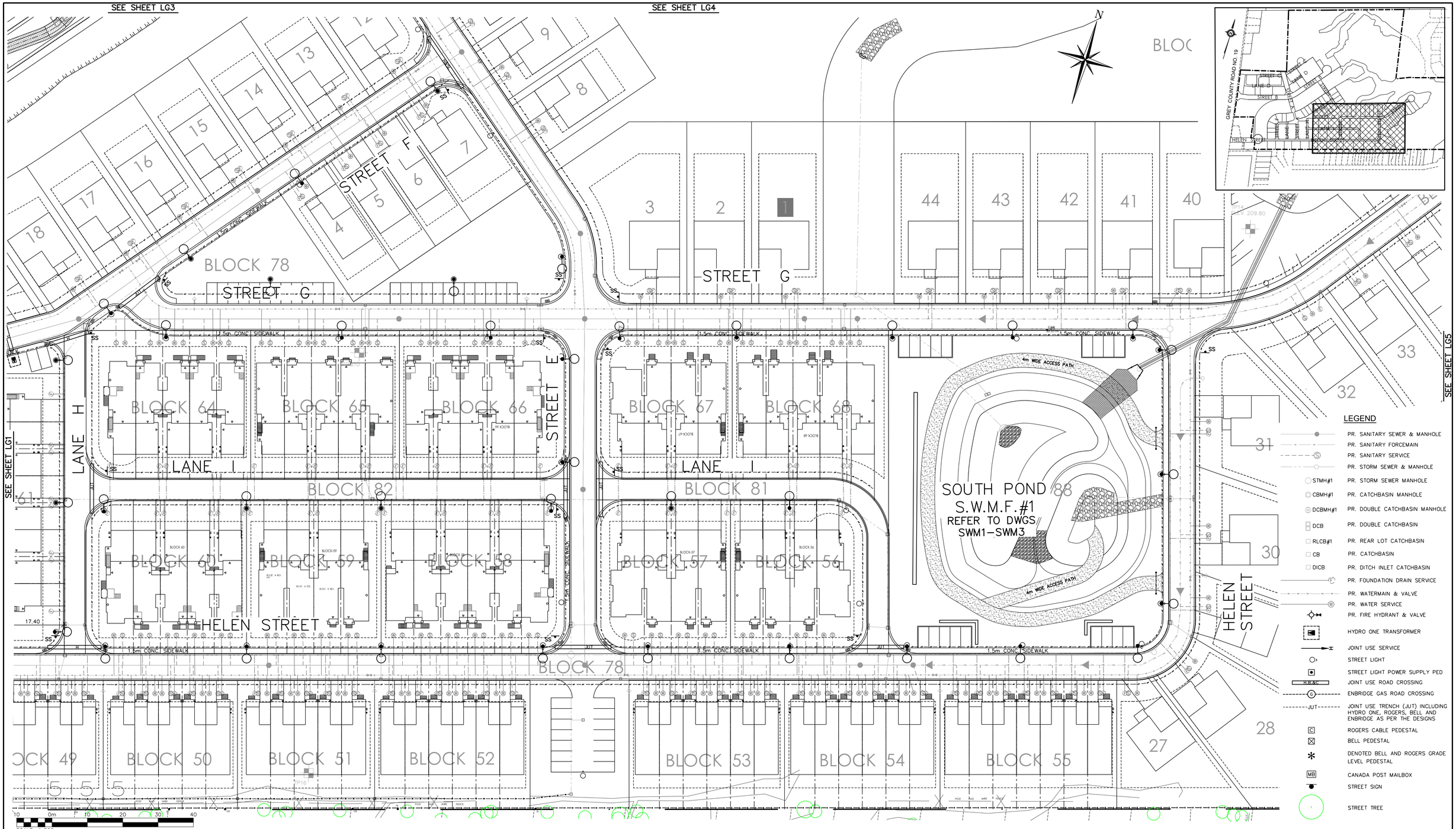
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
COMPOSITE UTILITY PLAN

Town

CROZIER
CONSULTING ENGINEERS

Drawn By	Design By	Project
B.B.	B.B.	721-3464
Scale: 1:500	Date: DEC 10, 2021	Check By: J.E./R.W.
		Drawing: CUP1



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Engineer

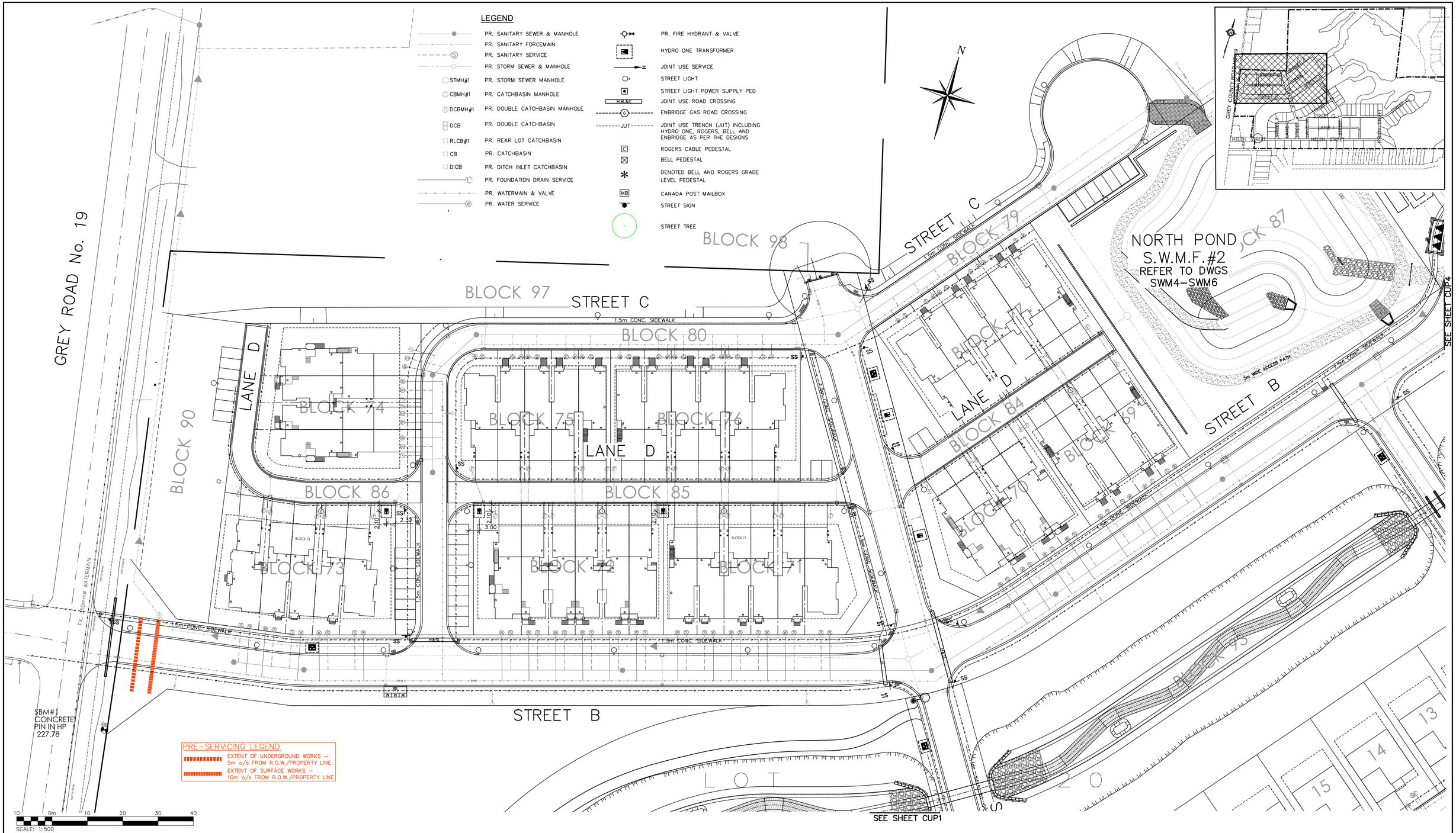
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
COMPOSITE UTILITY PLAN

Town

CROZIER CONSULTING ENGINEERS

Drawn By	Design By	Project
B.B.	B.B.	721–3464
Scale 1:500	Date DEC 10, 2021	Check By J.E./R.W.
		Drawing CUP2



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Engineer

Engineer

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
COMPOSITE UTILITY PLAN

Town

CROZIER CONSULTING ENGINEERS

Drawn By	Design By	Project
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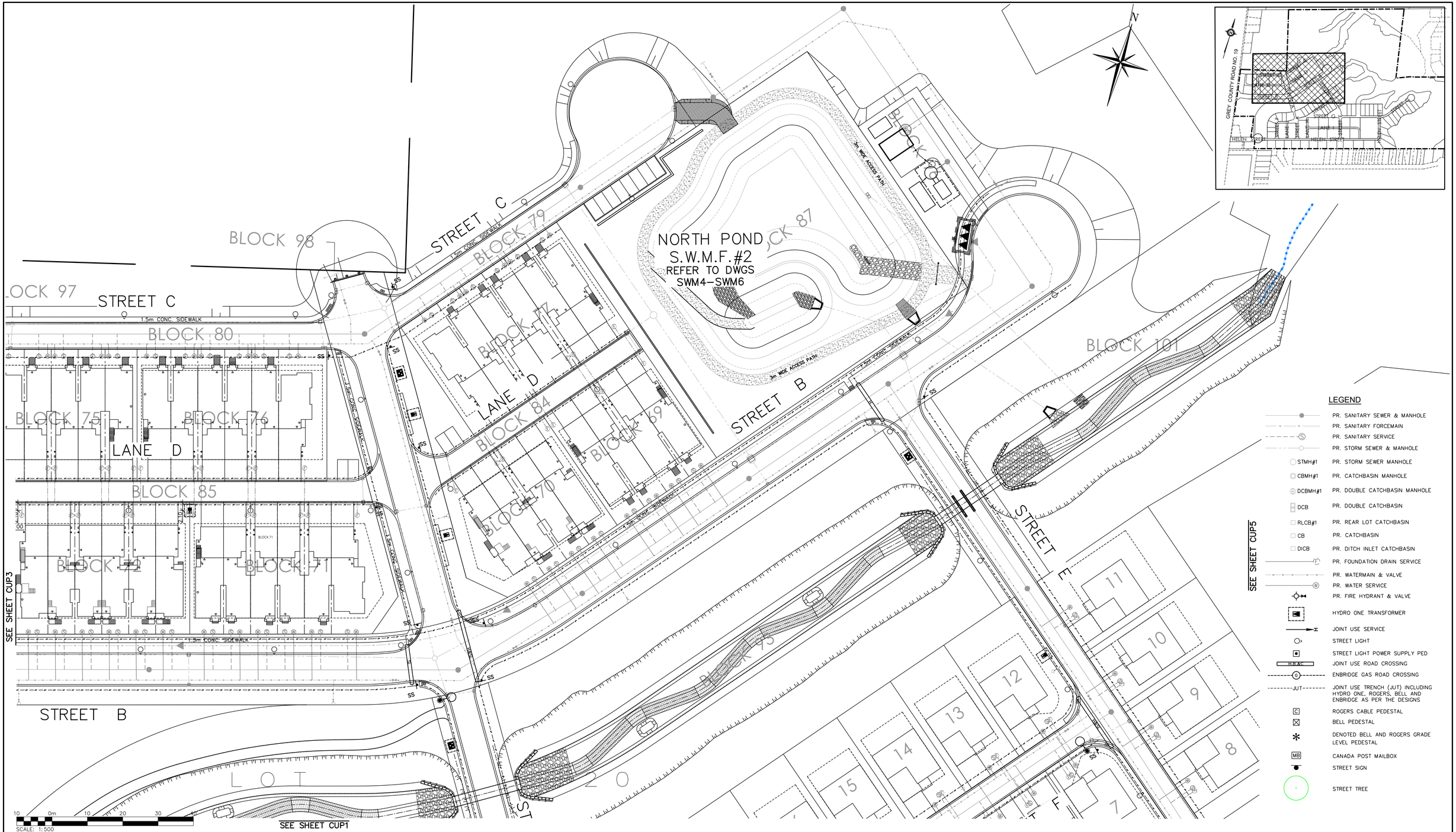
Scale 1:500	Date DEC 10, 2021	Check By J.E./R.W.
		Drawing CUP3



LEGEND

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- STREET SIGN
- STREET TREE

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TEMPORARY BENCHMARKS

SBM#1–ELEVATION: 227.78
CONCRETE PIN IN HYDRO POLE AT SOUTH EAST CORNER OF GREY ROAD No. 19 AND STREET B INTERSECTION.

No.	ISSUE / REVISION	DATE: MM/DD/YYYY
3	THIRD SUBMISSION	12/22/2022
4	ISSUED FOR FOURTH SUBMISSION (CHANNEL ONLY)	08/25/2023
5	ISSUED FOR APPROVAL	10/23/2023
6	ISSUED FOR FOURTH SUBMISSION	03/14/2024
7	ISSUED FOR FIFTH SUBMISSION	06/04/2024
8	RE–ISSUED FOR FIFTH SUBMISSION	07/02/2024
9	ISSUED FOR SIXTH SUBMISSION	08/09/2024
10	ISSUED FOR SEVENTH SUBMISSION	08/20/2024

Engineer

Engineer

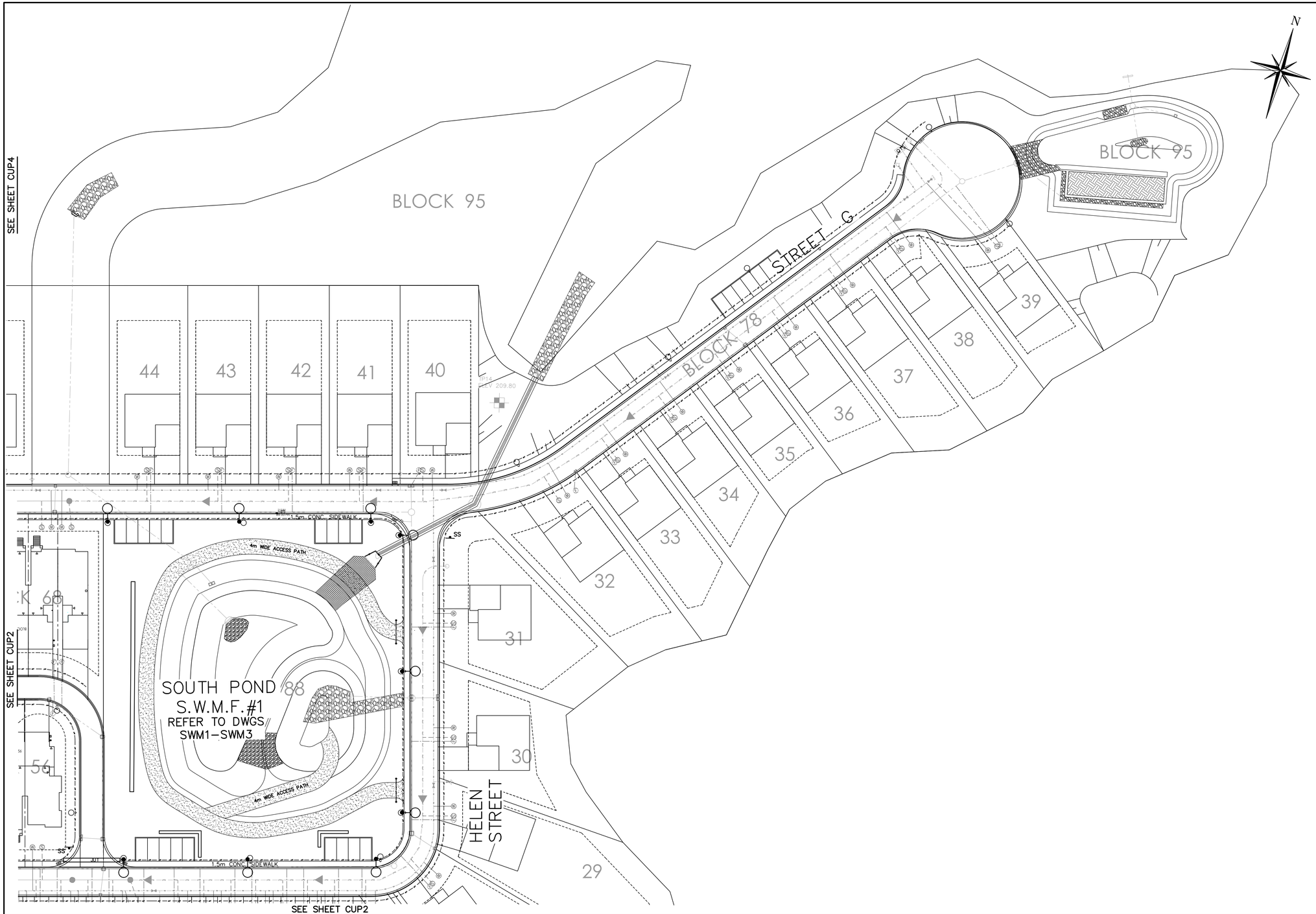
Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
COMPOSITE UTILITY PLAN

Town

CROZIER
CONSULTING ENGINEERS

Drawn By	B.B.	Design By	B.B.	Project	721–3464
Scale	1:500	Date	DEC 10, 2021	Check By	J.E./R.W.	Drawing	CUP4



LEGEND

- PR. SANITARY SEWER & MANHOLE
- PR. SANITARY FORCEMAIN
- PR. SANITARY SERVICE
- PR. STORM SEWER & MANHOLE
- STMH#1 PR. STORM SEWER MANHOLE
- CBMH#1 PR. CATCHBASIN MANHOLE
- DCBMH#1 PR. DOUBLE CATCHBASIN MANHOLE
- DCB PR. DOUBLE CATCHBASIN
- RLCB#1 PR. REAR LOT CATCHBASIN
- CB PR. CATCHBASIN
- DICB PR. DITCH INLET CATCHBASIN
- PR. FOUNDATION DRAIN SERVICE
- PR. WATERMAIN & VALVE
- PR. WATER SERVICE
- PR. FIRE HYDRANT & VALVE
- HYDRO ONE TRANSFORMER
- JOINT USE SERVICE
- STREET LIGHT
- STREET LIGHT POWER SUPPLY PED
- H.B.&C. JOINT USE ROAD CROSSING
- G ENBRIDGE GAS ROAD CROSSING
- JUT JOINT USE TRENCH (JUT) INCLUDING HYDRO ONE, ROGERS, BELL AND ENBRIDGE AS PER THE DESIGNS
- C ROGERS CABLE PEDESTAL
- BELL PEDESTAL
- DENOTED BELL AND ROGERS GRADE LEVEL PEDESTAL
- MB CANADA POST MAILBOX
- STREET SIGN
- STREET TREE

10 0m 10 20 30 40
SCALE: 1:500

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Engineer

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HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
COMPOSITE UTILITY PLAN

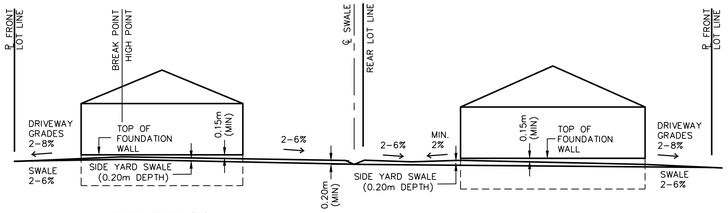
Town

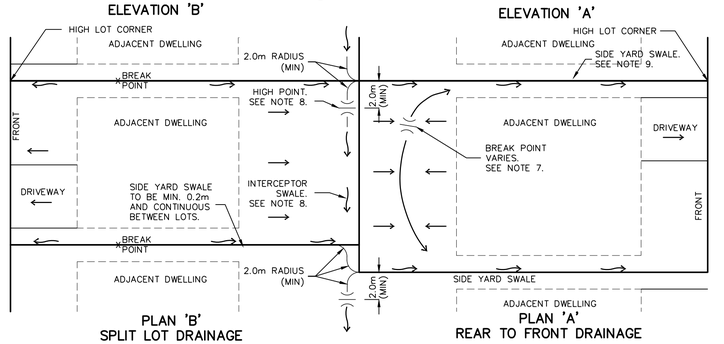
CROZIER CONSULTING ENGINEERS

Drawn By	Design By	Project
B.B.	B.B.	721–3464
Scale 1:500	Date DEC 10, 2021	Check By J.E./R.W.	Drawing CUP5

TYPICAL LOT GRADING RELATIONSHIPS

SCALE: N.T.S.



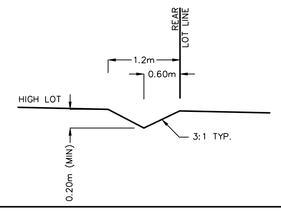


GENERAL NOTES:

1. ROOF DRAINS TO DISCHARGE TO SWALES AS SPECIFIED.
2. MAXIMUM SLOPE ON DRIVEWAY TO BE 8.0% AS MEASURED ALONG THE ℄ OF DRIVEWAY.
3. A REQUIRED MINIMUM OF 75% OF THE REAR YARD AREA SHALL BE GRADED AT 2%-5% SLOPE..
4. GRADE AROUND HOUSES SHALL BE MINIMUM OF 2% AWAY FROM HOUSES.
5. RETAINING WALLS, TIMBER OR OF ANY OTHER MATERIAL TO BE APPROVED BY THE TOWN OF THE BLUE MOUNTAINS BUILDING DEPARTMENT.
6. TOP OF FOUNDATION WALL TO BE MINIMUM 0.15m (MIN.) ABOVE FINISHED GRADE.
7. TERRACE REQUIRED IF SLOPE IN FRONT YARD EXCEEDS 6.0% TERRACING HEIGHT DIFFERENCE TO BE A MAXIMUM OF 1.0m WITH A SLOPE OF 3:1.
8. CUT-OFF SWALES TO BE CONSTRUCTED AT A MINIMUM 2.0% GRADE AND TO BE CONTINUOUS WITH SIDE YARD SWALE. CUT-OFF SWALES TO BE A MINIMUM OF 0.20m LOWER THAN GRADE AT HOUSE FOR LOTS WITH BACK TO FRONT DRAINAGE THAT DO NOT DRAIN ABUTTING LOTS TO THE REAR.
9. INTERCEPTOR SWALES TO BE CONSTRUCTED AT A MINIMUM 2.0% GRADE. FLOW FROM INTERCEPTOR SWALE TO SIDE YARD SWALE BY MEANS OF 2.0m RADIUS (MIN.) CURVE. HIGH POINT TO BE CONSTRUCTED 2.0m (MIN.) FROM THE ℄ OF THE SIDE YARD SWALE ON THE LOWER LOT. INTERCEPTOR SWALES TO BE CONSTRUCTED ON THE HIGH LOT. INTERCEPTOR SWALES TO BE MINIMUM 0.20m DEEP.
10. SIDE YARD SWALE DEPTH TO BE A MINIMUM 0.20m FOR ALL LOTS.
    SIDE YARD SWALES TO BE CONTINUOUS AT A MINIMUM 2.0% GRADE AND A MAXIMUM 6.0% GRADE.
11. 150mm TOPSOIL SHALL BE APPLIED TO EACH LOT PRIOR TO SODDING.

REAR LOT INTERCEPTOR SWALE

N.T.S.



CONSTRUCTION NOTES

GENERAL

1. ALL EXISTING UNDERGROUND UTILITIES AND SERVICES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
2. ANY SITE ILLUMINATION TO BE DIRECTED DOWNWARD AND INTERNAL TO SITE ONLY.
3. DETAILS ON PROPOSED PLANTING, LANDSCAPE FEATURES, SITE TREATMENTS ARE PREPARED BY LANDSCAPE ARCHITECT.
4. ROAD OCCUPANCY PERMIT IS REQUIRED FROM THE TOWN PRIOR TO ANY WORKS COMPLETED WITHIN THE MUNICIPAL RIGHT OF WAY (ROW). CONTRACTOR IS RESPONSIBLE TO RETAIN PERMIT.
5. ALL BOULEVARDS & DISTURBED AREAS ARE TO BE RESTORED TO EXISTING CONDITIONS OR BETTER, 100mm TOPSOIL & SEED UNLESS OTHERWISE NOTED.
6. CLEAR STONE WRAPPED IN FILTER CLOTH CAN BE SUBSTITUTED FOR BEDDING MATERIAL IF APPROVED BY THE GEOTECHNICAL ENGINEER.
7. ALL PROPERTY BARS TO BE PROTECTED DURING CONSTRUCTION. BARS ARE TO BE PLACED BY O.L.S. AT CONTRACTOR'S EXPENSE IF DAMAGED OR REMOVED.
8. DEWATERING TO BE CARRIED OUT IN ACCORDANCE WITH OPSS-517 & 518 TO MAINTAIN ALL TRENCHES IN A DRY CONDITION. CONTRACTOR IS RESPONSIBLE FOR OBTAINING MECP PERMIT IF REQUIRED.
9. ALL RIP-RAP/GABION MATTRESSES TO BE PLACED UPON FILTER CLOTH.

ROADS

1. ALL EXCAVATION SHALL CONFORM TO THE CURRENT ONTARIO PROVINCIAL SPECIFICATION FOR GRADING OPSS 206.
2. THE DEVELOPER SHALL RETAIN A QUALIFIED SOILS CONSULTANT TO CARRY OUT COMPACTION TESTS ON THE COMPLETED SUBGRADE AND SUBSEQUENT LIFTS OF GRANULAR BASE MATERIAL BEFORE PLACEMENT OF NEXT GRANULAR OR ASPHALT LIFT.
3. ALL VEGETATION, BOULDERS OVER 150mmø, TOPSOIL AND ORGANIC OR FROST-SUSCEPTIBLE MATERIALS, SHALL BE REMOVED FROM THE ROAD BASE TO A DEPTH OF AT LEAST 1.20m BELOW FINISHED GRADE AND REPLACED WITH SUITABLE MATERIAL.
4. ALL UNSUITABLE EXCAVATED MATERIAL SHALL BE REMOVED FROM THE ENTIRE "ROAD CORRIDOR" AND DEPOSITED OFF THE SITE TO A DISPOSAL AREA APPROVED BY THE SITE ENGINEER.
5. THE SUB-GRADE SHALL BE SHAPED TO CONFORM TO THE REQUIRED LONGITUDINAL GRADE AND CROSS-SECTION AND SHALL HAVE A CROSSFALL OF 3% FROM THE SOUTH OR EAST SIDE TO THE NORTH OR WEST SIDE OF THE ROADWAY.
6. NATIVE SUB-GRADE TO BE GRADED, COMPACTED AND PROOF-ROLLED PRIOR TO PLACEMENT OF GRANULARS. COMPACTION TO BE MINIMUM 98% STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD). ALL IDENTIFIED SOFT AND WEAK SPOTS SHALL BE EXCAVATED AND BACKFILLED WITH A SUITABLE GRANULAR BASE MATERIAL.
7. THE GRANULAR BASE SHALL BE LAID ON DRY, SMOOTH, PROPERLY GRADED SUB-GRADE, AND SHALL BE SPREAD FOR THE REQUIRED WIDTH TO MEET THE EDGE OF SUB-GRADE. THE GRANULAR ROAD BASE SHALL CONSIST OF A BOTTOM COURSE OF 450mm MIN. CONSOLIDATED GRANULAR 'B' MATERIAL FULL WIDTH ACROSS THE ROADWAY AND A TOP COURSE OF 150mm GRANULAR 'A' MATERIAL FULL WIDTH ACROSS THE ROADWAY AND CONFORMING IN ALL RESPECTS TO THE MINISTRY OF TRANSPORTATION ONTARIO PROVINCIAL STANDARD SPECIFICATIONS OPSS 1010.
8. THE GRANULAR MATERIAL SHALL BE SPREAD IN LAYERS OF 150mm MAXIMUM COMPACTED DEPTHS, AND EACH LAYER SHALL BE THOROUGHLY COMPACTED TO 100% SPMDD.
9. NO GRANULAR BASE SHALL BE PLACED UNTIL THE GRADE ON WHICH IT IS TO BE LAID HAS BEEN INSPECTED AND APPROVED BY THE SOILS CONSULTANT.
10. ALL GRANULAR CONSTRUCTION SHALL CONFORM IN ALL RESPECTS TO ONTARIO PROVINCIAL STANDARD SPECIFICATION OPSS.PROV 314.
11. AS SOON AS THE GRANULAR BASE HAS BEEN COMPLETED IT SHALL BE THOROUGHLY COMPACTED AND SHAPED AND THE BASE COURSE ASPHALT PLACED. THE BASE COURSE SHALL CONSIST OF 50mm MIN. THICKNESS OF HL8 BASE COURSE ASPHALT. THE SURFACE COURSE SHALL CONSIST OF 40mm MIN. THICKNESS OF HL3 SURFACE COURSE ASPHALT. ASPHALT WORK SHALL CONFORM IN ALL RESPECTS TO ONTARIO PROVINCIAL STANDARD SPECIFICATIONS OPSS 310.
12. THE ASPHALT COMPONENTS SHOULD BE COMPACTED TO 92% MAXIMUM RELATIVE DENSITY, AS PER OPSS.MUNI 310.
13. JOINTS WITH EXISTING ASPHALT TO BE SAW CUT STRAIGHT PRIOR TO PLACING NEW ASPHALT AND TACK COAT APPLIED TO EXISTING ASPHALT.
14. ALL SERVICES, MANHOLES, VALVES, ETC. ARE TO BE INSTALLED TO MATCH GRADE OF BASE COURSE OF ASPHALT AND/OR FINISHED GRADE OF LANDSCAPING. UPON PLACEMENT OF SURFACE COURSE OF ASPHALT ALL APPURTENANCES LOCATED IN ROADWAY SHALL BE RAISED TO MATCH FINISHED GRADE.
15. ALL ROAD CROSSING CULVERTS TO BE HDPE 320 kPa PIPE TO CL-625 CSA S6 UNLESS NOTED OTHERWISE. THE MINIMUM SIZE FOR ROAD CROSSING CULVERTS SHALL BE 600mm. ENTRANCE AND OTHER INLINE DITCH CULVERTS SHALL BE MINIMUM 500mm. ALL CULVERTS TO BE INSTALLED WITH FROST TAPER TREATMENT PER OPSD 803.030 OR 803.031 & RIP RAP END TREATMENT PER OPSD 810.010. MINIMUM COVER TO BE 0.3m (0.5m RECOMMENDED) AT ALL POINTS ALONG CULVERTS.
16. PERFORATED SUBDRAIN (100mmø FOR INTERNAL ROADS & 150mmø FOR PUBLIC ROADS), SHALL BE INSTALLED CONTINUOUSLY BELOW CURB ON BOTH SIDES OF ALL ROADS WHERE THE TOWN'S URBAN CROSS SECTIONS ARE BEING APPLIED UNLESS SOIL CONDITIONS WARRANT OTHERWISE, AND CONNECTED TO STORM SEWER SYSTEMS. ALL SUBDRAINS ARE TO BE INSTALLED IN ACCORDANCE WITH OPSS.MUNI. 405 AND OPSS 421.
17. GARBAGE PADS TO BE CONSTRUCTED PER SAME MAKE-UP AS SIDEWALKS.
18. CONCRETE SIDEWALKS SHALL BE MINIMUM 1.5m AND INSTALLED TO FACILITATE SAFE PEDESTRIAN MOVEMENT AND ENCOURAGE PEDESTRIAN TRAFFIC. ALL CONCRETE SIDEWALK RAMPS SHALL INCLUDE TACTILE WALKING SURFACE INDICATORS IN ACCORDANCE WITH OPSD 310.039.
19. NO STREET PARKING.

STORM SEWER

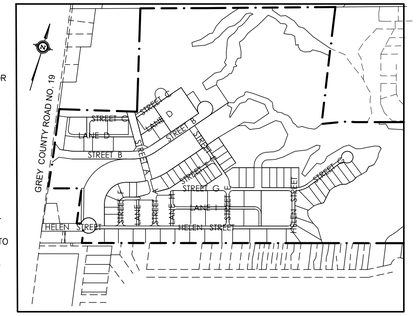
1. STORM SEWER PIPE SHALL BE CONSTRUCTION CONCRETE CL-65D (525mmø AND LARGER) OR PVC DR35 (450mmø AND SMALLER). PVC PIPE SHALL BE USED IN ACCORDANCE TO OPSD 806.040 EXCLUDING THE USE OF DR41. NON-REINFORCED CONCRETE PIPE MAY BE USED FOR SIZES OF MAINLINE SEWER UP TO AND INCLUDING 375mmø. REINFORCED CONCRETE PIPE MAY BE USED FOR ALL SIZES OF MAINLINE SEWER.
2. MINIMUM PIPE SIZE, INCLUDING CATCHBASIN LEADS, SHALL BE 300mmø.
3. STORM SEWER EMBEDMENT SHALL CONFORM WITH OPSD 802.010 USING GRANULAR 'A'.
4. PRECAST STORM MANHOLES SHALL BE PER OPSD 701.010 (1200mmø), 701.011 (1500mmø) OR 701.012 (1800mmø) WITH FRAME AND GRATE PER OPSD 401.010 TYPE 'A' AND HOLLOW RECTANGULAR LADDER RUNGS OPSD 405.010. CATCHBASIN MANHOLE FRAME AND GRATE PER OPSD 400.020. BENCHING SHALL BE PROVIDED IN ALL MANHOLES IN ACCORDANCE WITH OPSD 710.021.
5. PRECAST CATCHBASINS ARE TO BE OPSD 705.010 (SINGLE) OR 705.020 (DOUBLE) WITH FRAME AND GRATE OPSD 400.020. ALL CATCHBASINS AND CATCHBASIN MANHOLES SHALL HAVE SUMPS.
6. FROST STRAPS REQUIRED ON ALL MANHOLES AS PER OPSD 701.100. FROST STRAPS SHALL BE CONTINUOUS AND EXTEND A MINIMUM OF 4m BELOW GRADE
7. CULVERTS ARE NOT TO EXTEND TO DITCH INVERT BUT ARE TO BE 0.6m SHORTER TO AVOID IMPEDING DITCH FLOW.
8. FOUNDATION DRAINS SHALL NOT BE CONNECTED DIRECTLY TO THE TOWN SEWER SYSTEMS UNDER ANY CIRCUMSTANCES. A SUMP PUMP SYSTEM MAY DISCHARGE TO A 100mmø RESIDENTIAL STORM SEWER SERVICE CONNECTION WITH AN AIR GAP AS PER TOWN STANDARD DRAWING 4.4.1A (URBAN). WHERE STORM SEWER CONNECTIONS ARE NOT AVAILABLE, THE SUMP PUMP SYSTEM SHALL DISCHARGE TO A SPLASH PAD IN A LANDSCAPED AREA WITH THE WATER DRAINING TO SIDE YARD SWALES AND DIRECTED TO THE REAR OF THE LOT WHERE POSSIBLE AS PER TOWN STANDARD DRAWING 4.4.1B (RURAL).

WATERMAIN

1. ALL CONSTRUCTION TO CONFORM TO AWWA C605-94 AND AWWA C600-99 STANDARDS.
2. WATERMAIN PIPE SHALL BE PVC DR18 (SIZES UP TO 300mmø), CONFORMING TO AWWA C900. ALL PIPE MATERIALS SHALL MEET NSF/ANSI 61 CERTIFICATION. A DIFFERENT PIPE STRENGTH OR TYPE MAY BE REQUIRED BY THE MUNICIPALITY FOR SPECIAL CONDITIONS.
3. WATERMAIN DEFLECTION NOT TO EXCEED MANUFACTURER'S RECOMMENDATIONS. WHERE DEFLECTION CAN NOT MEET MANUFACTURES RECOMMENDATIONS, CONTRACTOR TO INSTALL THE REQUIRED MANUFACTURED BEND AS NECESSARY.
4. WATERMAIN SHALL BE BEDDED IN ACCORDANCE WITH OPSD 802.010 WITH GRANULAR 'A'.
5. WATERMAIN TO BE TESTED AND APPROVED PER THE TOWN OF THE BLUE MOUNTAINS – WATERMAIN COMMISSIONING PROTOCOL STANDARD (MAY 2021).
6. ALL TESTING REQUIRES NOTIFICATION IN WRITING, 48 HOURS PRIOR TO ALL TESTING.
7. ALL CONNECTIONS TO EXISTING MUNICIPAL SUPPLY MAINS MUST BE WITNESSED AND INSPECTED BY THE MUNICIPALITY OR REPRESENTATIVE AND GIVING 48 HOURS NOTICE PRIOR TO BACKFILLING OPERATIONS.
8. THE PVC PIPE INSTALLATION SHALL INCLUDE TRACER WIRE. TRACER WIRE TO BE 10 GAUGE, MULTI-STRAND SHALL BE PLACED ON TOP & ATTACHED IN TWO PLACES ON EACH LENGTH OF PVC WATERMAIN. ALL CONNECTIONS SHALL BE MADE WITH "DRYCONN WATERPROOF CONNECTORS" OR APPROVED EQUAL. MUNICIPALITY MUST BE ON SITE DURING ANY TRACER WIRE CONTINUITY TESTING.
9. THE MINIMUM COVER ON WATERMAINS SHALL BE 1.7m. WHEN COVER IS LESS THAN 1.7m, CONTRACTOR TO PROVIDE INSULATION PER DETAIL ON DWG DT3.
10. CATHODIC PROTECTION REQUIRED ON ALL METALLIC FITTINGS AND PIPE AS PER OPSS 702 & TOWN STANDARD.
11. MECHANICAL JOINT RESTRAINTS SHALL BE REQUIRED AT ALL CHANGES IN PIPE DIRECTION, TERMINATIONS AND ANY LOCATION WHERE THRUST PRESSURES MAY OCCUR. WHERE SOIL CONDITIONS ARE SUSPECT, SUCH AS IN DISTURBED SOILS OR SOILS WITH BEARING CAPACITY OF LESS THAN 200kPa, PIPE RESTRAINERS SHALL BE USED. SEE TOWN STANDARDS OF APPROPRIATE PRODUCT REQUIREMENTS. THE USE OF THREADED RODS IN JOINT RESTRAINT IS NOT PERMISSIBLE.
12. ALL HYDRANTS SHALL BE PAINTED CHROME YELLOW. ALL HYDRANTS SHALL HAVE A FLEXSTAKE HYDRANT MARKER MODEL C804, 1.2m LONG, COLOUR YELLOW WITH A REFLECTIVE HYDRANT GRAPHIC ON BOTH SIDES AT THE TOP OF THE MARKER. THE REQUIRED HYDRANT MARKER IS POSITIONED ON THE RIGHT PORT AS VIEWED FROM THE STREET.
13. ISOLATION VALVES SHALL BE RESILIENT WEDGE GATE VALVES WITH MECHANICAL JOINTS, OPEN LEFT, CLOW OR MUELLER. VALVE BOXES SHALL BE 5-SL-48 SLIDING OR MUELLER MVB COMPOSITE COMPLETE WITH GUIDE PLATE AND DUCTILE ADJUSTABLE TOP AND LID OR APPROVED EQUAL WITH CAP PAINTED BLUE.

A) SERVICES

1. EACH HOUSING UNIT SHALL HAVE A SEPARATE 25mmø MIN. CROSSLINKED POLYETHYLENE SDR9 REHAU'S MUNICIPLEX (BLUE904) WATER SERVICE. A CURB STOP AND EXTENSION SERVICE BOX AND MAIN STOP MUST BE INSTALLED ON EACH SERVICE USING COMPRESSION JOINT FITTINGS. TRACER WIRE SHALL BE PLACED ALONG THE ENTIRE LENGTH OF EACH SERVICE LINE.
2. WATER SERVICE FITTINGS SHALL BE AS FOLLOWS:
   - MAIN STOPS ARE TO BE MUELLER 300 B-25008N.
   - CURB STOPS ARE TO BE SELF DRAINING, MUELLER 300 B-25209N.
   - SERVICE BOXES ARE TO BE OF ALL IRON/STEEL CONSTRUCTION AND SUPPLIED WITH STAINLESS STEEL RODS, MUELLER 8D1 (25mm), 8D2 (31-50mm) OR EQUIVALENT.
3. CURB STOPS SHALL BE LOCATED AT THE LIMITS OF THE SERVICE CORRIDOR OR PER THE TYPICAL ROAD CROSS SECTION. CURB STOPS AND WATER SERVICE TAILS (AS SPECIFIED) TO BE SUPPLIED WITH A 89mm X 38mm MARKER FROM THE INVERT OF THE SERVICE TO 600mm ABOVE GRADE PAINTED BLUE.
4. SERVICE CONNECTIONS TO WATERMAINS SHALL BE MADE BY DIRECT TAPPING OR WITH PVC OR DUCTILE IRON PIPE SERVICE SADDLES. SERVICE SADDLES TO BE ROBAR SERIES 2606 PRODUCT #2626 & TAPPING SADDLE TO BE ROBAR 6906.
5. SERVICE CONNECTIONS SHALL BE LEFT WITH A TAIL ABOVE GRADE & CAPPED OR CRIMPED. TAIL LOCATION TO BE AS SPECIFIED ON TYPICAL ROAD CROSS SECTIONS.
6. SERVICE CONNECTIONS WITH RESIDUAL PRESSURES EXCEEDING 550 kPa (80psi) MUST BE EQUIPPED WITH PRESSURE REDUCING DEVICES UPSTREAM OF WATER METER IN FUTURE HOMES.
7. CSV TO BE SLEEVED FOR ALL WATER SERVICES THAT ARE LOCATED IN DRIVEWAYS.



200mmø SAN SEWER AND 200mmø W/M STEEL CASING DETAIL

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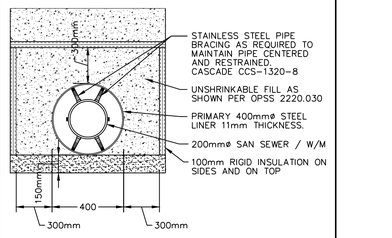


CASING SPACERS

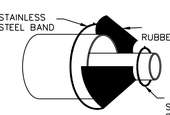
- CASCADE: CCS – 1320-8 (OR APPROVED EQUAL)

NOTES:

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF MATERIAL AND INSTALLATION METHODOLOGY FOR REVIEW AND APPROVAL.
2. ALL CASING SPACERS ARE TO BE MADE OF T-304 STAINLESS STEEL.
3. BEARING SURFACES (RUNNERS) SHALL BE ULTRA HIGH MOLECULAR WEIGHT POLYMER OR EQUIVALENT.
4. POSITIONING OF SPACERS ALONG THE WATERMAIN IS TO BE AS PER MANUFACTURERS SPECIFICATIONS.
5. POSITION OF WATERMAIN WITHIN LINER TO BE CENTERED AND RESTRAINED, SUFFICIENT ENOUGH TO PROVIDE NO LESS THAN 19mm (¾") CLEARANCE BETWEEN THE CASING PIPE AND THE OUTSIDE DIAMETER OF THE BELL.

CENTERED & RESTRAINED

6. WATERMAIN SHALL BE RESTRAINED LATERALLY FOR THE ENTIRE LENGTH OF THE LINER PLUS ONE FULL PIPE LENGTH BEYOND END OF CASING.
7. LINER TO BE SEALED USING WRAP AROUND RUBBER ENDS COMPLETE WITH STAINLESS STEEL (T-304) BANDING.



MUD MAT DETAIL

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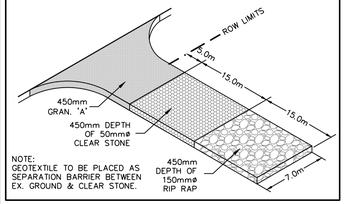
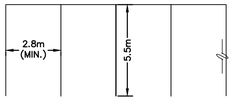


NOTE: GEOTEXTILE TO BE PLACED AS SEPARATION BARRIER BETWEEN EX. GROUND & CLEAR STONE.

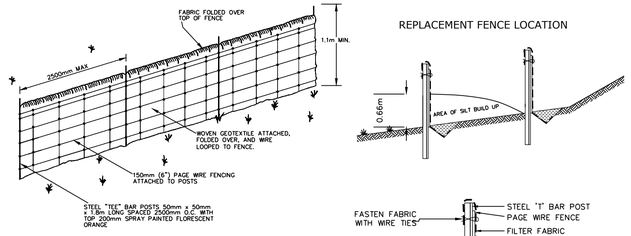
TYPICAL PARKING STALL DETAIL

NTS



PARKING LINES TO BE PAINTED WHITE, 100mm THICK.

REPLACEMENT FENCE LOCATION

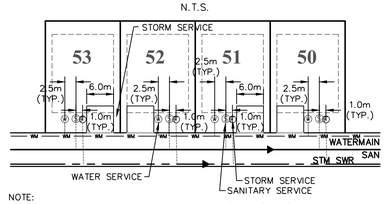


NOTES:

1. SILT CONTROL FENCE SHOULD BE ALIGNED WITH CONTOURS FOR SHEET OVERLAND FLOW.
2. SILT/SEDIMENT CONTROL FENCE IS TO BE LOCATED IN AREAS OF LOW SEDIMENT YIELD ON SLOPES THAT CONFORM TO MTO DRAINAGE MANUAL VOLUME 2 "CHART F4-3C" TOPOGRAPHIC FACTOR LS BASED ON SLOPE LENGTH AND GRADIENT."
3. SILT/SEDIMENT CONTROL FENCE SHALL BE INSTALLED WITH FILTER MEDIA FABRIC TOED INTO THE SOIL A MIN. OF 300mm BY EITHER STATIC SLICING OR TRENCH METHODS WITH COMPACTION OF TRENCH MATERIAL MEETING 95% INSITU SOIL STRENGTH.
4. STEEL "T" BAR POSTS ARE TO BE SPACED MAX. 2500mm ON CENTER.
5. FROZEN GROUND CONDITIONS REQUIRE FILTER FABRIC TO BE BACKFILLED IN TRENCH WITH CLEAR STONE.
6. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.
7. GEOTEXTILE FABRIC TO BE COMPRISED OF WOVEN OR NON-WOVEN U.V. STABILIZED MATERIAL. FABRIC TO BE FOLDED OVER TOP OF FENCE MIN. 300mm AND WIRE FASTENED.

SERVICE CONNECTION AND DRIVEWAY DEPRESSION DETAIL

N.T.S.



NOTE:
1. ALL SANITARY SERVICE LATERALS 125mmø PVC (DR28) UNLESS OTHERWISE NOTED.
2. ALL WATER SERVICES TO BE 25mmø MIN. REHAU'S MUNICIPLEX (BLUE) OR SERIES 160 POLYETHYLENE WATER SERVICE..
3. ALL STORM SERVICES TO BE 100mmø PVC (SDR-28) UNLESS OTHERWISE NOTED
4. MIN. HORIZONTAL PIPE CLEARANCE BETWEEN W/M AND SAN/STM IS 2.5m
5. SERVICES TO BE TERMINATED AT 3m OFFSET OF THE BUILDING FACE WHERE SPECIFIED ON TYPICAL CROSS SECTIONS (DWG DT2). WHERE LESS THAN 3m IS SPECIFIED, ENSURE 1:1 EXCAVATION SPACE FROM BUILDING FACE TO SERVICE.

SANITARY SEWERS

1. MAIN SEWERS SHALL BE PVC SDR 35 WITH RUBBER GASKET CONNECTIONS AND MIN. SIZE OF 200mmø. ALL SANITARY SEWER PIPES SHALL CONFORM TO THE REQUIREMENTS OF CSA AND OPSS.
2. SANITARY FORCEMAIN PIPE DESIGN SHOULD REFERENCE MOE AND TOWN REQUIREMENTS.
3. SANITARY SEWER EMBEDMENT SHALL CONFORM WITH OPSD 802.010 USING GRANULAR 'A'.
4. PRECAST SANITARY MANHOLES SHALL CONFORM WITH OPSD 701.010 (1200mmø) WITH HOLLOW RECTANGULAR LADDER RUNGS OPSD 405.010. BENCHING SHALL BE PROVIDED IN ALL MANHOLES AS PER OPSD 701.021.
4. MANHOLE COVERS SHALL BE JW150 CLOSED COVER OR 401.010A (OR APPROVED EQUAL) AND INSTALLED AS PER MUNICIPAL STANDARD.
5. HOUSE SERVICE CONNECTIONS SHALL BE PVC SDR 28 WITH RUBBER GASKET CONNECTIONS AND SHALL BE 125mmø MIN. SERVICE CONNECTIONS TO HAVE A MINIMUM 2.0% SLOPE. SANITARY SERVICES TO BE TERMINATED AT LIMIT OF SERVICING CORRIDOR WITH INVERT MINIMUM 0.5m BELOW UNDERSIDE OF FOOTING OF UNIT. EACH PROPERTY IS PERMITTED ONLY ONE SERVICE CONNECTION. WYE (DOUBLE) CONNECTIONS ARE NOT PERMITTED
6. SHOP MANUFACTURED "TEE" CONNECTIONS SHALL BE USED FOR HOUSE SERVICE CONNECTIONS ON 200mm AND 250mm SEWERS.
7. ALL 125mmø SERVICE CONNECTIONS SHALL BE LOCATED AT THE LIMITS OF THE SERVICING CORRIDOR WITH A 125mmX100mm REDUCER, WATERTIGHT PLUG SUITABLY BRACED TO WITHSTAND TEST PRESSURES & 89mm X 38mm WOODEN MARKER PLACED FROM THE INVERT OF THE CONNECTION TO 600mm ABOVE GRADE PAINTED GREEN.
8. ALL LPS CURB STOPS ARE TO HAVE 89mm X 38mm WOODEN MARKER PLACED FROM THE INVERT OF THE CONNECTION TO 600mm ABOVE GRADE PAINTED GREEN. LPS CURB STOPS MUST BE EASILY DIFFERENTIATED FROM WATER CURB STOPS.
9. CONNECTION TO MANHOLES SHALL ENTER THE MANHOLE NO HIGHER THAN 600mm ABOVE THE LOWEST INVERT EXCEPT AS OTHERWISE APPROVED BY THE TOWN.
10. FROST STRAPS REQUIRED ON ALL MANHOLES AS PER OPSD 701.100. FROST STRAPS SHALL BE CONTINUOUS AND EXTEND A MINIMUM OF 4m BELOW GRADE.

Nottawasaga Valley Conservation Authority

TYPICAL DETAIL OF SILT/SEDIMENT FENCE

NO.	REVISION	APR'D	DATE

APR'D: DATE: 03.03.06
DRAWN: A.S.C SCALE: NTS

BSD-23 DRAFT

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TEMPORARY BENCHMARKS

SBM#1-ELEVATION: 227.78
CONCRETE PIN IN HYDRO POLE AT SOUTH EAST CORNER OF GREY ROAD No. 19 AND STREET B INTERSECTION.

No.	ISSUE / REVISION	DATE: MM/DD/YYYY
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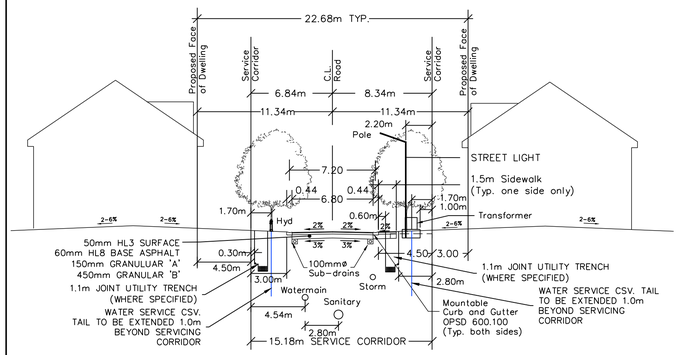
Engineer [redacted]
Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
GENERAL NOTES/DETAIL PLAN

Town [redacted]

B.B.	B.B.	721-3464
1:1000	DEC 10, 2021	J.E./R.W.	DT1



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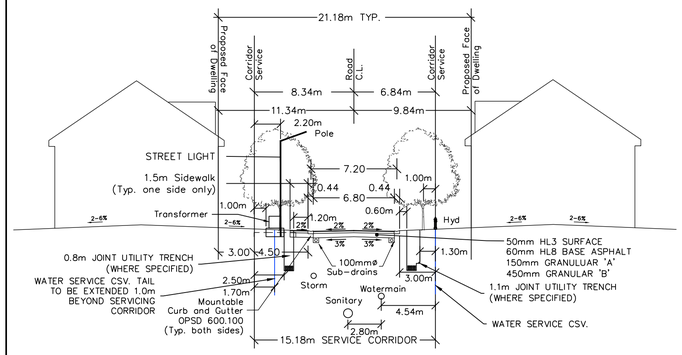
2. TREES TO BE PLACED IN LOCATIONS AS PER APPROVED LANDSCAPE PLAN.
3. TRANSFORMERS TO BE LOCATED ON SIDE STREETS WHERE POSSIBLE.
4. HYDRO & WATER METERS TO BE LOCATED AT END OF TOWNHOUSE BLOCKS.
5. 7.2m DIMENSION IS MEASURED BETWEEN THE BOTTOM OF EACH GUTTER.
6. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SHOWN.

ROAD SECTION APPLIES TO:
1. STREET F (STA. 3+080 TO 3+350)
2. STREET G (STA. 5+000 TO 5+300

INTERNAL PRIVATE STREET SECTION 1
TYPICAL CROSS-SECTION
CURB AND 1.5m SIDEWALK



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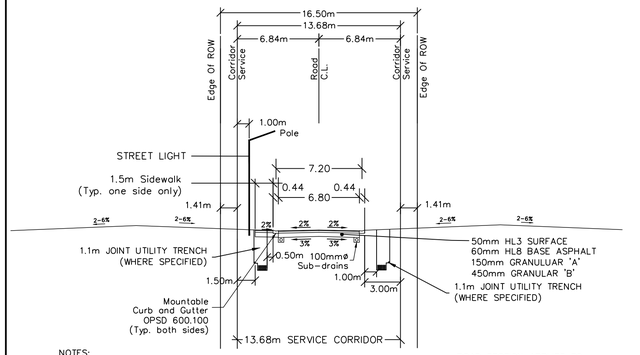
ROAD SECTION APPLIES TO:
1. HELEN STREET (EAST OF STA. 2+160)

INTERNAL PRIVATE STREET SECTION 2
TYPICAL CROSS-SECTION
CURB AND 1.5m SIDEWALK



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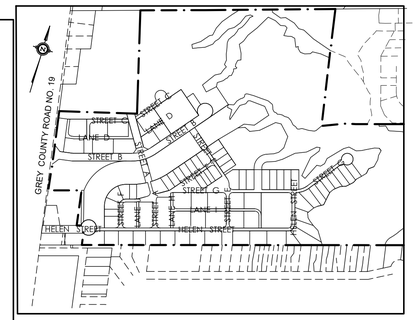
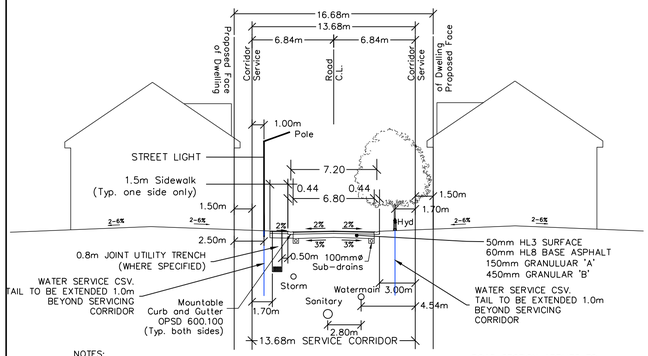
6. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SHOWN.

ROAD SECTION APPLIES TO:
1. STREET A (STREET B TO STREET F)

NOTE: SEE SHEET WC2 FOR UTILITY LOCATIONS AT WATER CROSSING.

INTERNAL PRIVATE STREET SECTION 3
TYPICAL CROSS-SECTION
CURB AND 1.5m SIDEWALK





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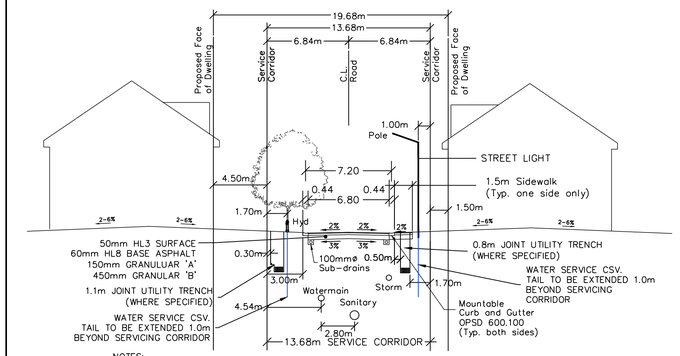
ROAD SECTION APPLIES TO:
1. STREET A (SOUTH OF STREET F)

INTERNAL PRIVATE STREET SECTION 4
TYPICAL CROSS-SECTION
CURB AND 1.5m SIDEWALK



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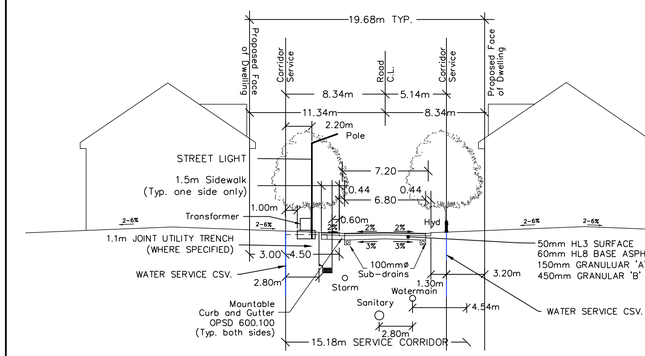
ROAD SECTION APPLIES TO:
1. STREET F (STA. 3+000 TO 3+080)

INTERNAL PRIVATE STREET SECTION 5
TYPICAL CROSS-SECTION
CURB AND 1.5m SIDEWALK



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ROAD SECTION APPLIES TO:
1. STREET C

INTERNAL PRIVATE STREET SECTION 6
TYPICAL CROSS-SECTION
CURB AND 1.5m SIDEWALK

GENERAL CROSS SECTION NOTES:
1. HYDRO, GAS AND COMMUNICATIONS FOR REAR ACCESS TOWNS TO BE SERVICES AND METERED FROM THE GARAGE SIDE OF THE BUILDING
2. FRONT ACCESS TOWNS AND SINGLES TO BE SERVICED FROM THE FRONT SIDE OF THE BUILDING. METER LOCATIONS PER ARCHITECTURAL DRAWINGS.

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Engineer [redacted]

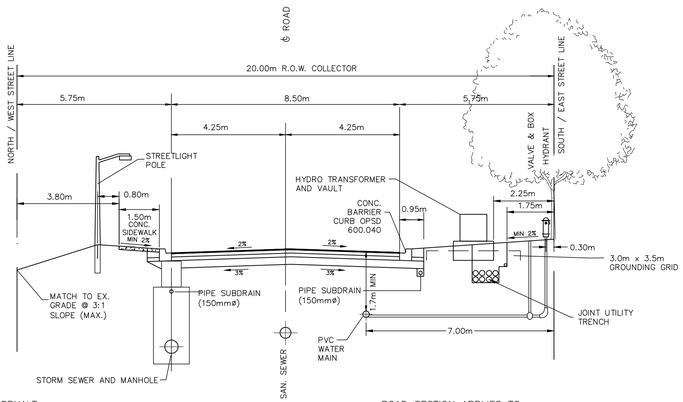
Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
GENERAL NOTES/DETAIL PLAN

Town [redacted]

B.B.	B.B.		721-3464
NTS	DEC 10, 2021	J.E./R.W.	DT2A



NOTES:

ROAD: LOCAL – 50mm HL3 ASPHALT
– 60mm HL8 ASPHALT
– 150mm GRANULAR "A"
– 450mm GRANULAR "B"

BOULEVARDS – 100mm TOPSOIL AND NURSERY SOD

SIDEWALKS – 150mm GRANULAR "A" BASE
(OPSD310.010) – 125mm CONCRETE 30 MPA (150mm AT DRIVEWAYS)

MINIMUM RADII – CUL DE SAC 13.0m
– RETURN 11.0m

BASED ON TOWN OF THE BLUE MOUNTAIN STANDARD (16-STD-U1)

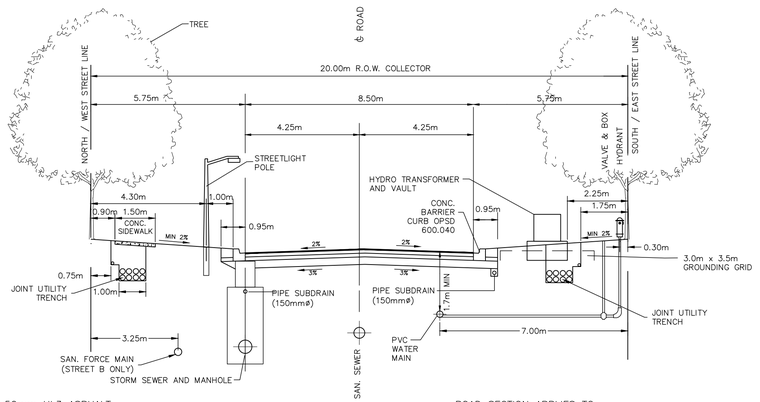
ROAD SECTION APPLIES TO:
1. HELEN STREET (STA. 2+000 TO 2+160)

TOWN OF THE BLUE MOUNTAINS

MODIFIED 8.5m ROAD–20m R.O.W.
(CURB & GUTTER)
HELEN STREET
(STA. 2+000 TO 2+160)

No.	REVISIONS	APR'D	DATE

Drawn: B.B | Approved: | DWG No.
Scale: N.T.S | Date: MARCH, 2022



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MINIMUM RADII – CUL DE SAC 13.0m
– RETURN 11.0m

BASED ON TOWN OF THE BLUE MOUNTAIN STANDARD (16-STD-U1)

ROAD SECTION APPLIES TO:
1. STREET B
2. STREET A (NORTH OF STREET B)

TOWN OF THE BLUE MOUNTAINS

MODIFIED 8.5m ROAD–20m R.O.W.
(CURB & GUTTER)
STREET B & STREET A
(NORTH OF STREET B)

No.	REVISIONS	APR'D	DATE

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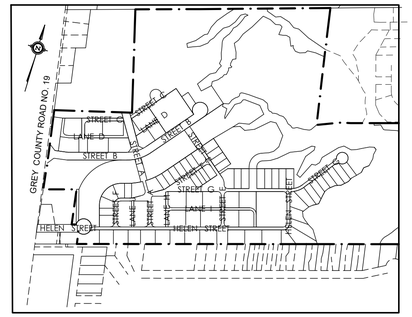
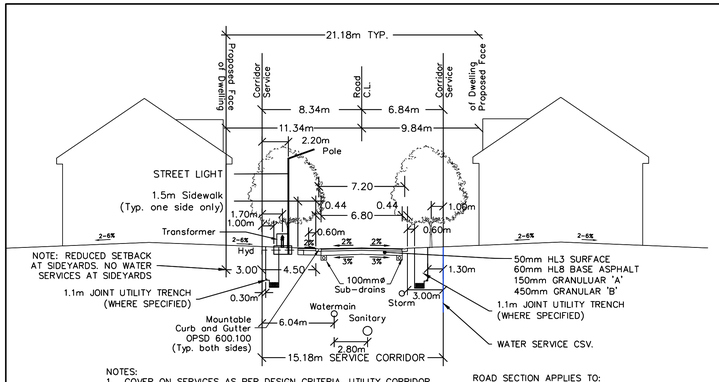


GENERAL CROSS SECTION NOTES;
1. HYDRO, GAS AND COMMUNICATIONS FOR REAR ACCESS TOWNS TO BE SERVICES AND METERED FROM THE GARAGE SIDE OF THE BUILDING
2. FRONT ACCESS TOWNS AND SINGLES TO BE SERVICED FROM THE FRONT SIDE OF THE BUILDING. METER LOCATIONS PER ARCHITECTURAL DRAWINGS.



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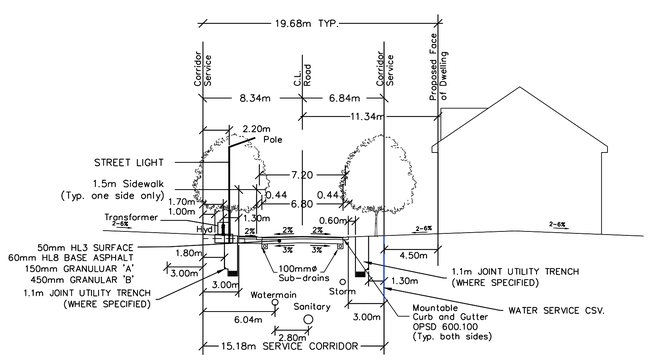
ROAD SECTION APPLIES TO:
1. STREET E

NOTE: WATER INFRASTRUCTURE IS ONLY INCLUDED IN SECTION BETWEEN STREET B AND STREET G).

SEE SHEET WC3 FOR UTILITY LOCATIONS AT WATER CROSSING

INTERNAL PRIVATE STREET SECTION 7
TYPICAL CROSS–SECTION
CURB AND 1.5m SIDEWALK



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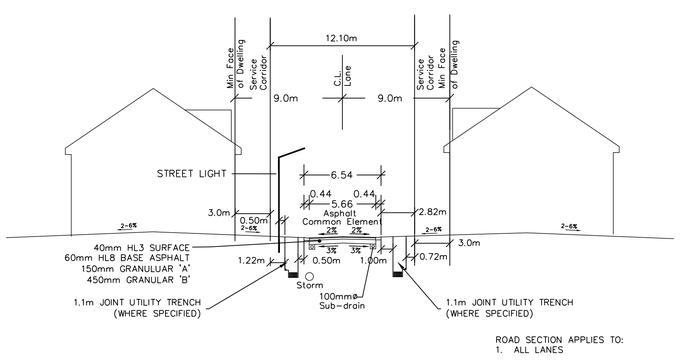
ROAD SECTION APPLIES TO:
1. STREET G (STA. 5+300 TO 5+500)

INTERNAL PRIVATE STREET SECTION 8
TYPICAL CROSS–SECTION
CURB AND 1.5m SIDEWALK



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ROAD SECTION APPLIES TO:
1. ALL LANES

NOTE: LANE D (STREET A TO NORTH POND) HAS STORM SEWER ON OPPOSITE SIDE OF STREET.

LANEWAY CROSS SECTION 1
TYPICAL CROSS–SECTION

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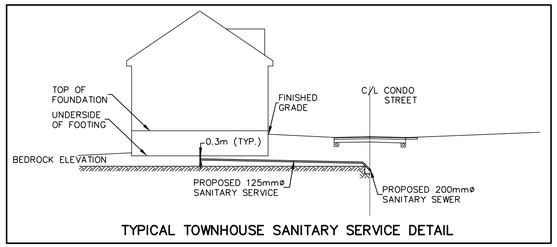
Engineer: [redacted]
Engineer: [redacted]

Project: HOME FARM
TOWN OF THE BLUE MOUNTAINS

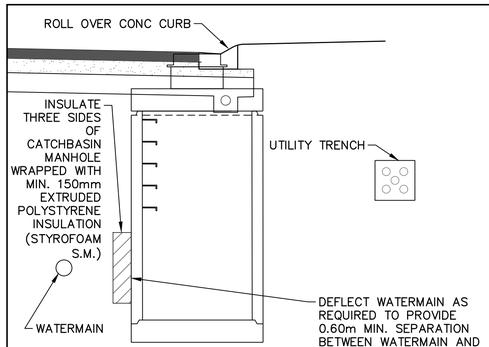
Drawing: GENERAL NOTES/DETAIL PLAN

Town: [redacted]

B.B.	B.B.	721–3464
NTS	DEC 10, 2021	J.E./R.W.	DT2B



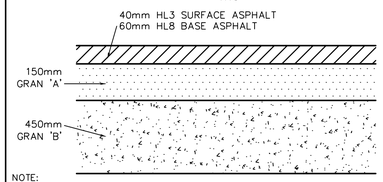
TYPICAL TOWNHOUSE SANITARY SERVICE DETAIL



CATCHBASIN MANHOLE:
CATCHBASIN INSULATION DETAIL
SCALE: N.T.S.

TYPICAL PAVEMENT STRUCTURE DETAIL 'A'

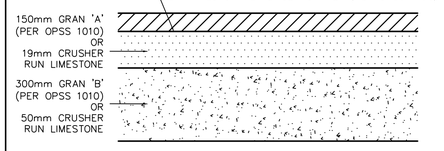
NTS



NOTE:
1) REFER TO ROADWAY CONSTRUCTION NOTES FOR CONSTRUCTION DETAILS.
2) ROAD STRUCTURE PER TERRAPROBE GEOTECHNICAL INVESTIGATION DATED JULY 2011

HELEN STREET PARKING LOT PAVEMENT STRUCTURE & GUEST PARKING STALL DETAIL (CAR PARKING COMPONENT)

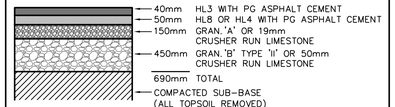
NTS



NOTE:
1) REFER TO ROADWAY CONSTRUCTION NOTES FOR CONSTRUCTION DETAILS.

PAVEMENT STRUCTURE (PUMPING STATION PARKING LOT)

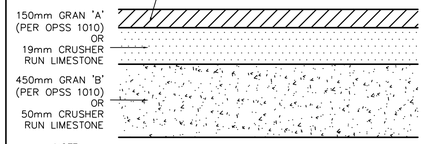
SCALE: N.T.S.



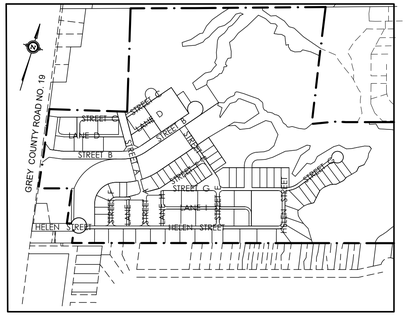
NOTE:
REFER TO CONSTRUCTION NOTES FOR DETAILS ON COMPACTION. PAVEMENT STRUCTURE BASED ON GEOTECHNICAL CONSULTANTS RECOMMENDATIONS.

HELEN STREET PARKING LOT PAVEMENT STRUCTURE DETAIL (HEAVY DUTY COMPONENT)

NTS

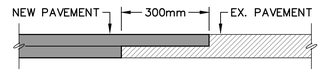


NOTE:
1) REFER TO ROADWAY CONSTRUCTION NOTES FOR CONSTRUCTION DETAILS.

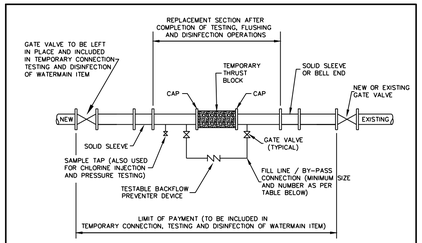


LAP JOINT DETAIL

SCALE: N.T.S.



NOTE:
SAWCUT & COLD PLANE 300mm WIDE & 40mm DEEP WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT, ROUTE & SEAL WITH HOT RUBBERIZED ASPHALT.



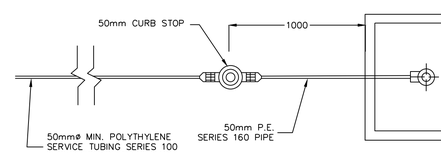
PIPE DIAMETER	FLOW REQUIRED TO PRODUCE 0.76m/s (APPROX) VELOCITY IN MAIN	SIZE OF TAP (mm)			NUMBER OF OPEN 64mm HYDRANT OUTLETS
		25	38	51	
mm	l/s	NUMBER OF TAPS ON PIPE			
100	6.3	1	–	–	1
150	12.6	–	1	–	1
200	25.2	–	2	1	1
250	37.9	–	3	2	1
300	56.8	–	–	2	2
400	109.9	–	–	4	2

REQUIRED FLOW AND OPENINGS TO FLUSH PIPELINES (276 kPa/40 PSI RESIDUAL PRESSURE IN WATERMAIN)

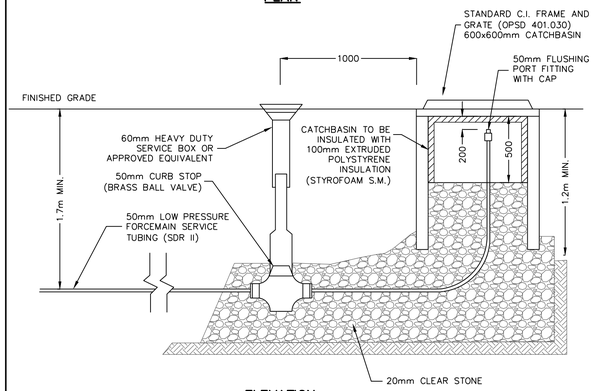
TYPICAL TEMPORARY CONNECTION FOR WATERMAINS
NTS

TYPICAL LOW PRESSURE SANITARY FORCEMAIN FLUSHING CONNECTION

N.T.S.



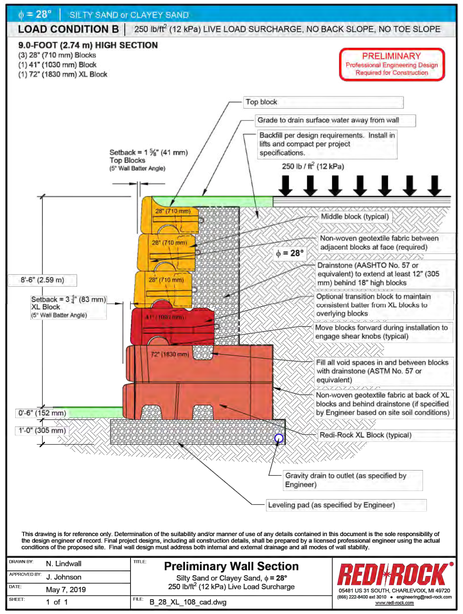
PLAN



ELEVATION

NOTES:
1. ACTUAL TUBING, VALVE AND FITTING SIZE FOR TERMINAL CLEANOUT TO MATCH FORCEMAIN SIZE. FOR SIZES LARGER THAN ABOVE, SUBMIT SHOP DRAWINGS FOR APPROVAL.
2. ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT WHERE NOTED.

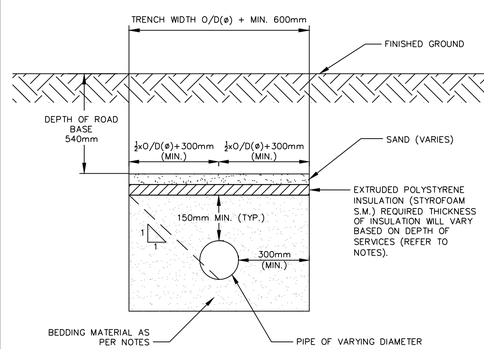
REDI-ROCK RETAINING WALL TYPICAL DETAIL NTS



NOTE:
1) CONTRACTOR TO OBTAIN SEALED SHOP DRAWING FOR RETAINING WALLS TALLER THAN 1.0m AND PROVIDE TO THE ENGINEER FOR REVIEW.
2) WALLS HIGHER THAN 0.6m TO BE BUILT WITH PEDESTRIAN BARRICADE PER OPSD 980.101.

INSULATION FOR VARIOUS INFRASTRUCTURE

N.T.S.



NOTES:
1. AS PER O.B.C. A.7.3.5.4:
   COVER OVER THE INSULATION IS BETWEEN 0.6 TO 0.9m – USE 50mm INSULATION
   COVER OVER THE INSULATION IS BETWEEN 0.9 TO 1.2m – USE 40mm INSULATION
   COVER OVER THE INSULATION IS BETWEEN 1.2 TO 1.8m – USE 25mm INSULATION
2. MIN. COVER REQUIREMENTS:
   STORM SEWER – 1.5m (TO SPRINGLINE FOR 525ø OR LARGER) – 1.5m (TO CROWN FOR SMALLER THAN 525ø)
   WATERMAINS – 1.7m (TO CROWN)
   SANITARY SEWER – 1.6m (TO CROWN OF PIPE)
3. INSULATION SHALL BE PLACED WITH ENDS CLOSELY LOCATED TOGETHER.
4. ALL JOINTS SHALL BE STAGGERED WHEN MORE THAN ONE LAYER OF INSULATION IS BEING INSTALLED.

1. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & ASSOCIATES INC. AND THE REPRODUCTION OF ANY PART WITHOUT PRIOR WRITTEN CONSENT OF THIS OFFICE IS STRICTLY PROHIBITED.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, AND DATUMS ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO THIS OFFICE PRIOR TO CONSTRUCTION.
3. THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT.
4. DO NOT SCALE THE DRAWINGS.
5. ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

TEMPORARY BENCHMARKS

SBM#1–ELEVATION: 227.78
CONCRETE PIN IN HYDRO POLE AT SOUTH EAST CORNER OF GREY ROAD No. 19 AND STREET B INTERSECTION.

No.	ISSUE / REVISION	DATE: MM/DD/YYYY
3	THIRD SUBMISSION	12/22/2022
4	ISSUED FOR FOURTH SUBMISSION (CHANNEL ONLY)	08/25/2023
5	ISSUED FOR APPROVAL	10/23/2023
6	ISSUED FOR FOURTH SUBMISSION	03/14/2024
7	ISSUED FOR FIFTH SUBMISSION	06/04/2024
8	RE-ISSUED FOR FIFTH SUBMISSION	07/02/2024
9	ISSUED FOR SIXTH SUBMISSION	08/09/2024
10	ISSUED FOR SEVENTH SUBMISSION	08/20/2024

Engineer [redacted]
Engineer [redacted]

Project
HOME FARM
TOWN OF THE BLUE MOUNTAINS

Drawing
GENERAL NOTES/DETAIL PLAN

Town [redacted]

B.B.	B.B.		721-3464
1:1000	DEC 10, 2021	J.E./R.W.	DT3