VOLUME III DRAWING SET

DESIGN OF A SUBDIVISION
IN MAPLE RIDGE, BC

CONSULTANT:
West Coast Civil Consultants
COMPUTER # 3
SW1 - 1080 3700 WILLOUGHBY AVENUE
BURNABY, BC V5G 3H2

SPONSOR:
URBAN systems
550-1090 HOMER STREET
VANCOUVER, BC V6B 2W9

DRAWING INDEX
1. COVER SHEET
2. EXISTING CONDITIONS
3. PRELIMINARY LAYOUT - OPTION 1
4. PRELIMINARY LAYOUT - OPTION 2
5. KEY PLAN
6. GRADING PLAN
7. GRADING PLAN - LOT ELEVATIONS
8. ROAD WORKS - ROAD A PLAN
9. ROAD WORKS - ROAD A PROFILE
10. ROAD WORKS - ROAD B PLAN
11. ROAD WORKS - ROAD B PROFILE
12. ROAD WORKS - ROAD B PROFILE
13. ROAD WORKS - ROAD C PLAN & PROFILE
14. ROAD WORKS - ROAD C PLAN & PROFILE
15. ROAD WORKS - TYPICAL SECTION
16. SANITARY WORKS - ROAD B PLAN
17. SANITARY WORKS - ROAD B PROFILE
18. SANITARY WORKS - EASEMENT PLAN & PROFILE
19. SANITARY WORKS - ROAD A (WEST)
20. SANITARY WORKS - ROAD A (EAST) PLAN
21. SANITARY WORKS - ROAD A (EAST) PROFILE
22. SANITARY WORKS - CUL-DE-SAC PLAN
23. SANITARY WORKS - CUL-DE-SAC PROFILE
24. WATER WORKS - ROAD A PLAN
25. WATER WORKS - ROAD A PROFILE
26. WATER WORKS - ROAD B PLAN
27. WATER WORKS - ROAD B PROFILE
28. WATER WORKS - ROAD B PROFILE
29. WATER WORKS - ROAD B PROFILE
30. WATER WORKS - ROAD C PLAN & PROFILE
31. STORM SEWER PLAN - ROAD A
32. STORM SEWER PROFILE - ROAD A
33. STORM SEWER PLAN - ROAD B
34. STORM SEWER PROFILE - ROAD B
35. STORM SEWER PLAN / PROFILE - ROAD C
36. STORM SEWER PLAN / PROFILE - EASEMENT 1
37. STORM SEWER PLAN / PROFILE - EASEMENT 2
38. DETENTION POND PLAN / PROFILE
39. DETENTION POND DETAILS
40. SANITARY PUMP STATION DETAILS
41. RETAINING WALL DESIGN
42. ESC STAGE 1
43. ESC STAGE 2
44. ESC STAGE 3

MARCH 2015
WEST COAST CIVIL CONSULTANTS
EXISTING CONDITIONS

DESIGN OF A SUBDIVISION
IN MAPLE RIDGE, BC
GRADING PLAN
LOT ELEVATIONS

DESIGN OF A SUBDIVISION
IN MAPLE RIDGE, BC
ROAD A - PROFILE STA: 1+000 TO STA: 1+260
ROAD A - PROFILE STA: 1+260 TO STA: 1+361
SANITARY WORKS NOTES
1. ALL WORKS ARE TO BE PERFORMED IN ACCORDANCE WITH THE SAWS DESIGNER SPECIFICATIONS AND PROCEDURES.
2. ALL SANITARY SEWER SERVICE CONDUITS ARE TO BE A MINIMUM DIAMETER (MATERIAL OTHER THAN PVC) AS PER THE SANITARY ENGINEER'S SPECIFICATIONS.
3. ALL SANITARY SEWER SECTIONS SHALL BE TYPICALLY T-1000 TUBE AS PER THE SANITARY ENGINEER'S SPECIFICATIONS AND STANDARD DETAIL DRAWINGS.
4. DRAINAGE AND SANITARY SEWER SECTIONS TO BE CONSTRUCTED TO USBC CODES.
5. DRAINAGE SECTIONS TO BE CONSTRUCTED TO USBC CODES.
6. DRAINAGE SECTIONS TO BE CONSTRUCTED TO USBC CODES.

SANITARY SEWER PLAN – ROAD B

DESIGN OF A SUBDIVISION
IN MAPLE RIDGE, BC
SANITARY SEWER PLAN - EASEMENT

SANITARY SEWER PROFILE - STA: 0+320 TO 0+480
SANITARY SEWER PLAN – ROAD A (WEST)

SANITARY SEWER PROFILE – ROAD A (WEST)

SANITARY WORKS

DESIGN OF A SUBDIVISION
IN MAPLE RIDGE, BC
SANITARY SEWER PLAN - ROAD A (EAST)
SANITARY SEWER PLAN – CUL DE SAC

DESIGN OF A SUBDIVISION
IN MAPLE RIDGE, BC
WATER MAIN NOTES:
1. All concrete, iron, concrete, and iron main connections to be a minimum of three (3) ft.
2. Where sewer main pipe is used in lieu of the concrete main, all connections shall be to a depth of six feet (6') or shall connect to a concrete line at least (3') below grade.
3. Water main or sewer main pipe lines to make water main connections and sewer main pipe connections at least eight feet (8') below grade or two (2') below grade pipe is pre-placed in concrete or stone filling to ground level from main pipe where soil is filled.
4. Where pipe filling and material is not placed in concrete or stone filling to ground level, the pipe filling must be enclosed at grade level with a cover or fill, and then the pipe filling must be enclosed at grade level with a cover or fill.
5. Water mains shall be elevated to maintain a clear class area no pipe is placed.
6. All sanitary pipe sections and surrounding areas shall be at least four inches (4"") from concrete or stone filling to ground level.
7. Water main pipe section shall be such that the concrete is placed in stone filling to ground level, and then the pipe filling shall be enclosed at grade level with a cover or fill, and then the pipe filling shall be enclosed at grade level with a cover or fill.
8. All concrete, iron, and iron main connections to be a minimum of three (3) ft.
9. All water main vents to be determined by the local water department or city's specifications.
WATER MAIN PROFILE - ROAD A STA: 0+000 TO 0+240
WATER MAIN PROFILE - ROAD A STA: 0+240 TO 0+380
WATER MAIN PROFILE - ROAD B STA: 0+000 TO 0+300

DESIGN OF A SUBDIVISION
IN MAPLE RIDGE, BC
WATER MAIN PROFILE - ROAD B STA: 0+300 TO 0+380
ROAD A - PROFILE

NOTES

1. SEE DRGM FOR ROAD A SWMW DRAIN PLAN.
PUMP CHAMBER DETAILS

NOTES:
1. ALL CONSTRUCTION MATERIALS TO BE IN ACCORDANCE WITH CITY OF
   SUBDIVISION SPECIFICATIONS AND SEWER DRAWINGS AND
   WITH THE CURRENT CITY APPROVED EDITION OF THE針對 STANDARDS
   AND SPECIFICATIONS. SEE COMPLETE NOTES.
2. PUMP STATION PAD TO BE COVERED WITH CEMENT MIX AND OTHER PROPER STRUCTURAL
   MATERIALS TO BE ORDERED FROM PATTON, RICK AND OTHER PROPER STRUCTURAL.
3. STRUCTURAL DESIGN OF FIBERGLASS SHEET METAL FIBERGLASS PIPING
   SUPPORTS, AND OTHER TO BE EXECUTED BY A PROFESSIONAL
   ENGINEER.
4. MATERIALS AND FITTINGS TO BE SUITABLE FOR WORKING PRESSURE OF
   300 PSI.
5. ALL METALWORK TO BE Precision OR STAINLESS STEEL WHERE
   SHOWN.
6. DISCHARGE (HO) MOUNTING BOLTS TO SUIT PUMPS.
7. PUMP STATION PUMP TO BE COLOCATED HOPE TO PREVENT DRAINAGE UNDER HIGH-WATER LEVEL FORCE.

SECTION B-B – BASE LAYOUT

SECTION A-A – PUMPS LAYOUT

DESIGN OF A SUBDIVISION
IN MAPLE RIDGE, BC
EROSION AND SEDIMENT CONTROL PLAN

STAGE 1 - CLEARING, ROAD STRIPPING, GRAVELLING, AND ROUGH GRADING STAGE

DESIGN OF A SUBDIVISION IN MAPLE RIDGE, BC
STAGE 2 - UTILITY AND ROADWORKS INSTALLATION
STAGE 3 - FINAL GRADING TO SUBSTANTIAL COMPLETION

EROSION AND SEDIMENT CONTROL PLAN
DESIGN OF A SUBDIVISION IN MAPLE RIDGE, BC
EROSION AND SEDIMENT CONTROL

DESIGN OF A SUBDIVISION
IN MAPLE RIDGE, BC

NOTES
1. IF THE CONTRACTOR’S INSTRUMENTS DO NOT PERMIT THE DESIGNER OR CONTRACTOR TO DETERMINE THE APPROPRIATE SITES FOR EROSION AND SEDIMENT CONTROL WORKING DURING CONSTRUCTION
2. ALL EROSION CONTROL MUST BE CONSTRUCTED TO CONFORM TO LOCAL REGULATIONS AND REQUIREMENTS AS PER THE CONTRACTOR’S SCHEDULE.
3. THE OWNER IS RESPONSIBLE FOR THE MAINTENANCE OF EROSION AND SEDIMENT CONTROL WORKS DURING AND AFTER CONSTRUCTION.
4. THE OWNER IS RESPONSIBLE FOR THE MAINTENANCE OF EROSION AND SEDIMENT CONTROL WORKS DURING NORMAL OPERATIONAL USE.
5. THE OWNER IS RESPONSIBLE FOR THE MAINTENANCE OF EROSION AND SEDIMENT CONTROL WORKS DURING NORMAL OPERATIONAL USE.
6. THE OWNER IS RESPONSIBLE FOR THE MAINTENANCE OF EROSION AND SEDIMENT CONTROL WORKS DURING NORMAL OPERATIONAL USE.
7. THE OWNER IS RESPONSIBLE FOR THE MAINTENANCE OF EROSION AND SEDIMENT CONTROL WORKS DURING NORMAL OPERATIONAL USE.

SEGMENT CONTROL NOTES
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.

STAGE 1
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.

STAGE 2
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.

STAGE 3
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATE SEQUENCE OF SECTIONS FOR THE CONTROL OF SEDIMENT AND EROSION.

GRAPHIC SCALE

SCALE: 1:1000

EORostaID 17559049
[NAME REMOVED] 17753084
[NAME REMOVED] 17753085
[NAME REMOVED] 17753086