VOLUME III DRAWING SET

DESIGN OF A SUBDIVISION IN MAPLE RIDGE, BC

CONSULTANT:



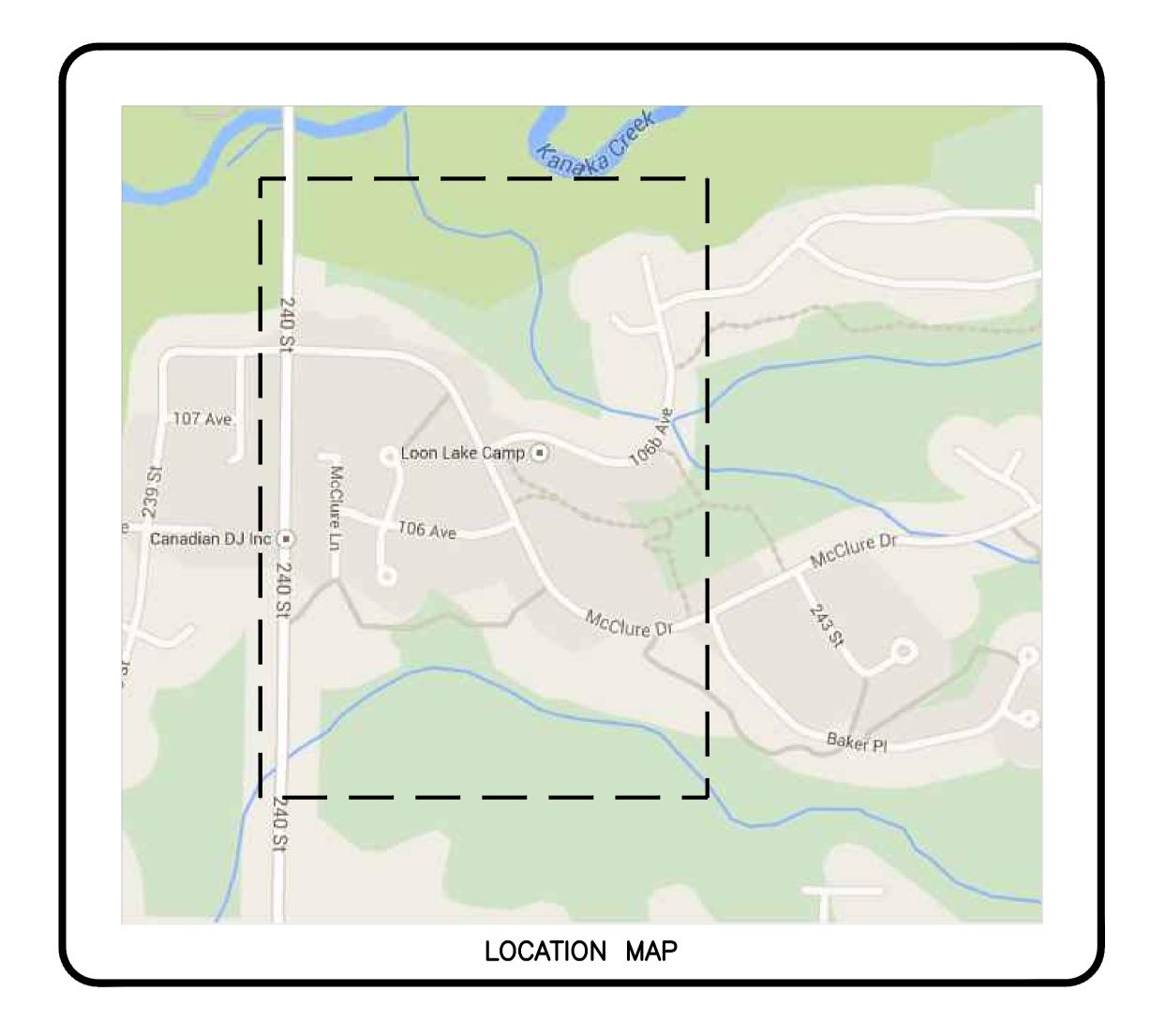
COMPUTER # 3 SW1 - 1080 3700 WILLINGDON AVENUE BURNABY, BC V5G 3H2

CAPSTONE GROUP# 6

SPONSOR:



550-1090 HOMER STREET VANCOUVER, BC V6B 2W9



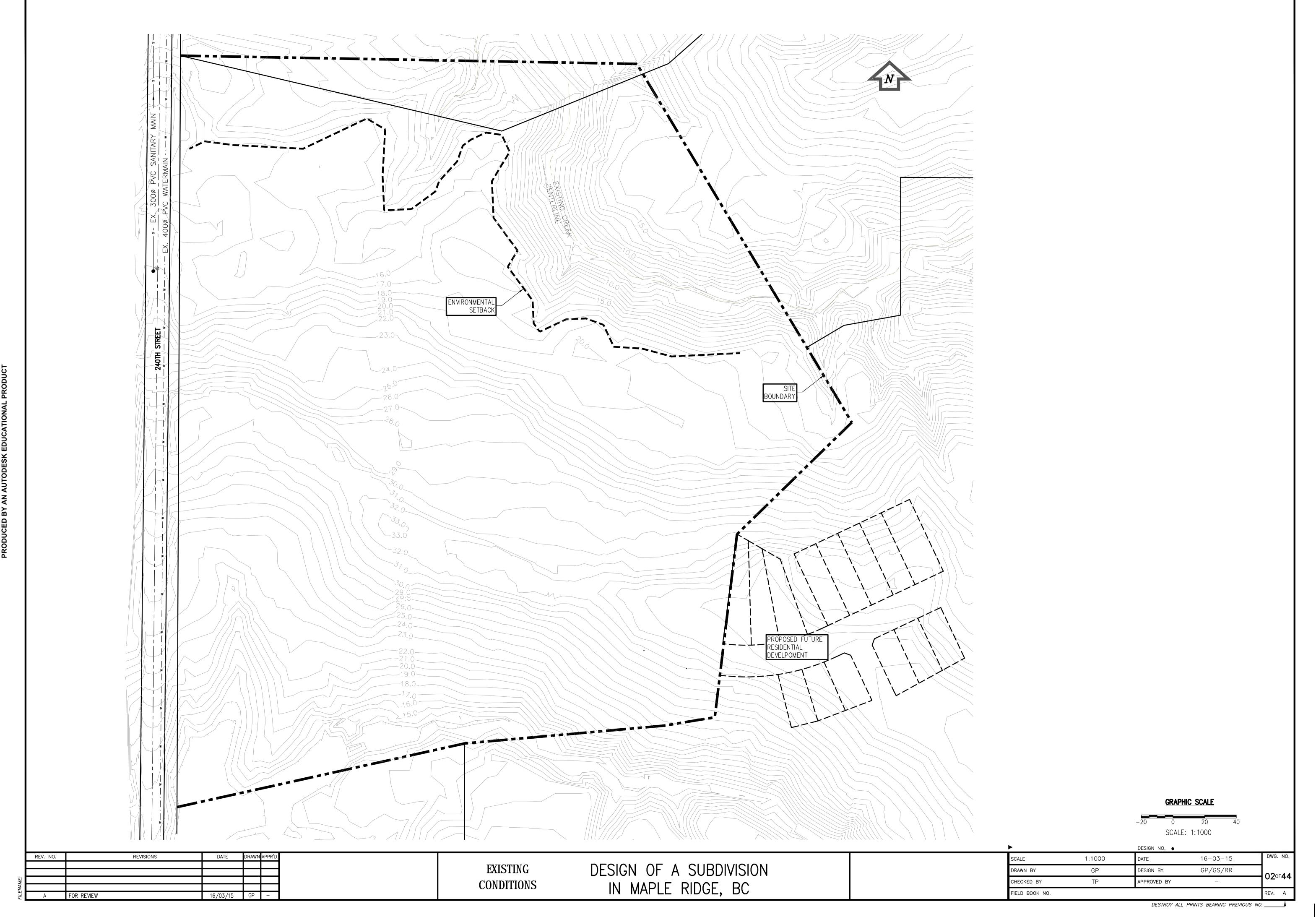
DRAWING INDEX

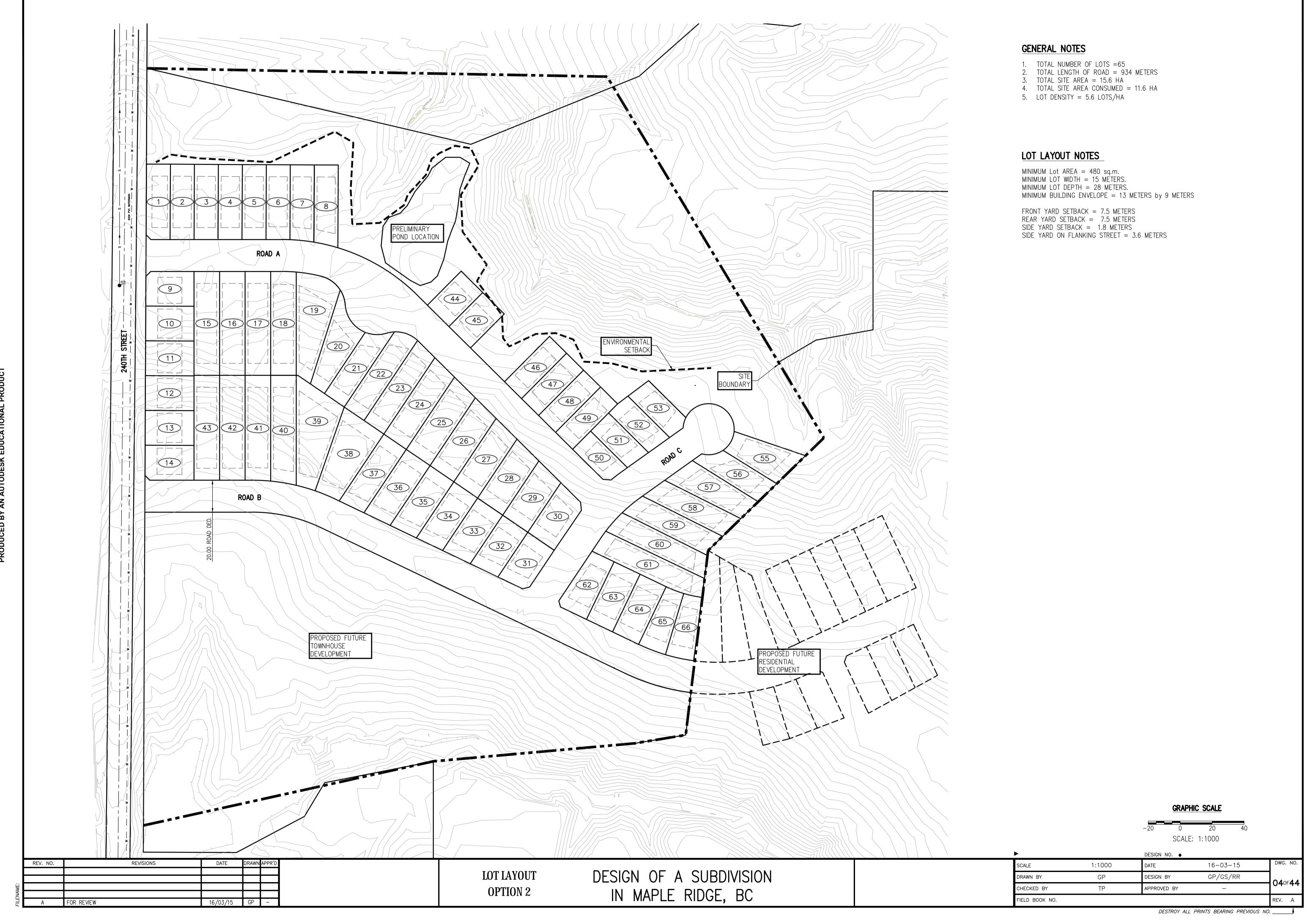
- 1. COVER SHEET
- 2. EXISTING CONDITIONS
- 3. PRELIMINARY LAYOUT OPTION 1
- 4. PRELIMINARY LAYOUT OPTION 2
- 5. KEYPLAN
- 6. GRADING PLAN
- 7. GRADING PLAN LOT ELEVATIONS
- 8. ROAD WORKS ROAD A PLAN
- 9. ROAD WORKS ROAD A PROFILE 10. ROAD WORKS — ROAD A PROFILE
- 11. ROAD WORKS ROAD B PLAN
- 12. ROAD WORKS ROAD B PROFILE
- 13. ROAD WORKS ROAD B PROFILE
- 14. ROAD WORKS ROAD C PLAN & PROFILE
- 15. ROAD WORKS TYPICAL SECTION

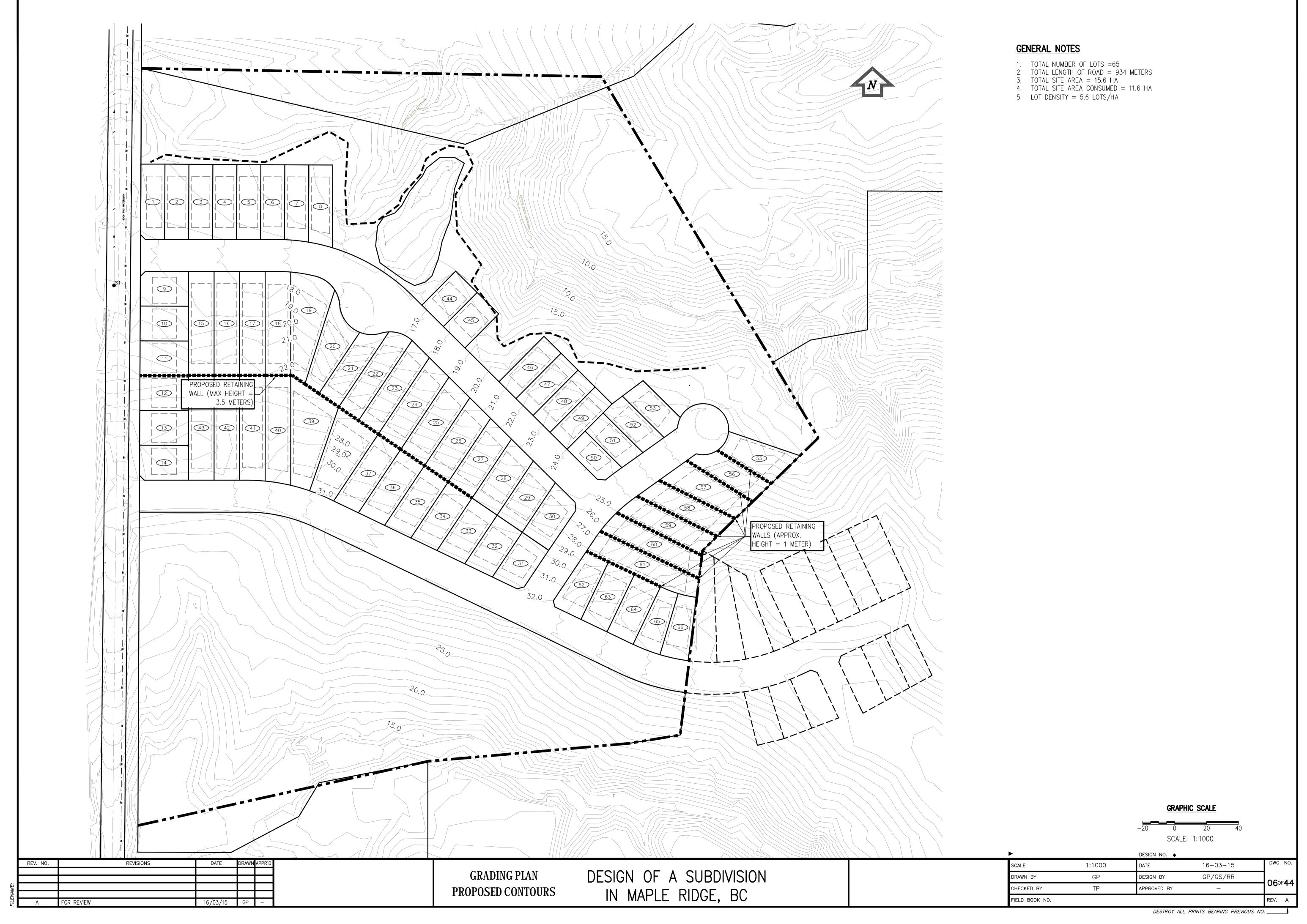
- 16. SANITARY WORKS ROAD B PLAN
- 17. SANITARY WORKS ROAD B PROFILE
- 18. SANITARY WORKS EASEMENT PLAN & PROFILE 33. STORM SEWER PLAN ROAD B
- 19. SANITARY WORKS ROAD A (WEST)
- 20. SANITARY WORKS ROAD A (EAST) PLAN
- 21. SANITARY WORKS ROAD A (EAST) PROFILE
- 22. SANITARY WORKS CUL-DE-SAC PLAN
- 23. SANITARY WORKS CUL-DE-SAC PROFILE
- 24. WATER WORKS ROAD A PLAN
- 25. WATER WORKS ROAD A PROFILE
- 26. WATER WORKS ROAD A PROFILE
- 27. WATER WORKS ROAD B PLAN
- 28. WATER WORKS ROAD B PROFILE
- 29. WATER WORKS ROAD B PROFILE
- 30. WATER WORKS ROAD C PLAN & PROFILE

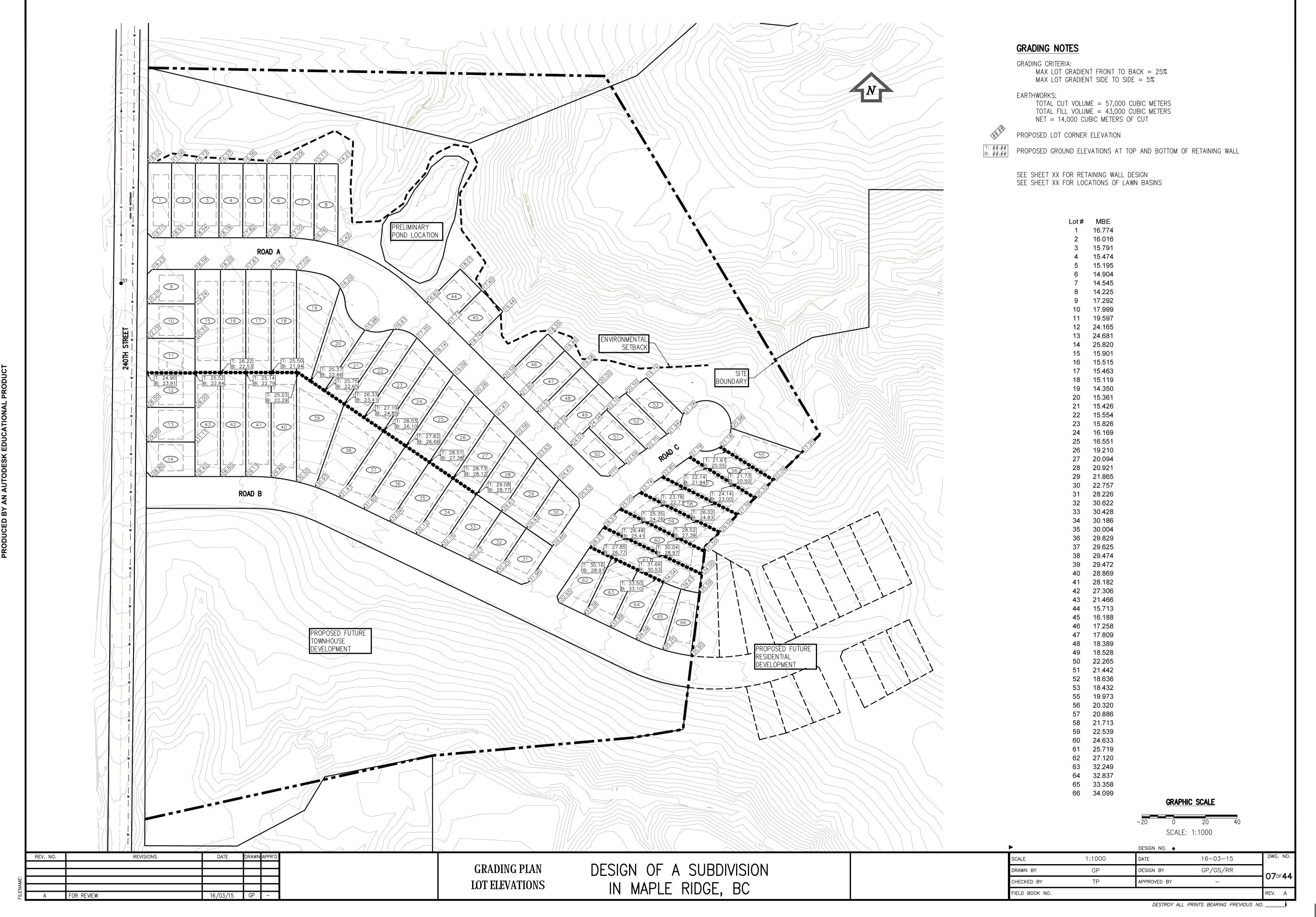
- 31. STORM SEWER PLAN ROAD A
- 32. STORM SEWER PROFILE ROAD A
- 34. STORM SEWER PROFILE ROAD B
- 35. STORM SEWER PLAN / PROFILE ROAD C
- 36. STORM SEWER PLAN / PROFILE EASEMENT 1
- 37. STORM SEWER PLAN / PROFILE EASEMENT 2
- 38. DETENTION POND PLAN / PROFILE
- 39. DETENTION POND DETAILS
- 40. SANITARY 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









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GP/GS/RR

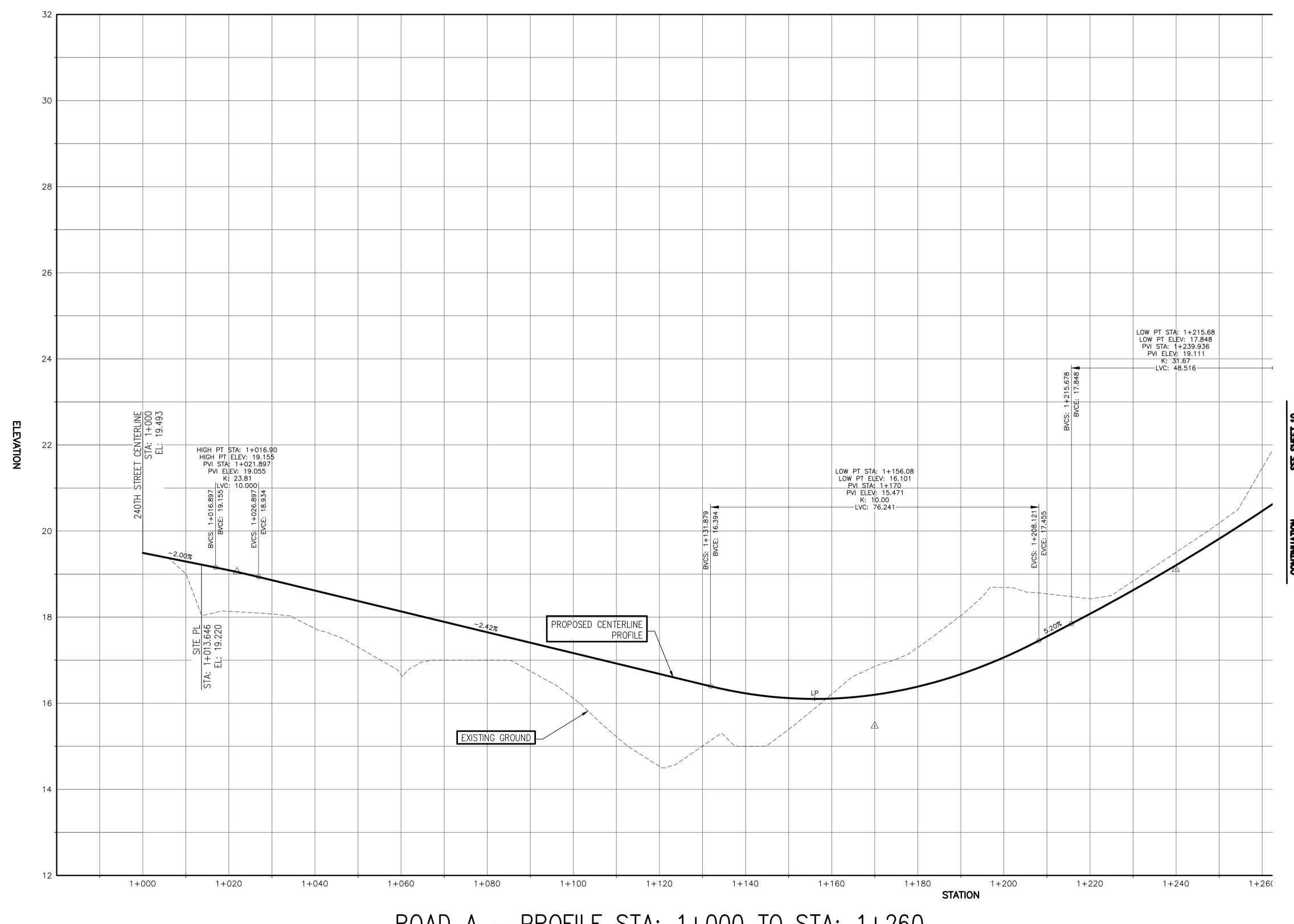
ROAD WORKS

16/03/15 GP -

DESIGN OF A SUBDIVISION

IN MAPLE RIDGE, BC

SEE SHEET 08 FOR ROAD WORKS NOTES



ROAD A - PROFILE STA: 1+000 TO STA: 1+260



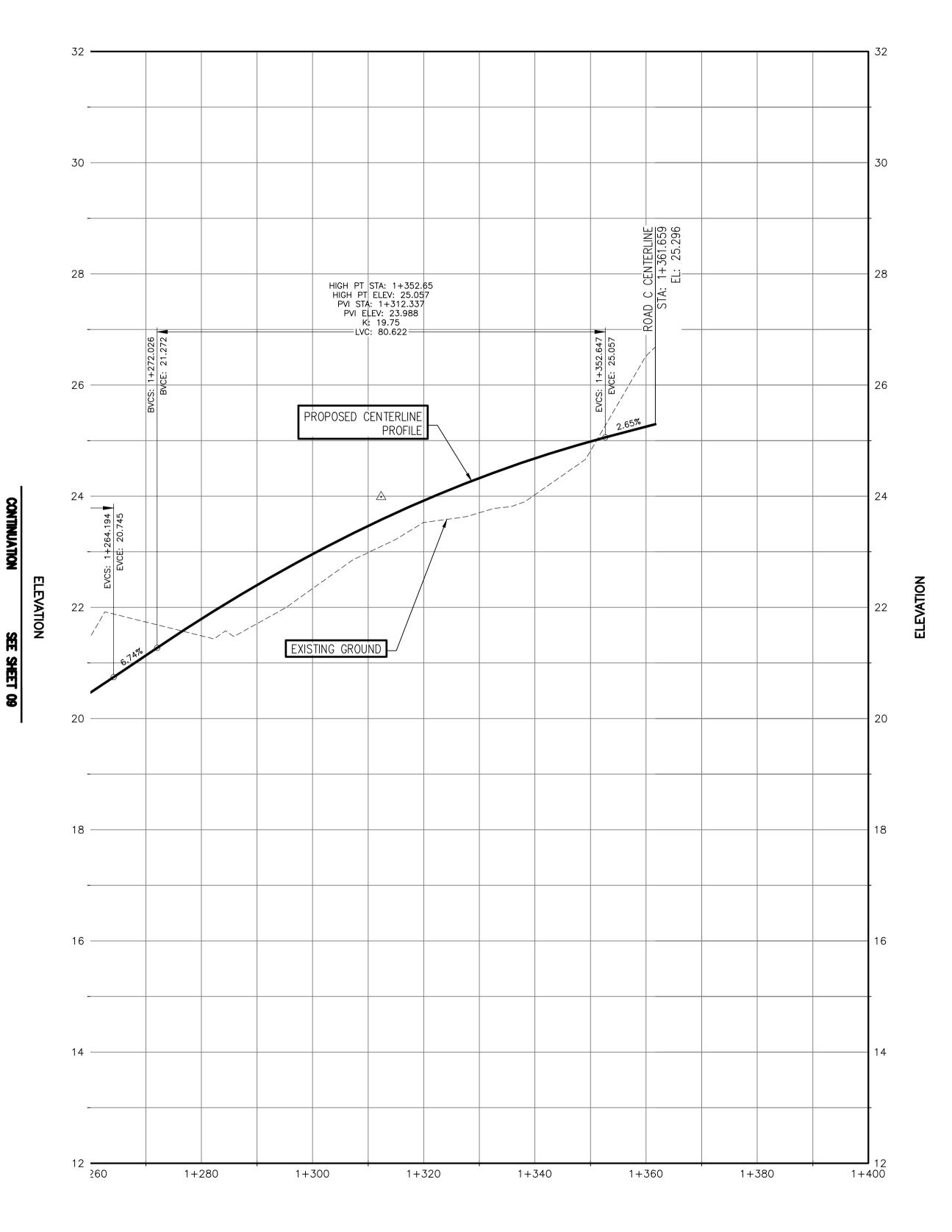
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REVISIONS



SEE SHEET 08 FOR ROAD WORKS NOTES



ROAD A - PROFILE STA: 1+260 TO STA: 1+361

GRAPHIC SCALE

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SCALE 1:500 DATE 16-03-15

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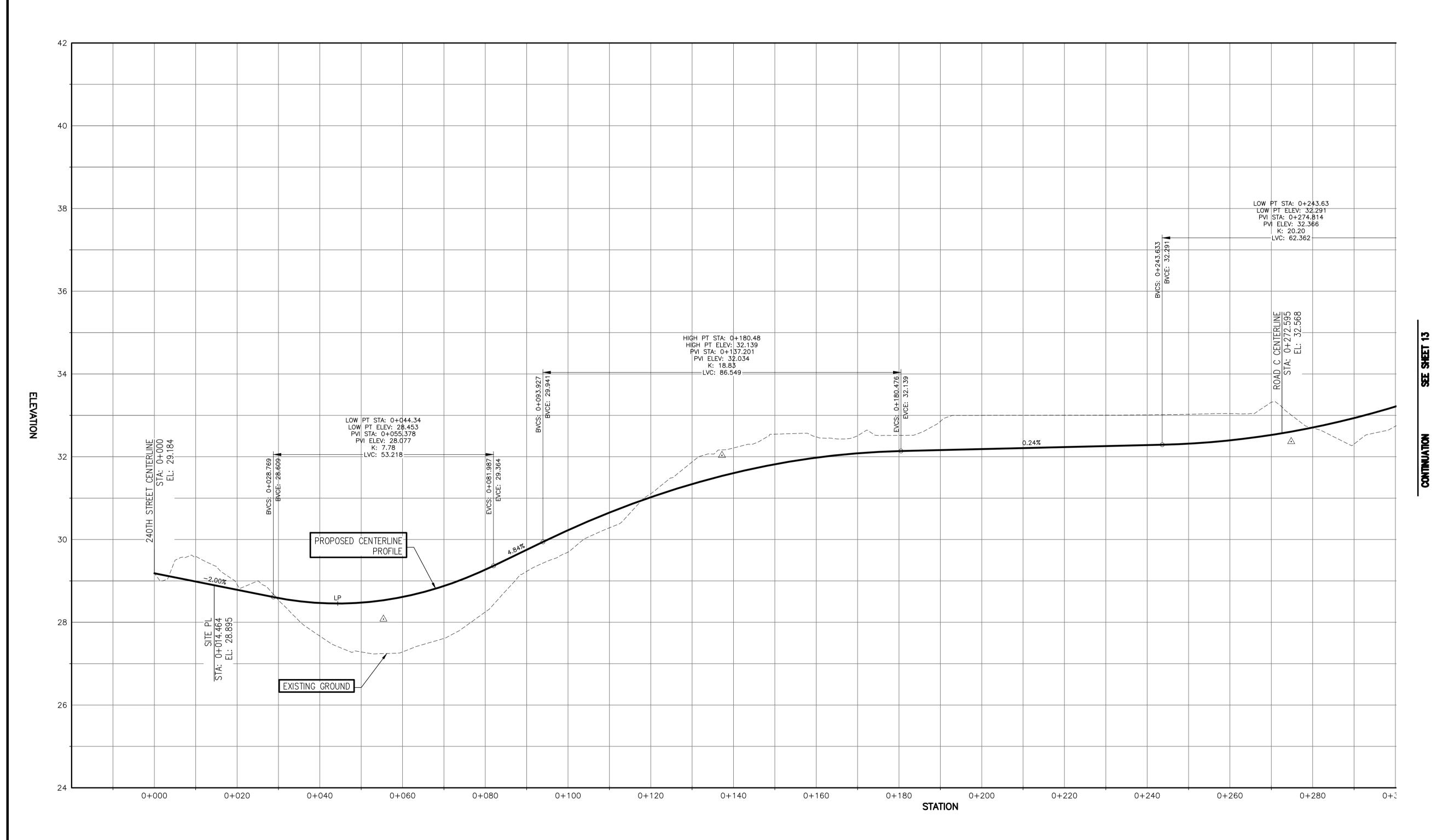
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ROAD WORKS

DESIGN OF A SUBDIVISION IN MAPLE RIDGE, BC



SEE SHEET 08 FOR ROAD WORKS NOTES



ROAD B - PROFILE STA: 0+000 TO STA: 0+300

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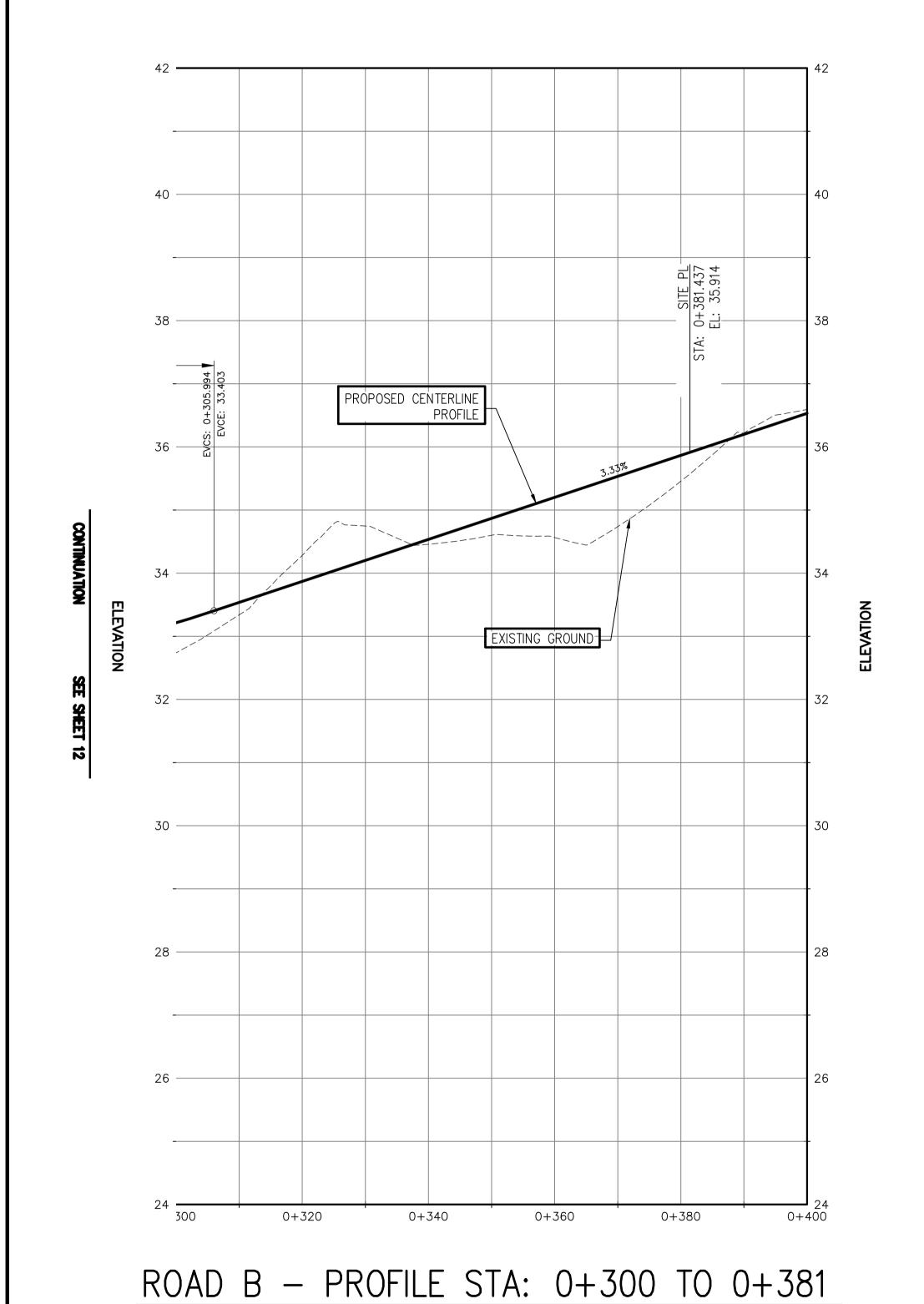
ROAD WORKS

DESIGN OF A SUBDIVISION IN MAPLE RIDGE, BC

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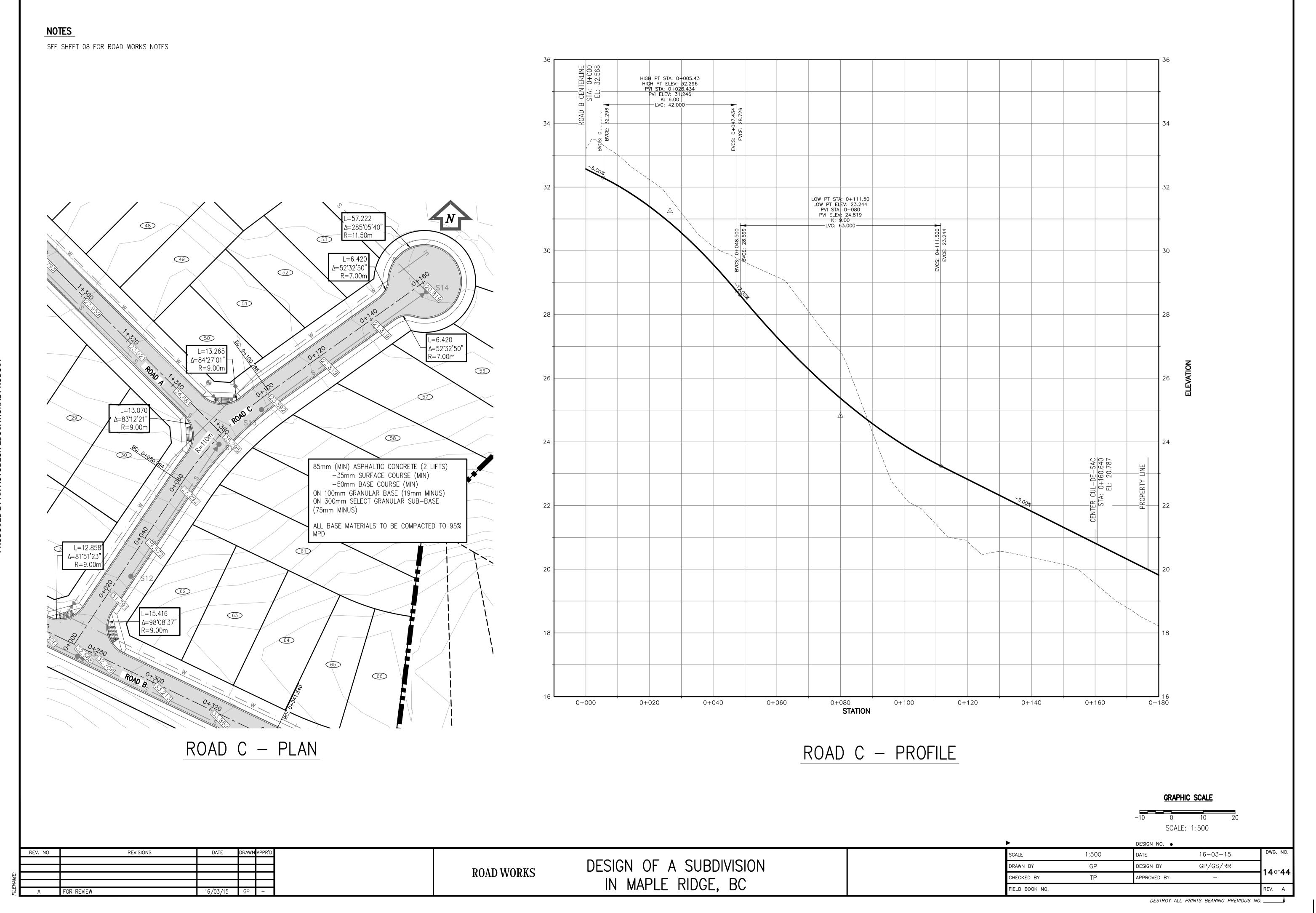


SEE SHEET 08 FOR ROAD WORKS NOTES

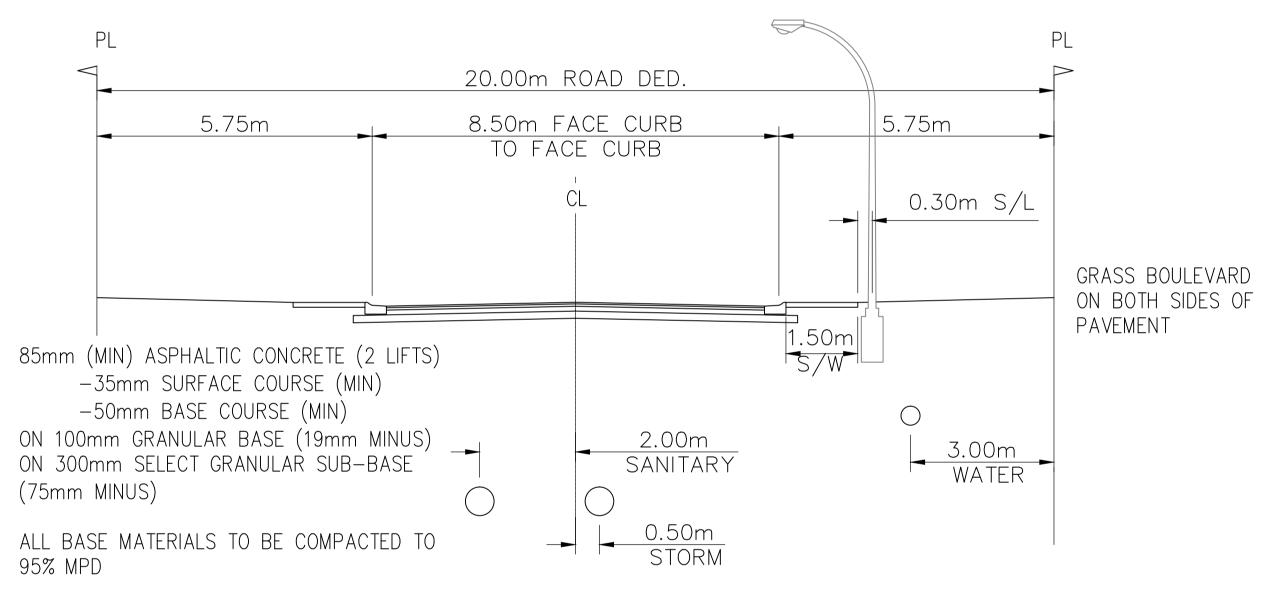
GRAPHIC SCALE

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REVISIONS 1:500 16-03-15 DESIGN OF A SUBDIVISION GP/GS/RR ROAD WORKS APPROVED BY IN MAPLE RIDGE, BC FIELD BOOK NO.



SEE SHEET ?? FOR ROAD WORKS NOTES



TYPICAL SECTION - ROAD A, B AND C SCALE : NTS

GRAPHIC SCALE

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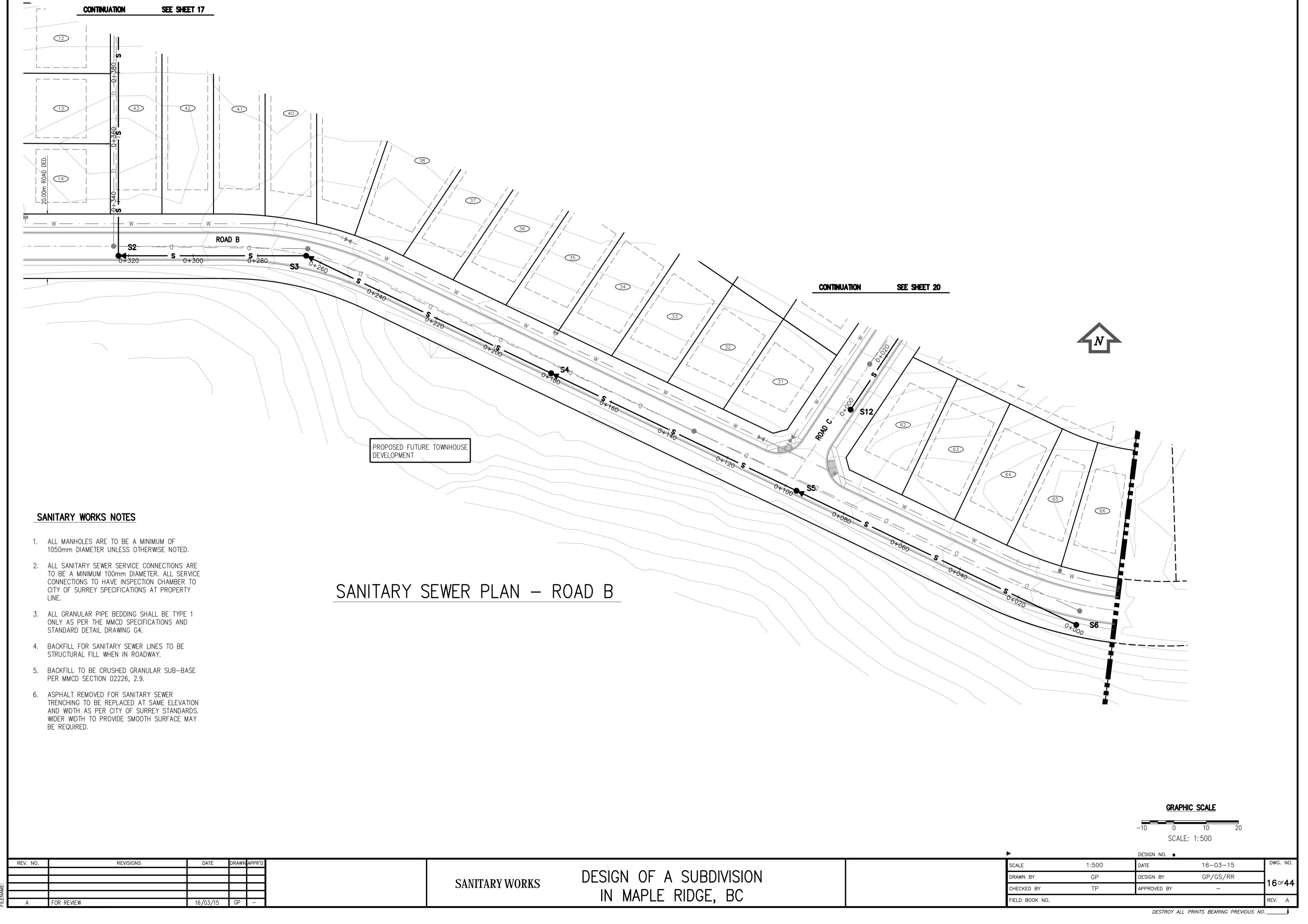
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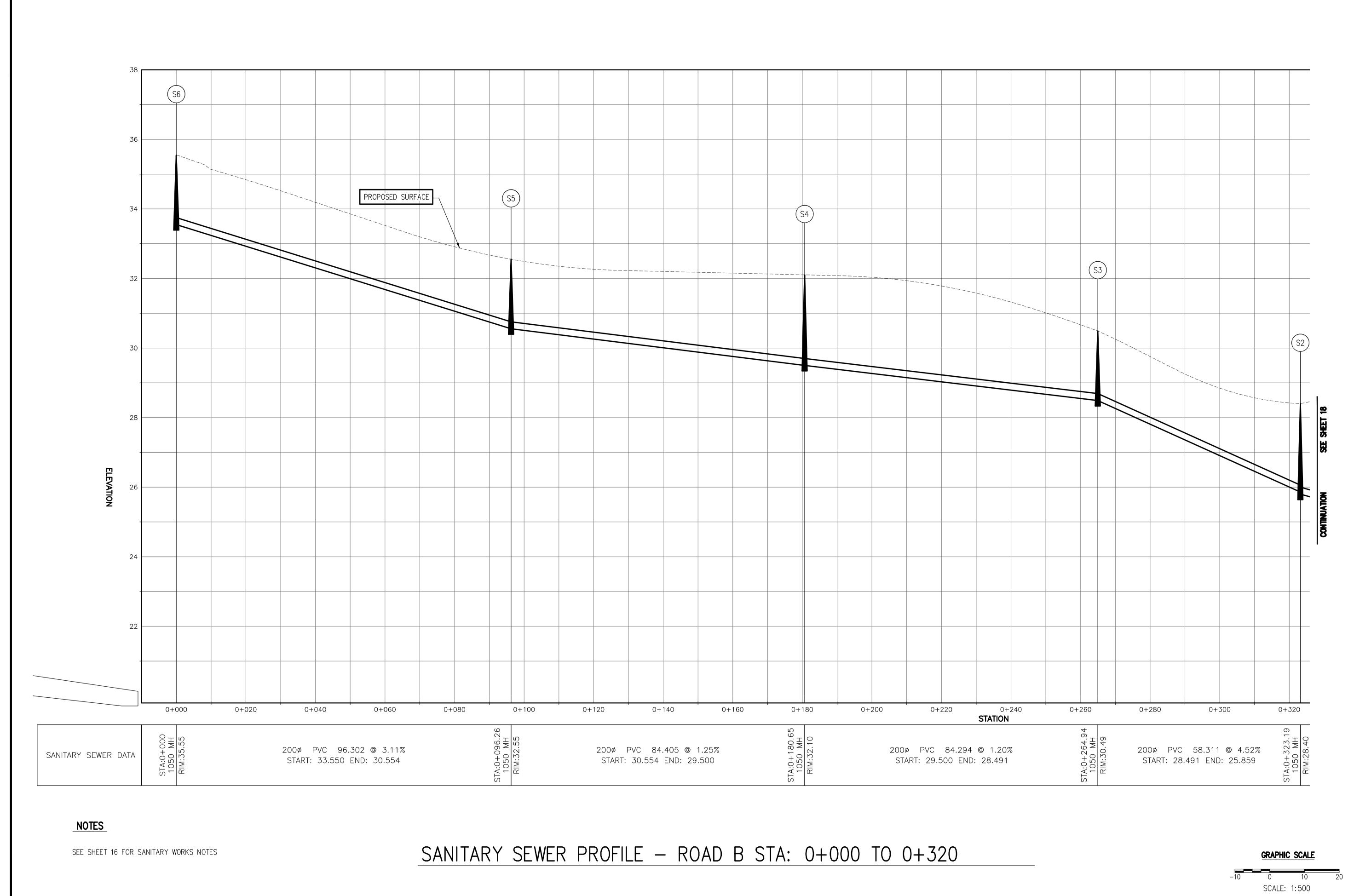
REV. NO. REVISIONS DATE FOR REVIEW 16/03/15 GP -

ROAD WORKS

DESIGN OF A SUBDIVISION IN MAPLE RIDGE, BC







REVISIONS

SANITARY WORKS

DESIGN OF A SUBDIVISION IN MAPLE RIDGE, BC

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DATE

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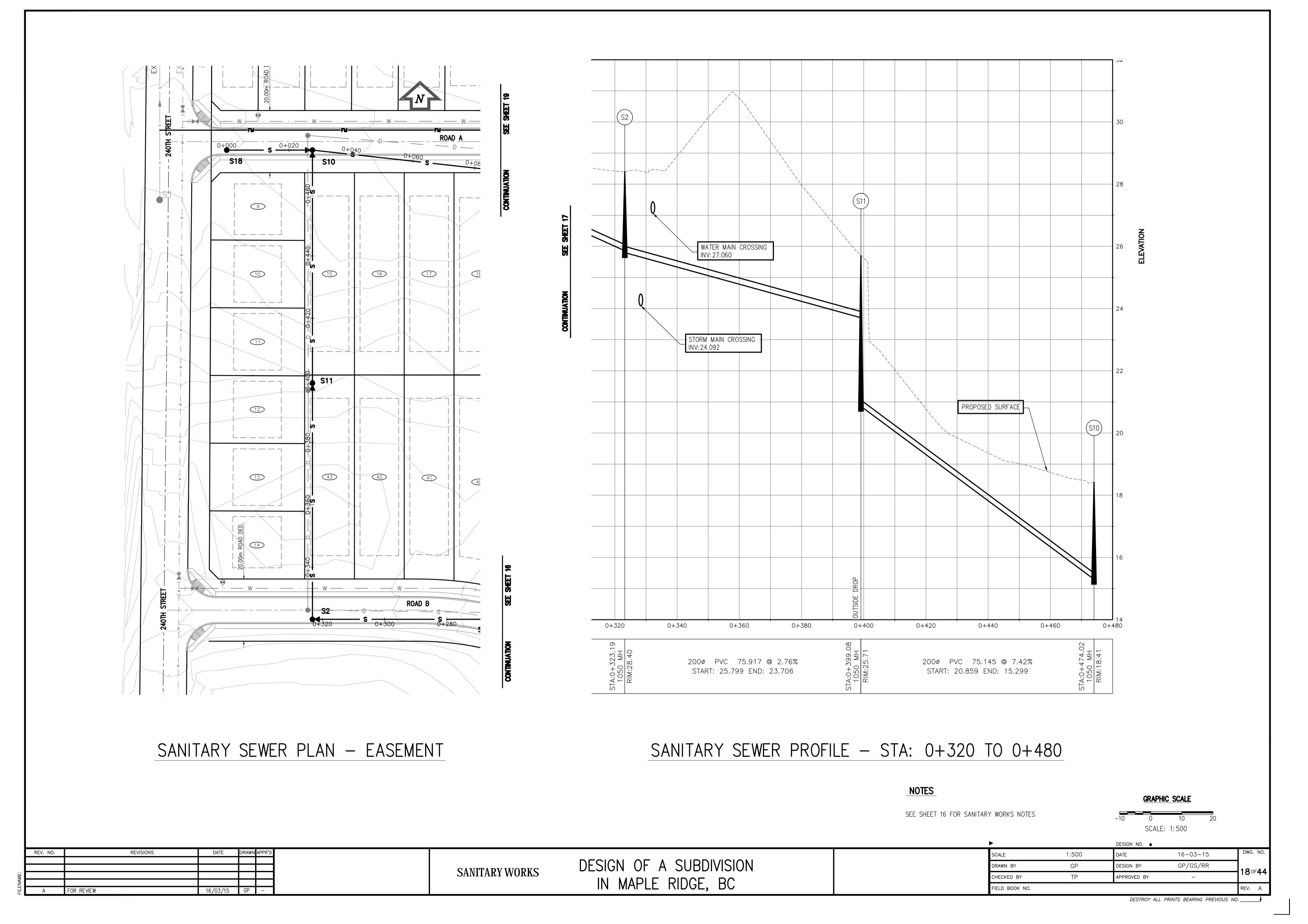
GP/GS/RR

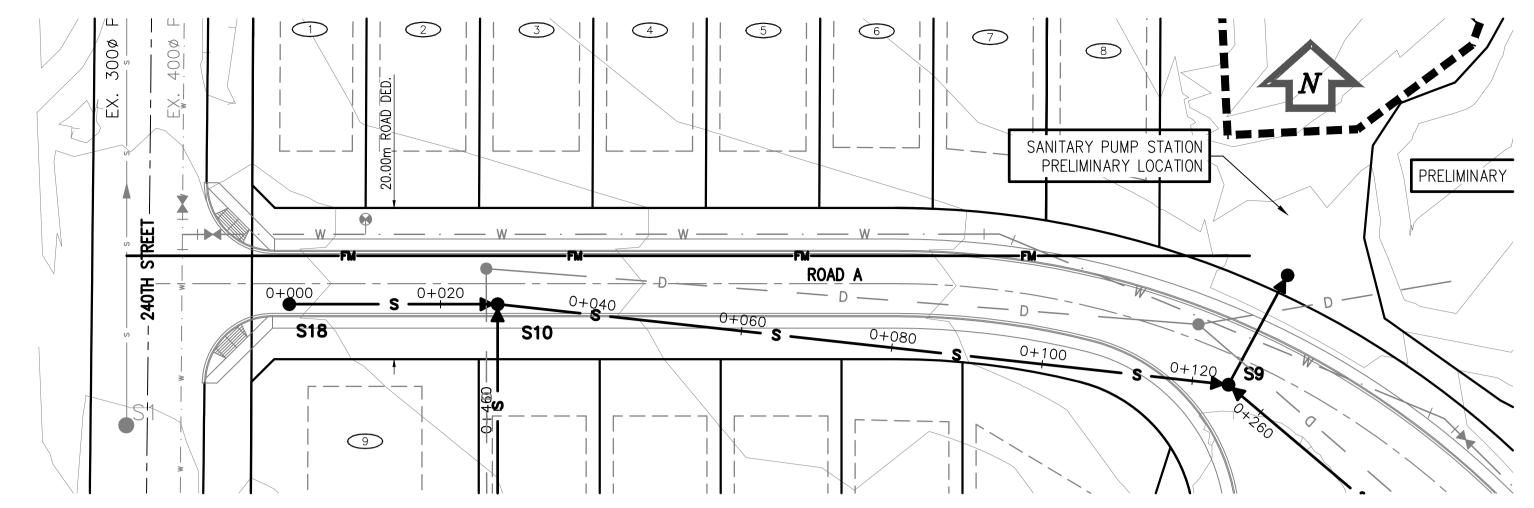
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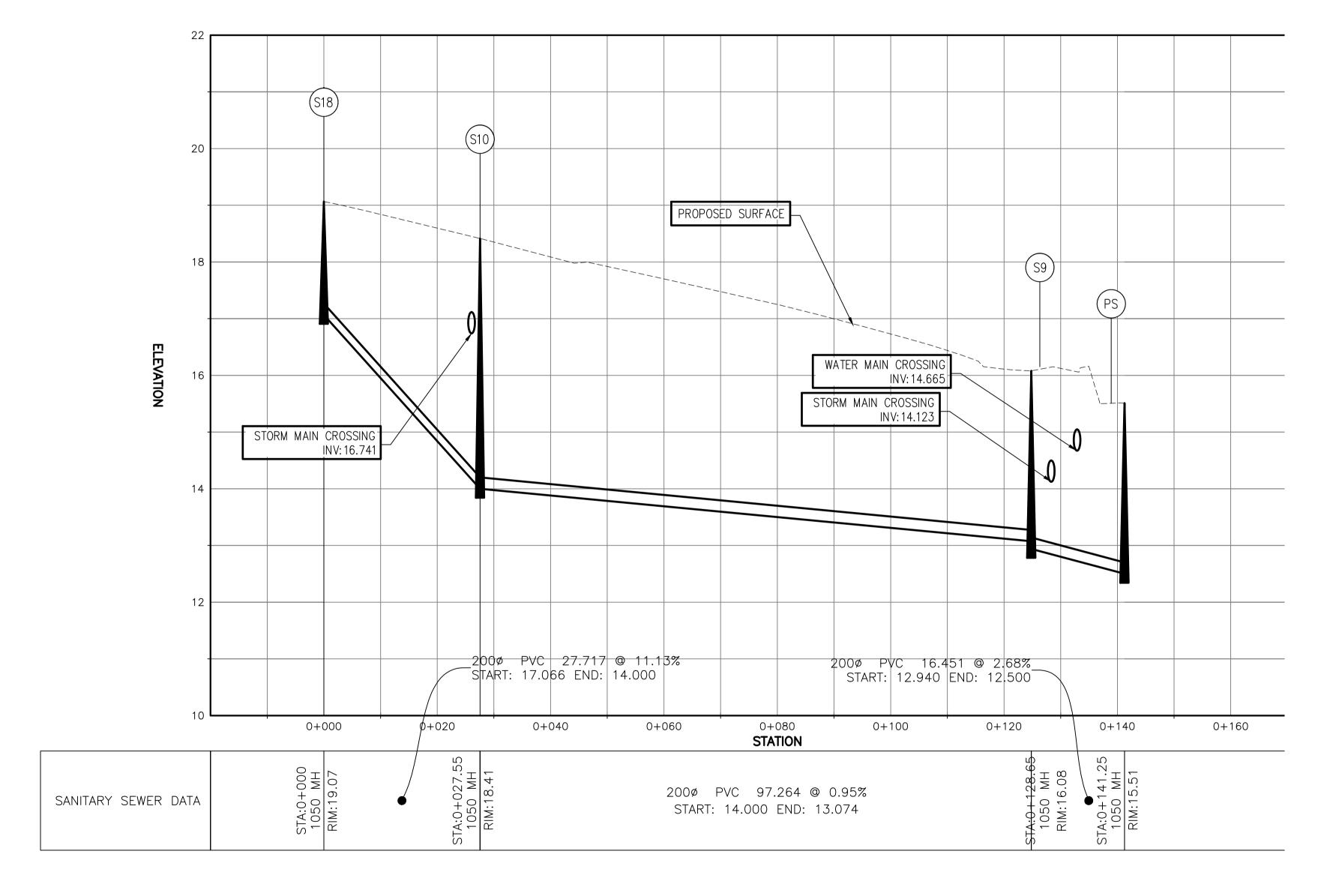
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DESTROY ALL PRINTS BEARING PREVIOUS NO. _









SANITARY SEWER PROFILE - ROAD A (WEST)

NOTES

SEE SHEET 16 FOR SANITARY WORKS NOTES

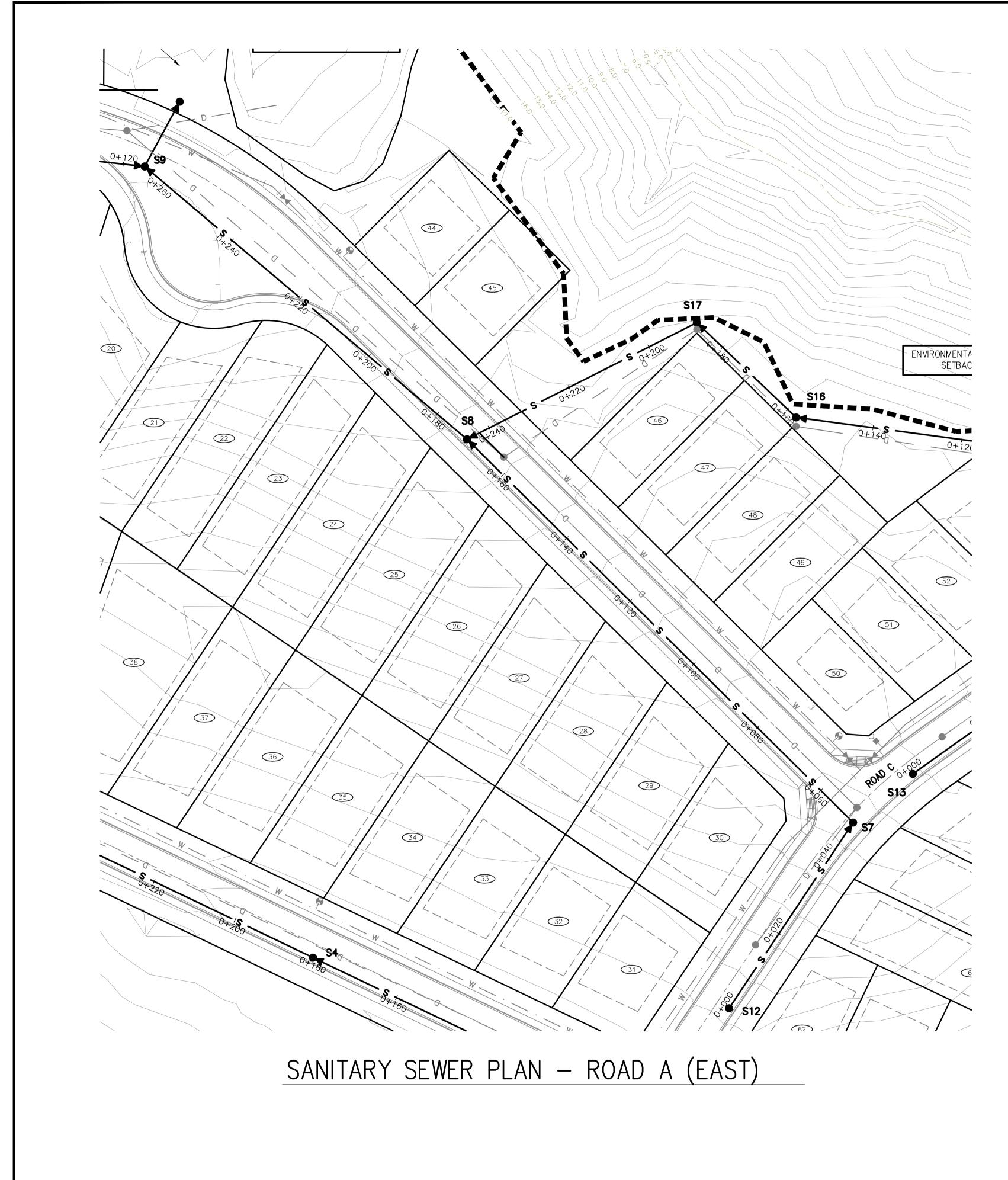
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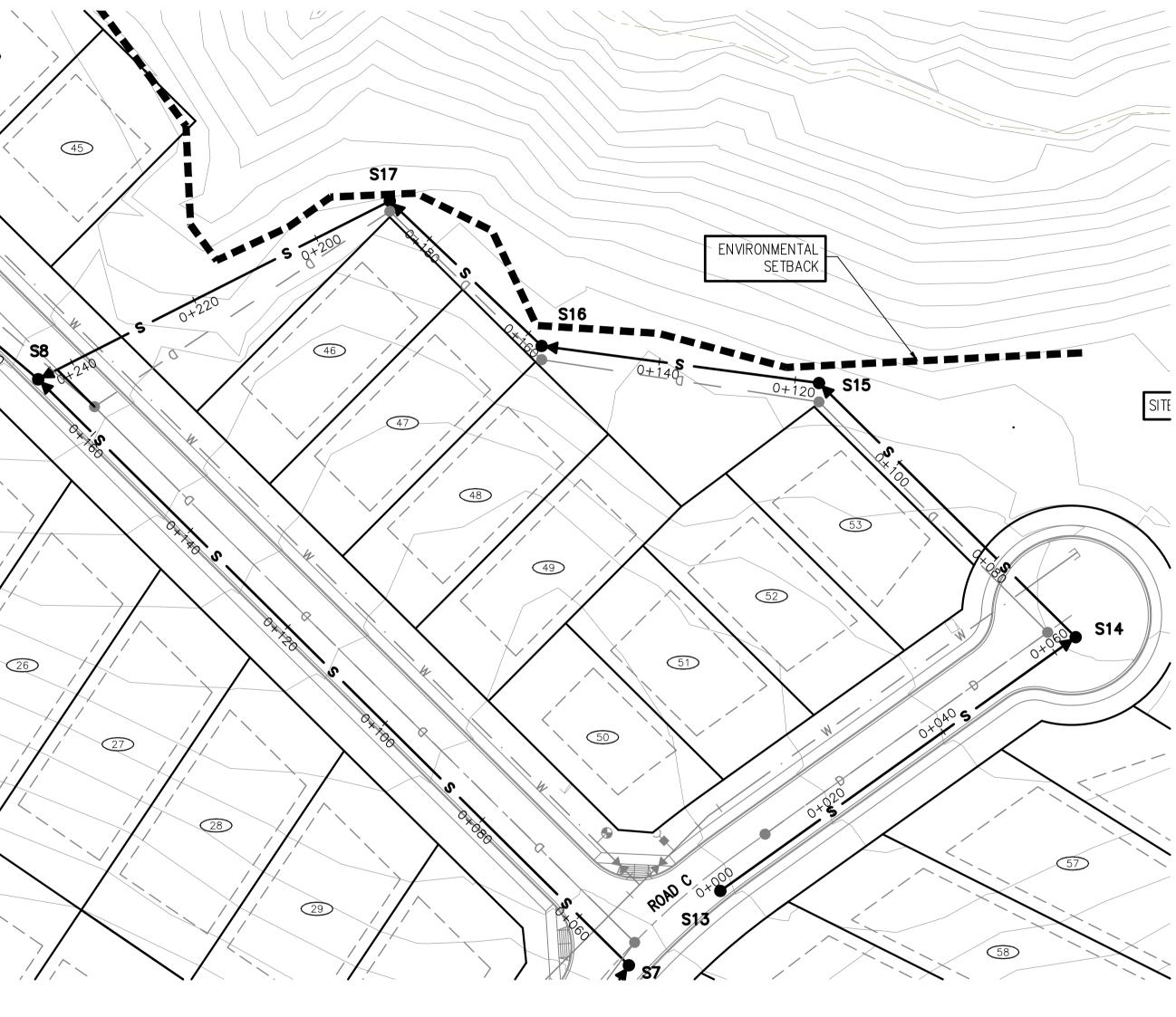


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SEE SHEET 16 FOR SANITARY WORKS NOTES

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SANITARY SEWER PLAN -CUL DE SAC

SEE SHEET 16 FOR SANITARY WORKS NOTES

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GRAPHIC SCALE

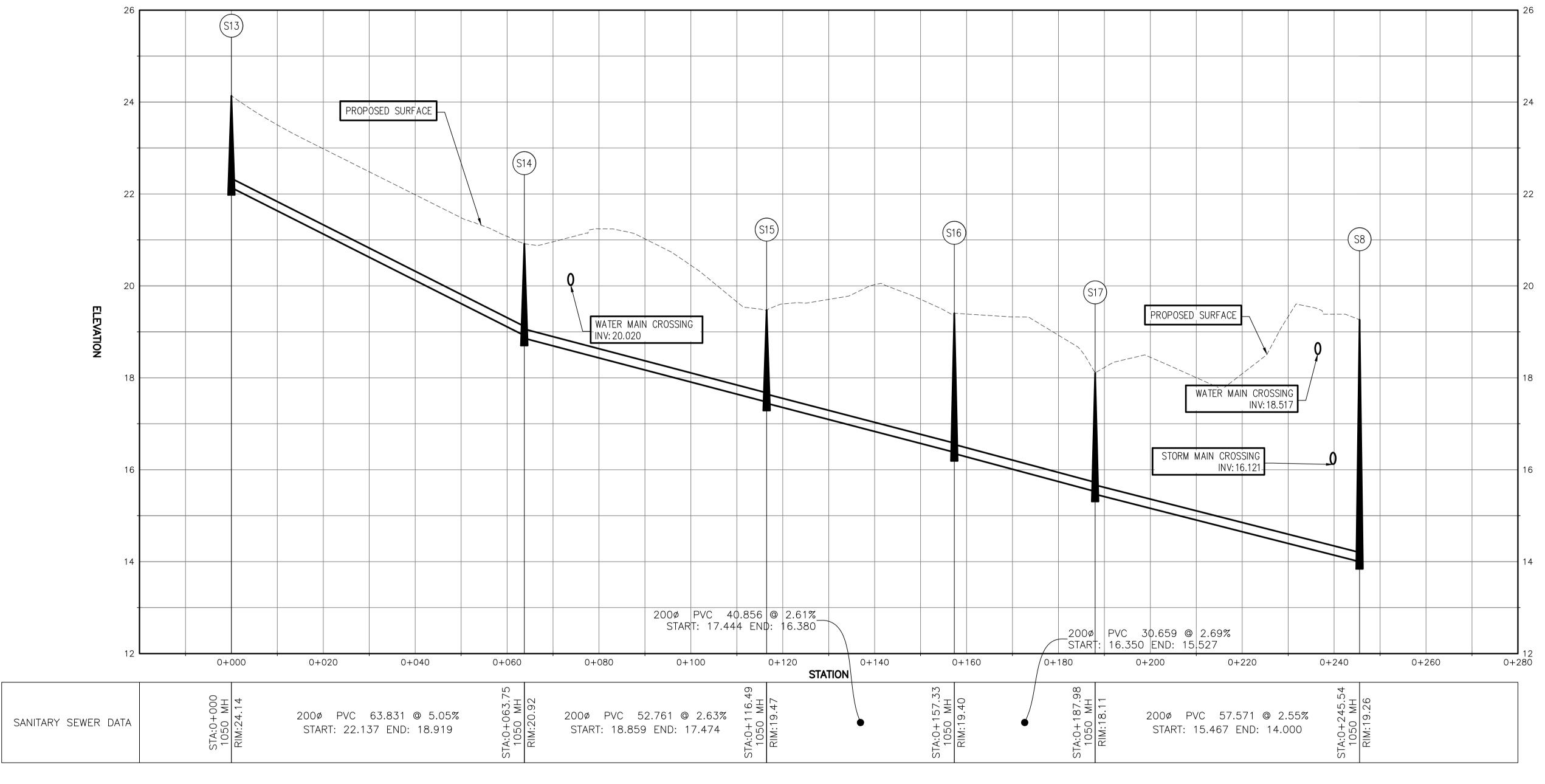
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SANITARY WORKS

DESIGN OF A SUBDIVISION IN MAPLE RIDGE, BC

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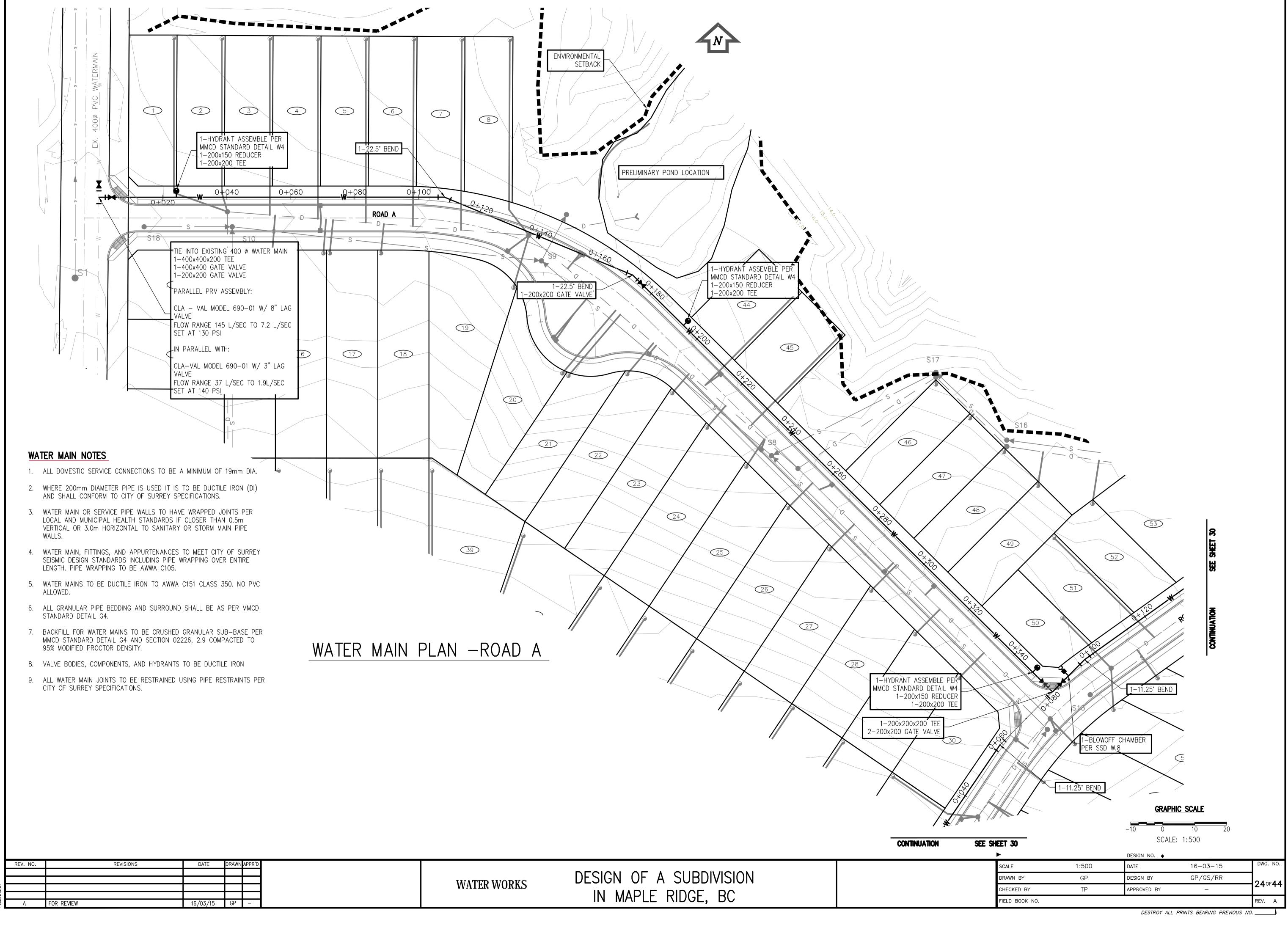
SANITARY SEWER PLAN -CUL DE SAC

NOTES

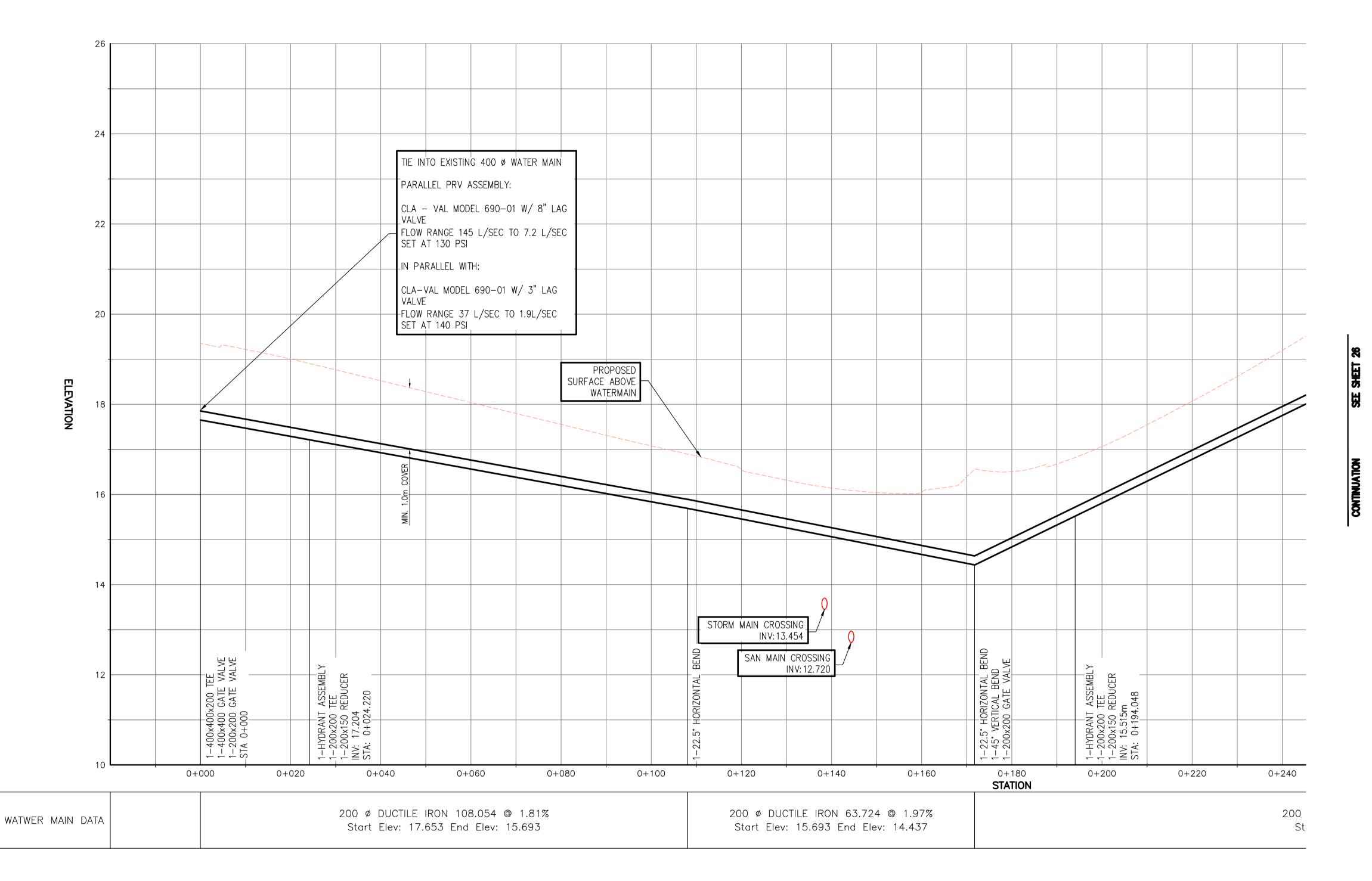
SEE SHEET 16 FOR SANITARY WORKS NOTES

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SEE SHEET 24 FOR WATER MAIN NOTES



WATER MAIN PROFILE - ROAD A STA: 0+000 TO 0+240

WATER WORKS

REVISIONS

16/03/15 GP -

GRAPHIC SCALE

SCALE: 1:500

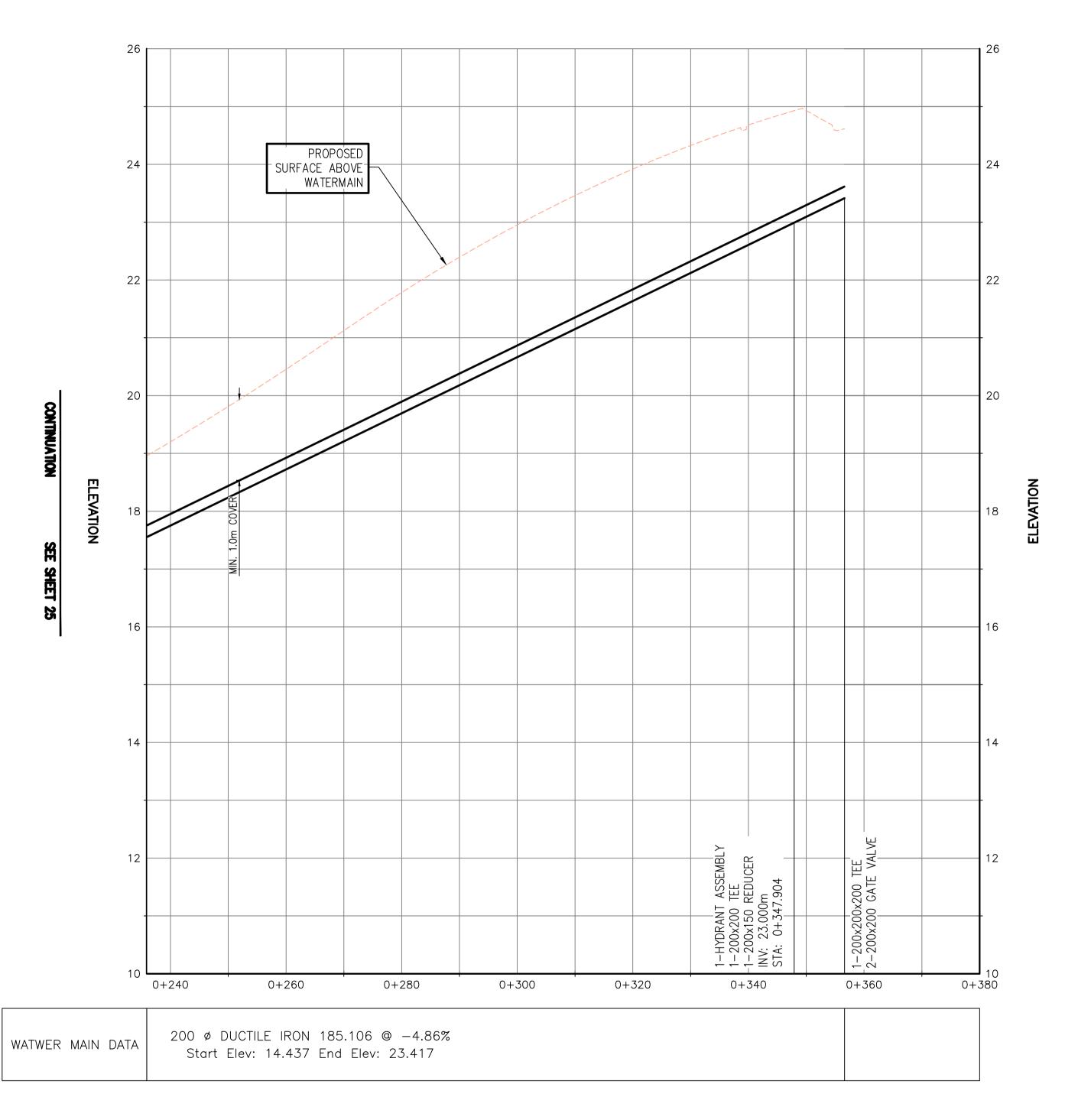
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FIELD BOOK NO.				REV. A

DESIGN NO. •

DESIGN OF A SUBDIVISION

IN MAPLE RIDGE, BC

SEE SHEET 24 FOR WATER MAIN NOTES



WATER MAIN PROFILE - ROAD A STA: 0+240 TO 0+380

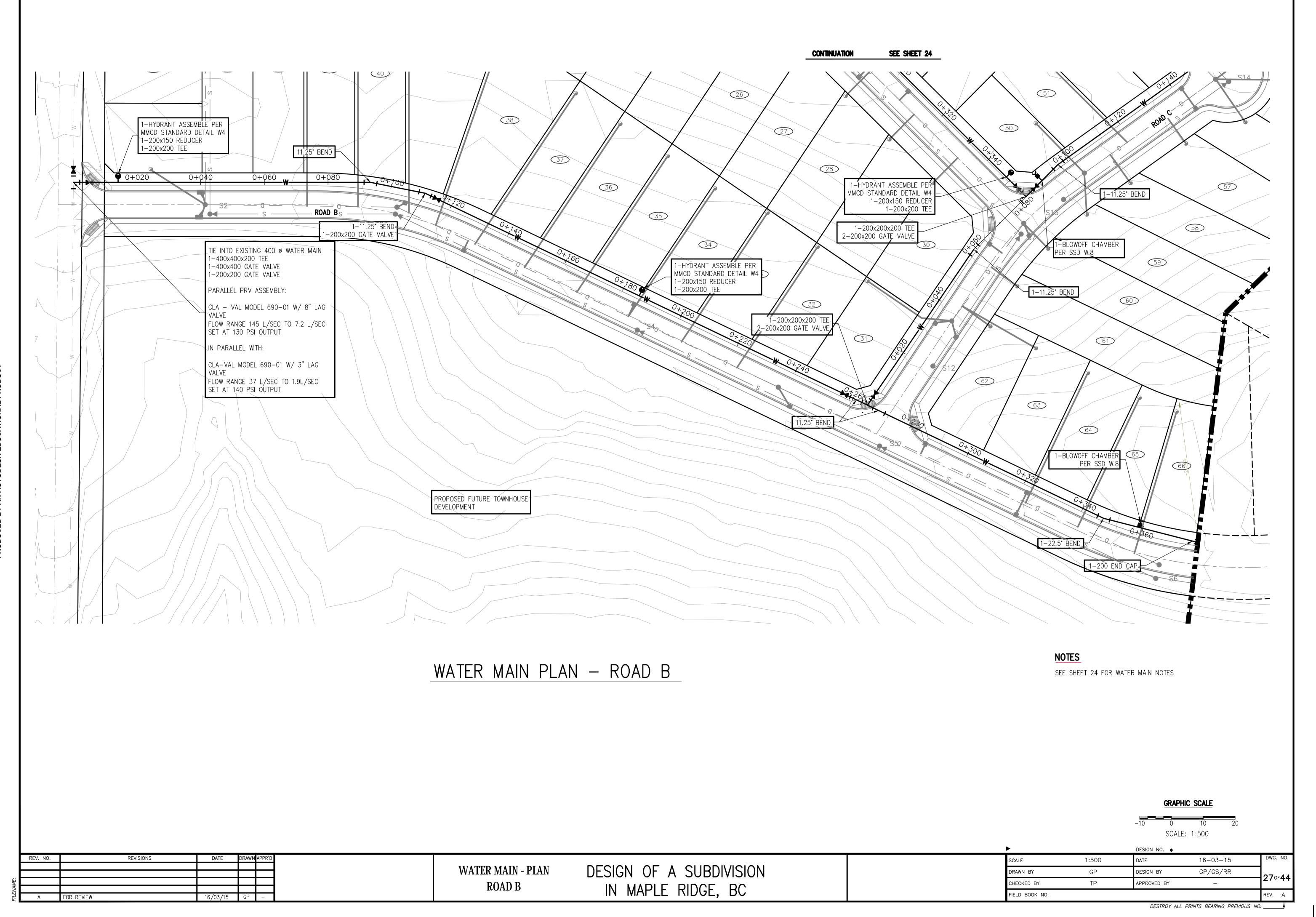
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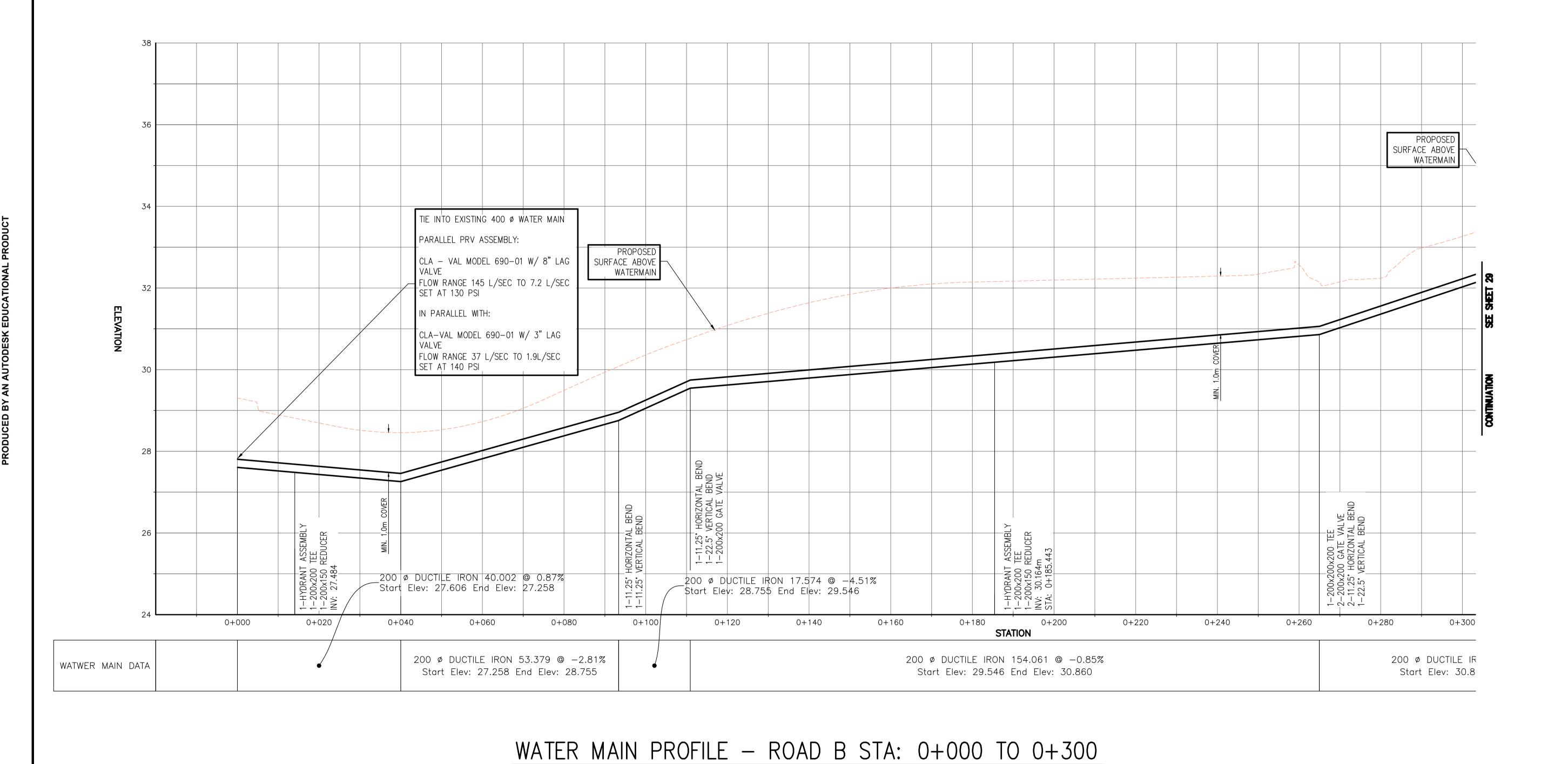
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16/03/15 GP -



SEE SHEET 24 FOR WATER MAIN NOTES



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CHECKED BY TP APPROVED BY
FIELD BOOK NO.

REV. A

DESIGN NO. •

DATE

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16-03-15

GRAPHIC SCALE

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DESIGN OF A SUBDIVISION

IN MAPLE RIDGE, BC

WATER MAIN - PROFILE

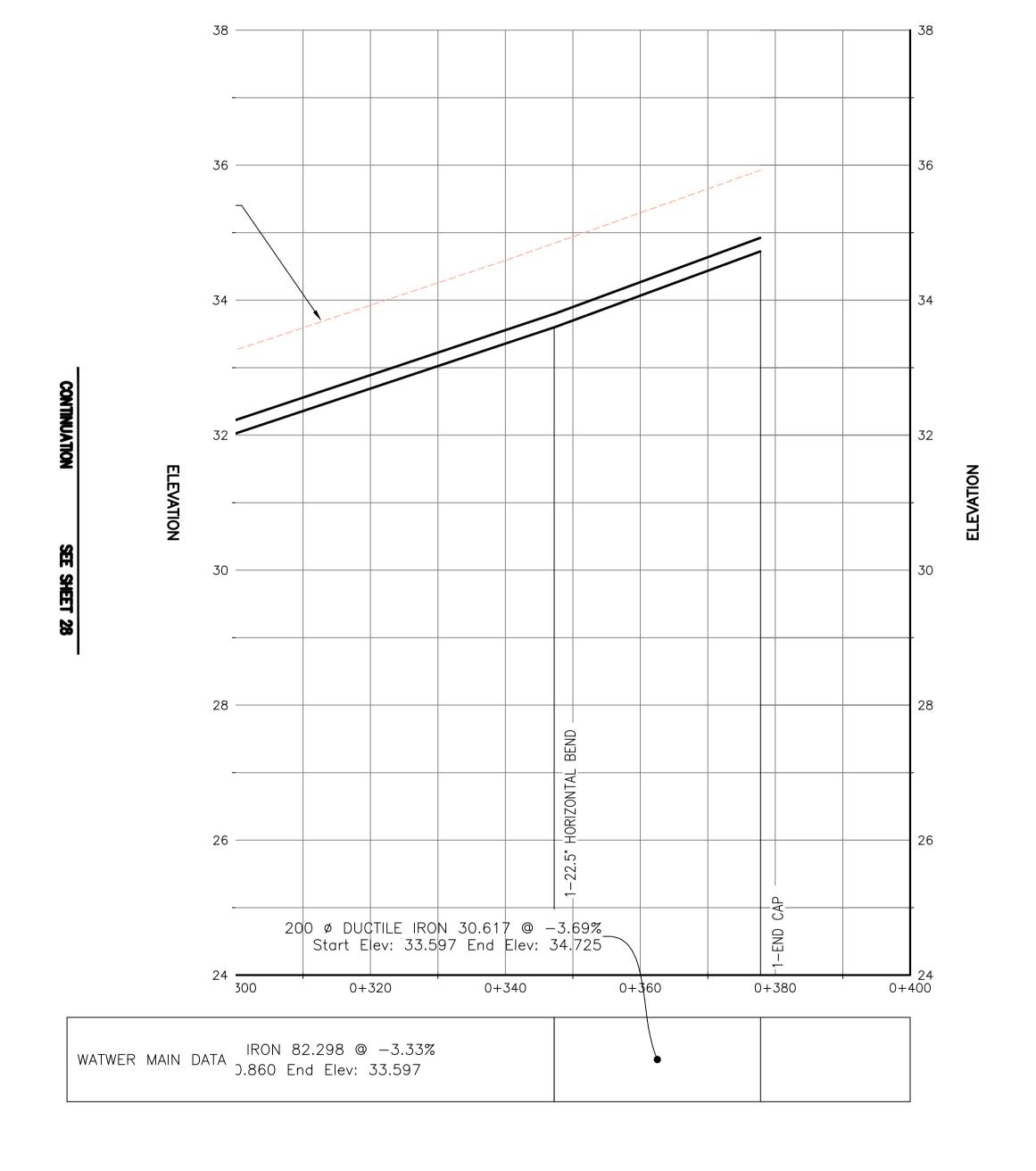
ROAD B

REVISIONS

FOR REVIEW

DATE

16/03/15 GP -



SEE SHEET 24 FOR WATER MAIN NOTES

WATER MAIN PROFILE - ROAD B STA: 0+300 TO 0+380

REVISIONS

16/03/15 GP -

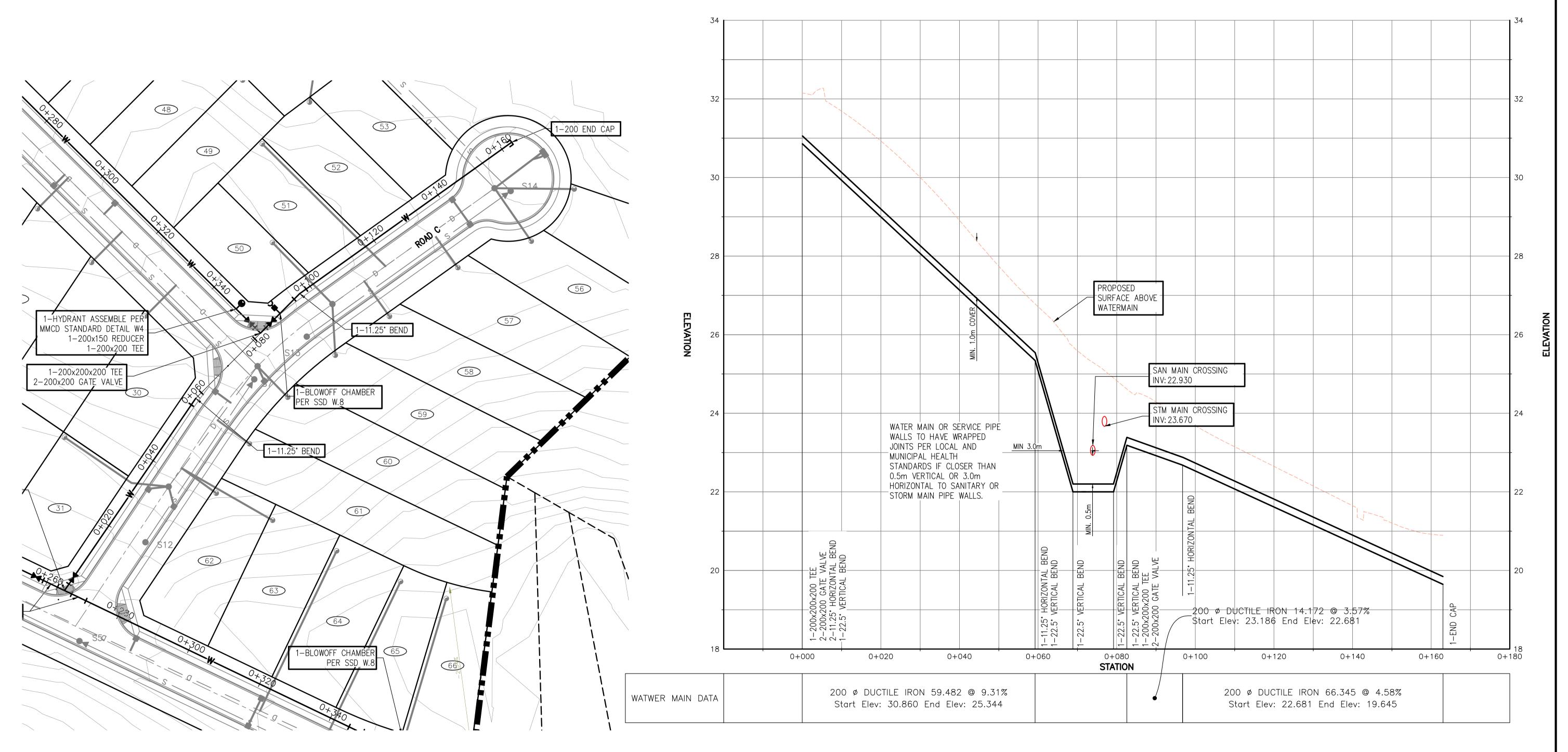
GRAPHIC SCALE



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SEE SHEET 24 FOR WATER MAIN NOTES



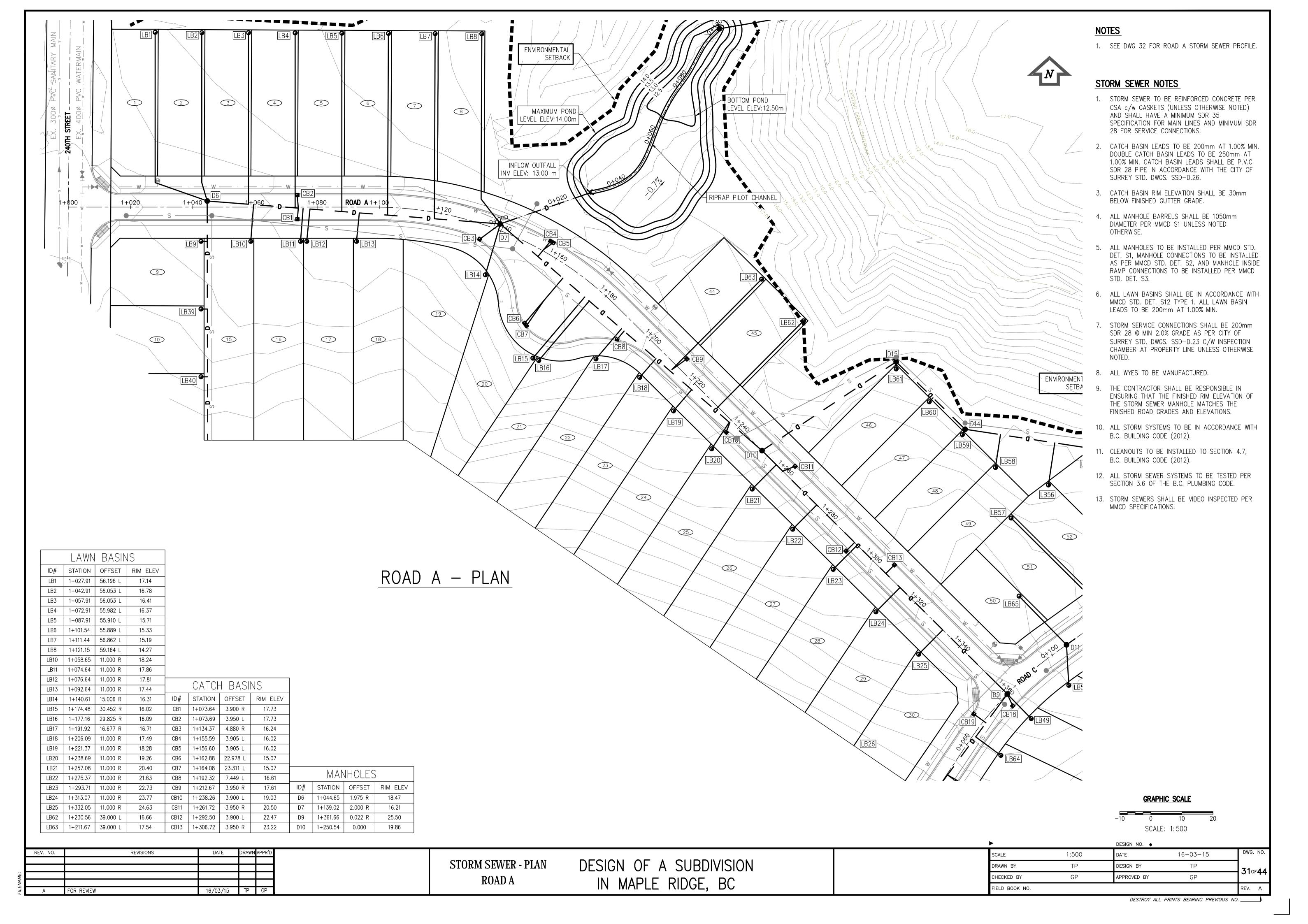
WATER MAIN PROFILE - ROAD C

WATER MAIN PLAN - ROAD C

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GRAPHIC SCALE

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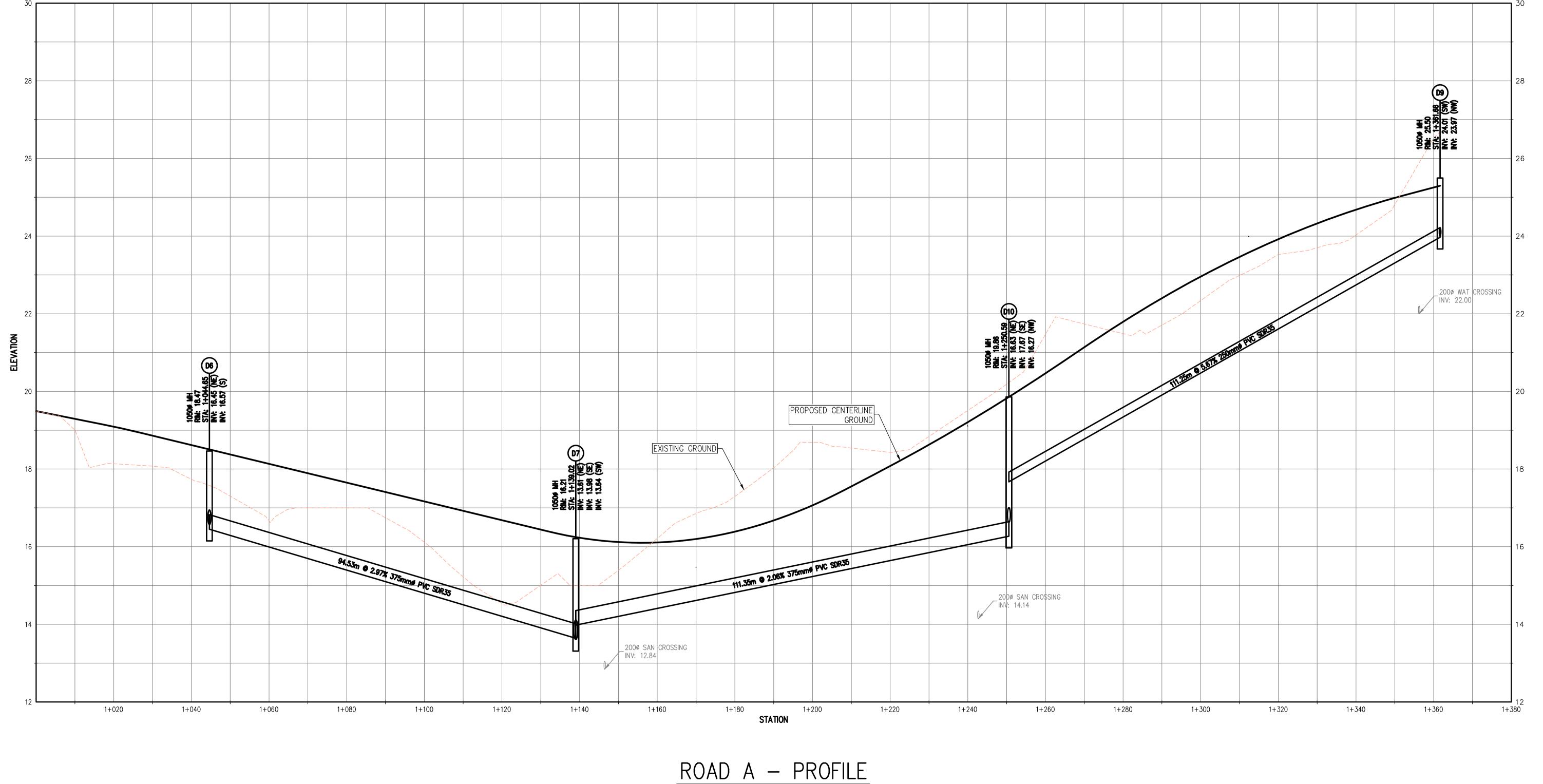
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DESIGN OF A SUBDIVISION

IN MAPLE RIDGE, BC

STORM SEWER - PROFILE

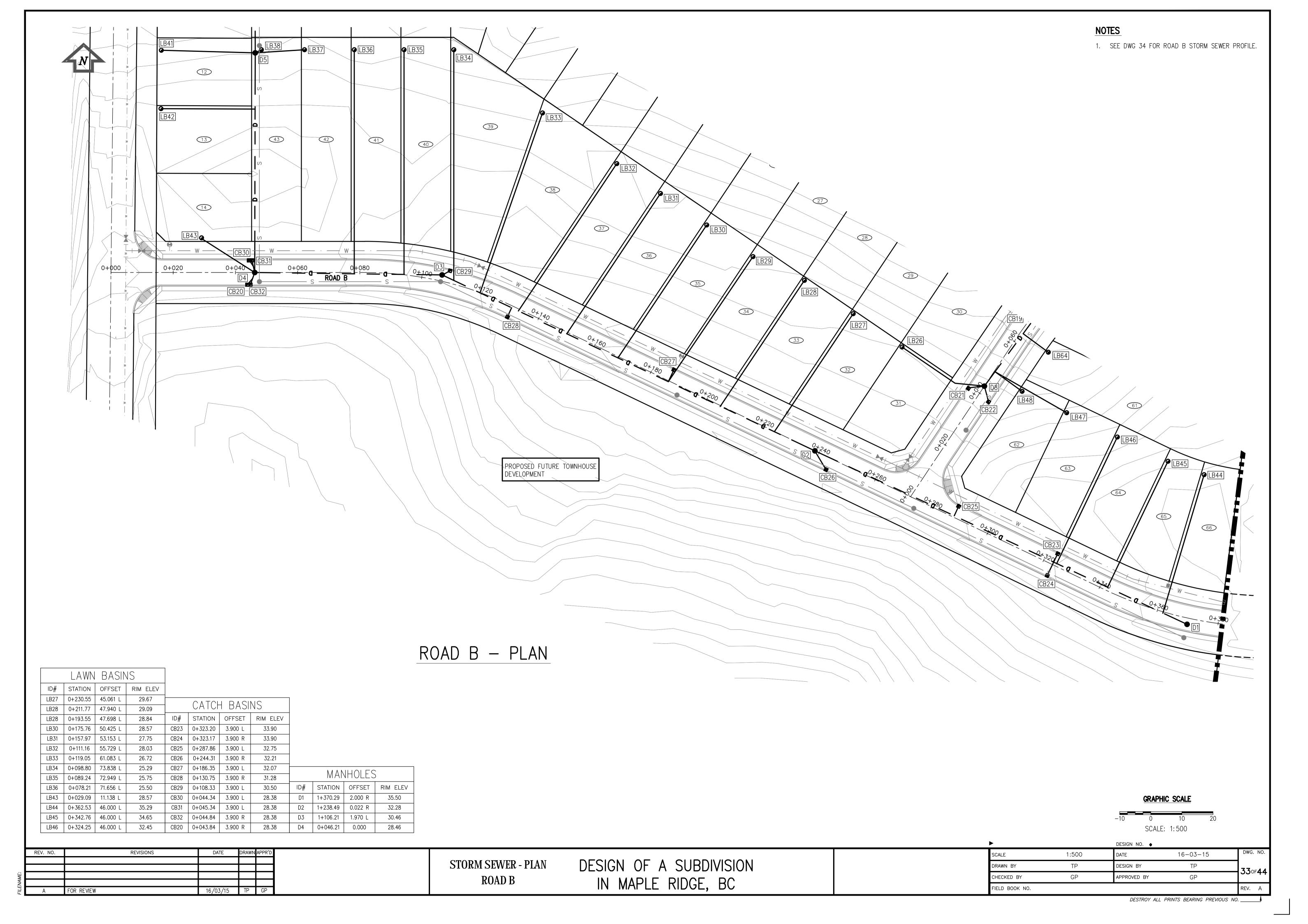
ROAD A

REV. NO.

REVISIONS

DATE

16/03/15 TP GP



1. SEE DWG 33 FOR ROAD B STORM SEWER PLAN.

NOTES

GRAPHIC SCALE

SCALE: 1:500

DATE

DESIGN BY

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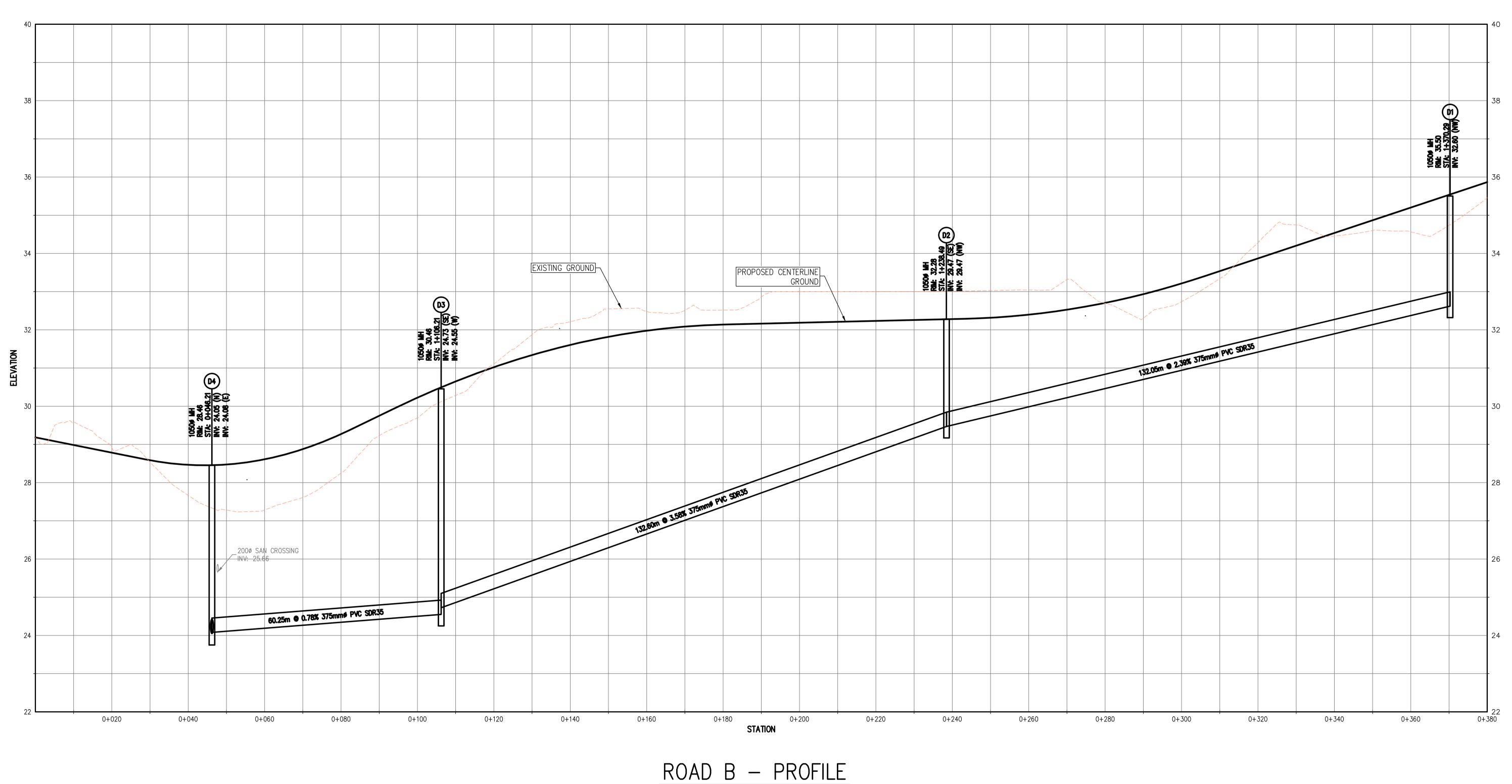
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FIELD BOOK NO.

16-03-15

GP

DESTROY ALL PRINTS BEARING PREVIOUS NO. _



DESIGN OF A SUBDIVISION

IN MAPLE RIDGE, BC

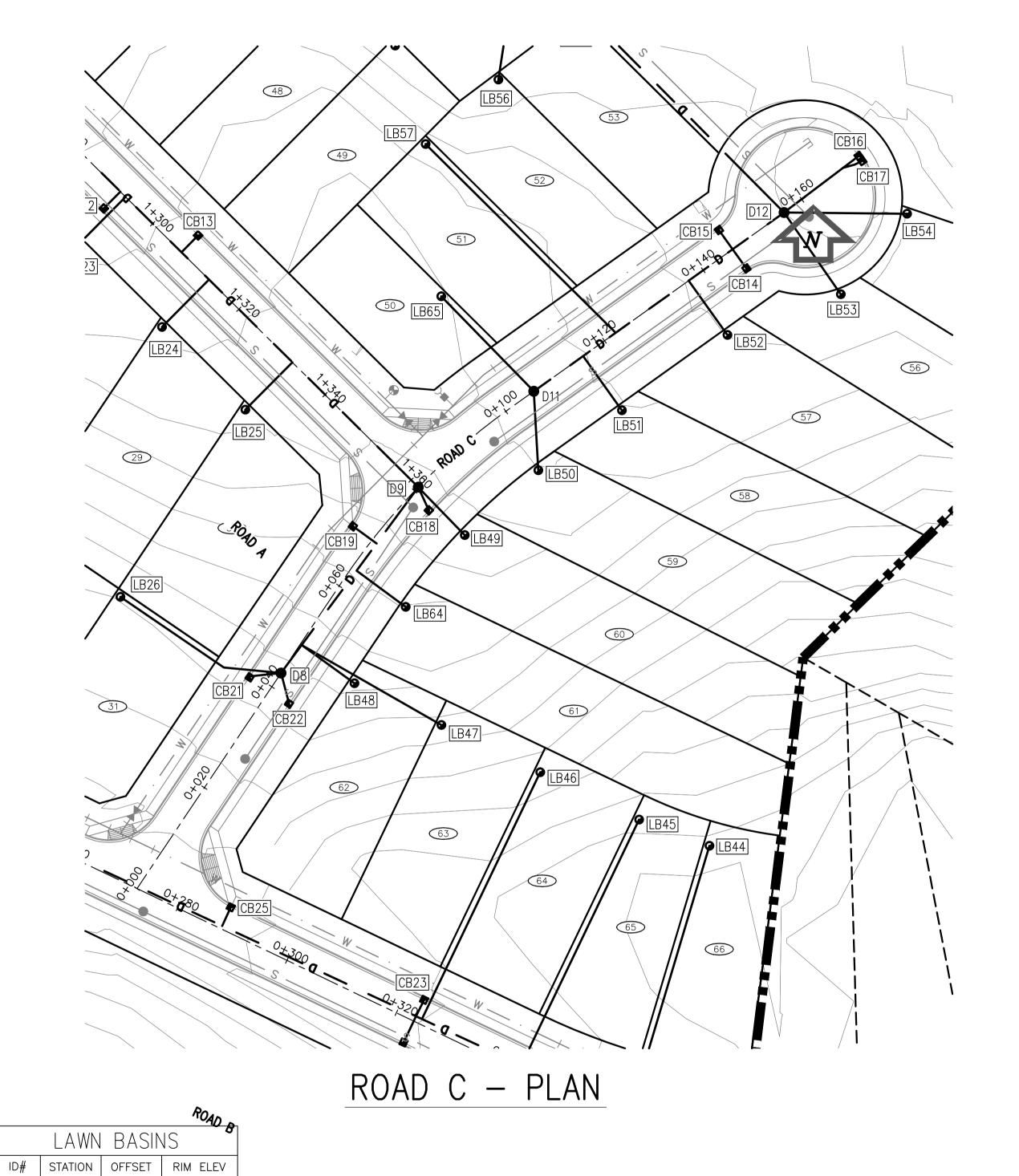
STORM SEWER-PROFILE

ROAD B

DATE DRAWN APPR'D

REVISIONS

REV. NO.



MANHOLES

ID# STATION OFFSET RIM ELEV

25.50

23.55

21.00

D8 0+042.72 0.000

D9 0+089.89 0.022 L

D12 0+156.37 0.000

D11 0+105.67

LB26 0+038.46 29.000 L LB47 0+050.30 26.737 R

LB48 0+048.04 11.000 R

LB49 0+080.49 11.000 R LB50 0+098.48 11.000 R

LB52 0+137.03 11.000 R

LB53 | 0+156.14 | 16.393 R

LB54 | 0+172.74 | 11.945 R

LB57 | 0+114.84 | 43.526 R

LB64 0+063.44 11.000 R

LB65 0+102.35 21.600 L

11.000 R

LB51 0+115.66

30.32

CATCH BASINS

ID# STATION OFFSET RIM ELEV

3.900 L

29.58

CB14 0+145.95 3.900 R CB15 0+145.95 3.900 L

CB16 | 0+171.79 | 0.430 L

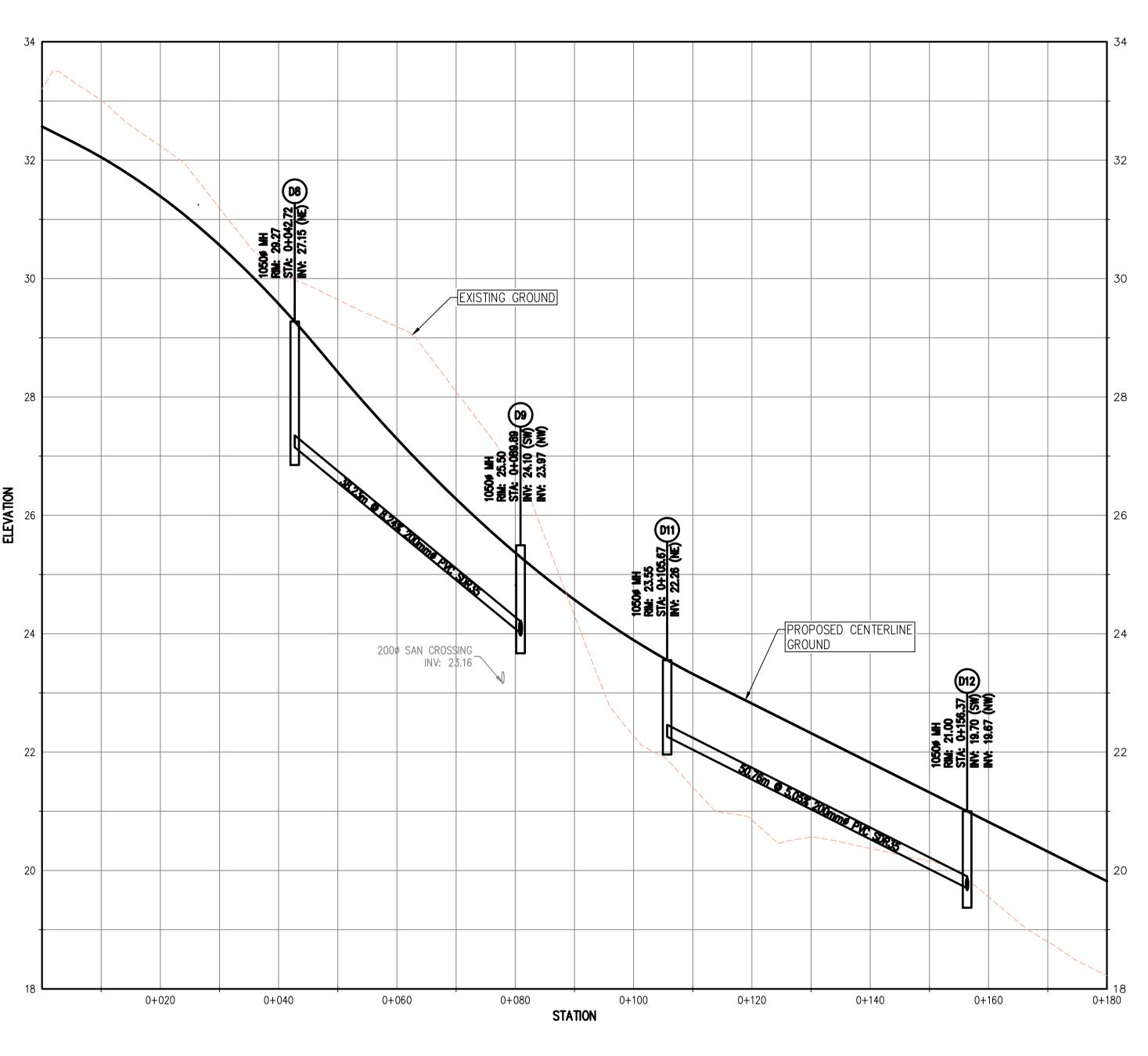
CB17 0+171.79 0.570 R

CB18 0+079.24 3.900 R

CB19 | 0+069.15 | 3.900 L

CB22 0+039.22 3.900 R

CB21 0+039.27



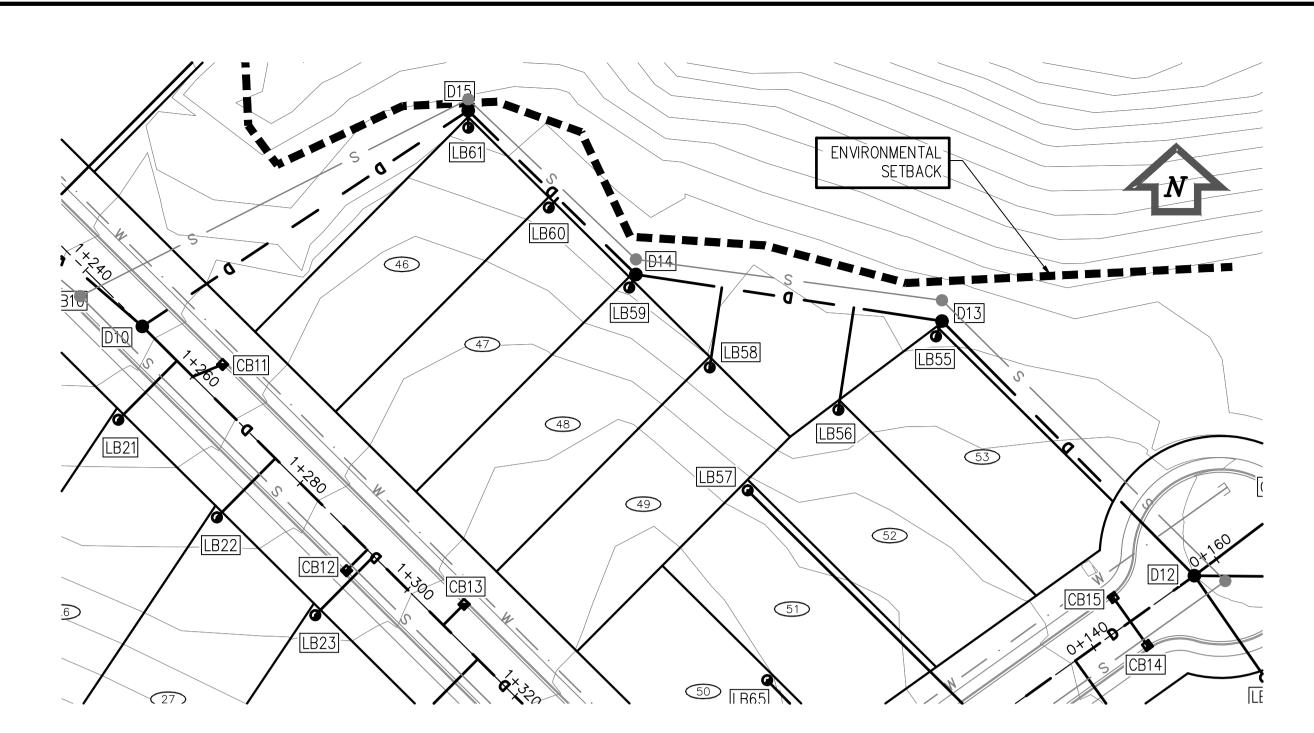
ROAD C - PROFILE

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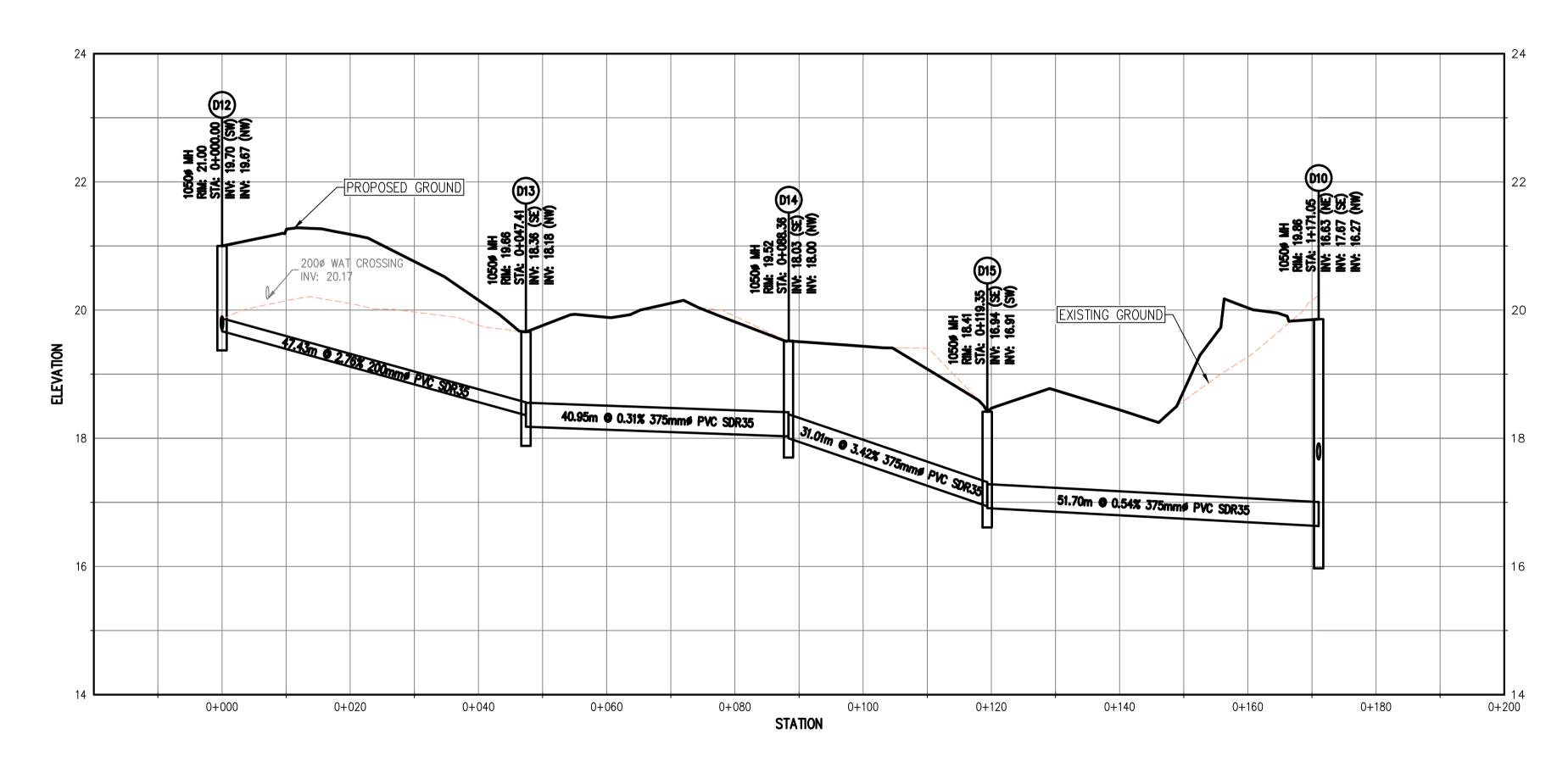
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			+	+	STORM SEWER - PLAN / DESIGN OF A SUBDIVISION	DRAWN BY	TP	DESIGN BY	TP	75 4.4
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A LEN	FOR REVIEW	16/03/15	TP	GP	PROFILE ROAD C IN MAPLE RIDGE, BC	FIELD BOOK NO.		-		REV. A





EASEMENT BETWEEN ROAD C AND ROAD A - PLAN



EASEMENT BETWEEN ROAD C AND ROAD A - PROFILE

	LAWN	BASIN	1S				
ID#	STATION	OFFSET	RIM ELEV)		
LB55	0+046.53	1.993 L	19.87	ID#	STATION	OFFSET	RIM ELEV
LB56	0+059.20	13.679 L	20.57	D12	0+000.00	0.000	21.00
LB58	0+076.85	10.692 L	20.24	D13	0+047.41	0.000	19.66
LB59	0+088.33	1.949 L	19.83	D14	0+088.36	0.000	19.52
LB60	0+102.78	1.746 L	19.63	D15	0+119.35	0.000	18.41
LB61	0+117.78	1.630 L	18.74	D10	1+171.05	0.000	19.86

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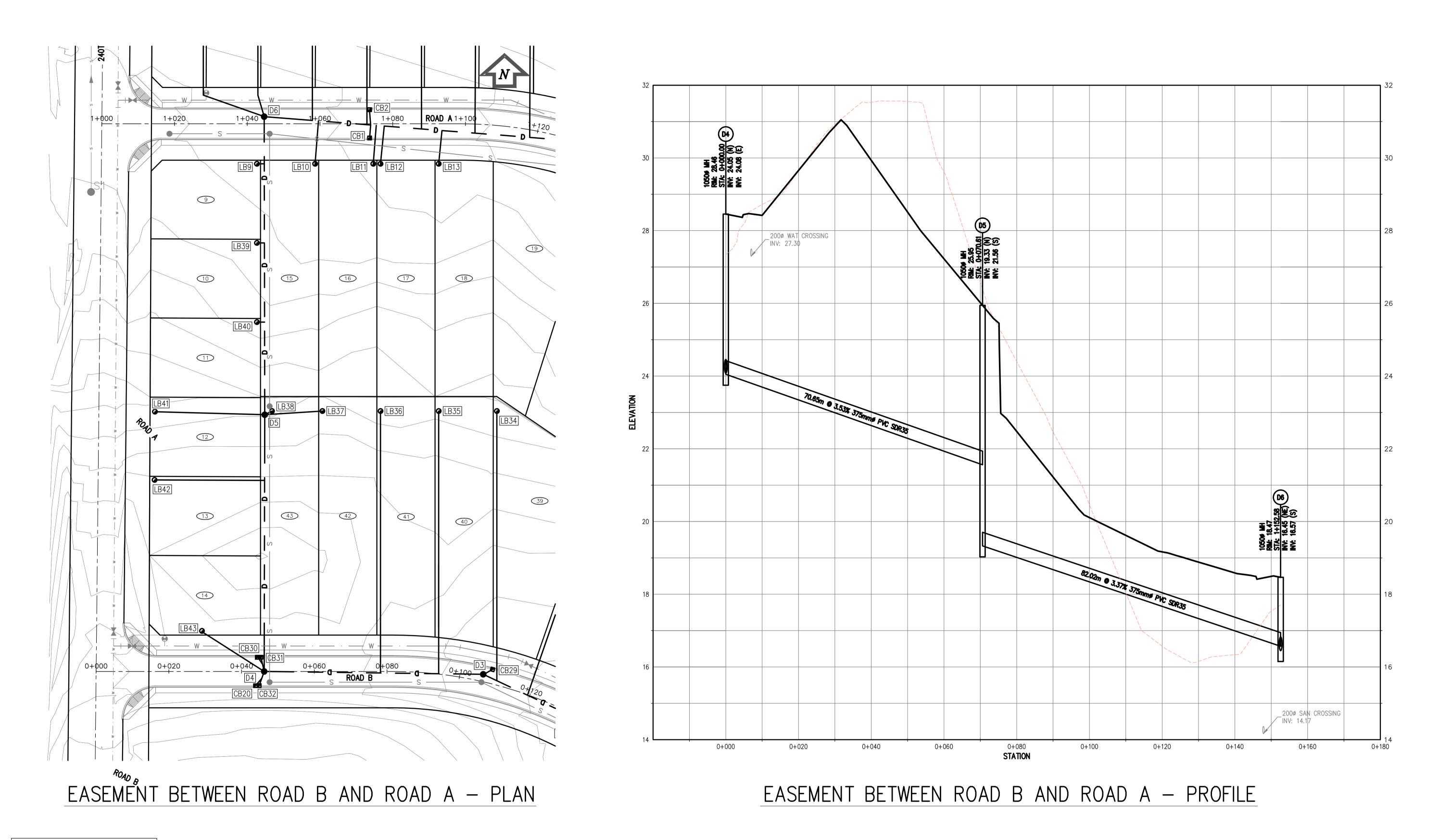
PROFILE EASEMENT 1

N MAPLE RIDGE, BC

REV. A

REV. A





LAWN BASINS LB9 0+139.61 2.025 L 18.65 LB37 0+071.58 15.841 R 26.45 MANHOLES LB38 0+071.60 1.986 R 25.85 ID# STATION OFFSET RIM ELEV LB39 | 0+117.85 | 2.068 L D4 0+000.00 LB40 0+096.08 LB41 0+071.85 30.205 L D5 0+070.61 25.95 LB42 0+052.59 30.269 L D6 | 1+152.58 | 0.000 18.47

REVISIONS

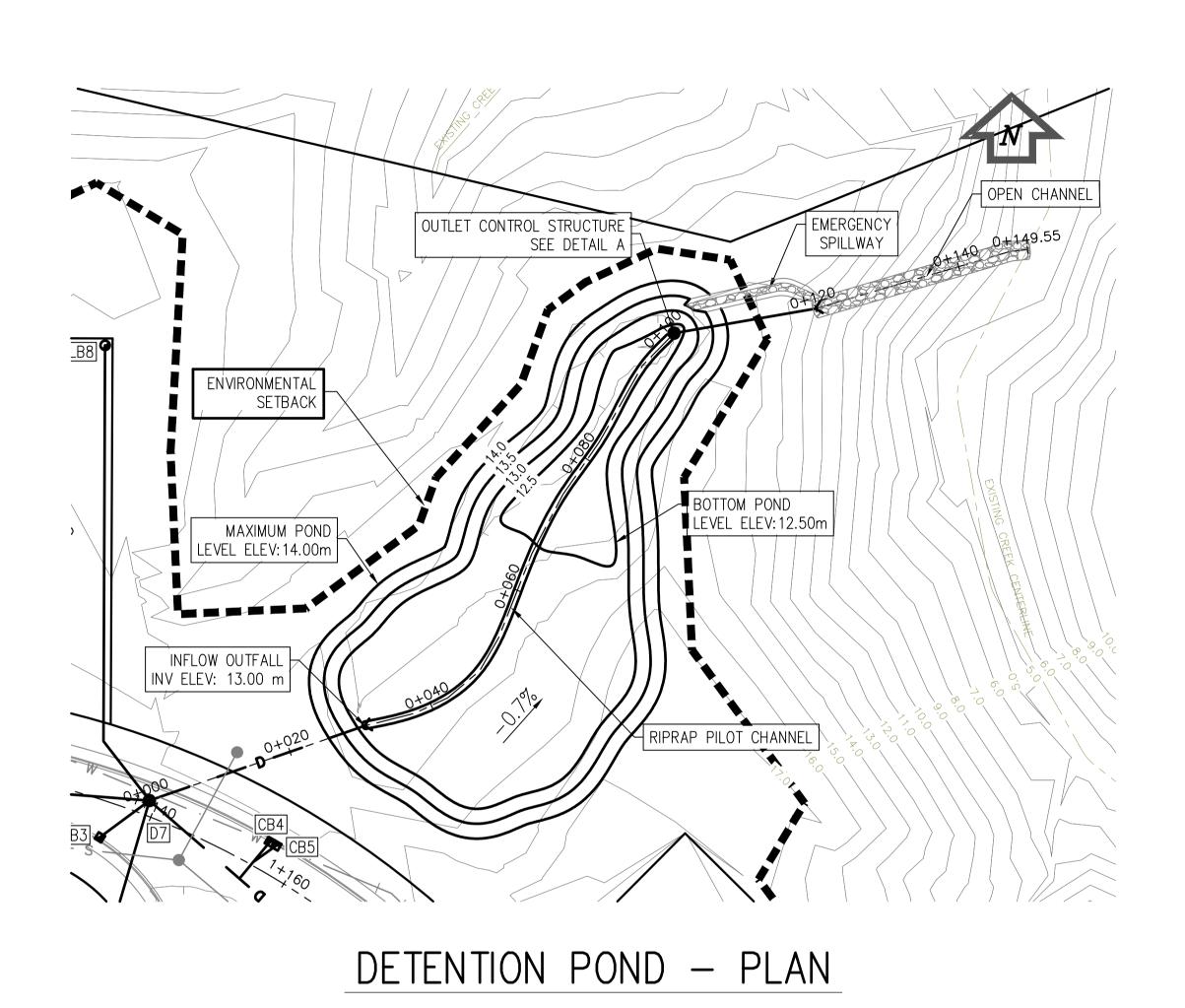
STORM SEWER - PLAN / PROFILE EASEMENT 2

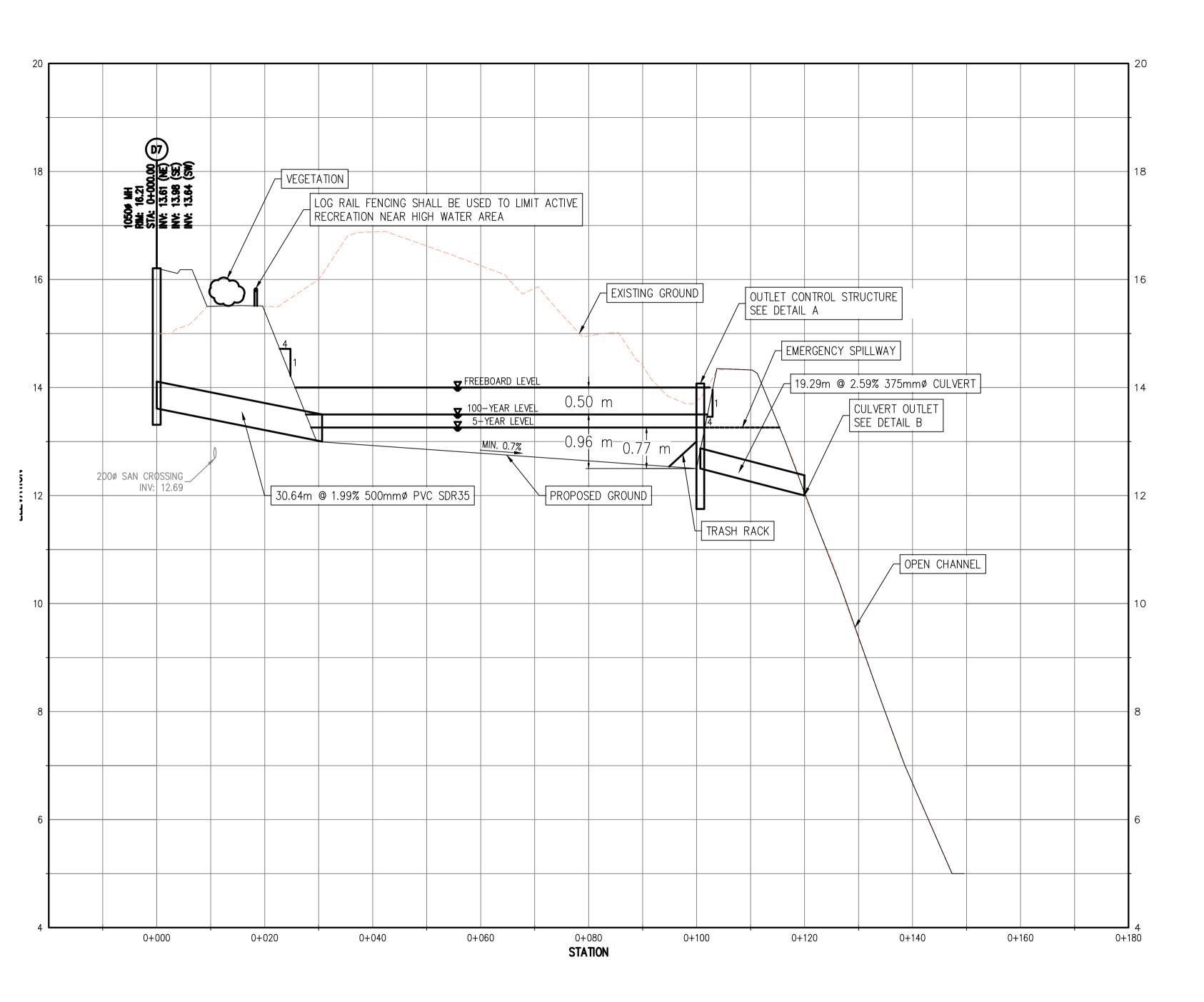
DESIGN OF A SUBDIVISION IN MAPLE RIDGE, BC

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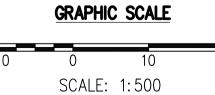
GRAPHIC SCALE

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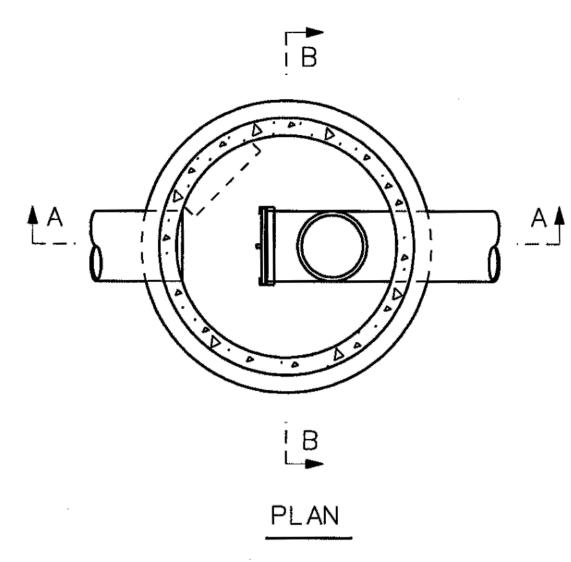


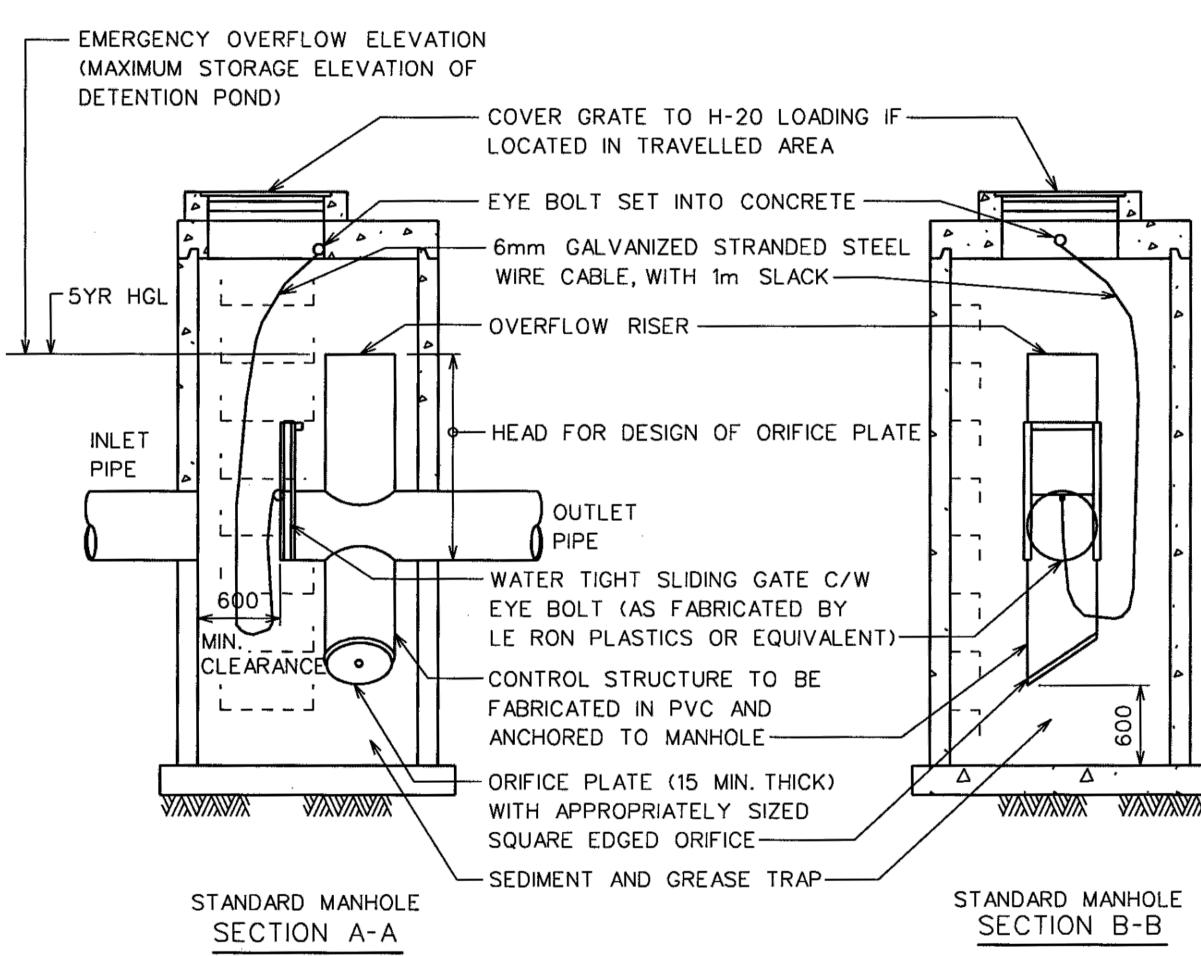
DETENTION POND - PROFILE



SIGN OF A SUBDIVISION IN MAPLE RIDGE, BC	DETENTION POND - PLAN / PROFILE	APPR'D	DRAWN APPR	ATE [DATE	REVISIONS	REV. NO.
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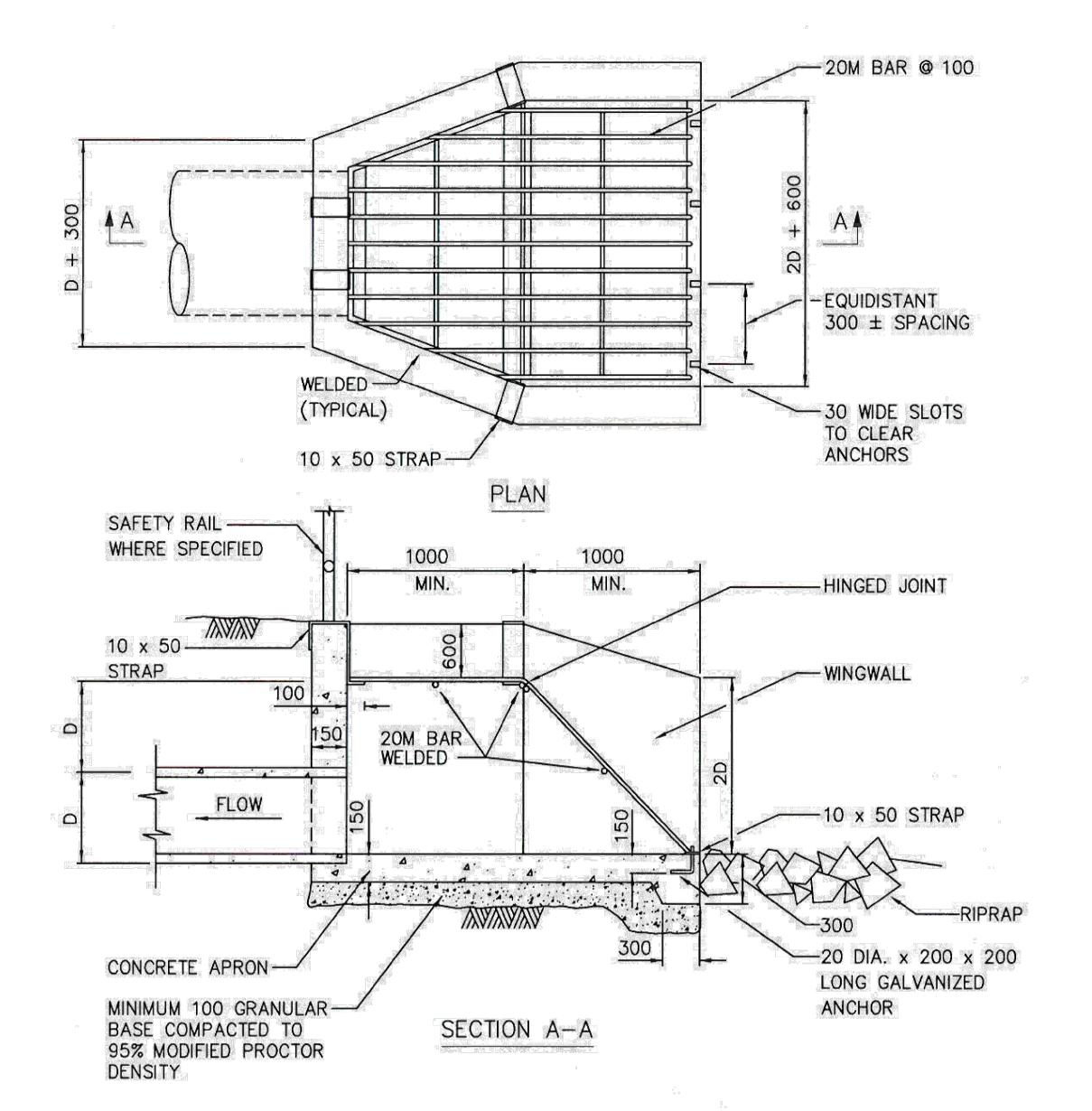




DETAIL

CONTROL STRUCTURE

N.T.S.



- NOTE: 1. INSTALL SAFETY HANDRAIL IF SPECIFIED ON CONTRACT DRAWINGS.
 - 2. PRECAST UNIT MAY BE PROVIDED AS ALTERNATIVE WITH CONTRACT ADMINISTRATOR'S PRIOR APPROVAL.
 - 3. ALL STEEL COMPONENTS TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.
 - 4. SAFETY GRILLAGE TO BE WELDED AT ALL JOINTS AND CONNECTIONS EXCEPT AT ANCHOR BOLTS.
 - 5. REFER TO CONTRACT DRAWINGS FOR LOCATIONS AND SITE SPECIFIC DIMENSIONS. REFER TO SECTIONS 03 20 01 AND 03 30 53 FOR DETAILED SPECIFICATIONS.







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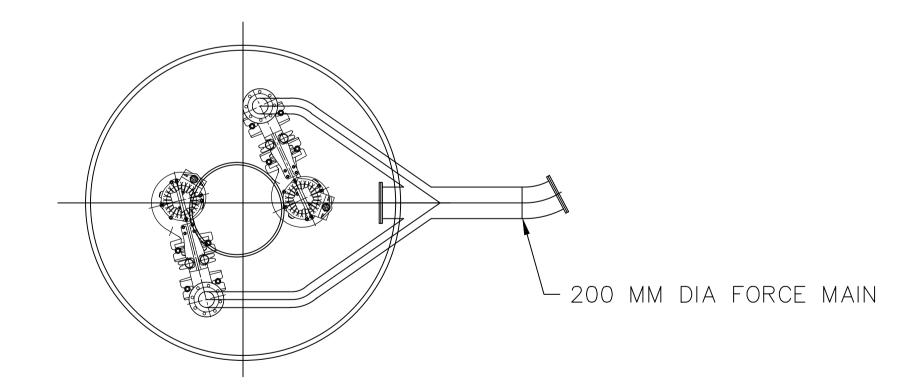
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PUMP CHAMBER DETAILS

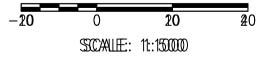
NOTES:

- 1. ALL CONSTRUCTION MATERIALS TO BE IN ACCORDANCE WITH CITY OF SURREY SUP PLEMENTARY SPECIFICATIONS AND DETAIL DRAWINGS AND WITH THE CURRENT CITY APPROVED EDITION OF THE MMCD STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED
- 2. PUMP STATION PAD TO BE GRADED TO ENSURE DRAINAGE AWAY FROM WETWELL, KIOSK AND OTHER PHYSICAL STRUCTURES.
- 3. STRUCTURAL DESIGN OF FIBERGLASS WET WELL, FIBREGLASS PIPING, PIPE SUPPORTS, AND LADDER TO BE SEALED BY A PROFESSIONAL ENGINEER.
- 4. PIPEWORK AND FITTINGS TO BE SUITABLE FOR WORKING PRESSURE OF 345 kPa.
- 5. ALL METALWORK TO BE GALVANIZED OR STAINLESS STEEL WHERE SHOWN.
- 6. DISCHARGE BEND MOUNTING BOLTS TO SUIT PUMPS.
- 7. PUMP STATION FLOOR TO BE SUFFICIENTLY STIFF TO PREVENT BUCKLING UNDER HYDRO—STATIC UPLIFT FORCE.



SECTION A-A - PUMPS LAYOUT

GRAPHIC SCALE



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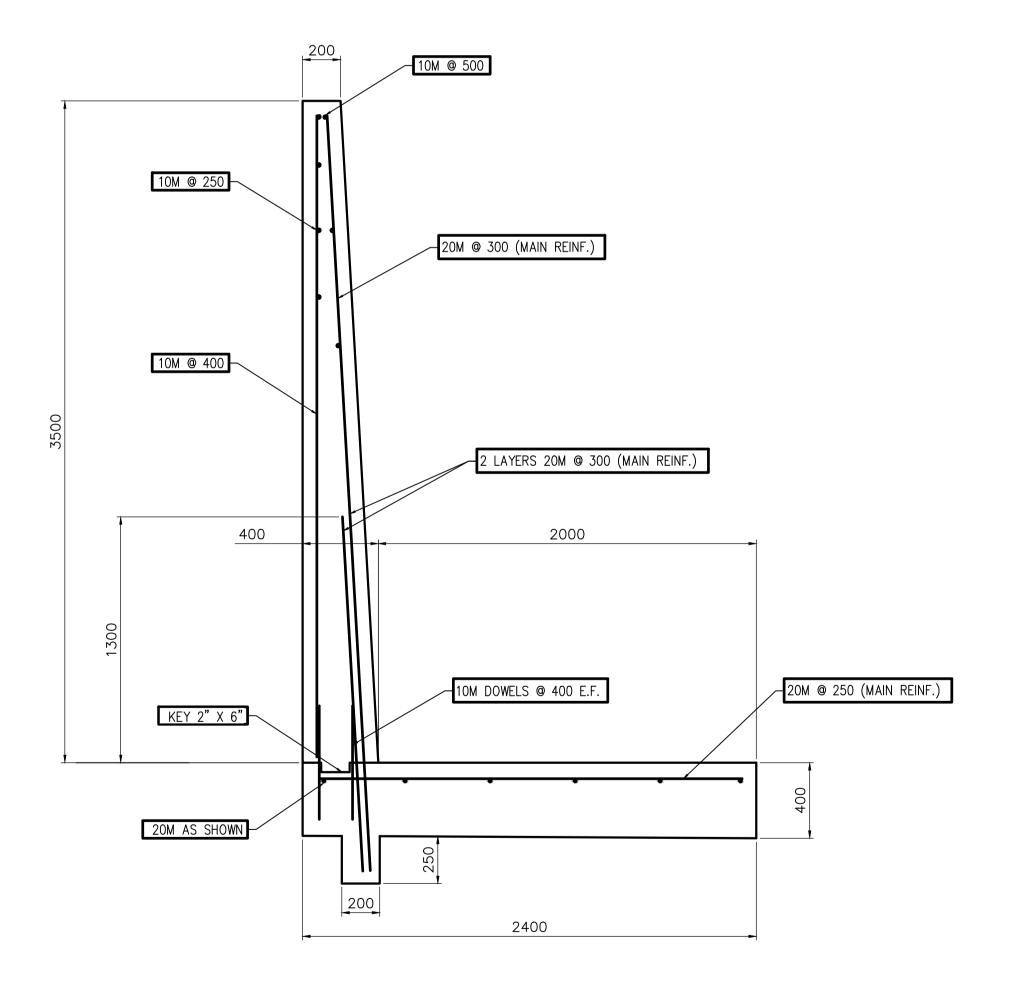
1.UNDER THE PROPOSED RETAINING WALL, REMOVE ALL SOFT/LOOSE/ORGANIC SOIL

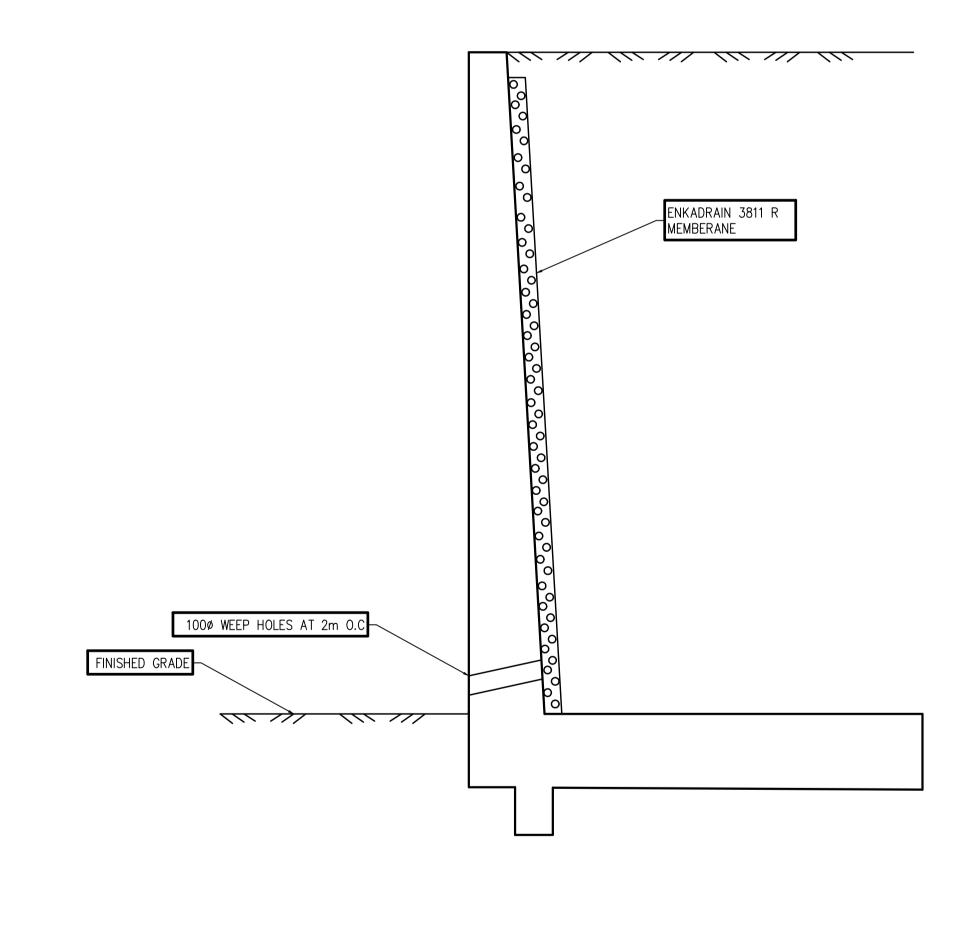
2.RETAINING WALL MUST HAVE GUARDRAIL OR FENCE AT TOP

3.MINIMUM 100mm THICK LEVELING PAD OF 19mm Ø MINUS CRUSHED GRAVEL.

4.75mm Ø MINUS GRAVEL AND SAND BACKFILL UP TO MEMBRANE BACK. COMPACTED WITH AT LEAST 500 LB PLATE COMPACTOR. USE SMALLER LIGHTWEIGHT EQUIPMENT, SUCH AS HAND-OPERATED COMPACTORS WITHIN 0.3 m OF WALL.

5.STRUCTURAL BACKFILL SHOULD BE PLACED IN 12" THK. LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.





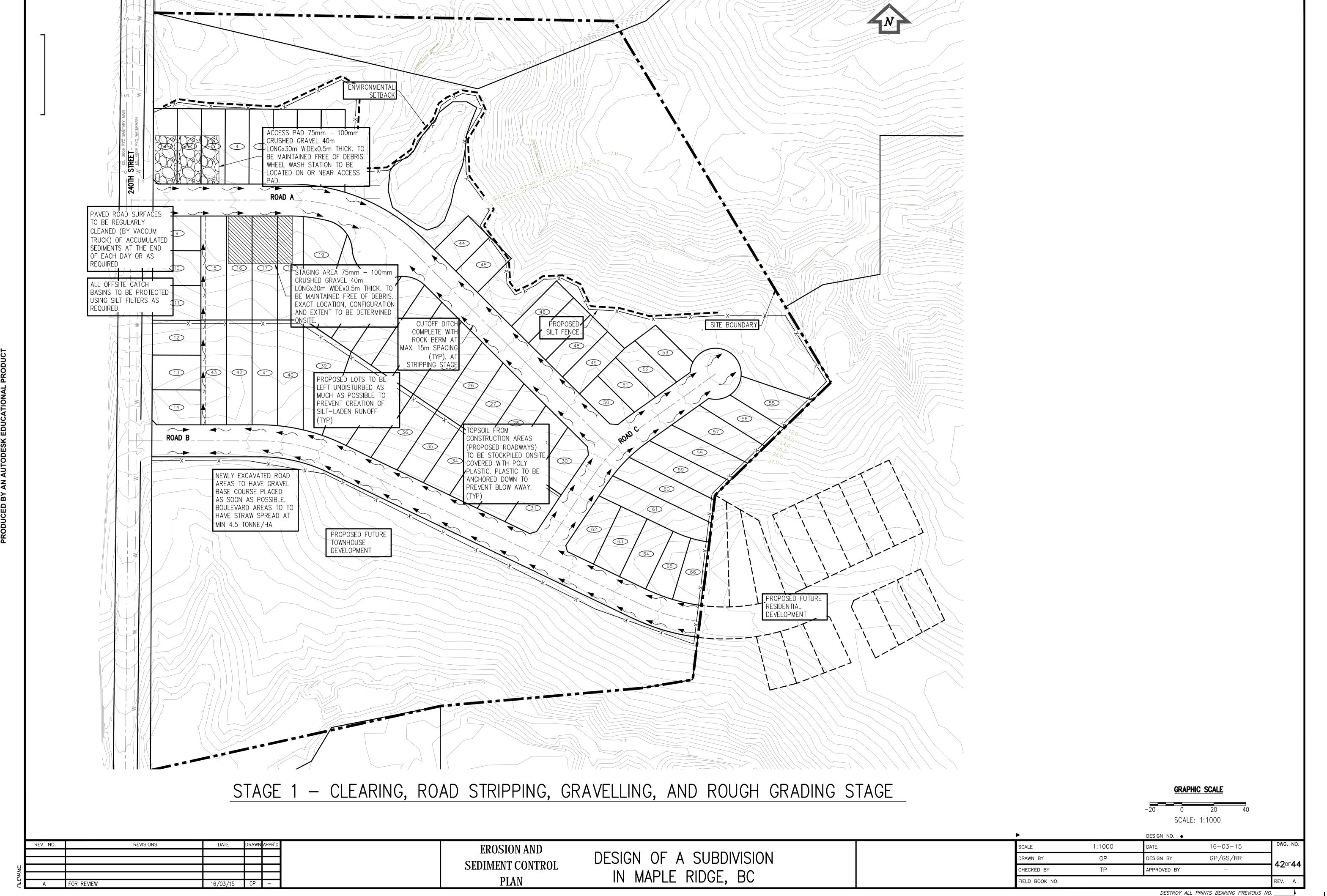
TYPICAL RETAINING WALL SECTION

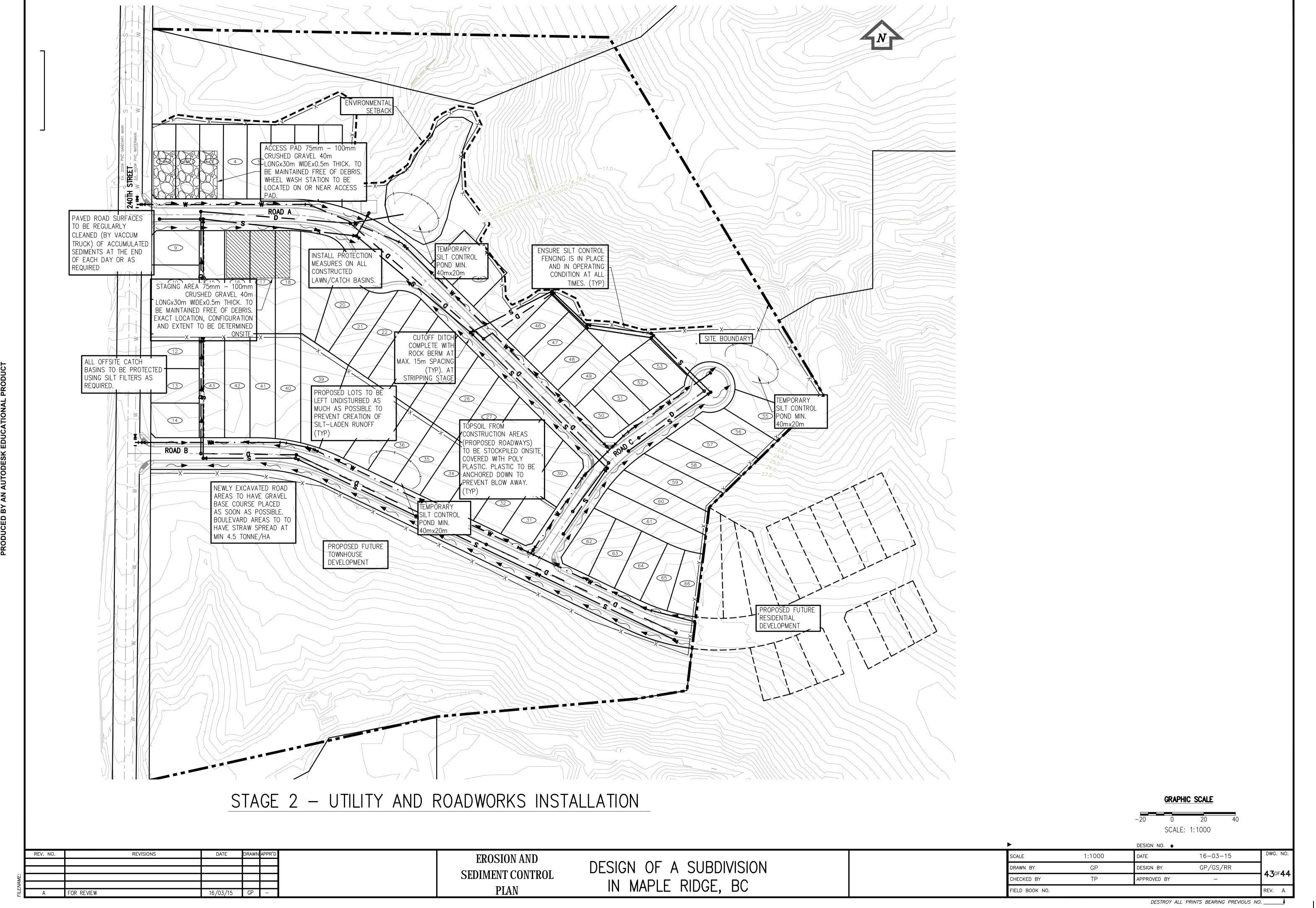
WALL DRAINAGE

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- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT AND MAINTAIN THE SILTATION AND EROSION CONTROL WORKS DURING CONSTRUCTION.
- 2. ALL SILT CONTROL WORKS TO BE CONSTRUCTED PRIOR TO COMMENCEMENT OF EARTHWORKS, FOUNDATION EXCAVATION, AND UNCAPPING OF THE STORM SERVICE SERVICE CONNECTION CAP AND DISCHARGING INTO THE STORM SEWER SYSTEM. ADDITIONAL FACILITIES MAY BE REQUIRED, AS NECESSARY, TO CONTROL THE DISCHARGE OF SILT LADEN WATERS.
- 3. THE ONLY ACCESS TO THE SITE IS TO BE VIA THE SITE ACCESS PAD. ACCESS PAD TO BE INSTALLED PRIOR TO EARTHWORKS ACTIVITIES. ANY SILTATIOUS OR OTHER DELETERIOUS MATERIALS DEPOSITED ON THE ROADS MUST BE CLEANED UP IMMEDIATELY.
- 4. NO SILT LADEN WATER FROM EXCAVATIONS SHALL BE PUMPED OUT OR OTHERWISE DIRECTLY DISCHARGED TO A DITCH SYSTEM THUS BYPASSING THE SEDIMENT CONTROL FACILITIES.
- 5. ROAD MAINTENANCE CONTRACTOR MUST MAKE EVERY EFFORT TO MINIMIZE THE AMOUNT OF SOIL TRANSPORTED FROM THE SITE ONTO THE ROADWAY. THIS IS PARTICULARLY IMPORTANT WHEN ACCESSING THE SITE. THE PAVED ROAD SURFACE MUST BE REGULARLY CLEANED OF ACCUMULATIONS OF SOIL BY THE CONTRACTOR. NO SOIL, SAND, OR OTHER MATERIAL WITH A HIGH SEDIMENT CONTENT SHALL BE DEPOSITED OR PILED OUTSIDE OF THE PROPERTY BOUNDARIES, PARTICULARLY ON THE PAVED ROAD SURFACE. NO MATERIAL OF ANY TYPE IS TO BE DEPOSITED IN SUCH A WAY THAT IT INTERFERES WITH THE FLOW OF WATER ALONG THE CURBS OR INTO CATCH BASINS.
- 6. DISTURBED SOILS WHICH WILL BE LEFT "AS-IS" FOR MORE THAN 30 DAYS WILL BE MULCHED, SEEDED, OR OTHERWISE EROSION CONTROLLED ON A SEMI-PERMANENT BASIS.
- 7. ALL EARTHWORKS TO BE CARRIED OUT IN DRY WEATHER, PREFERABLY BETWEEN MAY & SEPTEMBER. CONTRACTOR TO SUSPEND EARTHWORKS OPERATIONS DURING HEAVY RAINFALLS.
- 8. MECHANICAL TREATMENT USING SAND FILTER AND FLOCSOCKS TO BE INSTALLED IF REQUIRED.

SEDIMENT CONTROL NOTES

- 1. DEVELOPER'S CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SITE SILTATION CONTROL AS NECESSARY TO PREVENT THE RELEASE OF SILT LADEN WATERS FROM ENTERING ANY STORM SEWER AND DITCH SYSTEM.
- 2. DEVELOPER'S CONTRACTOR TO INSTALL TEMPORARY SITE SILTATION CONTROL TRAPS AT EACH CATCHBASIN WHICH ACCEPTS ANY SILT LADEN WATERS.
- 3. DEVELOPER'S CONTRACTOR TO INSTALL TEMPORARY GRAVEL BERM OR SILT FENCE BESIDE ALL CURB & GUTTER AREAS PRIOR TO EARTHWORKS ACTIVITY.
- 4. DEVELOPER'S CONTRACTOR TO PROPERLY INSTALL TEMPORARY SILT FENCE AROUND ALL STOCKPILES OR UNVEGETATED FILL AREAS.
- 5. DEVELOPER'S CONTRACTOR TO INSTALL DIVERSION SWALES FOR ALL SLOPES EXCEEDING 30m LENGTH.
- 6. DEVELOPER'S CONTRACTOR TO MAINTAIN SILTATION CONTROL TRAPS AS NECESSARY TO ENSURE TO PROPER OPERATION UNTIL UNTIL ALL CIVIL CONSTRUCTION FOR LOTS IS COMPLETED. AT TIME OF FINAL INSPECTION, CONTRACTOR TO CAP PIPE LEADS TO CATCHBASINS AND INFILL TRAPS, SWALES AND TO INSTALL ASPHALT CATCH BASIN SEDIMENT TRAPS.
- 7. DEVELOPER'S CONTRACTOR TO REMOVE SILT FROM ASPHALT CATCH BASIN SEDIMENT TRAPS ON A REGULAR AND AS-NEEDED BASIS UNTIL THE END OF THE MAINTENANCE PERIOD OR UNTIL 90% OF THE LOTS HAVE BEEN BUILT ON, WHICHEVER OCCURS LATER.
- 8. SITE DISCHARGE TO BE LIMITED TO 25 NTU AFTER NON-SIGNIFICANT & 75 NUT AFTER SIGNIFICANT RAINFALL EVENTS WEN PERMIT ISSUED.
- 9. EXPOSED SLOPES TO BE COVERED IN POLY PLASTIC IMMEDIATELY TO PREVENT CREATION OF SILT-LADEN RUNOFF. PERMANENT (AND TEMPORARY SLOPES TO BE LEFT FOR MORE THAN 30 DAYS WITHIN THE GROWING SEASON (PRIOR TO SEPTEMBER 15)) TO BE SEEDED AND COVERED WITH STRAW AT A MINIMUM RATE OF 5,000 kg/ha.
- 10. IN ADDITION TO WORKS DESCRIBED ABOVE, AREAS WITH SLOPING TERRAIN BETWEEN 20% AND 30% TO HAVE:
- 10.1. INTERCEPTOR DITCHES AT 5 METER INTERVALS VERTICALLY
- 10.2. SEDIEMENT CONTROL POND FOR 1.0% TOTAL DISTRIBUTED AREA, OR IN ACCORDANCE WITH A DESIGN WITH A REGISTERED PROFESSIONAL ENGINEER WITH ALL RUNOFF FROM THE DISTURBED AREA DIRECTED TO THE THE POND; AND
- 10.3. AS REQUIRED FOR OTHER AREAS

STAGE 1

1. PRIOR TO ANY CLEARING OR EXCAVATION, THE SITE CONTRACTOR SHALL INSTALL SNOW FENCE AROUND THE PERIMETER OF THE WORK AREA AS SHOWN TO PREVENT ACCESS TO UNDISTURBED AREA (AS APPLICABLE).

STAGE 2

- 1. ALL SILT-LADEN WATER TO BE DIRECTED TO AND FLOW THROUGH SEDIMENT CONTROL PONDS.
- EXPOSED SLOPES AND EARTH TO BE COVERED IMMEDIATELY TO PREVENT CREATION OF SILT-LADEN RUNOFF.
- 3. SEDIMENT CONTROL FACILITIES TO BE CHECKED FOR PROPER OPERATION AND MAINTAINED AS NECESSARY (MIN. ONCE PER WEEK).

STAGE 3

- 1. ALL CB SEDIMENT TRAPS TO BE REMOVED AND CONTENTS DISPOSED OF OFFSITE.
- 2. SEDIMENT TO BE REMOVED FROM SEDIMENT CONTROL POND (WITH VACUUM TRUCK) AND DISPOSED OF OFFSITE. POND TO BE BACKFILLED WITH GRANULAR MATERIAL.
- 3. TEMPORARY SNOW FENCE TO BE REMOVED.

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