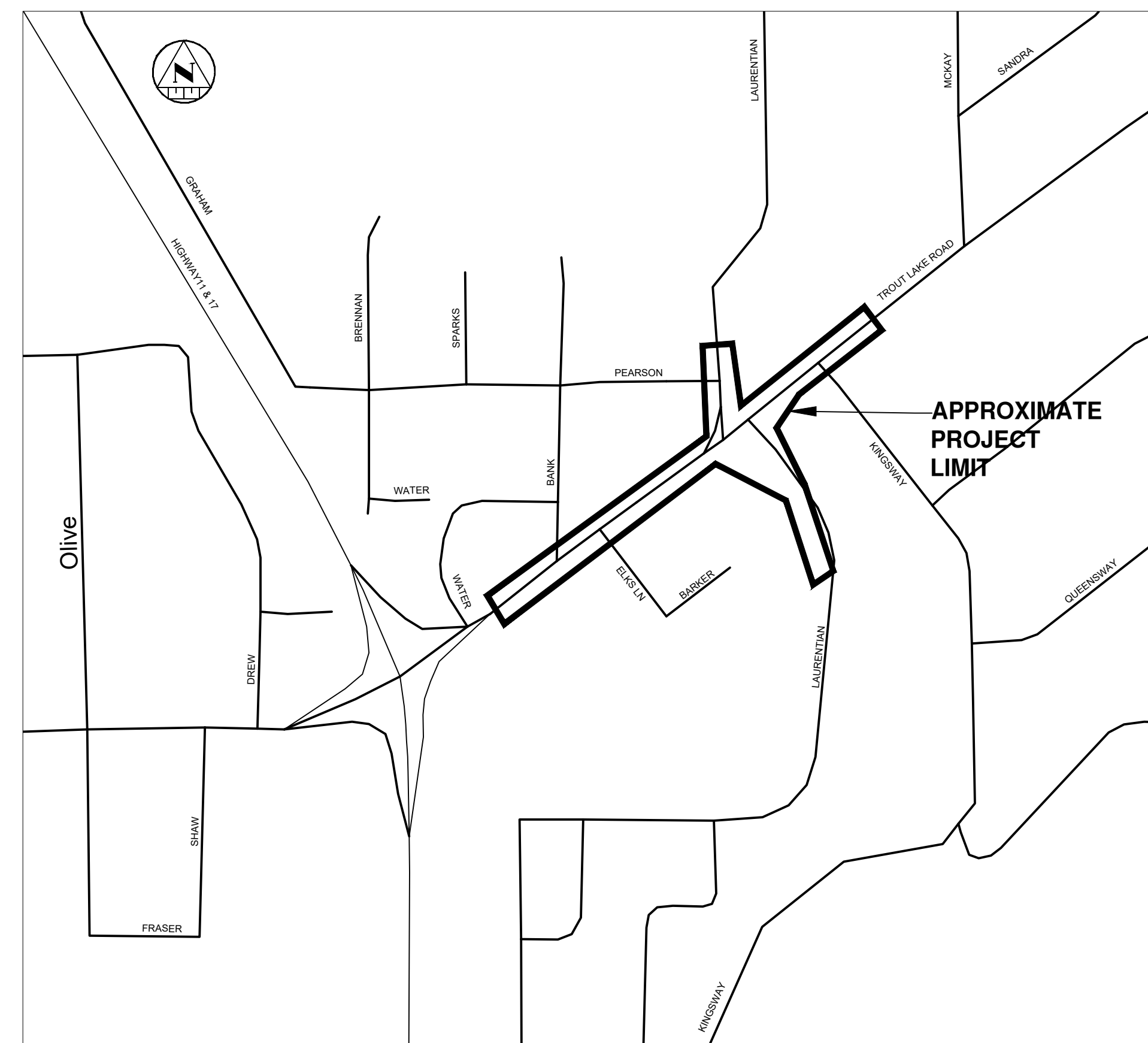


# THE CORPORATION OF THE CITY OF NORTH BAY TROUT LAKE ROAD CONSTRUCTION INCLUDING LAURENTIAN AVE ROUNDABOUT

TENDER 2026-038



DRAWING INDEX		
Sheet No.	DWG. No.	DRAWING TITLE
1		COVER PAGE
2	G-1	GENERAL PLAN
3	STG1	CONSTRUCTION STAGING CONCEPT NOTES
4	R-1	EXISTING CONDITIONS AND REMOVAL STA 10+020 - 10+150
5	R-2	EXISTING CONDITIONS AND REMOVAL STA 10+150 - 10+250
6	R-3	EXISTING CONDITIONS AND REMOVAL STA 10+250 - 10+420
7	R-4	EXISTING CONDITIONS AND REMOVAL STA 10+420 - 10+580
8	R-5	EXISTING CONDITIONS AND REMOVAL STA 4+850 - 5+000
9	R-6	EXISTING CONDITIONS AND REMOVAL STA 5+000 - 5+130
10	R-7	EXISTING CONDITIONS AND REMOVAL STA 5+130 - 5+260
11	C-1	PLAN AND PROFILE STA 10+000 - 10+150
12	C-2	PLAN AND PROFILE STA 10+150 - 10+250
13	C-3	PLAN AND PROFILE STA 10+250 - 10+420
14	C-4	PLAN AND PROFILE STA 10+420 - 10+580
15	C-5	PLAN AND PROFILE STA 4+900 - 5+080
16	C-6	PLAN AND PROFILE STA 5+080 - 5+240
17	PE-1	PAVEMENT ELEVATIONS PLAN 1
18	PE-2	PAVEMENT ELEVATIONS PLAN 2
19	PE-3	PAVEMENT ELEVATIONS PLAN 3
20	PM&S1	PAVEMENT MARKINGS AND SIGNAGE PLAN 1
21	PM&S2	PAVEMENT MARKINGS AND SIGNAGE PLAN 2
22	PM&S3	PAVEMENT MARKINGS AND SIGNAGE PLAN 3
23	D-1	TYPICAL SECTIONS 1
24	D-2	TYPICAL SECTIONS 2
25	D-3	STANDARD DETAILS PLAN 1
26	D-4	STANDARD DETAILS PLAN 2
27	SL-1	ELECTRICAL STREET LIGHTING PLAN
28	SL-2	ELECTRICAL STREET LIGHTING DETAILS 1 OF 2
29	SL-3	ELECTRICAL STREET LIGHTING DETAILS 2 OF 2
30	L-1	LANDSCAPE DESIGN PLAN



**CONSTRUCTION STAGING NOTES**

**GENERAL STAGING NOTES**

1. CONTRACTOR SHALL PREPARE AND SUBMIT A DETAILED TRAFFIC CONTROL PLAN (TCP) IN ACCORDANCE WITH ONTARIO TRAFFIC MANUAL (OTM) BOOK 7, MINISTRY OF TRANSPORTATION (MTO) FOR REVIEW AND APPROVAL BY THE CONTRACT ADMINISTRATOR AND THE CITY OF NORTH BAY PRIOR TO COMMENCEMENT OF WORK.
2. ALL TEMPORARY TRAFFIC CONTROL DEVICES INCLUDING SIGNAGE, TEMPORARY SIGNALS, BARRICADES, PAVEMENT MARKINGS, CHANNELIZATION DEVICES, AND BARRIERS SHALL BE SUPPLIED, INSTALLED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH OTM BOOK 7 AND MUNICIPAL REQUIREMENTS.
3. A MINIMUM OF TWO TRAFFIC LANES (ONE LANE PER DIRECTION) SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY.
4. TEMPORARY LANE WIDTHS, BUFFERS, BARRIER TYPES, AND TRAFFIC CONTROL DETAILS SHALL BE PROVIDED IN THE CONTRACTOR'S TCP SUBMISSION. STAGING CROSS-SECTIONS SHOWN ARE CONCEPTUAL ONLY.
5. SAFE, CONTINUOUS PEDESTRIAN ACCESS SHALL BE MAINTAINED ON A HARD-SURFACE PATH (ASPHALT OR CONCRETE) AT ALL TIMES. TEMPORARY PEDESTRIAN DETOURS SHALL BE SIGNED AND BARRIER-PROTECTED IN ACCORDANCE WITH OTM BOOK 7.
6. ACCESS SHALL BE MAINTAINED FOR EMERGENCY SERVICES, TRANSIT, BUSINESSES, AND PRIVATE PROPERTIES AT ALL TIMES UNLESS OTHERWISE APPROVED BY THE CITY.
7. FULL ROAD CLOSURES SHALL NOT BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM THE CITY OF NORTH BAY.
8. TEMPORARY TRAFFIC CONTROL MEASURES SHALL BE INSPECTED DAILY AND IMMEDIATELY REPAIRED OR REPLACED AS REQUIRED.
9. REQUESTS FOR LANE CLOSURES SHALL BE SUBMITTED TO THE CITY A MINIMUM OF 48 HOURS IN ADVANCE.
10. CONTRACTOR SHALL COORDINATE TRAFFIC STAGING WITH THE CITY, EMERGENCY SERVICES, TRANSIT AUTHORITIES, AND ALL AFFECTED UTILITIES.
11. TRAFFIC CONTROL REQUIREMENTS AT HIGHWAY 11/17 INTERSECTION SHALL BE ADDRESSED IN THE CONTRACTOR'S TCP SUBMISSION.
12. STAGING LIMITS SHOWN ARE CONCEPTUAL. FINAL STAGING DETAILS SHALL BE CONFIRMED THROUGH CONTRACTOR TCP SUBMISSION.

**STAGE 1 - NORTH SIDE WIDENING**

1. CLOSE BOTH WESTBOUND LANES AS SHOWN IN THE SECTION ON TROUT LAKE ROAD.
2. REMOVE EXISTING CURB, SIDEWALK, AND BOULEVARD. PREPARE SUBGRADE AND INSTALL TEMPORARY ROAD WIDENING.
3. MAINTAIN EXISTING SIDEWALK ALONG SOUTH SIDE OF TROUT LAKE ROAD FOR PEDESTRIAN ACCESS.
4. EXISTING ASPHALT ON TROUT LAKE ROAD SHALL REMAIN IN PLACE DURING THIS STAGE.
5. CONTRACTOR SHALL PROVIDE CONTROLLED PEDESTRIAN CROSSINGS AND HARD-SURFACE WALKWAYS. GRANULAR SURFACES SHALL NOT BE PERMITTED.
6. SHIFT TRAFFIC SOUTH OF CENTERLINE TO MAINTAIN ONE LANE IN EACH DIRECTION.
7. CONTRACTOR SHALL COORDINATE UTILITY RELOCATIONS WITH ALL LOCAL UTILITIES.
8. NORTH LEG OF LAURENTIAN AVENUE MAY BE CLOSED FOR CONSTRUCTION. DETOUR SHALL BE PROVIDED VIA BANK STREET WHICH SHALL REMAIN OPEN AT ALL TIMES.
9. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND TEMPORARY STREET LIGHTING. PLAN MUST BE SUBMITTED AND REVIEWED BY THE CITY PRIOR TO IMPLEMENTATION.

**STAGE 2 - SOUTH SIDE WORKS AND CENTRAL ISLAND**

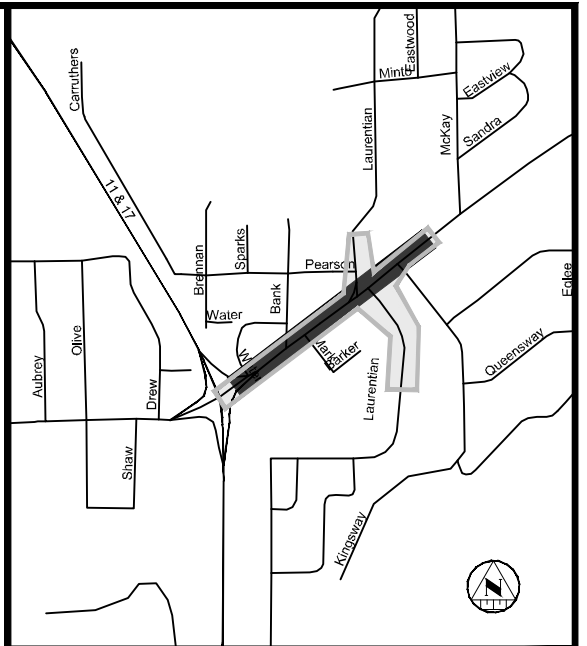
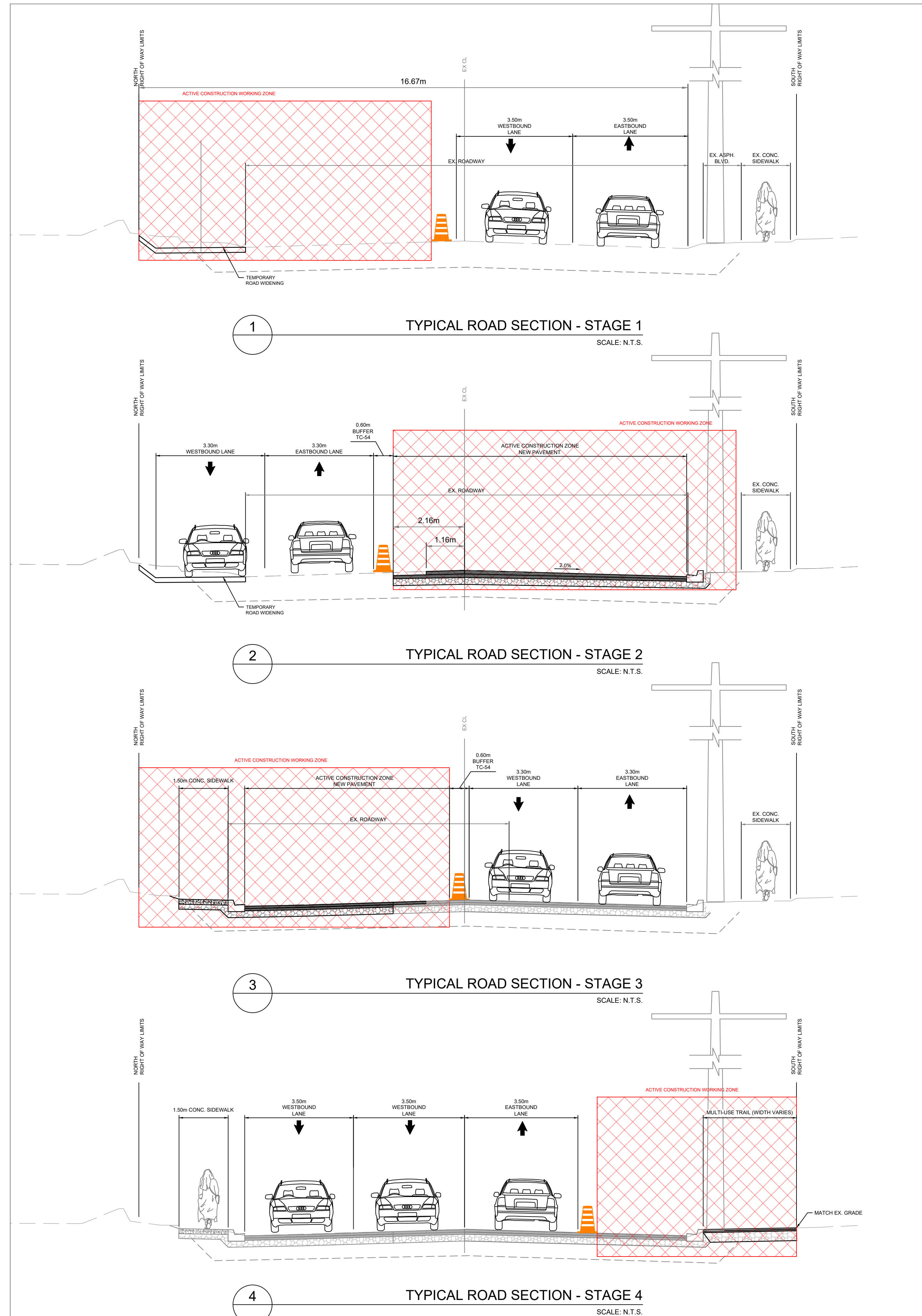
1. SHIFT TRAFFIC TO NORTH SIDE OF TROUT LAKE ROAD TO MAINTAIN ONE LANE IN EACH DIRECTION.
2. COMPLETE TEMPORARY ASPHALT TRANSITIONS PRIOR TO TRAFFIC SHIFT.
3. CONSTRUCT TROUT LAKE ROAD FROM APPROXIMATELY HALF OF THE INSIDE WESTBOUND LANE TO ELIMINATE UNCONSTRUCTED SLIVER AREAS BETWEEN LIVE TRAFFIC LANES.
4. CONSTRUCT ROADWORKS TO SOUTHERN LIMITS INCLUDING SOUTH PORTION OF CENTRAL ISLAND AND SPLITTER ISLANDS OF THE ROUNDABOUT.
5. WORKS SHALL INCLUDE GRANULAR BASE, CURBS, SUBDRAINS, BASE ASPHALT, SIDEWALK/MULTI-USE PATH, STORM SEWERS, AND STREET LIGHTING.
6. MAINTAIN TRAFFIC THROUGH THE ROUNDABOUT USING TEMPORARY ASPHALT INSTALLED DURING STAGE 1.
7. CONTRACTOR SHALL PROVIDE CONTROLLED PEDESTRIAN CROSSINGS AND HARD-SURFACE WALKWAYS. GRANULAR SURFACES SHALL NOT BE PERMITTED.
8. ACCESS TO SOUTH LEG OF LAURENTIAN AVENUE SHALL BE MAINTAINED AT ALL TIMES.
9. NO CONSTRUCTION SHALL OCCUR WITHIN THE EXISTING LAURENTIAN AVENUE ALIGNMENT UNTIL TRAFFIC HAS BEEN SHIFTED TO THE NEW ALIGNMENT.
10. KINGSWAY AVENUE MAY BE TEMPORARILY CLOSED AND DETOURED VIA CONNAUGHT AVENUE SUBJECT TO CITY APPROVAL AND COMPLETION OF REQUIREMENTS UNDER NBSS 051.
11. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND TEMPORARY STREET LIGHTING AS REQUIRED.

**STAGE 3 - SOUTH SIDE TRAFFIC SHIFT AND COMPLETION OF WORKS**

1. SHIFT TRAFFIC TO SOUTH SIDE OF TROUT LAKE ROAD MAINTAINING ONE LANE IN EACH DIRECTION.
2. COMPLETE TEMPORARY ASPHALT TRANSITIONS PRIOR TO TRAFFIC SHIFT.
3. CONSTRUCTION LIMITS SHALL ENDOACH INTO THE INSIDE EASTBOUND LANE TO ELIMINATE UNCONSTRUCTED OR ISOLATED ROADWAY AREAS.
4. CONSTRUCT ROADWORKS TO NORTHERN LIMITS INCLUDING NORTH PORTION OF CENTRAL ISLAND AND SPLITTER ISLANDS WEST OF THE ROUNDABOUT.
5. WORKS SHALL INCLUDE GRANULAR BASE, CURBS, SUBDRAINS, BASE ASPHALT, SIDEWALK/MULTI-USE PATH, STORM SEWERS, AND STREET LIGHTING.
6. COMPLETE REMAINING ROUNDABOUT ROADWAY WORKS INCLUDING CENTRAL ISLAND, SPLITTER ISLANDS, AND FINAL TIE-INS.
7. CONTRACTOR SHALL PROVIDE CONTROLLED PEDESTRIAN CROSSINGS AND HARD-SURFACE WALKWAYS. GRANULAR SURFACES SHALL NOT BE PERMITTED.
8. NEW LAURENTIAN AVENUE ALIGNMENT SHALL BE FULLY CONSTRUCTED AND TRAFFIC SHALL BE DIRECTED ONTO THE NEW ALIGNMENT.
9. ACCESS TO SOUTH LEG OF LAURENTIAN AVENUE SHALL BE MAINTAINED AT ALL TIMES USING THE NEW ALIGNMENT.

**STAGE 4 - CONSTRUCTION OF MULTI-USE PATHWAY AND RESTORATION**

1. REMOVE ALL TEMPORARY ASPHALT, TRAFFIC CONTROL DEVICES, AND TEMPORARY PEDESTRIAN FACILITIES.
2. COMPLETE FINAL PAVING, CURBS, SIDEWALKS, BOULEVARDS, AND ALL RESTORATION WORKS.



**KEY PLAN**

**NOTES**

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3. REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.
4. CONTRACTOR IS RESPONSIBLE FOR MANAGING ALL SUITABLE EXCESS MATERIALS ONSITE TO BE REUSED AS BACKFILL. THE EX. ROAD BASE MATERIALS EXCAVATED FROM TROUT LAKE ROAD IS TO BE USED FOR THE CONSTRUCTION OF THE ROUNDABOUT AND LAURENTIAN AVENUE. ALL EXCESS MATERIALS TO BE DELIVERED AND STOCKPILED AT THE CITY'S DUMP SITE OFF MORRIS STREET.

**REVISIONS**

No.	Date	By	Description
1.	JAN 06 2025	JR	ISSUED FOR 60% REVIEW
2.	FEB 10 2025	JR	ISSUED FOR 90% REVIEW
3.	MAR 20 2025	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2025	JR	ISSUED FOR TENDER

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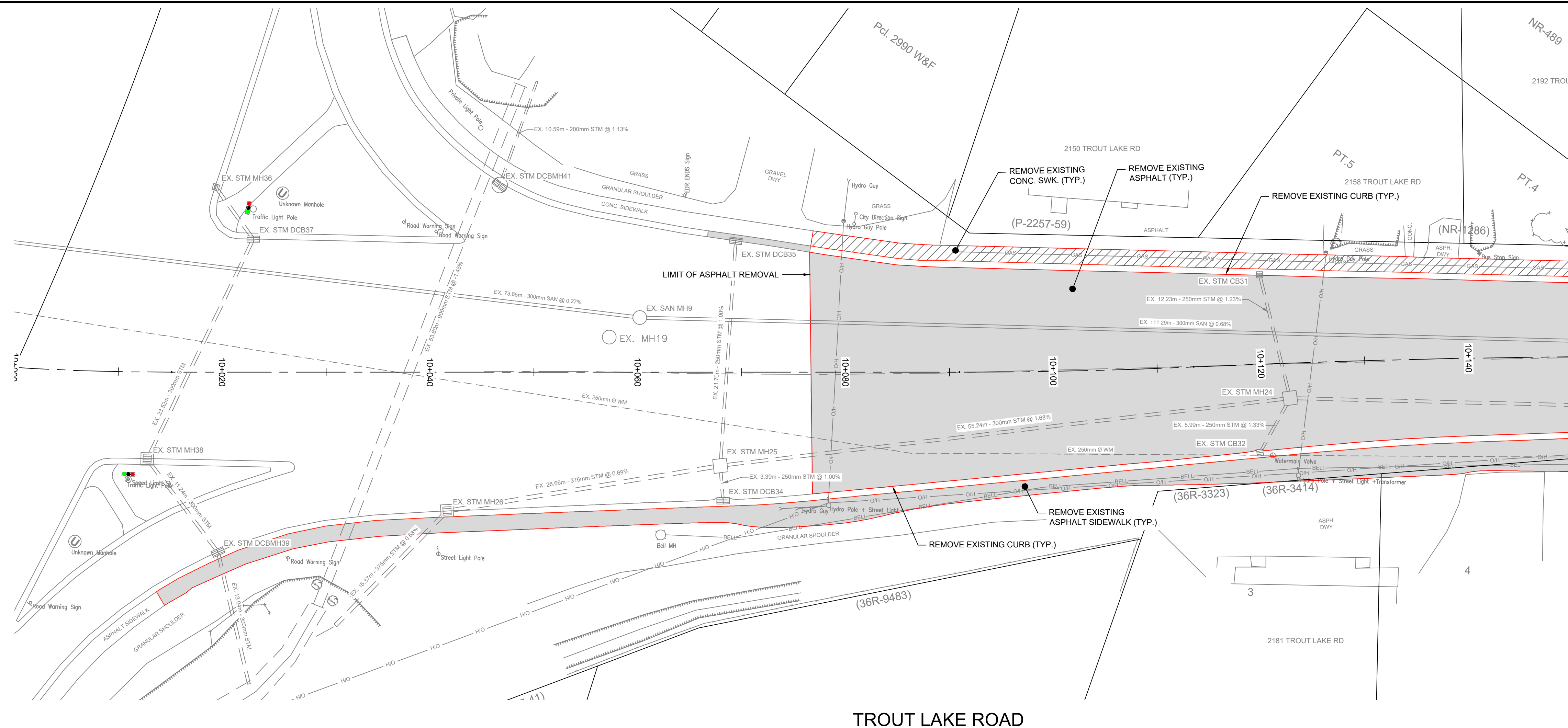


**TROUT LAKE ROAD RECONSTRUCTION**

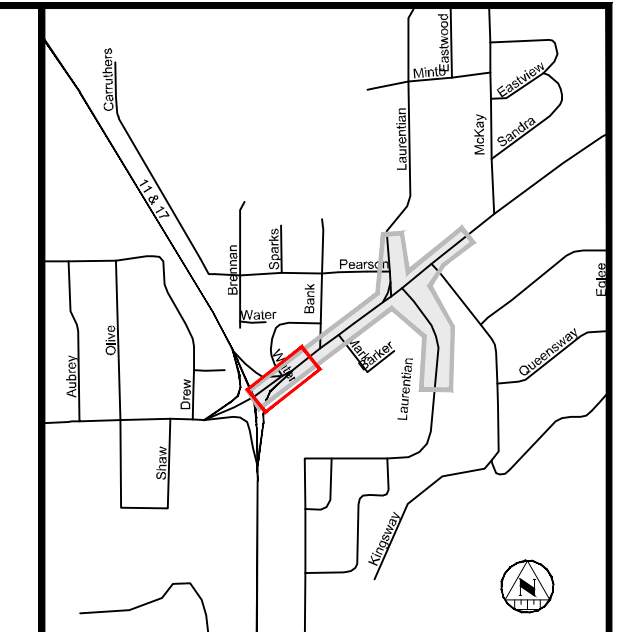
**CONCEPTUAL STAGING**

**TROUT LAKE ROAD CONSTRUCTION STAGING CONCEPT NOTES**

Designer: SF/AY	Checked by: MM
Date: 11/18/2025	Approved by: JR
Scale: 1:750	
Drawing Number: STG1	Drawing Set: 3 of 30



MATCHLINE  
STA. 10+150 SEE SHEET 5



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3.	MAR 04 2026	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2026	JR	ISSUED FOR TENDER

Professional Stamp:

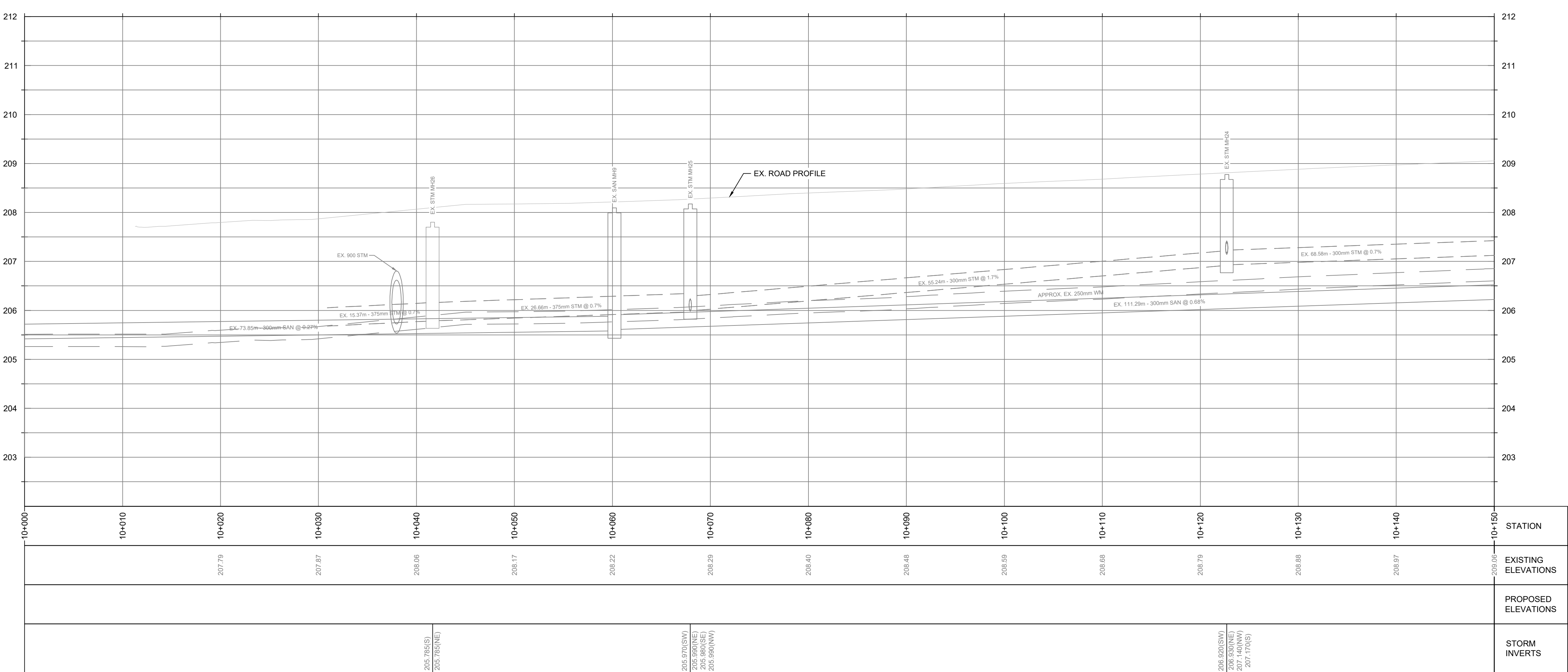


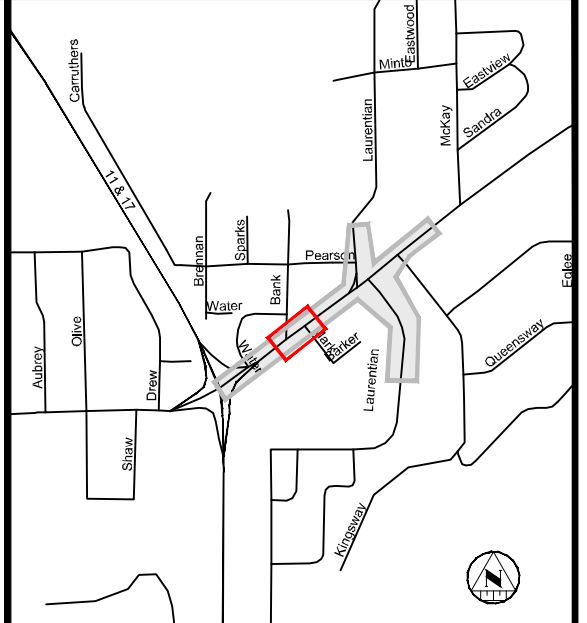
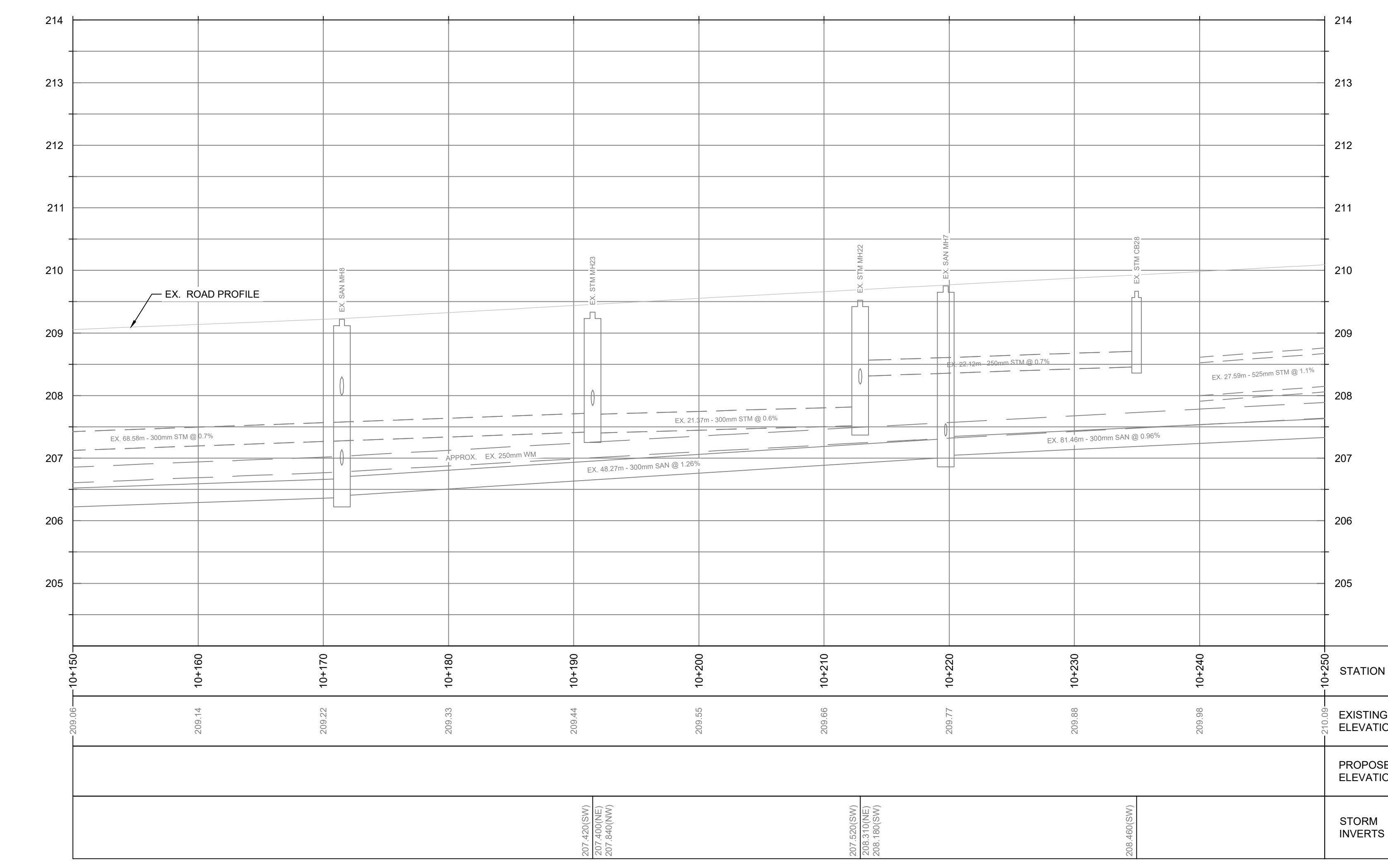
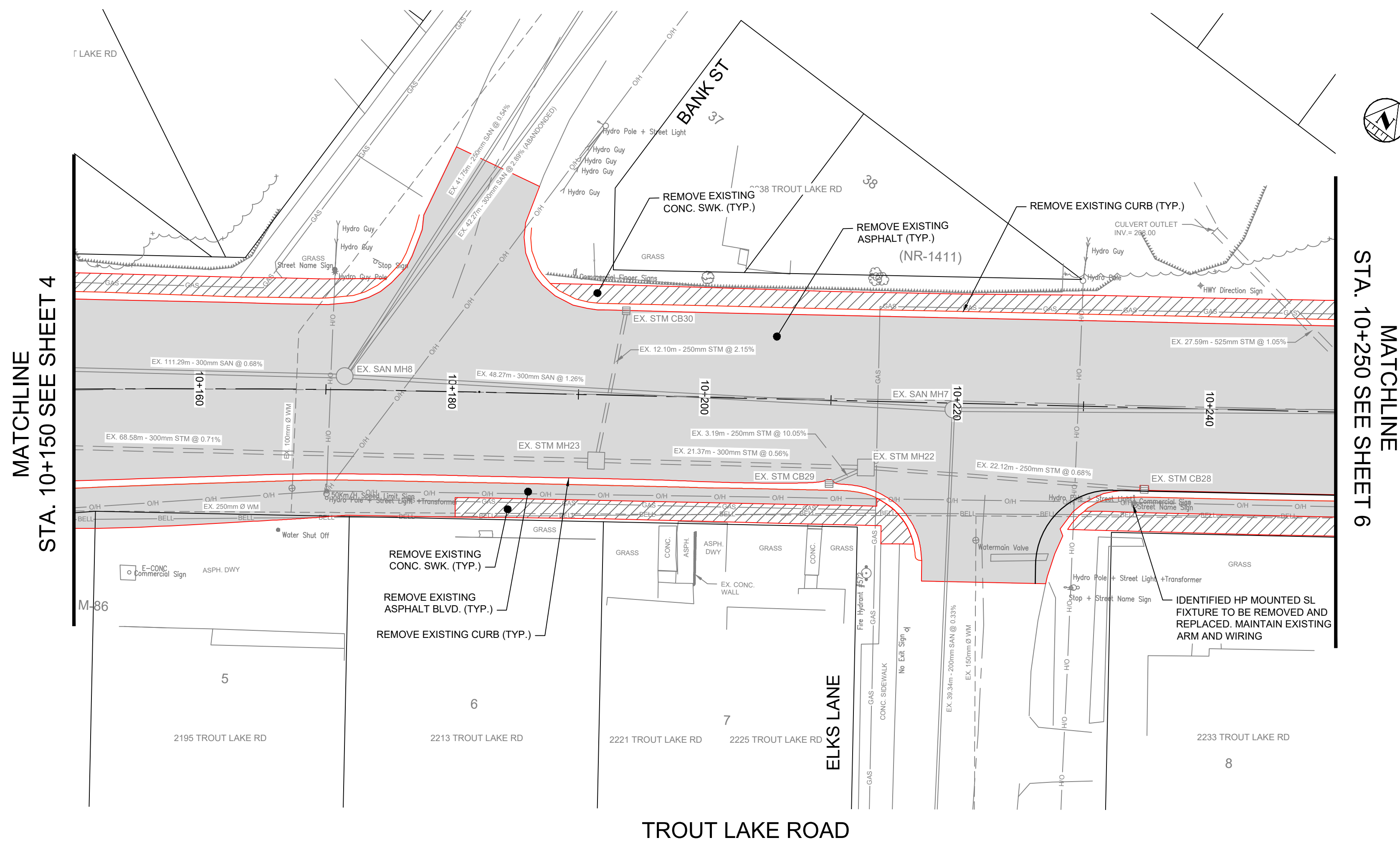
**TROUT LAKE ROAD RECONSTRUCTION**

**REMOVALS**

**TROUT LAKE ROAD EXISTING CONDITIONS AND REMOVAL STA 10+020 - 10+150**

Designer: <b>SF/AY</b>	Checked by: <b>MM</b>
Date: <b>11/18/2025</b>	Approved by: <b>JR</b>
Scale: <b>1:250</b> <b>1:50</b>	
Drawing Number: <b>R-1</b>	Drawing Set: <b>4 of 30</b>





**KEY PLAN**

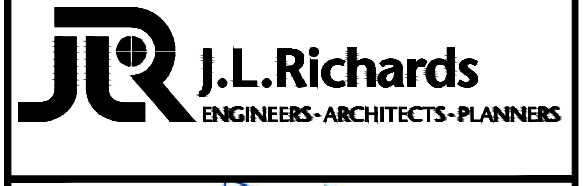
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1.	JAN 06 2026	JR	ISSUED FOR 60% REVIEW
2.	FEB 16 2026	JR	ISSUED FOR 90% REVIEW
3.	MAR 27 2026	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2026	JR	ISSUED FOR TENDER

Professional Stamp:



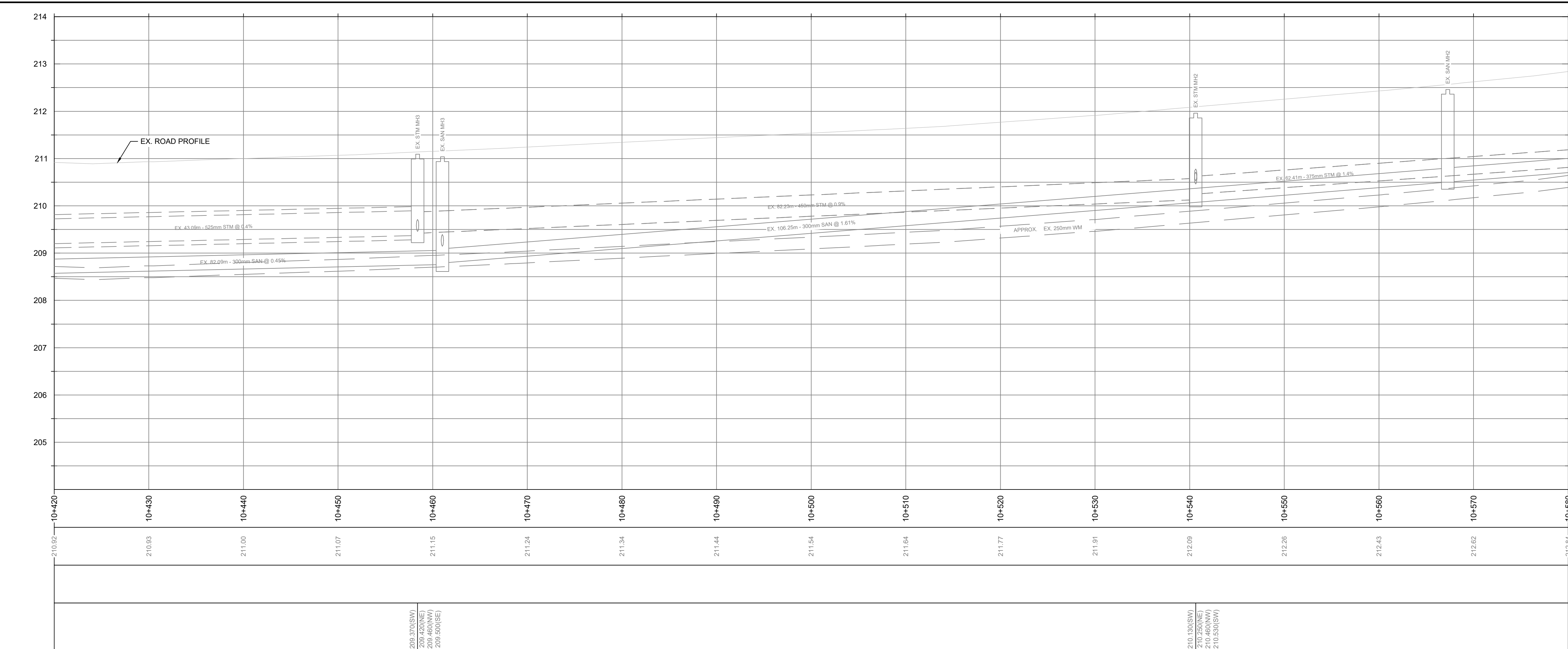
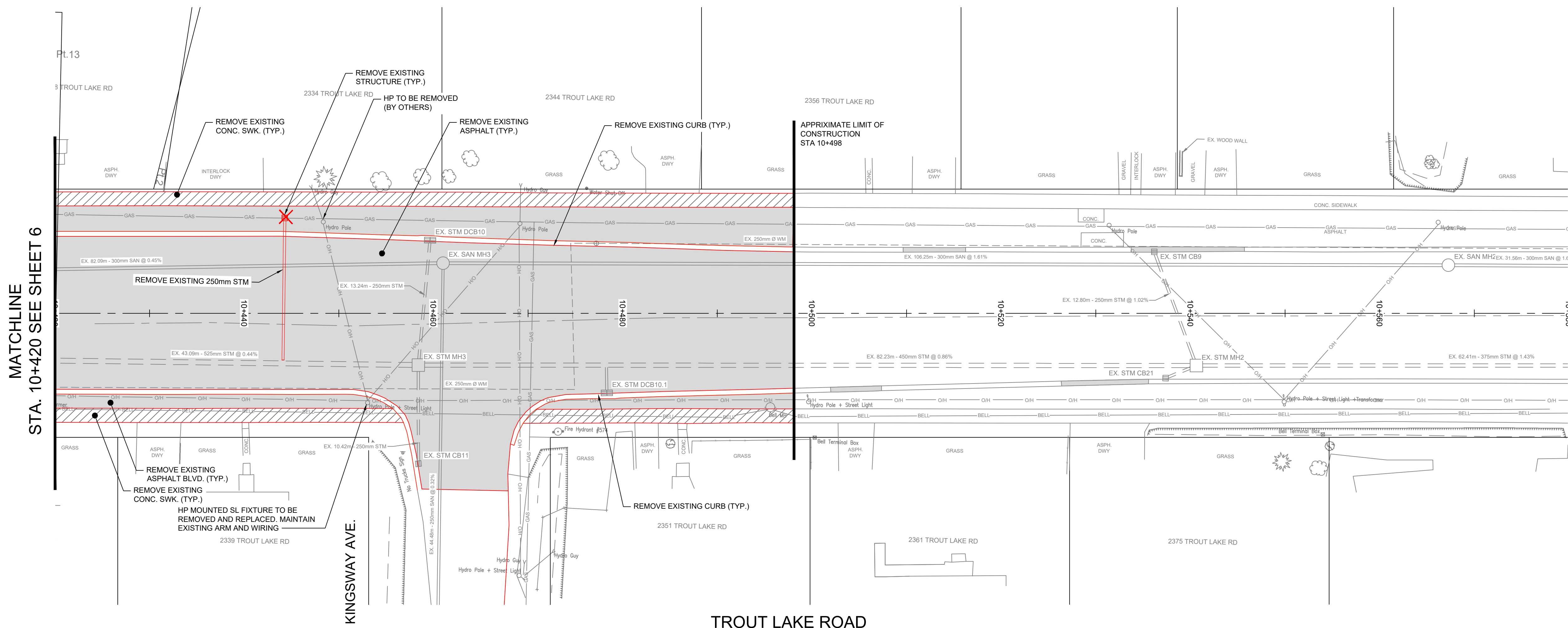
**TROUT LAKE ROAD RECONSTRUCTION**

**REMOVALS**

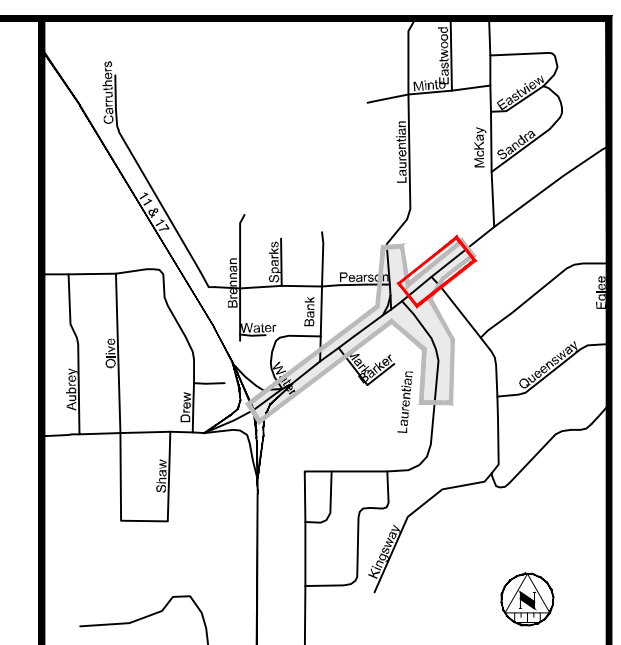
**TROUT LAKE ROAD EXISTING CONDITIONS AND REMOVAL STA 10+150 - 10+250**

Designer: SF/AY	Checked by: MM
Date: 11/18/2025	Approved by: JR
Scale: 1:250 1:50	
Drawing Number: R-2	Drawing Set: 5 of 30





210.13(SW)	210.13(SW)
210.25(WNE)	210.25(WNE)
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210.53(SW)	210.53(SW)

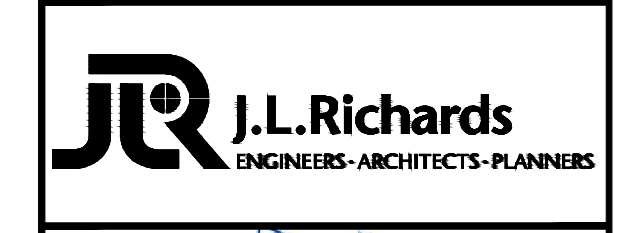


- KEY PLAN**
- NOTES**
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3.	MAR 09 2025	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2025	JR	ISSUED FOR TENDER

Professional Stamp:

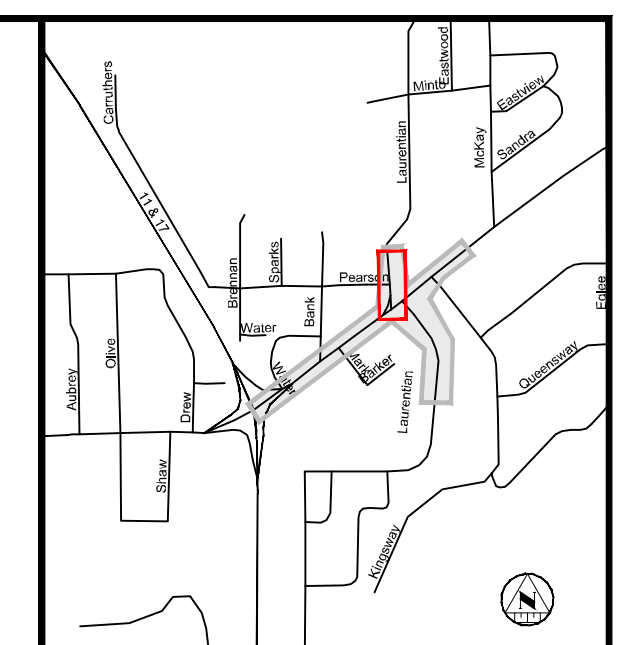
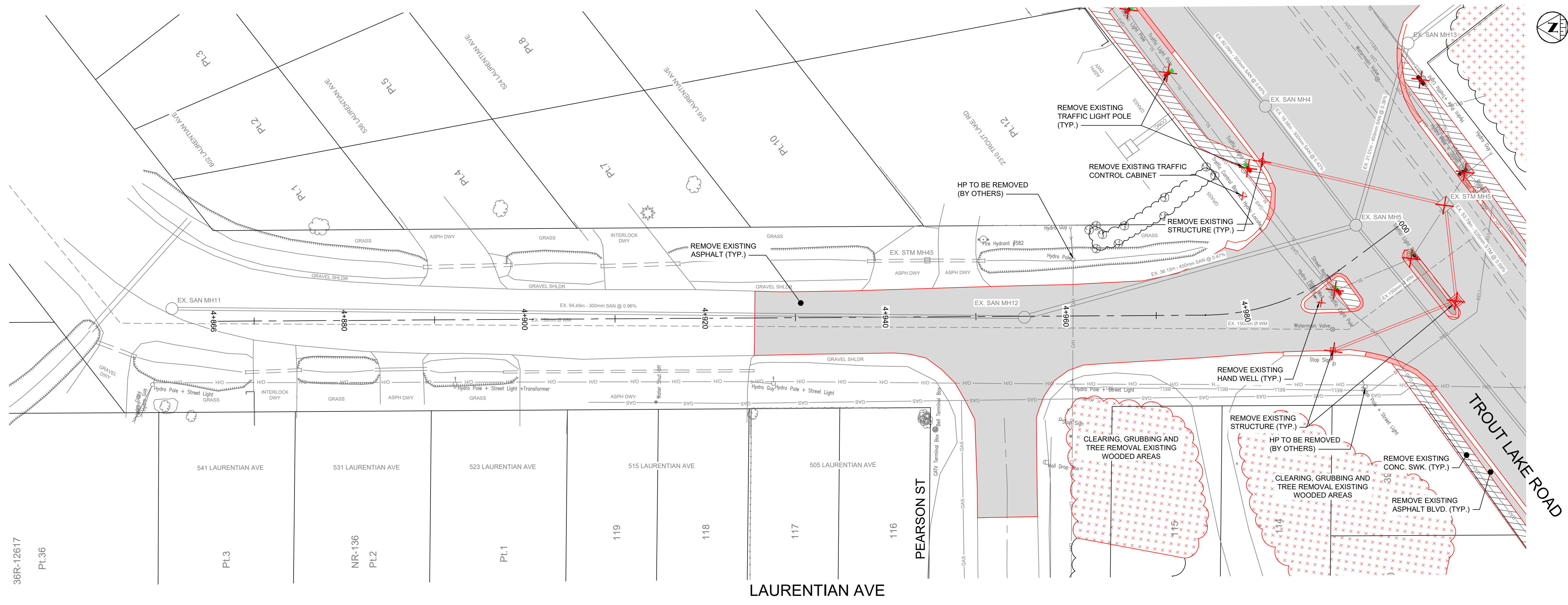


**TROUT LAKE ROAD RECONSTRUCTION**

**REMOVALS**

**TROUT LAKE ROAD EXISTING CONDITIONS AND REMOVAL STA 10+420 - 10+580**

Designer: SF/AY	Checked by: MM
Date: 11/18/2025	Approved by: JR
Scale: 1:250 1:50	
Drawing Number: <b>R-4</b>	Drawing Set: <b>7 of 30</b>



**KEY PLAN**

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Professional Stamp:

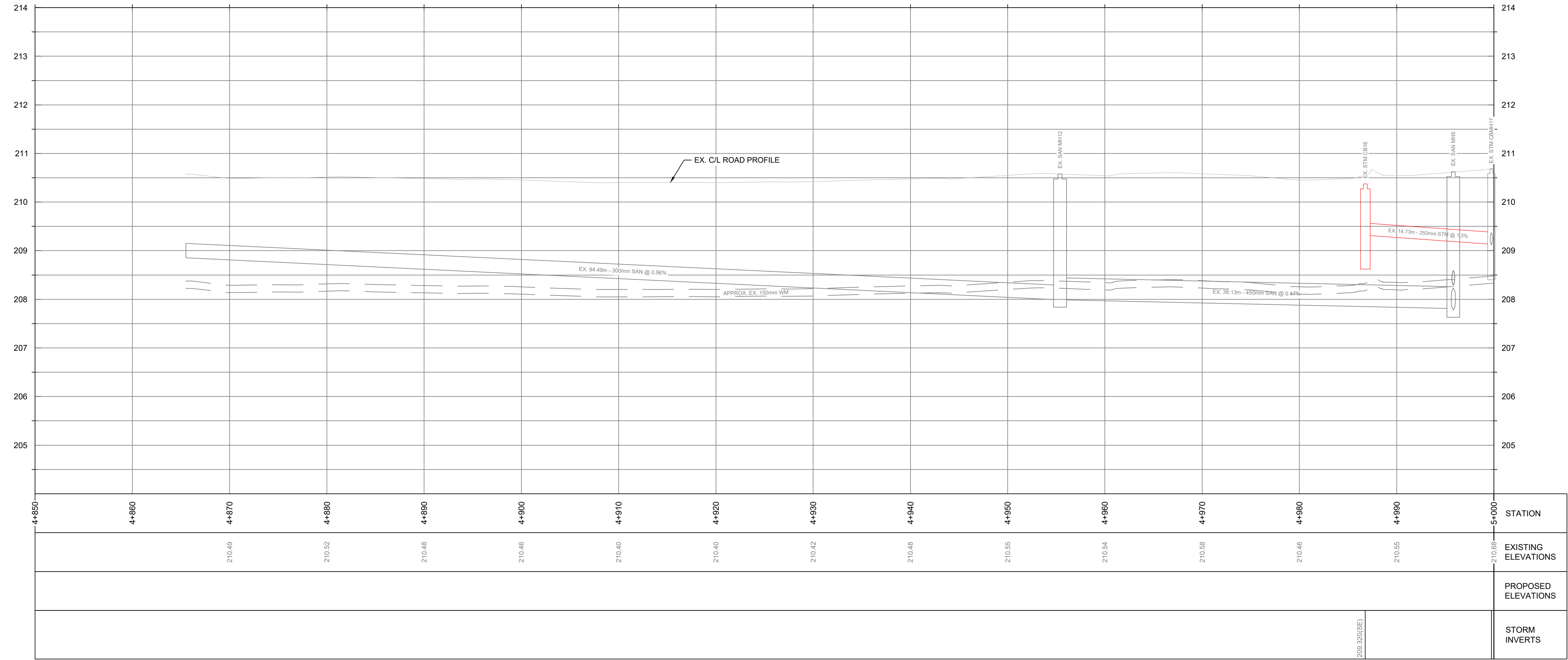


**TROUT LAKE ROAD RECONSTRUCTION**

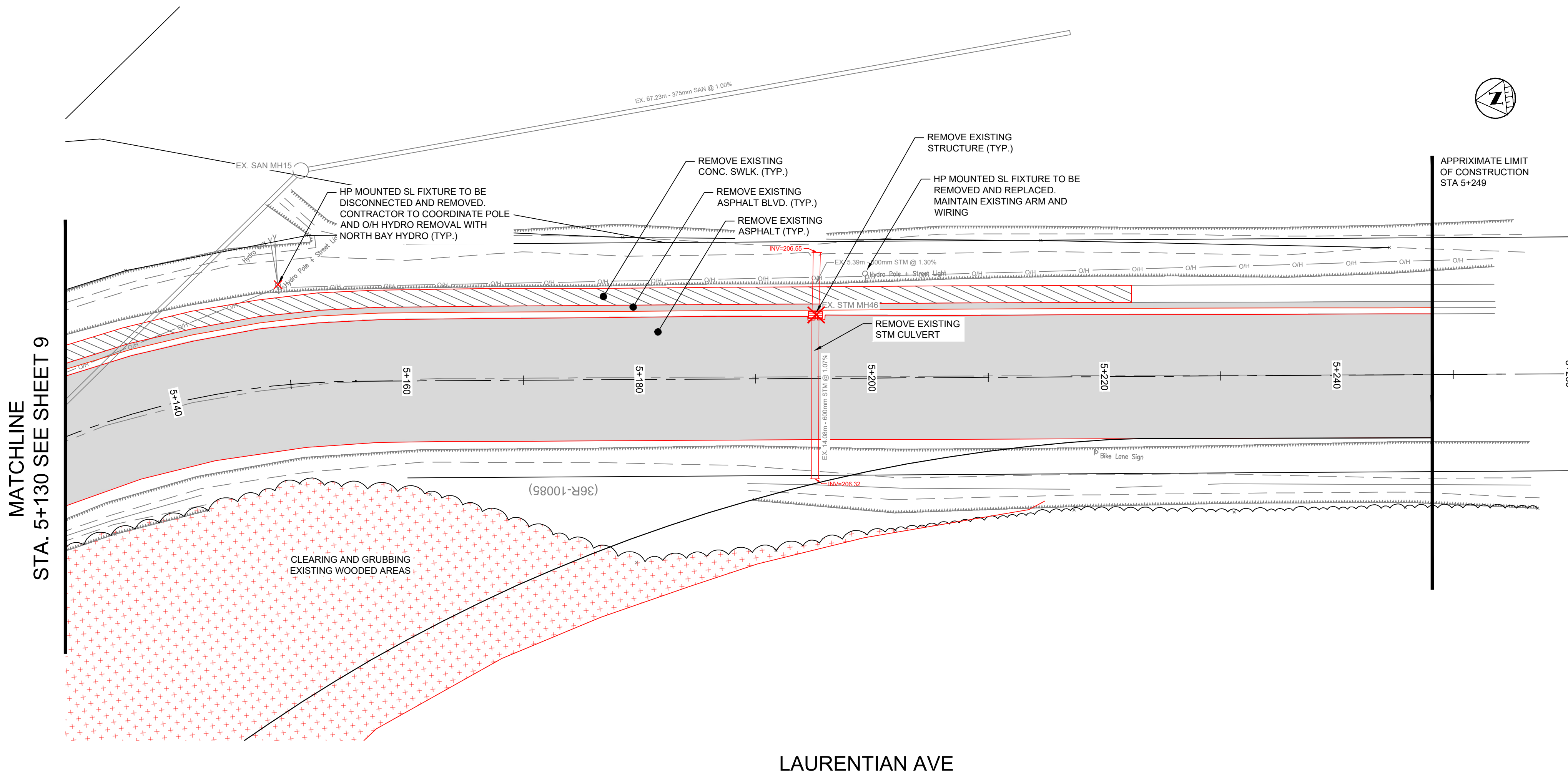
**REMOVALS**

**LAURENTIAN AVE EXISTING CONDITIONS AND REMOVAL STA 4+850 - 5+000**

Designer: SF/AY	Checked by: MM
Date: 11/18/2025	Approved by: JR
Scale: 1:250 1:50	
Drawing Number: <b>R-5</b>	Drawing Set: <b>8 of 30</b>

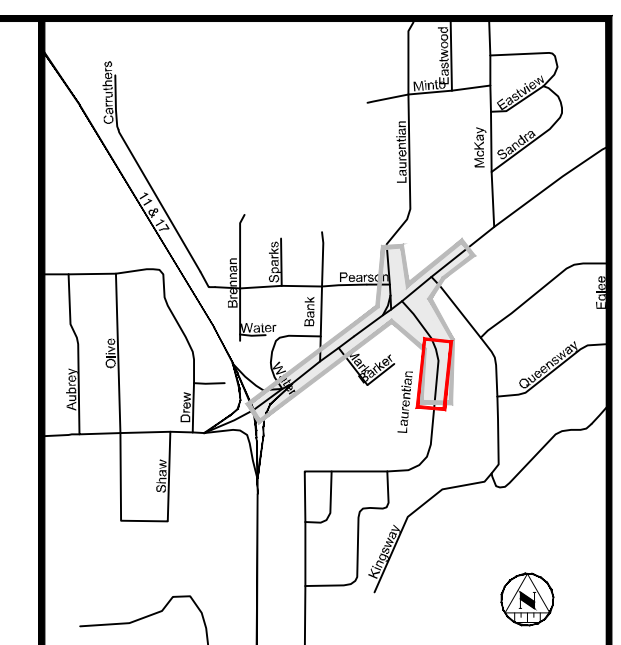






MATCHLINE  
STA. 5+130 SEE SHEET 9

LAURENTIAN AVE



**KEY PLAN**

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4.	MAR 27 2026	JR	ISSUED FOR TENDER

Professional Stamp:

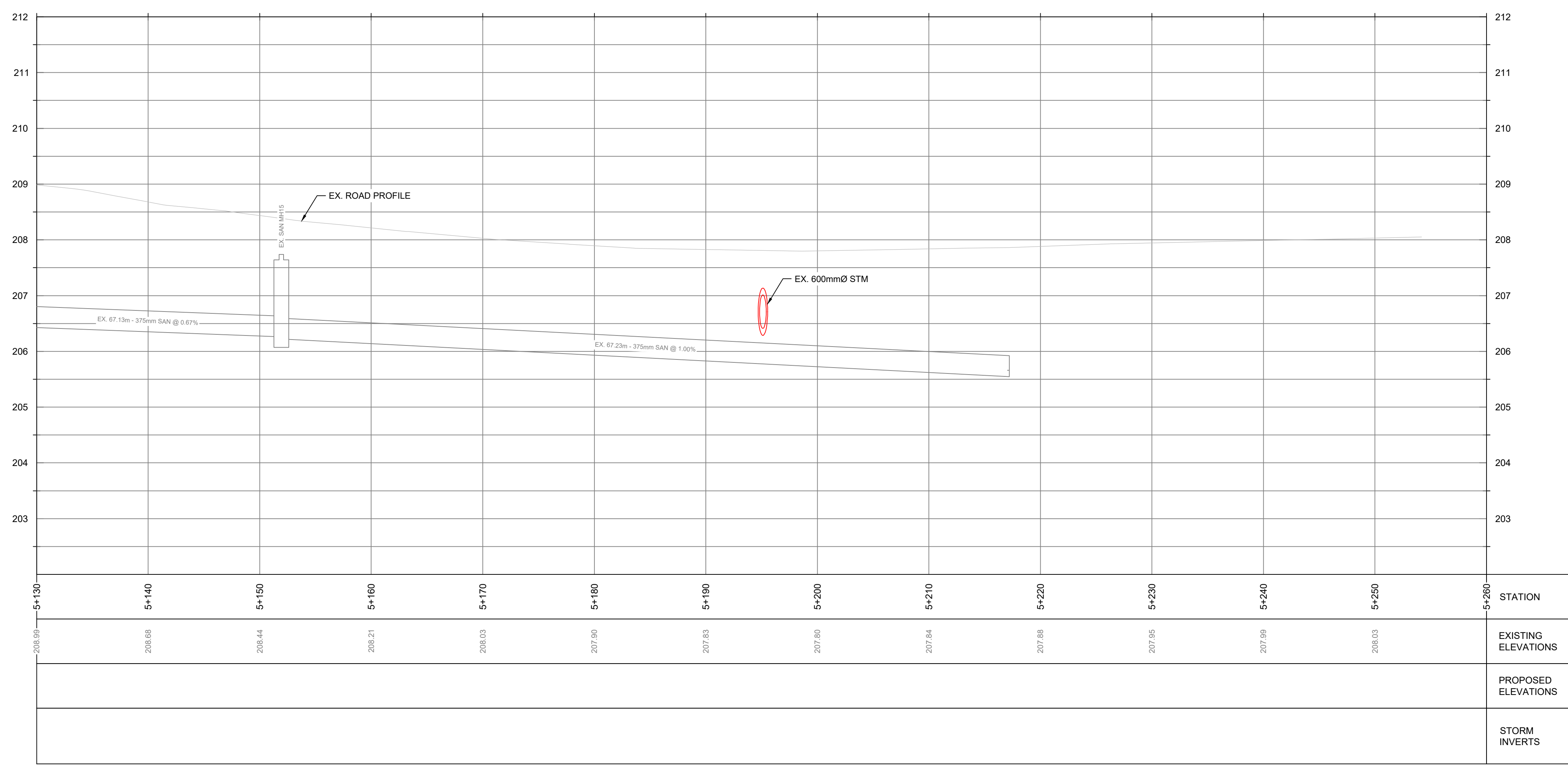


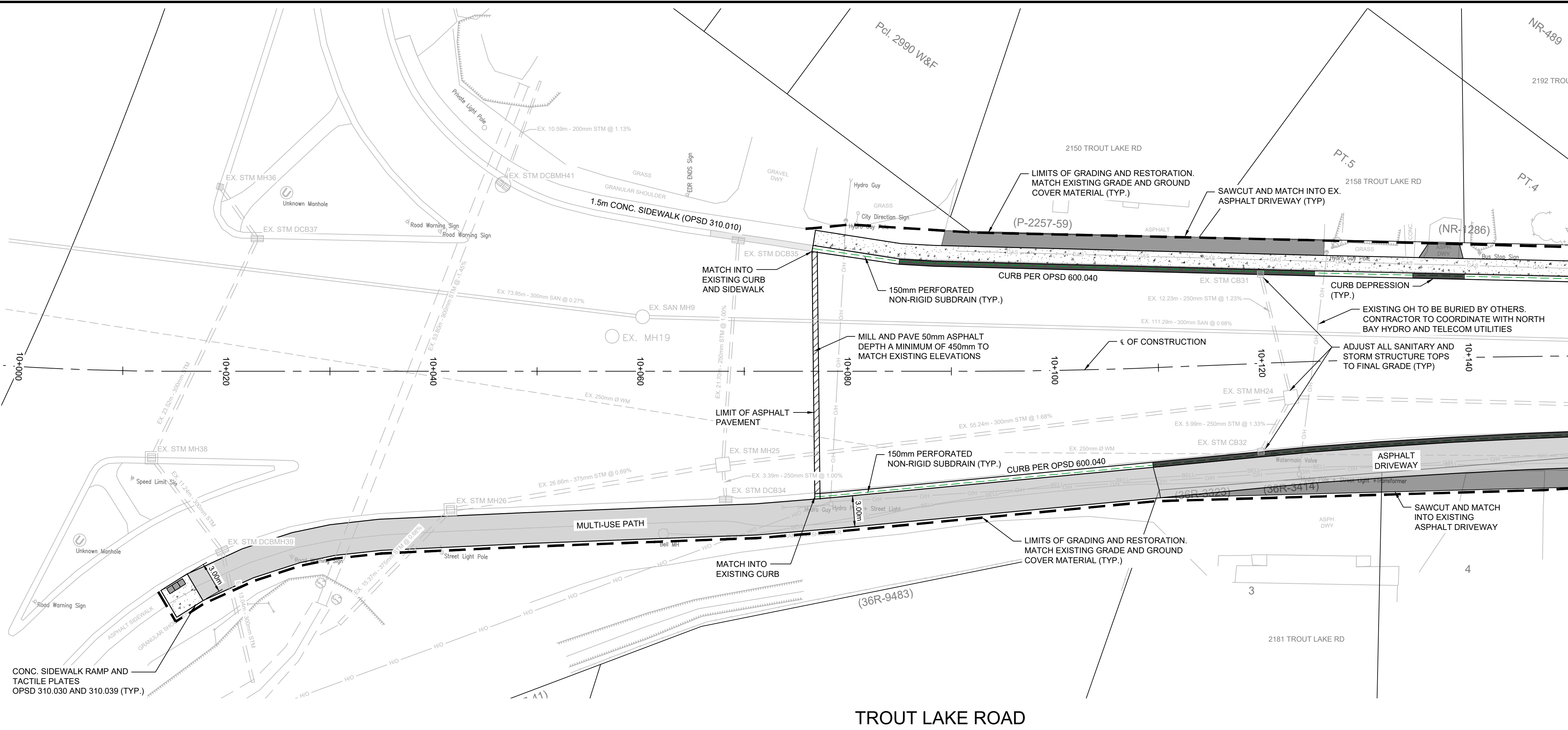
**TROUT LAKE ROAD RECONSTRUCTION**

**REMOVALS**

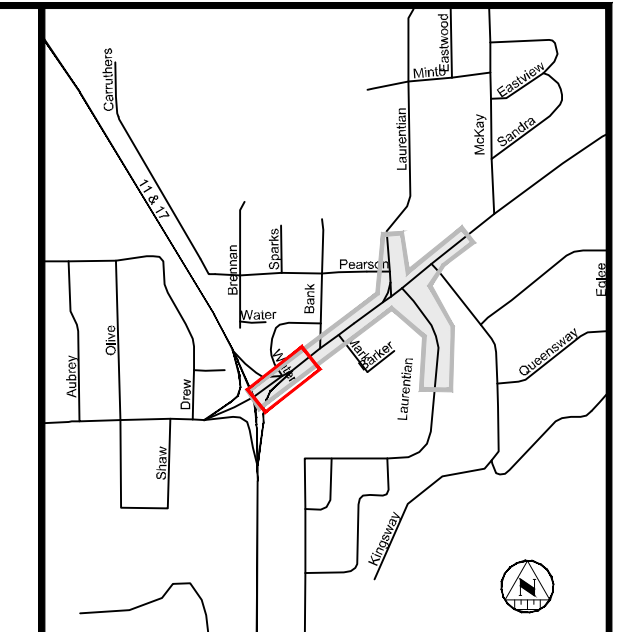
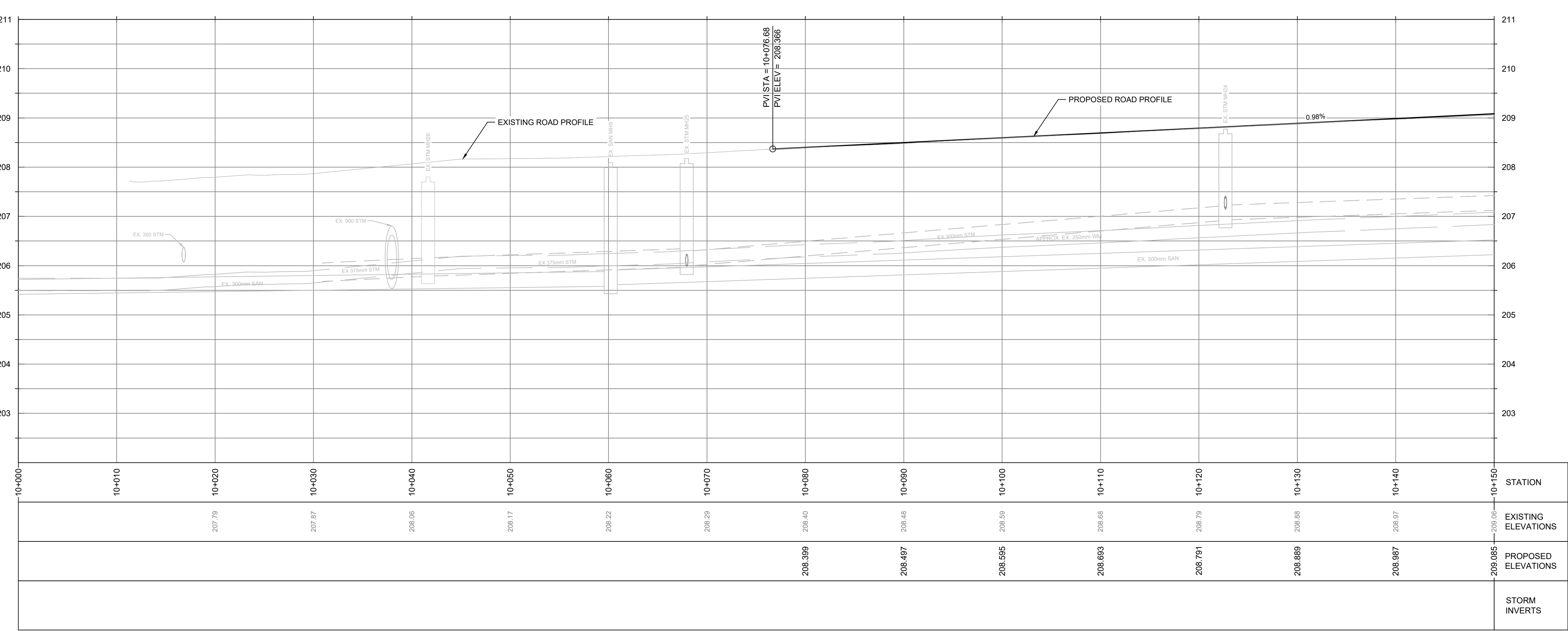
**LAURENTIAN AVE EXISTING CONDITIONS AND REMOVAL STA 5+130 - 5+260**

Designer: SF/AY	Checked by: MM
Date: 11/18/2025	Approved by: JR
Scale: 1:250 1:50	
Drawing Number: <b>R-7</b>	Drawing Set: <b>10 of 30</b>





MATCHLINE  
STA. 10+150 SEE SHEET 12



**KEY PLAN**

**NOTES**

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**REVISIONS**

No.	Date	By	Description
1.	JAN 06 2026	JR	ISSUED FOR 60% REVIEW
2.	FEB 18 2026	JR	ISSUED FOR 90% REVIEW
3.	MAR 09 2026	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2026	JR	ISSUED FOR TENDER

Professional Stamp:

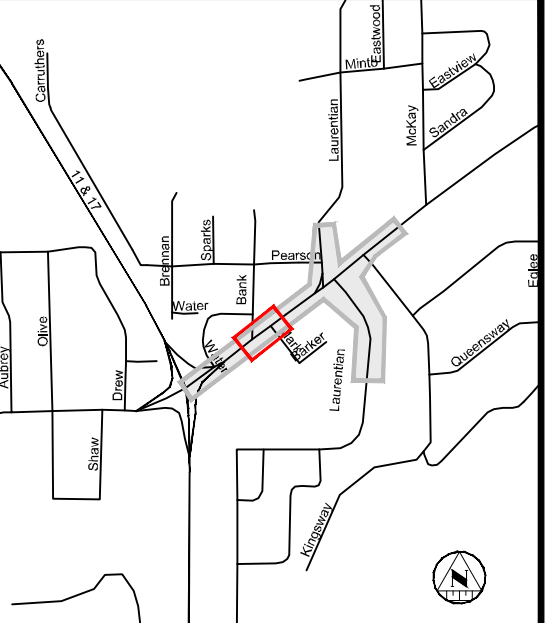
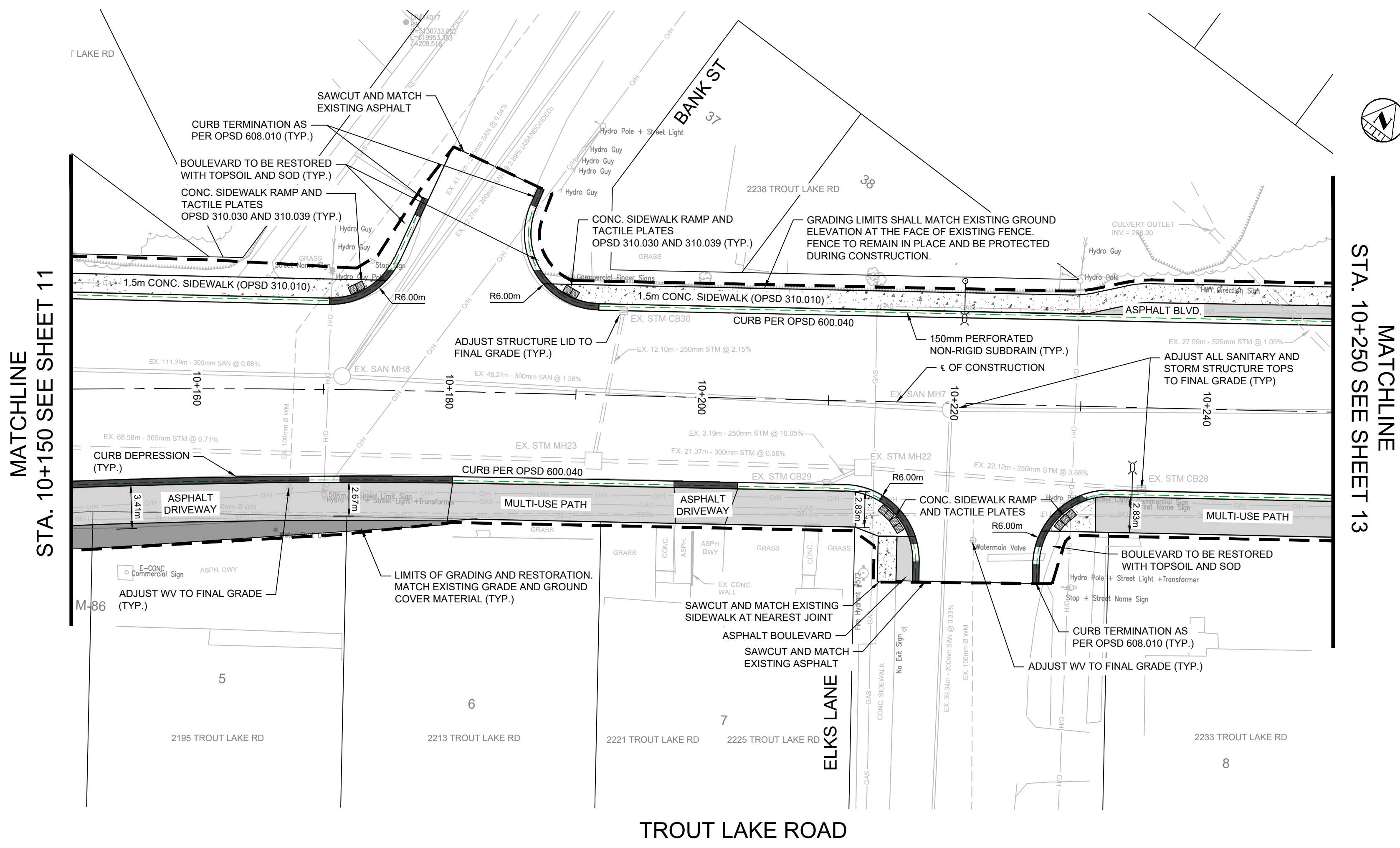


**TROUT LAKE ROAD RECONSTRUCTION**

**NEW CONSTRUCTION**

**TROUT LAKE ROAD PLAN AND PROFILE STA 10+000 - 10+150**

Designer: <b>SF/AY</b>	Checked by: <b>MM</b>
Date: <b>11/18/2025</b>	Approved by: <b>JR</b>
Scale: <b>1:250</b> <b>1:50</b>	
Drawing Number: <b>C-1</b>	Drawing Set: <b>11 of 30</b>



**KEY PLAN**

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**REVISIONS**

No.	Date	By	Description
1.	JAN 06 2026	JR	ISSUED FOR 60% REVIEW
2.	FEB 18 2026	JR	ISSUED FOR 90% REVIEW
3.	MAR 20 2026	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2026	JR	ISSUED FOR TENDER

Professional Stamp:

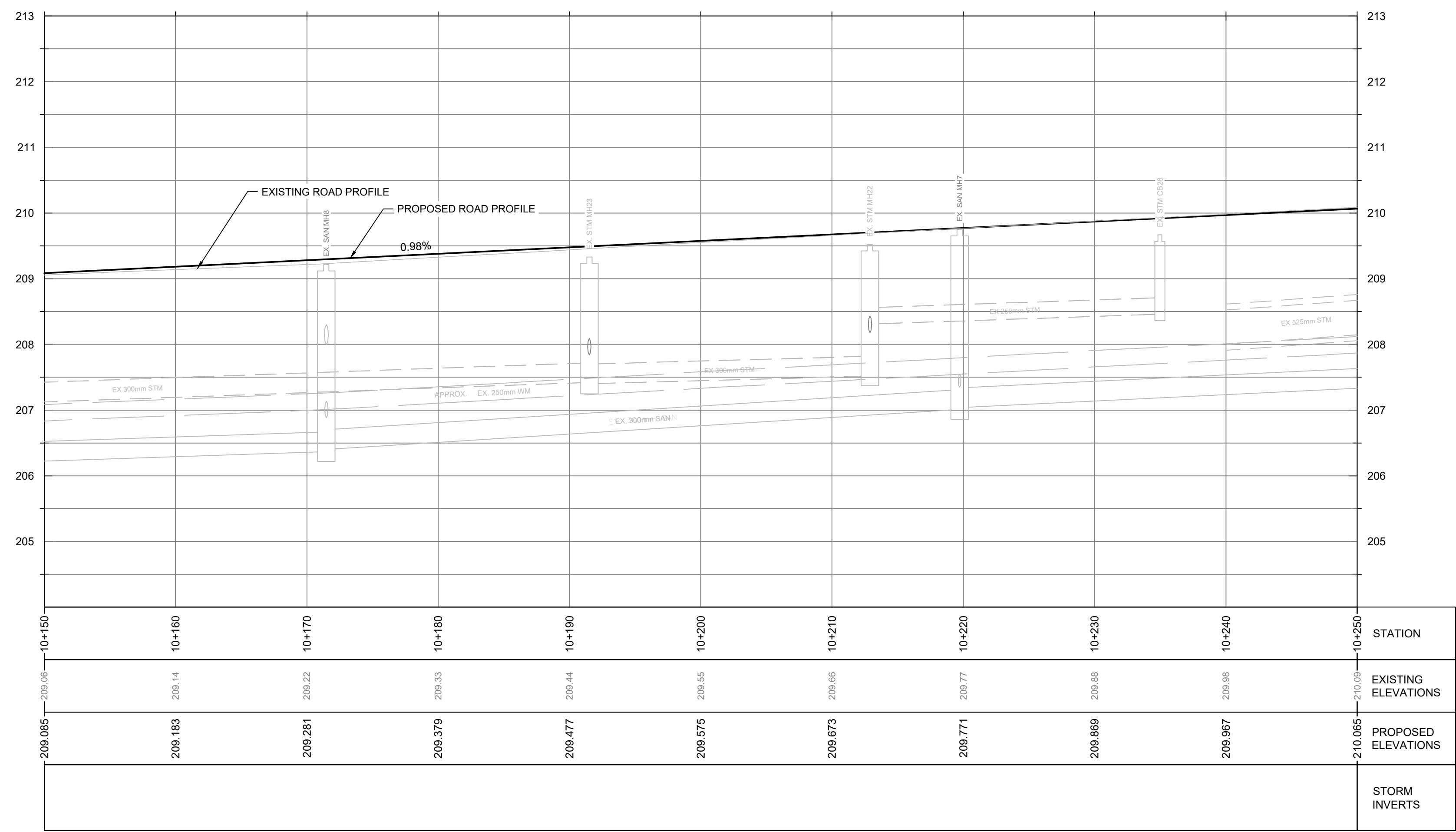


**TROUT LAKE ROAD RECONSTRUCTION**

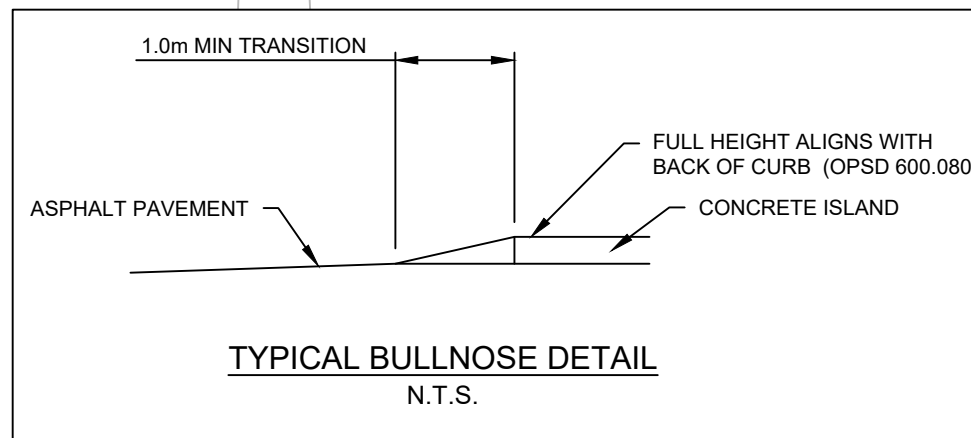
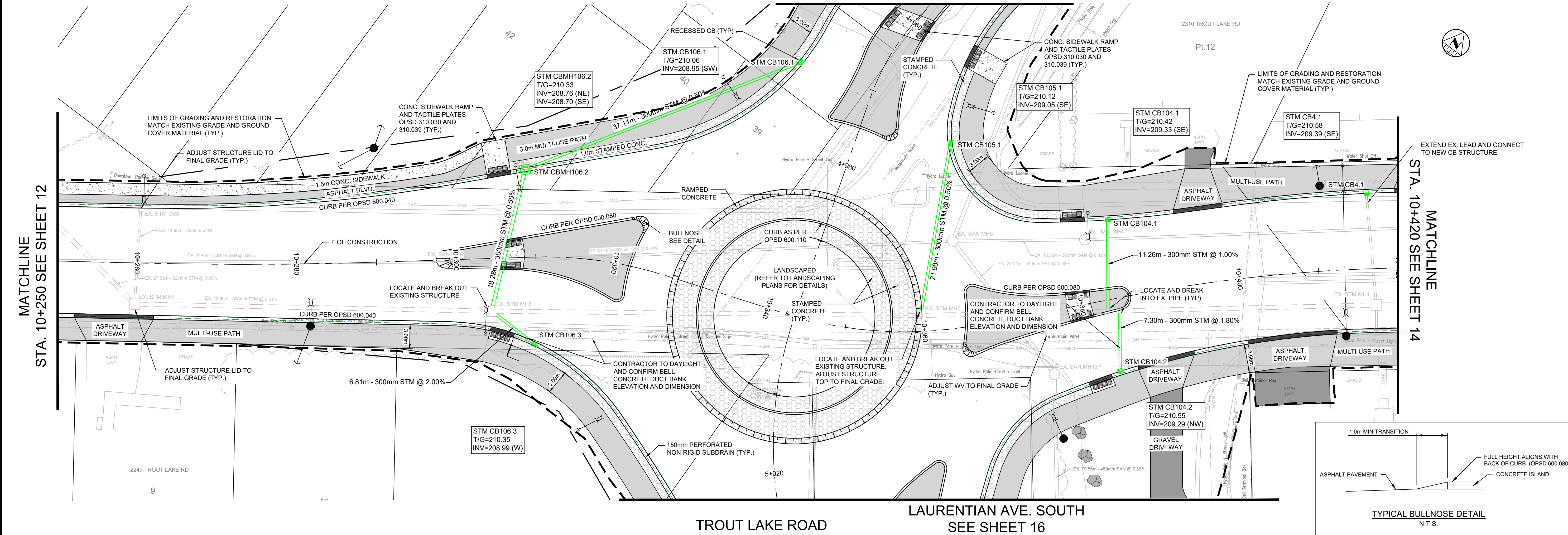
**NEW CONSTRUCTION**

**TROUT LAKE ROAD PLAN AND PROFILE STA 10+150 - 10+250**

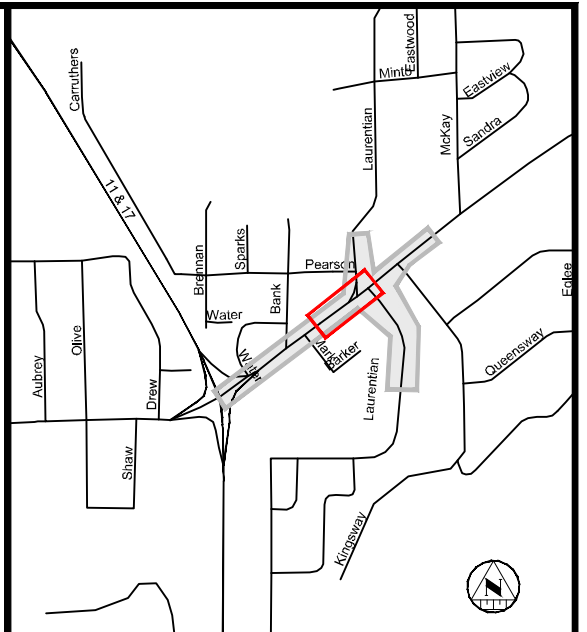
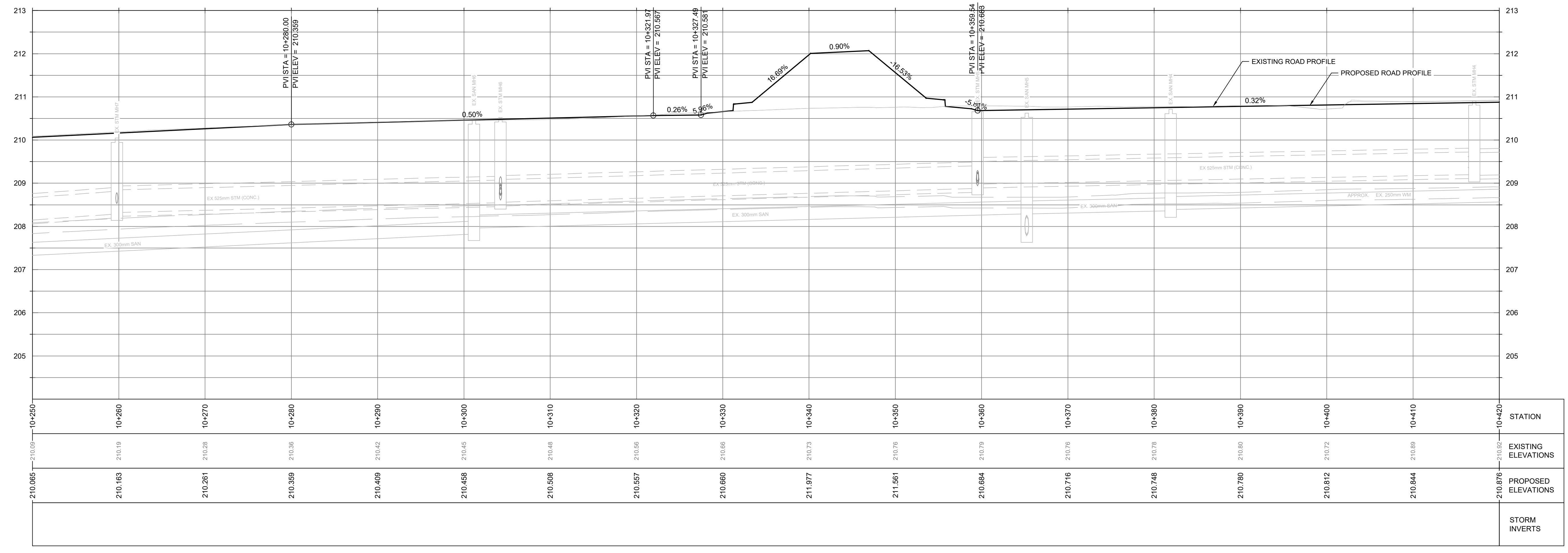
Designer: SF/AY	Checked by: MM
Date: 11/18/2025	Approved by: JR
Scale: 1:250 1:50	
Drawing Number: <b>C-2</b>	Drawing Set: <b>12 of 30</b>



LAURENTIAN AVE. SOUTH  
SEE SHEET 16



TROUT LAKE ROAD  
LAURENTIAN AVE. SOUTH  
SEE SHEET 16



KEY PLAN

NOTES

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REVISIONS

No.	Date	By	Description
1.	JAN 06 2026	JR	ISSUED FOR 60% REVIEW
2.	FEB 16 2026	JR	ISSUED FOR 90% REVIEW
3.	MAR 09 2026	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2026	JR	ISSUED FOR TENDER

Professional Stamp:

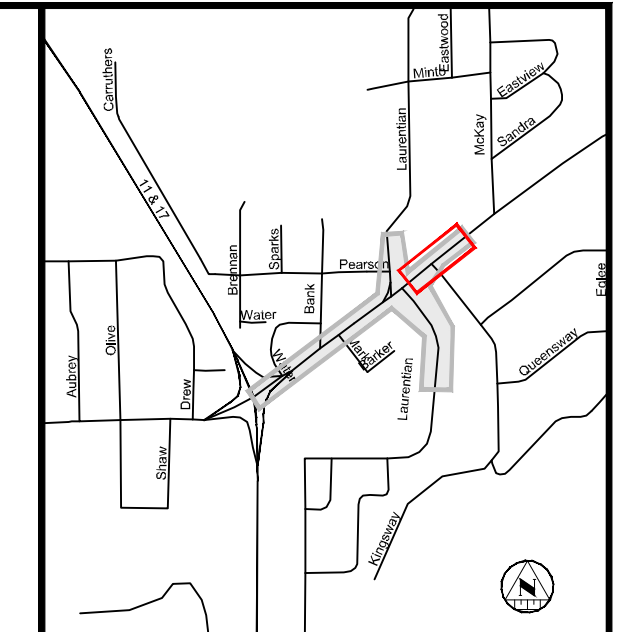
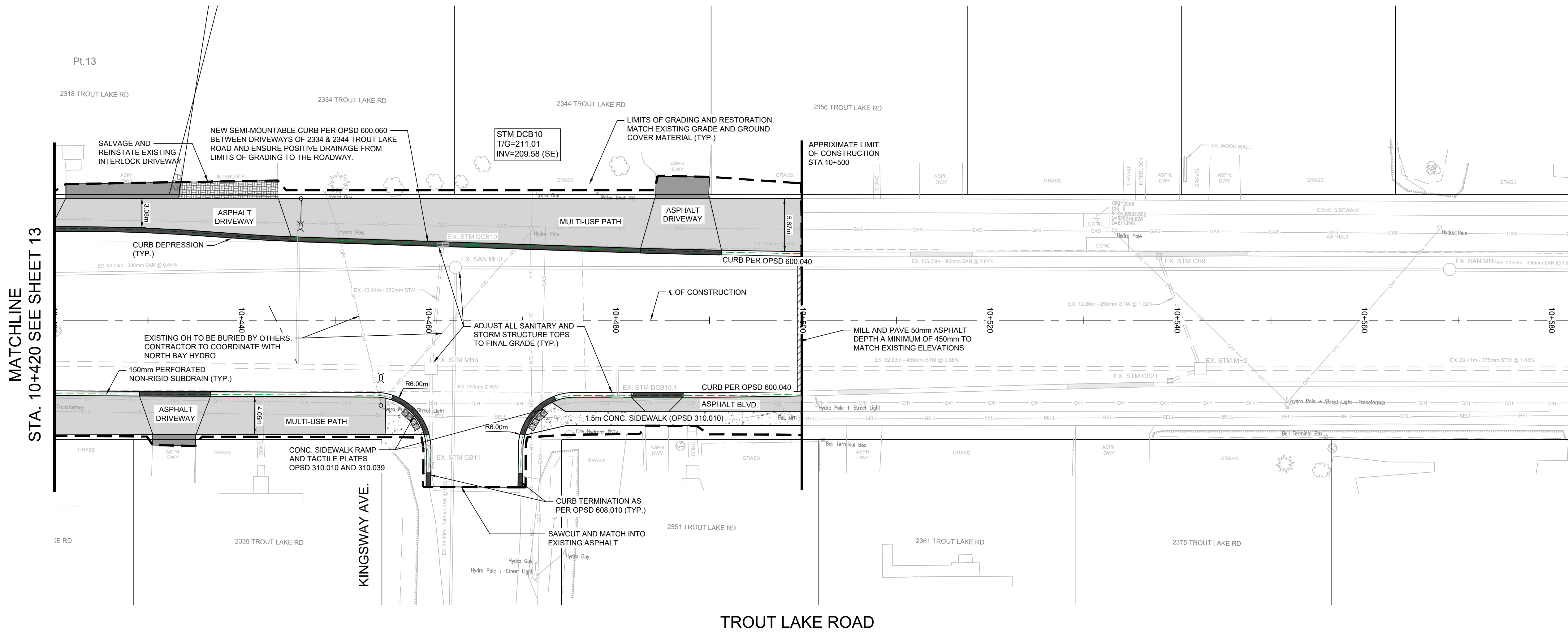


TROUT LAKE ROAD  
RECONSTRUCTION

NEW CONSTRUCTION

TROUT LAKE ROAD  
PLAN AND PROFILE  
STA 10+250 - 10+420

Designer: SF/AY	Checked by: MM
Date: 11/18/2025	Approved by: JR
Scale: 1:250 1:50	
Drawing Number: C-3	Drawing Set: 13 of 30



**KEY PLAN**

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**REVISIONS**

No.	Date	By	Description
1.	JAN 06 2026	JR	ISSUED FOR 60% REVIEW
2.	FEB 18 2026	JR	ISSUED FOR 90% REVIEW
3.	MAR 09 2026	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2026	JR	ISSUED FOR TENDER

Professional Stamp:

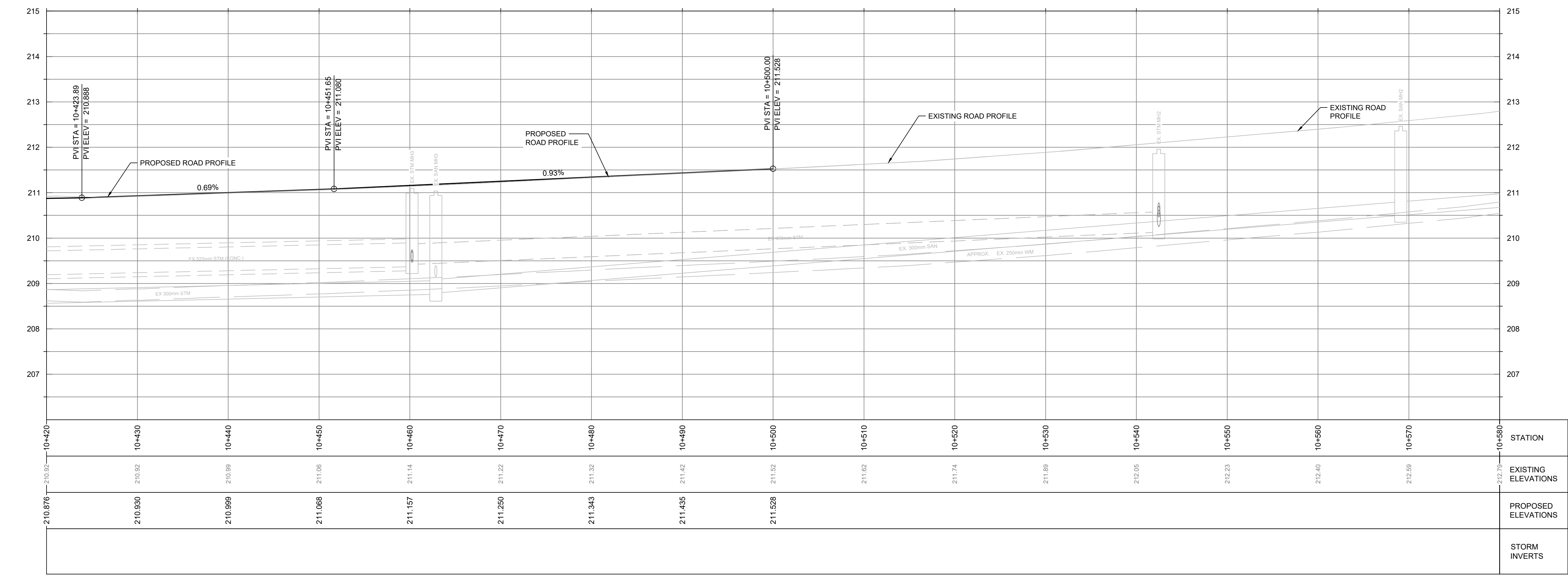


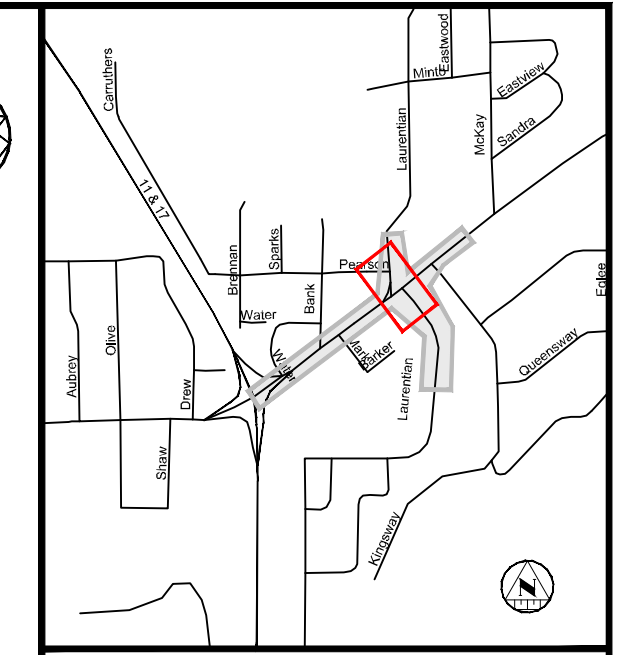
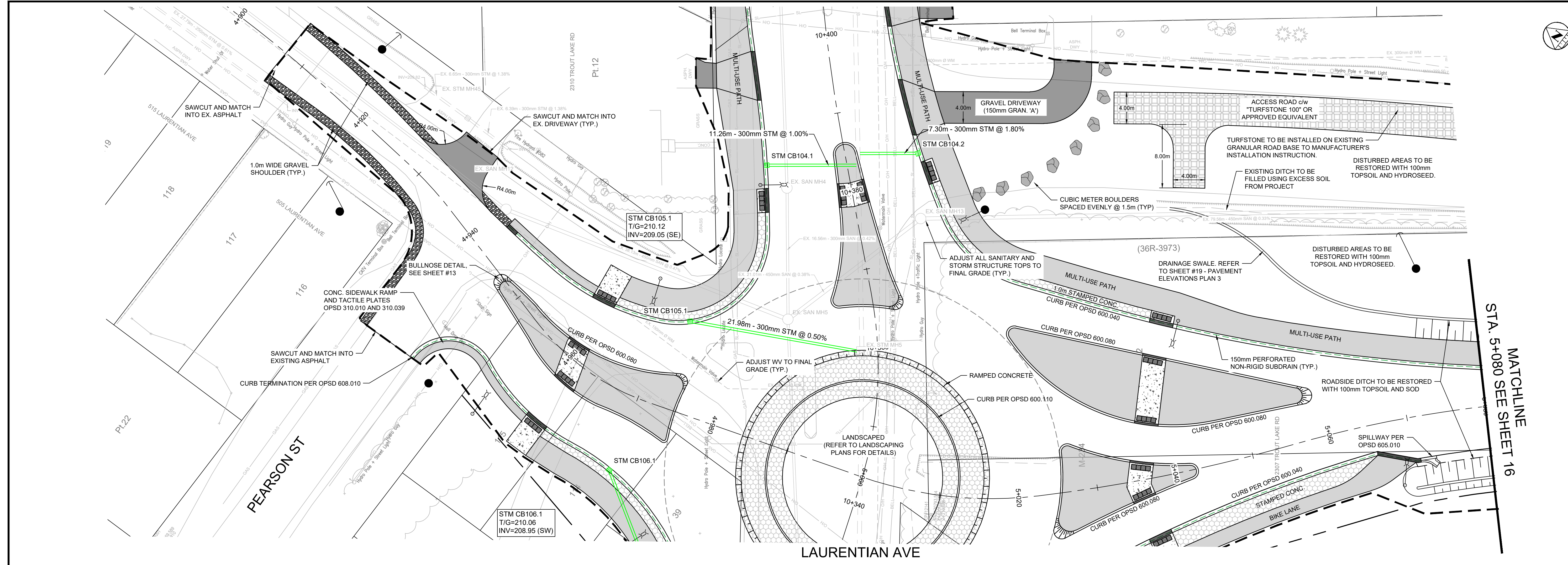
**TROUT LAKE ROAD RECONSTRUCTION**

**NEW CONSTRUCTION**

**TROUT LAKE ROAD PLAN AND PROFILE STA 10+420 - 10+580**

Designer: <b>SF/AY</b>	Checked by: <b>MM</b>
Date: <b>11/18/2025</b>	Approved by: <b>JR</b>
Scale: <b>1:250</b>	
Scale: <b>1:50</b>	
Drawing Number: <b>C-4</b>	Drawing Set: <b>14 of 30</b>



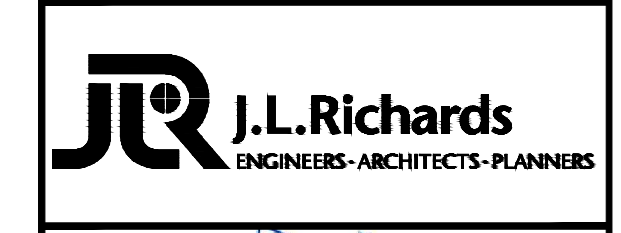


- NOTES**
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**REVISIONS**

No.	Date	By	Description
1.	JAN 06 2026	JR	ISSUED FOR 60% REVIEW
2.	FEB 18 2026	JR	ISSUED FOR 90% REVIEW
3.	MAR 09 2026	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2026	JR	ISSUED FOR TENDER

Professional Stamp:

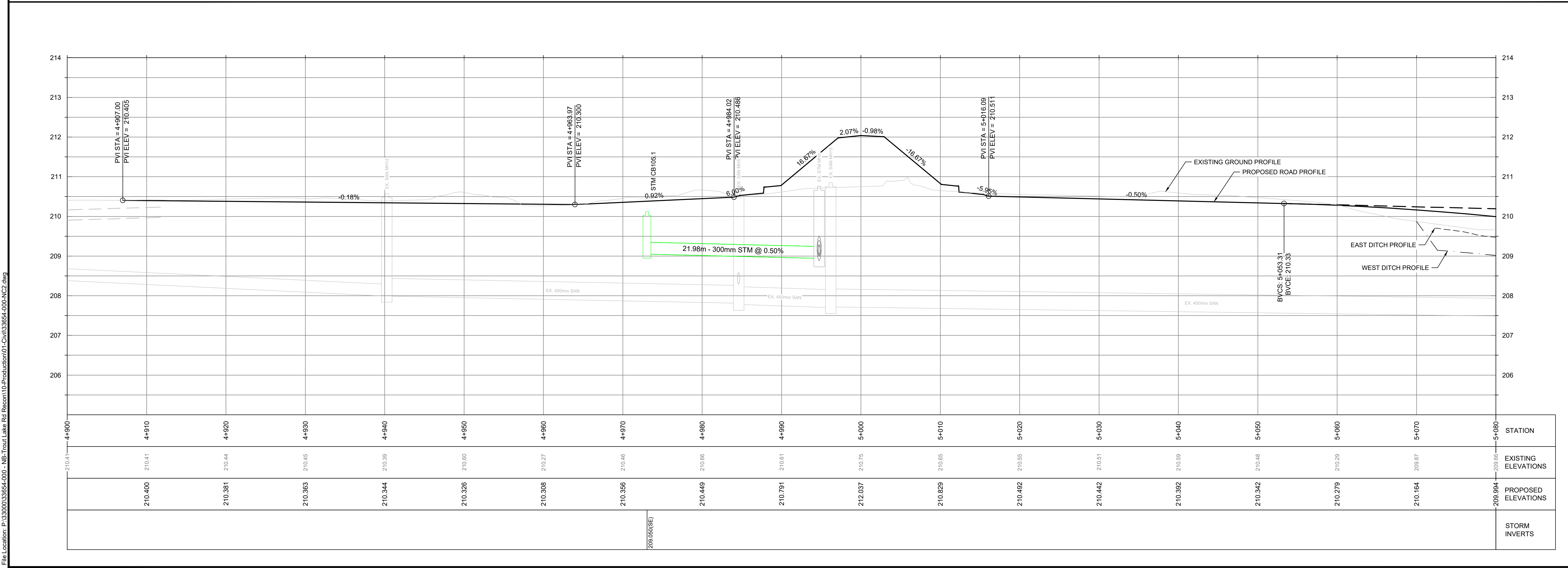


**TROUT LAKE ROAD RECONSTRUCTION**

**NEW CONSTRUCTION**

**TROUT LAKE ROAD PLAN AND PROFILE STA 4+900 - 5+080**

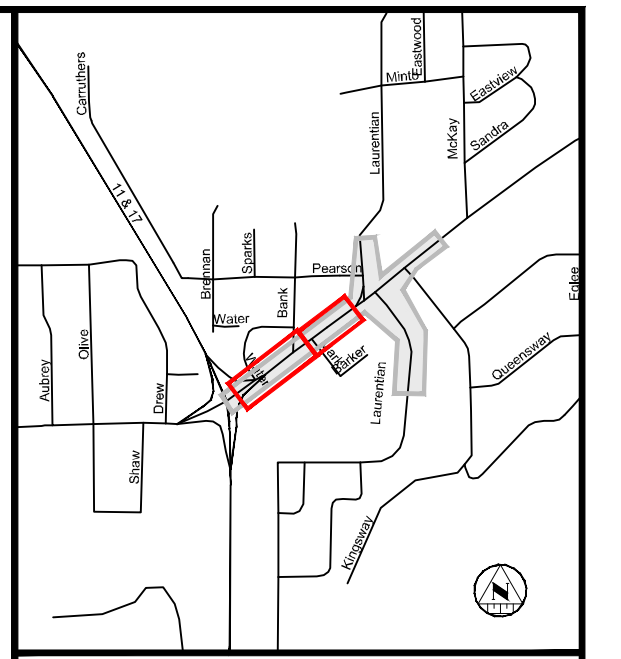
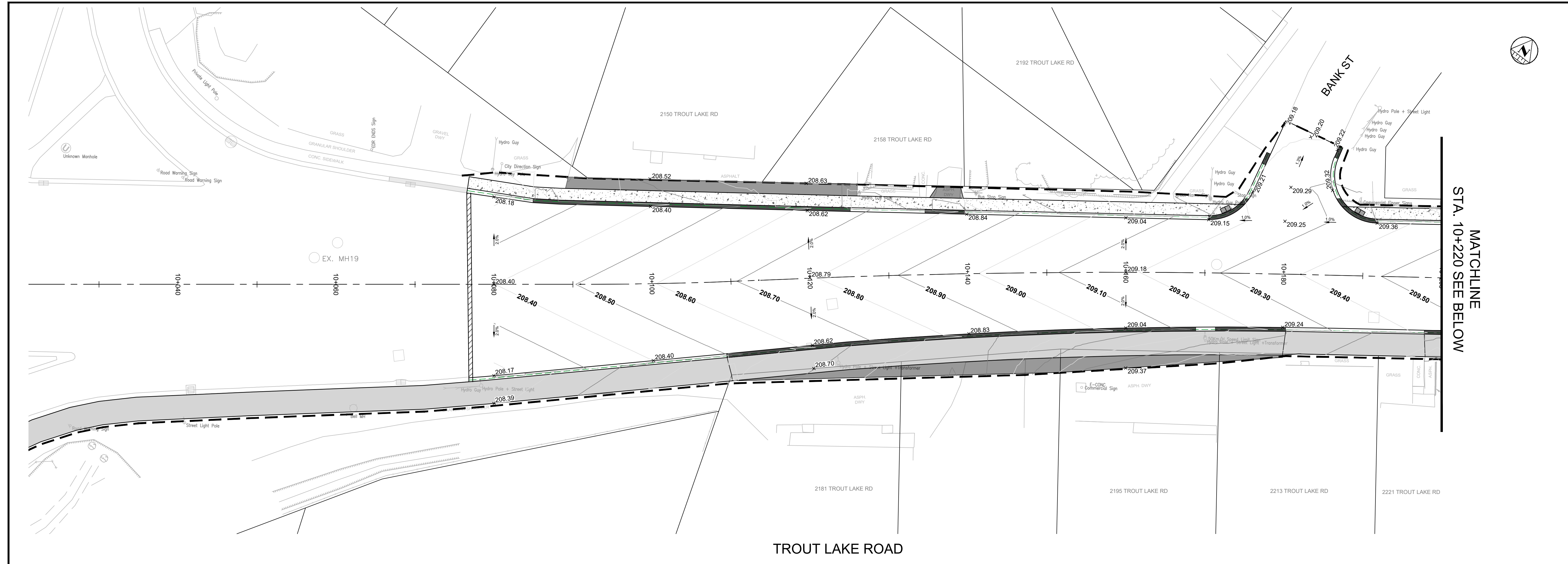
Designer: SF/AY	Checked by: MM
Date: 11/18/2025	Approved by: JR
Scale: 1:250 1:50	
Drawing Number: C-5	Drawing Set: 15 of 30



File Location: P:\33000\33654\000 - NB-Trout Lake Rd Reson\10-Production\01-Civil\33654-000-NC2.dwg

PLOT DATE: March 27, 2026 10:18:32 AM





**KEY PLAN**

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**REVISIONS**

No.	Date	By	Description
1.	JAN 06 2026	JR	ISSUED FOR 60% REVIEW
2.	FEB 18 2026	JR	ISSUED FOR 90% REVIEW
3.	MAR 04 2026	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2026	JR	ISSUED FOR TENDER

Professional Stamp:

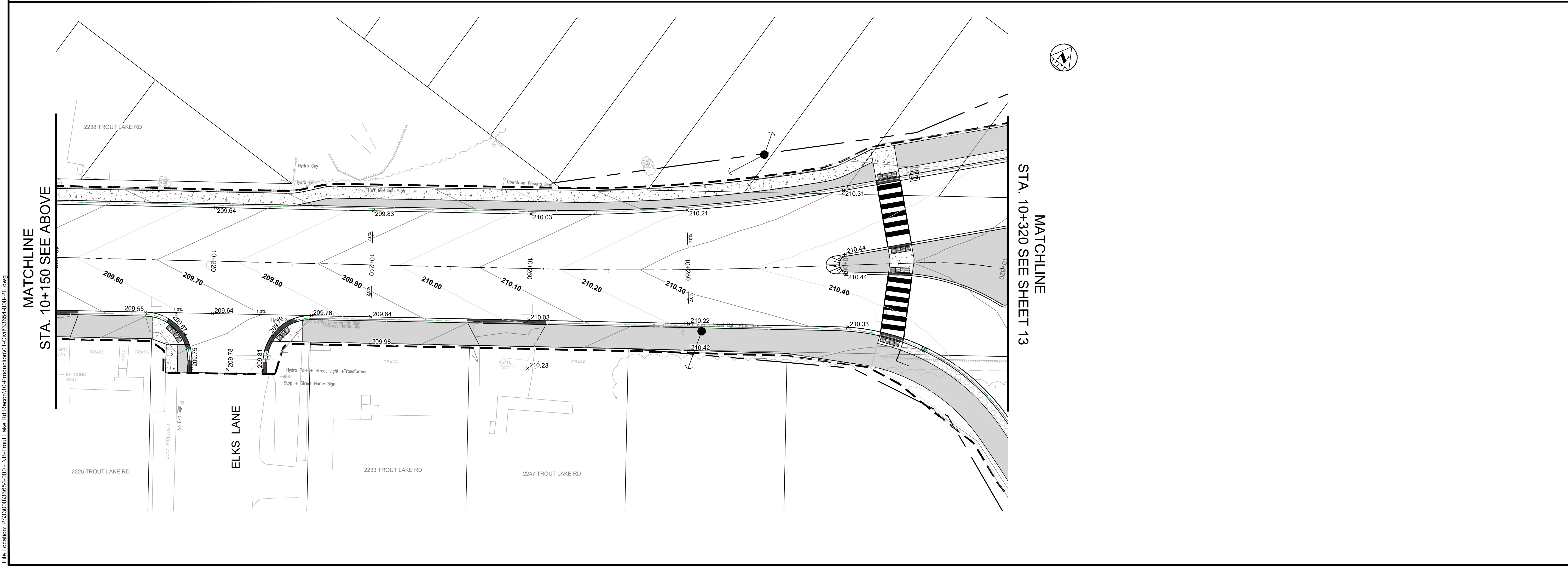


**TROUT LAKE ROAD RECONSTRUCTION**

**PAVEMENT ELEVATIONS**

**TROUT LAKE ROAD PAVEMENT ELEVATIONS PLAN 1**

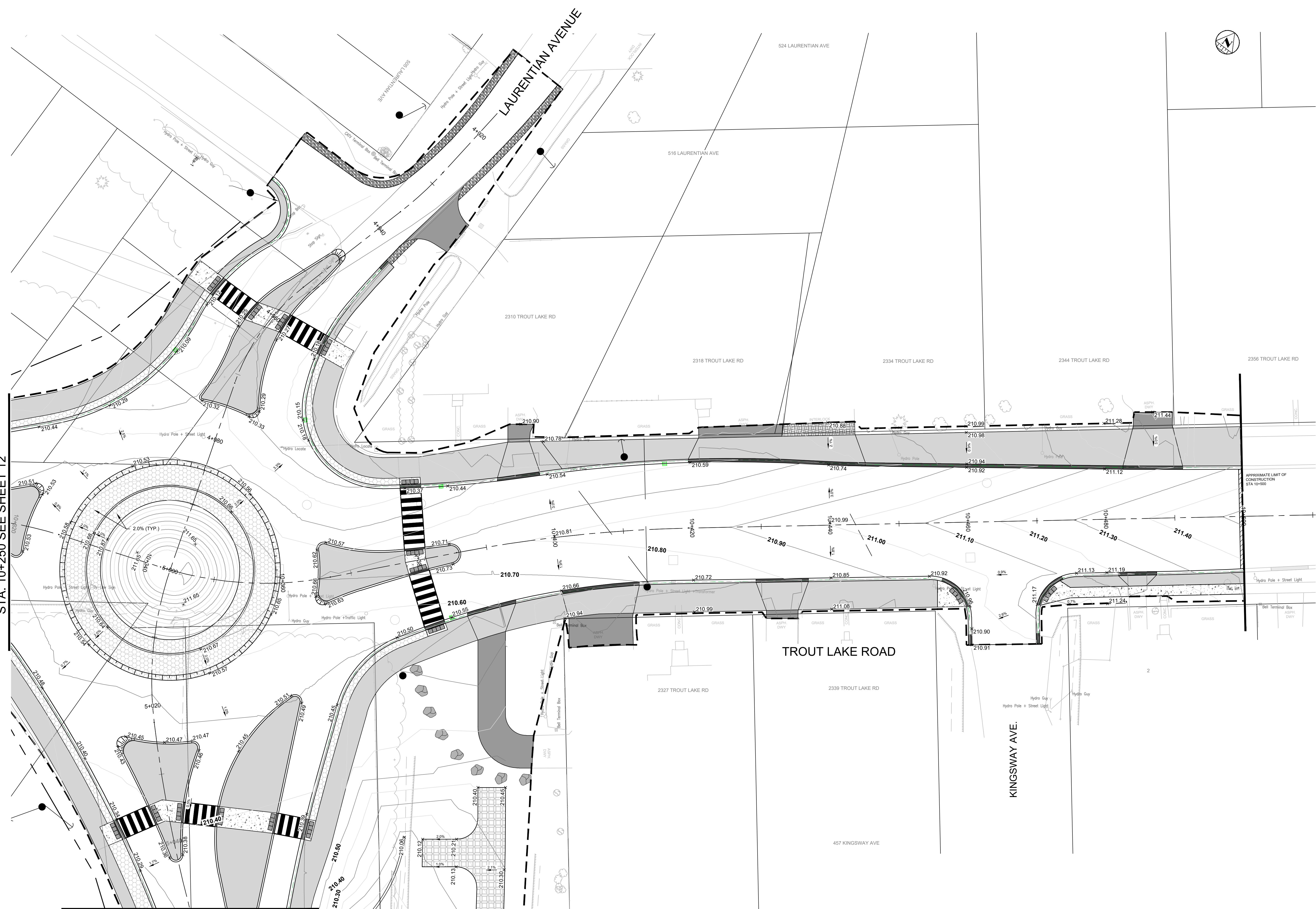
Designer: SF/AY	Checked by: MM
Date: 11/18/2025	Approved by: JR
Scale 1:250	
Drawing Number: PE1	Drawing Set: 17 of 30



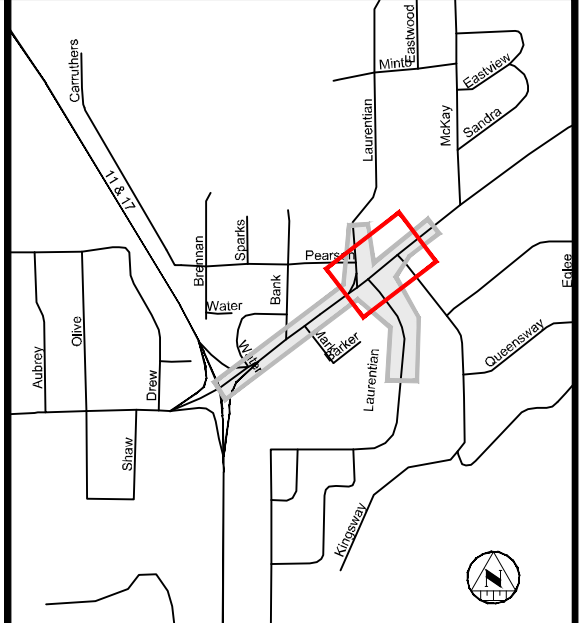
PLOT DATE: March 27, 2026 10:19:36 AM

File Location: P:\33000\339654-000 - NB-Trout Lake Rd Reson\10-Production\1-Civil\339654-000-PE.dwg

MATCHLINE  
STA. 10+250 SEE SHEET 12



LAURENTIAN AVE. SOUTH  
SEE SHEET 16



**KEY PLAN**

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**REVISIONS**

No.	Date	By	Description
1.	JAN 06 2026	JR	ISSUED FOR 60% REVIEW
2.	FEB 19 2026	JR	ISSUED FOR 90% REVIEW
3.	MAR 27 2026	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2026	JR	ISSUED FOR TENDER

Professional Stamp:

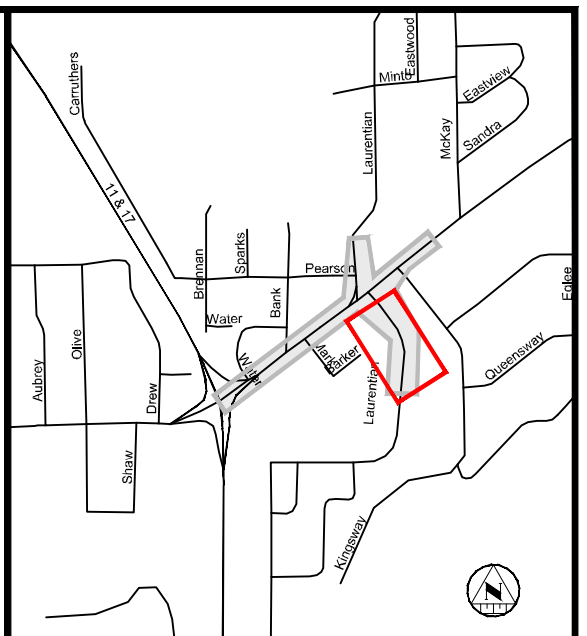
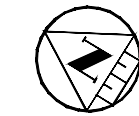
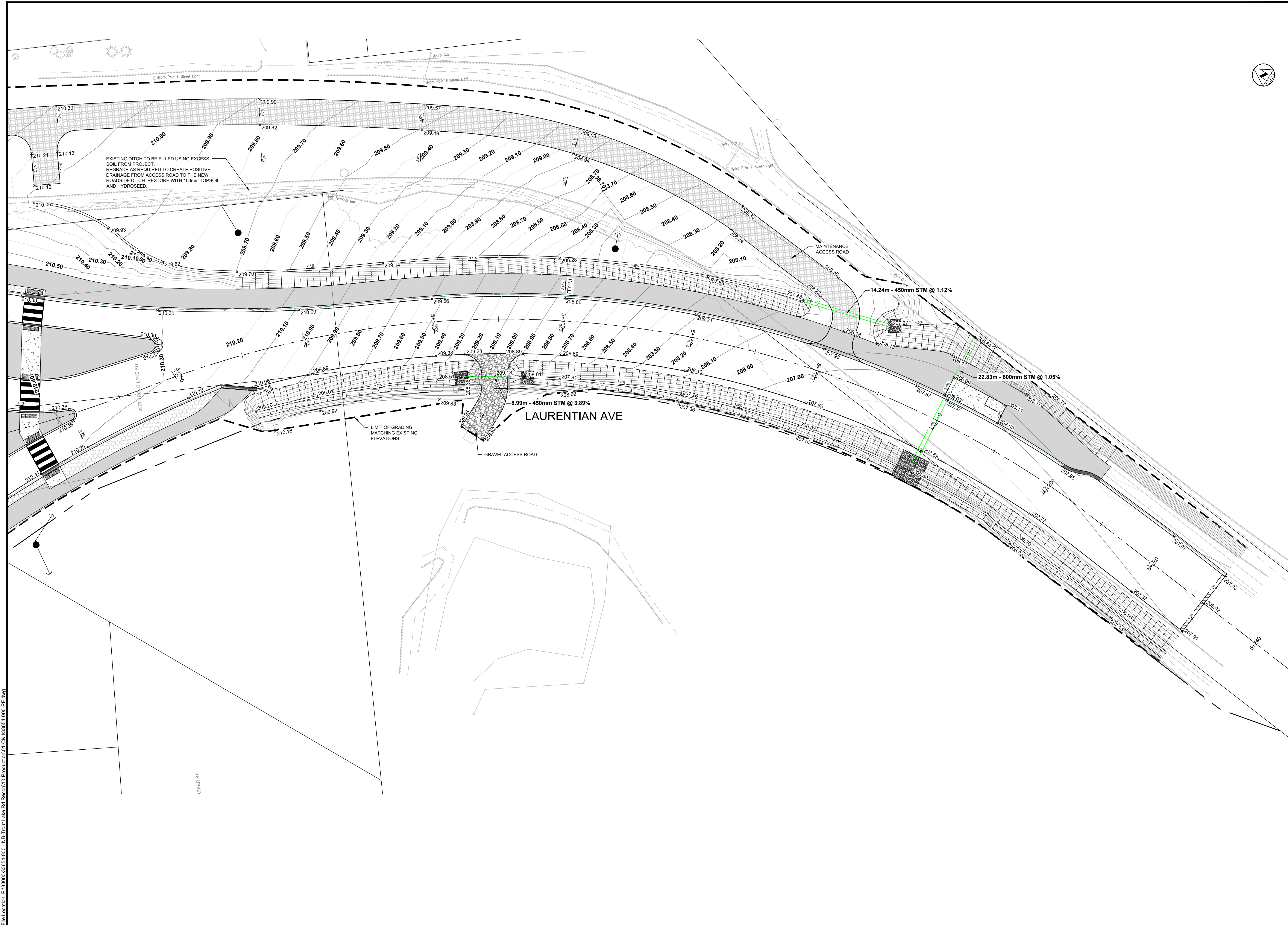


**TROUT LAKE ROAD RECONSTRUCTION**

**PAVEMENT ELEVATIONS**

**TROUT LAKE ROAD PAVEMENT ELEVATIONS PLAN 2**

Designer: SF/AY	Checked by: MM
Date: 11/18/2025	Approved by: JR
Scale 1:250	
Drawing Number: <b>PE2</b>	Drawing Set: <b>18 of 30</b>



**KEY PLAN**

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**REVISIONS**

No.	Date	By	Description
1.	JAN 06 2025	JR	ISSUED FOR 60% REVIEW
2.	FEB 10 2025	JR	ISSUED FOR 90% REVIEW
3.	MAR 20 2025	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2025	JR	ISSUED FOR TENDER

Professional Stamp:



**TROUT LAKE ROAD RECONSTRUCTION**

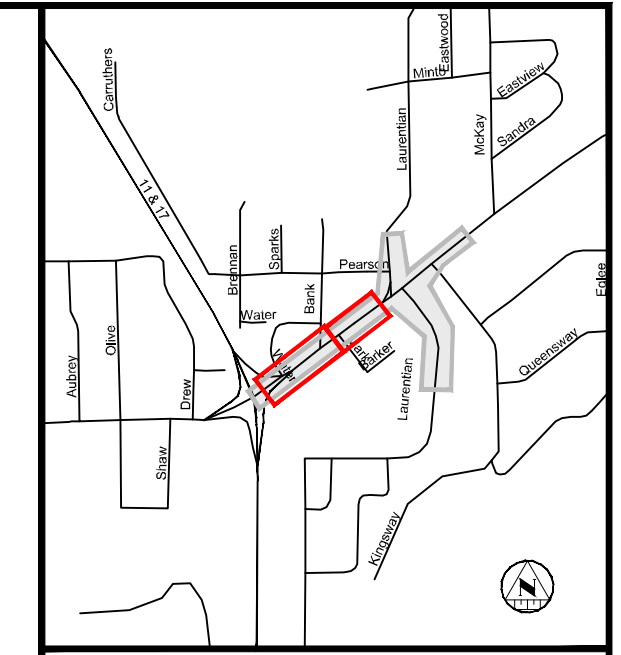
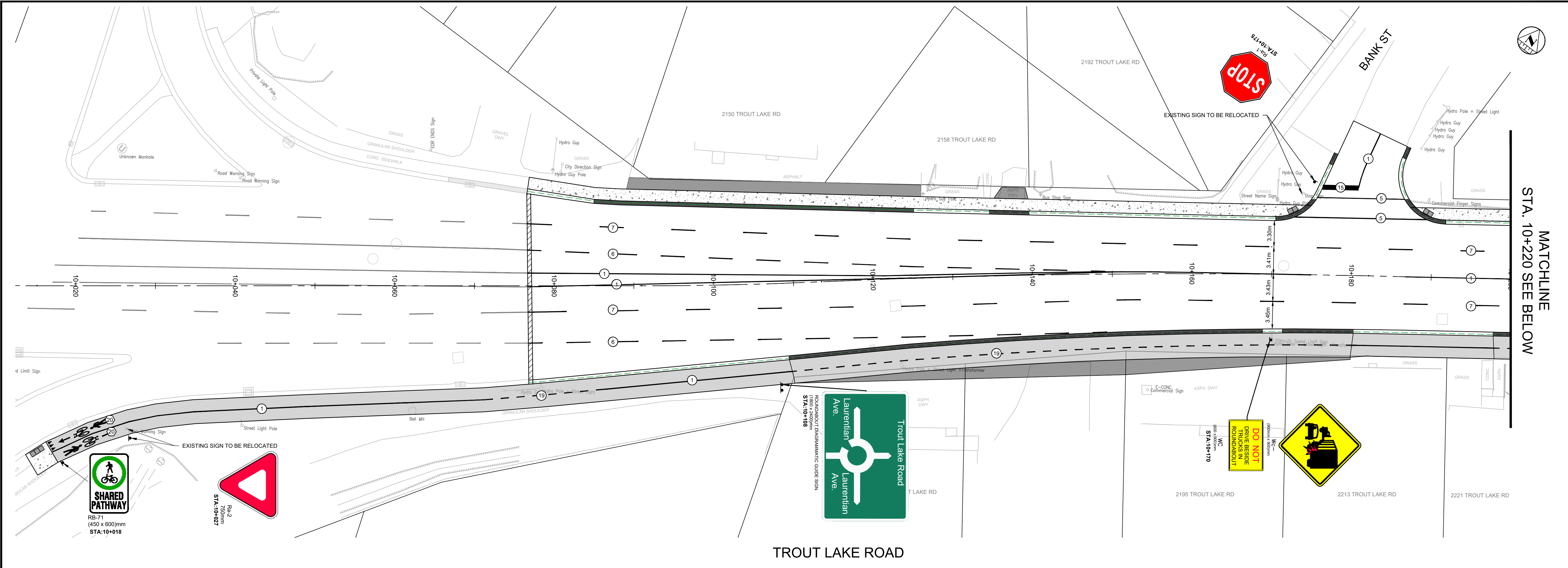
**PAVEMENT ELEVATIONS**

**TROUT LAKE ROAD PAVEMENT ELEVATIONS PLAN 3**

Designer: SF/AY	Checked by: MM
Date: 11/18/2025	Approved by: JR
Scale 1:250	
Drawing Number: <b>PE3</b>	Drawing Set: <b>19 of 30</b>

File Location: P:\33000\339654\000 - NB Trout Lake Rd Reson\10-Production\01 - Civil\339654\000-PE.dwg

PLOT DATE: March 27, 2025 10:26:10 AM

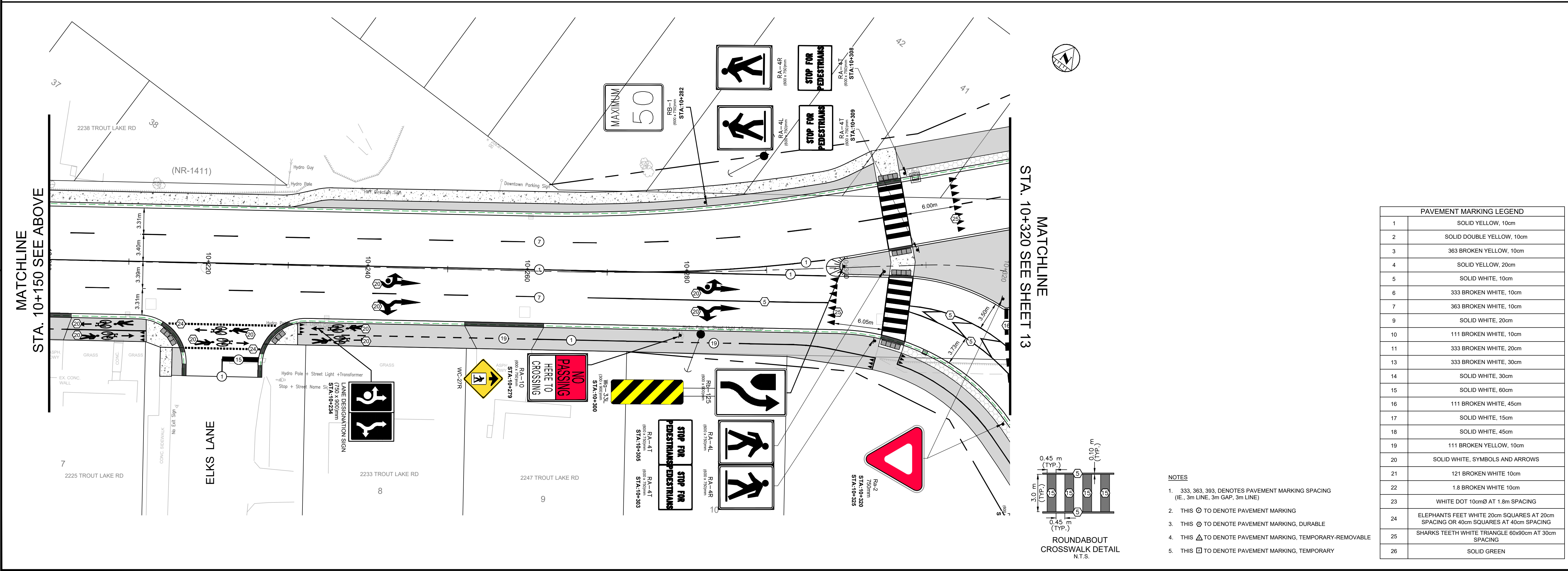


- NOTES**
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  2. REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.
  3. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH ONTARIO TRAFFIC MANUAL (OTM) BOOK 11. THE CONTRACTOR TO VERIFY EXISTING SIGNS SHOWN.
  4. THE CONTRACTOR SHALL VERIFY EXISTING SIGN INVENTORY PRIOR TO CONSTRUCTION AND REINSTATE THE SIGNS AT THEIR EXISTING LOCATIONS, UNLESS OTHERWISE NOTED.
  5. THE PROPOSED SIGN POSITION AND ORIENTATION SHALL BE AS PER CURRENT OTM BOOK 18 SIGN DESIGN PRINCIPLES.

**REVISIONS**

No.	Date	By	Description
1.	JAN 06 2025	JR	ISSUED FOR 60% REVIEW
2.	FEB 18 2025	JR	ISSUED FOR 90% REVIEW
3.	MAR 20 2025	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2025	JR	ISSUED FOR TENDER

Professional Stamp:



**PAVEMENT MARKING LEGEND**

1	SOLID YELLOW, 10cm
2	SOLID DOUBLE YELLOW, 10cm
3	363 BROKEN YELLOW, 10cm
4	SOLID YELLOW, 20cm
5	SOLID WHITE, 10cm
6	333 BROKEN WHITE, 10cm
7	363 BROKEN WHITE, 10cm
9	SOLID WHITE, 20cm
10	111 BROKEN WHITE, 10cm
11	333 BROKEN WHITE, 20cm
13	333 BROKEN WHITE, 30cm
14	SOLID WHITE, 30cm
15	SOLID WHITE, 60cm
16	111 BROKEN WHITE, 45cm
17	SOLID WHITE, 15cm
18	SOLID WHITE, 45cm
19	111 BROKEN YELLOW, 10cm
20	SOLID WHITE, SYMBOLS AND ARROWS
21	121 BROKEN WHITE 10cm
22	1.8 BROKEN WHITE, 10cm
23	WHITE DOT 10cm@ AT 1.8m SPACING
24	ELEPHANTS FEET WHITE 20cm SQUARES AT 20cm SPACING OR 40cm SQUARES AT 40cm SPACING
25	SHARKS TEETH WHITE TRIANGLE 60x90cm AT 30cm SPACING
26	SOLID GREEN

**TROUT LAKE ROAD RECONSTRUCTION**

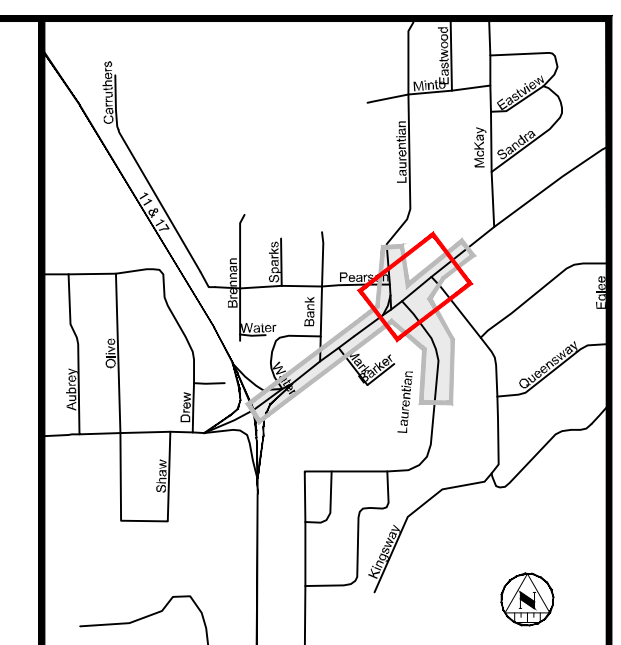
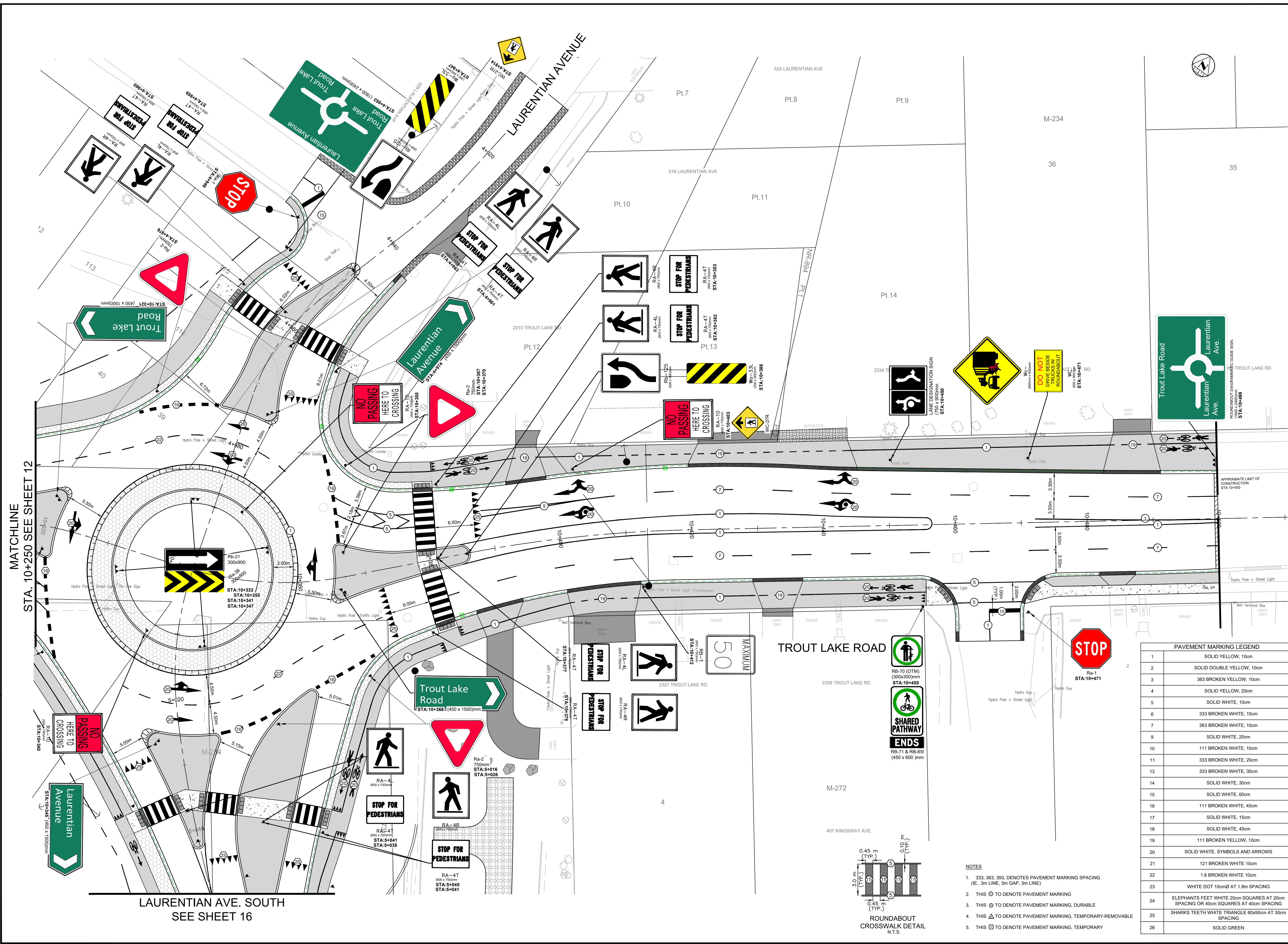
**PAVEMENT MARKINGS**

**TROUT LAKE ROAD PAVEMENT MARKINGS AND SIGNAGE PLAN 1**

Designer: SF/AY	Checked by: MM
Date: 11/18/2025	Approved by: JR
Scale: 1:250	
Drawing Number: PM&S1	Drawing Set: 20 of 30

File Location: P:\33000\339654-000 - NB-Trout Lake Rd Reson\10-Production\10-Civil\339654-000-PM&S.dwg

PLOT DATE: March 27, 2025 10:25:52 AM



- NOTES**
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  2. REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.
  3. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH ONTARIO TRAFFIC MANUAL (OTM) BOOK 11.
  4. THE CONTRACTOR TO VERIFY EXISTING SIGNS SHOWN.
  5. THE CONTRACTOR SHALL VERIFY EXISTING SIGN INVENTORY PRIOR TO CONSTRUCTION AND REINSTATE THE SIGNS AT THEIR EXISTING LOCATIONS, UNLESS OTHERWISE NOTED.
  6. THE PROPOSED SIGN POSITION AND HORIZONTAL AND VERTICAL ORIENTATION SHALL BE AS PER CURRENT OTM BOOK 18 SIGN DESIGN PRINCIPLES.

**REVISIONS**

No.	Date	By	Description
1.	JAN 08 2025	JR	ISSUED FOR 60% REVIEW
2.	FEB 18 2025	JR	ISSUED FOR 90% REVIEW
3.	MAR 20 2025	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2025	JR	ISSUED FOR TENDER

Professional Stamp:

**JR J.L.Richards**  
ENGINEERS-ARCHITECTS-PLANNERS



**TROUT LAKE ROAD RECONSTRUCTION**

**PAVEMENT MARKINGS**

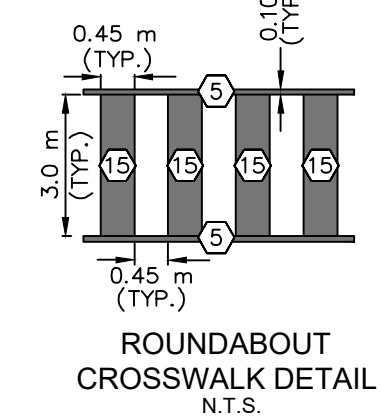
**TROUT LAKE ROAD PAVEMENT MARKINGS AND SIGNAGE PLAN 2**

Designator	Checked by:
SF/AY	MM
Date:	Approved by:
11/18/2025	JR
Scale	
1:250	
Drawing Number:	Drawing Set:
PM&S2	21 of 30

**PAVEMENT MARKING LEGEND**

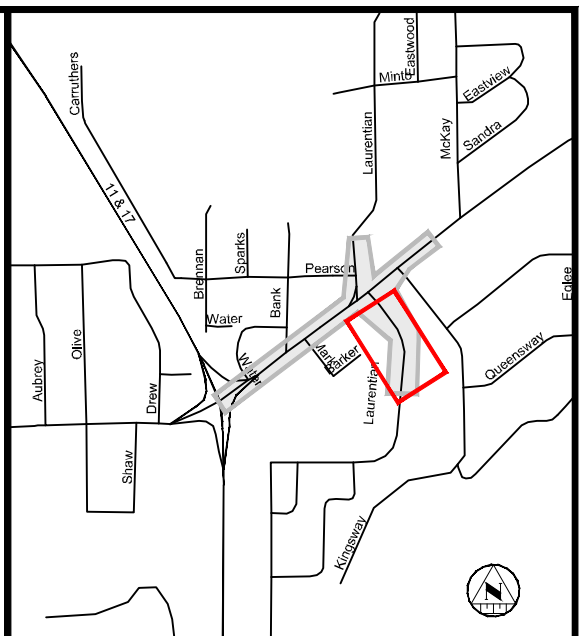
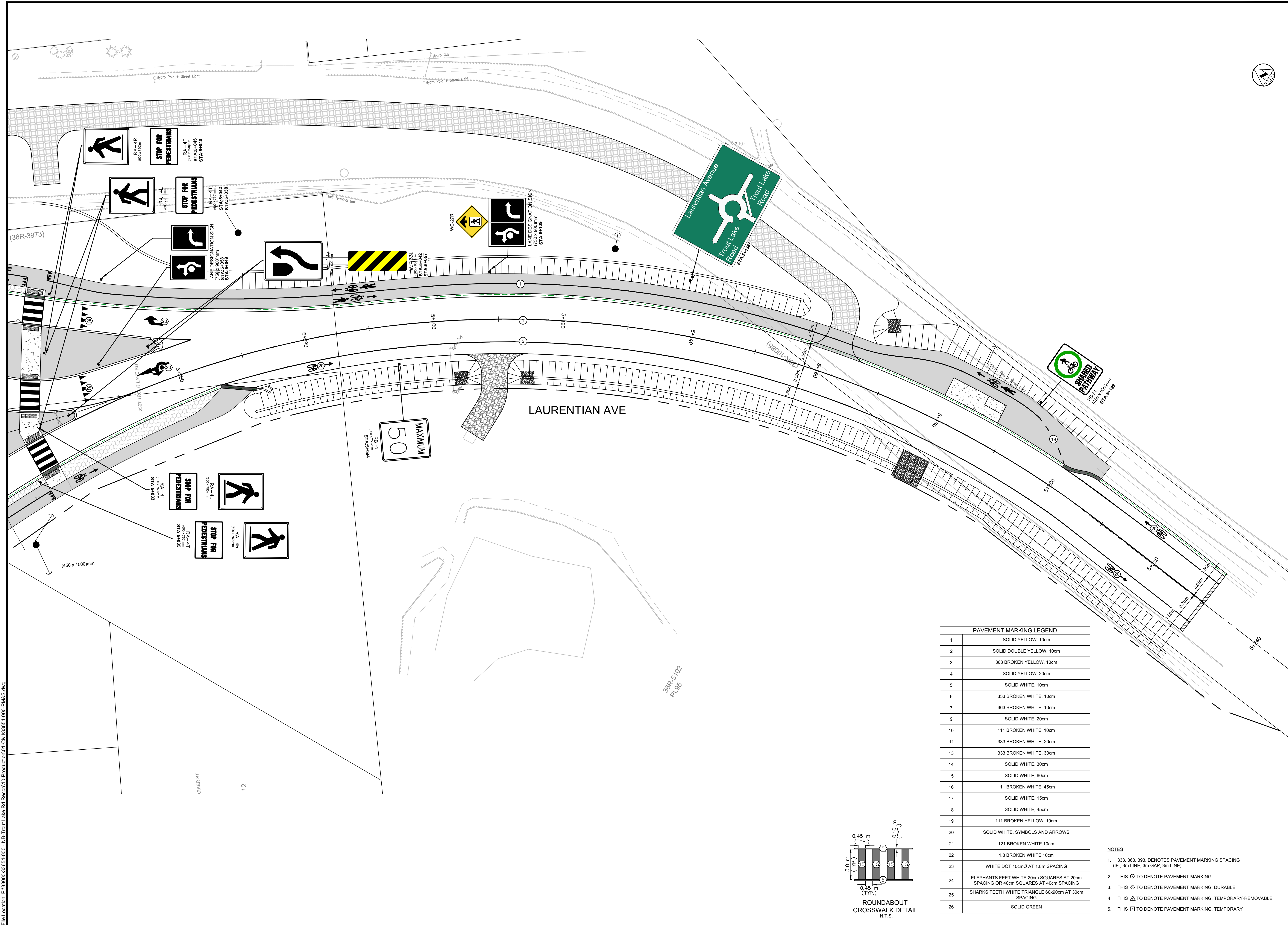
1	SOLID YELLOW, 10cm
2	SOLID DOUBLE YELLOW, 10cm
3	363 BROKEN YELLOW, 10cm
4	SOLID YELLOW, 20cm
5	SOLID WHITE, 10cm
6	333 BROKEN WHITE, 10cm
7	363 BROKEN WHITE, 10cm
9	SOLID WHITE, 20cm
10	111 BROKEN WHITE, 10cm
11	333 BROKEN WHITE, 20cm
13	333 BROKEN WHITE, 30cm
14	SOLID WHITE, 30cm
15	SOLID WHITE, 60cm
16	111 BROKEN WHITE, 45cm
17	SOLID WHITE, 15cm
18	SOLID WHITE, 45cm
19	111 BROKEN YELLOW, 10cm
20	SOLID WHITE, SYMBOLS AND ARROWS
21	121 BROKEN WHITE 10cm
22	1.8 BROKEN WHITE 10cm
23	WHITE DOT 10cm @ AT 1.8m SPACING
24	ELEPHANTS FEET WHITE 20cm SQUARES AT 20cm SPACING OR 40cm SQUARES AT 40cm SPACING
25	SHARKS TEETH WHITE TRIANGLE 60x90cm AT 30cm SPACING
26	SOLID GREEN

- NOTES**
1. 333, 363, 393, DENOTES PAVEMENT MARKING SPACING (IE., 3m LINE, 3m GAP, 3m LINE)
  2. THIS ○ TO DENOTE PAVEMENT MARKING
  3. THIS ⊙ TO DENOTE PAVEMENT MARKING, DURABLE
  4. THIS △ TO DENOTE PAVEMENT MARKING, TEMPORARY-REMOVABLE
  5. THIS □ TO DENOTE PAVEMENT MARKING, TEMPORARY



MATCHLINE  
STA. 10+250 SEE SHEET 12

LAURENTIAN AVE. SOUTH  
SEE SHEET 16



**KEY PLAN**

**NOTES**

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**REVISIONS**

No.	Date	By	Description
1.	JAN 06 2026	JR	ISSUED FOR 60% REVIEW
2.	FEB 18 2026	JR	ISSUED FOR 90% REVIEW
3.	MAR 20 2026	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2026	JR	ISSUED FOR TENDER

Professional Stamp:

**JR J.L.Richards**  
ENGINEERS - ARCHITECTS - PLANNERS

**NORTH BAY**  
ONTARIO - CANADA  
*Just North. Enough to be PERFECT*

**TROUT LAKE ROAD RECONSTRUCTION**

**PAVEMENT MARKINGS**

**TROUT LAKE ROAD PAVEMENT MARKINGS AND SIGNAGE PLAN 3**

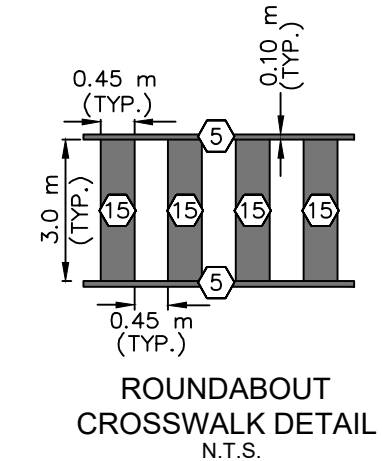
Designer: <b>SF/AY</b>	Checked by: <b>MM</b>
Date: <b>11/18/2025</b>	Approved by: <b>JR</b>
Scale <b>1:250</b>	
Drawing Number: <b>PM&amp;S3</b>	Drawing Set: <b>22 of 30</b>

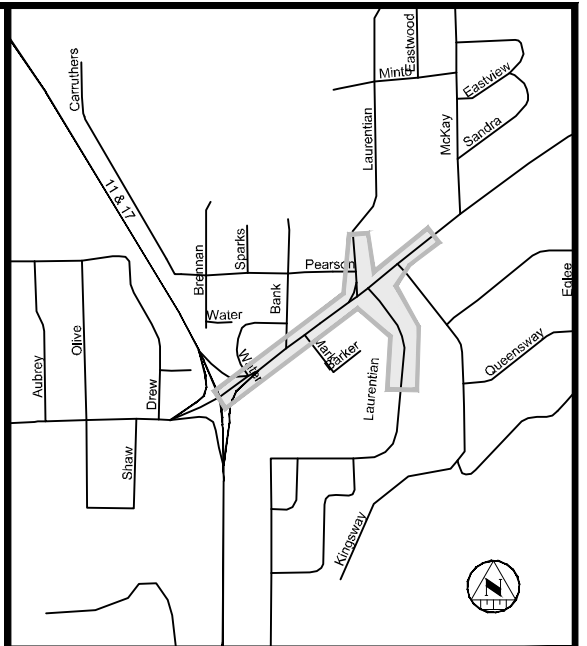
**PAVEMENT MARKING LEGEND**

1	SOLID YELLOW, 10cm
2	SOLID DOUBLE YELLOW, 10cm
3	363 BROKEN YELLOW, 10cm
4	SOLID YELLOW, 20cm
5	SOLID WHITE, 10cm
6	333 BROKEN WHITE, 10cm
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14	SOLID WHITE, 30cm
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19	111 BROKEN YELLOW, 10cm
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21	121 BROKEN WHITE 10cm
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24	ELEPHANTS FEET WHITE 20cm SQUARES AT 20cm SPACING OR 40cm SQUARES AT 40cm SPACING
25	SHARKS TEETH WHITE TRIANGLE 60x90cm AT 30cm SPACING
26	SOLID GREEN

**NOTES**

1. 333, 363, 393, DENOTES PAVEMENT MARKING SPACING (I.E., 3m LINE, 3m GAP, 3m LINE)
2. THIS ○ TO DENOTE PAVEMENT MARKING
3. THIS ◊ TO DENOTE PAVEMENT MARKING, DURABLE
4. THIS △ TO DENOTE PAVEMENT MARKING, TEMPORARY-REMOVABLE
5. THIS □ TO DENOTE PAVEMENT MARKING, TEMPORARY





**KEY PLAN**

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2. THE UNDERLYING PARCEL FABRIC REPRESENTS APPROXIMATE MEASUREMENTS ONLY AND SHOULD BE VERIFIED BY AN O.L.S.
3. REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.
4. CONTRACTOR IS RESPONSIBLE FOR MANAGING ALL SUITABLE EXCESS MATERIALS ON-SITE TO BE REUSED AS BACKFILL. THE EX. ROAD BASE MATERIALS EXCAVATED FROM TROUT LAKE ROAD IS TO BE USED FOR THE CONSTRUCTION OF THE ROUNDABOUT AND LAURENTIAN AVENUE. ALL EXCESS MATERIALS TO BE DELIVERED AND STOCKPILED AT THE CITY'S DUMP SITE OFF MORRIS STREET.

**REVISIONS**

No.	Date	By	Description
1.	JAN 06 2026	JR	ISSUED FOR 60% REVIEW
2.	FEB 10 2026	JR	ISSUED FOR 90% REVIEW
3.	MAR 20 2026	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2026	JR	ISSUED FOR TENDER

Professional Stamp:

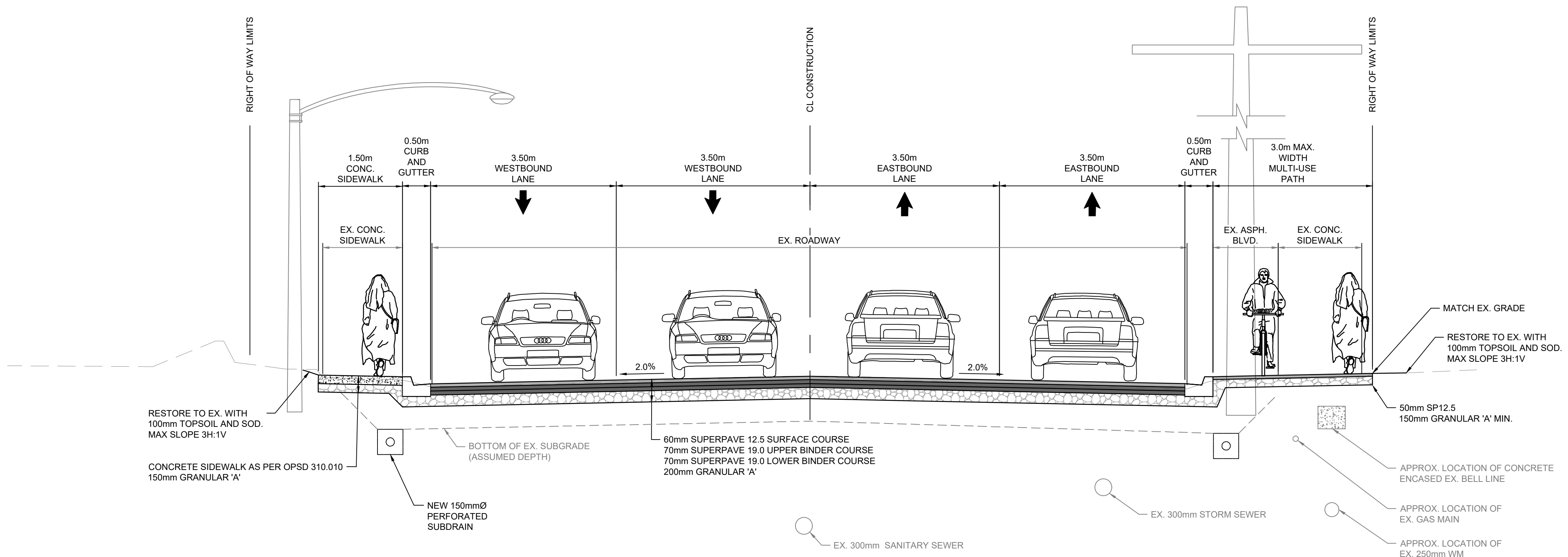


**TROUT LAKE ROAD RECONSTRUCTION**

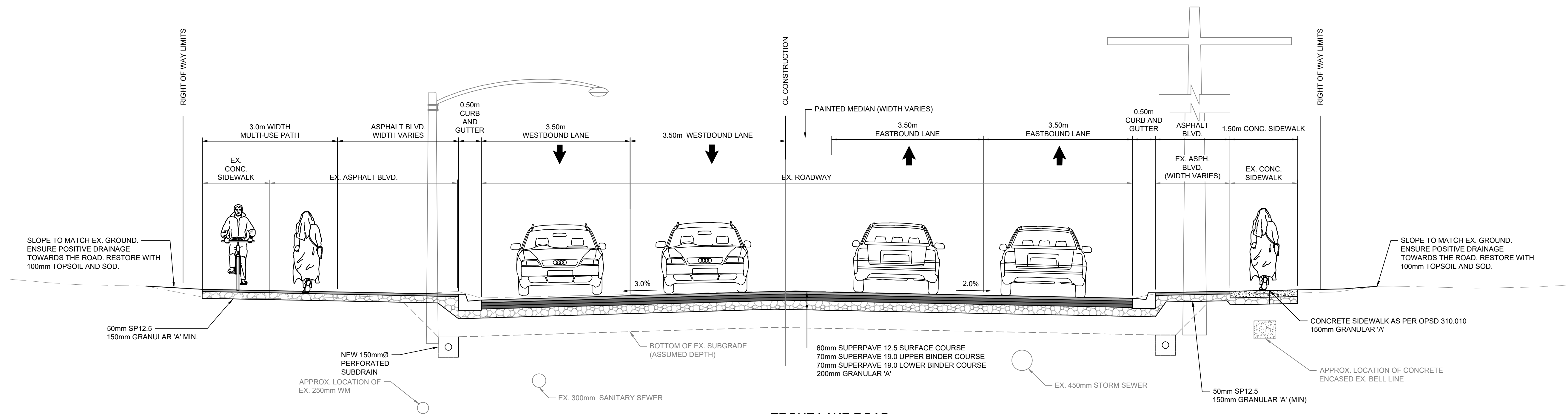
**TYPICAL SECTIONS**

**TYPICAL SECTIONS 1**

Designer: SF/AY	Checked by: MM
Date: 11/18/2025	Approved by: JR
Scale	
Drawing Number: D-1	Drawing Set: 23 of 30



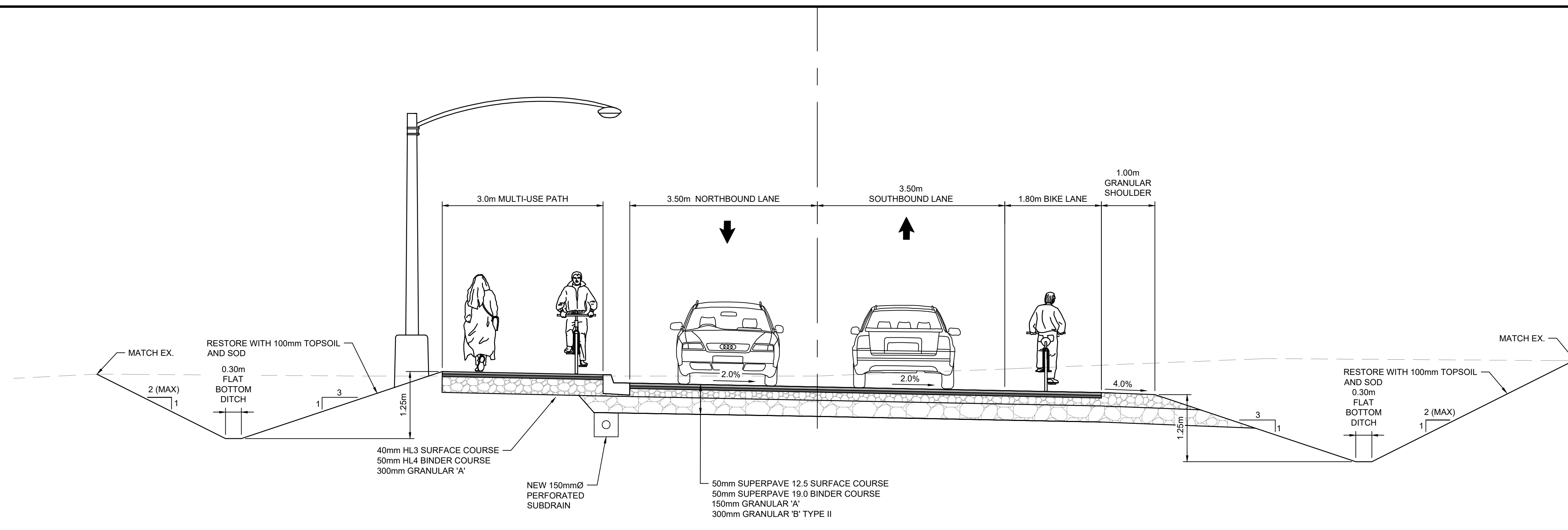
**1**  
TROUT LAKE ROAD  
TYP SECTION 1 (STA 10+200)  
SCALE: N.T.S.



**2**  
TROUT LAKE ROAD  
TYP SECTION 2 (STA 10+500)  
SCALE: N.T.S.

File Location: P:\33000\33954\000 - NB-Trout Lake Rd Reson\10-Production\01 - Civil\33954-000-TYP.dwg

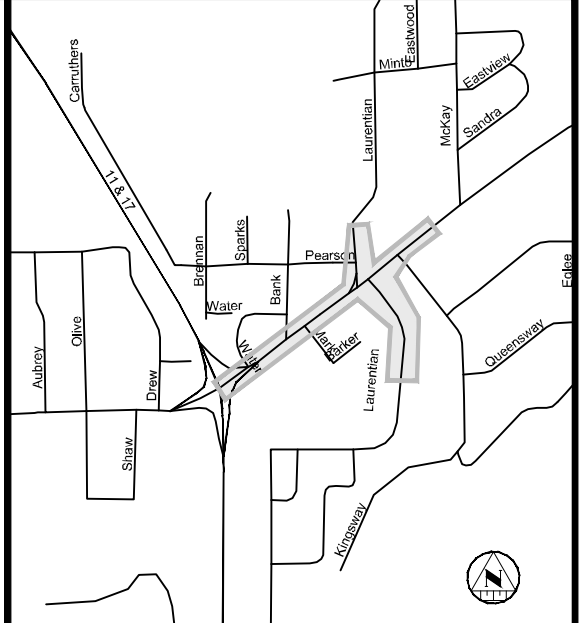
PLOT DATE: March 27, 2026 10:21:35 AM



Superelevation Curve	Station	Left Outside Lane	Right Outside Lane
Normal Crown	5+025.71m	-2.00%	-2.00%
Level Crown	5+037.71m	0.00%	-2.00%
Begin Full Super	5+049.71m	2.00%	-2.00%
End Full Super	5+207.80m	2.00%	-2.00%
Level Crown	5+219.80m	0.00%	-2.00%
Begin Normal Crown	5+231.80m	-2.00%	-2.00%

LAURENTIAN AVE  
TYP SECTION 3 (STA 5+100)  
SCALE: N.T.S.

3



KEY PLAN

NOTES

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REVISIONS

No.	Date	By	Description
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Professional Stamp:

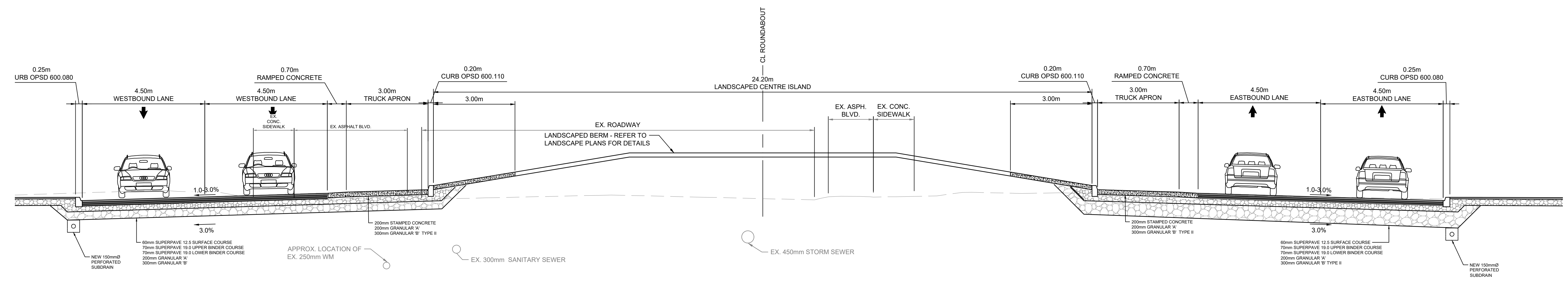


TROUT LAKE ROAD RECONSTRUCTION

TYPICAL SECTIONS

TYPICAL SECTIONS 2

Designer: SF/AY	Checked by: MM
Date: 11/18/2025	Approved by: JR
Scale	
Drawing Number: D-2	Drawing Set: 24 of 30



ROUNDABOUT  
TYP SECTION 4 (STA 10+340)  
SCALE: N.T.S.

4

**TYPICAL SECTION**

**DUMMY JOINT (OPTIONAL)**

**CONTRACTION JOINT (Note 4)**

**EXPANSION JOINT**

**JOINT LAYOUT**

**NOTES:**

- Sidewalk thickness at residential driveways and adjacent to curb shall be 150mm. At commercial and industrial driveways, the thickness shall be 200mm.
- Sidewalk width shall be wider when specified.
- This OPSD shall be read in conjunction with OPSD 310.030, 310.031, 310.033, and 310.039.
- Contraction Joint may be tooled or sawcut.

All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2019 Rev 3

**CONCRETE SIDEWALK**

OPSD 310.010

**DOUBLE RAMP WITHOUT BOULEVARD**

**DOUBLE RAMP WITH BOULEVARD**

**RAMP PLAN**

**RAMP ELEVATION**

**RAMP SECTION**

**NOTES:**

- Slope of ramp shall not exceed 8%.
- Cross slope of ramp shall not exceed 2% in either direction.
- Cross slope of flared side of ramp shall not exceed 8%.
- Dropped curb at ramp shall be modified to eliminate 30 mm step at gutter.
- Accessible pedestrian signal to have tactile arrow that aligns with direction of crosswalk.
- Minimum thickness of ramp is 200mm. Minimum thickness of sidewalk and flared sides adjacent to ramp is 150mm.
- Where only one crosswalk is present at an intersection, only one curb ramp is required.

All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2015 Rev 1

**CONCRETE SIDEWALK RAMPS AT SIGNALIZED INTERSECTIONS**

OPSD 310.030

**TRUNCATED DOMES PLAN**

**ELEVATION**

**DETAIL A**

**NOTES:**

- Vents shall be as specified by the manufacturer.
- Length of plate may be increased to suit the curb depression width.
- Material of plate shall be as specified in Contract Documents.
- Adjacent cast iron plates shall be permanently connected using a locking mechanism and any hardware shall be hot dipped galvanized.

All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2019 Rev 1

**CONCRETE SIDEWALK RAMPS TACTILE WALKING SURFACE COMPONENT**

OPSD 310.039

**FRAME PLAN**

**GRATE PLAN**

**SECTION A-A**

**SECTION B-B**

**SECTION C-C**

**SECTION D-D**

**SECTION E-E**

**NOTES:**

- This OPSD shall be read in conjunction with OPSD 610.010 and 610.020.
- All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 3

**CAST IRON, SQUARE FRAME WITH SQUARE FLAT GRATE FOR CATCH BASINS, HERRING BONE OPENINGS**

OPSD 400.020

**SUMP DETAIL**

**ALTERNATIVES**

**A PRECAST SLAB BASE**

**B CAST-IN-PLACE BASE**

**C PRECAST FLAT CAP**

**NOTES:**

- The sump is measured from the lowest invert.
- Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
- Precast concrete components shall be according to OPSD 701.030, 701.031, or 701.032.
- Structure exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.
- Pipe support according to OPSD 708.020.
- For benching and pipe opening details, see OPSD 701.021.
- For adjustment unit and frame installation, see OPSD 704.010.
- All dimensions are nominal.
- All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 5

**PRECAST CONCRETE MAINTENANCE HOLE 1200mm DIAMETER**

OPSD 701.010

**ALTERNATE STANDARD DIMENSIONS**

ALTERNATIVE	DIMENSION
A	1980
B	1830
C	1520
D	1380

**PLAN**

**SECTION A-A**

**SECTION B-B**

**NOTES:**

- Outlet hole size 525mm diameter maximum, location as required.
- 200mm diameter knockout to accommodate subdrain. Knockout shall be 60mm deep.
- Centre reinforcing in base slab and walls shall be 20mm.
- Granular backfill shall be placed to a minimum thickness of 300mm all around the catch basin.
- C Frame, grate, and adjustment units shall be installed according to OPSD 704.010.
- D Pipe support shall be according to OPSD 708.020.
- E All dimensions are nominal.
- F All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2019 Rev 4

**PRECAST CONCRETE CATCH BASIN 600x600mm**

OPSD 705.010

**SECTION A-A**

**NOTES:**

- When sidewalk is continuously adjacent, the dropped curb at entrances shall be reduced to 75mm.
- For slipforming procedure a 5% batter is acceptable.
- Treatment at entrances shall be according to OPSD 351.010.
- Outlet treatment shall be according to the OPSD 610 Series.
- The transition from one curb type to another shall be a minimum length of 3.0m, except in conjunction with guide rail where it shall be according to the OPSD 900 Series.
- All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2012 Rev 2

**CONCRETE BARRIER CURB**

OPSD 600.110

**TANGENT**

**SUPER-ELEVATED**

**LEGEND:**

S Rate of pavement super-elevation in percent, %.

**NOTES:**

- Flexible and composite pavement shall be placed 5mm above the adjacent edge of gutter.
- When sidewalk is continuously adjacent, the dropped curb at entrances shall be reduced to 75mm.
- For slipforming procedure a 5% batter is acceptable.
- For composite pavement the depth of concrete curb shall be adjusted to depth of concrete pavement.
- When the bars are specified, refer to OPSD 552.010 and 552.020 for details.

A Treatment at entrances shall be according to OPSD 351.010.  
 B Outlet treatment shall be according to the OPSD 610 Series.  
 C The transition from one curb type to another shall be a minimum length of 3.0m, except in conjunction with guide rail where it shall be according to the OPSD 900 Series.  
 D All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2012 Rev 2

**CONCRETE BARRIER CURB WITH STANDARD GUTTER**

OPSD 600.040

**CUT OR FILL**

**PLAN**

**SECTION A-A CUT**

**SECTION B-B CUT**

**SECTION A-A FILL**

**SECTION B-B FILL**

**TYPE A - WITHOUT GEOTEXTILE**

**TYPE B - WITH GEOTEXTILE**

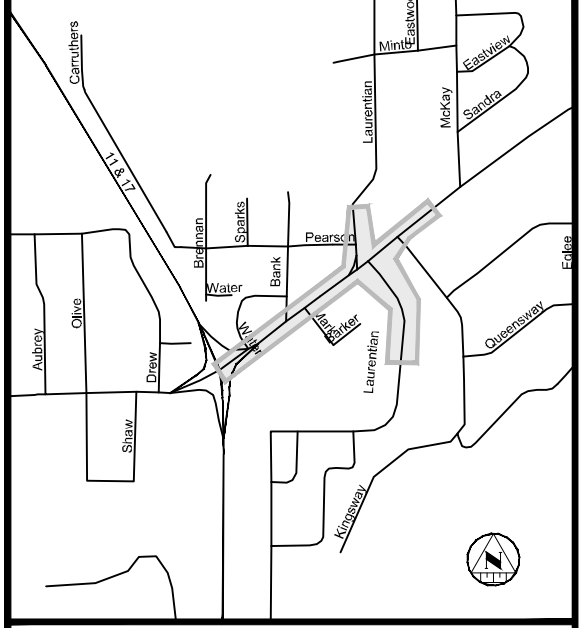
**NOTES:**

- The thickness of the rip-rap layer shall be at least 1.5 times the rip-rap mean diameter.
- All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 3

**GENERAL RIP-RAP LAYOUT FOR SEWER AND CULVERT OUTLETS**

OPSD 810.010



**NOTES**

**REVISIONS**

No.	Date	By	Description
1.	JAN 06 2006	JR	ISSUED FOR 60% REVIEW
2.	FEB 20 2026	JR	ISSUED FOR 90% REVIEW
3.	MAR 29 2026	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2026	JR	ISSUED FOR TENDER

**Professional Stamp:**

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2012 Rev 2

**CONCRETE BARRIER CURB WITH STANDARD GUTTER**

OPSD 600.040



**TROUT LAKE ROAD RECONSTRUCTION**

**STANDARD DETAILS**

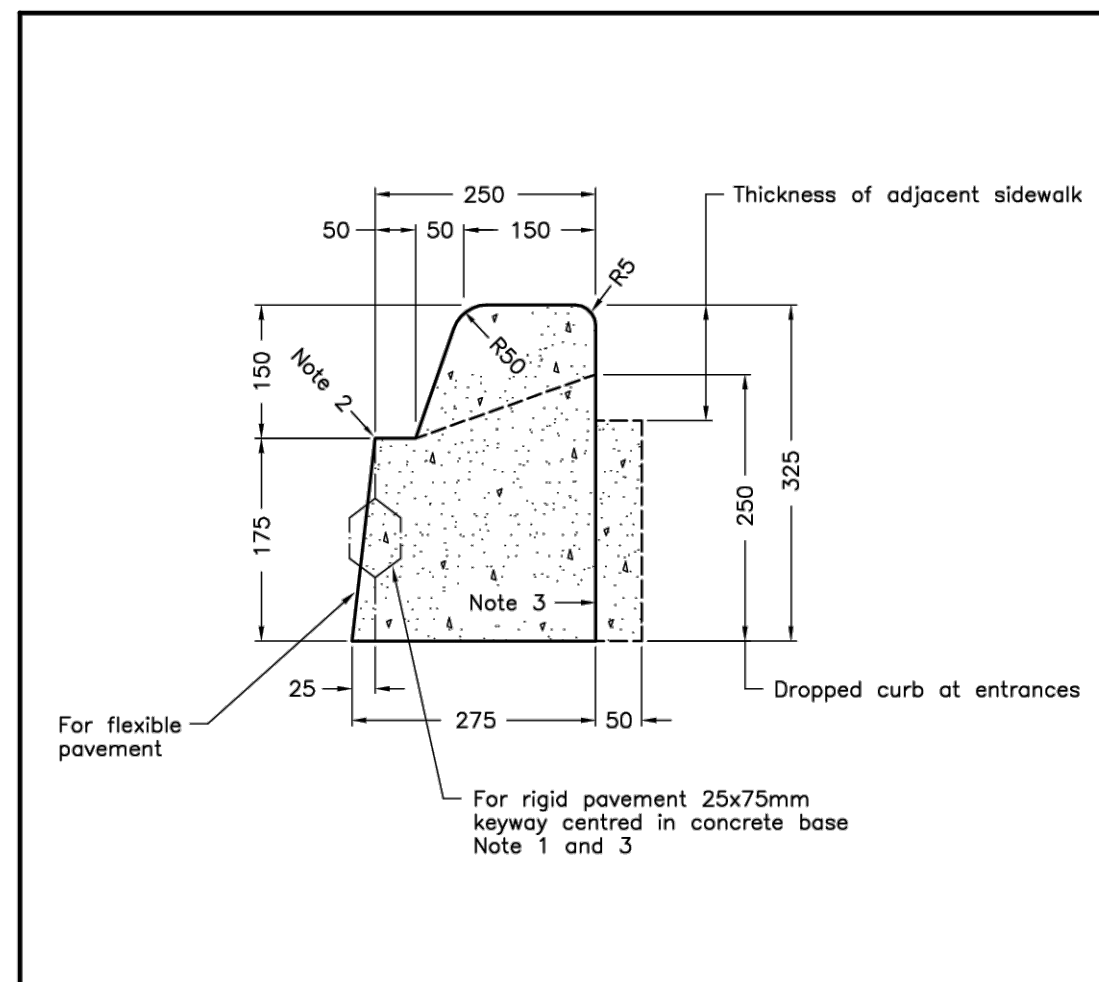
**STANDARD DETAILS PLAN 1**

Designer: SF/AY	Checked by: MM
Date: 11/18/2025	Approved by: JR
Scale	

Drawing Number: D-3	Drawing Set: 25 of 30
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File Location: P:\33000\33954\000 - NB Trout Lake Rd Reson\10-Production\10-Civil\33954-000-DETAILS.dwg

PLOT DATE: March 27, 2026 10:21:56 AM



NOTES:

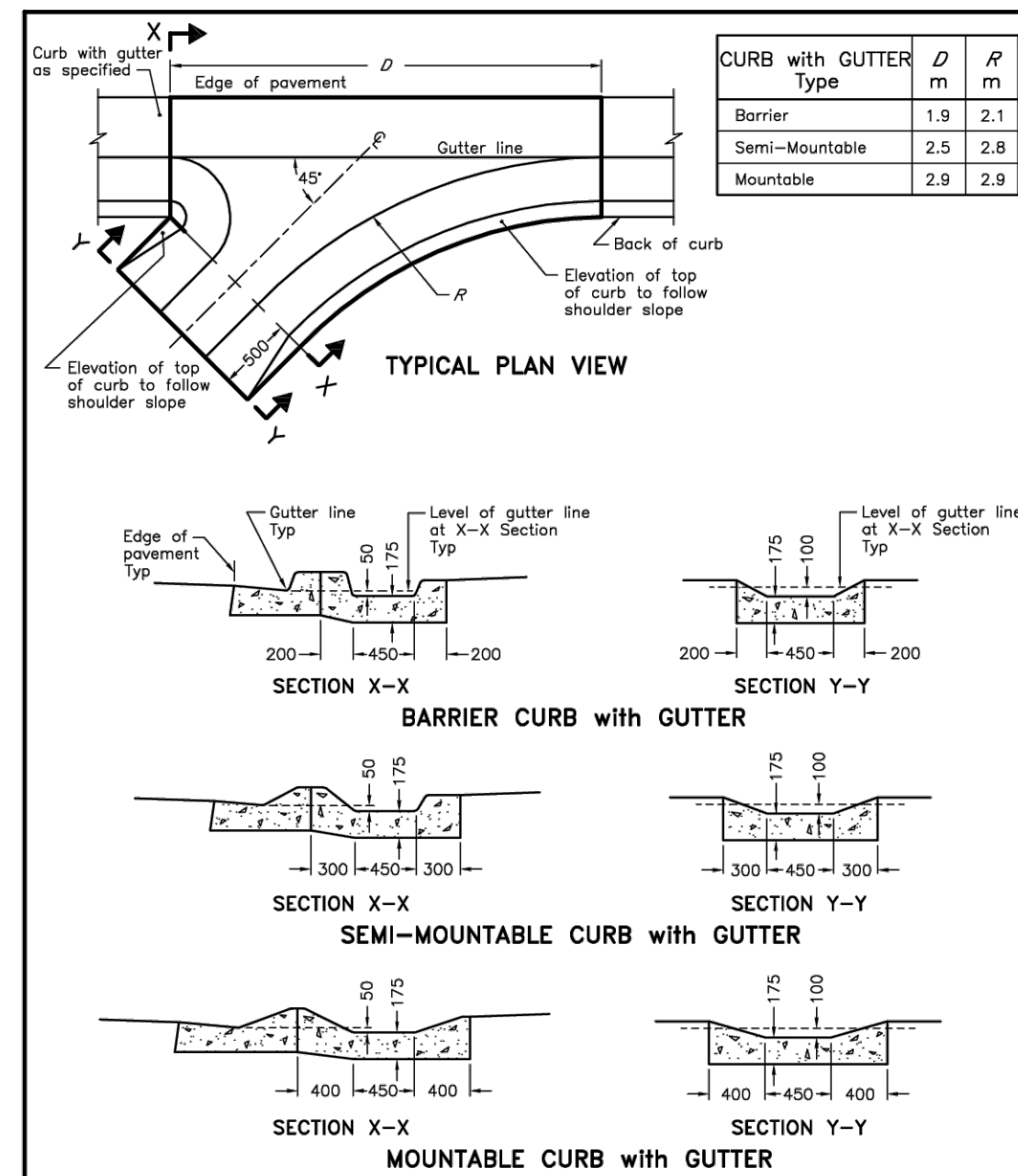
- When curb and gutter is adjacent to concrete pavement or base, this drawing shall be used in conjunction with OPSD 552.010 and 552.020.
- Flexible and composite pavement shall be placed 5mm above the adjacent edge of gutter.
- For slipforming procedure a 5% batter is acceptable.

A Treatment at entrances shall be according to OPSD 351.010.  
 B Outlet treatment shall be according to the OPSD 610 Series.  
 C The transition from one curb type to another shall be a minimum length of 3.0m, except in conjunction with guide rail where it shall be according to the OPSD 800 Series.  
 D All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2012 Rev 2

**CONCRETE BARRIER CURB WITH NARROW GUTTER**

OPSD 600.080



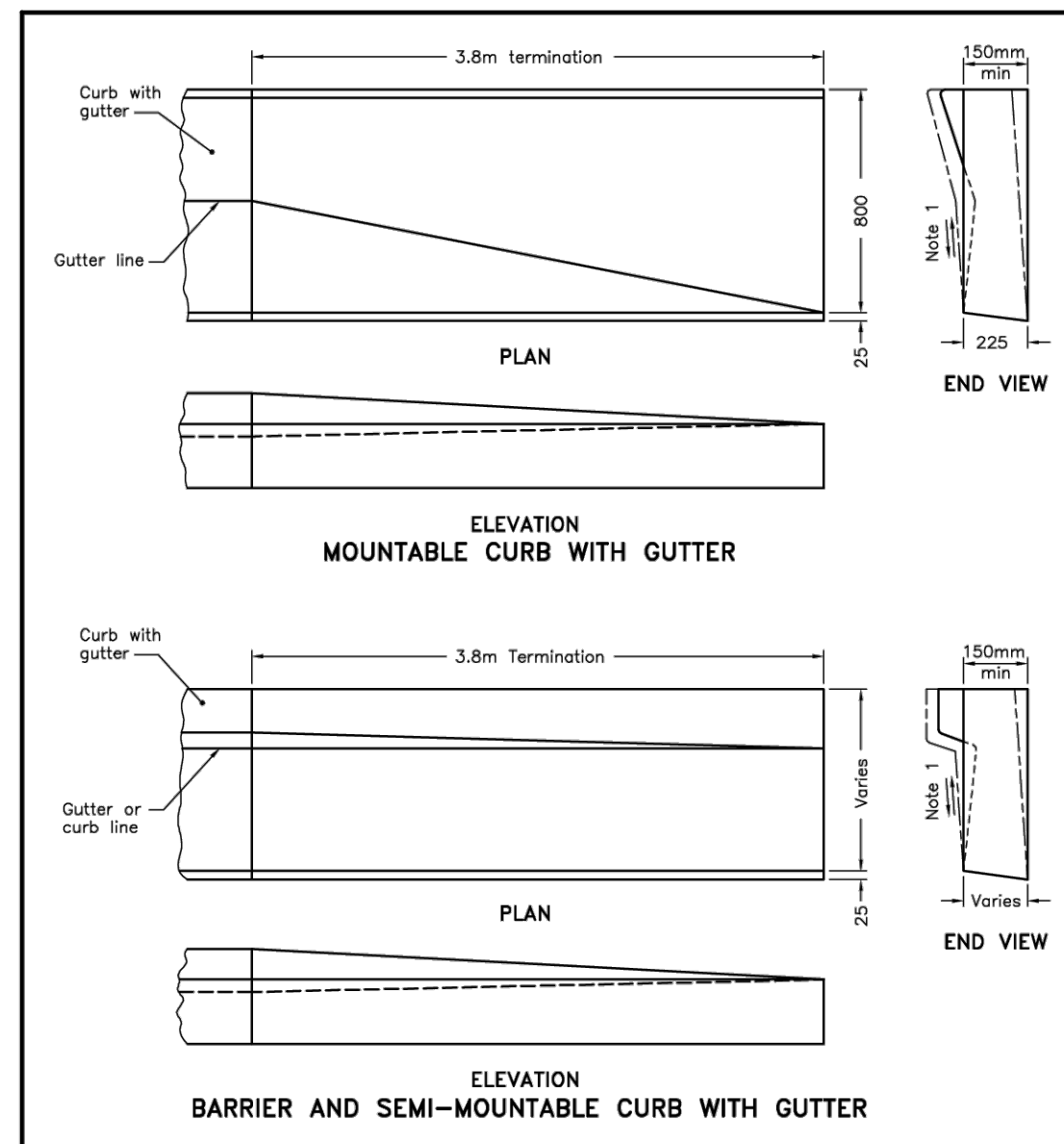
NOTES:

A For asphalt spillway details refer to OPSD 605.040.  
 B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2012 Rev 2

**45° CONCRETE OUTLET FOR CONCRETE CURB WITH GUTTER**

OPSD 605.010



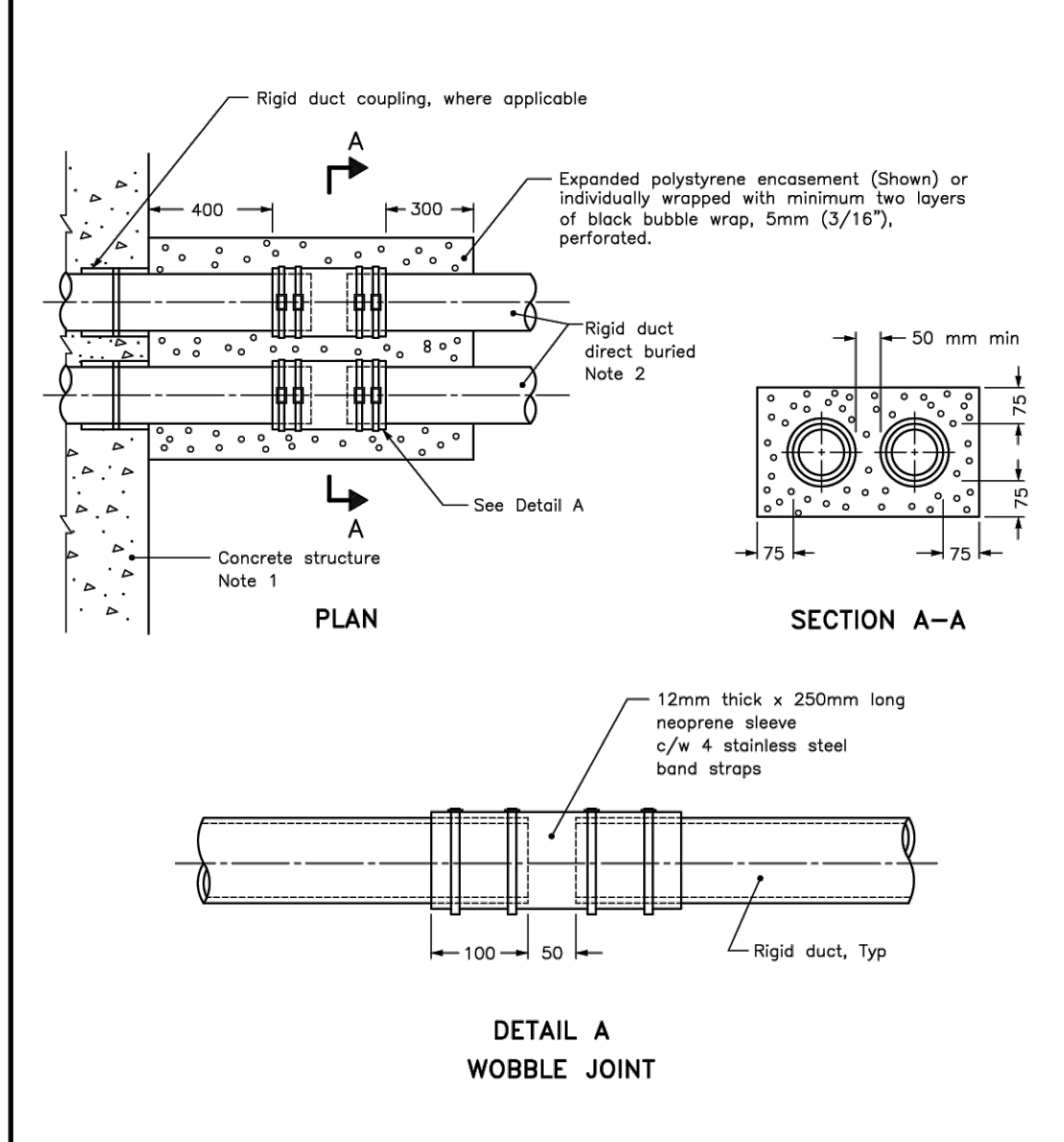
NOTES:

1 Slope shall match existing shoulder.  
 A This drawing shall be read in conjunction with OPSD 600 series curb with gutter drawings.  
 B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2012 Rev 2

**METHOD OF TERMINATION FOR CONCRETE CURB WITH GUTTER**

OPSD 608.010



NOTES:

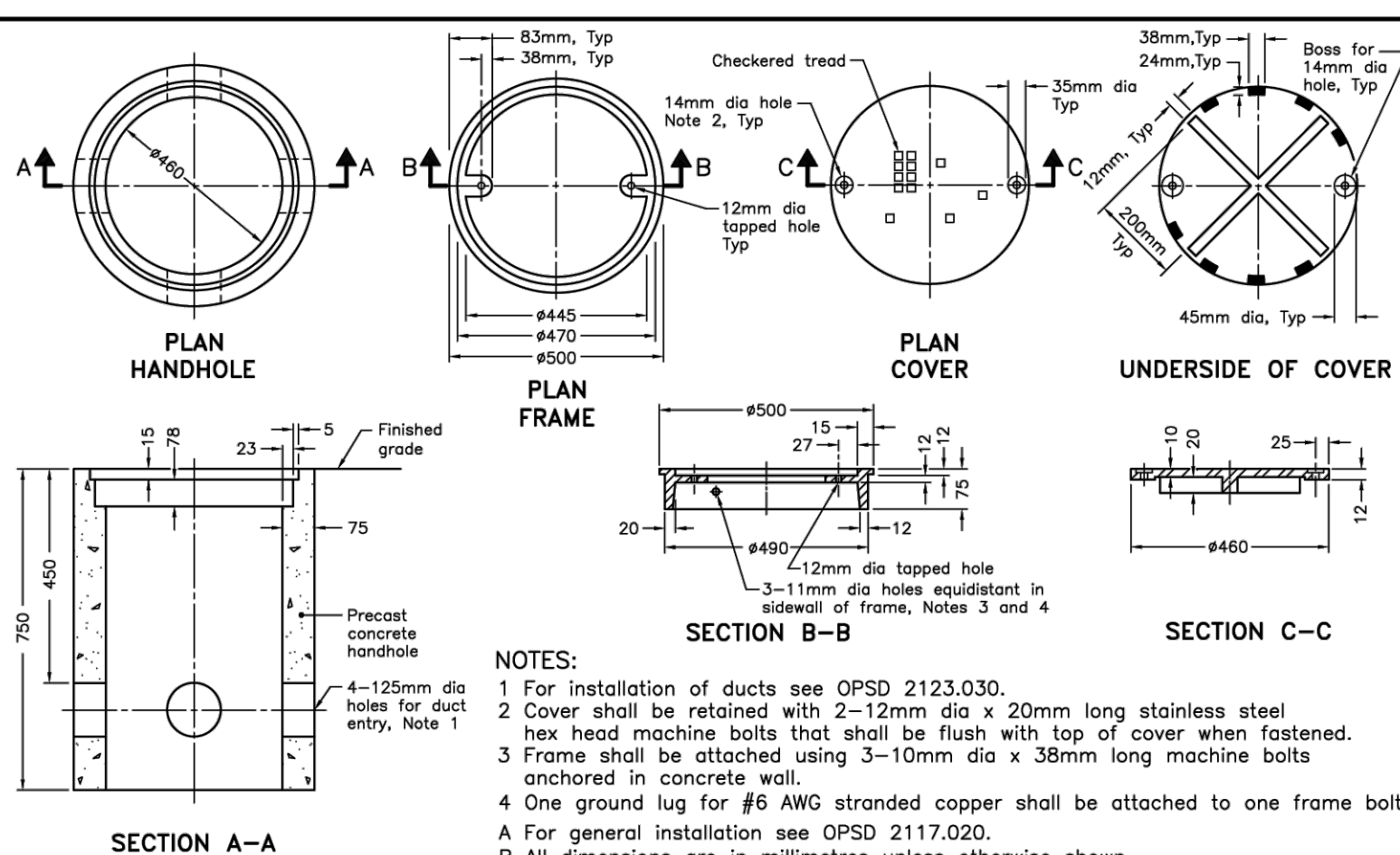
- Concrete structures include bridge structure, concrete footing, electrical maintenance hole, concrete duct bank, etc.
- For number, sizes, and orientation of ducts, refer to Contract Drawings.

A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Apr 2021 Rev 2

**UNDERGROUND RIGID DUCT CONNECTION AT CONCRETE STRUCTURE**

OPSD 2102.010



NOTES:

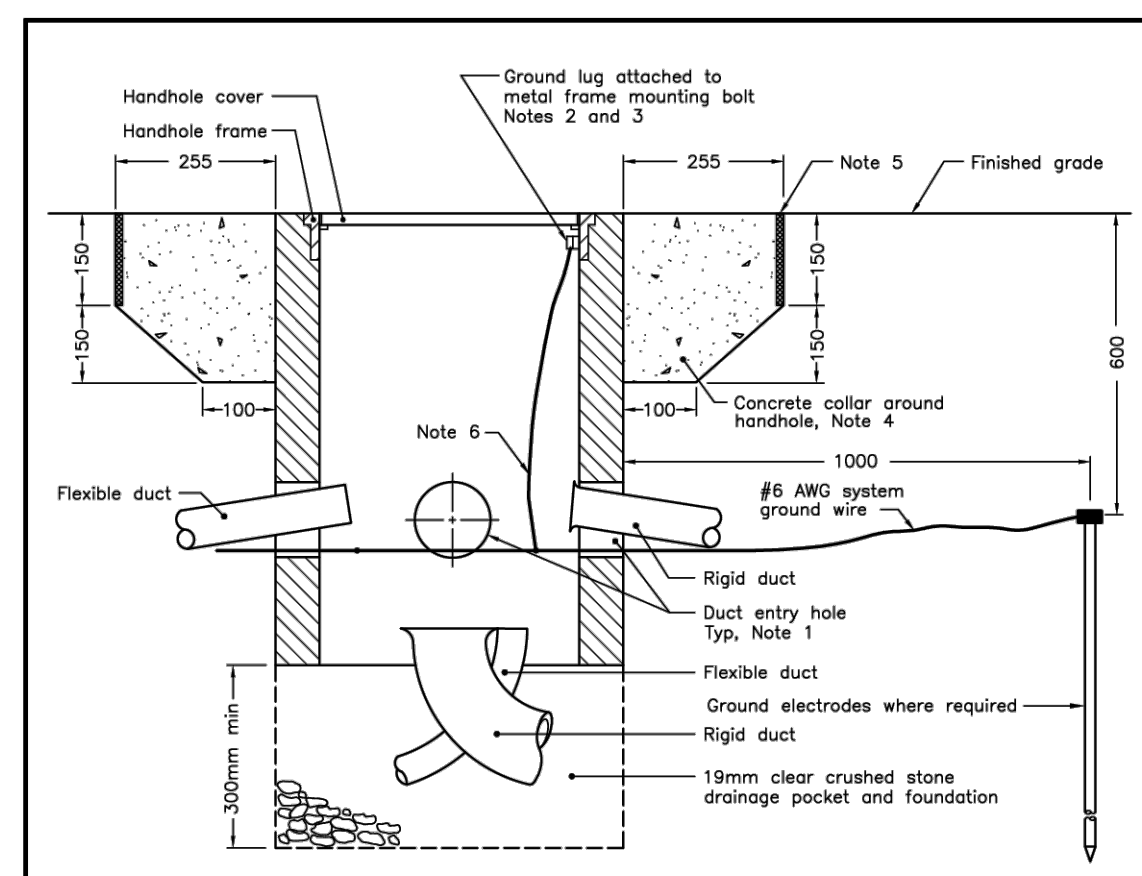
- For installation of ducts see OPSD 2123.030.
- Cover shall be retained with 2-12mm dia x 20mm long stainless steel hex head machine bolts that shall be flush with top of cover when fastened.
- Frame shall be attached using 3-10mm dia x 38mm long machine bolts anchored in concrete wall.
- One ground lug for #6 AWG stranded copper shall be attached to one frame bolt.

A For general installation see OPSD 2117.020.  
 B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2017 Rev 0

**ELECTRICAL HANDHOLE PRECAST CONCRETE WITH COVER 460mm DIAMETER**

OPSD 2112.020



NOTES:

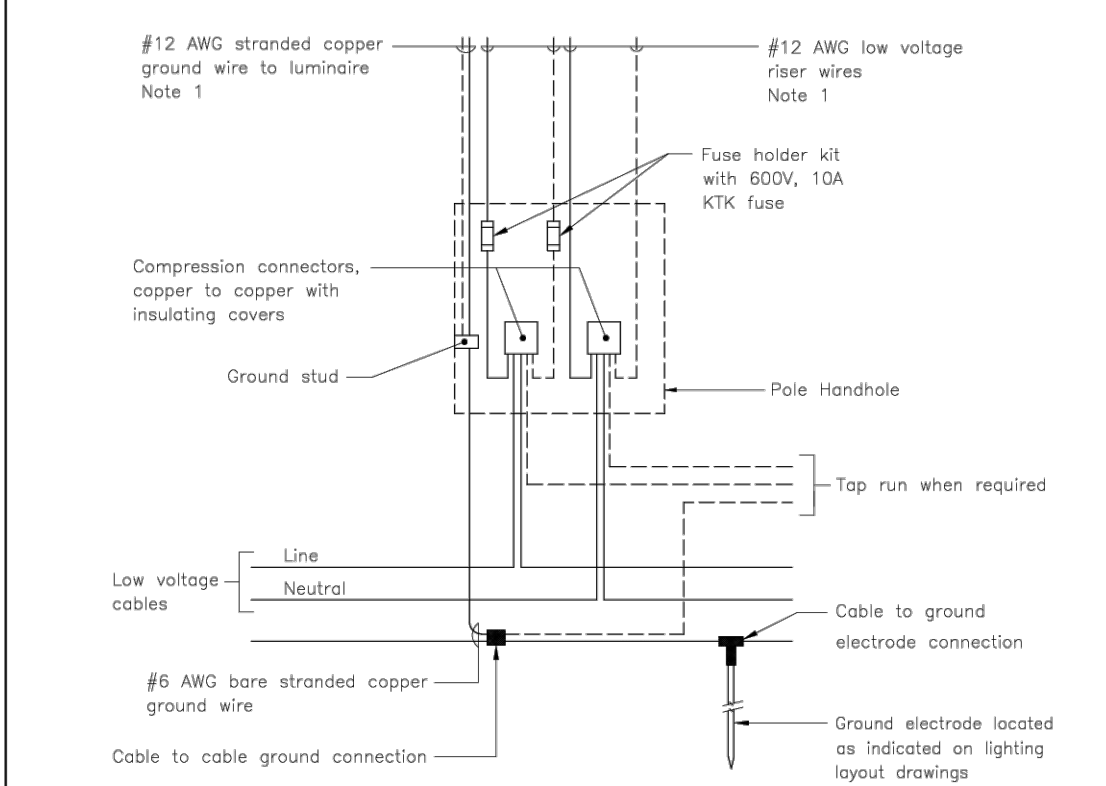
- For duct entry details see OPSD 2123.030.
- For handholes with metal frames, ground wire shall be attached to frame using a ground lug suitable for #6 AWG stranded copper wire.
- For handholes with metal covers and non-metallic frames or handholes with metal covers not bolted to the metal frame, the ground wire shall be attached to the handhole cover using a ground lug suitable for #6 AWG flat braided copper wire with 1m of slack above finished grade.
- Concrete collar is required around the complete perimeter of all electrical handholes except:
  - concrete electrical handholes, or
  - handholes installed in concrete pavement or sidewalk.
- In raised traffic islands, install 12mm expansion board at back of curb and install concrete collar to suit.
- For handholes with only extra low-voltage cables with metal frames and covers, grounding and bonding is not required.

A For specific handhole details see OPSD 2112.010, 2112.020, 2112.030, 2112.040, 2112.050, and 2113.010.  
 B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2017 Rev 0

**ELECTRICAL HANDHOLES GENERAL INSTALLATION REQUIREMENTS**

OPSD 2117.020



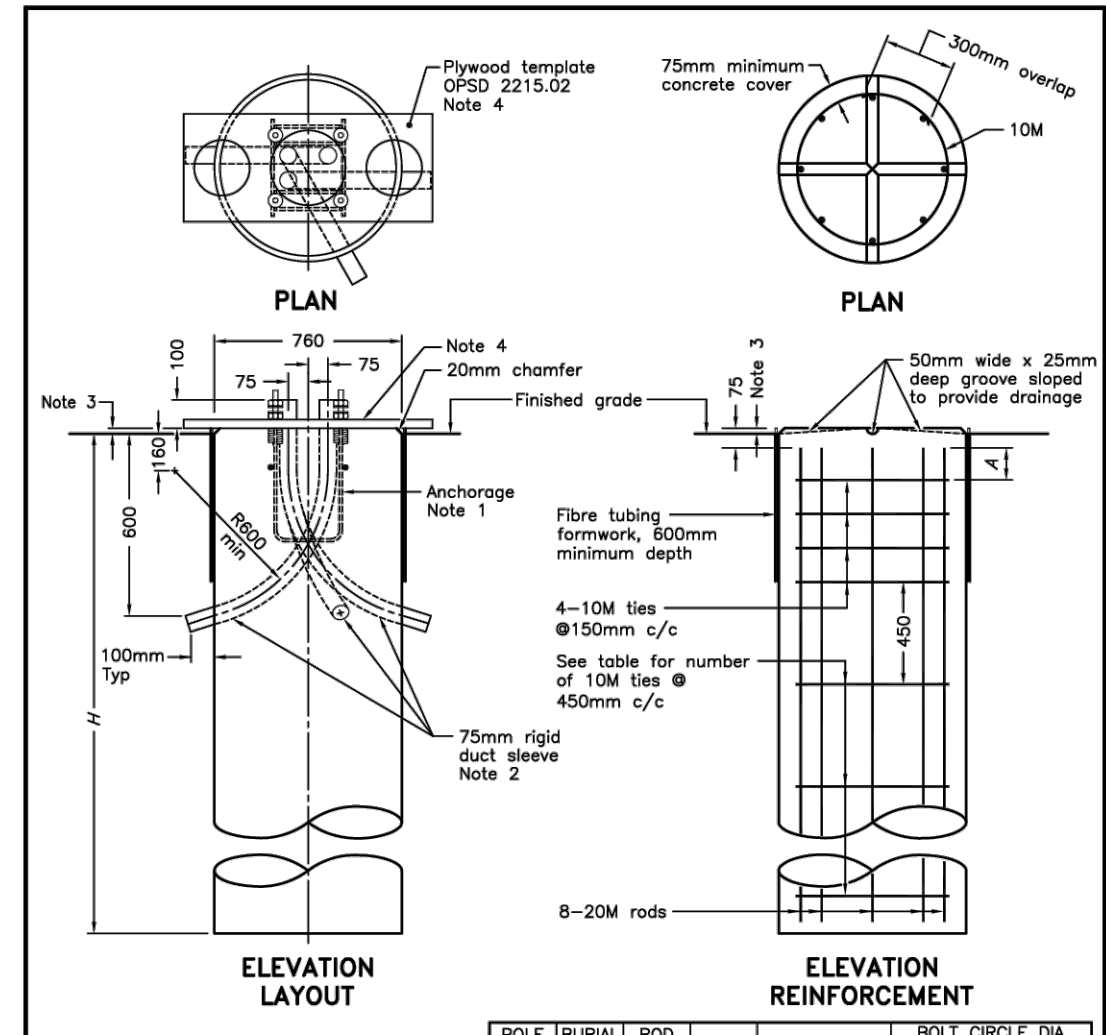
NOTE:

1 Broken lines indicate additional conductors for double luminaire installation.

ONTARIO PROVINCIAL STANDARD DRAWING APR 2023 Rev 2

**LIGHTING POLE WIRING DIAGRAM 120V SYSTEM**

OPSD 2255.010



NOTES:

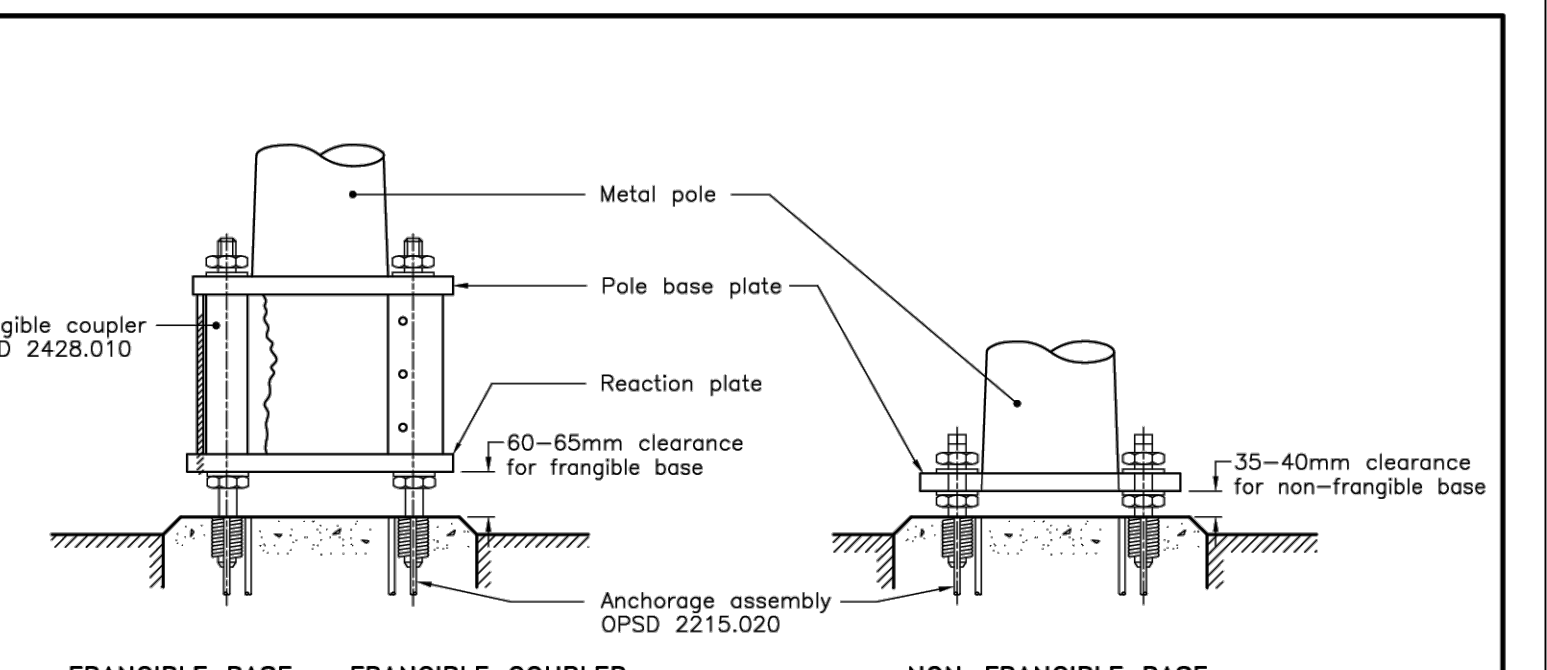
- For anchorage assembly see OPSD 2215.02.
- Minimum of two sleeves required for each concrete footing. Three sleeves as specified.
- Top of footing shall be installed at 40mm ±15mm above finished grade in paved or concrete areas and 75mm ±20mm above finished grade in earth or gravel areas.
- Plywood template set level. Remove to finish concrete after initial set.

A For pole mounting details see OPSD 2215.03.  
 B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2012 Rev 2

**CONCRETE FOOTING FOR BASE MOUNTED LIGHTING AND SIGNAL POLES**

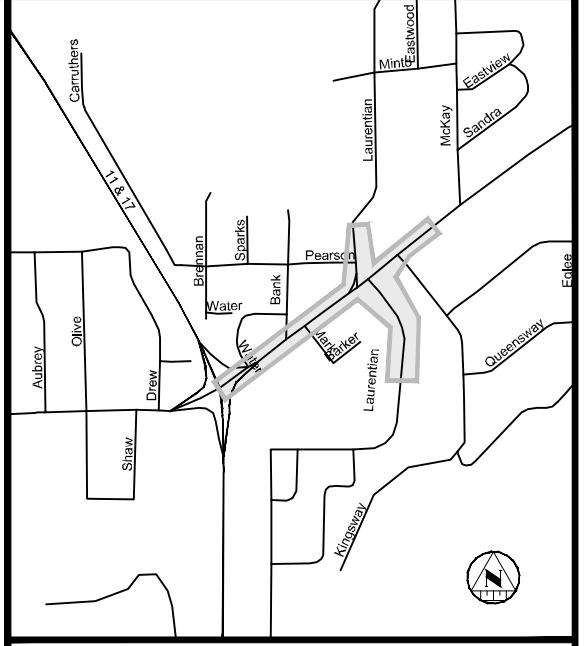
OPSD 2200.01



ONTARIO PROVINCIAL STANDARD DRAWING Apr 2024 Rev 5

**POLE MOUNTING DETAILS FOR BASE MOUNTED METAL POLE**

OPSD 2215.030



NOTES

REVISIONS

No.	Date	By	Description
1.	JAN 06 2026	JR	ISSUED FOR 60% REVIEW
2.	FEB 20 2026	JR	ISSUED FOR 80% REVIEW
3.	MAR 20 2026	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2026	JR	ISSUED FOR TENDER

Professional Stamp:

JR J.L.Richards ENGINEERS-ARCHITECTS-PLANNERS

NORTH BAY ONTARIO-CANADA Just North Enough to be PERFECT

TROUT LAKE ROAD RECONSTRUCTION

STANDARD DETAILS

STANDARD DETAILS PLAN 2

Designer: SF/AY Checked by: MM  
 Date: 11/18/2025 Approved by: JR

Scale

Drawing Number: D-4 Drawing Set: 26 of 30

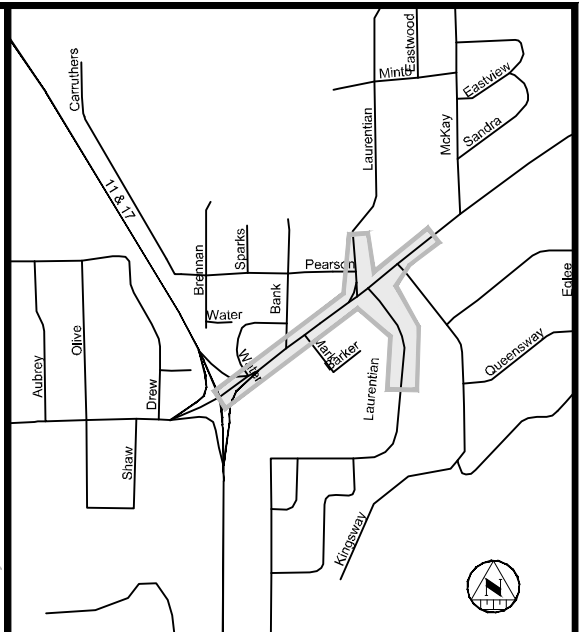
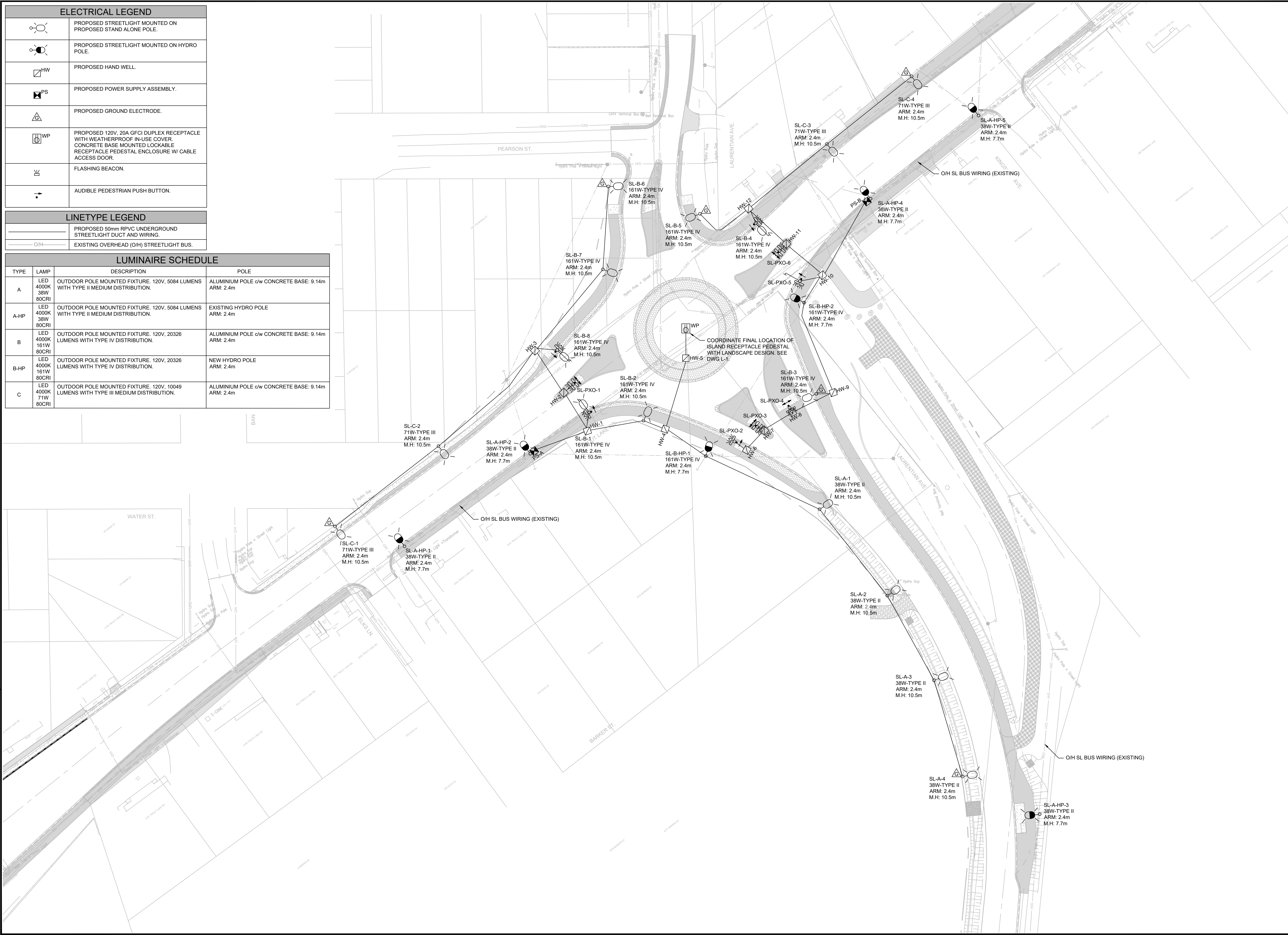
File Location: P:\33000\33654-000 - NB Trout Lake Rd Reson\10-Production\10-Civil\33654-000-DETAILS.dwg

PLOT DATE: March 27, 2026 10:22:00 AM

ELECTRICAL LEGEND	
	PROPOSED STREETLIGHT MOUNTED ON PROPOSED STAND ALONE POLE.
	PROPOSED STREETLIGHT MOUNTED ON HYDRO POLE.
	PROPOSED HAND WELL.
	PROPOSED POWER SUPPLY ASSEMBLY.
	PROPOSED GROUND ELECTRODE.
	PROPOSED 120V, 20A GFCI DUPLEX RECEPTACLE WITH WEATHERPROOF IN-USE COVER. CONCRETE BASE MOUNTED LOCKABLE RECEPTACLE PEDESTAL ENCLOSURE W/ CABLE ACCESS DOOR.
	FLASHING BEACON.
	AUDIBLE PEDESTRIAN PUSH BUTTON.

LINETYPE LEGEND	
	PROPOSED 50mm RPVC UNDERGROUND STREETLIGHT DUCT AND WIRING.
	EXISTING OVERHEAD (O/H) STREETLIGHT BUS.

LUMINAIRE SCHEDULE			
TYPE	LAMP	DESCRIPTION	POLE
A	LED 4000K 38W 80CRI	OUTDOOR POLE MOUNTED FIXTURE. 120V, 5084 LUMENS WITH TYPE II MEDIUM DISTRIBUTION.	ALUMINIUM POLE c/w CONCRETE BASE: 9.14m ARM: 2.4m
A-HP	LED 4000K 38W 80CRI	OUTDOOR POLE MOUNTED FIXTURE. 120V, 5084 LUMENS WITH TYPE II MEDIUM DISTRIBUTION.	EXISTING HYDRO POLE ARM: 2.4m
B	LED 4000K 161W 80CRI	OUTDOOR POLE MOUNTED FIXTURE. 120V, 20326 LUMENS WITH TYPE IV DISTRIBUTION.	ALUMINIUM POLE c/w CONCRETE BASE: 9.14m ARM: 2.4m
B-HP	LED 4000K 161W 80CRI	OUTDOOR POLE MOUNTED FIXTURE. 120V, 20326 LUMENS WITH TYPE IV DISTRIBUTION.	NEW HYDRO POLE ARM: 2.4m
C	LED 4000K 71W 80CRI	OUTDOOR POLE MOUNTED FIXTURE. 120V, 10049 LUMENS WITH TYPE III MEDIUM DISTRIBUTION.	ALUMINIUM POLE c/w CONCRETE BASE: 9.14m ARM: 2.4m



**NOTES**

- CONTRACTOR IS RESPONSIBLE FOR ALL LOCATES: UNDERGROUND HYDRO, TRAFFIC SIGNAL DUCTS, BELL FIBRE OPTIC CABLES, WATER MAIN, CABLE TV CABLES, ETC.
- PROVIDE 78mm Ø DUCT BETWEEN POWER PANEL AND CONTROLLER LOCATION.
- ALL DUCTING TO BE MINIMUM OF 600mm DEPTH IN NON-VEHICULAR AREAS OR 760mm IN VEHICULAR AREAS.
- STAKE EQUIPMENT LOCATION AND REVIEW WITH ENGINEER & CITY STAFF PRIOR TO CONSTRUCTION.
- ENSURE APPROPRIATE CLEARANCES TO OVERHEAD AND UNDERGROUND UTILITIES, AS REQUIRED. CONSULT ENGINEER IF ISSUES ARE EXPERIENCED.
- ALL COMPONENTS AND INSTALLATIONS TO MEET CITY OF NORTH BAY & LOCAL HYDRO UTILITY STANDARDS, AS APPLICABLE. CONTRACTOR TO HAND DIG POLE LOCATION WHEN WITHIN 300mm FROM EXISTING UTILITIES (TYPICAL).
- THE CONTRACTOR SHALL COORDINATE WITH LOCAL HYDRO AUTHORITY AND PROVIDE 10m SERVICE COIL, RISER CONDUIT AND WEATHERHEAD AT BASE OF THE POLE FOR SERVICE CONNECTION BY LOCAL HYDRO AUTHORITY.
- PROVIDE MECHANICAL PROTECTION UP TO 2m ABOVE GRADE FOR CONDUIT RISERS TO FEED STREET LIGHTS ON NEW HYDRO POLES.
- CONTRACTOR TO COORDINATE ALL STREET LIGHTING INSTALLATIONS ON HYDRO POLES WITH NORTH BAY HYDRO.

**REVISIONS**

No.	Date	By	Description
1.	JAN 06 2025	JR	ISSUED FOR 60% REVIEW
2.	FEB 20 2025	JR	ISSUED FOR 90% REVIEW
3.	MAR 20 2025	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2025	JR	ISSUED FOR TENDER

Professional Stamp:



**TROUT LAKE ROAD RECONSTRUCTION**

**SITE PLAN**

**TROUT LAKE ROAD ELECTRICAL STREET LIGHTING PLAN**

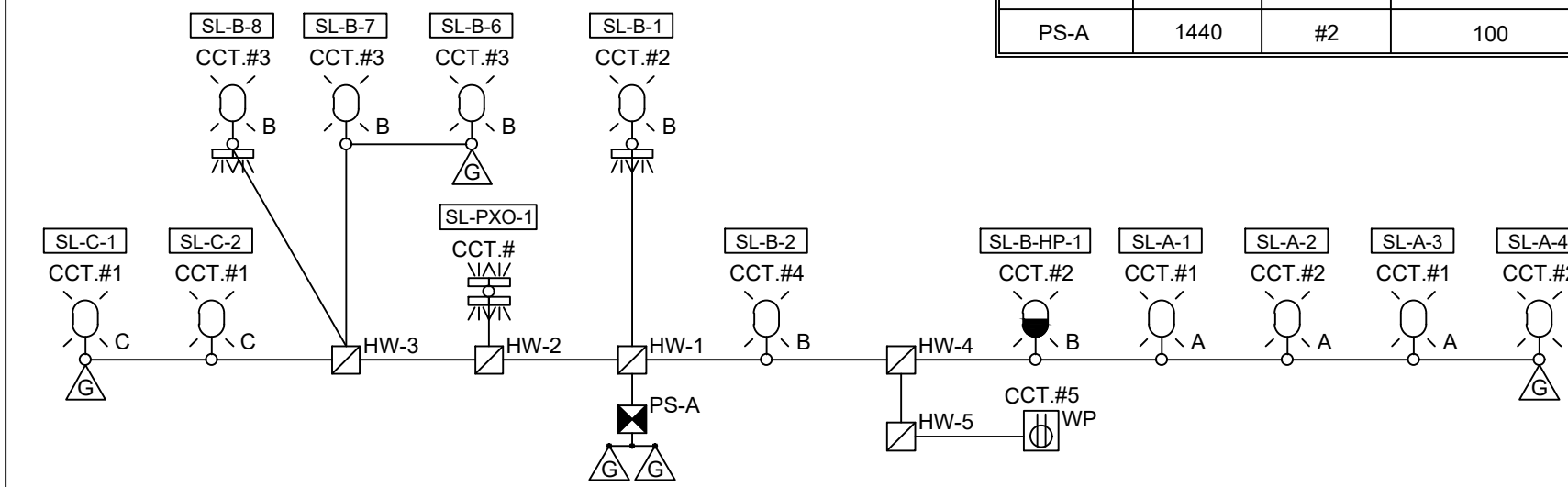
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Date: 11/18/2025	Approved by: JR
Scale: 1:500	
Drawing Number: SL-1	Drawing Set: 27 of 30

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PLOT DATE: March 27, 2025 10:22:31 AM

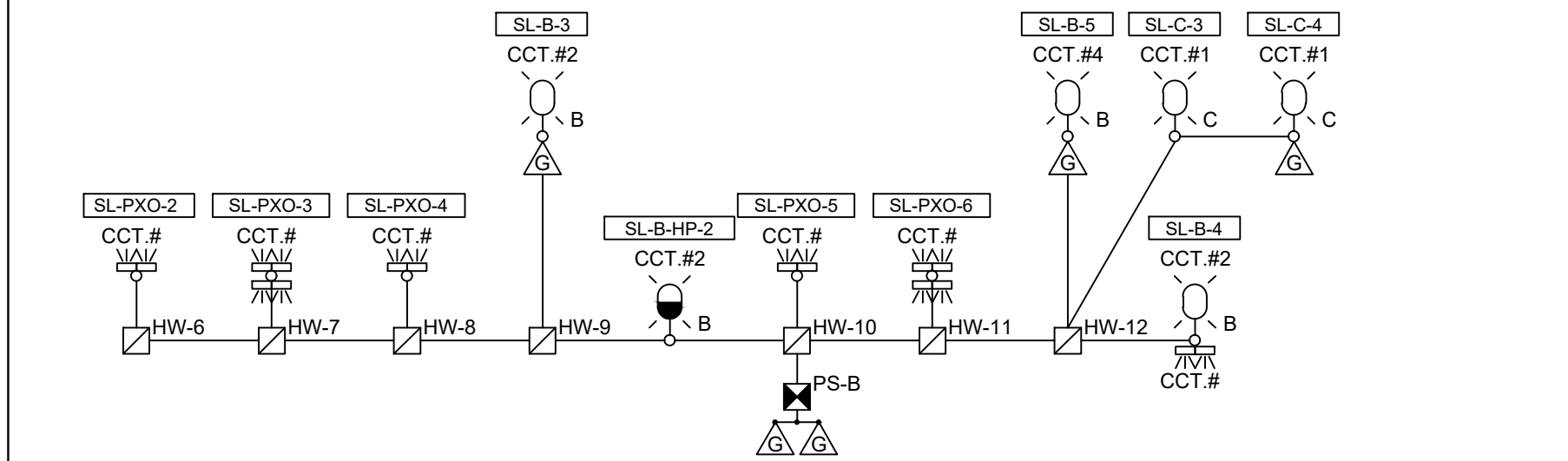
POWER SUPPLY A (PS-A) WIRING DETAIL

CIRCUIT (phase)	LOAD (watts)	FEEDER (AWG)	BREAKER SIZE (amps)
CCT#1	218	#6	40
CCT#2	398	#6	40
CCT#3	483	#6	40
CCT#4	161	#6	40
CCT#5	180	#10	20
PS-A	1440	#2	100

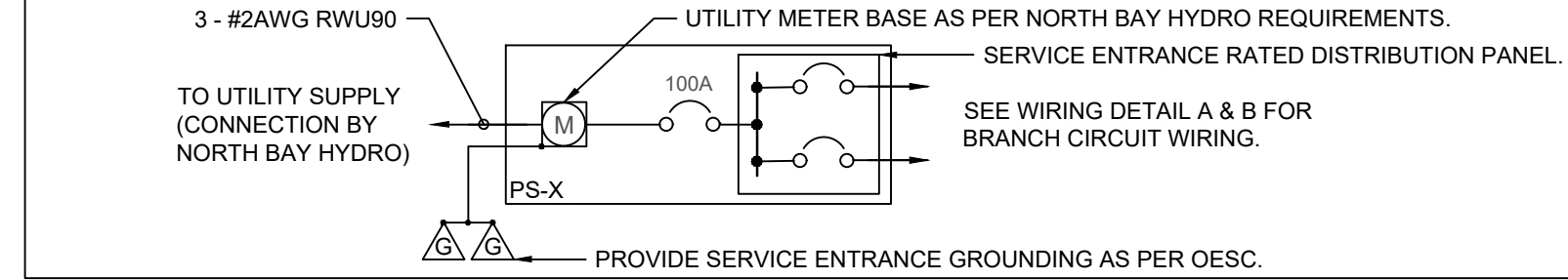


POWER SUPPLY B (PS-B) WIRING DETAIL

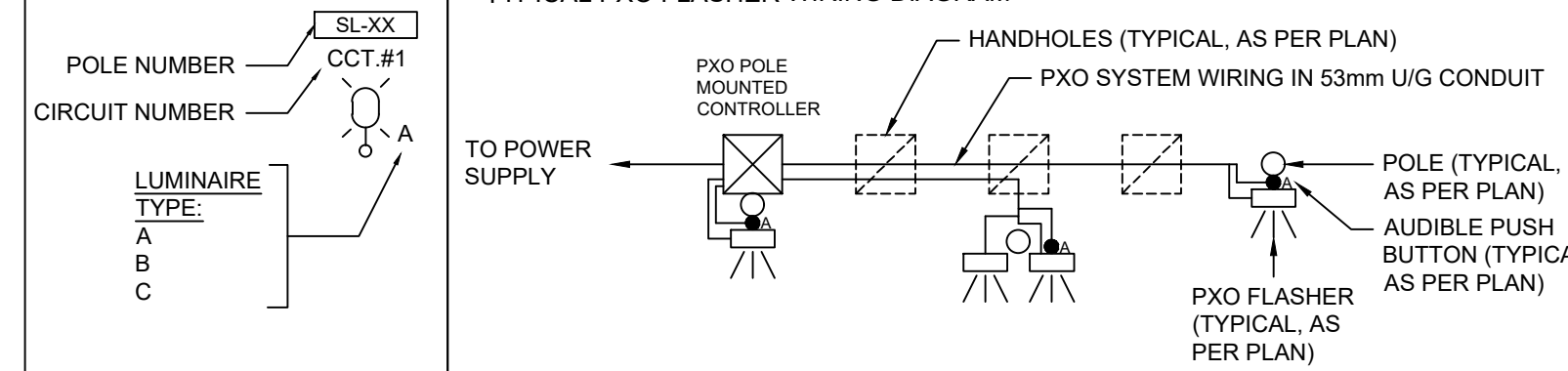
CIRCUIT (phase)	LOAD (watts)	FEEDER (AWG)	BREAKER SIZE (amps)
CCT#1	142	#6	40
CCT#2	483	#6	40
CCT#4	161	#6	40
PS-B	786	#2	100



POWER SUPPLY CABINET WIRING DETAIL



TYPICAL PXO FLASHER WIRING DIAGRAM

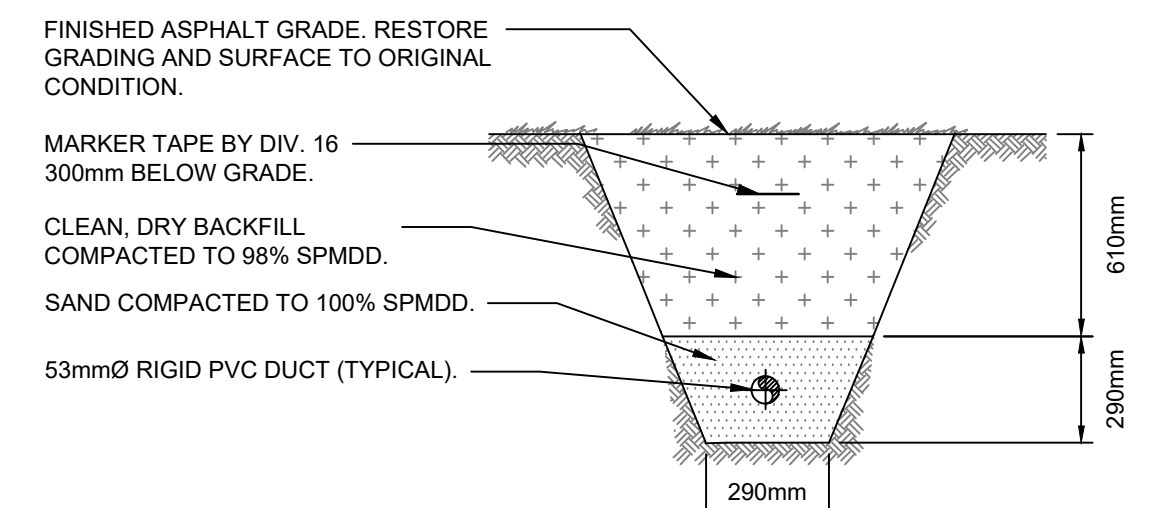


POLE SCHEDULE

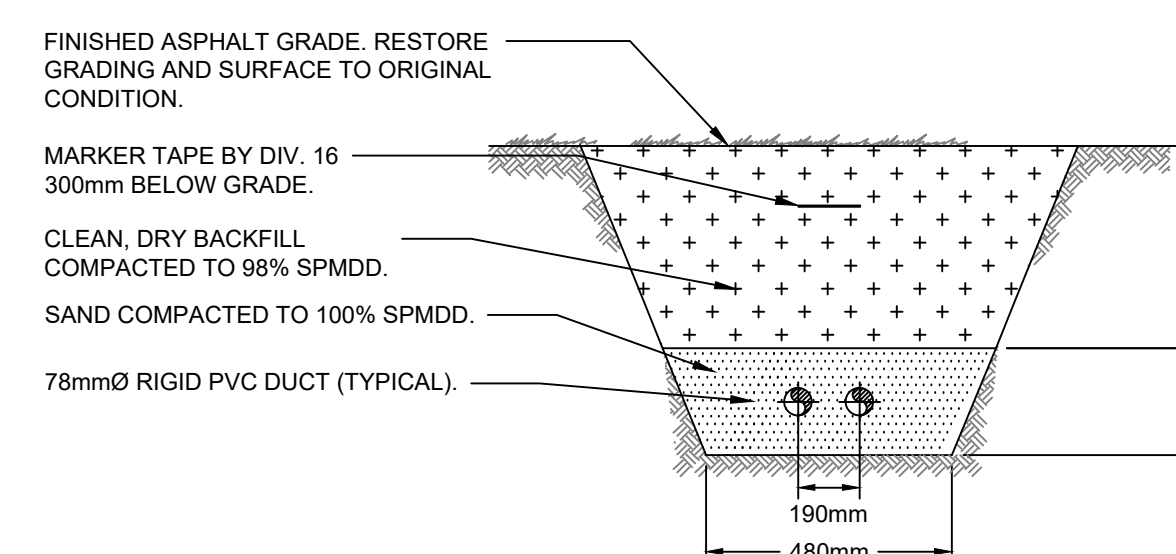
POLE No.	LOCATION		POLE			SETTING		LUMINAIRE				LUMINAIRE MOUNTING				NOTES		
	ROAD NAME	INSTN	MATL	LENGTH	CLASS	OPSD	MATERIAL	INSTN	WATT/VOLTS	TYPE	PC	CAT No.	INSTN	TYPE	LENGTH		MATL	
SL-A-1	LAURENTIAN AVE	NEW	AL	9.14m	LD	2200.01	CONC.	NEW	38W/120V	LED	YES	GPLS-16L700NW-G3-R2M	NEW	ARM	2.4m	AL		
SL-A-2	LAURENTIAN AVE	NEW	AL	9.14m	LD	2200.01	CONC.	NEW	38W/120V	LED	YES	GPLS-16L700NW-G3-R2M	NEW	ARM	3.0m	AL		
SL-A-3	LAURENTIAN AVE	NEW	AL	9.14m	LD	2200.01	CONC.	NEW	38W/120V	LED	YES	GPLS-16L700NW-G3-R2M	NEW	ARM	3.0m	AL		
SL-A-4	LAURENTIAN AVE	NEW	AL	9.14m	LD	2200.01	CONC.	NEW	38W/120V	LED	YES	GPLS-16L700NW-G3-R2M	NEW	ARM	3.0m	AL		
SL-A-HP-1	TROUT LAKE RD	EXISTING	WOOD	BY NBH				NEW	38W/120V	LED	YES	GPLS-16L700NW-G3-R2M	EX	ARM	2.4m	AL	EXISTING ARM AND O/H WIRING, POLE BY NORTH BAY HYDRO (NBH)	
SL-A-HP-2	TROUT LAKE RD	EXISTING	WOOD	BY NBH				NEW	38W/120V	LED	YES	GPLS-16L700NW-G3-R2M	EX	ARM	2.4m	AL	EXISTING ARM AND O/H WIRING, POLE BY NORTH BAY HYDRO (NBH)	
SL-A-HP-3	LAURENTIAN AVE	EXISTING	WOOD	BY NBH				NEW	38W/120V	LED	YES	GPLS-16L700NW-G3-R2M	EX	ARM	2.4m	AL	EXISTING ARM AND O/H WIRING, POLE BY NORTH BAY HYDRO (NBH)	
SL-A-HP-4	TROUT LAKE RD	EXISTING	WOOD	BY NBH				NEW	38W/120V	LED	YES	GPLS-16L700NW-G3-R2M	EX	ARM	2.4m	AL	EXISTING ARM AND O/H WIRING, POLE BY NORTH BAY HYDRO (NBH)	
SL-A-HP-5	TROUT LAKE RD	EXISTING	WOOD	BY NBH				NEW	38W/120V	LED	YES	GPLS-16L700NW-G3-R2M	EX	ARM	2.4m	AL	EXISTING ARM AND O/H WIRING, POLE BY NORTH BAY HYDRO (NBH)	
SL-B-1	TROUT LAKE RD	NEW	AL	9.14m	LD	2200.01	CONC.	NEW	161W/120V	LED	YES	GPLS-48L1050NW-G3-4	NEW	ARM	2.4m	AL	PXO FLASHER AND PUSH BUTTON, 4.6m ARM FOR SIGNAGE	
SL-B-2	LAURENTIAN AVE	NEW	AL	9.14m	LD	2200.01	CONC.	NEW	161W/120V	LED	YES	GPLS-48L1050NW-G3-4	NEW	ARM	2.4m	AL		
SL-B-3	LAURENTIAN AVE	NEW	AL	9.14m	LD	2200.01	CONC.	NEW	161W/120V	LED	YES	GPLS-48L1050NW-G3-4	NEW	ARM	2.4m	AL		
SL-B-4	TROUT LAKE RD	NEW	AL	9.14m	LD	2200.01	CONC.	NEW	161W/120V	LED	YES	GPLS-48L1050NW-G3-4	NEW	ARM	2.4m	AL	PXO FLASHER AND PUSH BUTTON, 4.6m ARM FOR SIGNAGE	
SL-B-5	LAURENTIAN AVE	NEW	AL	9.14m	LD	2200.01	CONC.	NEW	161W/120V	LED	YES	GPLS-48L1050NW-G3-4	NEW	ARM	2.4m	AL		
SL-B-6	LAURENTIAN AVE	NEW	AL	9.14m	LD	2200.01	CONC.	NEW	161W/120V	LED	YES	GPLS-48L1050NW-G3-4	NEW	ARM	2.4m	AL		
SL-B-7	LAURENTIAN AVE	NEW	AL	9.14m	LD	2200.01	CONC.	NEW	161W/120V	LED	YES	GPLS-48L1050NW-G3-4	NEW	ARM	2.4m	AL		
SL-B-8	TROUT LAKE RD	NEW	AL	9.14m	LD	2200.01	CONC.	NEW	161W/120V	LED	YES	GPLS-48L1050NW-G3-4	NEW	ARM	2.4m	AL	PXO FLASHER AND PUSH BUTTON, 4.6m ARM FOR SIGNAGE	
SL-B-HP-1	LAURENTIAN AVE	NEW	WOOD	BY NBH	LD	2200.01	CONC.	NEW	161W/120V	LED	YES	GPLS-48L1050NW-G3-4	NEW	ARM	2.4m	AL	NEW U/G WIRING RISERS ON POLE, POLE BY NORTH BAY HYDRO (NBH)	
SL-B-HP-2	TROUT LAKE RD	NEW	WOOD	BY NBH	LD	2200.01	CONC.	NEW	161W/120V	LED	YES	GPLS-48L1050NW-G3-4	NEW	ARM	2.4m	AL	NEW U/G WIRING RISERS ON POLE, POLE BY NORTH BAY HYDRO (NBH)	
SL-C-1	TROUT LAKE RD	NEW	AL	9.14m	LD	2200.01	CONC.	NEW	71W/120V	LED	YES	GPLS-32L700NW-G3-R3M	NEW	ARM	2.4m	AL		
SL-C-2	TROUT LAKE RD	NEW	AL	9.14m	LD	2200.01	CONC.	NEW	71W/120V	LED	YES	GPLS-32L700NW-G3-R3M	NEW	ARM	2.4m	AL		
SL-C-3	TROUT LAKE RD	NEW	AL	9.14m	LD	2200.01	CONC.	NEW	71W/120V	LED	YES	GPLS-32L700NW-G3-R3M	NEW	ARM	2.4m	AL		
SL-C-4	TROUT LAKE RD	NEW	AL	9.14m	LD	2200.01	CONC.	NEW	71W/120V	LED	YES	GPLS-32L700NW-G3-R3M	NEW	ARM	2.4m	AL		
SL-PXO-1	TROUT LAKE RD	NEW	AL	4.6m	LD	2200.01	CONC.										PXO FLASHER (2) AND PUSH BUTTON	
SL-PXO-2	LAURENTIAN AVE	NEW	AL	4.6m	LD	2200.01	CONC.											PXO FLASHER AND PUSH BUTTON
SL-PXO-3	LAURENTIAN AVE	NEW	AL	4.6m	LD	2200.01	CONC.											PXO FLASHER (2) AND PUSH BUTTON
SL-PXO-4	LAURENTIAN AVE	NEW	AL	4.6m	LD	2200.01	CONC.											PXO FLASHER AND PUSH BUTTON
SL-PXO-5	TROUT LAKE RD	NEW	AL	5.8m	LD	2200.01	CONC.											PXO FLASHER AND PUSH BUTTON, 4.6m ARM FOR SIGNAGE
SL-PXO-6	TROUT LAKE RD	NEW	AL	4.6m	LD	2200.01	CONC.											PXO FLASHER (2) AND PUSH BUTTON

HANDWELL SUMMARY

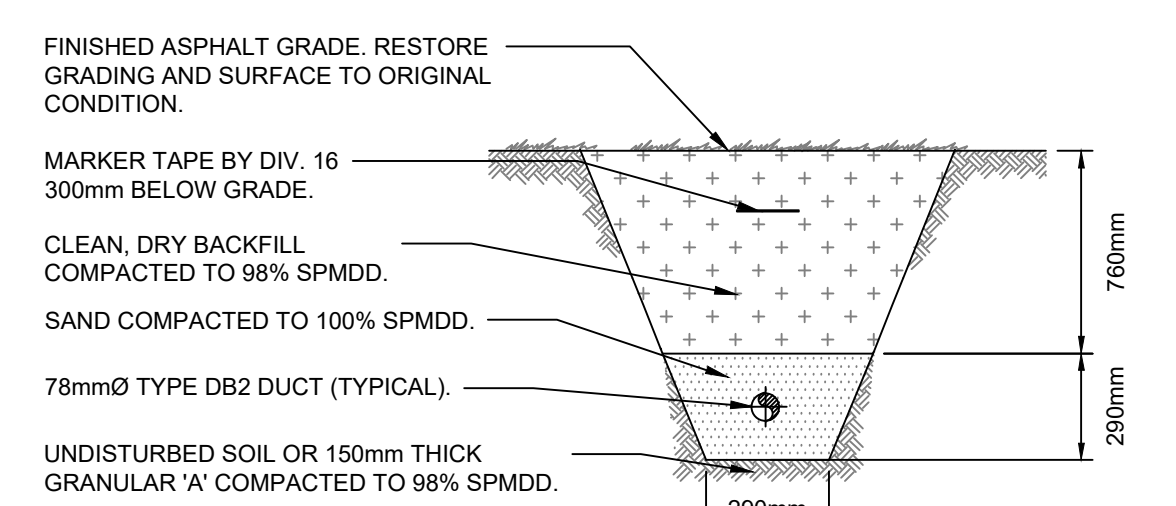
HW NO.	INSTN	INSTN	MATL	DIA./DIMEN SIONS	OPSD	NOTES
HW-1	NEW	NEW	CONC.	Ø460MM	2112.020	
HW-2	NEW	NEW	CONC.	Ø460MM	2112.020	
HW-3	NEW	NEW	CONC.	Ø460MM	2112.020	
HW-4	NEW	NEW	CONC.	Ø460MM	2112.020	
HW-5	NEW	NEW	CONC.	Ø460MM	2112.020	
HW-6	NEW	NEW	CONC.	Ø460MM	2112.020	
HW-7	NEW	NEW	CONC.	Ø460MM	2112.020	
HW-8	NEW	NEW	CONC.	Ø460MM	2112.020	
HW-9	NEW	NEW	CONC.	Ø460MM	2112.020	
HW-10	NEW	NEW	CONC.	Ø460MM	2112.020	
HW-11	NEW	NEW	CONC.	Ø460MM	2112.020	
HW-12	NEW	NEW	CONC.	Ø460MM	2112.020	



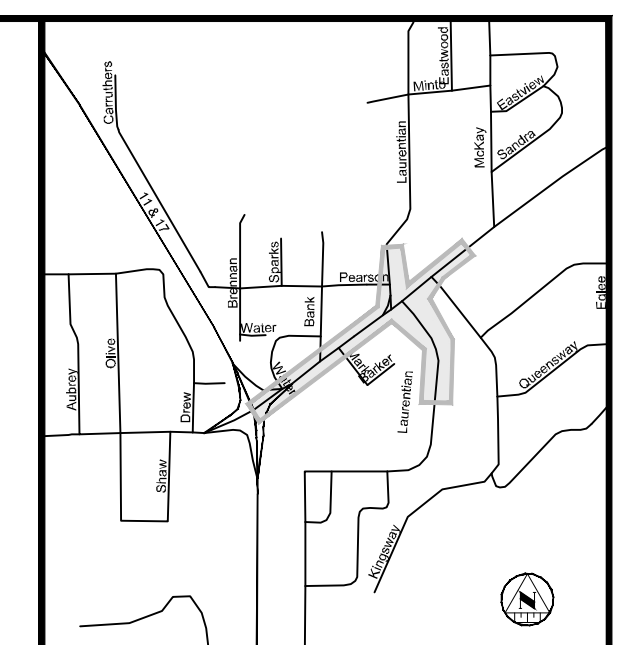
1 STREET LIGHTING DUCTBANK, 1W1H SCALE: N.T.S



2 STREET LIGHTING DUCTBANK, 2W1H (ROAD CROSSINGS) SCALE: N.T.S



3 SECONDARY DUCTBANK, 1W1H SCALE: N.T.S



KEY PLAN

NOTES

REVISIONS

No.	Date	By	Description
1.	JAN 06 2025	JR	ISSUED FOR 60% REVIEW
2.	FEB 20 2025	JR	ISSUED FOR 90% REVIEW
3.	MAR 20 2025	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2025	JR	ISSUED FOR TENDER

Professional Stamp:



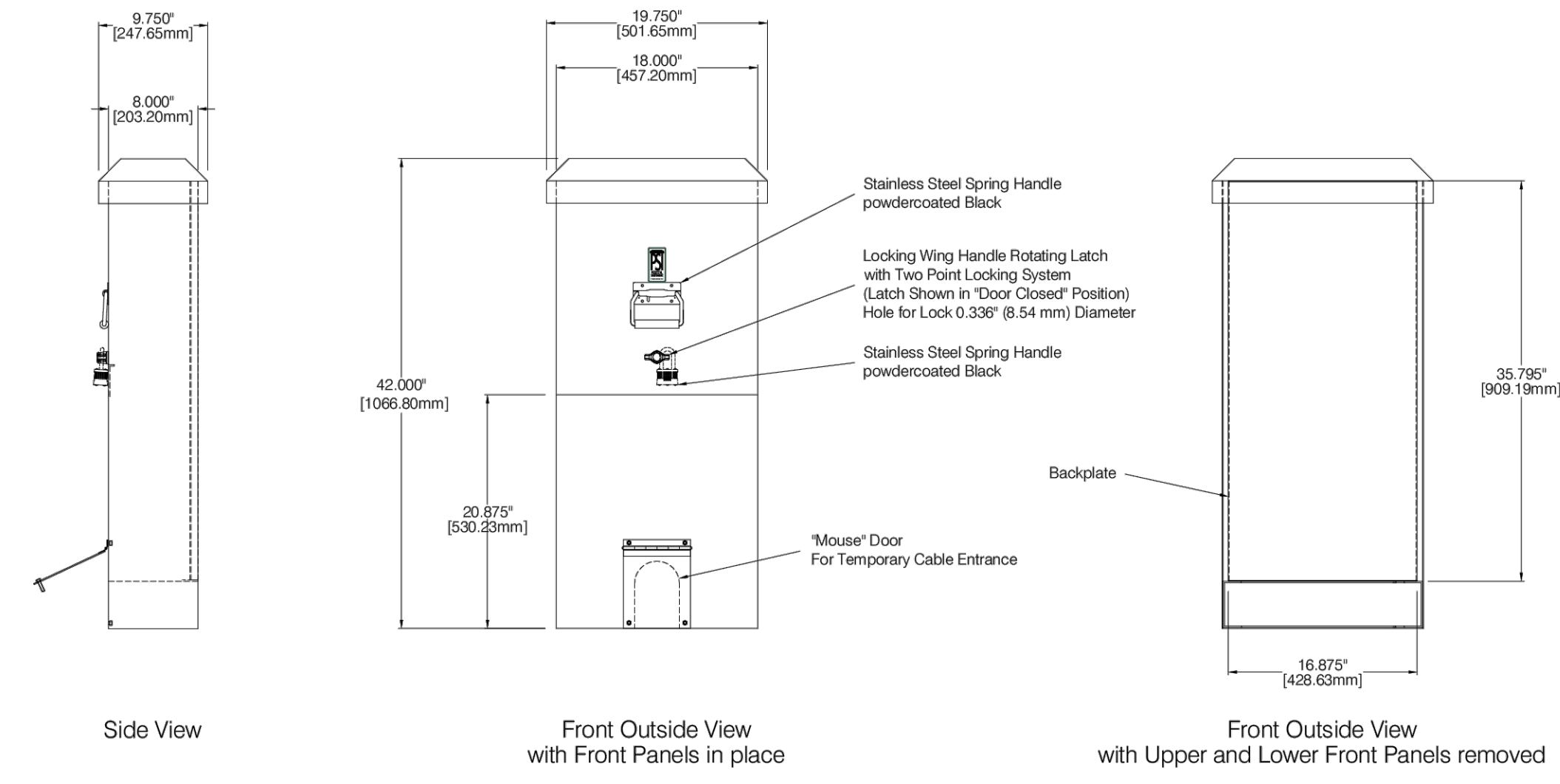
TROUT LAKE ROAD RECONSTRUCTION

SITE PLAN

TROUT LAKE ROAD ELECTRICAL STREET LIGHTING DETAILS 1 OF 2

Designer: SM	Checked by: NG
Date: 11/18/2025	Approved by: JR

Drawing Number: SL-2	Drawing Set: 28 of 30
----------------------	-----------------------



SL42 Empty Pedestal with Mouse Door Option  
(Typical Layout)

Do not Modify or Reproduce  
without PSI Written Consent

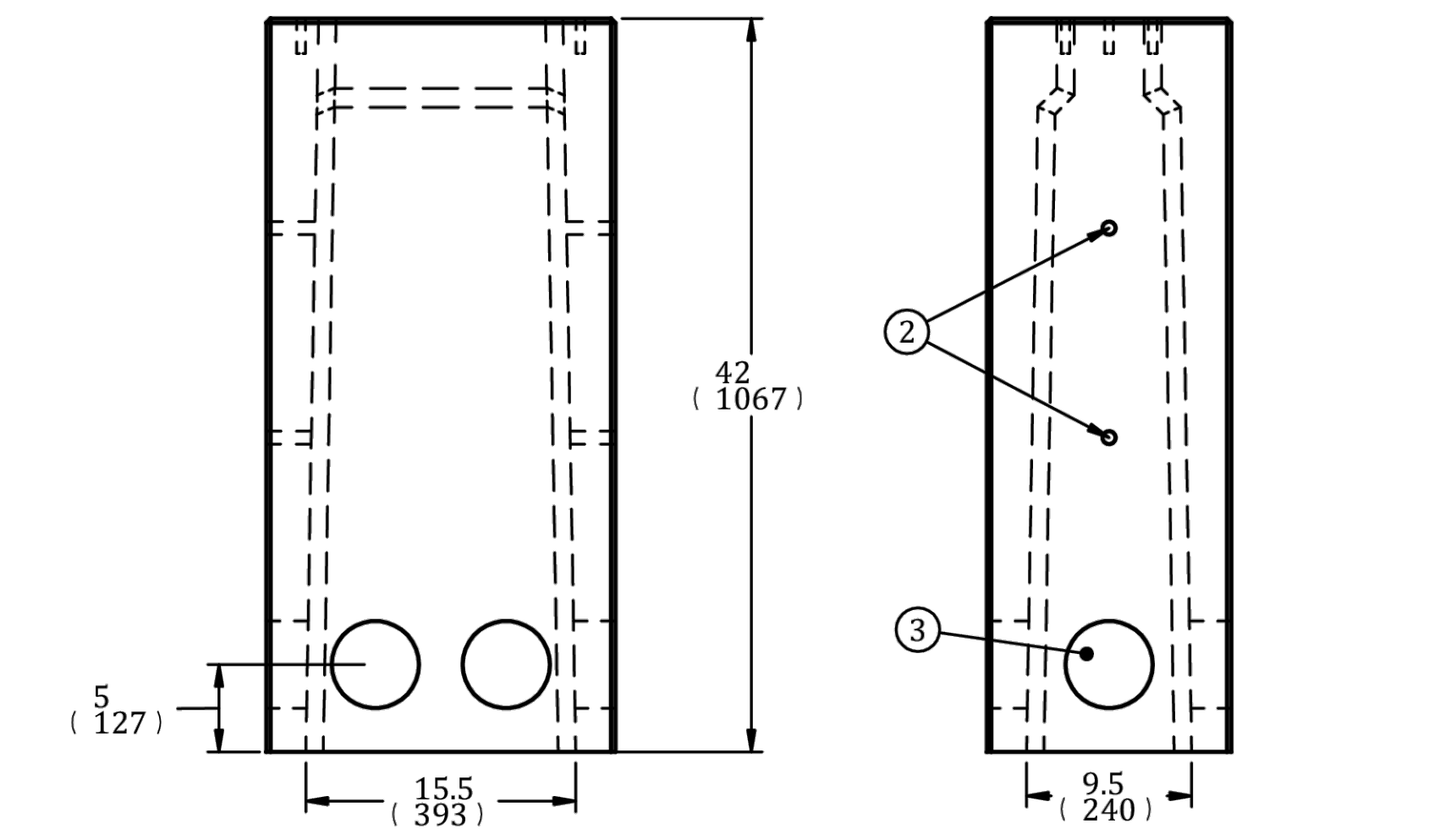
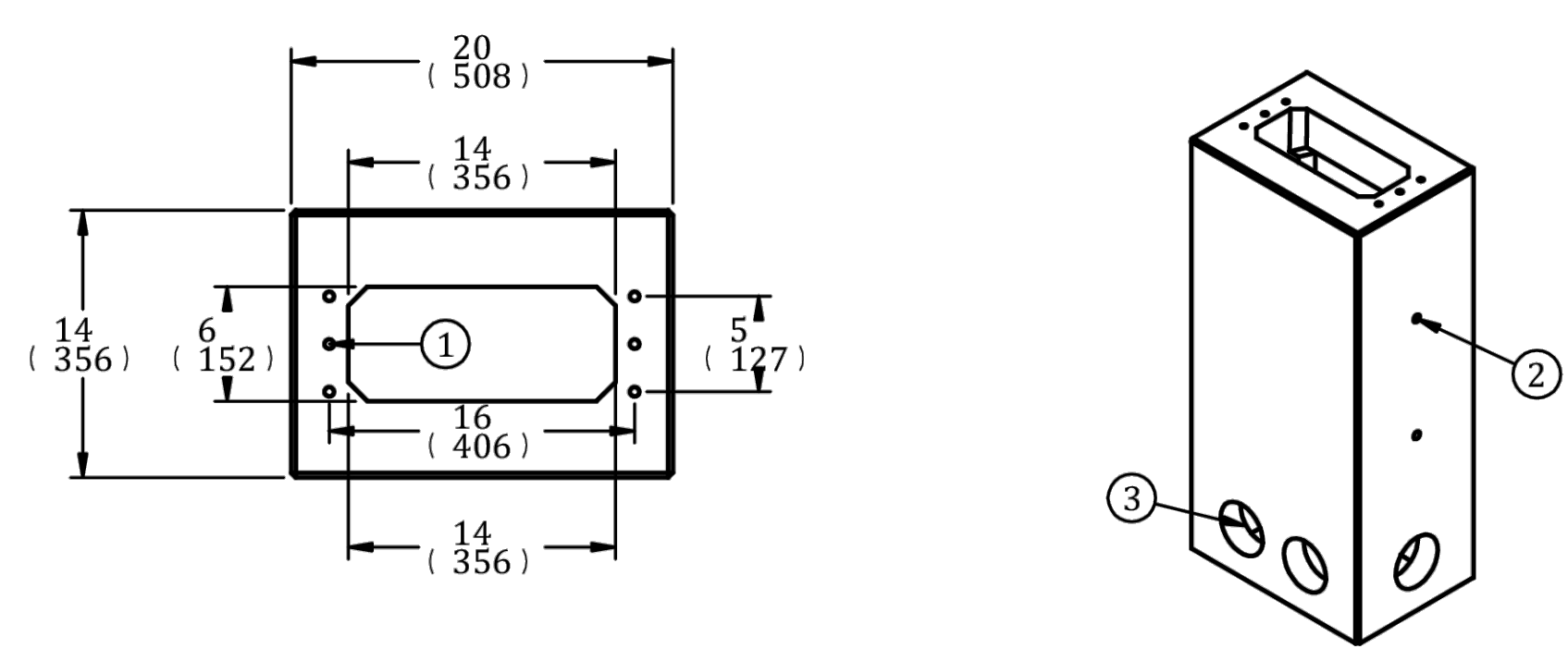
Weatherproof External Enclosure  
is NEMA 3R Listed

Materials Notes:  
Enclosure Mat:  
10 gauge (3.101) thick aluminum sheet metal  
Exterior Powdercoat Colour:  
"Equipment Green", a dark forest green colour,  
Protect F1211028 powder coat  
Backplate Mat:  
Minimum 16 gauge (0.067) thick satin coated mild steel  
sheet. Lat in mill finish  
Fasteners:  
4 Pinned Hex Head Bolts, 1/2"x1 3/4" Grade 2 or better  
4 Pinned 1/2" Flat Washers  
4 Pinned 1/2" Lock Washers  
for mounting into concrete mounting base

Part Number Explanation:  
SL42-EMPTY-MD  
Mouse Door Option  
Empty with no components inside  
height of pedestal in inches  
model of pedestal, SL42, 42" tall  
un-metered pedestal

PEDESTAL SOLUTIONS INC.  
6652 Ravenshoe Road, Unit #16  
Sutton Place, Oak Lake, SK  
Tel: (905) 715-2056  
www.pedestalsolutions.com

TITLE:	SL42
DESCRIPTION:	42" TALL UN-METERED PEDESTAL WITH MOUSE DOOR OPTION
LAYOUT VIEWS:	
DRAWN BY:	RAD
CHECKED BY:	BP
SCALE:	NONE
DATE:	MARCH 04, 2024
REVISION:	A
PAGE:	1 OF 1



Call: (905)778-8400

in  
(mm)



## UP1420

PRECAST PEDESTAL FOUNDATION  
FOR METERING OR STREETLIGHTING  
TYPICAL USE:  
Pedestal solutions inc. Model SLS & SLT  
Powerstream stock code 1800024

### CONSTRUCTION SPECIFICATIONS

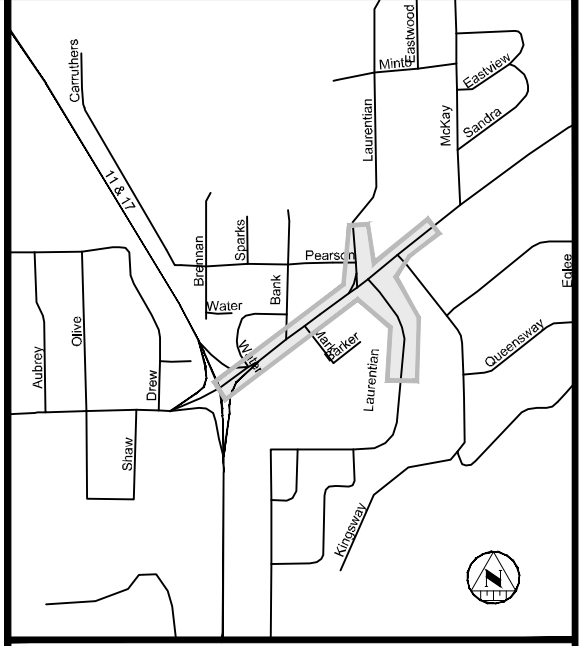
Concrete Properties: 4500 PSI (32 MPa) Min Strength  
6-8% Air Entrainment  
Meets CSA A23.1

Weight - 540 lbs / 220kg (Approximate)

- Notes:
- 1 - Six (6) 1/2" N.C. Nylon threaded inserts
  - 2 - Four (4) 3/4" through holes
  - 3 - Six (6) Cable entry PVC seals

Delivery is made by crane-equipped trucks,  
excavation must be ready, safe and accessible for  
unloading from the rear of the truck.  
Min overhead clearance of 18ft is required.  
ALL UNITS MUST BE HANDLED WITH PROPER  
LIFTING EQUIPMENT .  
(I.E. SPREADER BAR)

DRAWN BY: RM      March 2010



### KEY PLAN

### REVISIONS

No.	Date	By	Description
1.	JAN 06 2026	JR	ISSUED FOR 60% REVIEW
2.	FEB 20 2026	JR	ISSUED FOR 90% REVIEW
3.	MAR 20 2026	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2026	JR	ISSUED FOR TENDER

Professional Stamp:



## TROUT LAKE ROAD RECONSTRUCTION

### SITE PLAN

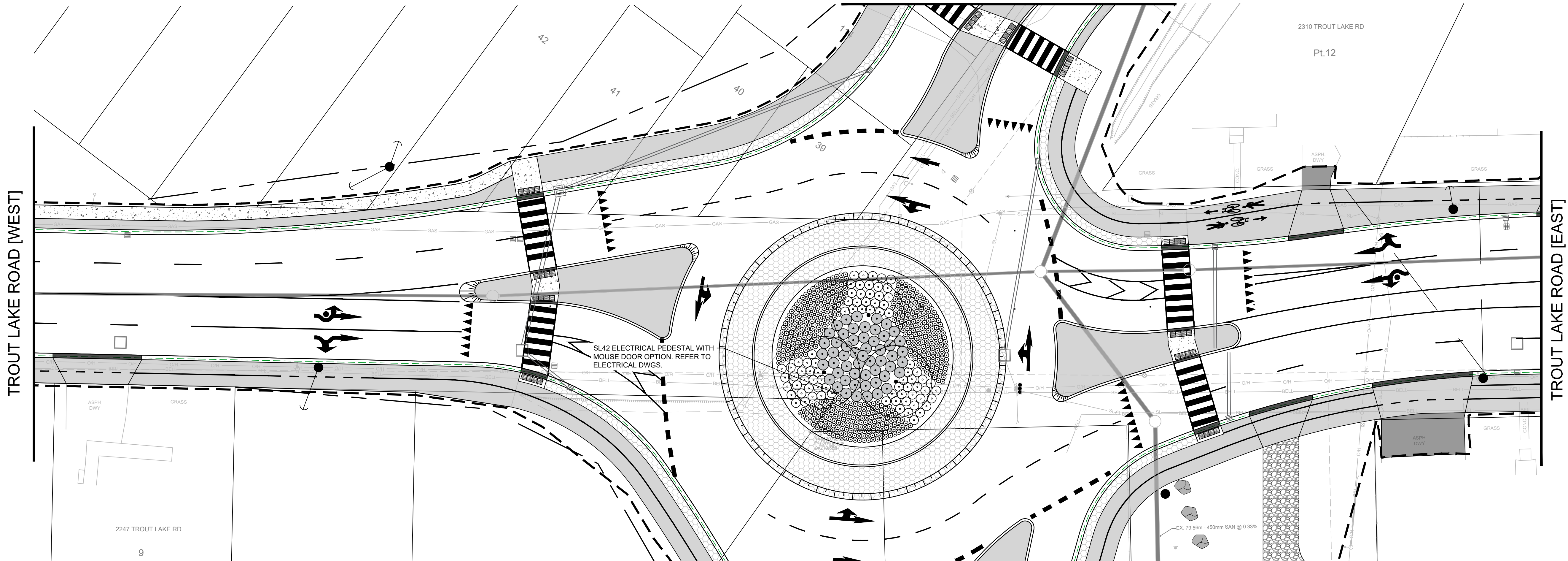
TROUT LAKE ROAD  
ELECTRICAL STREET  
LIGHTING DETAILS 2  
OF 2

Designer: SM	Checked by: NG
Date: 11/18/2025	Approved by: JR

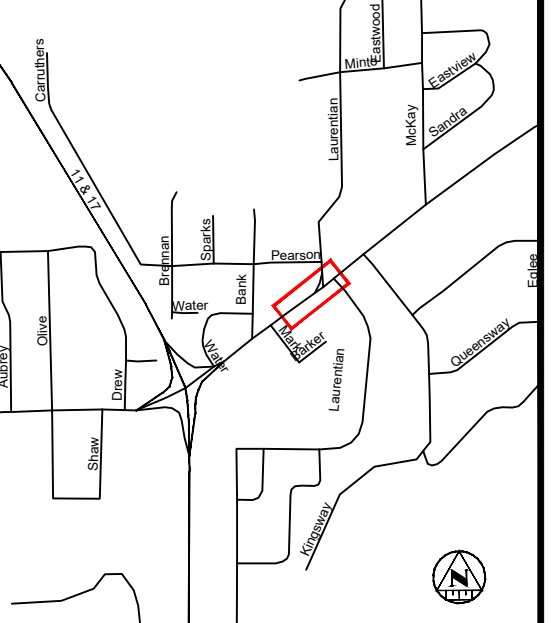
Scale

Drawing Number: **SL-3**      Drawing Set: **29 of 30**

LAURENTIAN AVE. [NORTH]



LAURENTIAN AVE. [SOUTH]



KEY PLAN

NOTES

- THE UTILITIES INFORMATION CONTAINED ON THIS DRAWING MAY BE BASED UPON DATA PROVIDED BY OTHERS AND MAY NOT HAVE BEEN VERIFIED BY EITHER AS-CREATED DRAWINGS OR AN ONTARIO LAND SURVEYOR. THE CITY OF NORTH BAY CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR OMISSIONS ON ANY INFORMATION SHOWN HEREIN. FIELD VERIFICATION, LAND SURVEYS OR EXCAVATION (WITH CITY APPROVALS) MAY BE REQUIRED TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERTY LINES.
- THE UNDERLYING PARCEL FABRIC REPRESENTS APPROXIMATE MEASUREMENTS ONLY AND SHOULD BE VERIFIED BY AN O.L.S.
- REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.
- THIS DRAWING IS ISSUED FOR LANDSCAPE CONSTRUCTION ONLY. CIVIL INFORMATION IS SHOWN FOR COORDINATION WITH THE CONTRACT DRAWINGS AND SHALL NOT BE USED FOR LAYOUT OR CONSTRUCTION OF NON-LANDSCAPE WORKS.

REVISIONS

No.	Date	By	Description
1.	JAN 06 2026	JR	ISSUED FOR 60% REVIEW
2.	FEB 20 2026	JR	ISSUED FOR 90% REVIEW
3.	MAR 20 2026	JR	ISSUED FOR 100% REVIEW
4.	MAR 27 2026	JR	ISSUED FOR TENDER

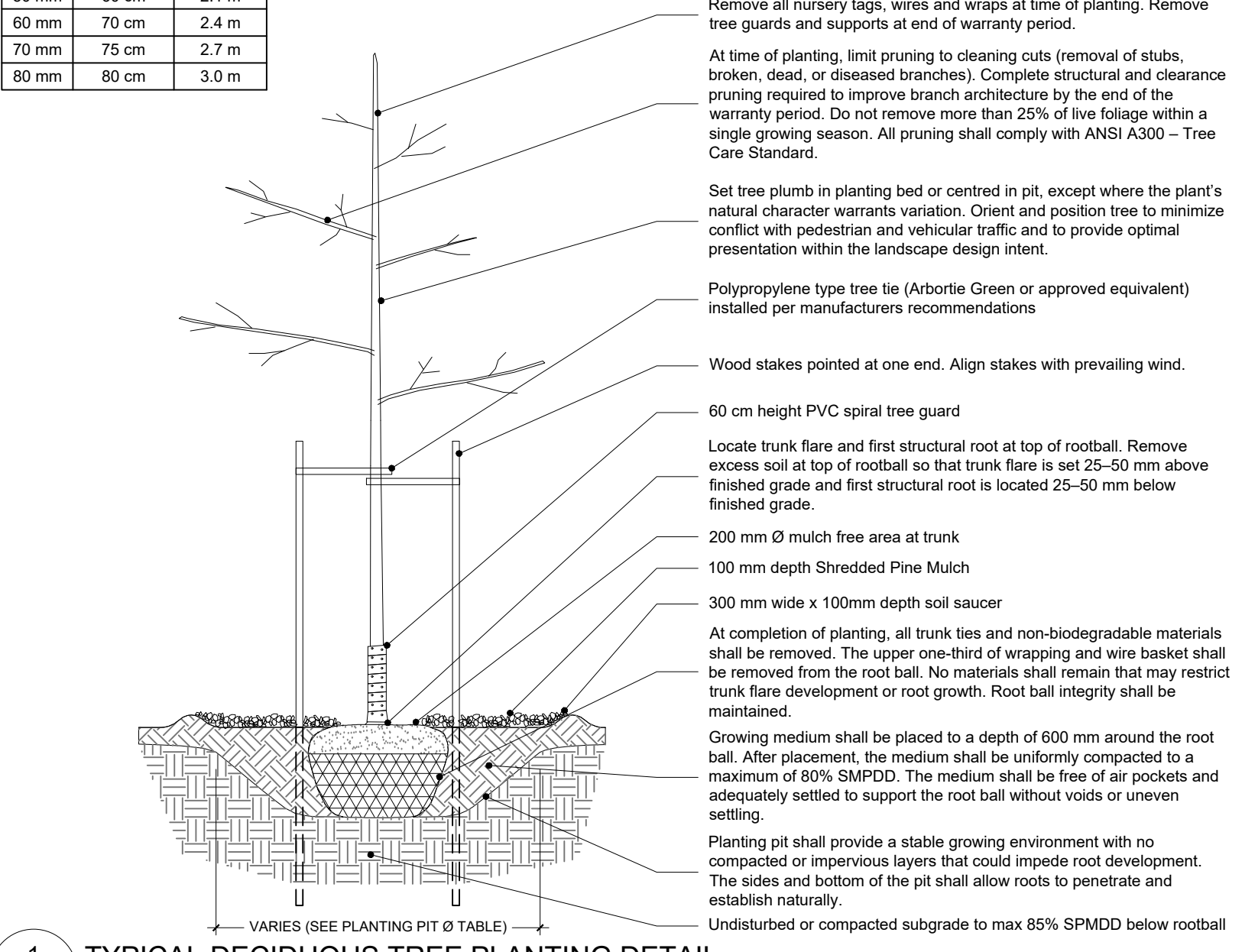
Professional Stamp:

PROPOSED PLANT LIST

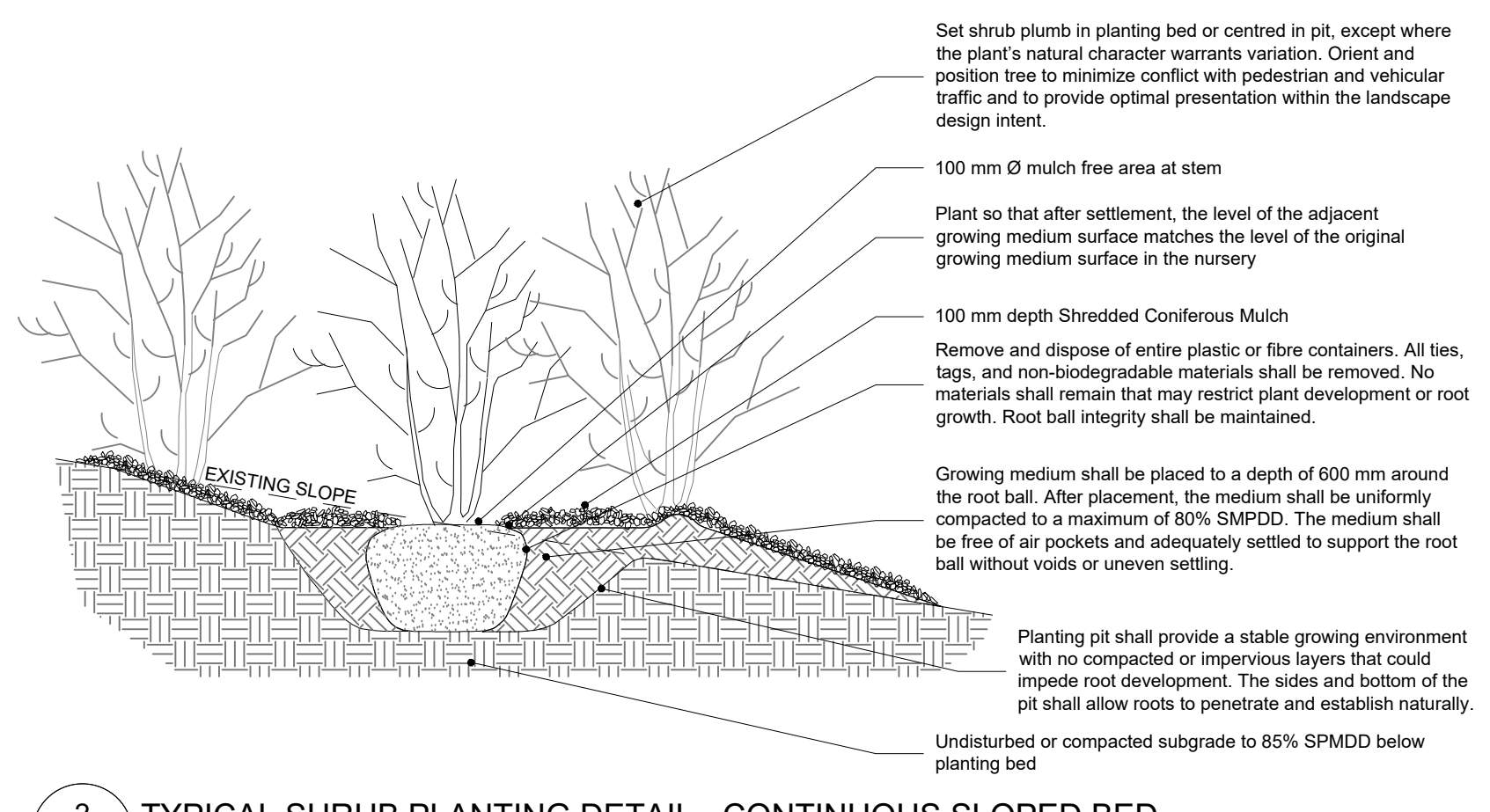
SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	REMARKS
	3	<i>Gleditsia triacanthos</i> var. <i>inermis</i> 'Skycole'	Skyline Honeylocust	60 mm Caliper	Wire Basket	50cm On Centre Spacing
	54	<i>Sobaria sorbifolia</i> 'Sem'	False Spirea	50 cm Height	3 Gallon Pot	120cm On Centre Spacing
	78	<i>Hydrangea arborescens</i> 'Invincibelle Ruby'	Invincibelle Ruby Hydrangea	50cm Height	3 Gallon Pot	100cm On Centre Spacing
	528	<i>Emerocallis</i> 'Stella D'Oro'	Reblooming Daylily (Yellow)	-	1 Gallon	50cm On Centre Spacing
	663	TOTAL PLANTS				

PLANTING PIT Ø TABLE

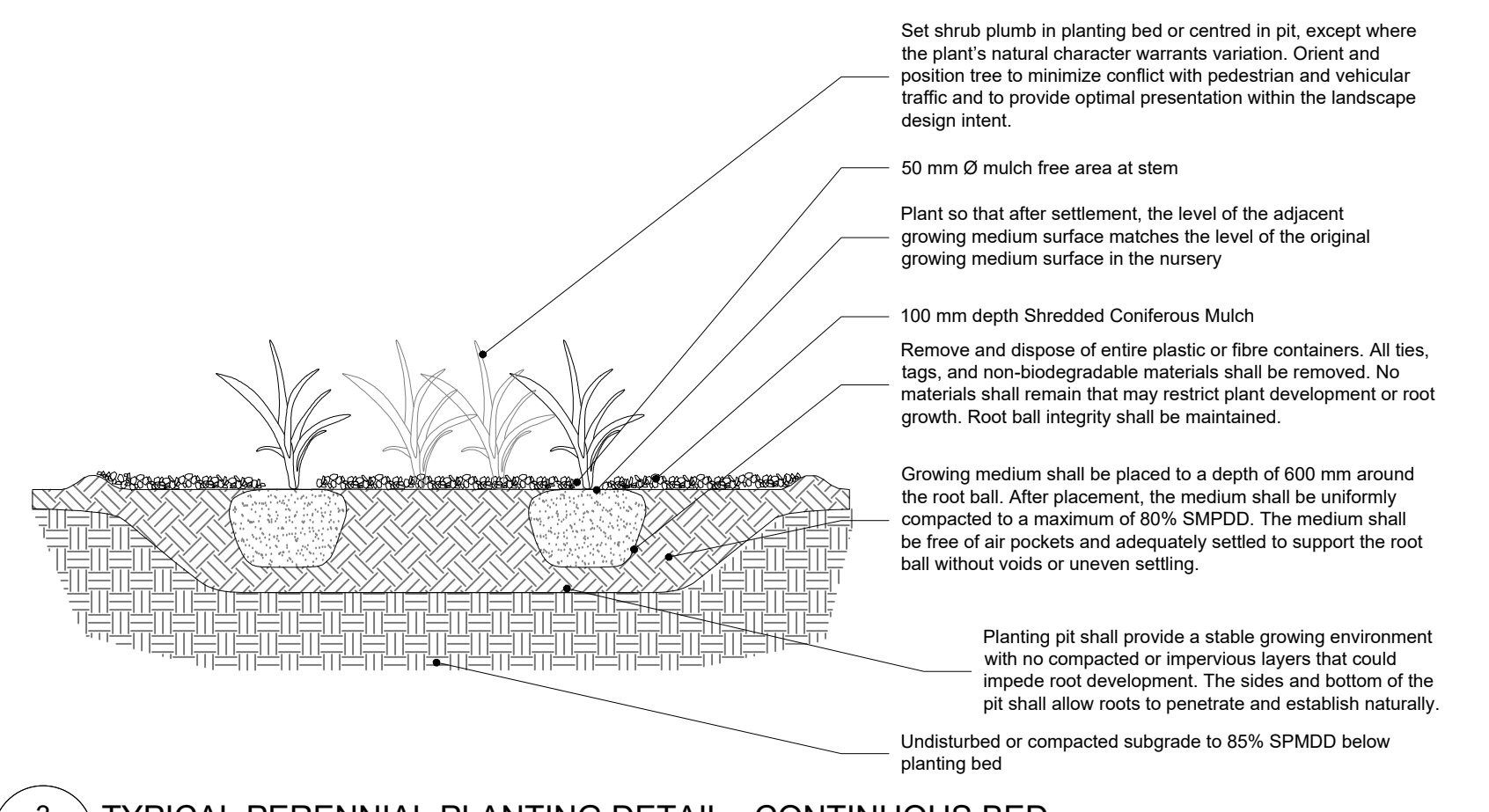
Caliper	Rootball Ø	Min. Pit Ø
40 mm	50 cm	1.8 m
50 mm	60 cm	2.1 m
60 mm	70 cm	2.4 m
70 mm	75 cm	2.7 m
80 mm	80 cm	3.0 m



1 TYPICAL DECIDUOUS TREE PLANTING DETAIL N.T.S.



2 TYPICAL SHRUB PLANTING DETAIL - CONTINUOUS SLOPED BED N.T.S.



3 TYPICAL PERENNIAL PLANTING DETAIL - CONTINUOUS BED N.T.S.

ABOUD & ASSOCIATES INC.  
Consulting Arborists • Ecologists • Landscape Architects

NORTH BAY  
ONTARIO • CANADA  
Just North. Enough to be PERFECT

TROUT LAKE ROAD RECONSTRUCTION

NEW CONSTRUCTION

TROUT LAKE ROAD LANDSCAPE DESIGN PLAN

Designer: MGN	Checked by: MGN
Date: 11/18/2025	Approved by: JR
Scale 1:250	
Drawing Number: L-1	Drawing Set: 30 of 30

File Location: S:\A\A Projects\2025\1. Approved Projects\25-265A Trout Lake Road Roundabout North Bay\Drawings\Xref\2026\03-20 from JL\RVACAD-33854-000-L1.rvt - Submission.dwg

PLOT DATE: Friday, March 27, 2026 12:42:30 PM