



227 11 Avenue SW - 3rd Floor  
Calgary AB T2R 1R9 Canada  
tel 403 270 5600  
[www.arcadis.com](http://www.arcadis.com)

# 338 AVE ROAD IMPROVEMENTS DETAILED DESIGN

ISSUED FOR 100% DESIGN  
2025-06-13

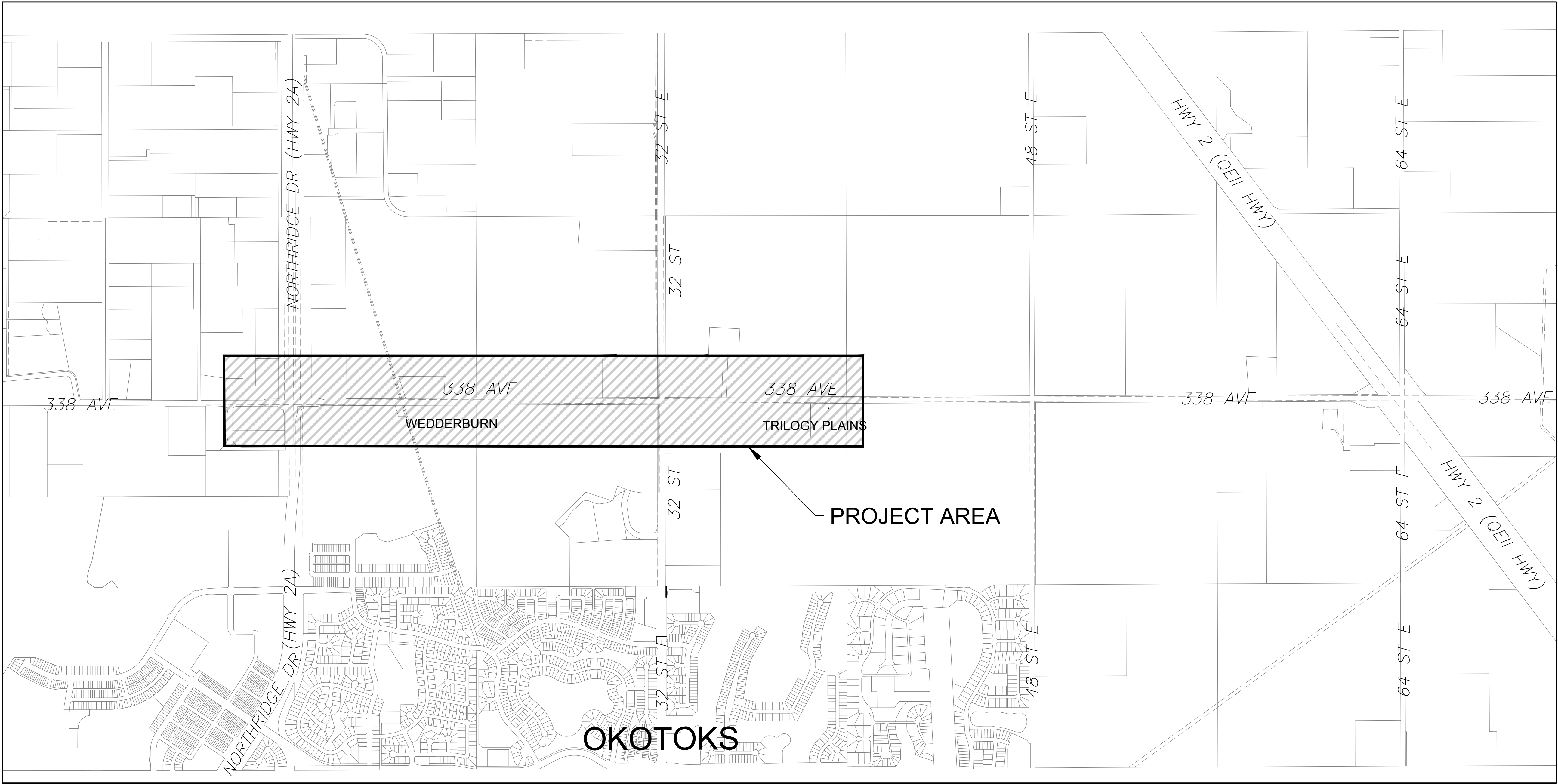
TENDER NUMBER:

ENGINEERING DRAWING NUMBER:

NOT FOR CONSTRUCTION



FILE: C:\USERS\ROD\GARJ\B31BDO\ACCDOS\ARCADIS ACC US\ACA-001\138875-338 AVE\PROJECT FILES\ PRODDOC7.03 DESIGN\04. CIVIL\SHEETS\138875-G002.DWG | DATE: June 13, 2025 11:30:50 AM



NOTES

1. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).

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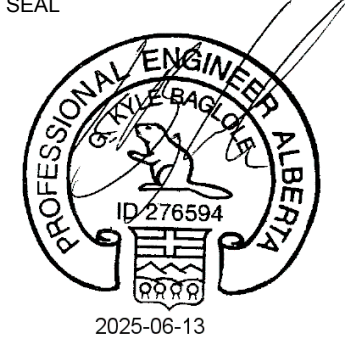
NAD 83  
COORDINATES

|     |                               |                      |    |      |
|-----|-------------------------------|----------------------|----|------|
|     |                               |                      |    |      |
| D   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| C   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| B   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |
| A   | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17           | KB | AH   |
| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |

PERMIT

**PERMIT TO PRACTICE**  
ARCADIS PROFESSIONAL SERVICES (CANADA) INC.  
RM SIGNATURE:   
RM APEGA ID #: **80331**  
DATE: **2025-06-13**  
**PERMIT NUMBER: P013381**  
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

SEAL



|          |    |                      |
|----------|----|----------------------|
|          | BY | DATE<br>(YYYY-MM-DD) |
| DESIGNED | DM | 2024-07-15           |
| DRAWN    | DM | 2024-07-15           |
| CHECKED  | KB | 2024-07-15           |

SCALE 1:10000 0 200 400 m



|                                                                                       |                               |                      |
|---------------------------------------------------------------------------------------|-------------------------------|----------------------|
| PROJECT<br><b>338 AVE ROAD IMPROVEMENTS<br/>DETAILED DESIGN</b><br><b>OKOTOKS, AB</b> |                               |                      |
| SHEET TITLE<br><b>LOCATION PLAN</b>                                                   |                               |                      |
| WORK ORDER NO.                                                                        | ACTIVITY NO.<br><b>138875</b> |                      |
| FILE NO.<br><b>138875-G002.dwg</b>                                                    | ENG DWG NO.                   |                      |
| SHEET ID.<br><b>G002</b>                                                              | SHEET NO.<br><b>2</b>         |                      |
|                                                                                       | BY                            | DATE<br>(YYYY-MM-DD) |
| DRAWN                                                                                 |                               | PROFILE NO.          |

ISC: SHEET SIZE ANSI D 25 mm



FILE: C:\USERS\ROD\GARJES1BDO\ACCDOS\ARCADIS ACC US\ACA-001\8875-338 AVE\PROJECT FILES\7\_PROD\DOC\7.03\_DESIGN\04\_CIVIL\SHEETS\138875-G003.DWG | DATE: June 13, 2025 11:30:37 AM

SHEET NO.    SHEET TITLE

000 SERIES (GENERAL)

|   |                                    |
|---|------------------------------------|
| 1 | COVER SHEET                        |
| 2 | LOCATION PLAN                      |
| 3 | INDEX                              |
| 4 | LEGEND AND ABBREVIATIONS           |
| 5 | KEY PLAN - 100 SERIES              |
| 6 | KEY PLAN - 200 SERIES & 400 SERIES |

100 SERIES (PLANS AND PLAN PROFILES)

|    |                               |
|----|-------------------------------|
| 7  | 338 AVE - STA 51+000 - 51+280 |
| 8  | 338 AVE - STA 51+200 - 51+420 |
| 9  | 338 AVE - STA 51+420 - 51+740 |
| 10 | 338 AVE - STA 51+740 - 52+060 |
| 11 | 338 AVE - STA 52+060 - 52+380 |
| 12 | 338 AVE - STA 52+380 - 52+700 |
| 13 | 338 AVE - STA 52+700 - 53+020 |
| 14 | 338 AVE - STA 53+020 - 53+340 |
| 15 | 338 AVE - STA 53+340 - 53+680 |
| 16 | 338 AVE - STA 53+620 - 53+780 |
| 17 | WEDDERBURN ROAD A             |
| 18 | WEDDERBURN ROAD B             |
| 19 | WEDDERBURN ROAD C             |
| 20 | WEDDERBURN ROAD D             |
| 21 | TRILOGY ROAD A                |
| 22 | TRILOGY ROAD B                |

200 SERIES (ELEVATIONS AND PROFILES)

|    |                                                                 |
|----|-----------------------------------------------------------------|
| 23 | PAVEMENT ELEVATIONS - NORTHGATE DR - STA 51+000 - NORTHRIDGE DR |
| 24 | PAVEMENT ELEVATIONS - 338 AVE - STA 51+200 - 51+440             |
| 25 | PAVEMENT ELEVATIONS - 338 AVE - STA 51+440 - 52+080             |
| 26 | PAVEMENT ELEVATIONS - 338 AVE - STA 52+080 - 52+720             |
| 27 | PAVEMENT ELEVATIONS - ROUNDABOUT - 1 OF 5 - WEST OF 32 ST       |
| 28 | PAVEMENT ELEVATIONS - ROUNDABOUT - 2 OF 5 - 338 AVE AND 32 ST   |
| 29 | PAVEMENT ELEVATIONS - ROUNDABOUT - 3 OF 5 - EAST OF 32 ST       |
| 30 | PAVEMENT ELEVATIONS - 338 AVE - STA 53+040 - 53+680             |
| 31 | PAVEMENT ELEVATIONS - ROUNDABOUT - 4 OF 5 - SOUTH OF 338 AVE    |
| 32 | PAVEMENT ELEVATIONS - ROUNDABOUT- 5 OF 5 - NORTH OF 338 AVE     |

300 SERIES (SECTIONS)

|    |                  |
|----|------------------|
| 33 | TYPICAL SECTIONS |
|----|------------------|

400 SERIES (LARGE-SCALE VIEWS)

|    |                                                              |
|----|--------------------------------------------------------------|
| 34 | PAVEMENT DETAILS - NORTHGATE DR - STA 51+000 - NORTHRIDGE DR |
| 35 | PAVEMENT DETAILS - 338 AVE - NORTHRIDGE DR - STA 51+440      |
| 36 | PAVEMENT DETAILS - 338 AVE - STA 51+440 - 52+080             |

SHEET  
SHEET ID. REVISION  
NO.

|      |   |    |
|------|---|----|
| G001 | D | 37 |
| G002 | D | 38 |
| G003 | D | 39 |
| G004 | D | 40 |
| G005 | D | 41 |
| G006 | D | 42 |
|      |   | 43 |
| P100 | D | 44 |
| P101 | D | 45 |
| P102 | D | 46 |
| P103 | D | 47 |
| P104 | D | 48 |
| P105 | D | 49 |
| P106 | D | 50 |
| P107 | D | 51 |
| P108 | D | 52 |
| P109 | C | 53 |
| P117 | D | 54 |
| P118 | D | 55 |
| P119 | D | 56 |
| P120 | D | 57 |
| P121 | D | 58 |
| P122 | D | 59 |
|      |   | 60 |
| C210 | C | 61 |
| C211 | D | 62 |
| C212 | D | 63 |
| C213 | D | 64 |
| C214 | D | 65 |
| C215 | D | 66 |
| C216 | D | 67 |
| C217 | D |    |
| C218 | D |    |
| C219 | D |    |
|      |   | 68 |
|      |   | 69 |
|      |   | 70 |
|      |   | 71 |
|      |   | 72 |
|      |   | 73 |
|      |   | 74 |
| C300 | D |    |
| C420 | C |    |
| C421 | C |    |
| C422 | C |    |

|    |                                                                  |      |   |
|----|------------------------------------------------------------------|------|---|
| 37 | PAVEMENT DETAILS - 338 AVE - STA 52+080 - 52+740                 | C423 | C |
| 38 | PAVEMENT DETAILS- 338 AVE - STA 52+740 - 53+360                  | C424 | C |
| 39 | PAVEMENT DETAILS - 338 AVE - STA 53+360 - 53+780                 | C425 | C |
| 40 | REMOVAL DETAILS - NORTHGATE DR - STA 51+000 - NORTHRIDGE DR      | C430 | C |
| 41 | REMOVAL DETAILS - 338 AVE - NORTHRIDGE DR - STA 51+440           | C431 | C |
| 42 | REMOVAL DETAILS - 338 AVE - STA 51+440 - 52+080                  | C432 | C |
| 43 | REMOVAL DETAILS - 338 AVE - STA 52+080 - 52+740                  | C433 | C |
| 44 | REMOVAL DETAILS - 338 AVE - STA 52+740 - 53+360                  | C434 | C |
| 45 | REMOVAL DETAILS - 338 AVE - STA 53+360 - 53+780                  | C435 | C |
| 46 | PAVEMENT MARKINGS & SIGNAGE - NORTHGATE DR to NORTHRIDGE DR      | C440 | C |
| 47 | PAVEMENT MARKINGS AND SIGNAGE-338 AVE -NORTHRIDGE DR- STA 51+440 | C441 | C |
| 48 | PAVEMENT MARKINGS AND SIGNAGE - 338 AVE - STA 51+440 - 52+080    | C442 | C |
| 49 | PAVEMENT MARKINGS AND SIGNAGE - 338 AVE - STA 52+080 - 52+740    | C443 | C |
| 50 | PAVEMENT MARKINGS AND SIGNAGE - 338 AVE - STA 52+740 - 53+360    | C444 | C |
| 51 | PAVEMENT MARKINGS AND SIGNAGE - 338 AVE - STA 53+360 - 53+780    | C445 | C |
| 52 | STORM SEWER PLAN - NORTHGATE DR - STA 51+000 - NORTHRIDGE DR     | C450 | C |
| 53 | STORM SEWER PLAN - 338 AVE - NORTHRIDGE DR - STA 51+440          | C451 | C |
| 54 | STORM SEWER PLAN - 338 AVE - STA 51+440 - 52+080                 | C452 | C |
| 55 | STORM SEWER PLAN - 338 AVE - STA 52+080 - 52+740                 | C453 | C |
| 56 | STORM SEWER PLAN - 338 AVE - STA 52+740 - 53+360                 | C454 | C |
| 57 | STORM SEWER PLAN - 338 AVE - STA 53+360 - 53+780                 | C455 | C |
| 58 | OVERLAND DRAINAGE PLAN - NORTHGATE DR - STA 51+000 - NORTHRIDGE  | C460 | B |
| 59 | OVERLAND DRAINAGE PLAN - 338 AVE - STA 51+200 - 51+440           | C461 | B |
| 60 | OVERLAND DRAINAGE PLAN - 338 AVE - STA 51+440 - 52+080           | C462 | B |
| 61 | OVERLAND DRAINAGE PLAN - 338 AVE - STA 52+080 - 52+720           | C463 | B |
| 62 | OVERLAND DRAINAGE PLAN - ROUNDABOUT - 1 OF 5 - WEST OF 32 ST     | C464 | B |
| 63 | OVERLAND DRAINAGE PLAN - ROUNDABOUT - 2 OF 5 - 338 AVE AND 32 ST | C465 | B |
| 64 | OVERLAND DRAINAGE PLAN - ROUNDABOUT - 3 OF 5 - EAST OF 32 ST     | C466 | B |
| 65 | OVERLAND DRAINAGE PLAN - 338 AVE - STA 53+040 - 53+680           | C467 | B |
| 66 | OVERLAND DRAINAGE PLAN - ROUNDABOUT - 4 OF 5 - SOUTH OF 338 AVE  | C468 | B |
| 67 | OVERLAND DRAINAGE PLAN - ROUNDABOUT - 5 OF 5 - NORTH OF 338 AVE  | C469 | B |

500 SERIES (DETAILS)

|    |                                                  |      |   |
|----|--------------------------------------------------|------|---|
| 68 | ROUNDABOUT FASTEST PATH (EB & WB PATHS)          | C500 | B |
| 69 | ROUNDABOUT FASTEST PATH (NB & SB PATHS)          | C501 | B |
| 70 | ROUNDABOUT SSD CALCULATIONS                      | C502 | B |
| 71 | ROUNDABOUT SSD CALCULATIONS                      | C503 | B |
| 72 | ROUNDABOUT SSD & ISD SECTIONS (EB & NB APPROACH) | C504 | B |
| 73 | ROUNDABOUT SSD & ISD SECTIONS (SB & WB APPROACH) | C505 | B |
| 74 | LID DETAILS                                      | C510 | B |

NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING G003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPERATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.

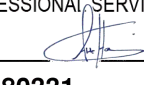
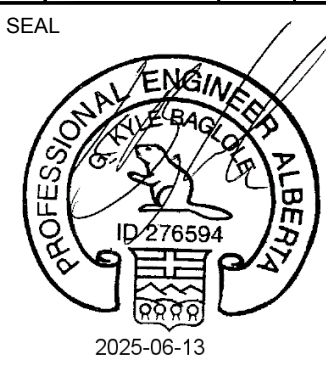
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NAD 83  
COORDINATES

|                                                                                                                                                                                                                                                                                                                                                   |                               |                                                                                                  |             |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------|-------------|------|
|                                                                                                                                                                                                                                                                                                                                                   |                               |                                                                                                  |             |      |
| D                                                                                                                                                                                                                                                                                                                                                 | ISSUED FOR 100% DESIGN        | 2025-06-13                                                                                       | KB          | AH   |
| C                                                                                                                                                                                                                                                                                                                                                 | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30                                                                                       | KB          | AH   |
| B                                                                                                                                                                                                                                                                                                                                                 | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22                                                                                       | KB          | AH   |
| A                                                                                                                                                                                                                                                                                                                                                 | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17                                                                                       | KB          | AH   |
| NO.                                                                                                                                                                                                                                                                                                                                               | DESCRIPTION                   | DATE<br>(YYYY-MM-DD)                                                                             | BY          | APPD |
| PERMIT                                                                                                                                                                                                                                                                                                                                            |                               | SEAL                                                                                             |             |      |
| <div>PERMIT TO PRACTICE<br/>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br/>RM SIGNATURE: <br/>RM APEGA ID #: 80331<br/>DATE: 2025-06-13<br/>PERMIT NUMBER: P013381<br/>The Association of Professional Engineers and Geoscientists of Alberta (APEGA)</div> |                               | <div></div> |             |      |
|                                                                                                                                                                                                                                                                                                                                                   | BY                            | DATE<br>(YYYY-MM-DD)                                                                             |             |      |
| DESIGNED                                                                                                                                                                                                                                                                                                                                          | DM                            | 2024-07-15                                                                                       |             |      |
| DRAWN                                                                                                                                                                                                                                                                                                                                             | DM                            | 2024-07-15                                                                                       |             |      |
| CHECKED                                                                                                                                                                                                                                                                                                                                           | KB                            | 2024-07-15                                                                                       |             |      |
| SCALE                                                                                                                                                                                                                                                                                                                                             |                               |                                                                                                  |             |      |
|                                                                                                                                                                                                                                                                                                                                                   |                               |                                                                                                  |             |      |
| <div></div>                                                                                                                                                                                                                                                  |                               |                                                                                                  |             |      |
| PROJECT<br>338 AVE ROAD IMPROVEMENTS<br>DETAILED DESIGN<br>OKOTOKS, AB                                                                                                                                                                                                                                                                            |                               |                                                                                                  |             |      |
| SHEET TITLE<br>INDEX                                                                                                                                                                                                                                                                                                                              |                               |                                                                                                  |             |      |
|                                                                                                                                                                                                                                                                                                                                                   |                               |                                                                                                  |             |      |
| WORK ORDER NO.                                                                                                                                                                                                                                                                                                                                    |                               | ACTIVITY NO.<br>138875                                                                           |             |      |
| FILE NO.<br>138875-G003.dwg                                                                                                                                                                                                                                                                                                                       |                               | ENG DWG NO.                                                                                      |             |      |
| SHEET ID.<br>G003                                                                                                                                                                                                                                                                                                                                 |                               | SHEET NO.<br>3                                                                                   |             |      |
|                                                                                                                                                                                                                                                                                                                                                   | BY                            | DATE<br>(YYYY-MM-DD)                                                                             | PROFILE NO. |      |
| DRAWN                                                                                                                                                                                                                                                                                                                                             |                               |                                                                                                  |             |      |



LEGEND

GENERAL

|  |                                                      |
|--|------------------------------------------------------|
|  | FUTURE ROADWAY (CURB & GUTTER)                       |
|  | ROADWAY (CURB & GUTTER)                              |
|  | ROUNDAOUT MEDIAN AND CURB & GUTTER                   |
|  | DITCH AND FLOW DIRECTION                             |
|  | GRAVEL EDGE                                          |
|  | LANE LINE                                            |
|  | PAINT LINE                                           |
|  | YIELD PAINT LINE (0.60m WIDE)                        |
|  | STOP PAINT LINE (0.60m WIDE)                         |
|  | TRAFFIC DIRECTION PAVEMENT MARKINGS                  |
|  | WHEELCHAIR RAMP                                      |
|  | TREE                                                 |
|  | TRAFFIC POLE                                         |
|  | STREET LIGHT/TRAFFIC POLE                            |
|  | STREET LIGHT POLE                                    |
|  | 'BEEHIVE' CATCH BASIN                                |
|  | CATCH BASIN                                          |
|  | CURB INLET                                           |
|  | TYPE 5A MANHOLE                                      |
|  | TYPE 1S MANHOLE                                      |
|  | PLUGCAP                                              |
|  | STORM PIPE AND FLOW DIRECTION                        |
|  | CULVERT                                              |
|  | SWALE HIGH POINT                                     |
|  | POWER POLE                                           |
|  | ANCHOR                                               |
|  | PED / TRANSFORMER / CABINET                          |
|  | BOLLARD                                              |
|  | EX SIGN                                              |
|  | 9.1m GALVANIZED STEEL DOUBLE DAVIT POLE              |
|  | C/W ROADWAY FIXTURE                                  |
|  | 6.0m (20') GALVANIZED STEEL ROUND STEEL TAPERED POLE |
|  | C/W PEDESTRIAN FIXTURE                               |
|  | 9.1m GALVANIZED STEEL SINGLE DAVIT POLE              |
|  | C/W ROADWAY FIXTURE AND PEDESTRIAN FIXTURE           |
|  | 9.1m GALVANIZED STEEL SINGLE DAVIT POLE              |
|  | C/W ROADWAY FIXTURE                                  |
|  | FENCE                                                |
|  | FORTIS OVERHEAD POWER LINE (SURVEYED)                |
|  | UNDERGROUND ELECTRICAL LINE                          |
|  | ABADATA HIGH PRESSURE GAS LINE                       |
|  | ATCO INTERMEDIATE PRESSURE GAS LINE                  |
|  | GAS LINE (SURVEYED)                                  |
|  | ABADATA LOW PRESSURE GAS LINE                        |
|  | ATCO HIGH GAS LINE ABANDONED                         |
|  | TELUS UNDERGROUND COMMUNICATION LINE (SURVEYED)      |
|  | TELUS UNDERGROUND COMMUNICATION LINE                 |
|  | ALBERTA SUPERNET FIBRE OPTIC LINE (SURVEYED)         |

REMOVALS

|  |                                                                                     |
|--|-------------------------------------------------------------------------------------|
|  | STRIPPING                                                                           |
|  | CONCRETE REMOVAL                                                                    |
|  | ASPHALT REMOVAL<br>(FULL PAVEMENT STRUCTURE DEPTH)                                  |
|  | ASPHALT MILLING (40mm DEPTH)                                                        |
|  | GRAVEL REMOVAL                                                                      |
|  | CURB AND GUTTER REMOVAL                                                             |
|  | POLE REMOVAL (BY OTHERS)                                                            |
|  | PED / TRANSFORMER / CABINET REMOVAL (BY OTHERS)                                     |
|  | SIGN REMOVAL<br>(REFER TO REMOVAL DETAILS DRAWINGS FOR EXISTING ROAD SIGN REMOVALS) |
|  | CULVERT REMOVAL<br>TREE TO BE EVALUATED BY TOWN OF OKOTOKS TO DETERMINE REMOVAL     |

PAVEMENT

|  |                                                          |
|--|----------------------------------------------------------|
|  | LANDSCAPE / URBAN DESIGN<br>(REFER TO LANDSCAPING PLANS) |
|  | CONCRETE                                                 |
|  | NEW PAVEMENT STRUCTURE                                   |
|  | ASPHALT OVERLAY (40mm DEPTH)                             |
|  | GRAVEL                                                   |

STORM PLANS

|  |                        |
|--|------------------------|
|  | SUB-CATCHMENT BOUNDARY |
|  | SUBCATCHMENT AREA ID   |
|  | AREA (Ha)              |
|  | IMPERVIOUSNESS (%)     |

PAVEMENT MARKINGS

|  |                                        |
|--|----------------------------------------|
|  | WHITE SOLID LINE                       |
|  | EDGE LINES                             |
|  | LANE LINES PROHIBITING<br>LANE CHANGES |
|  | WHITE BROKEN                           |
|  | LANE LINES                             |
|  | RA-1 STOP                              |
|  | RA-2 YIELD                             |
|  | RA-3 SCHOOL CROSSING                   |
|  | RA-4 PEDESTRIAN CROSSING               |
|  | RB-1 SPEED LIMIT                       |
|  | RB-24 TWO WAY TRAFFIC                  |
|  | RB-25 KEEP RIGHT                       |
|  | RB-41L LEFT TURN ONLY                  |
|  | RB-41R RIGHT TURN ONLY                 |
|  | RB-42L STRAIGHT THROUGH OR TURN LEFT   |
|  | RB-42R STRAIGHT THROUGH OR TURN RIGHT  |
|  | RB-51 NO PARKING                       |
|  | RB-55 NO STOPPING                      |
|  | WA-8A CHECKERBOARD - DEAD END          |
|  | WA-8A BI DIRECTIONAL CHECKERBOARD      |
|  | WA-8B NO EXIT                          |
|  | WA-36L HAZARD MARKER - LEFT            |
|  | WA-36 HAZARD MARKER - CENTER           |
|  | WA-36R HAZARD MARKER - RIGHT           |

ROUNDAOUT FASTEST PLAN

|  |                 |
|--|-----------------|
|  | PATH START      |
|  | THROUGH PATH    |
|  | LEFT TURN PATH  |
|  | RIGHT TURN PATH |
|  | FASTEST PATH    |

STANDARD SPECIFICATIONS

|                                               |              |
|-----------------------------------------------|--------------|
| TOWN OF OKOTOKS                               |              |
| OKOTOKS MANHOLE COVER .....                   | SHEET NO. 2  |
| CITY OF CALGARY                               |              |
| CONCRETE BARRIER TRANSITION END SECTION ..... | 454.1001.011 |
| 0.25 STD C&G / 0.25 STD C&G .....             | 454.1003.016 |
| SEPARATE SIDEWALK .....                       | 454.1013.003 |
| WHEELCHAIR RAMP MONOWALK .....                | 454.1013.001 |
| TYPICAL ASPHALT PAVEMENT STRUCTURE .....      | 454.1005.009 |
| TRAFFIC ISLAND WITH RAMPS .....               | 454.1009.005 |

PROJECT NOTES

- WORK WITHIN 6m OF PUBLIC TREES REQUIRES TOWN APPROVAL.
- CLASS "A" CONCRETE IS REQUIRED FOR ALL CURBS, GUTTERS AND WALKS UNLESS OTHERWISE NOTED.
- PROPOSED METRIC FACE OF CURB TO TRANSITION TO LINE UP WITH EXISTING IMPERIAL FACE OF CURB. TIE LIP OF GUTTERS.
- CONTRACTORS SHALL BE RESPONSIBLE FOR ANY INTRUSION OR DAMAGES THAT MAY OCCUR TO BUILDINGS, FENCING, PLANTINGS, LANDSCAPING, ETC., WITHIN THE CONSTRUCTION PERIOD AND APPROPRIATE WARRANTY PERIOD THEREAFTER.
- ELEVATIONS HAVE BEEN TRUNCATED BY 1100.
- SEE DETAIL A ON DRAWING C510 (TROJAN INDUSTRIES INC. FLOW THROUGH SIDE INLET I200 OR APPROVED EQUIVALENT)
- SEE DETAIL B ON DRAWING C510 (TROJAN INDUSTRIES INC. TF-50 BEEHIVE GRATE D&L OR APPROVED EQUIVALENT)

|      |                                 |
|------|---------------------------------|
| A    |                                 |
| @    | AT                              |
| A    | ARC                             |
| A    | ARC LENGTH                      |
| A    | ASPHALT                         |
| AAV  | AUTOMATIC AIR VALVE             |
| AR/W | ACCESS RIGHT OF WAY             |
| AB   | ABANDONED                       |
| ABUT | ABUTMENT                        |
| AO   | ACCESS OPENING                  |
| AR/W | ACCESS RIGHT-OF-WAY             |
| AR   | AIR RELEASE MANHOLE             |
| AR   | AREA                            |
| ASCM | ALBERTA SURVEY CONTROL MONUMENT |
| AV   | AVENUE                          |
| AW   | ASPHALT WALK                    |

|      |                                  |
|------|----------------------------------|
| B    |                                  |
| BC   | BEGINNING OF CURVE               |
| BDY  | BOUNDARY                         |
| BED  | BEDDING                          |
| BLDG | BUILDING                         |
| BLK  | BLOCK                            |
| BM   | BENCH MARK                       |
| BOA  | ALIGNMENT BEGINNING              |
| BOC  | BACK OF CURB                     |
| BP   | BICYCLE PATH                     |
| BP   | BLOCK PROFILE                    |
| BR   | BIKE RAMP                        |
| BRG  | BEARING                          |
| BTM  | BOTTOM                           |
| BTWN | BETWEEN                          |
| BVC  | BEGINNING VERTICAL TANGENT-CURVE |
| BVCE | INTERSECT                        |
| BVCE | BEGINNING VERTICAL TANGENT-CURVE |
| BVCE | INTERSECT ELEVATION              |
| BVCS | BEGINNING VERTICAL TANGENT-CURVE |
| BVCS | INTERSECT STATION                |
| BW   | BACK OF WALK                     |

|         |                                   |
|---------|-----------------------------------|
| C       |                                   |
| C       | CABLE TELEVISION                  |
| C&G     | CURB AND GUTTER                   |
| CAP     | CAPACITY                          |
| CB      | CATCH BASIN                       |
| C BEND  | COMBINED BEND                     |
| CBM     | CITY BENCH MARK                   |
| CD      | CORNER DETAIL                     |
| CH      | CHORD                             |
| CI      | CAST IRON                         |
| CL      | CENTRE LINE                       |
| CL      | CLASS                             |
| CL      | CLOSE                             |
| CLF     | CHAIN LINK FENCE                  |
| CKR, CK | CREEK                             |
| cm      | CENTIMETRE                        |
| CNR     | CANADIAN NATIONAL RAILWAY         |
| CMP     | CORRUGATED METAL PIPE             |
| CO      | CLEAN OUT                         |
| COMB    | COMBINATION                       |
| COMM    | COMMUNICATION                     |
| CON     | CONCRETE                          |
| COND    | CONDUIT                           |
| CONSTR  | CONSTRUCTION                      |
| COR     | CORNER                            |
| CP      | CATHODIC PROTECTION               |
| CPLG    | COUPLING                          |
| CPR     | CANADIAN PACIFIC RAILWAY          |
| CS      | CURVE TO SPIRAL                   |
| CSA     | CANADIAN STANDARDS ASSOCIATION    |
| CU      | COPPER                            |
| CULV    | CULVERT                           |
| CV      | CHECK VALVE                       |
| CVI     | CHECK VALVE IN-LINE - IN PIPE     |
| CVS     | CHECK VALVE PIPELINE - IN MANHOLE |
| C/W     | COMPLETE WITH                     |
| CW      | CURB WALL                         |
| CW      | CONCRETE WALK                     |
| X-FALL  | CROSSFALL                         |
| X-SEC   | CROSS SECTION                     |

|        |                   |
|--------|-------------------|
| D      |                   |
| D      | DITCH             |
| D      | DIVERSION MANHOLE |
| dam    | DECAMETRE         |
| DB     | DIRECT BURIED     |
| DB     | DOUBLE BARREL     |
| DBM    | DEEP BENCH MARK   |
| DEC    | DESCRIPTION       |
| DEF'L  | DEFLECTION        |
| DEG, ° | DEGREE            |
| DEPT   | DEPARTMENT        |
| DES C  | DESIGN QUOTIENT   |
| DEST   | DESTROYED         |
| DFC    | DEEP FACED CURB   |
| DGB    | DEEP GRAVEL BASE  |

|        |                             |
|--------|-----------------------------|
| DIA, Ø |                             |
| DIM    | DIMENSION                   |
| DIS    | DISSIPATING                 |
| DIST   | DISTANCE                    |
| DIST   | DISTRIBUTION                |
| DL, Δ  | DELTA                       |
| dm     | DECIMETRE                   |
| dm³/s  | DECIMETRES CUBED PER SECOND |
| DR     | DRIVE                       |
| DWG    | DRAWING                     |
| DWY    | DRIVEWAY                    |

|      |                            |
|------|----------------------------|
| E    |                            |
| E    | EAST/EASTING               |
| EB   | EAST BOUND                 |
| EC   | END OF CURVE               |
| EP   | EDGE OF PAVEMENT           |
| ELEV | ELEVATION                  |
| ENC  | ENCASEMENT                 |
| ENG  | ENGINEER                   |
| EOA  | END OF ALIGNMENT           |
| EOG  | EDGE OF GRAVEL             |
| EOP  | EDGE OF PAVEMENT           |
| EVC  | END VERTICAL TANGENT-CURVE |
| EVC  | INTERSECT                  |
| EVC  | END VERTICAL TANGENT-CURVE |
| EVC  | INTERSECT ELEVATION        |
| EVC  | END VERTICAL TANGENT-CURVE |
| EVC  | INTERSECT STATION          |
| EVC  | EXISTING                   |

|     |                   |
|-----|-------------------|
| F   |                   |
| FDP | FULL DEPTH PAVING |
| FG  | FLOOD GATE        |
| FLG | FLANGE            |
| FLP | FIRST LIFT PAVED  |
| FM  | FEEDERMAIN        |
| FM  | FORCE MAIN        |
| FN  | FIELD NOTES       |
| F/O | FIBRE OPTIC       |
| FOC | FACE OF CURB      |
| FLR | FACE OF WALK      |
| FTG | FOOTING           |
| FUT | FUTURE            |

|      |                     |
|------|---------------------|
| G    |                     |
| G    | GAS                 |
| GALV | GALVANIZED          |
| GAR  | GARAGE              |
| GG   | GRADED AND GRAVELED |
| GI   | GALVANIZED IRON     |
| GT   | GRATED TOP MANHOLE  |

|      |                                 |
|------|---------------------------------|
| H    |                                 |
| H    | HEIGHT                          |
| ha   | HECTARE                         |
| HBL  | HORIZONTAL BEND LEFT            |
| HBR  | HORIZONTAL BEND RIGHT           |
| HC   | HORIZONTAL CURVE                |
| hm   | HECTOMETRE                      |
| HP   | HIGH POINT                      |
| HPN  | HIGH PRECISION CONTROL MONUMENT |
| HOR  | HORIZONTAL                      |
| HOSP | HOSPITAL                        |
| HWY  | HIGHWAY                         |
| HYD  | HYDRANT                         |

|        |                                   |
|--------|-----------------------------------|
| I      |                                   |
| IB     | INBOUND                           |
| IC     | INLET CHAMBER                     |
| ICD    | INLET CONTROL DEVICE              |
| I/O    | INLET/OUTLET STRUCTURE (DRY POND) |
| INC    | INCREASER                         |
| ID     | INSIDE DIAMETRE                   |
| INSITU | INSITUFORM                        |
| INS    | INSULATE                          |
| IS     | INTAKE STRUCTURE                  |
| IS     | INTERMEDIATE SIGHT                |
| INT    | INTERSECTION                      |
| INV    | INVERT                            |
| I      | IRON BAR                          |
| IP     | IRON PIN                          |
| ISO    | ISOLATE                           |

|    |       |
|----|-------|
| J  |       |
| JT | JOINT |

|      |                     |
|------|---------------------|
| K    |                     |
| K    | CURVE COEFFICIENT   |
| KG   | KILOGRAM            |
| km   | KILOMETRES          |
| km/h | KILOMETRES PER HOUR |

ABBREVIATIONS

|         |                             |
|---------|-----------------------------|
| L       |                             |
| L, LGTH | LENGTH                      |
| L       | LEAD                        |
| LC      | LENGTH OF CURVE             |
| LG      | LIP OF GUTTER               |
| LGE     | LIP OF GUTTER EAST          |
| LGM     | LIP OF GUTTER MEDIAN        |
| LGN     | LIP OF GUTTER NORTH         |
| LGS     | LIP OF GUTTER SOUTH         |
| LGW     | LIP OF GUTTER WEST          |
| LHV     | LEFT HAND VALVE             |
| LP      | LOW POINT                   |
| LP C&G  | LOW PROFILE CURB AND GUTTER |
| LS      | LIFT STATION                |
| LS      | LIGHT STANDARD              |
| LRT     | LIGHT RAIL TRANSIT          |

|      |                     |
|------|---------------------|
| M    |                     |
| m    | METER               |
| M    | MERIDIAN            |
| M    | METRE               |
| M    | MONITORING MANHOLE  |
| MAX  | MAXIMUM             |
| MC   | METER CHAMBER       |
| MED  | MEDIAN              |
| MH   | MANHOLE             |
| MHR  | MANHOLE RIM         |
| MM   | MILLIMETRE          |
| MIN  | MINIMUM             |
| MIN  | MINUTES             |
| MONO | MONOLITHIC SIDEWALK |
| MON  | MONUMENT            |
| MP   | METER PIT           |
| M/S  | METRES PER SECOND   |
| MS   | METERING STATION    |
| MV   | MAIN VALVE          |
| MUP  | MULTI USE PATHWAY   |

|       |                 |
|-------|-----------------|
| N     |                 |
| N     | NORTH/NORTHING  |
| NE    | NORTH EAST      |
| NB    | NORTH BOUND     |
| NIC   | NOT IN CONTRACT |
| N/S   | NORTH SIDE      |
| NO, # | NUMBER          |
| NW    | NORTH WEST      |

|         |                                |
|---------|--------------------------------|
| O       |                                |
| O/C, OC | ON CENTRE                      |
| OC      | OUTLET CHAMBER                 |
| OD      | OUTSIDE DIAMETRE               |
| OH      | OVERHEAD                       |
| ODR/W   | OVERLAND DRAINAGE RIGHT-OF-WAY |

|        |                                |
|--------|--------------------------------|
| P      |                                |
| P      | PIPE                           |
| PA     | PARSON INSERT                  |
| PB     | PULL BOX                       |
| PAR.   | PARALLEL                       |
| PC     | TANGENT-CURVE INTERSECT        |
| PCC    | COMPOUND CURVE-CURVE INTERSECT |
| /      | PER                            |
| %      | PERCENT                        |
| PE     | POLYETHYLENE                   |
| PERF   | PERFORATED                     |
| PI     | TANGENT-TANGENT INTERSECT      |
| PPVC   | PERFORATED POLYVINYL CHLORIDE  |
| PKS    | PARK SERVICE                   |
| PKWY   | PARKWAY                        |
| PK     | PLANK                          |
| PL     | PADLOCKED MANHOLE              |
| PL     | PLACE                          |
| PL     | PLACED                         |
| PLAN   | PLAN                           |
| PL     | PROPERTY LINE                  |
| PP     | PLASTIC PLUGS                  |
| PP     | PLAN & PROFILE                 |
| PP     | POWER POLE                     |
| PR     | PRIVATE                        |
| PRC    | REVERSE CURVE-CURVE INTERSECT  |
| PREFAB | PREFABRICATED                  |
| PROP   | PROPOSED (BY OTHERS)           |
| PRV    | PRESSURE REDUCING VALVE        |
| PS     | PUMP STATION                   |
| PT     | CURVE-TANGENT INTERSECT        |
| PVC    | POLYVINYL CHLORIDE             |
| PVI    | POINT OF VERTICAL INTERSECTION |
| PVMT   | PAVEMENT                       |
| PZ     | PRESSURE ZONE                  |

|     |          |
|-----|----------|
| Q   |          |
| QTY | QUANTITY |
| R   |          |
| R   | RADIUS   |
| R   | RIGHT    |
| R   | ROLLED   |

|          |                  |
|----------|------------------|
| RD       |                  |
| RD       | ROAD             |
| RED      | REDUCER          |
| REG'D PL | REGISTERED PLAN  |
| REIN     | REINFORCED       |
| RELO     | RELOCATION       |
| REPL     | REPLACEMENT      |
| RES      | RESERVOIR        |
| RES      | RESTORED         |
| REV      | REVERSE          |
| RGE      | RANGE            |
| RHV      | RIGHT HAND VALVE |
| ROW, R/W | RIGHT-OF-WAY     |
| RW       | RAW WATER        |
| RWY      | RAILWAY          |

|      |                             |
|------|-----------------------------|
| S    |                             |
| S    | SANITARY                    |
| S    | SEALED MANHOLE              |
| S    | SLOPE                       |
| S    | SOUTH                       |
| SB   | SOUTH BOUND                 |
| SC   | SPIRAL TO CURVE             |
| SD   | STORM                       |
| SE   | SOUTH EAST                  |
| SEC  | SECOND                      |
| SEC  | SECTION                     |
| SEP  | SEPARATE WALK               |
| SERV | SERVICE                     |
| SG   | SAFETY GATE                 |
| SHT  | SHEET                       |
| SPEC | SPECIFICATIONS              |
| SQ   | SQUARE                      |
| SRS  | SPIRAL TO REVERSE SPIRAL    |
| S/S  | SOUTH SIDE                  |
| ST   | SHORT TANGENT               |
| ST   | SPIRAL TO TANGENT           |
| ST   | STEEL                       |
| ST   | STREET                      |
| STA  | STATION                     |
| STC  | STROMCEPTOR MANHOLE         |
| STD  | STANDARD                    |
| STR  | STRUCTURE                   |
| SRC  | SULPHATE RESISTANT CONCRETE |
| SW   | SWALE                       |
| SWP  | SIDEWALK PROFILE            |
| SW   | SOUTH WEST                  |
| SYM  | SYMBOL                      |

|       |                   |
|-------|-------------------|
| T     |                   |
| T     | TANGENT           |
| T     | TELEPHONE (TELUS) |
| TB    | THRUST BLOCK      |
| TC    | TRAFFIC CONTROL   |
| TEMP  | TEMPORARY         |
| TMH   | TEST MANHOLE      |
| TOC   | TOP OF CURB       |
| TOP   | TOP OF PIPE       |
| TOR   | TOP OF RAIL       |
| TRANS | TRANSFORMER       |
| TS    | TANGENT TO SPIRAL |
| TT    | TANGENT TYPE      |
| TV    | TAPPING VALVE     |
| TWP   | TOWNSHIP          |
| TYP   | TYPICAL           |

|         |                      |
|---------|----------------------|
| U       |                      |
| UC      | UNDER CONSTRUCTION   |
| UG, U/G | UNDERGROUND          |
| UNK     | UNKNOWN              |
| UPG     | UPGRADE              |
| UR/W    | UTILITY RIGHT-OF-WAY |

|      |                                |
|------|--------------------------------|
| V    |                                |
| V    | VALVE                          |
| VBD  | VERTICAL BEND DOWN             |
| VBU  | VERTICAL BEND UP               |
| VC   | VALVE CHAMBER                  |
| VC   | VERTICAL CURVE                 |
| VEL  | VELOCITY                       |
| VERT | VERTICAL                       |
| VOL  | VOLUME                         |
| VPI  | VERTICAL POINT OF INTERSECTION |

|     |                    |
|-----|--------------------|
| W   |                    |
| W   | WATER              |
| W   | WEST               |
| W   | WIDTH              |
| WB  | WEST BOUND         |
| WCR | WHEEL CHAIR RAMP   |
| WMH | WEIR MANHOLE       |
| WTD | WEEPING TILE DRAIN |
| WT  | WEIGHT             |
| W/S | WEST SIDE          |
| W/W | WALKWAY            |
| WW  | WATERWORKS         |

NOTES

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- REFER TO LEGEND DRAWING G004 FOR SURFACE AND LINE DESCRIPTIONS.
- WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPERATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
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- REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
- PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
- CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.

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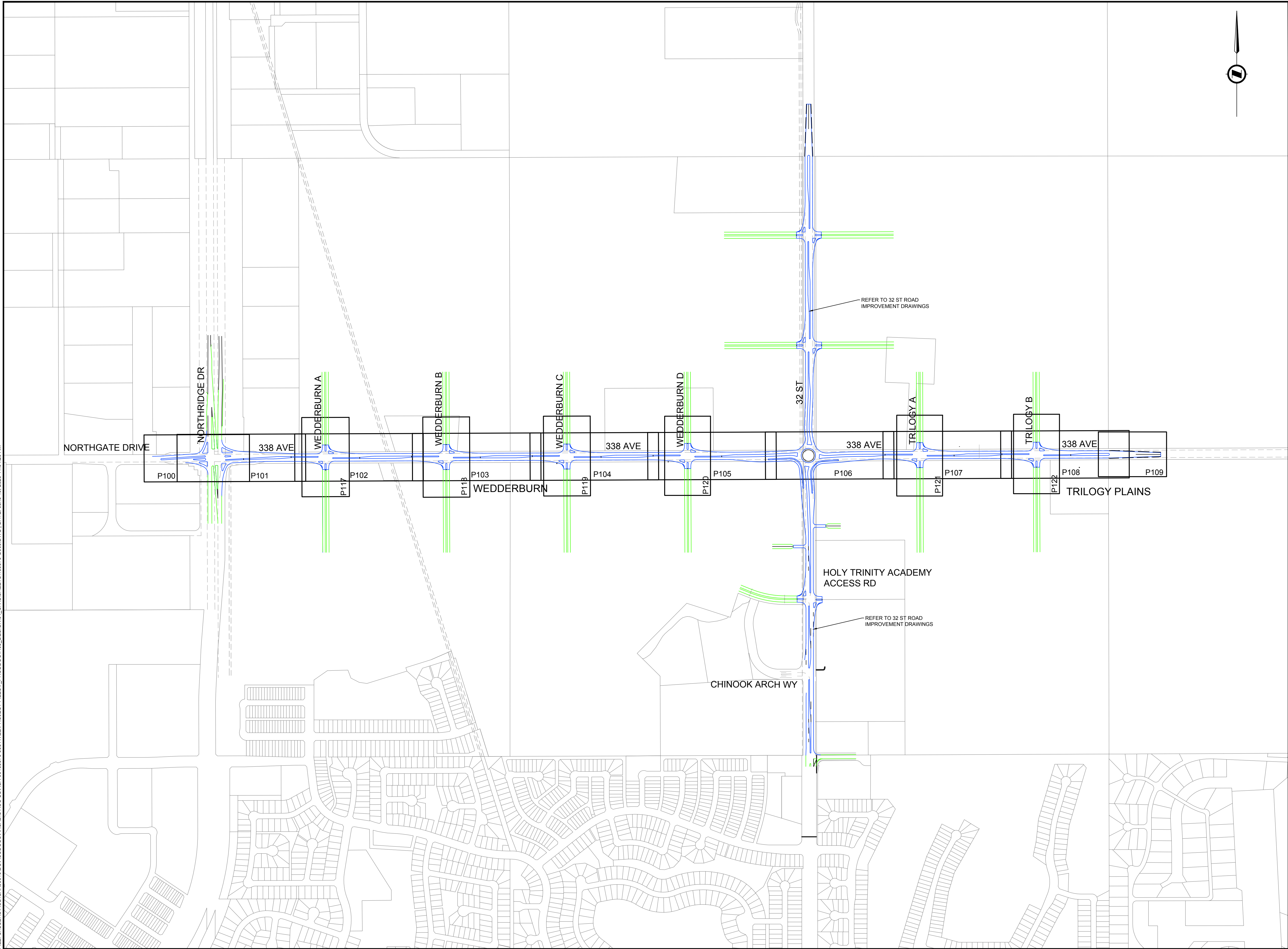


NAD 83  
COORDINATES

|     |                               |                      |    |      |
|-----|-------------------------------|----------------------|----|------|
|     |                               |                      |    |      |
| D   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| C   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| B   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |
| A   | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17           | KB | AH   |
| NO. | DESCRIPTION                   | DATE<br>(mm/dd/yyyy) | BY | APPD |



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6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|
| PERMIT                                                                                                                                                                                                                                                                                       |  | SEAL |
| <b>PERMIT TO PRACTICE</b><br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE: _____<br>RM APEGA ID #: <b>80331</b><br>DATE: <b>2025-06-13</b><br><b>PERMIT NUMBER: P013381</b><br><small>The Association of Professional Engineers and Geoscientists of Alberta (APEGGA)</small> |  |      |

|          |    |                      |
|----------|----|----------------------|
|          | BY | DATE<br>(YYYY-MM-DD) |
| DESIGNED | DM | 2024-07-15           |
| DRAWN    | DM | 2024-05-15           |
| CHECKED  | KB | 2024-05-15           |

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|                                                                                       |                               |             |
|---------------------------------------------------------------------------------------|-------------------------------|-------------|
| PROJECT<br><b>338 AVE ROAD IMPROVEMENTS<br/>DETAILED DESIGN</b><br><b>OKOTOKS, AB</b> |                               |             |
| SHEET TITLE<br><b>KEY PLAN<br/>100 SERIES</b>                                         |                               |             |
| WORK ORDER NO.                                                                        | ACTIVITY NO.<br><b>138875</b> |             |
| FILE NO.<br><b>138875-G005.dwg</b>                                                    | ENG DWG NO.                   |             |
| SHEET ID.<br><b>G005</b>                                                              | SHEET NO.<br><b>5</b>         |             |
| BY                                                                                    | DATE<br>(YYYY-MM-DD)          | PROFILE NO. |
| DRAWN                                                                                 |                               |             |



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DATE: **2025-06-13**  
**PERMIT NUMBER: P013381**  
The Association of Professional Engineers and Geoscientists of Alberta (APEGGA)

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|          | BY | DATE<br>(YYYY-MM-DD) |
| DESIGNED | DM | 2024-07-15           |
| DRAWN    | DM | 2024-07-15           |
| CHECKED  | KB | 2024-07-15           |

SCALE  
1:5000

PROJECT  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTAKS, AB**

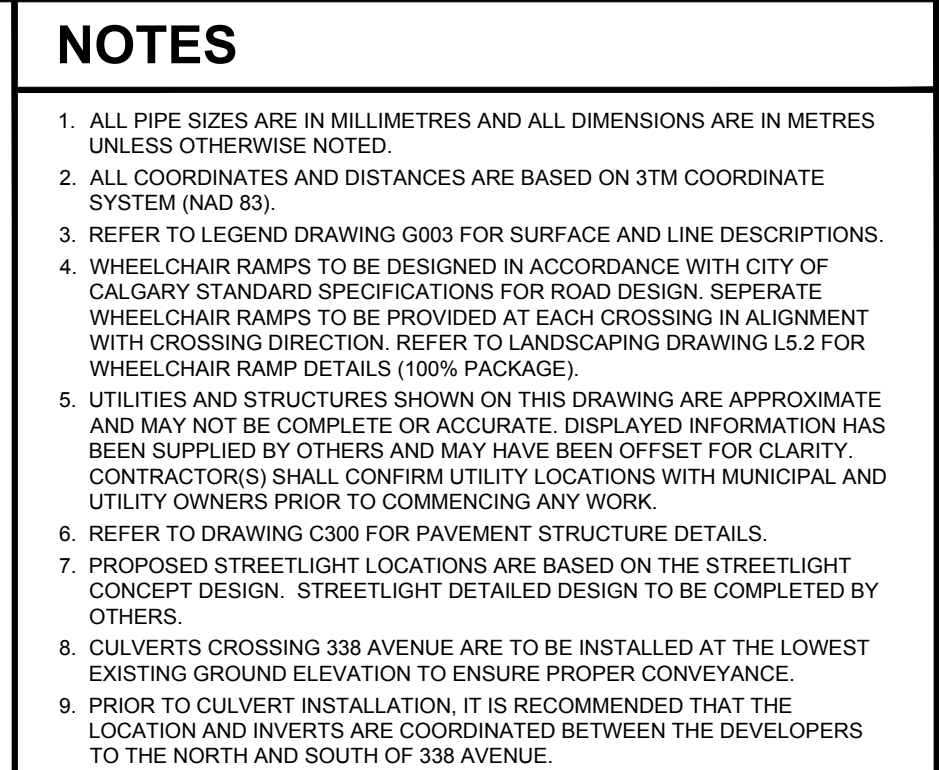
SHEET TITLE  
**KEY PLAN  
200 SERIES & 400 SERIES**

|                             |                       |
|-----------------------------|-----------------------|
| WORK ORDER NO.              | ACTIVITY NO.          |
|                             | 138875                |
| FILE NO.<br>138875-G006.dwg | ENG DWG NO.           |
| SHEET ID.<br><b>G006</b>    | SHEET NO.<br><b>6</b> |
| DATE<br>(YYYY-MM-DD)        | PROFILE NO.           |

|       |    |                      |
|-------|----|----------------------|
| DRAWN | BY | DATE<br>(YYYY-MM-DD) |
|       |    |                      |

ISC: SHEET SIZE ANSI D 25 mm





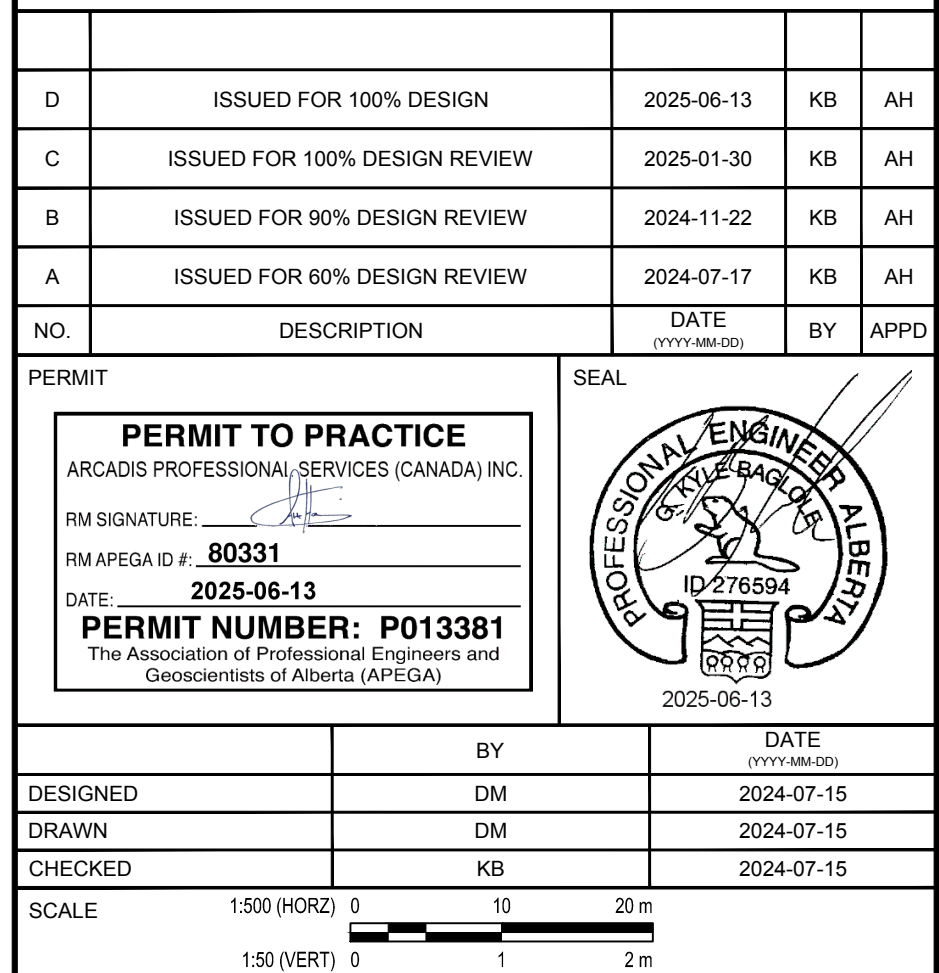
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PROJECT **338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**

**OKOTOKS, AB**

SHEET TITLE

**PLAN PROFILE  
338 AVE  
STA 51+000 - 51+280**

|                |                        |
|----------------|------------------------|
| WORK ORDER NO. | ACTIVITY NO.<br>138875 |
|----------------|------------------------|

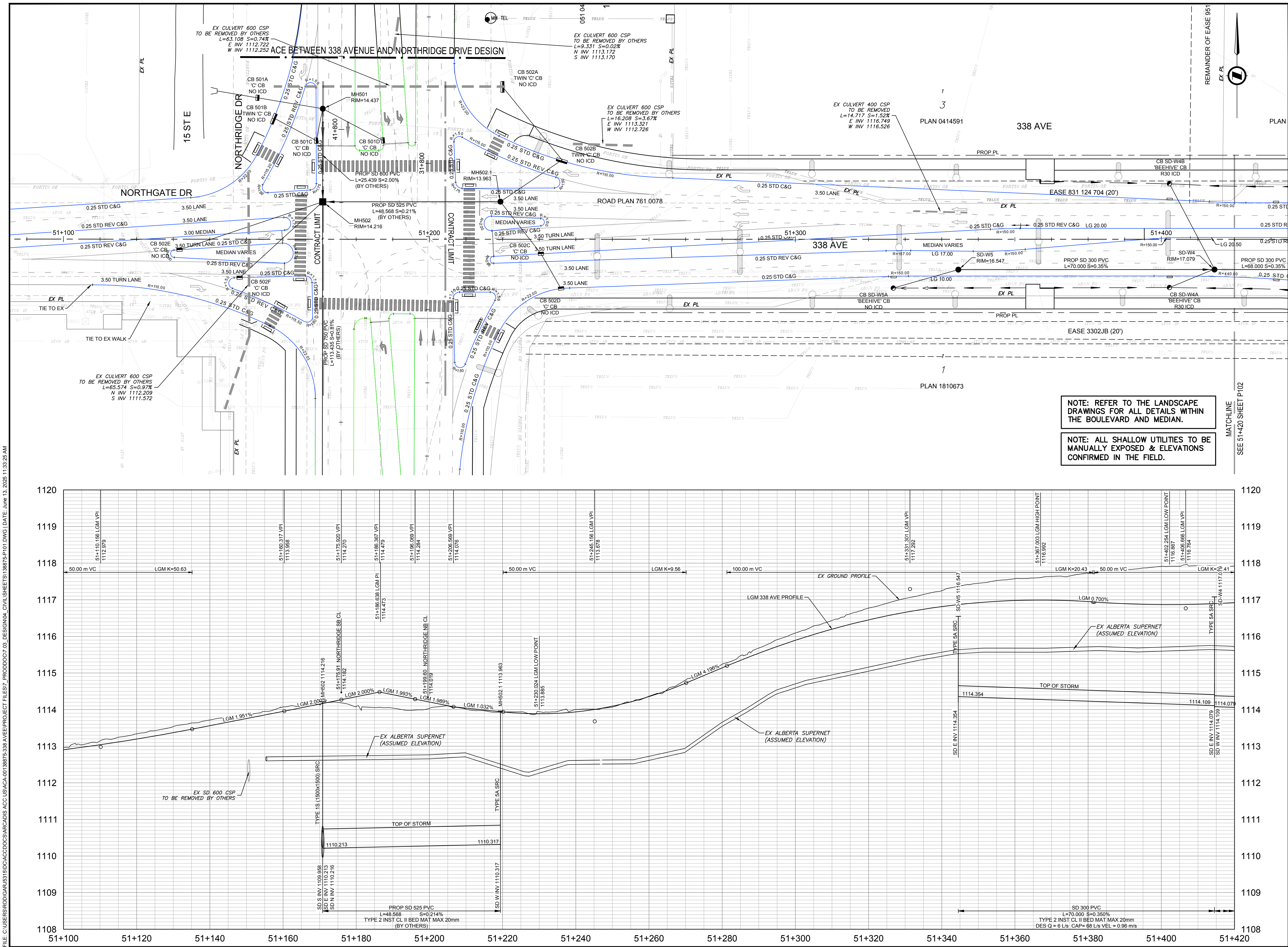
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|-----------------------------|-------------|
| FILE NO.<br>138875-P100.dwg | ENG DWG NO. |
|-----------------------------|-------------|

|           |    |           |         |
|-----------|----|-----------|---------|
| SHEET ID. |    | SHEET NO. |         |
| P100      |    | 7         |         |
|           | BY | DATE      | PROJECT |

|       |    |             |         |
|-------|----|-------------|---------|
|       | BT | (YYY-MM-DD) | PROFILE |
| DRAWN |    |             |         |



FILE: C:\USERS\ROD\GARIB3\BDO\ACCORDS\ARCADIS\ACC USA-001\8875-338 AVE\PROJECT FILES\7\_PROD\DOC\7\_03\_DESIGN\04\_CIVIL\SHEETS\138875-P101.DWG [DATE: June 13, 2025 11:33:25 AM]



### NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING 0003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.
9. PRIOR TO CULVERT INSTALLATION, IT IS RECOMMENDED THAT THE LOCATION AND INVERTS ARE COORDINATED BETWEEN THE DEVELOPERS TO THE NORTH AND SOUTH OF 338 AVENUE.

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NAD 83  
COORDINATES

|                                                                                 |                               |                                                |            |             |
|---------------------------------------------------------------------------------|-------------------------------|------------------------------------------------|------------|-------------|
| D                                                                               | ISSUED FOR 100% DESIGN        | 2025-06-13                                     | KB         | AH          |
| C                                                                               | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30                                     | KB         | AH          |
| B                                                                               | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22                                     | KB         | AH          |
| A                                                                               | ISSUED FOR 80% DESIGN REVIEW  | 2024-07-17                                     | KB         | AH          |
| NO.                                                                             | DESCRIPTION                   | DATE                                           | BY         | APPD        |
| PERMIT TO PRACTICE                                                              |                               | SEAL                                           |            |             |
| ARCADIS PROFESSIONAL SERVICES (CANADA) INC.                                     |                               | PROFESSIONAL ENGINEER ALBERTA                  |            |             |
| RM SIGNATURE: [Signature]                                                       |                               | ID 276594                                      |            |             |
| RM APEGA ID # 80331                                                             |                               | 2025-06-13                                     |            |             |
| DATE: 2025-06-13                                                                |                               | PERMIT NUMBER: P013381                         |            |             |
| The Association of Professional Engineers and Geoscientists of Alberta (APEGAB) |                               |                                                |            |             |
| DESIGNED                                                                        | DM                            | DATE                                           | 2024-07-15 |             |
| DRAWN                                                                           | DM                            | DATE                                           | 2024-07-15 |             |
| CHECKED                                                                         | KB                            | DATE                                           | 2024-07-15 |             |
| SCALE                                                                           |                               | 1:500 (HORIZ) 0 10 20 m<br>1:50 (VERT) 0 1 2 m |            |             |
|                                                                                 |                               |                                                |            |             |
| PROJECT<br>338 AVE ROAD IMPROVEMENTS<br>DETAILED DESIGN<br>OKOTAKS, AB          |                               |                                                |            |             |
| SHEET TITLE<br>PLAN PROFILE<br>338 AVE<br>STA 51+200 - 51+420                   |                               |                                                |            |             |
| WORK ORDER NO.                                                                  |                               | ACTIVITY NO.<br>138875                         |            |             |
| FILE NO.<br>138875-P101.dwg                                                     |                               | ENG DWG NO.                                    |            |             |
| SHEET ID.<br>P101                                                               |                               | SHEET NO.<br>8                                 |            |             |
| BY                                                                              |                               | DATE                                           |            | PROFILE NO. |
| DRAWN                                                                           |                               | [Signature]                                    |            |             |

ISC: SHEET SIZE ANSI D 25 mm



1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (MD 83).
3. REFER TO LEGEND DRAWING G003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. ALL AREAS AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO CONSTRUCTION.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST ELEVATION CROSSING ELEVATION TO ENSURE PROPER CONVEYANCE.
9. PRIOR TO CULVERT INSTALLATION, THE ENGINEER IS RECOMMENDED THAT THE UTILITIES AND INVERTS BE LOCATED AND RECOMMENDED THAT THE DEVELOPERS TO THE NORTH AND SOUTH OF 338 AVENUE.



**Click  
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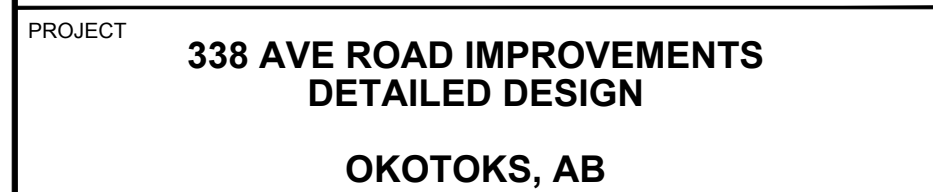
|     |                               |                      |    |      |
|-----|-------------------------------|----------------------|----|------|
|     |                               |                      |    |      |
| D   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| C   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| B   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |
| A   | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17           | KB | AH   |
| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |

SEAL



The seal is circular with the text "PROFESSIONAL ENGINEER ALBERTA" around the perimeter. In the center is a stylized oil pumpjack. Below the pumpjack is the ID number "ID 276594". At the bottom is the coat of arms of Alberta. The date "2025-06-13" is stamped below the seal.

SCALE 1:500 (HORZ) 0 10 20 m  
1:50 (VERT) 0 1 2 m

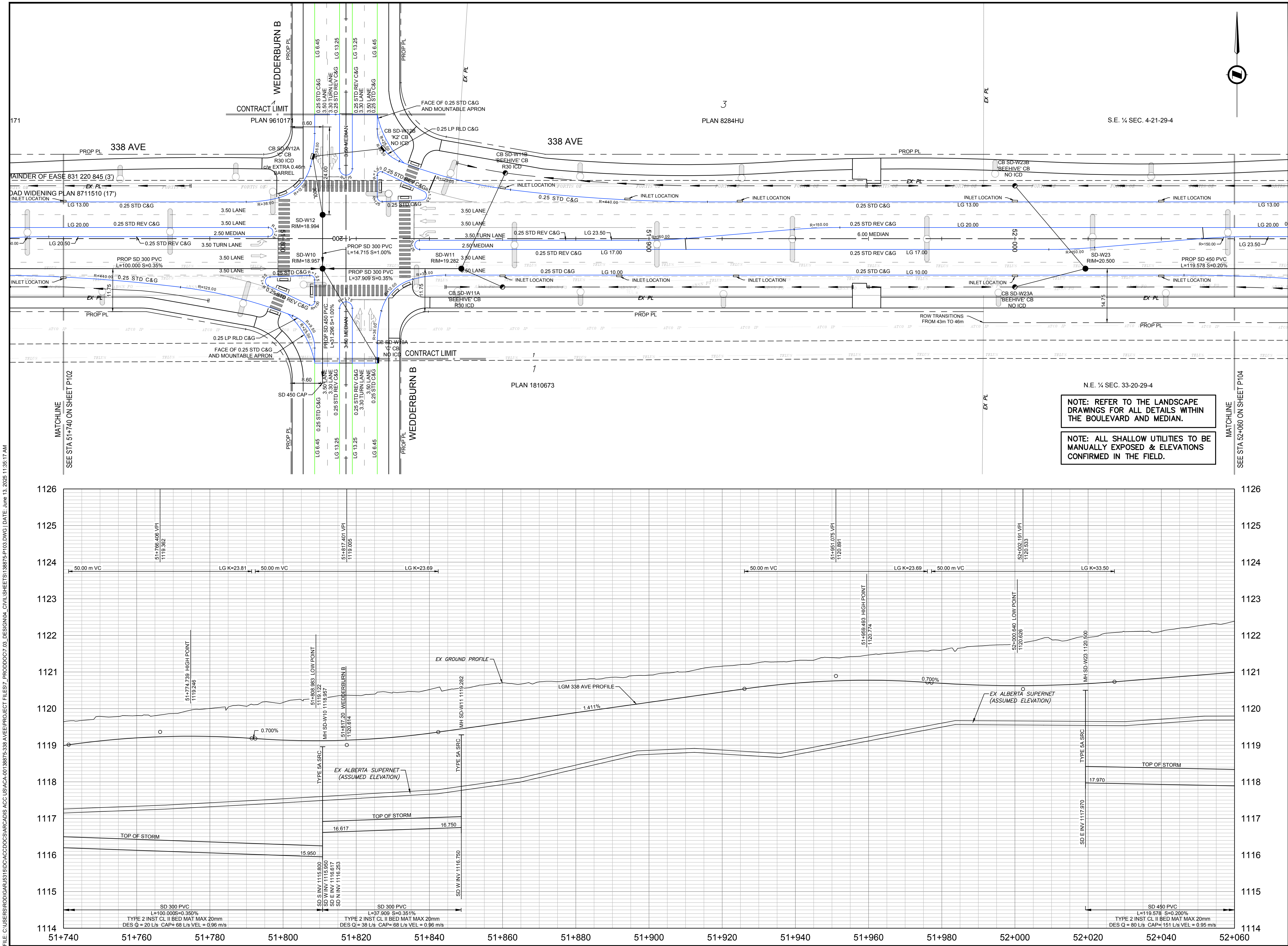


|                             |                        |
|-----------------------------|------------------------|
| WORK ORDER NO.              | ACTIVITY NO.<br>138875 |
| FILE NO.<br>138875-P102.dwg | ENG DWG NO.            |
| SHEET ID.<br><b>P102</b>    | SHEET NO.<br><b>9</b>  |

ISC: SHEET SIZE ANSI D 25 mm



FILE: C:\USERS\RODRI\GARIB31\BDO\ACCD\OS\ARCADIS\ACC US\ACA-001\8875-338 AVE\PROJECT FILES\7\_PROD\DOC\7.03\_DESIGN\04\_CIVIL\SHEETS\138875-P103.DWG | DATE: June 13, 2025 11:35:17 AM



### NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING 0003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.
9. PRIOR TO CULVERT INSTALLATION, IT IS RECOMMENDED THAT THE LOCATION AND INVERTS ARE COORDINATED BETWEEN THE DEVELOPERS TO THE NORTH AND SOUTH OF 338 AVENUE.

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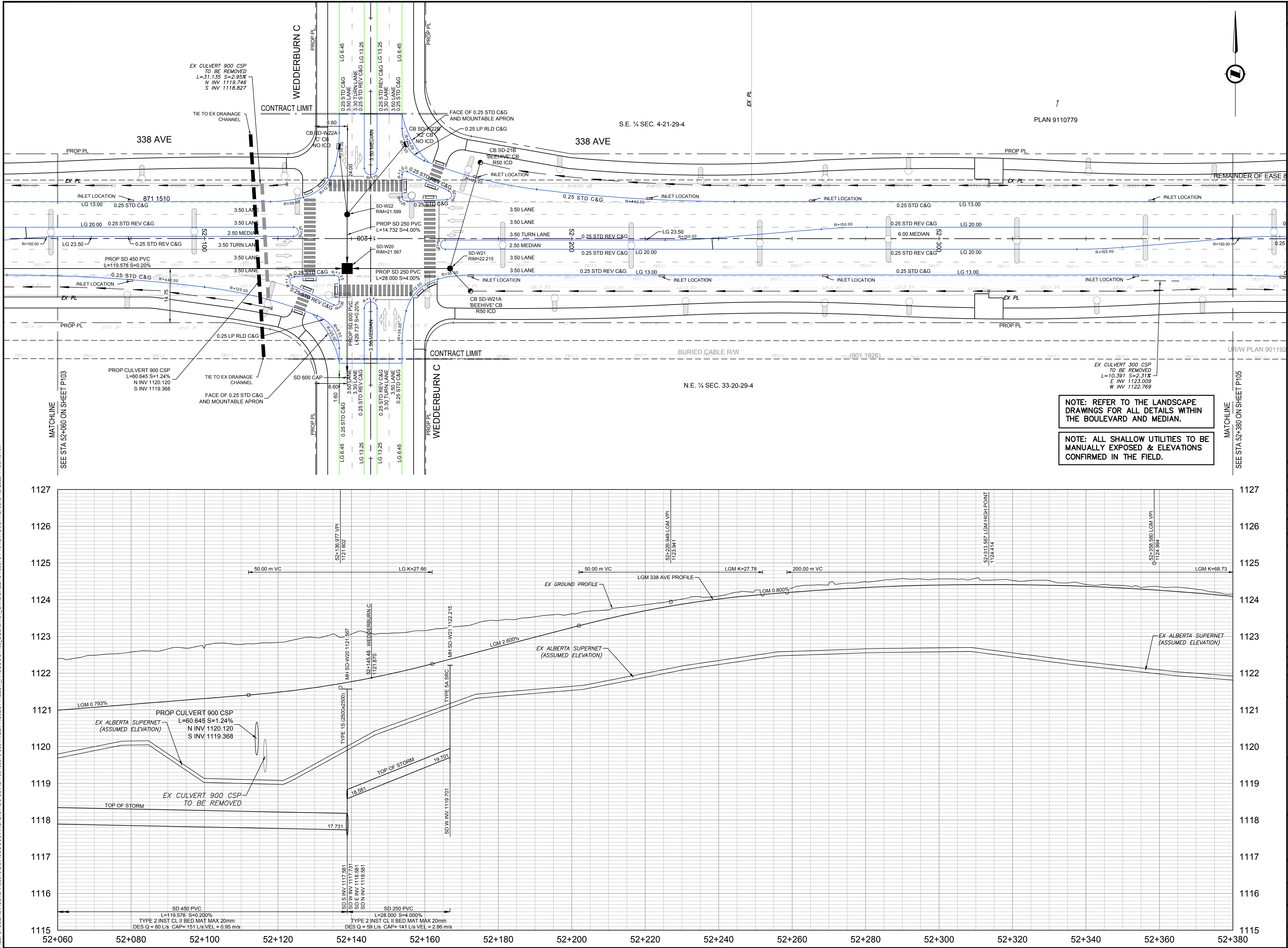
NAD 83  
COORDINATES

|                                                                                |                               |                                                |            |             |
|--------------------------------------------------------------------------------|-------------------------------|------------------------------------------------|------------|-------------|
| D                                                                              | ISSUED FOR 100% DESIGN        | 2025-06-13                                     | KB         | AH          |
| C                                                                              | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30                                     | KB         | AH          |
| B                                                                              | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22                                     | KB         | AH          |
| A                                                                              | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17                                     | KB         | AH          |
| NO.                                                                            | DESCRIPTION                   | DATE                                           | BY         | APPD        |
| PERMIT TO PRACTICE                                                             |                               | SEAL                                           |            |             |
| ARCADIS PROFESSIONAL SERVICES (CANADA) INC.                                    |                               | PROFESSIONAL ENGINEER ALBERTA                  |            |             |
| RM SIGNATURE: [Signature]                                                      |                               | ID 276594                                      |            |             |
| RM APEGA ID # 80331                                                            |                               | 2025-06-13                                     |            |             |
| DATE: 2025-06-13                                                               |                               | PERMIT NUMBER: P013381                         |            |             |
| The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |                               | 2025-06-13                                     |            |             |
| DESIGNED                                                                       | DM                            | DATE                                           | 2024-07-15 |             |
| DRAWN                                                                          | DM                            | DATE                                           | 2024-07-15 |             |
| CHECKED                                                                        | KB                            | DATE                                           | 2024-07-15 |             |
| SCALE                                                                          |                               | 1:500 (HORIZ) 0 10 20 m<br>1:50 (VERT) 0 1 2 m |            |             |
|                                                                                |                               |                                                |            |             |
| PROJECT<br>338 AVE ROAD IMPROVEMENTS<br>DETAILED DESIGN<br>OKOTOKS, AB         |                               |                                                |            |             |
| SHEET TITLE<br>PLAN PROFILE<br>338 AVE<br>STA 51+740 - 52+060                  |                               |                                                |            |             |
| WORK ORDER NO.                                                                 |                               | ACTIVITY NO.<br>138875                         |            |             |
| FILE NO.<br>138875-P103.dwg                                                    |                               | ENG DWG NO.                                    |            |             |
| SHEET ID.<br>P103                                                              |                               | SHEET NO.<br>10                                |            |             |
| BY                                                                             |                               | DATE                                           |            | PROFILE NO. |
| DRAWN                                                                          |                               |                                                |            |             |

ISC: SHEET SIZE ANSI D 25 mm



FILE: C:\USERS\ROD\GARIBUSI\BDO\ACCD\OS\ARCADIS\ACC USACA-0018875-338 AVE\PROJECT FILES\PRODDOC\03 DESIGN\04 CIVIL\SHEETS\138875-P104.DWG | DATE: June 13, 2025 11:38:13 AM



## NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING G003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.
9. PRIOR TO CULVERT INSTALLATION, IT IS RECOMMENDED THAT THE LOCATION AND INVERTS ARE COORDINATED BETWEEN THE DEVELOPERS TO THE NORTH AND SOUTH OF 338 AVENUE.

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NAD 83  
COORDINATES

NOTE: REFER TO THE LANDSCAPE DRAWINGS FOR ALL DETAILS WITHIN THE BOULEVARD AND MEDIAN.

NOTE: ALL SHALLOW UTILITIES TO BE MANUALLY EXPOSED & ELEVATIONS CONFIRMED IN THE FIELD.

|                                                                                |                               |              |      |             |
|--------------------------------------------------------------------------------|-------------------------------|--------------|------|-------------|
|                                                                                |                               |              |      |             |
| D                                                                              | ISSUED FOR 100% DESIGN        | 2025-06-13   | KB   | AH          |
| C                                                                              | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30   | KB   | AH          |
| B                                                                              | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22   | KB   | AH          |
| A                                                                              | ISSUED FOR 80% DESIGN REVIEW  | 2024-07-17   | KB   | AH          |
| NO.                                                                            | DESCRIPTION                   | DATE         | BY   | APPD        |
| PERMIT                                                                         |                               |              |      |             |
| PERMIT TO PRACTICE                                                             |                               |              |      |             |
| ARCADIS PROFESSIONAL SERVICES (CANADA) INC.                                    |                               |              |      |             |
| RM SIGNATURE: [Signature]                                                      |                               |              |      |             |
| RM APEGA ID # 80331                                                            |                               |              |      |             |
| DATE 2025-06-13                                                                |                               |              |      |             |
| PERMIT NUMBER: P013381                                                         |                               |              |      |             |
| The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |                               |              |      |             |
| SEAL                                                                           |                               |              |      |             |
| PROFESSIONAL ENGINEER ALBERTA                                                  |                               |              |      |             |
| ID 276594                                                                      |                               |              |      |             |
| 2025-06-13                                                                     |                               |              |      |             |
| DESIGNED                                                                       |                               | DM           | DATE | 2024-07-15  |
| DRAWN                                                                          |                               | DM           | DATE | 2024-07-15  |
| CHECKED                                                                        |                               | KB           | DATE | 2024-07-15  |
| SCALE 1:500 (HORZ) 0 10 20 m                                                   |                               |              |      |             |
| 1:50 (VERT) 0 1 2 m                                                            |                               |              |      |             |
| Okotaks                                                                        |                               |              |      |             |
| PROJECT 338 AVE ROAD IMPROVEMENTS DETAILED DESIGN                              |                               |              |      |             |
| OKOTAKS, AB                                                                    |                               |              |      |             |
| SHEET TITLE PLAN PROFILE 338 AVE STA 52+060 - 52+380                           |                               |              |      |             |
| WORK ORDER NO.                                                                 |                               | ACTIVITY NO. |      |             |
| FILE NO.                                                                       |                               | 138875       |      |             |
| 138875-P104.dwg                                                                |                               | ENG DWG NO.  |      |             |
| SHEET ID.                                                                      |                               | SHEET NO.    |      |             |
| P104                                                                           |                               | 11           |      |             |
| BY                                                                             |                               | DATE         |      | PROFILE NO. |
| DRAWN                                                                          |                               |              |      |             |

ISC: SHEET SIZE ANSI D 25 mm



1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING G003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAIL (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO BEGINNING OF WORK.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CURBWAYS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER DRAINAGE.
9. PRIOR TO CULVERT INSTALLATION, IT IS RECOMMENDED THAT THE LOCATION AND INVERTS ARE COORDINATED BETWEEN THE DEVELOPERS TO THE NORTH AND SOUTH OF 338 AVENUE.



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COORDINATES

|                                                                                                                    |                                                                                       |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| PERMIT                                                                                                             | SEAL                                                                                  |
| <b>PERMIT TO PRACTICE</b>                                                                                          |                                                                                       |
| ARCADIS PROFESSIONAL SERVICES (CANADA) INC.                                                                        |                                                                                       |
| RM SIGNATURE:                 |  |
| RM APEGA ID #: <b>80331</b>                                                                                        |                                                                                       |
| DATE: <b>2025-06-13</b>                                                                                            |                                                                                       |
| <b>PERMIT NUMBER: P013381</b><br>The Association of Professional Engineers and<br>Geoscientists of Alberta (APEGA) |                                                                                       |
| 2025-06-13                                                                                                         |                                                                                       |

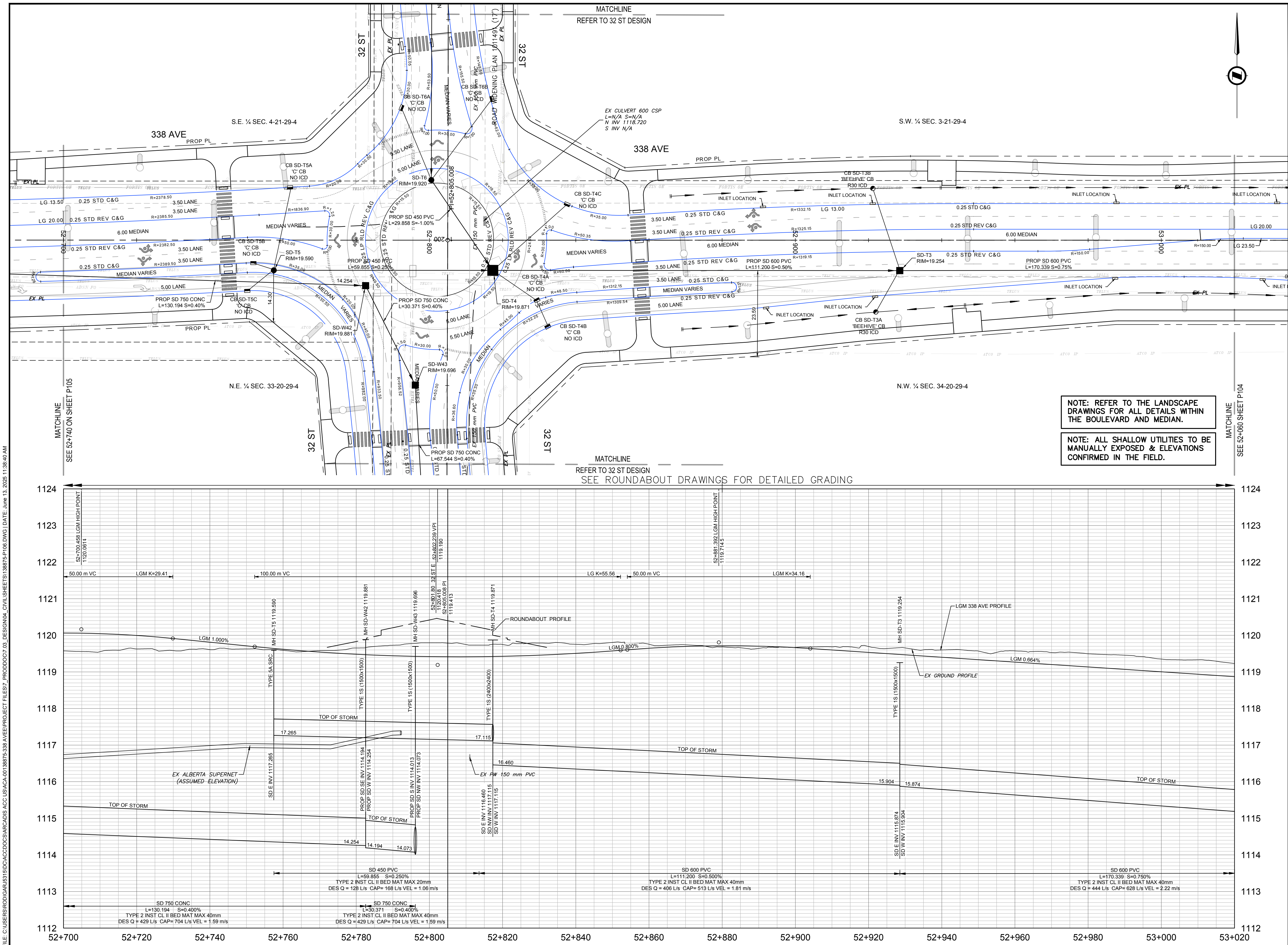


|             |                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------|
| SHEET TITLE | <p align="center"><b>PLAN PROFILE</b></p> <p align="center"><b>338 AVE</b></p> <p align="center"><b>STA 52+380 - 52+700</b></p> |
|-------------|---------------------------------------------------------------------------------------------------------------------------------|

ISC: SHEET SIZE ANSI D 25 mm



FILE: C:\USERS\ROD\GARIB31\BDO\ACC\OCS\ARCADIS\ACC USACA-001\8875-338 AVE\PROJECT FILES\PRODDOC\03 DESIGN\04 CIVIL\SHEETS\138875-P106.DWG [DATE: June 13, 2025 11:38:40 AM]



### NOTES

- ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
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- REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
- PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
- CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.
- PRIOR TO CULVERT INSTALLATION, IT IS RECOMMENDED THAT THE LOCATION AND INVERTS ARE COORDINATED BETWEEN THE DEVELOPERS TO THE NORTH AND SOUTH OF 338 AVENUE.

NOT FOR CONSTRUCTION

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NAD 83  
COORDINATES

|                                                                        |                               |                                                                                |            |             |
|------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------------------------|------------|-------------|
| D                                                                      | ISSUED FOR 100% DESIGN        | 2025-06-13                                                                     | KB         | AH          |
| C                                                                      | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30                                                                     | KB         | AH          |
| B                                                                      | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22                                                                     | KB         | AH          |
| A                                                                      | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17                                                                     | KB         | AH          |
| NO.                                                                    | DESCRIPTION                   | DATE (YYYY-MM-DD)                                                              | BY         | APPD        |
| PERMIT                                                                 |                               | SEAL                                                                           |            |             |
| PERMIT TO PRACTICE                                                     |                               | ARCADIS PROFESSIONAL SERVICES (CANADA) INC.                                    |            |             |
| RM SIGNATURE: [Signature]                                              |                               | DATE: 2025-06-13                                                               |            |             |
| RM APEGA ID # 80331                                                    |                               | PERMIT NUMBER: P013381                                                         |            |             |
| DATE: 2025-06-13                                                       |                               | The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |            |             |
| DESIGNED                                                               | DM                            | DATE                                                                           | 2024-07-15 |             |
| DRAWN                                                                  | DM                            | DATE                                                                           | 2024-07-15 |             |
| CHECKED                                                                | KB                            | DATE                                                                           | 2024-07-15 |             |
| SCALE                                                                  |                               | 1:500 (HORIZ) 0 10 20 m<br>1:50 (VERT) 0 1 2 m                                 |            |             |
|                                                                        |                               |                                                                                |            |             |
| PROJECT<br>338 AVE ROAD IMPROVEMENTS<br>DETAILED DESIGN<br>OKOTOKS, AB |                               |                                                                                |            |             |
| SHEET TITLE<br>PLAN PROFILE<br>338 AVE<br>STA 52+700 - 53+020          |                               |                                                                                |            |             |
| WORK ORDER NO.                                                         |                               | ACTIVITY NO.<br>138875                                                         |            |             |
| FILE NO.<br>138875-P106.dwg                                            |                               | ENG DWG NO.                                                                    |            |             |
| SHEET ID.<br>P106                                                      |                               | SHEET NO.<br>13                                                                |            | PROFILE NO. |
| BY                                                                     |                               | DATE (YYYY-MM-DD)                                                              |            |             |
| DRAWN                                                                  |                               |                                                                                |            |             |

ISC: SHEET SIZE ANSI D 25 mm



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2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (MD 83).
3. REFER TO LEGEND DRAWING G003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN OBTAINED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO CONSTRUCTION OF ANY WORK.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.
9. PRIOR TO CURB/RT INSTALLATION, IT IS RECOMMENDED THAT THE LOCATION AND INVERTS ARE COORDINATED BETWEEN THE DEVELOPERS TO THE NORTH AND SOUTH OF 338 AVENUE.



**Click  
Before  
You Dig**

NOTE: REFER TO THE LANDSCAPE  
DRAWINGS FOR ALL DETAILS WITHIN  
THE BOULEVARD AND MEDIAN.

NOTE: ALL SHALLOW UTILITIES TO BE MANUALLY EXPOSED & ELEVATIONS CONFIRMED IN THE FIELD.

|     |                               |                      |    |      |
|-----|-------------------------------|----------------------|----|------|
|     |                               |                      |    |      |
| D   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| C   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| B   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |
| A   | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17           | KB | AH   |
| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |

|                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <p>PERMIT</p> <p><b>PERMIT TO PRACTICE</b></p> <p>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.</p> <p>RM SIGNATURE: </p> <p>RM APEGA ID #: <b>80331</b></p> <p>DATE: <b>2025-06-13</b></p> <p><b>PERMIT NUMBER: P013381</b></p> <p>The Association of Professional Engineers and Geoscientists of Alberta (APEGA)</p> | <p>SEAL</p>  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|

|          |               |                      |
|----------|---------------|----------------------|
|          | BY            | DATE<br>(YYYY-MM-DD) |
| DESIGNED | DM            | 2024-07-15           |
| DRAWN    | DM            | 2024-07-15           |
| CHECKED  | KB            | 2024-07-15           |
| SCALE    |               |                      |
|          | 1:500 (HORIZ) | 1:500 (VERT)         |



PROJECT

**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**

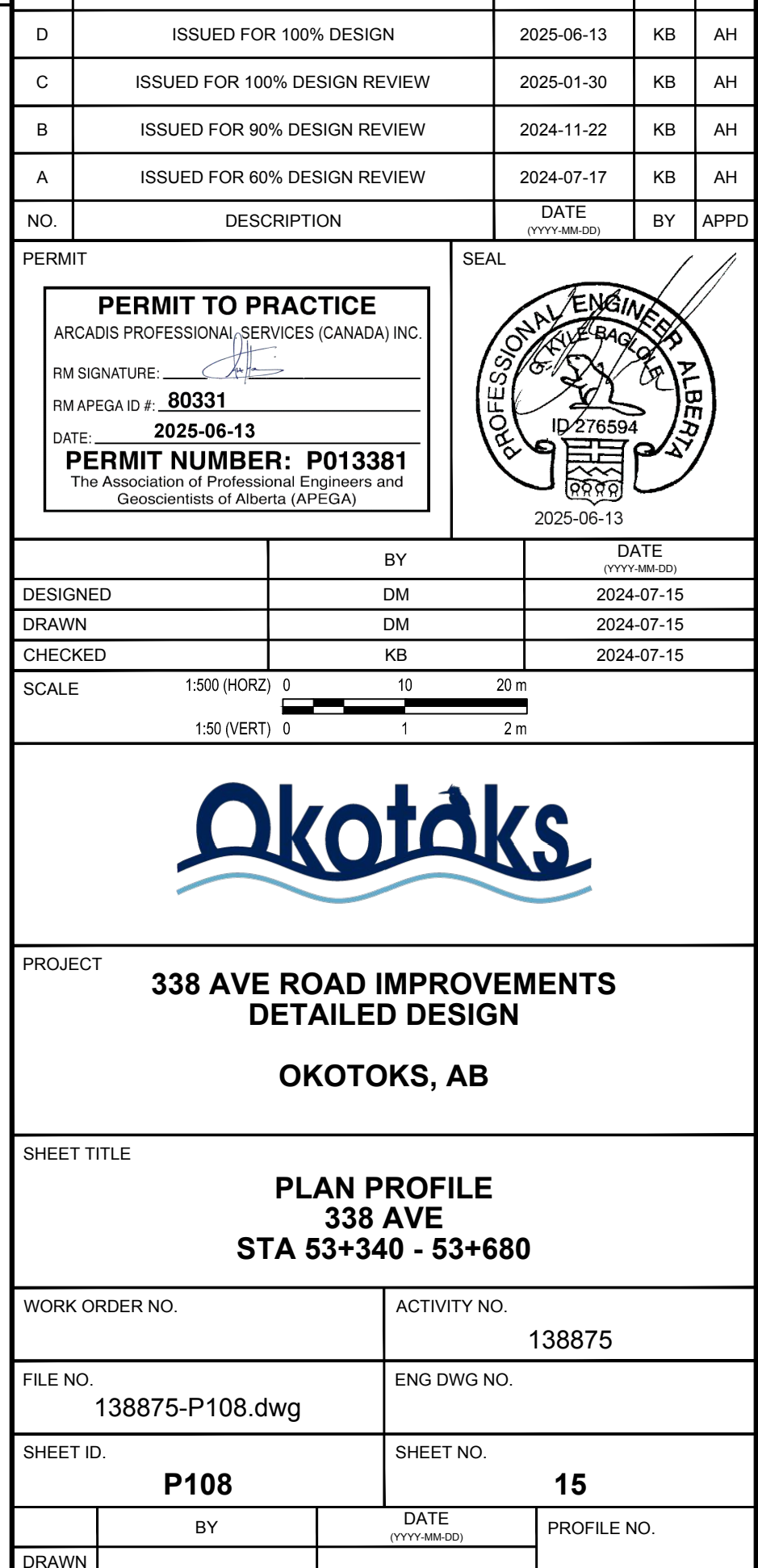
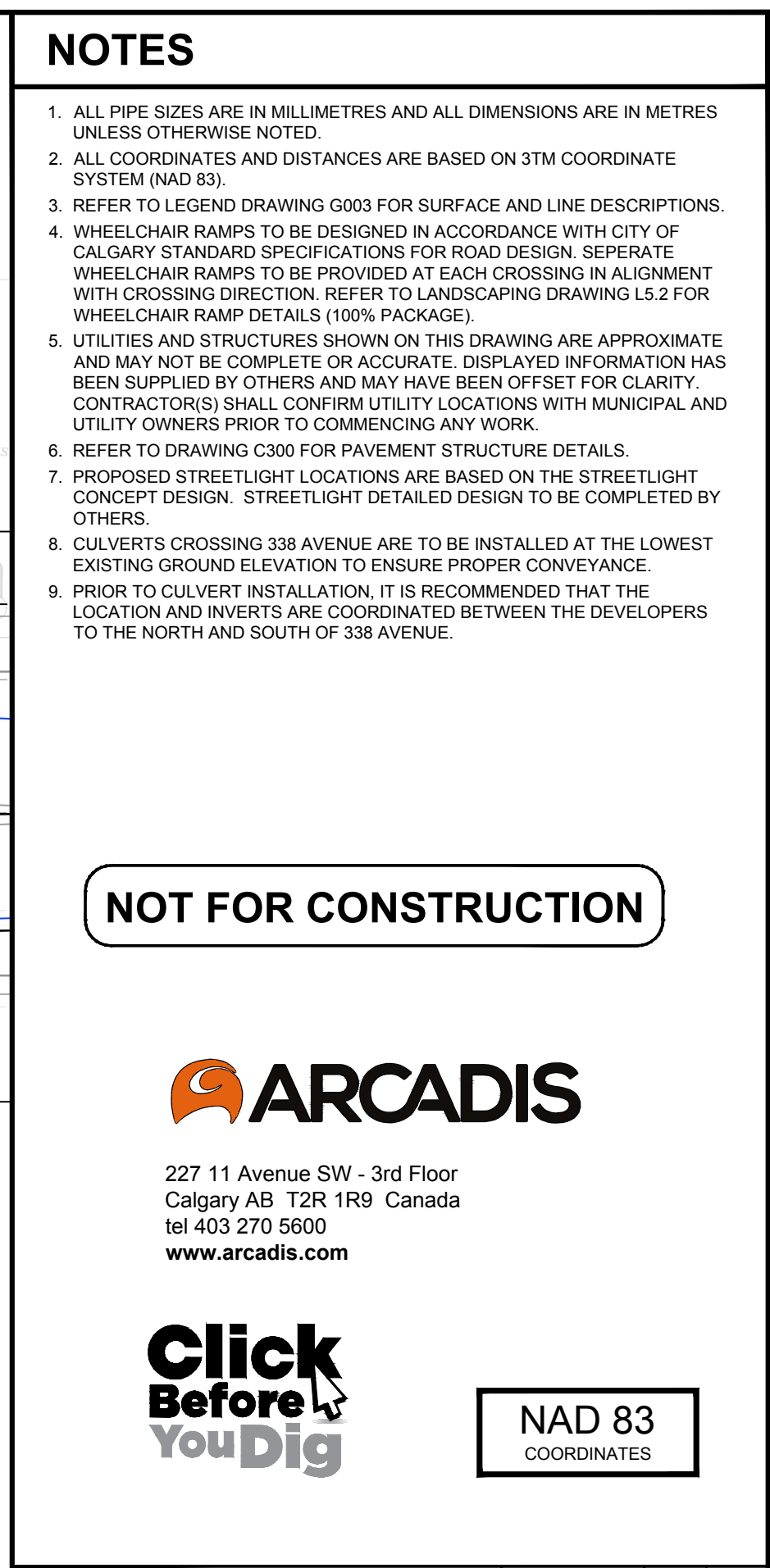
**OKOTOKS, AB**

SHEET TITLE

**PLAN PROFILE  
338 AVE  
STA 53+020 - 53+340**

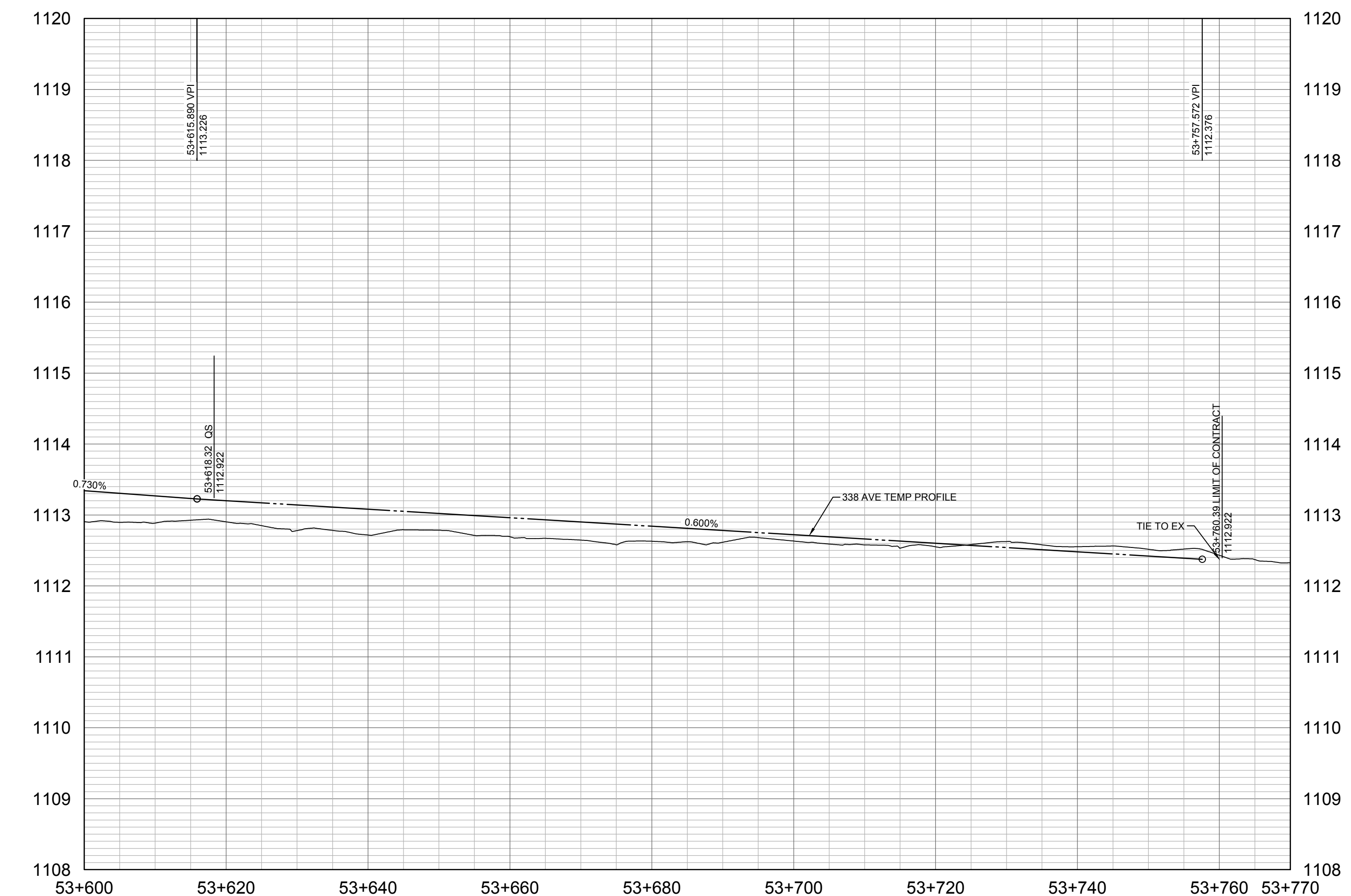
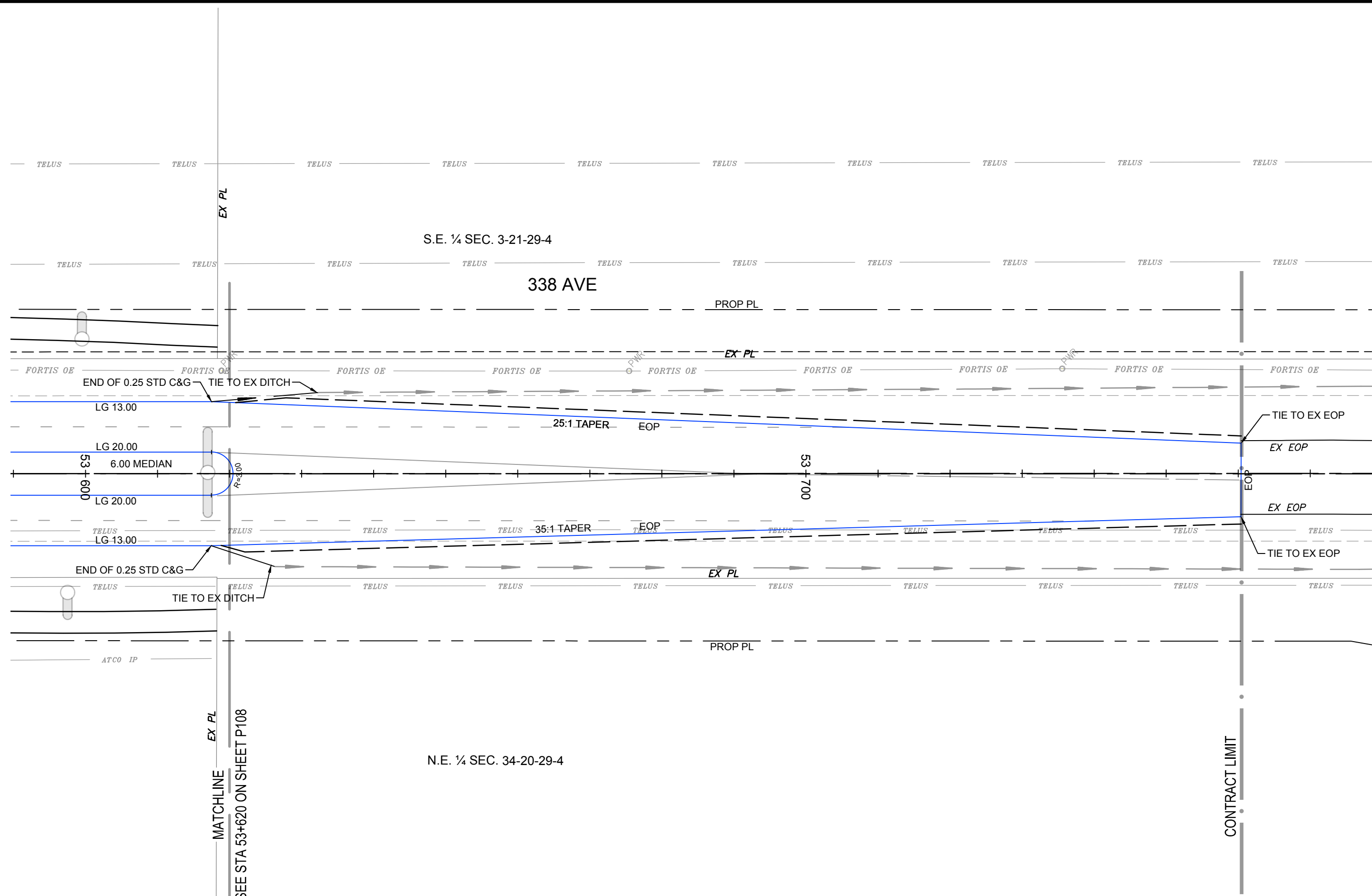
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| FILE NO.        |  | 138875       |             |
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| SHEET ID.       |  | SHEET NO.    |             |
| P107            |  | 14           |             |
| BY              |  | DATE         | PROFILE NO. |
|                 |  | (YYYY-MM-DD) |             |
| DRAWN           |  |              |             |







FILE: C:\USERS\ROD\GARJES18DO\ACCDOS\ARCADIS\ACC US\ACA-01\18875-338 AVE\PROJECT FILES\7\_PRODDOC\7.03\_DESIGN\04\_CIVIL\SHEETS\18875-P109.DWG | DATE: June 13, 2025 11:41:17 AM



NOTE: REFER TO THE LANDSCAPE DRAWINGS FOR ALL DETAILS WITHIN THE BOULEVARD AND MEDIAN.

NOTE: ALL SHALLOW UTILITIES TO BE MANUALLY EXPOSED & ELEVATIONS CONFIRMED IN THE FIELD.

### NOTES

- ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
- REFER TO LEGEND DRAWING G003 FOR SURFACE AND LINE DESCRIPTIONS.
- WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
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- REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
- PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
- CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.
- PRIOR TO CULVERT INSTALLATION, IT IS RECOMMENDED THAT THE LOCATION AND INVERTS ARE COORDINATED BETWEEN THE DEVELOPERS TO THE NORTH AND SOUTH OF 338 AVENUE.

**NOT FOR CONSTRUCTION**

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**NAD 83**  
COORDINATES

| NO. | DESCRIPTION                      | DATE<br>(YYYY-MM-DD) | BY | APPD |
|-----|----------------------------------|----------------------|----|------|
| C   | ISSUED FOR 100% DESIGN           | 2025-06-13           | KB | AH   |
| B   | ISSUED FOR 100% DESIGN REVIEW    | 2025-01-30           | KB | AH   |
| A   | ISSUED FOR 90% DESIGN SUBMISSION | 2024-11-22           | KB | AH   |

PERMIT

**PERMIT TO PRACTICE**  
ARCADIS PROFESSIONAL SERVICES (CANADA) INC.  
RM SIGNATURE:   
RM APEGA ID #: **80331**  
DATE: **2025-06-13**  
**PERMIT NUMBER: P013381**  
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

SEAL  
  
2025-06-13

|          | BY | DATE<br>(YYYY-MM-DD) |
|----------|----|----------------------|
| DESIGNED | DM | 2024-07-15           |
| DRAWN    | DM | 2024-07-15           |
| CHECKED  | KB | 2024-07-15           |

SCALE 1:500 (HORZ) 0 10 20 m  
1:50 (VERT) 0 1 2 m

PROJECT  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTOKS, AB**

SHEET TITLE  
**PLAN PROFILE  
338 AVE  
STA 53+620 - 53+780**

| WORK ORDER NO. | ACTIVITY NO. |
|----------------|--------------|
|                | 138875       |

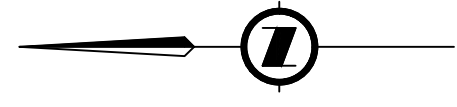
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| SHEET ID.   | SHEET NO. |
|-------------|-----------|
| <b>P109</b> | <b>16</b> |

|       | BY | DATE<br>(YYYY-MM-DD) | PROFILE NO. |
|-------|----|----------------------|-------------|
| DRAWN |    |                      |             |

ISC: SHEET SIZE ANSI D 25 mm





**NOTE: ALL SHALLOW UTILITIES TO BE MANUALLY EXPOSED & ELEVATIONS CONFIRMED IN THE FIELD.**



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5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN OBTAINED FROM RECORDS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND PRIVATE OWNERS PRIOR TO CONSTRUCTION.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.
9. REFER TO CULVERT INSTALLATION. IT IS RECOMMENDED THAT THE CULVERT LOCATION AND INVERTS BE COORDINATED BETWEEN THE DEVELOPERS TO THE NORTH AND SOUTH OF 338 AVENUE.

**NOT FOR CONSTRUCTION**



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NAD 83  
COORDINATES

|     |                               |                      |    |      |
|-----|-------------------------------|----------------------|----|------|
|     |                               |                      |    |      |
| D   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| C   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| B   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |
| A   | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17           | KB | AH   |
| NO. | DESCRIPTION                   | DATE<br>(mm/dd/yyyy) | BY | APPD |

|                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>PERMIT</b></p> <p style="text-align: center;"><b>PERMIT TO PRACTICE</b></p> <p style="text-align: center;">ARCADIS PROFESSIONAL SERVICES (CANADA) INC.</p> <p>RM SIGNATURE: <u>[Signature]</u></p> <p>RM APEGA ID #: <b>80331</b></p> <p>DATE: <b>2025-06-13</b></p> <p><b>PERMIT NUMBER: P013381</b></p> <p>The Association of Professional Engineers and<br/>Geoscientists of Alberta (APEGA)</p> | <p><b>SEAL</b></p>  <p>A circular seal for a Professional Engineer in Alberta. The outer ring contains the text 'PROFESSIONAL ENGINEER ALBERTA'. Inside the ring, the name 'R. TYLER BAGG' is written in a circular path. In the center, there is a stylized drawing of a person standing on a globe. Below the globe, the text 'ID 276594' is printed. At the bottom of the seal, the expiration date '2025-06-13' is printed.</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|          |                                                                                                                                                                                                                |                      |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
|          | BY                                                                                                                                                                                                             | DATE<br>(YYYY-MM-DD) |
| DESIGNED | DM                                                                                                                                                                                                             | 2024-07-15           |
| DRAWN    | DM                                                                                                                                                                                                             | 2024-07-15           |
| CHECKED  | KB                                                                                                                                                                                                             | 2024-07-15           |
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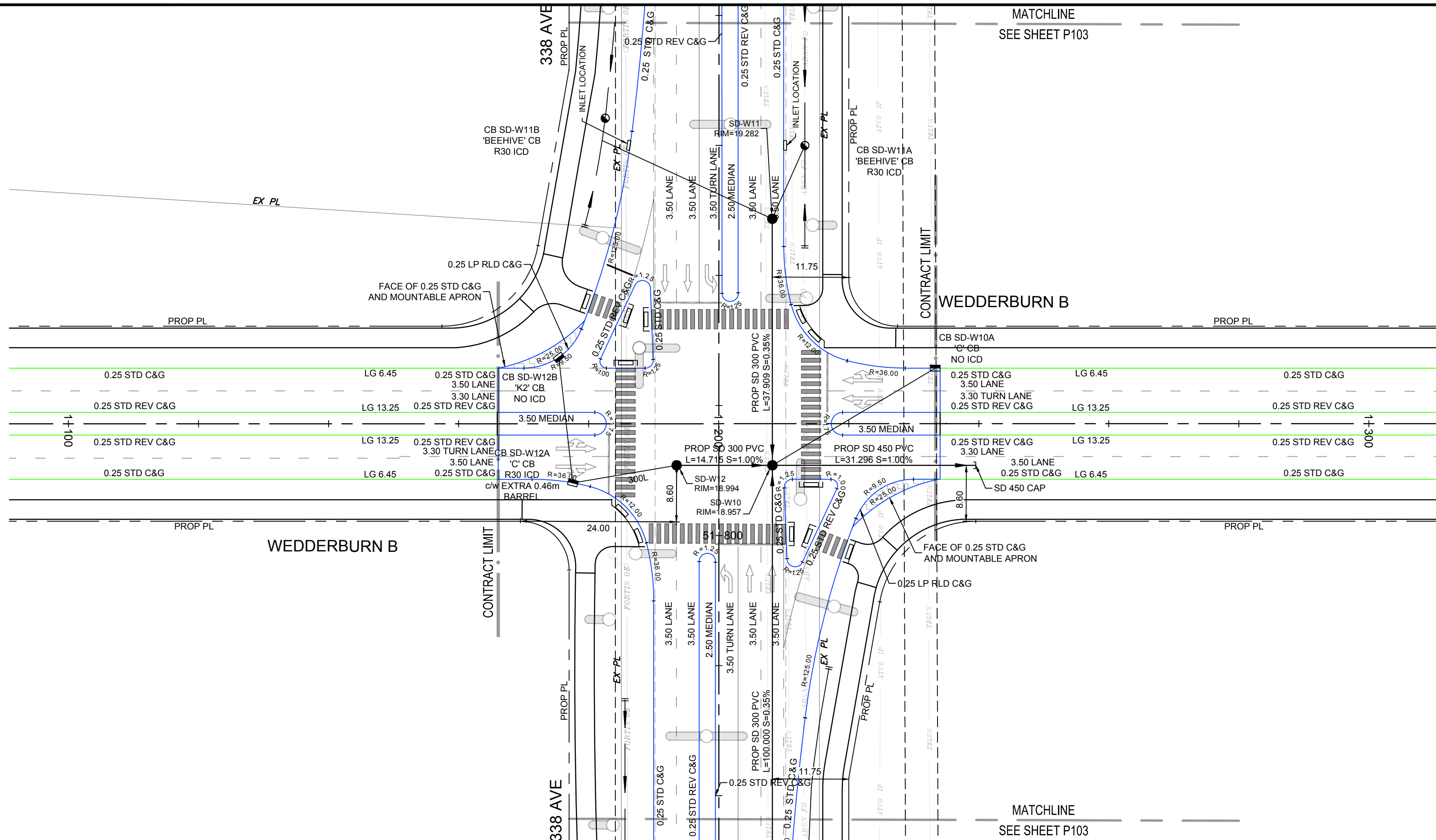
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|---------|--------------------------------------------------------------------------------------|
| PROJECT | <b>338 AVE ROAD IMPROVEMENTS</b><br><b>DETAILED DESIGN</b><br><br><b>OKOTOKS, AB</b> |
|---------|--------------------------------------------------------------------------------------|

SHEET TITLE

**PLAN PROFILE  
WEDDERBURN ROAD A**

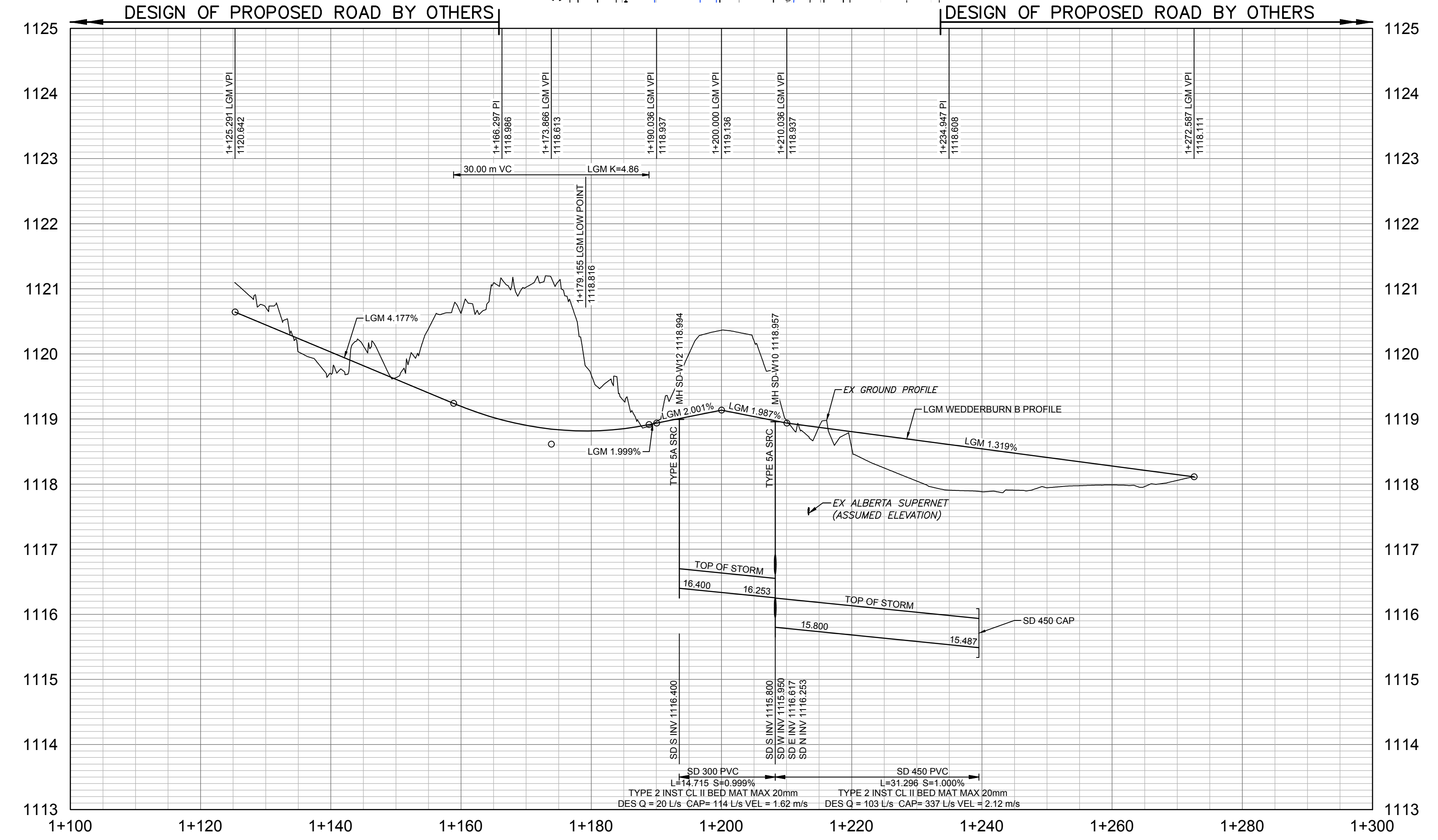
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| FILE NO.<br><b>138875-P117.dwg</b> |    | ENG DWG NO.                   |             |
| SHEET ID.<br><b>P117</b>           |    | SHEET NO.<br><b>17</b>        |             |
|                                    | BY | DATE<br>(YYYY-MM-DD)          | PROFILE NO. |
| DRAWN                              |    |                               |             |





NOTE: REFER TO THE LANDSCAPE DRAWINGS FOR ALL DETAILS WITHIN THE BOULEVARD AND MEDIAN.

NOTE: ALL SHALLOW UTILITIES TO BE MANUALLY EXPOSED & ELEVATIONS CONFIRMED IN THE FIELD.



## NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING 0003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
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8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.
9. PRIOR TO CULVERT INSTALLATION, IT IS RECOMMENDED THAT THE LOCATION AND INVERTS ARE COORDINATED BETWEEN THE DEVELOPERS TO THE NORTH AND SOUTH OF 338 AVENUE.

NOT FOR CONSTRUCTION



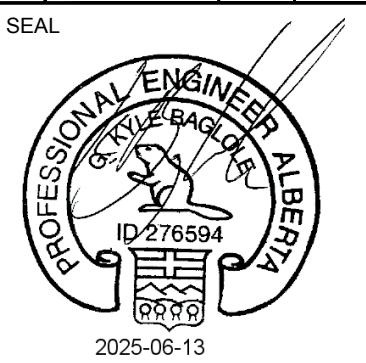
227 11 Avenue SW - 3rd Floor  
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NAD 83  
COORDINATES

| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |
|-----|-------------------------------|----------------------|----|------|
| D   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| C   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| B   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |
| A   | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17           | KB | AH   |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----|------|
| PERMIT                                                                                                                                                                                                                                                | DATE<br>(YYYY-MM-DD) | BY | APPD |
| PERMIT TO PRACTICE<br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE: [Signature]<br>RM APEGA ID # 80331<br>DATE 2025-06-13<br>PERMIT NUMBER: P013381<br>The Association of Professional Engineers and Geoscientists of Alberta (APEGGA) | DATE<br>(YYYY-MM-DD) | BY | APPD |



|          |    |                      |
|----------|----|----------------------|
| DESIGNED | DM | DATE<br>(YYYY-MM-DD) |
| DRAWN    | DM | DATE<br>(YYYY-MM-DD) |
| CHECKED  | KB | DATE<br>(YYYY-MM-DD) |



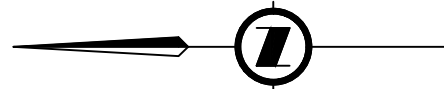
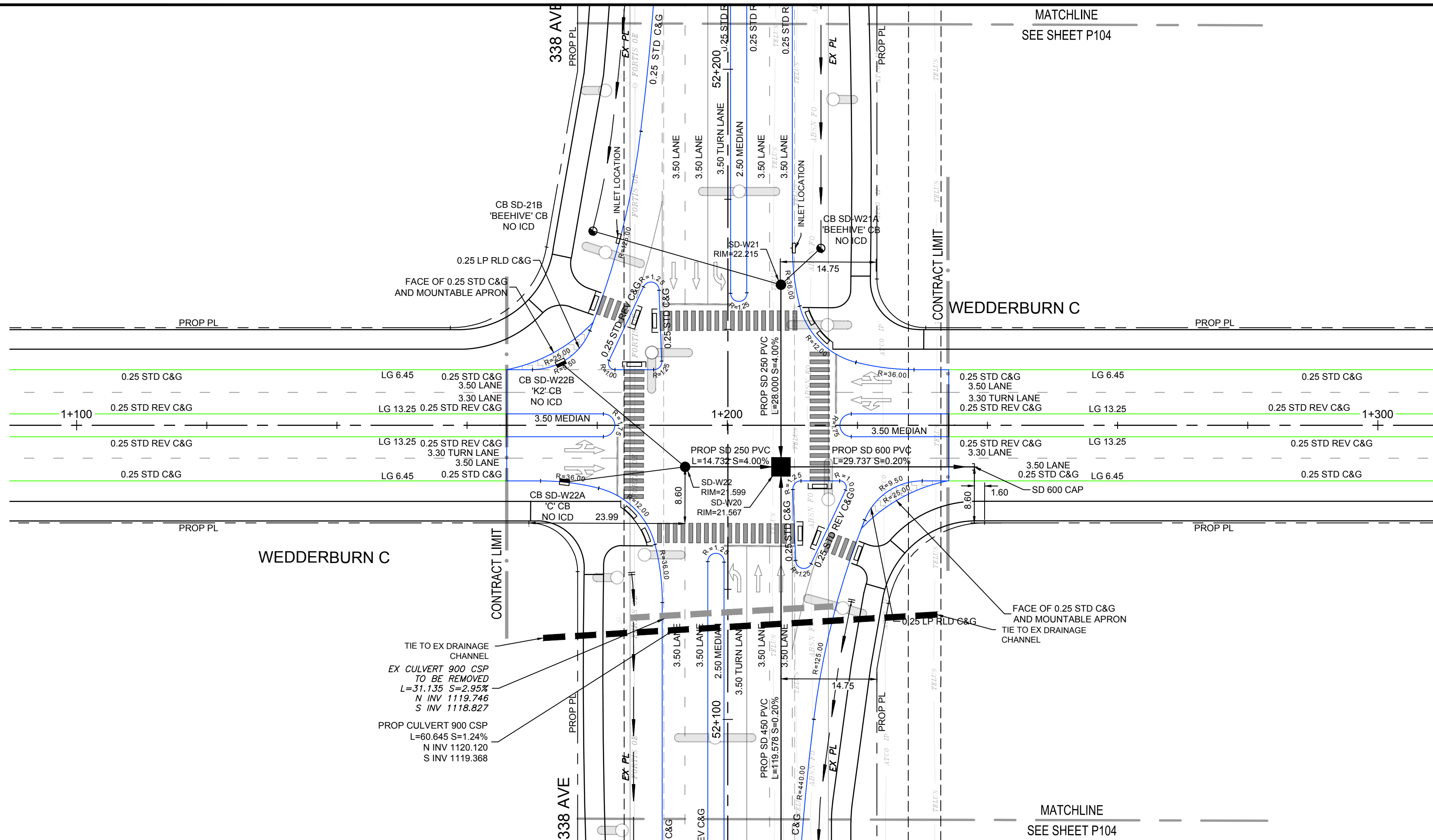
PROJECT  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTOKS, AB**

SHEET TITLE  
**PLAN PROFILE  
WEDDERBURN ROAD B**

|                             |                        |
|-----------------------------|------------------------|
| WORK ORDER NO.              | ACTIVITY NO.           |
| FILE NO.<br>138875-P118.dwg | 138857                 |
| SHEET ID.<br><b>P118</b>    | SHEET NO.<br><b>18</b> |
| DATE<br>(YYYY-MM-DD)        | PROFILE NO.            |

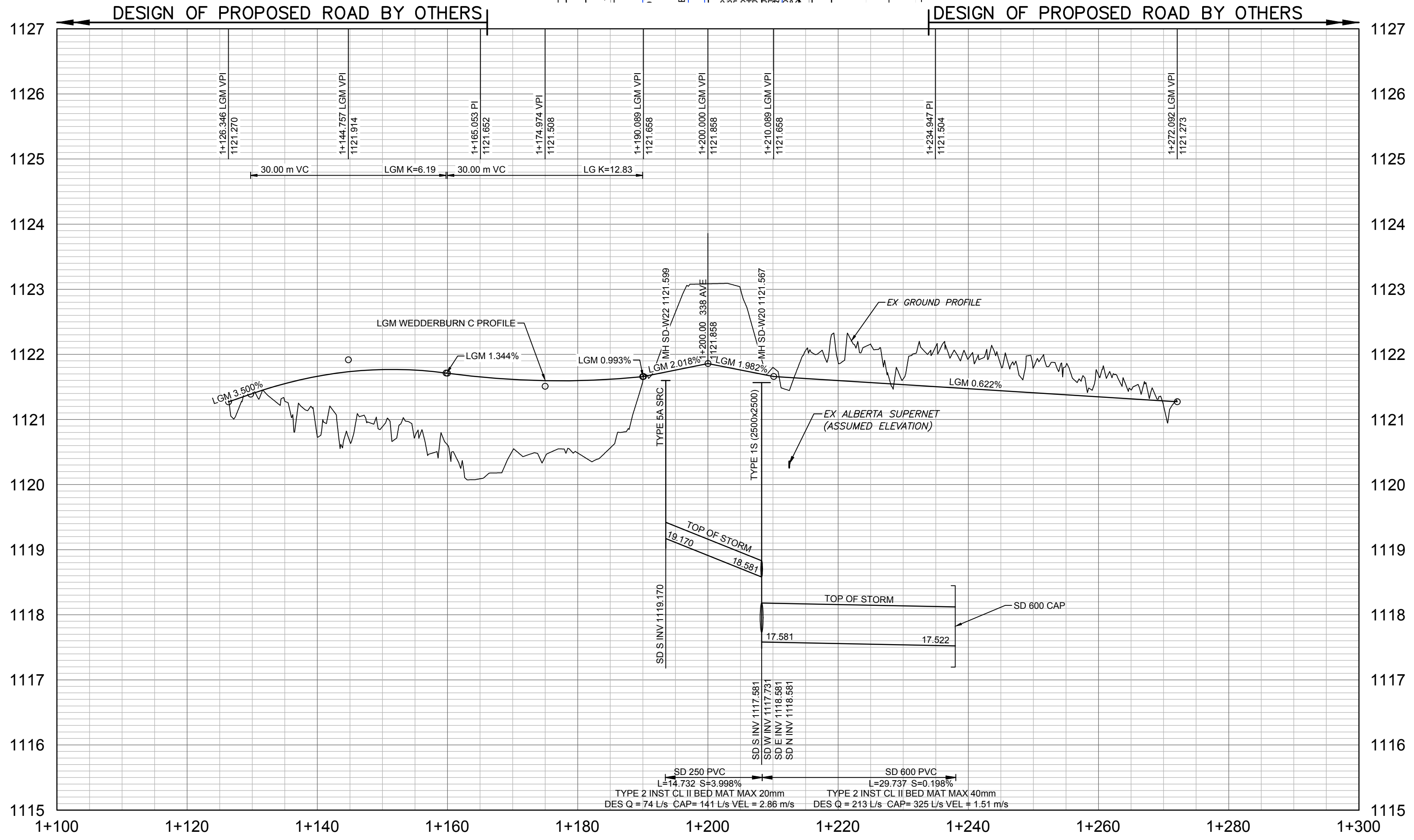


FILE: C:\USERS\ROD\GARIB31\BDO\ACCD\CS\ARCADIS\ACC USACA-001\8875-P119.DWG | DATE: June 13, 2025 11:43:56 AM



NOTE: REFER TO THE LANDSCAPE DRAWINGS FOR ALL DETAILS WITHIN THE BOULEVARD AND MEDIAN.

NOTE: ALL SHALLOW UTILITIES TO BE MANUALLY EXPOSED & ELEVATIONS CONFIRMED IN THE FIELD.



## NOTES

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8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.
9. PRIOR TO CULVERT INSTALLATION, IT IS RECOMMENDED THAT THE LOCATION AND INVERTS ARE COORDINATED BETWEEN THE DEVELOPERS TO THE NORTH AND SOUTH OF 338 AVENUE.

NOT FOR CONSTRUCTION



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tel 403 270 5600  
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NAD 83  
COORDINATES

| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |
|-----|-------------------------------|----------------------|----|------|
| D   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| C   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| B   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |
| A   | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17           | KB | AH   |

|                                                                                 |                      |
|---------------------------------------------------------------------------------|----------------------|
| PERMIT                                                                          | DATE<br>(YYYY-MM-DD) |
| SEAL                                                                            |                      |
| PERMIT TO PRACTICE                                                              |                      |
| ARCADIS PROFESSIONAL SERVICES (CANADA) INC.                                     |                      |
| RM SIGNATURE:                                                                   | DATE                 |
| RM APEGA ID # 80331                                                             | 2025-06-13           |
| PERMIT NUMBER: P013381                                                          |                      |
| The Association of Professional Engineers and Geoscientists of Alberta (APEGGA) |                      |

| DESIGNED | BY            | DATE<br>(YYYY-MM-DD) |
|----------|---------------|----------------------|
| DRAWN    | DM            | 2024-07-15           |
| CHECKED  | DM            | 2024-07-15           |
|          | KB            | 2024-07-15           |
| SCALE    | 1:500 (HORIZ) | 0 10 20 m            |
|          | 1:50 (VERT)   | 0 1 2 m              |



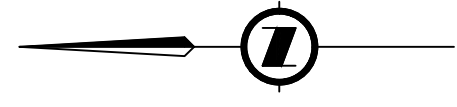
PROJECT  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTAKS, AB**

SHEET TITLE  
**PLAN PROFILE  
WEDDERBURN ROAD C**

|                 |                      |
|-----------------|----------------------|
| WORK ORDER NO.  | ACTIVITY NO.         |
| FILE NO.        | ENG DWG NO.          |
| 138875-P119.dwg |                      |
| SHEET ID.       | SHEET NO.            |
| P119            | 19                   |
| BY              | DATE<br>(YYYY-MM-DD) |
| DRAWN           | PROFILE NO.          |

ISC: SHEET SIZE ANSI D 25 mm





**NOTE: ALL SHALLOW UTILITIES TO BE MANUALLY EXPOSED & ELEVATIONS CONFIRMED IN THE FIELD.**



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NAD 83  
COORDINATES

|     |                               |                      |    |      |
|-----|-------------------------------|----------------------|----|------|
| D   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| C   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| B   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |
| A   | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17           | KB | AH   |
| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |

|                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>PERMIT</b></p> <p style="text-align: center;"><b>PERMIT TO PRACTICE</b></p> <p style="text-align: center;">ARCADIS PROFESSIONAL SERVICES (CANADA) INC.</p> <p>RM SIGNATURE: <u>[Signature]</u></p> <p>RM APEGA ID #: <b>80331</b></p> <p>DATE: <b>2025-06-13</b></p> <p><b>PERMIT NUMBER: P013381</b></p> <p>The Association of Professional Engineers and<br/>Geoscientists of Alberta (APEGA)</p> | <p><b>SEAL</b></p>  <p>The seal is circular with the text "PROFESSIONAL ENGINEER ALBERTA" around the perimeter. Inside, it says "R. TYLER BAGG", "ID 276594", and "2025-06-13". A signature is written across the seal.</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|          |                                                                                                                                                                                                         | BY | DATE<br>(YYYY-MM-DD) |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------------------|
| DESIGNED |                                                                                                                                                                                                         | DM | 2024-07-15           |
| DRAWN    |                                                                                                                                                                                                         | DM | 2024-07-15           |
| CHECKED  |                                                                                                                                                                                                         | KB | 2024-07-15           |
| SCALE    | 1:500 (HORZ) <br>1:50 (VERT)  |    |                      |



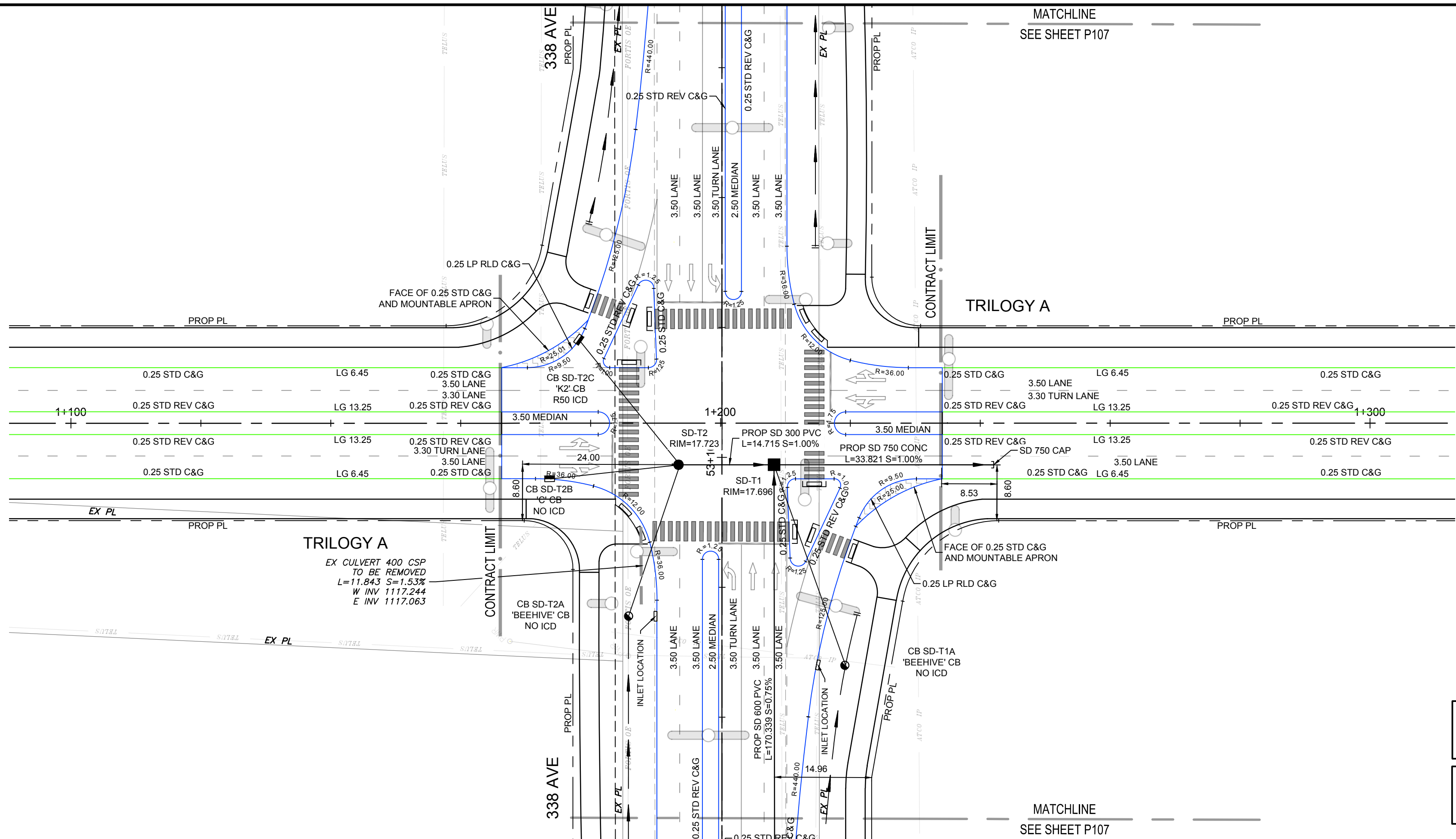
|         |                                                                                      |
|---------|--------------------------------------------------------------------------------------|
| PROJECT | <b>338 AVE ROAD IMPROVEMENTS</b><br><b>DETAILED DESIGN</b><br><br><b>OKOTOKS, AB</b> |
|---------|--------------------------------------------------------------------------------------|

SHEET TITLE

**PLAN PROFILE  
WEDDERBURN ROAD D**

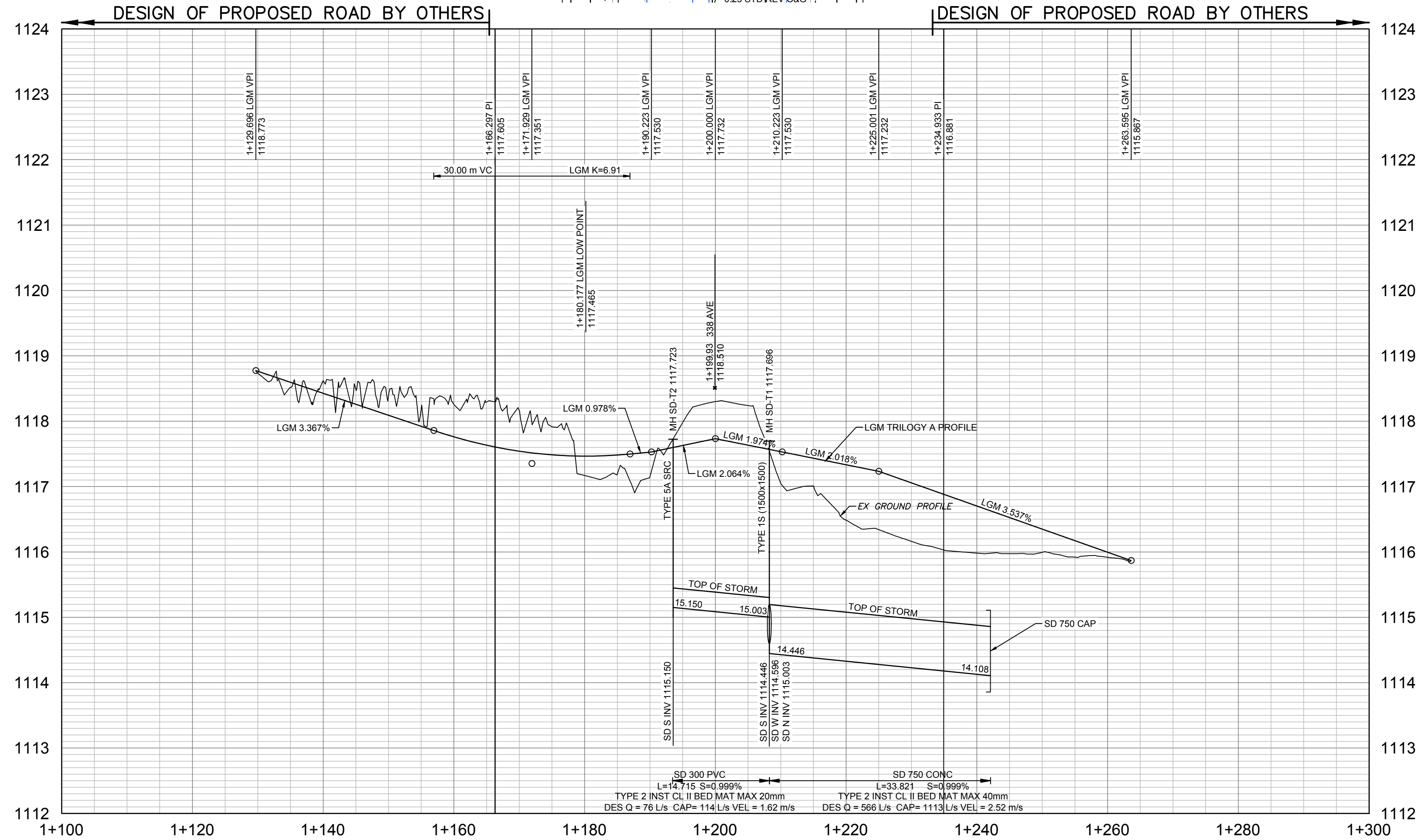
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| WORK ORDER NO.              |    | ACTIVITY NO.           |             |
|                             |    | 138875                 |             |
| FILE NO.<br>138875-P120.dwg |    | ENG DWG NO.            |             |
| SHEET ID.<br><b>P120</b>    |    | SHEET NO.<br><b>20</b> |             |
|                             | BY | DATE<br>(YYYY-MM-DD)   | PROFILE NO. |
| DRAWN                       |    |                        |             |





NOTE: REFER TO THE LANDSCAPE DRAWINGS FOR ALL DETAILS WITHIN THE BOULEVARD AND MEDIAN.

NOTE: ALL SHALLOW UTILITIES TO BE MANUALLY EXPOSED & ELEVATIONS CONFIRMED IN THE FIELD.



## NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING 0003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.
9. PRIOR TO CULVERT INSTALLATION, IT IS RECOMMENDED THAT THE LOCATION AND INVERTS ARE COORDINATED BETWEEN THE DEVELOPERS TO THE NORTH AND SOUTH OF 338 AVENUE.

NOT FOR CONSTRUCTION



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tel 403 270 5600  
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NAD 83  
COORDINATES

| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |
|-----|-------------------------------|----------------------|----|------|
| D   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| C   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| B   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |
| A   | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17           | KB | AH   |

|                                                                                                                                                                                                                                                          |  |                      |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------|--|
| PERMIT                                                                                                                                                                                                                                                   |  | SEAL                 |  |
| <b>PERMIT TO PRACTICE</b><br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE:<br>RM APEGA ID #: 80331<br>DATE: 2025-06-13<br><b>PERMIT NUMBER: P013381</b><br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |  |                      |  |
| BY                                                                                                                                                                                                                                                       |  | DATE<br>(YYYY-MM-DD) |  |
| DESIGNED                                                                                                                                                                                                                                                 |  | 2024-07-15           |  |
| DRAWN                                                                                                                                                                                                                                                    |  | 2024-07-15           |  |
| CHECKED                                                                                                                                                                                                                                                  |  | 2024-07-15           |  |

|       |               |   |    |      |
|-------|---------------|---|----|------|
| SCALE | 1:500 (HORIZ) | 0 | 10 | 20 m |
|       | 1:50 (VERT)   | 0 | 1  | 2 m  |



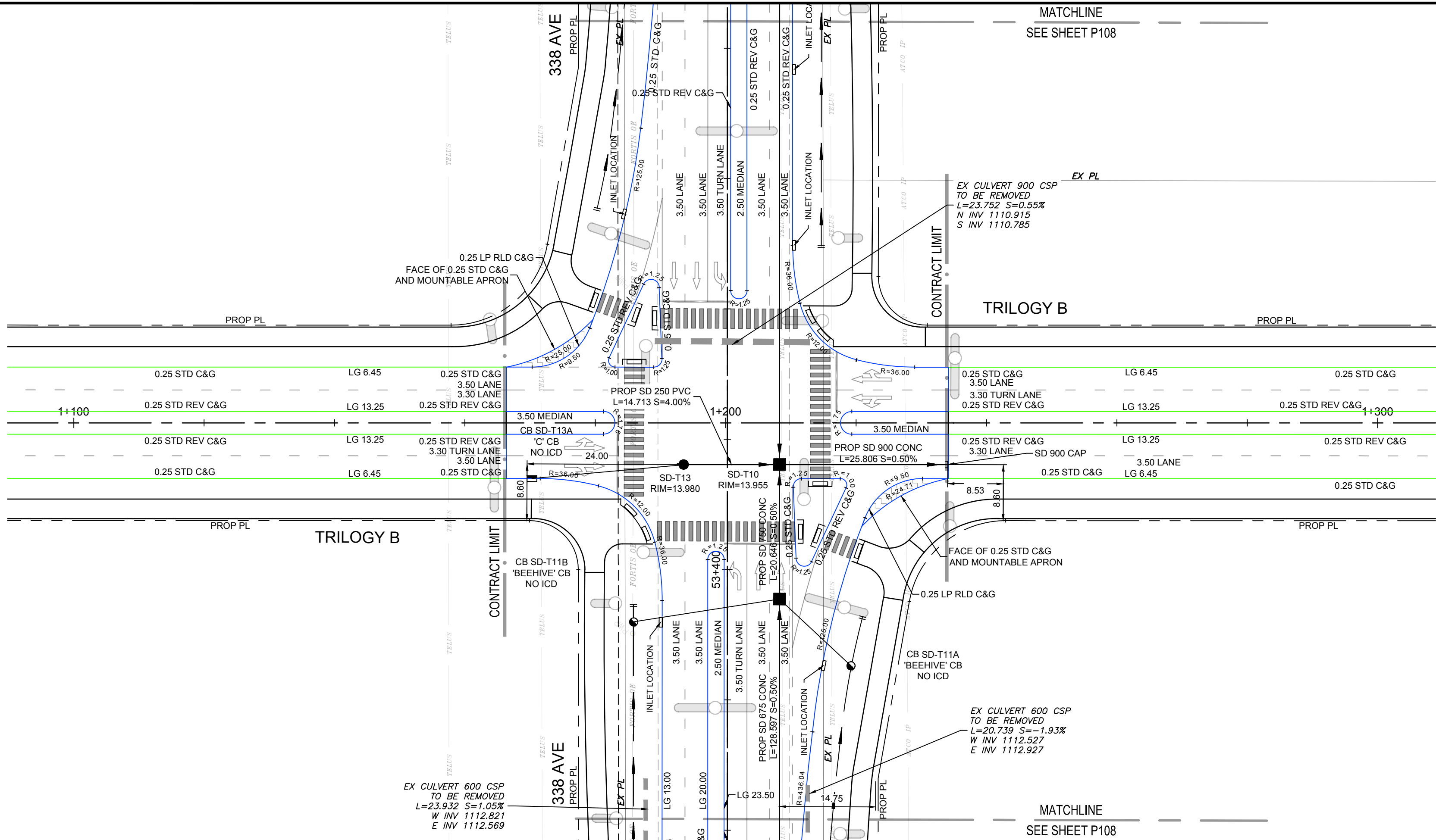
PROJECT  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTAKS, AB**

SHEET TITLE  
**PLAN PROFILE  
TRILOGY ROAD A**

|                |                      |
|----------------|----------------------|
| WORK ORDER NO. | ACTIVITY NO.         |
| FILE NO.       | ENG DWG NO.          |
| SHEET ID.      | SHEET NO.            |
| BY             | DATE<br>(YYYY-MM-DD) |
| DRAWN          | PROFILE NO.          |

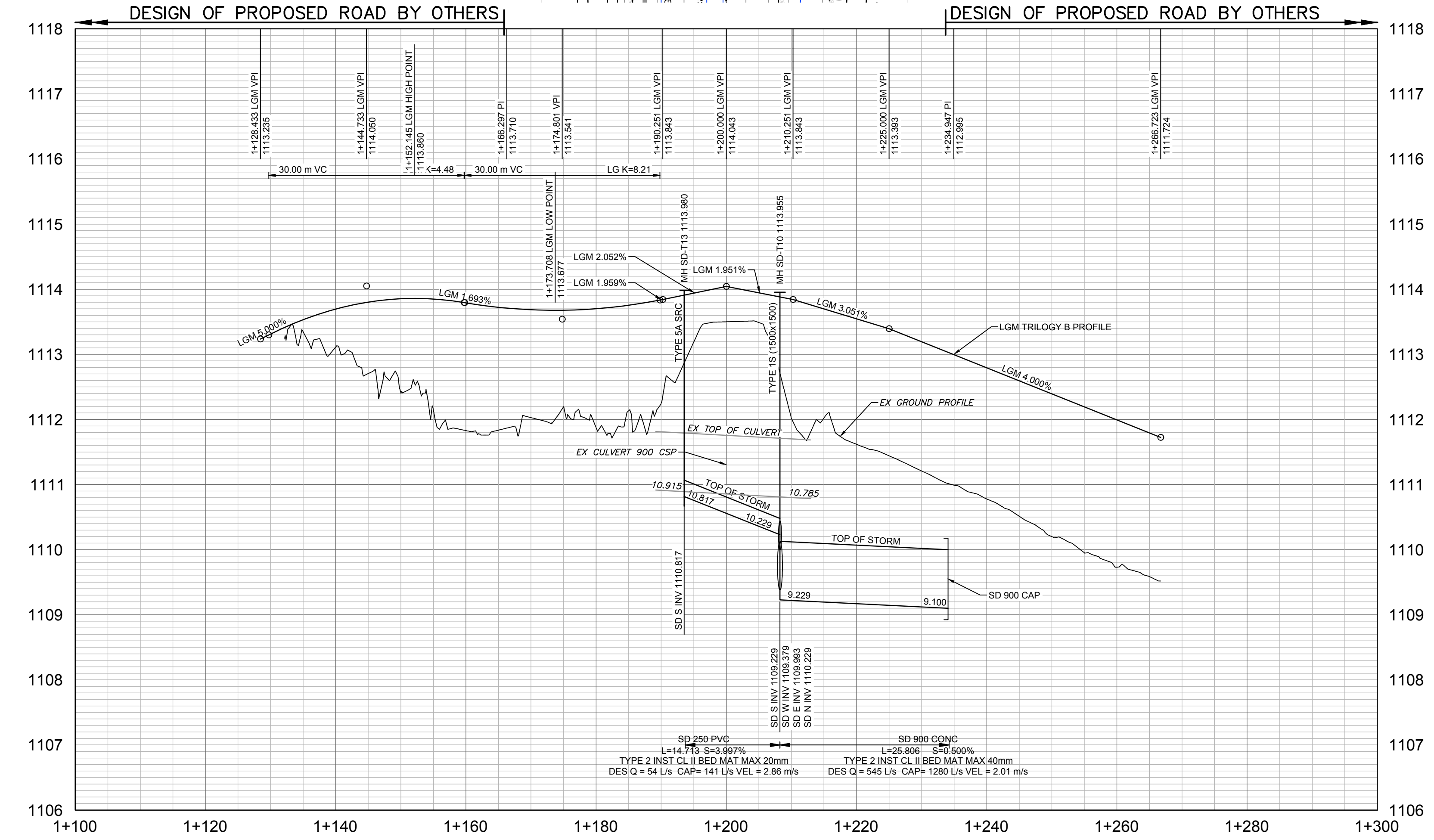


FILE: C:\USERS\ROD\GARIB3\BDO\ACCD\OS\ARCADIS\ACC USACA-001\8875-338 AVE\PROJECT FILES\7\_PRODDOC\7.03\_DESIGN\04\_CIVIL\SHEETS\138875-P122.DWG | DATE: June 13, 2025 11:46:18 AM



NOTE: REFER TO THE LANDSCAPE DRAWINGS FOR ALL DETAILS WITHIN THE BOULEVARD AND MEDIAN.

NOTE: ALL SHALLOW UTILITIES TO BE MANUALLY EXPOSED & ELEVATIONS CONFIRMED IN THE FIELD.



## NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING 0003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
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6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.
9. PRIOR TO CULVERT INSTALLATION, IT IS RECOMMENDED THAT THE LOCATION AND INVERTS ARE COORDINATED BETWEEN THE DEVELOPERS TO THE NORTH AND SOUTH OF 338 AVENUE.

NOT FOR CONSTRUCTION



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NAD 83

COORDINATES

| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |
|-----|-------------------------------|----------------------|----|------|
| D   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| C   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| B   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |
| A   | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17           | KB | AH   |

|                                                                                |                      |    |      |
|--------------------------------------------------------------------------------|----------------------|----|------|
| PERMIT                                                                         | DATE<br>(YYYY-MM-DD) | BY | APPD |
| PERMIT TO PRACTICE                                                             | 2025-06-13           | KB | AH   |
| ARCADIS PROFESSIONAL SERVICES (CANADA) INC.                                    |                      |    |      |
| RM SIGNATURE:                                                                  |                      |    |      |
| RM APEGA ID #                                                                  | 80331                |    |      |
| DATE                                                                           | 2025-06-13           |    |      |
| PERMIT NUMBER:                                                                 | P013381              |    |      |
| The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |                      |    |      |

|          |              |                      |            |
|----------|--------------|----------------------|------------|
| DESIGNED | DM           | DATE<br>(YYYY-MM-DD) | 2024-07-15 |
| DRAWN    | DM           | DATE<br>(YYYY-MM-DD) | 2024-07-15 |
| CHECKED  | KB           | DATE<br>(YYYY-MM-DD) | 2024-07-15 |
| SCALE    | 1:500 (HORZ) | 0 10 20 m            |            |
|          | 1:50 (VERT)  | 0 1 2 m              |            |



PROJECT  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTOKS, AB**

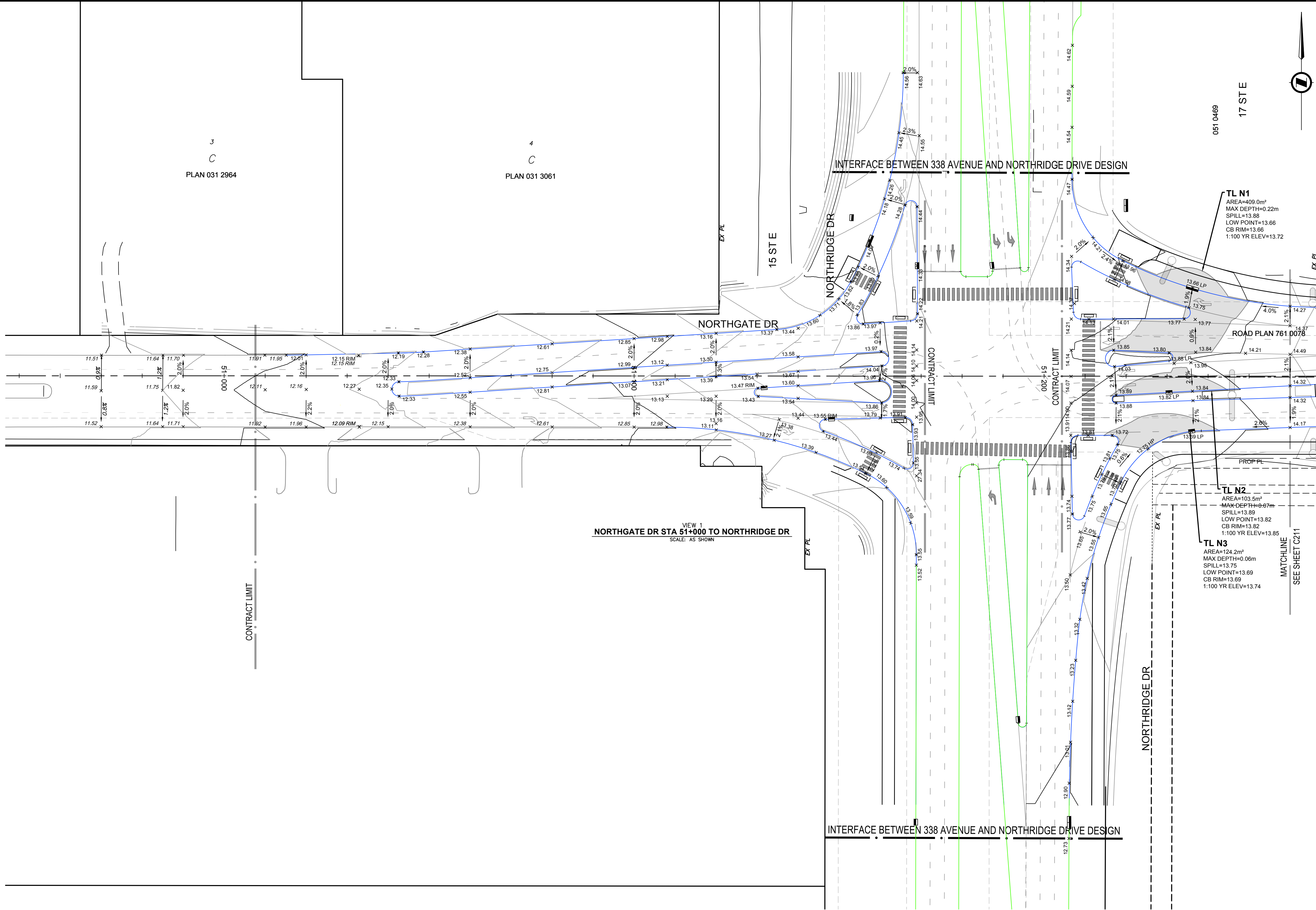
SHEET TITLE  
**PLAN PROFILE  
TRILOGY ROAD B**

|                      |              |
|----------------------|--------------|
| WORK ORDER NO.       | ACTIVITY NO. |
| FILE NO.             | ENG DWG NO.  |
| 138875-P122.dwg      |              |
| SHEET ID.            | SHEET NO.    |
| P122                 | 22           |
| DATE<br>(YYYY-MM-DD) | PROFILE NO.  |
| BY                   |              |
| DRAWN                |              |

ISC: SHEET SIZE ANSI D 25 mm



FILE: C:\USERS\ROD\GARIB31\BDO\ACCD\OS\ARCADIS\ACC USACA-01\8875-C210.DWG | DATE: June 13, 2025 12:22:58 PM



### NOTES

- ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
- REFER TO LEGEND DRAWING 0003 FOR SURFACE AND LINE DESCRIPTIONS.
- WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
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NOT FOR CONSTRUCTION

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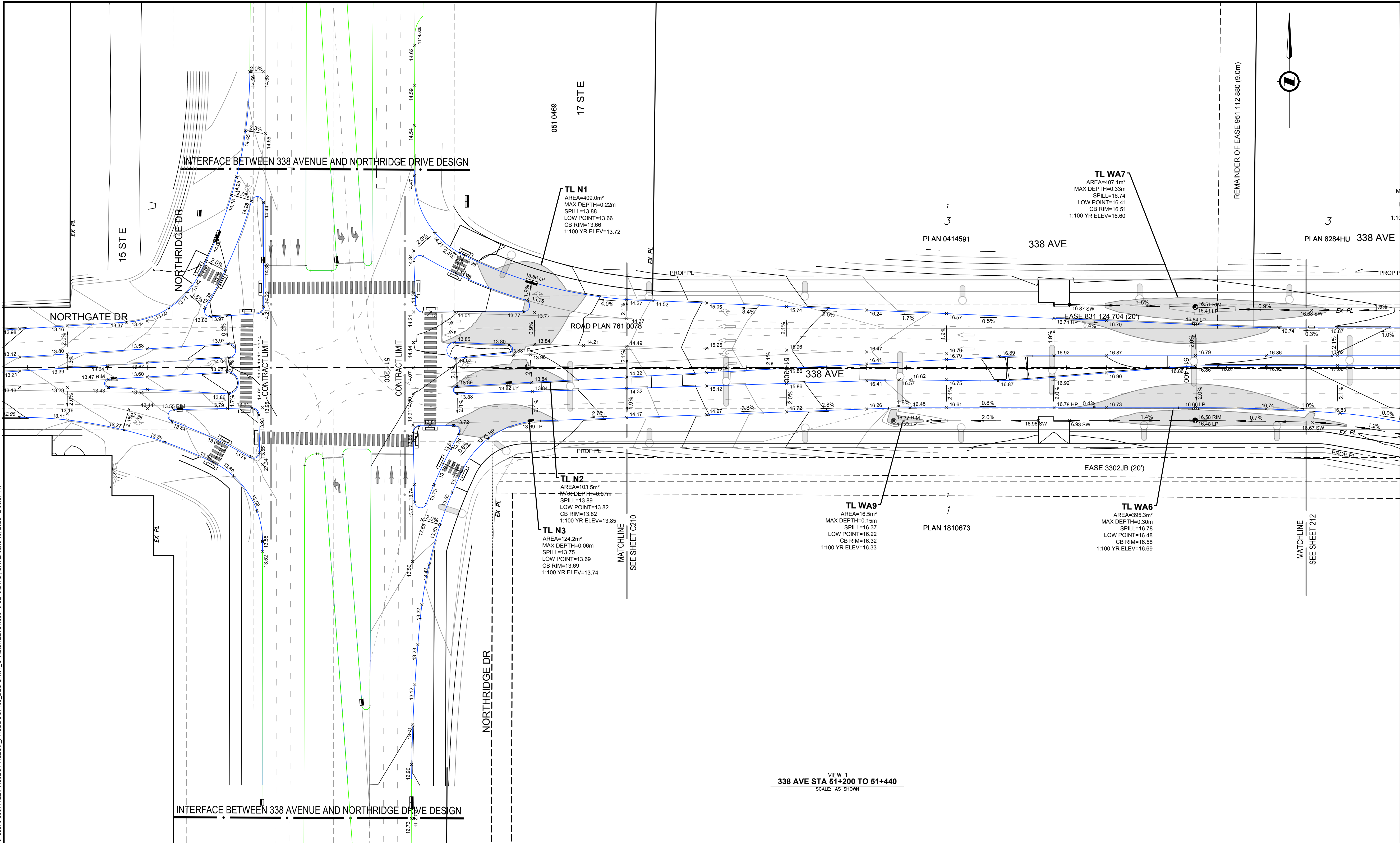
NAD 83  
COORDINATES

|                                                                                                                                                                                                                                                                         |                               |                        |             |      |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------|-------------|------|--|
|                                                                                                                                                                                                                                                                         |                               |                        |             |      |  |
| C                                                                                                                                                                                                                                                                       | ISSUED FOR 100% DESIGN        | 2025-06-13             | KB          | AH   |  |
| B                                                                                                                                                                                                                                                                       | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30             | KB          | AH   |  |
| A                                                                                                                                                                                                                                                                       | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22             | KB          | AH   |  |
| NO.                                                                                                                                                                                                                                                                     | DESCRIPTION                   | DATE (YYYY-MM-DD)      | BY          | APPD |  |
| PERMIT                                                                                                                                                                                                                                                                  |                               | SEAL                   |             |      |  |
| <div>PERMIT TO PRACTICE<br/>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br/>RM SIGNATURE: [Signature]<br/>RM APEGA ID # 80331<br/>DATE: 2025-06-13<br/>PERMIT NUMBER: P013381<br/>The Association of Professional Engineers and Geoscientists of Alberta (APEGAB)</div> |                               |                        |             |      |  |
|                                                                                                                                                                                                                                                                         | BY                            | DATE (YYYY-MM-DD)      |             |      |  |
| DESIGNED                                                                                                                                                                                                                                                                | DM                            | 2024-07-15             |             |      |  |
| DRAWN                                                                                                                                                                                                                                                                   | DM                            | 2024-07-15             |             |      |  |
| CHECKED                                                                                                                                                                                                                                                                 | KB                            | 2024-07-15             |             |      |  |
| SCALE                                                                                                                                                                                                                                                                   |                               | 0 10 20 m<br>1:500     |             |      |  |
|                                                                                                                                                                                                                                                                         |                               |                        |             |      |  |
| PROJECT<br>338 AVE ROAD IMPROVEMENTS<br>DETAILED DESIGN<br>OKOTAKS, AB                                                                                                                                                                                                  |                               |                        |             |      |  |
| SHEET TITLE<br>PAVEMENT ELEVATIONS<br>NORTHGATE DR<br>STA 51+000 - NORTHRIDGE DR                                                                                                                                                                                        |                               |                        |             |      |  |
| WORK ORDER NO.                                                                                                                                                                                                                                                          |                               | ACTIVITY NO.<br>138875 |             |      |  |
| FILE NO.<br>138875-C210.dwg                                                                                                                                                                                                                                             |                               | ENG DWG NO.            |             |      |  |
| SHEET ID.<br>C210                                                                                                                                                                                                                                                       |                               | SHEET NO.<br>23        |             |      |  |
|                                                                                                                                                                                                                                                                         | BY                            | DATE (YYYY-MM-DD)      | PROFILE NO. |      |  |
| DRAWN                                                                                                                                                                                                                                                                   |                               |                        |             |      |  |

ISC: SHEET SIZE ANSI D 25 mm



FILE: C:\USERS\ROD\GARIB1\BDO\ACCD\OS\ARCADIS\ACC USACA-01\18875-338 AVE\PROJECT FILES\PRODDOC\7.05 DESIGN\04\_CIVIL\SHEETS\18875-C210.DWG [DATE: June 13, 2025 12:30:07 PM]



### NOTES

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NAD 83  
COORDINATES

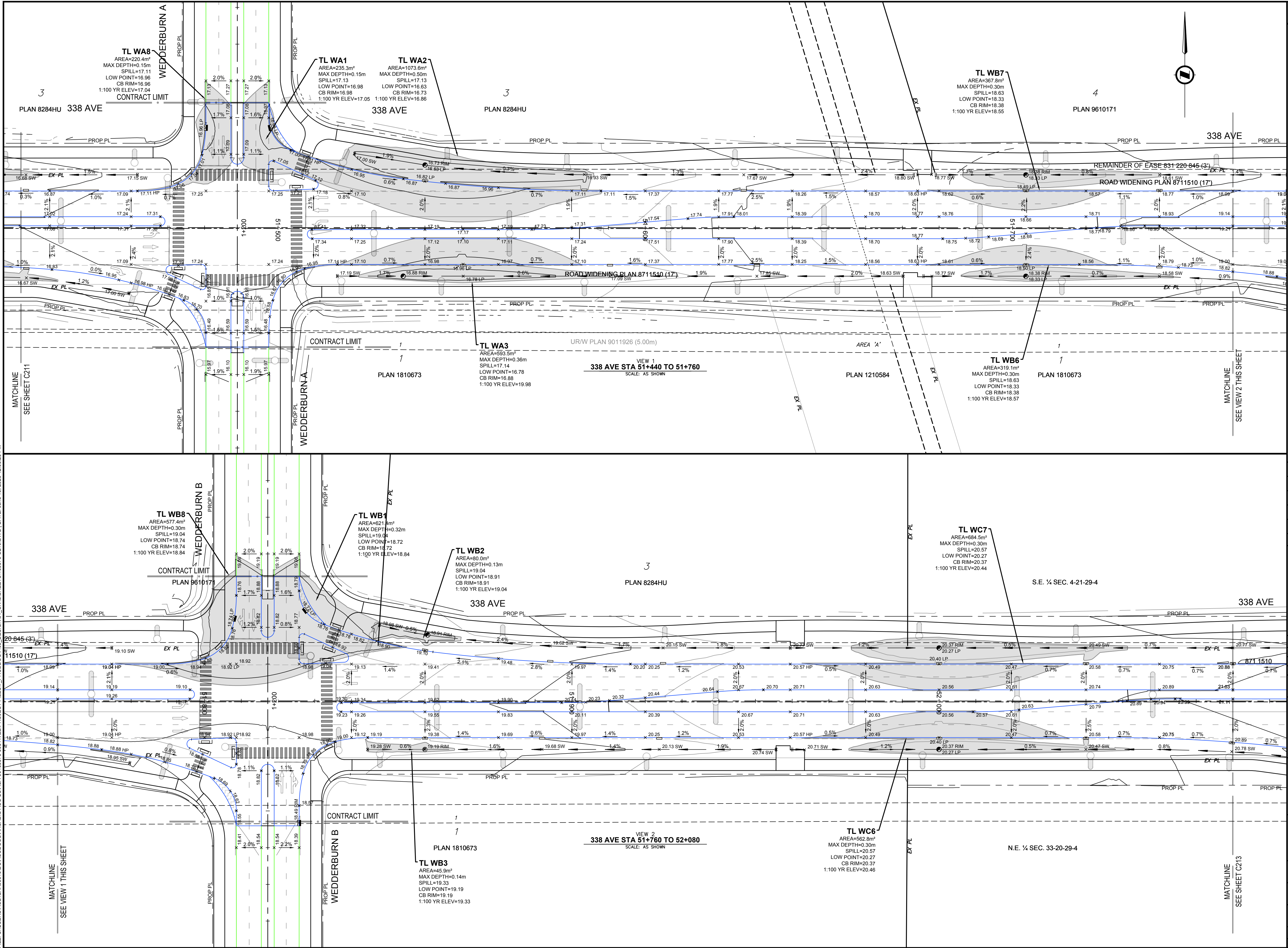
|                                                                                                                                                                                                                                            |                               |                        |            |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------|------------|-------------|
| D                                                                                                                                                                                                                                          | ISSUED FOR 100% DESIGN        | 2025-06-13             | KB         | AH          |
| C                                                                                                                                                                                                                                          | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30             | KB         | AH          |
| B                                                                                                                                                                                                                                          | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22             | KB         | AH          |
| A                                                                                                                                                                                                                                          | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17             | KB         | AH          |
| NO.                                                                                                                                                                                                                                        | DESCRIPTION                   | DATE<br>(YYYY-MM-DD)   | BY         | APPD        |
| PERMIT                                                                                                                                                                                                                                     |                               | SEAL                   |            |             |
| PERMIT TO PRACTICE<br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE:<br>RM APEGA ID #: 80331<br>DATE: 2025-06-13<br>PERMIT NUMBER: P013381<br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |                               |                        |            |             |
| DESIGNED                                                                                                                                                                                                                                   | DM                            | DATE<br>(YYYY-MM-DD)   | 2024-07-15 |             |
| DRAWN                                                                                                                                                                                                                                      | DM                            | DATE<br>(YYYY-MM-DD)   | 2024-07-15 |             |
| CHECKED                                                                                                                                                                                                                                    | KB                            | DATE<br>(YYYY-MM-DD)   | 2024-07-15 |             |
| SCALE<br>0 10 20 m<br>1:500                                                                                                                                                                                                                |                               |                        |            |             |
|                                                                                                                                                                                                                                            |                               |                        |            |             |
| PROJECT<br>338 AVE ROAD IMPROVEMENTS<br>DETAILED DESIGN<br>OKOTAKS, AB                                                                                                                                                                     |                               |                        |            |             |
| SHEET TITLE<br>PAVEMENT ELEVATIONS<br>338 AVE<br>STA 51+200 TO 51+440                                                                                                                                                                      |                               |                        |            |             |
| WORK ORDER NO.                                                                                                                                                                                                                             |                               | ACTIVITY NO.<br>138875 |            |             |
| FILE NO.<br>138875-C210.dwg                                                                                                                                                                                                                |                               | ENG DWG NO.            |            |             |
| SHEET ID.<br>C211                                                                                                                                                                                                                          |                               | SHEET NO.<br>24        |            |             |
| BY                                                                                                                                                                                                                                         |                               | DATE<br>(YYYY-MM-DD)   |            | PROFILE NO. |
| DRAWN                                                                                                                                                                                                                                      |                               |                        |            |             |

ISC: SHEET SIZE ANSI D 25 mm

VIEW 1  
338 AVE STA 51+200 TO 51+440  
SCALE: AS SHOWN



FILE: C:\USERS\ROD\GARIB31\BDO\ACCD\OS\ARCADIS\ACC USACA-01\8875-338 AVE\PROJECT FILES\PRODDOT\03 DESIGN\04 CIVIL\SHEETS\18875-C210.DWG [DATE: June 13, 2025 12:33:23 PM]



## NOTES

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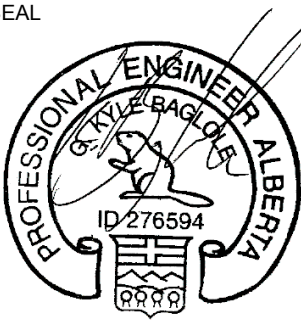
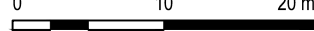
NOT FOR CONSTRUCTION



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tel 403 270 5600  
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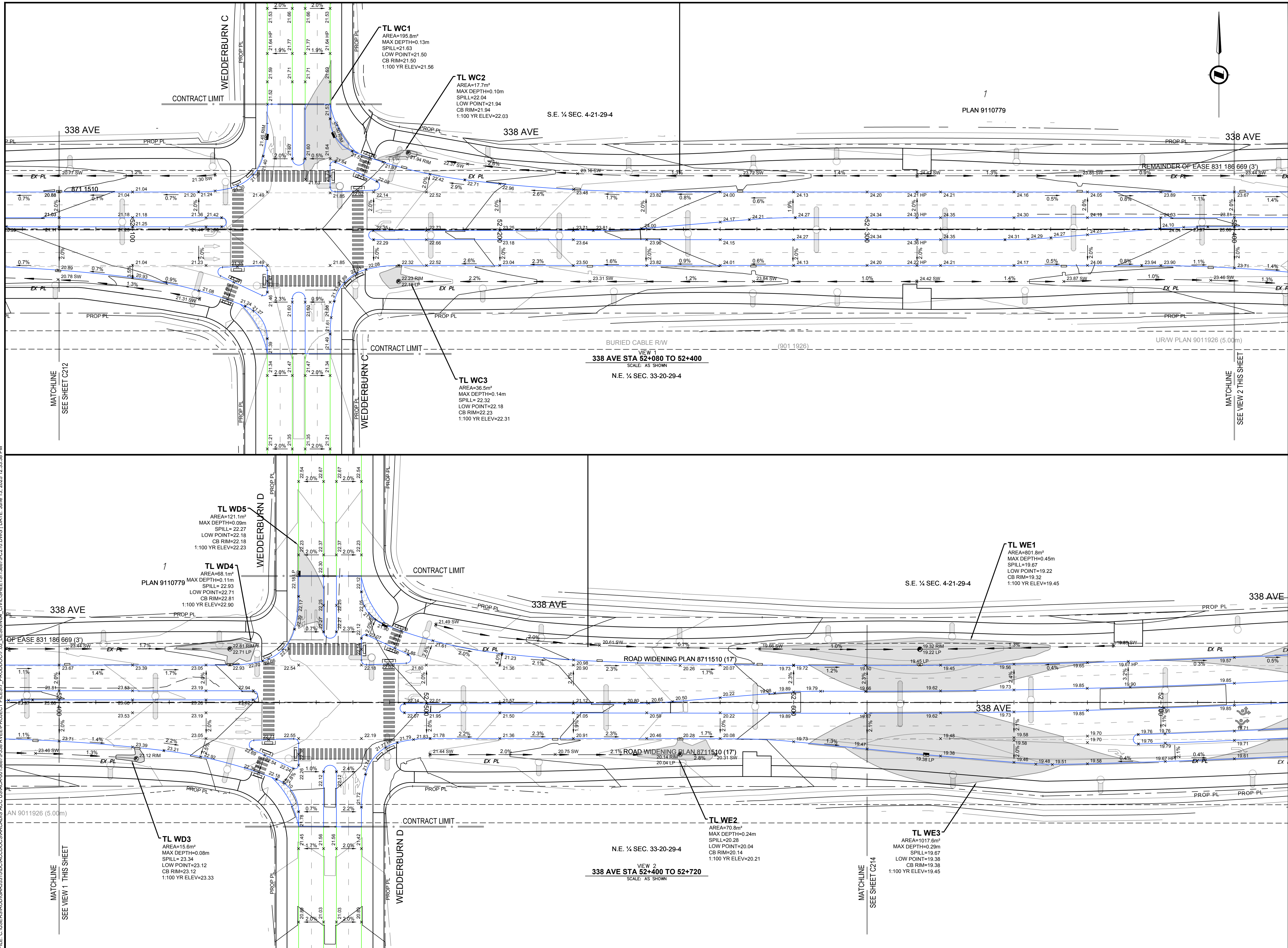
NAD 83  
COORDINATES

|                                                                                                                                                                                                                                                                                                                                                                        |                               |                                                                                                                 |                      |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------|-------------|
|                                                                                                                                                                                                                                                                                                                                                                        |                               |                                                                                                                 |                      |             |
| D                                                                                                                                                                                                                                                                                                                                                                      | ISSUED FOR 100% DESIGN        | 2025-06-13                                                                                                      | KB                   | AH          |
| C                                                                                                                                                                                                                                                                                                                                                                      | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30                                                                                                      | KB                   | AH          |
| B                                                                                                                                                                                                                                                                                                                                                                      | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22                                                                                                      | KB                   | AH          |
| A                                                                                                                                                                                                                                                                                                                                                                      | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17                                                                                                      | KB                   | AH          |
| NO.                                                                                                                                                                                                                                                                                                                                                                    | DESCRIPTION                   | DATE<br>(YYYY-MM-DD)                                                                                            | BY                   | APPD        |
| PERMIT                                                                                                                                                                                                                                                                                                                                                                 |                               | SEAL                                                                                                            |                      |             |
| <div>PERMIT TO PRACTICE<br/>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br/>RM SIGNATURE: <br/>RM APEGA ID # <u>80331</u><br/>DATE: <u>2025-06-13</u><br/>PERMIT NUMBER: <b>P013381</b><br/>The Association of Professional Engineers and Geoscientists of Alberta (APEGGA)</div> |                               | <div><br/>2025-06-13</div> |                      |             |
|                                                                                                                                                                                                                                                                                                                                                                        |                               | BY                                                                                                              | DATE<br>(YYYY-MM-DD) |             |
| DESIGNED                                                                                                                                                                                                                                                                                                                                                               |                               | DM                                                                                                              | 2024-07-15           |             |
| DRAWN                                                                                                                                                                                                                                                                                                                                                                  |                               | DM                                                                                                              | 2024-07-15           |             |
| CHECKED                                                                                                                                                                                                                                                                                                                                                                |                               | KB                                                                                                              | 2024-07-15           |             |
| SCALE                                                                                                                                                                                                                                                                                                                                                                  |                               |                                                                                                                 |                      |             |
| 1:500  0 10 20 m                                                                                                                                                                                                                                                                  |                               |                                                                                                                 |                      |             |
|                                                                                                                                                                                                                                                                                   |                               |                                                                                                                 |                      |             |
| PROJECT                                                                                                                                                                                                                                                                                                                                                                |                               |                                                                                                                 |                      |             |
| 338 AVE ROAD IMPROVEMENTS<br>DETAILED DESIGN<br><br>OKOTOKS, AB                                                                                                                                                                                                                                                                                                        |                               |                                                                                                                 |                      |             |
| SHEET TITLE                                                                                                                                                                                                                                                                                                                                                            |                               |                                                                                                                 |                      |             |
| PAVEMENT ELEVATIONS<br>338 AVE<br>STA 51+440 - 52+080                                                                                                                                                                                                                                                                                                                  |                               |                                                                                                                 |                      |             |
| WORK ORDER NO.                                                                                                                                                                                                                                                                                                                                                         |                               | ACTIVITY NO.                                                                                                    |                      |             |
|                                                                                                                                                                                                                                                                                                                                                                        |                               | 138875                                                                                                          |                      |             |
| FILE NO.                                                                                                                                                                                                                                                                                                                                                               |                               | ENG DWG NO.                                                                                                     |                      |             |
| 138875-C210.dwg                                                                                                                                                                                                                                                                                                                                                        |                               |                                                                                                                 |                      |             |
| SHEET ID.                                                                                                                                                                                                                                                                                                                                                              |                               | SHEET NO.                                                                                                       |                      |             |
| C212                                                                                                                                                                                                                                                                                                                                                                   |                               | 25                                                                                                              |                      |             |
| BY                                                                                                                                                                                                                                                                                                                                                                     |                               | DATE<br>(YYYY-MM-DD)                                                                                            |                      | PROFILE NO. |
| DRAWN                                                                                                                                                                                                                                                                                                                                                                  |                               |                                                                                                                 |                      |             |

ISC: SHEET SIZE ANSI D 25 mm



FILE: C:\USERS\ROD\GARIB31\BDO\ACCD\OS\ARCADIS\ACC USACA-001\8875-338 AVE\PROJECT FILES\PRODUCT\03 DESIGN\04 CIVIL\SHEETS\18875-C210.DWG | DATE: June 13, 2025 12:33:38 PM



### NOTES

- ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
- REFER TO LEGEND DRAWING 0003 FOR SURFACE AND LINE DESCRIPTIONS.
- WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
- UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
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- PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
- CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.

NOT FOR CONSTRUCTION

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NAD 83  
COORDINATES

|                                                                        |                               |                                                                                |            |             |
|------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------------------------|------------|-------------|
| D                                                                      | ISSUED FOR 100% DESIGN        | 2025-06-13                                                                     | KB         | AH          |
| C                                                                      | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30                                                                     | KB         | AH          |
| B                                                                      | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22                                                                     | KB         | AH          |
| A                                                                      | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17                                                                     | KB         | AH          |
| NO.                                                                    | DESCRIPTION                   | DATE (YYYY-MM-DD)                                                              | BY         | APPD        |
| PERMIT                                                                 |                               | SEAL                                                                           |            |             |
| PERMIT TO PRACTICE                                                     |                               | ARCADIS PROFESSIONAL SERVICES (CANADA) INC.                                    |            |             |
| RM SIGNATURE:                                                          |                               | RM APEGA ID # 80331                                                            |            |             |
| DATE:                                                                  |                               | 2025-06-13                                                                     |            |             |
| PERMIT NUMBER: P013381                                                 |                               | The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |            |             |
| DESIGNED                                                               | DM                            | DATE (YYYY-MM-DD)                                                              | 2024-07-15 |             |
| DRAWN                                                                  | DM                            | DATE (YYYY-MM-DD)                                                              | 2024-07-15 |             |
| CHECKED                                                                | KB                            | DATE (YYYY-MM-DD)                                                              | 2024-07-15 |             |
| SCALE                                                                  |                               | 1:500                                                                          |            |             |
|                                                                        |                               |                                                                                |            |             |
| PROJECT<br>338 AVE ROAD IMPROVEMENTS<br>DETAILED DESIGN<br>OKOTAKS, AB |                               |                                                                                |            |             |
| SHEET TITLE<br>PAVEMENT ELEVATIONS<br>338 AVE<br>STA 52+080 TO 52+720  |                               |                                                                                |            |             |
| WORK ORDER NO.                                                         |                               | ACTIVITY NO.                                                                   |            |             |
| FILE NO.                                                               |                               | 138875                                                                         |            |             |
| SHEET ID.                                                              |                               | C213                                                                           |            |             |
| BY                                                                     |                               | DATE (YYYY-MM-DD)                                                              |            | PROFILE NO. |
| DRAWN                                                                  |                               |                                                                                |            |             |

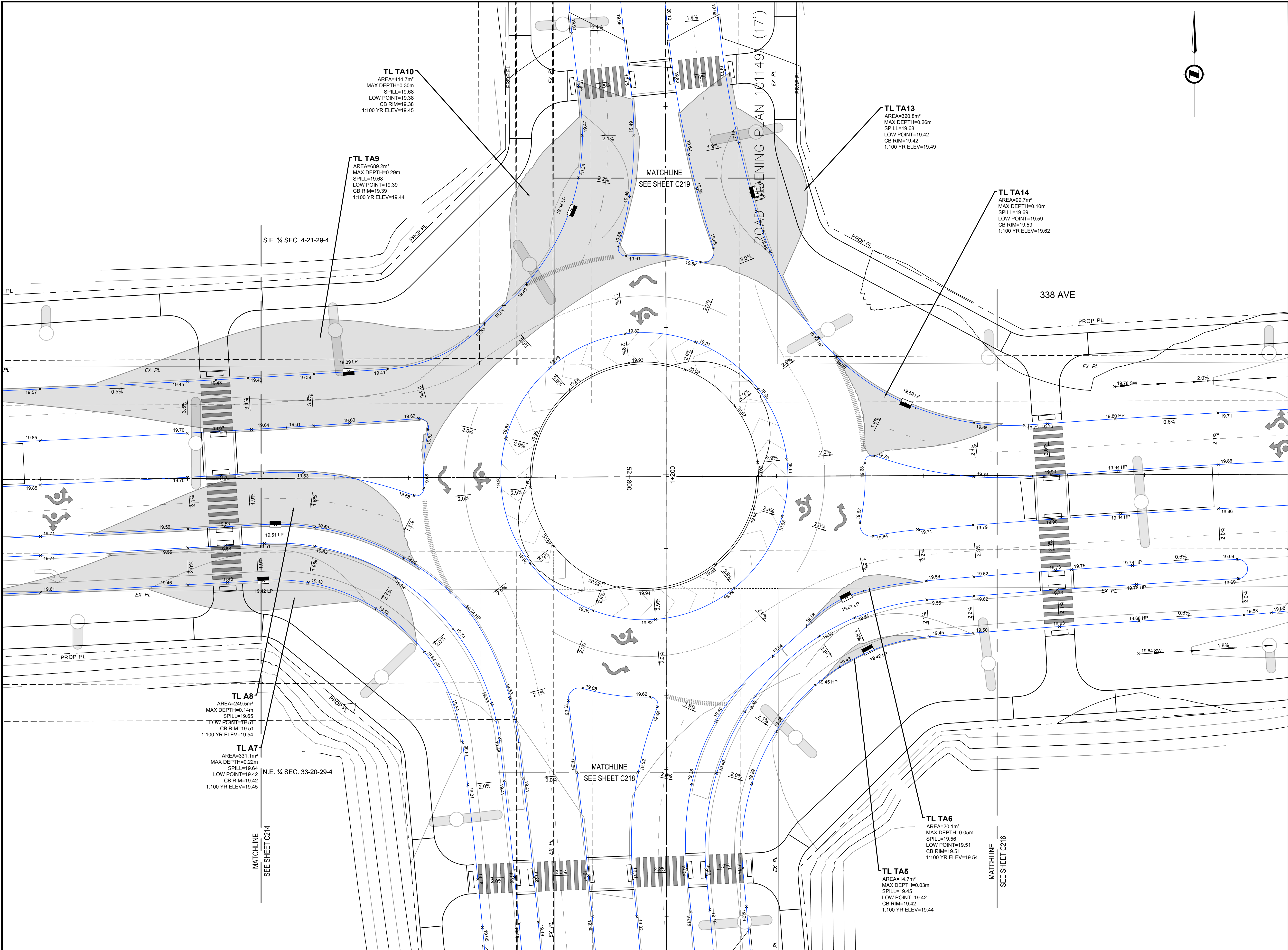
ISC: SHEET SIZE ANSI D 25 mm







FILE: C:\USERS\ROD\GARIB31\BDO\ACC\BDO\ARCADIS\ACC USACA-001\88875-338 AVE\PROJECT FILES\PRODDOC7\03\_DESIGN\04\_CIVIL\SHEETS\188875-C210.DWG | DATE: June 13, 2025 12:33:56 PM



## NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING G003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.

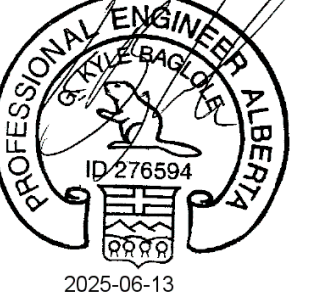


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tel 403 270 5600  
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NAD 83  
COORDINATES

|     |                               |                      |    |      |
|-----|-------------------------------|----------------------|----|------|
| D   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| C   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| B   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |
| A   | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17           | KB | AH   |
| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |

|                                                                                                                                                                                                                                                                                                                                                              |                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| PERMIT                                                                                                                                                                                                                                                                                                                                                       | SEAL                                                                                                |
| <b>PERMIT TO PRACTICE</b><br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE: <br>RM APEGA ID #: <b>80331</b><br>DATE: <b>2025-06-13</b><br><b>PERMIT NUMBER: P013381</b><br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) | <br>2025-06-13 |

|          |          |                      |
|----------|----------|----------------------|
| DESIGNED | DM       | DATE<br>(YYYY-MM-DD) |
| DRAWN    | DM       | 2024-07-15           |
| CHECKED  | KB       | 2024-07-15           |
| SCALE    | 0 5 10 m | 1:250                |



PROJECT  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTAKS, AB**

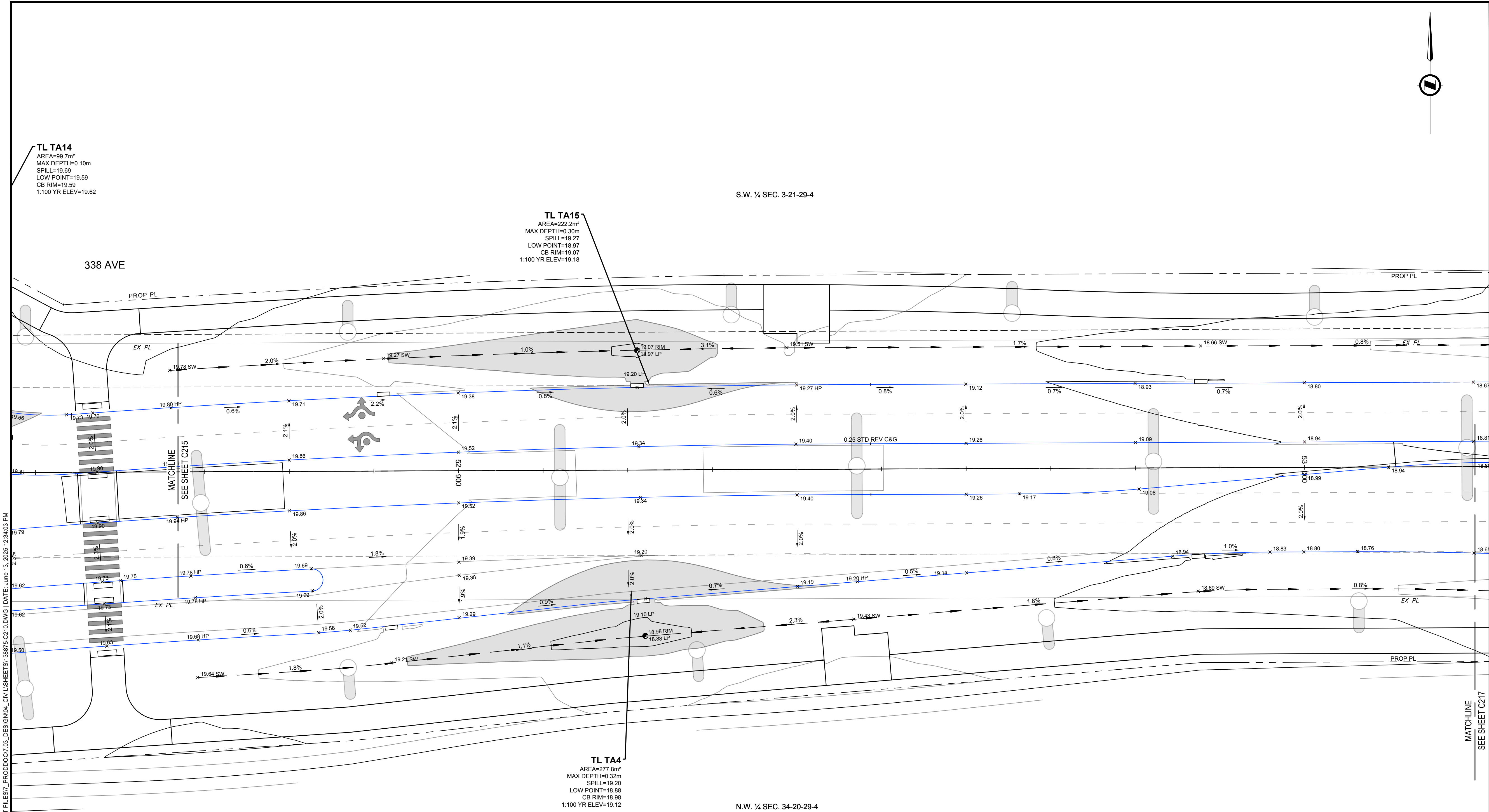
SHEET TITLE  
**ROUNDBOUT PAVEMENT ELEVATIONS  
2 OF 5  
338 AVE AND 32 ST**

|                                    |                              |
|------------------------------------|------------------------------|
| WORK ORDER NO.                     | ACTIVITY NO.                 |
| FILE NO.<br><b>138875-C210.dwg</b> | ENG DWG NO.<br><b>138875</b> |
| SHEET ID.<br><b>C215</b>           | SHEET NO.<br><b>28</b>       |
| DRAWN                              | DATE<br>(YYYY-MM-DD)         |
| BY                                 | DATE<br>(YYYY-MM-DD)         |
| DATE<br>(YYYY-MM-DD)               | PROFILE NO.                  |

ISC: SHEET SIZE ANSI D 25 mm



FILE: C:\USERS\ROD\GARJ\B1BDO\ACCD\OS\ARCADIS\ACC US\ACA-01\18875-338 AVE\PROJECT\FILES7\_PROD\DOT\03\_DESIGN\04\_CIVIL\SHEETS\18875-C210.DWG | DATE: June 13, 2025 12:34:03 PM



## NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING G003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
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8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.

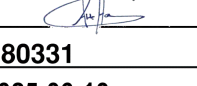
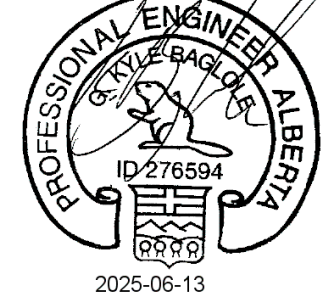


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NAD 83  
COORDINATES

|     |                               |                   |    |      |
|-----|-------------------------------|-------------------|----|------|
| D   | ISSUED FOR 100% DESIGN        | 2025-06-13        | KB | AH   |
| C   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30        | KB | AH   |
| B   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22        | KB | AH   |
| A   | ISSUED FOR 80% DESIGN REVIEW  | 2024-07-17        | KB | AH   |
| NO. | DESCRIPTION                   | DATE (YYYY-MM-DD) | BY | APPD |

|                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|
| PERMIT                                                                                                                                                                                                                                                                                                                                                       |  | SEAL                                                                                  |
| <b>PERMIT TO PRACTICE</b><br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE: <br>RM APEGA ID #: <b>80331</b><br>DATE: <b>2025-06-13</b><br><b>PERMIT NUMBER: P013381</b><br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |  |  |

|          |    |                   |
|----------|----|-------------------|
|          | BY | DATE (YYYY-MM-DD) |
| DESIGNED | DM | 2024-07-15        |
| DRAWN    | DM | 2024-07-15        |
| CHECKED  | KB | 2024-07-15        |

SCALE 0 5 10 m  
1:250



PROJECT  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTOKS, AB**

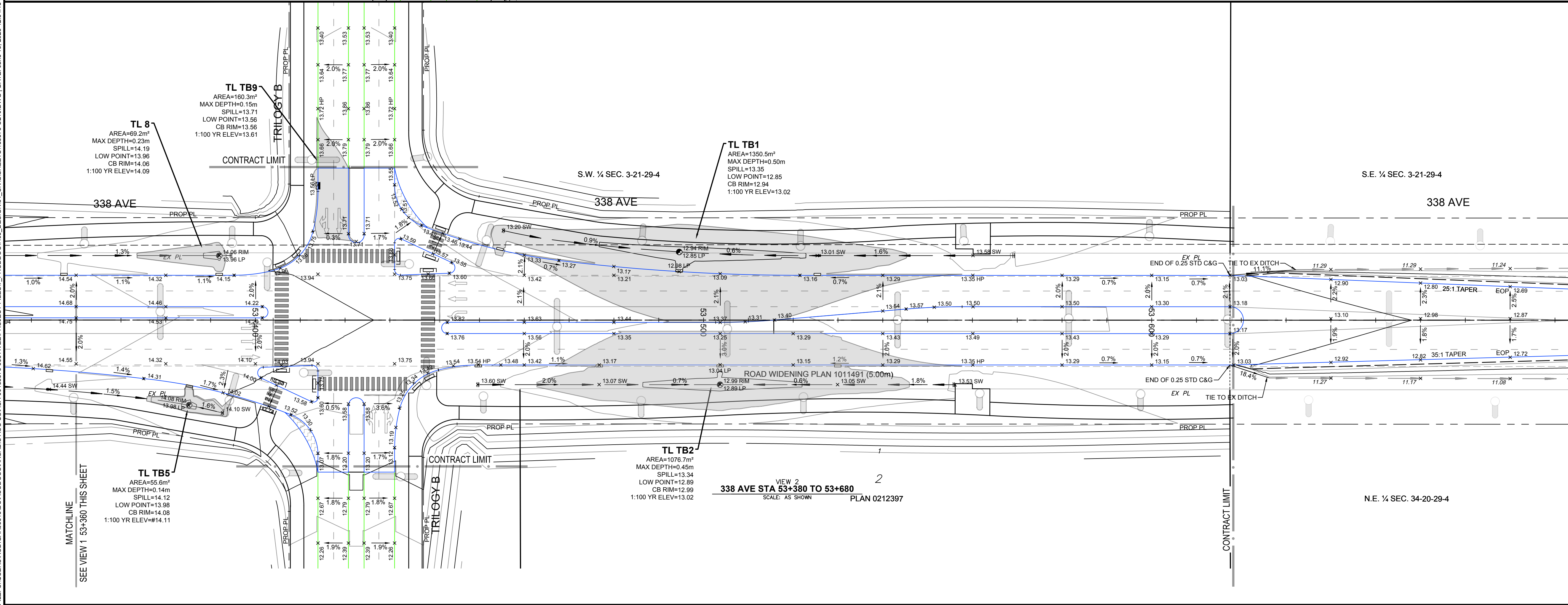
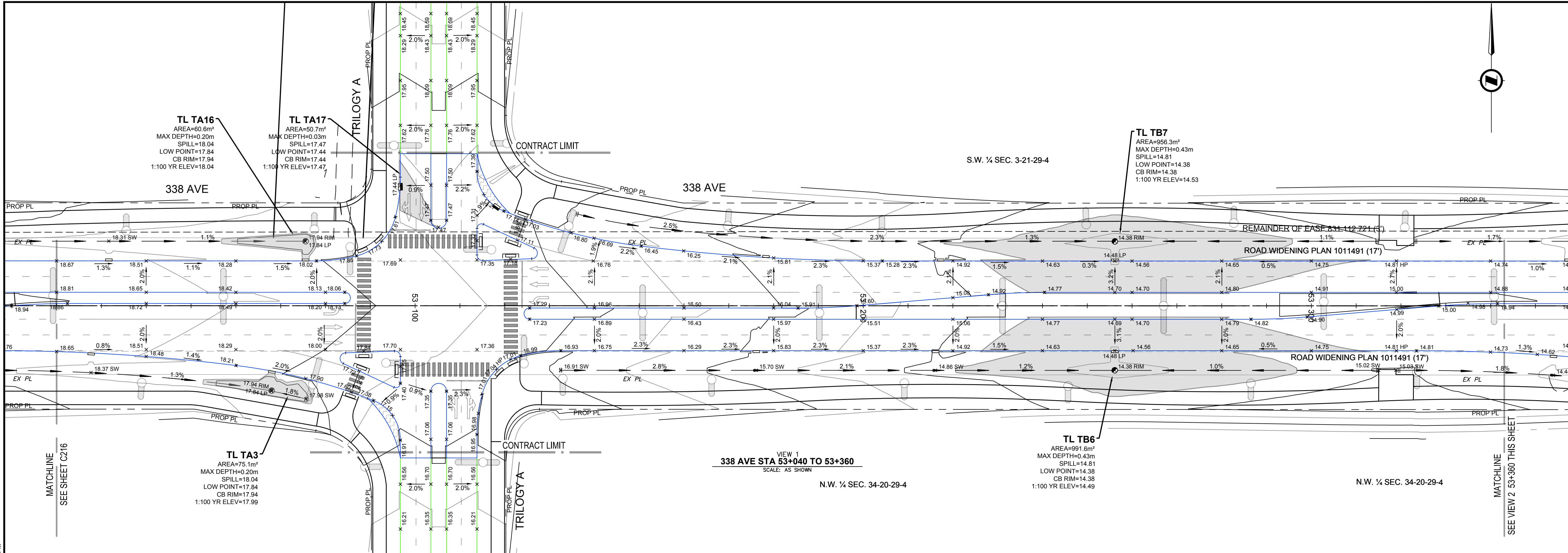
SHEET TITLE  
**ROUNDAABOUT PAVEMENT ELEVATIONS  
3 OF 5  
EAST OF 32 ST**

|                             |  |                       |             |
|-----------------------------|--|-----------------------|-------------|
| WORK ORDER NO.              |  | ACTIVITY NO.          |             |
| FILE NO.<br>138875-C210.dwg |  | ENG DWG NO.<br>138875 |             |
| SHEET ID.<br>C216           |  | SHEET NO.<br>29       |             |
| BY                          |  | DATE<br>(YYYY-MM-DD)  | PROFILE NO. |
| DRAWN                       |  |                       |             |

ISC: SHEET SIZE ANSI D 25 mm



FILE: C:\USERS\ROD\GARIB31\BDO\ACCD\OS\ARCADIS\ACC USACA-001\8875-338 AVE\PROJECT FILES\PRODD07.03 DESIGN\04 CIVIL\SHEETS\138875-C210.DWG [DATE: June 13, 2025 12:34:18 PM]



## NOTES

- ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
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- REFER TO LEGEND DRAWING 0003 FOR SURFACE AND LINE DESCRIPTIONS.
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- CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.

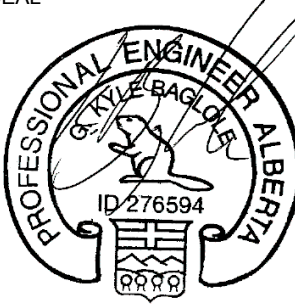
NOT FOR CONSTRUCTION



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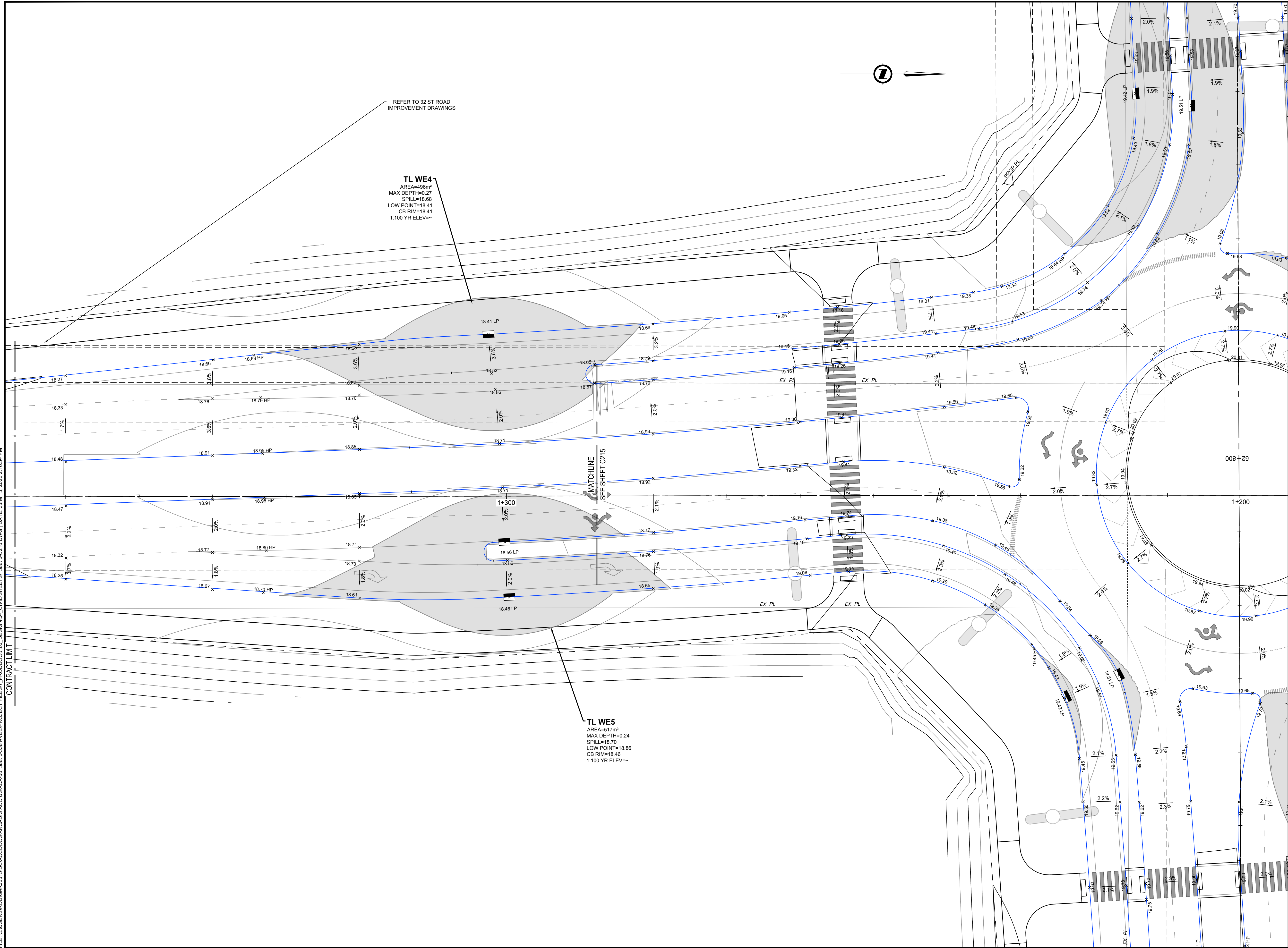
NAD 83  
COORDINATES

|                                                                                                                                                                                                                                                                                                                                                                        |                                                                 |                                                                                                  |                      |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------|-------------|
|                                                                                                                                                                                                                                                                                                                                                                        |                                                                 |                                                                                                  |                      |             |
| D                                                                                                                                                                                                                                                                                                                                                                      | ISSUED FOR 100% DESIGN                                          | 2025-06-13                                                                                       | KB                   | AH          |
| C                                                                                                                                                                                                                                                                                                                                                                      | ISSUED FOR 100% DESIGN REVIEW                                   | 2025-01-30                                                                                       | KB                   | AH          |
| B                                                                                                                                                                                                                                                                                                                                                                      | ISSUED FOR 90% DESIGN REVIEW                                    | 2024-11-22                                                                                       | KB                   | AH          |
| A                                                                                                                                                                                                                                                                                                                                                                      | ISSUED FOR 60% DESIGN REVIEW                                    | 2024-07-17                                                                                       | KB                   | AH          |
| NO.                                                                                                                                                                                                                                                                                                                                                                    | DESCRIPTION                                                     | DATE<br>(YYYY-MM-DD)                                                                             | BY                   | APPD        |
| PERMIT                                                                                                                                                                                                                                                                                                                                                                 |                                                                 | SEAL                                                                                             |                      |             |
| <div>PERMIT TO PRACTICE<br/>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br/>RM SIGNATURE: <br/>RM APEGA ID #, <b>80331</b><br/>DATE: <b>2025-06-13</b><br/><b>PERMIT NUMBER: P013381</b><br/>The Association of Professional Engineers and Geoscientists of Alberta (APEGA)</div> |                                                                 | <div></div> |                      |             |
|                                                                                                                                                                                                                                                                                                                                                                        |                                                                 | BY                                                                                               | DATE<br>(YYYY-MM-DD) |             |
| DESIGNED                                                                                                                                                                                                                                                                                                                                                               |                                                                 | DM                                                                                               | 2024-07-15           |             |
| DRAWN                                                                                                                                                                                                                                                                                                                                                                  |                                                                 | DM                                                                                               | 2024-07-15           |             |
| CHECKED                                                                                                                                                                                                                                                                                                                                                                |                                                                 | KB                                                                                               | 2024-07-15           |             |
| SCALE                                                                                                                                                                                                                                                                                                                                                                  | <div><div>01020m</div><div>1:500</div></div>                    |                                                                                                  |                      |             |
| <div></div>                                                                                                                                                                                                                                                                       |                                                                 |                                                                                                  |                      |             |
| PROJECT                                                                                                                                                                                                                                                                                                                                                                | 338 AVE ROAD IMPROVEMENTS<br>DETAILED DESIGN<br><br>OKOTOKS, AB |                                                                                                  |                      |             |
| SHEET TITLE                                                                                                                                                                                                                                                                                                                                                            | PAVEMENT ELEVATIONS<br>338 AVE<br>STA 53+040 - 53+680           |                                                                                                  |                      |             |
| WORK ORDER NO.                                                                                                                                                                                                                                                                                                                                                         |                                                                 | ACTIVITY NO.<br>138875                                                                           |                      |             |
| FILE NO.<br>138875-C210.dwg                                                                                                                                                                                                                                                                                                                                            |                                                                 | ENG DWG NO.                                                                                      |                      |             |
| SHEET ID.<br>C217                                                                                                                                                                                                                                                                                                                                                      |                                                                 | SHEET NO.<br>30                                                                                  |                      |             |
|                                                                                                                                                                                                                                                                                                                                                                        | BY                                                              | DATE<br>(YYYY-MM-DD)                                                                             |                      | PROFILE NO. |
| DRAWN                                                                                                                                                                                                                                                                                                                                                                  |                                                                 |                                                                                                  |                      |             |



FILE: C:\USERS\ROD\GARJ\B3\BDO\ACCD\OS\ARCADIS\ACC US\ACA-001\8875-338 AVE\PROJECT FILES\7\_PRODDOC\7.03\_DESIGN\04\_CIVIL\SHEETS\138875-C210.DWG | DATE: June 13, 2025 2:10:54 PM

CONTRACT LIMIT



### NOTES

- ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
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tel 403 270 5600  
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NAD 83  
COORDINATES

|                                                                                                                                                                                                                                                                      |                               |                        |            |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------|------------|-------------|
| D                                                                                                                                                                                                                                                                    | ISSUED FOR 100% DESIGN        | 2025-06-13             | KB         | AH          |
| C                                                                                                                                                                                                                                                                    | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30             | KB         | AH          |
| B                                                                                                                                                                                                                                                                    | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22             | KB         | AH          |
| A                                                                                                                                                                                                                                                                    | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17             | KB         | AH          |
| NO.                                                                                                                                                                                                                                                                  | DESCRIPTION                   | DATE (YYYY-MM-DD)      | BY         | APPD        |
| PERMIT                                                                                                                                                                                                                                                               |                               | SEAL                   |            |             |
| PERMIT TO PRACTICE<br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE: _____<br>RM APEGA ID # <b>80331</b><br>DATE: <b>2025-06-13</b><br>PERMIT NUMBER: <b>P013381</b><br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |                               |                        |            |             |
| DESIGNED                                                                                                                                                                                                                                                             | DM                            | DATE (YYYY-MM-DD)      | 2024-07-15 |             |
| DRAWN                                                                                                                                                                                                                                                                | DM                            | DATE (YYYY-MM-DD)      | 2024-07-15 |             |
| CHECKED                                                                                                                                                                                                                                                              | KB                            | DATE (YYYY-MM-DD)      | 2024-07-15 |             |
| SCALE                                                                                                                                                                                                                                                                |                               | 0 5 10 m               |            |             |
|                                                                                                                                                                                                                                                                      |                               |                        |            |             |
| PROJECT<br><b>338 AVE ROAD IMPROVEMENTS<br/>DETAILED DESIGN</b><br><b>OKOTAKS, AB</b>                                                                                                                                                                                |                               |                        |            |             |
| SHEET TITLE<br><b>ROUNDBOUT PAVEMENT ELEVATIONS<br/>4 OF 5<br/>SOUTH OF 338 AVE</b>                                                                                                                                                                                  |                               |                        |            |             |
| WORK ORDER NO.                                                                                                                                                                                                                                                       |                               | ACTIVITY NO.<br>138875 |            |             |
| FILE NO.<br>138875-C210.dwg                                                                                                                                                                                                                                          |                               | ENG DWG NO.            |            |             |
| SHEET ID.<br><b>C218</b>                                                                                                                                                                                                                                             |                               | SHEET NO.<br><b>31</b> |            |             |
| BY                                                                                                                                                                                                                                                                   |                               | DATE (YYYY-MM-DD)      |            | PROFILE NO. |
| DRAWN                                                                                                                                                                                                                                                                |                               |                        |            |             |

ISC: SHEET SIZE ANSI D 25 mm 0



1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING G003 FOR SURFACE AND LINE DESCRIPTIONS. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (10% PACKAGE).
4. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND SHOULD NOT BE COMPLETELY OR ACCURATE. DISCREPANCY INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.



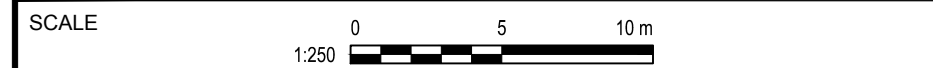
**Click  
Before  
You Dig**

NAD 83  
COORDINATES

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|     |                               |                      |    |      |
| D   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| C   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| B   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |
| A   | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17           | KB | AH   |
| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |

|                                                                                                                    |                                                                                       |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| PERMIT                                                                                                             | SEAL                                                                                  |
| <b>PERMIT TO PRACTICE</b>                                                                                          |                                                                                       |
| ARCADIS PROFESSIONAL SERVICES (CANADA) INC.                                                                        |                                                                                       |
| RM SIGNATURE:                 |  |
| RM APEGA ID #: <b>80331</b>                                                                                        |                                                                                       |
| DATE: <b>2025-06-13</b>                                                                                            |                                                                                       |
| <b>PERMIT NUMBER: P013381</b><br>The Association of Professional Engineers and<br>Geoscientists of Alberta (APEGA) |                                                                                       |

|          |    |                      |
|----------|----|----------------------|
|          | BY | DATE<br>(YYYY-MM-DD) |
| DESIGNED | DM | 2024-07-15           |
| DRAWN    | DM | 2024-07-15           |
| CHECKED  | KB | 2024-07-15           |



PROJECT

**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**

**OKOTOKS, AB**

SHEET TITLE

**ROUNDAABOUT PAVEMENT ELEVATIONS**  
**5 OF 5**  
**NORTH OF 338 AVE**

|                             |  |                    |             |
|-----------------------------|--|--------------------|-------------|
| WORK ORDER NO.              |  | ACTIVITY NO.       |             |
| FILE NO.<br>138875-C210.dwg |  | 138875             |             |
| SHEET ID.                   |  | SHEET NO.          |             |
| <b>C219</b>                 |  | <b>32</b>          |             |
| BY                          |  | DATE<br>(YYYYMMDD) | PROFILE NO. |
| DRAWN                       |  |                    |             |

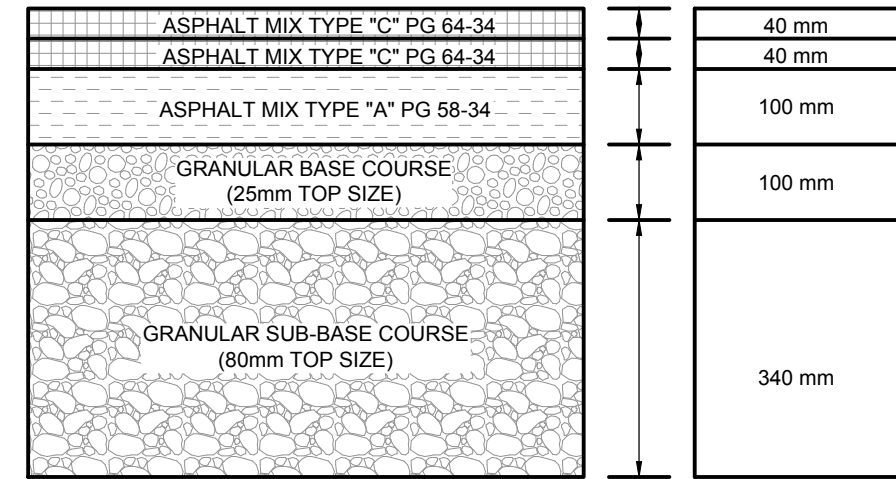
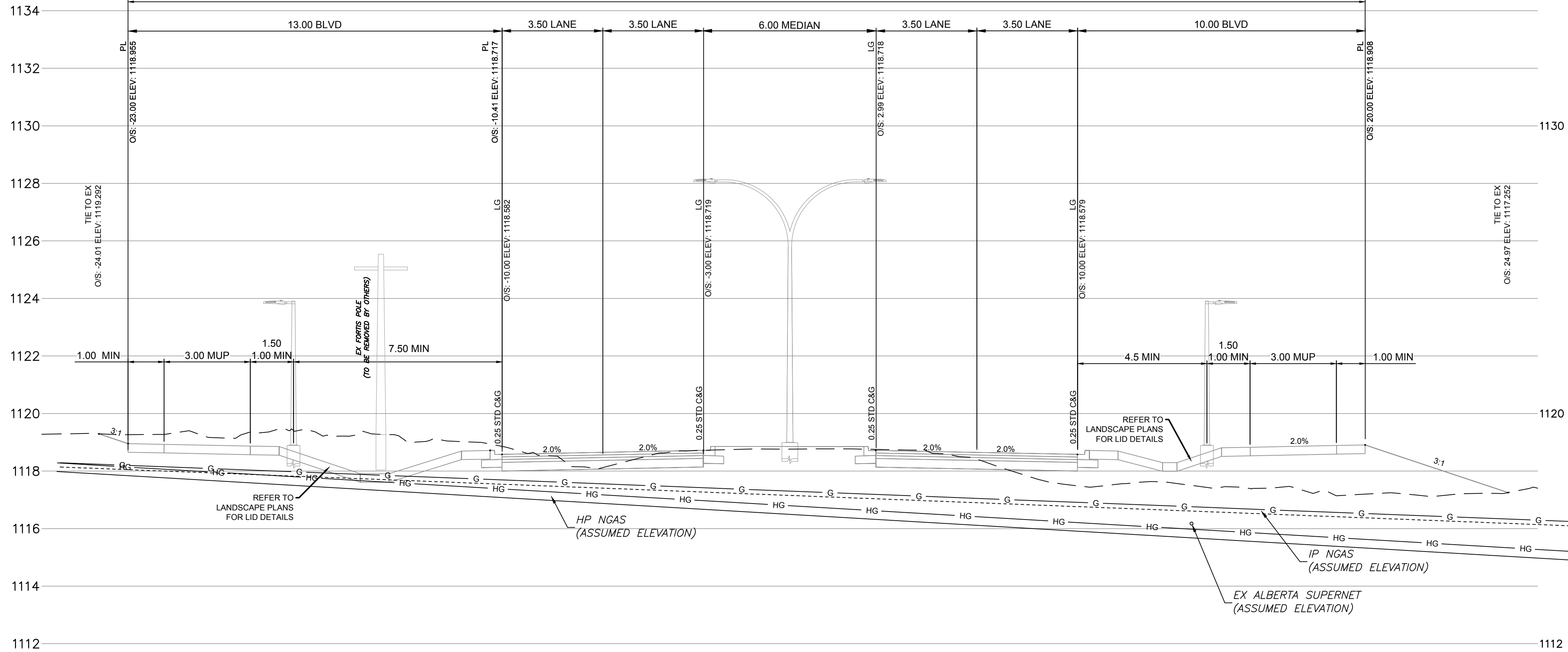
ISC: SHEET SIZE ANSI D 25 mm



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51+662.00

43.00



DETAIL A  
338 AVENUE ROAD STRUCTURE DETAIL  
SCALE: NTS

NOTE: PAVEMENT STRUCTURE DESIGN COMPLETED BY TETRA TECH. REFER TO GEOTECHNICAL EVALUATION 338 AVENUE E - HIGHWAY 2A TO 32 STREET E DATED OCTOBER 2022, AND GEOTECHNICAL EVALUATION 338 AVENUE E AND 32 STREET E ROADWAY UPGRADES DATED OCTOBER 2024 FOR ADDITIONAL DETAILS.

## NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING 0003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.

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NAD 83  
COORDINATES

|     |                               |                      |    |      |
|-----|-------------------------------|----------------------|----|------|
|     |                               |                      |    |      |
| D   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| C   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| B   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |
| A   | ISSUED FOR 60% DESIGN REVIEW  | 2024-07-17           | KB | AH   |
| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |

|                                                                                                                                                                                                                                                                        |      |
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| PERMIT                                                                                                                                                                                                                                                                 | SEAL |
| <b>PERMIT TO PRACTICE</b><br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE:<br>RM APEGA ID #: <b>80331</b><br>DATE: <b>2025-06-13</b><br><b>PERMIT NUMBER: P013381</b><br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |      |

|          |                  |                      |
|----------|------------------|----------------------|
|          | BY               | DATE<br>(YYYY-MM-DD) |
| DESIGNED | DM               | 2024-07-15           |
| DRAWN    | DM               | 2024-07-15           |
| CHECKED  | KB               | 2024-07-15           |
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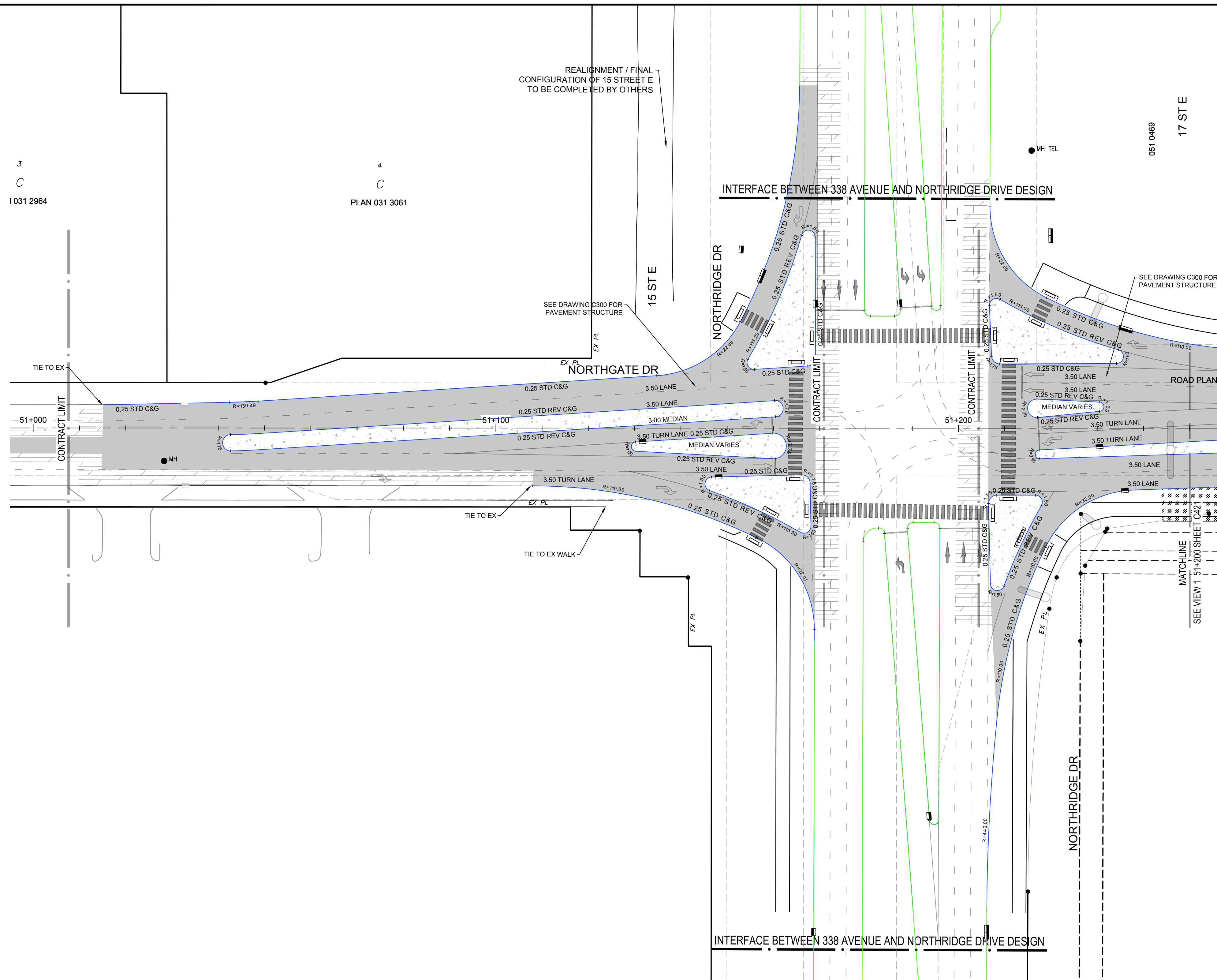
PROJECT  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTAKS, AB**

SHEET TITLE  
**TYPICAL SECTIONS**

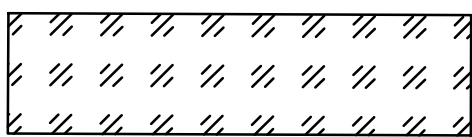
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| SHEET ID.<br>C300           | SHEET NO.<br>33       |
| DATE<br>(YYYY-MM-DD)        | PROFILE NO.           |
| DRAWN                       |                       |

ISC: SHEET SIZE ANSI D 25 mm





## LEGEND



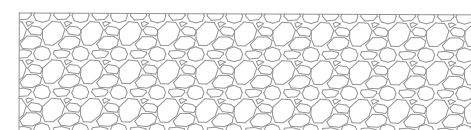
LANDSCAPE / URBAN DESIGN  
(REFER TO LANDSCAPING PLANS)

CONCRETE



NEW PAVEMENT STRUCTURE

ASPHALT OVERLAY (40mm DEPTH)



GRAVEL

# NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING G003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAMP RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD CROSSING. SEPARATE WHEELCHAMP RAMPS TO BE PROVIDED AT EACH DESIGN IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAMP RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN OBTAINED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
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8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.

NOTE: REFER TO THE LANDSCAPE  
DRAWINGS FOR ALL DETAILS WITHIN  
THE BOULEVARD AND MEDIANS

**(NOT FOR CONSTRUCTION)**



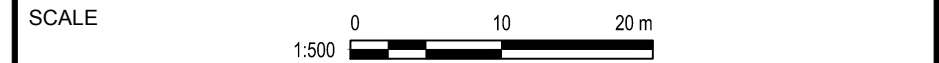
227 11 Avenue SW - 3rd Floor  
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NAD 83  
COORDINATES

|     |                               |                      |    |      |
|-----|-------------------------------|----------------------|----|------|
|     |                               |                      |    |      |
|     |                               |                      |    |      |
| C   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| B   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| A   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |
| NO. | DESCRIPTION                   | DATE<br>(mm/dd/yyyy) | BY | APPD |

|                                                                                                                                                                                                                                                                                                                            |                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <p>PERMIT</p> <p><b>PERMIT TO PRACTICE</b></p> <p>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.</p> <p>RM SIGNATURE: _____</p> <p>RM APEGA ID #: <u>80331</u></p> <p>DATE: <u>2025-06-13</u></p> <p><b>PERMIT NUMBER: P013381</b></p> <p>The Association of Professional Engineers and Geoscientists of Alberta (APESGA)</p> | <p>SEAL</p>  <p>2025-06-13</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|

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|----------|----|----------------------|
|          | BY | DATE<br>(YYYY-MM-DD) |
| DESIGNED | DM | 2024-07-15           |
| DRAWN    | DM | 2024-07-15           |
| CHECKED  | KB | 2024-07-15           |



|         |                                                      |
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| PROJECT | <b>338 AVE ROAD IMPROVEMENTS<br/>DETAILED DESIGN</b> |
|---------|------------------------------------------------------|

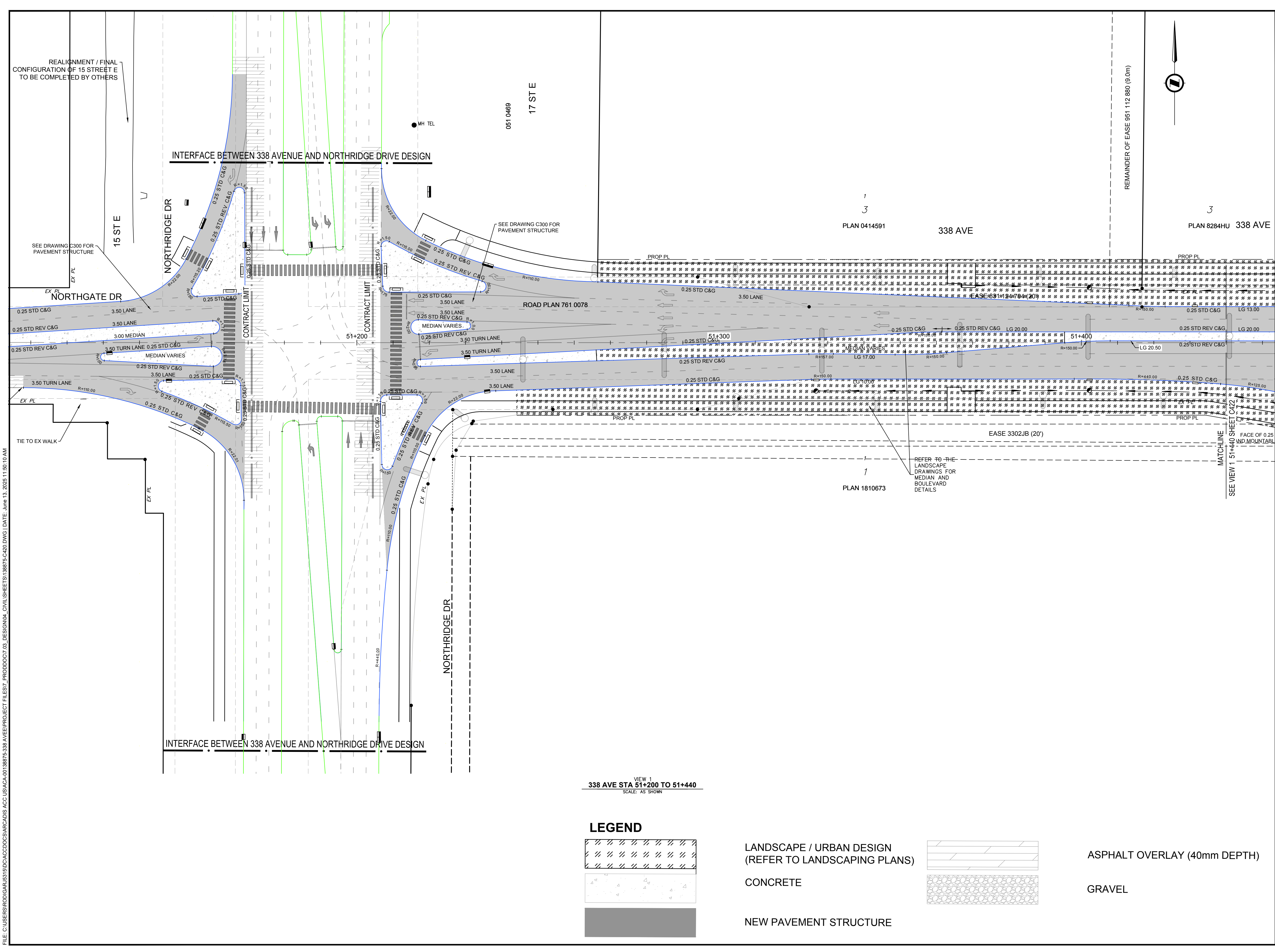
**OKOTOKS, AB**

SHEET TITLE

**PAVEMENT DETAILS  
NORTHGATE DR  
STA 51+000 - NORTHRIDGE DR**

|                             |  |                    |             |
|-----------------------------|--|--------------------|-------------|
| WORK ORDER NO.              |  | ACTIVITY NO.       |             |
| FILE NO.<br>138875-C420.dwg |  | 138875             |             |
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| <b>C420</b>                 |  | <b>34</b>          |             |
| BY                          |  | DATE<br>(YYYYMMDD) | PROFILE NO. |
| DRAWN                       |  |                    |             |





### NOTES

- ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
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- REFER TO LEGEND DRAWING G003 FOR SURFACE AND LINE DESCRIPTIONS.
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NOTE: REFER TO THE LANDSCAPE DRAWINGS FOR ALL DETAILS WITHIN THE BOULEVARD AND MEDIANS

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| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |
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| C   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| B   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| A   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |

PERMIT  
**PERMIT TO PRACTICE**  
ARCADIS PROFESSIONAL SERVICES (CANADA) INC.  
RM SIGNATURE: \_\_\_\_\_  
RM APEGA ID # **80331**  
DATE: **2025-06-13**  
**PERMIT NUMBER: P013381**  
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

SEAL

|          | BY | DATE<br>(YYYY-MM-DD) |
|----------|----|----------------------|
| DESIGNED | DM | 2024-07-15           |
| DRAWN    | DM | 2024-07-15           |
| CHECKED  | KB | 2024-07-15           |

SCALE  
0 10 20 m  
1:500

**PROJECT**  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTAKS, AB**

**SHEET TITLE**  
**PAVEMENT DETAILS  
338 AVE  
NORTHBRIDGE DR - STA 51+440**

|                      |              |
|----------------------|--------------|
| WORK ORDER NO.       | ACTIVITY NO. |
| FILE NO.             | ENG DWG NO.  |
| SHEET ID.            | SHEET NO.    |
| DATE<br>(YYYY-MM-DD) | PROFILE NO.  |

|       |                      |             |
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| BY    | DATE<br>(YYYY-MM-DD) | PROFILE NO. |
| DRAWN |                      |             |

ISC: SHEET SIZE ANSI D 25 mm

### LEGEND

|  |                                                          |  |                              |
|--|----------------------------------------------------------|--|------------------------------|
|  | LANDSCAPE / URBAN DESIGN<br>(REFER TO LANDSCAPING PLANS) |  | ASPHALT OVERLAY (40mm DEPTH) |
|  | CONCRETE                                                 |  | GRAVEL                       |
|  | NEW PAVEMENT STRUCTURE                                   |  |                              |

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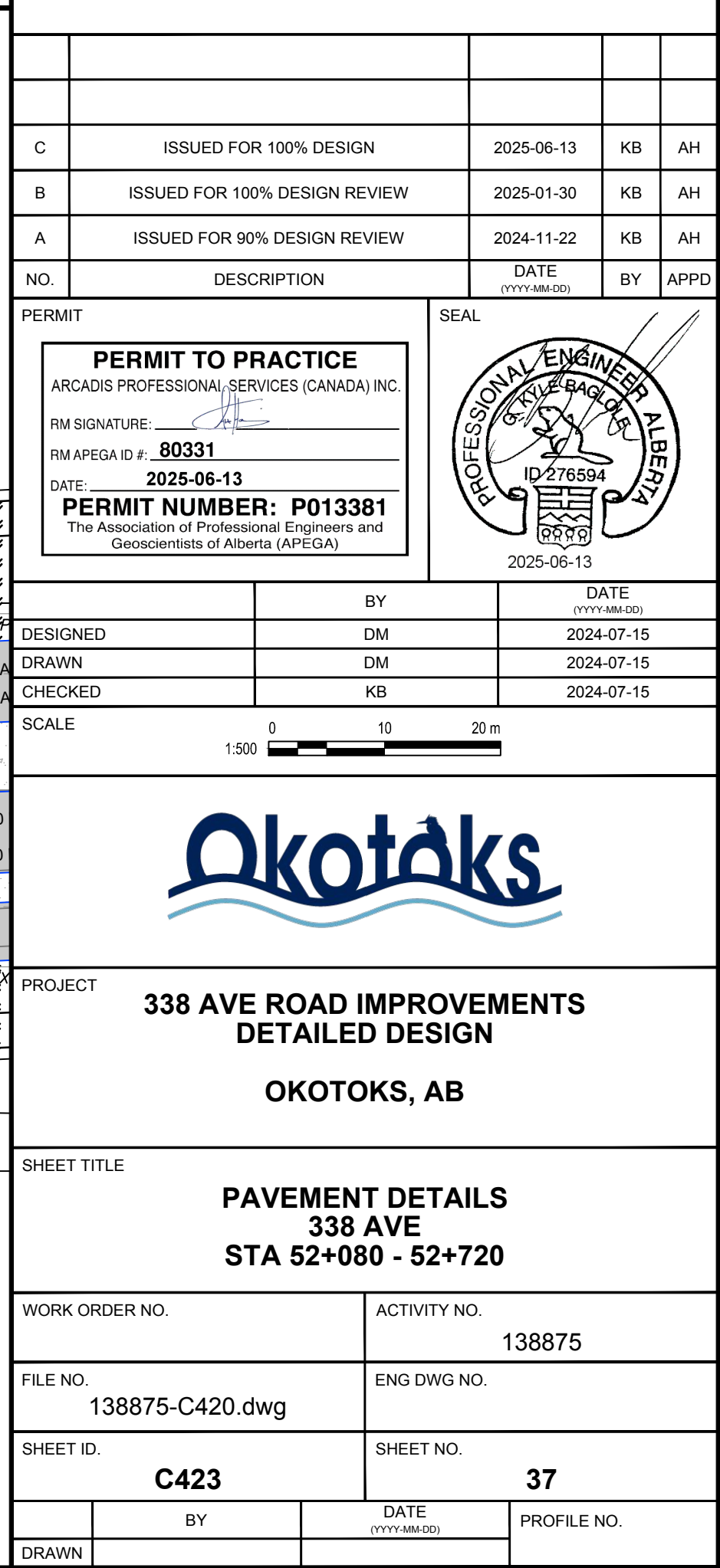
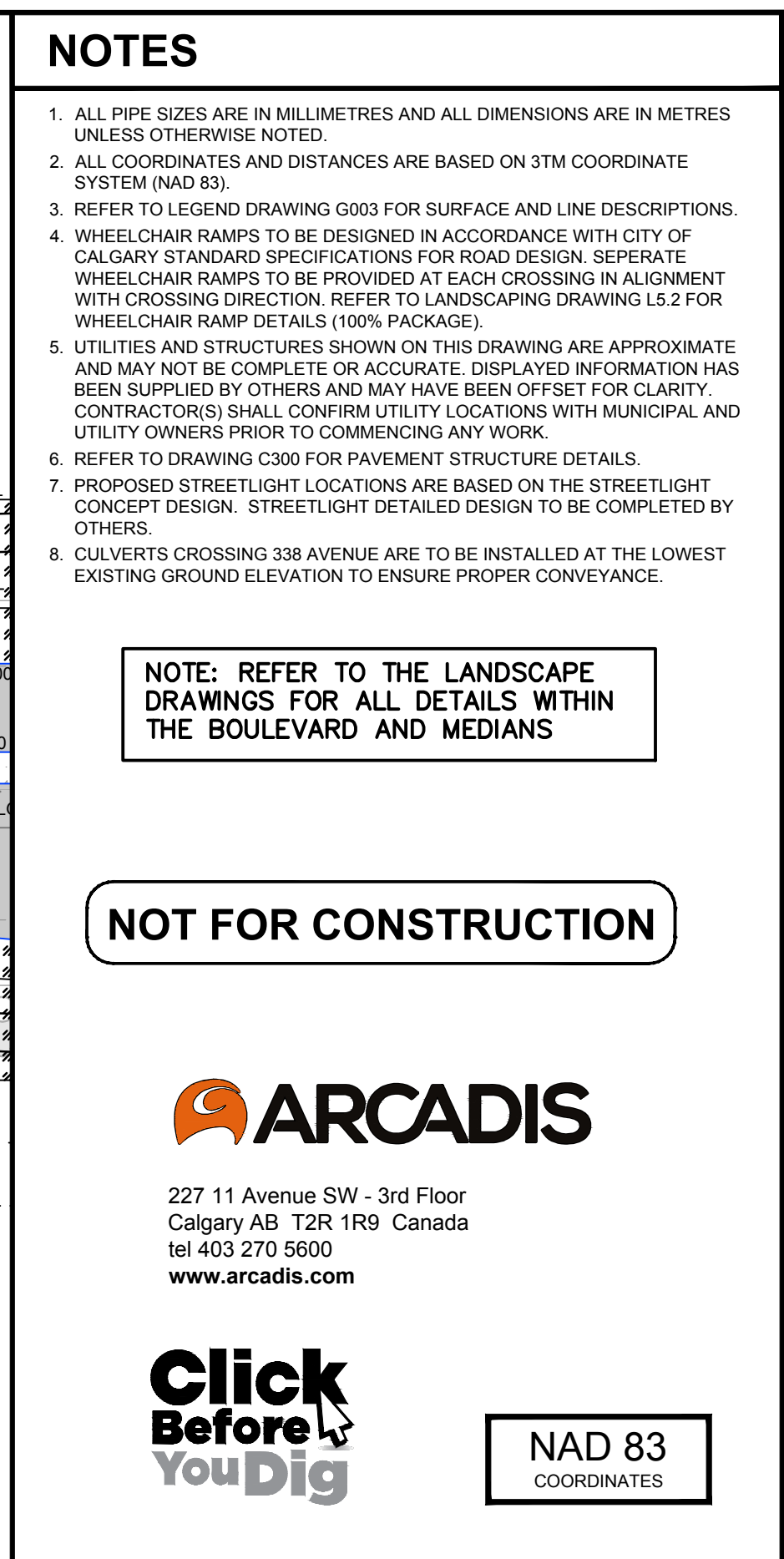
1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
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**( NOT FOR CONSTRUCTION )**



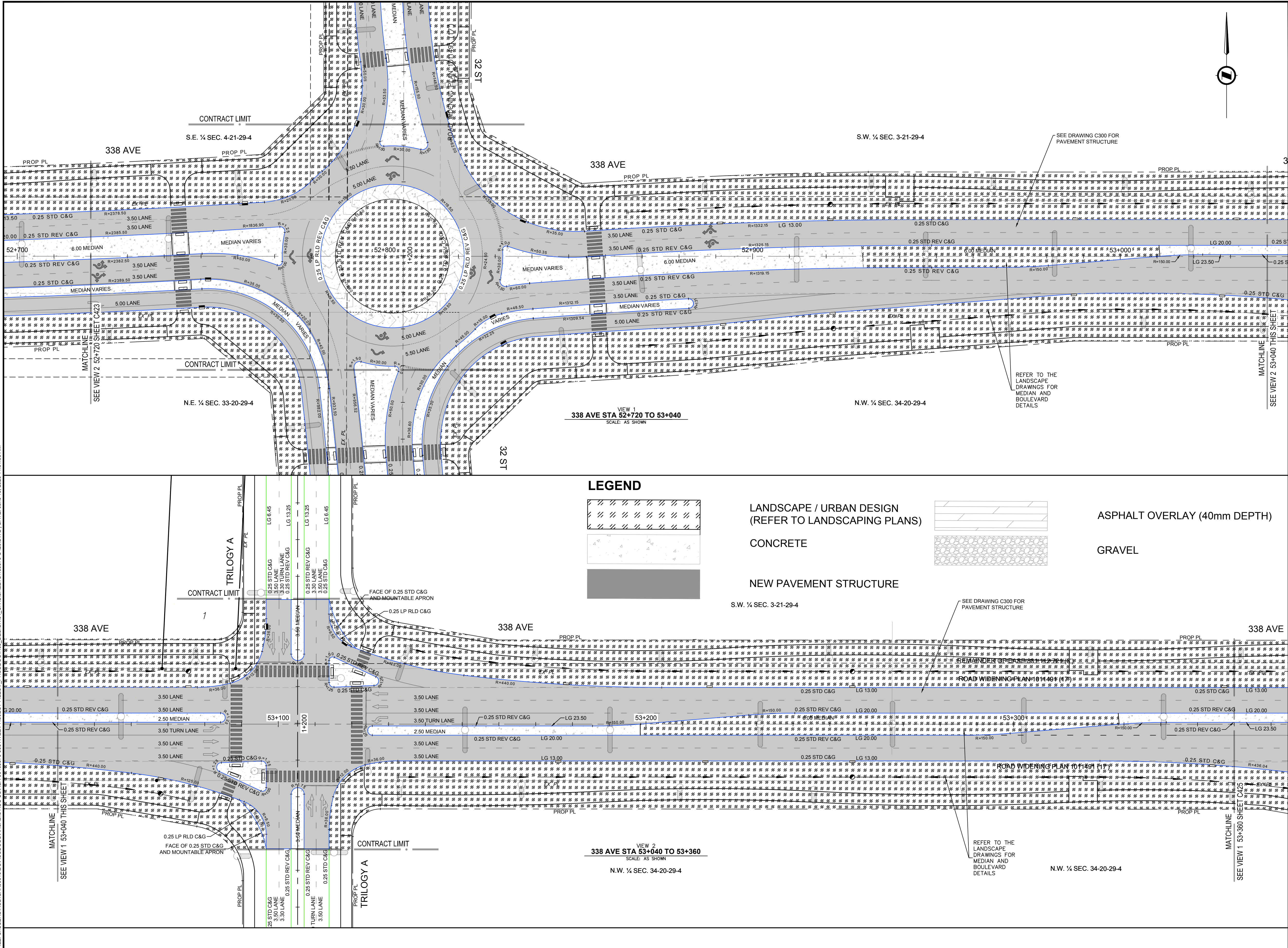
ISC: SHEET SIZE ANSI D 25 mm







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## NOTES

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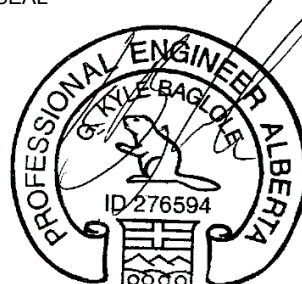
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tel 403 270 5600  
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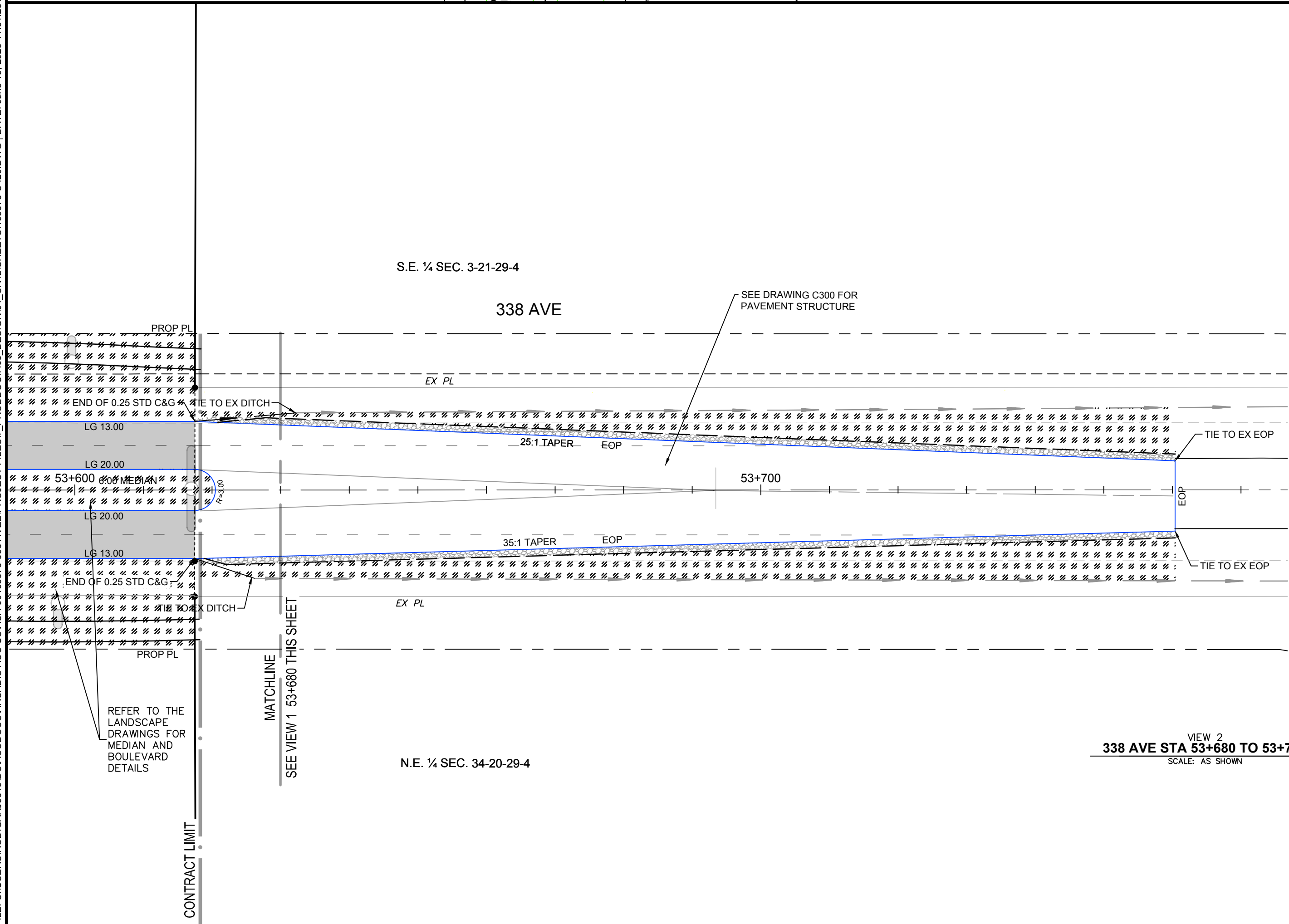
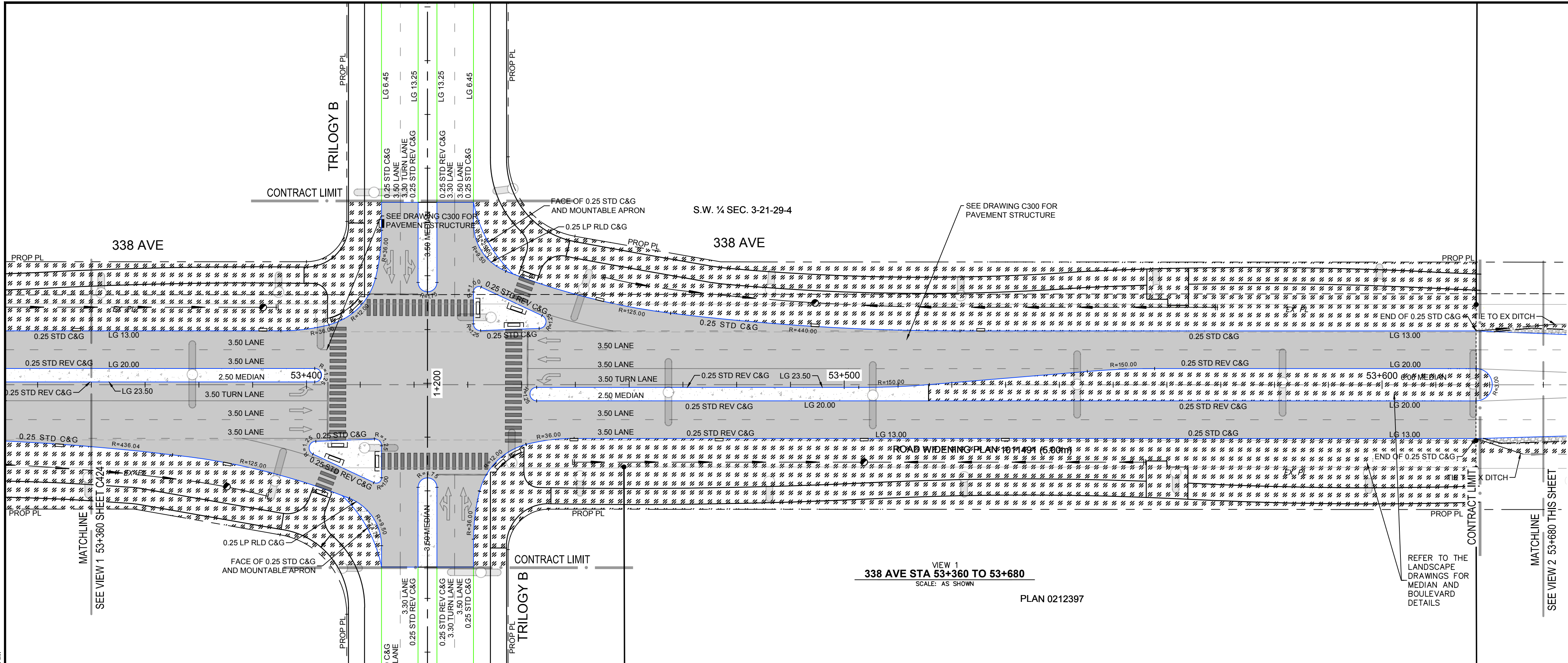


NAD 83  
COORDINATES

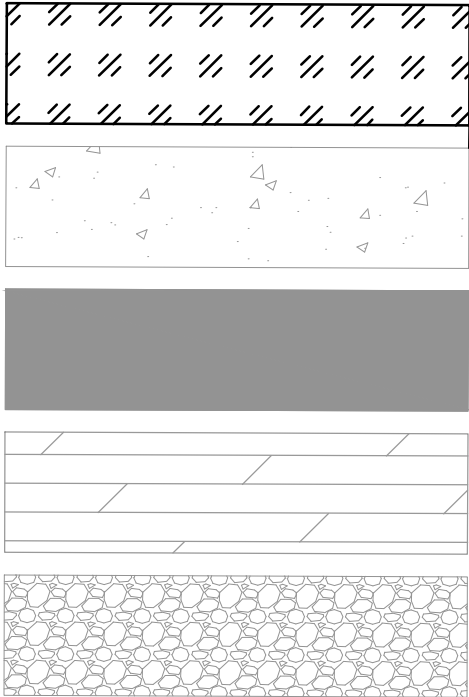
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| C                                                                                                                                                                                                                                                                                                                                                                                                                      | ISSUED FOR 100% DESIGN                                          | 2025-06-13                                                                                                        | KB | AH                   |
| B                                                                                                                                                                                                                                                                                                                                                                                                                      | ISSUED FOR 100% DESIGN REVIEW                                   | 2025-01-30                                                                                                        | KB | AH                   |
| A                                                                                                                                                                                                                                                                                                                                                                                                                      | ISSUED FOR 90% DESIGN REVIEW                                    | 2024-11-22                                                                                                        | KB | AH                   |
| NO.                                                                                                                                                                                                                                                                                                                                                                                                                    | DESCRIPTION                                                     | DATE<br>(YYYY-MM-DD)                                                                                              | BY | APPD                 |
| PERMIT                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                 | SEAL                                                                                                              |    |                      |
| <div><div>PERMIT TO PRACTICE</div><div>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.</div><div>RM SIGNATURE: </div><div>RM APEGA ID #: <b>80331</b></div><div>DATE: <b>2025-06-13</b></div><div><b>PERMIT NUMBER: P013381</b></div><div>The Association of Professional Engineers and Geoscientists of Alberta (APEGGA)</div></div> |                                                                 | <div><p>2025-06-13</p></div> |    |                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                 | BY                                                                                                                |    | DATE<br>(YYYY-MM-DD) |
| DESIGNED                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                 | DM                                                                                                                |    | 2024-07-15           |
| DRAWN                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                 | DM                                                                                                                |    | 2024-07-15           |
| CHECKED                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                 | KB                                                                                                                |    | 2024-07-15           |
| SCALE                                                                                                                                                                                                                                                                                                                                                                                                                  | <div>01020 m</div> <div>1:500</div>                             |                                                                                                                   |    |                      |
| <div></div>                                                                                                                                                                                                                                                                                                                       |                                                                 |                                                                                                                   |    |                      |
| PROJECT                                                                                                                                                                                                                                                                                                                                                                                                                | 338 AVE ROAD IMPROVEMENTS<br>DETAILED DESIGN<br><br>OKOTOKS, AB |                                                                                                                   |    |                      |
| SHEET TITLE                                                                                                                                                                                                                                                                                                                                                                                                            | PAVEMENT DETAILS<br>338 AVE<br>STA 52+720 - 53+360              |                                                                                                                   |    |                      |
| WORK ORDER NO.                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                 | ACTIVITY NO.                                                                                                      |    |                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                 | 138875                                                                                                            |    |                      |
| FILE NO.                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                 | ENG DWG NO.                                                                                                       |    |                      |
| 138875-C420.dwg                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                 |                                                                                                                   |    |                      |
| SHEET ID.                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                 | SHEET NO.                                                                                                         |    |                      |
| C424                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                 | 38                                                                                                                |    |                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                        | BY                                                              | DATE<br>(YYYY-MM-DD)                                                                                              |    | PROFILE NO.          |
| DRAWN                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                 |                                                                                                                   |    |                      |



FILE: C:\USERS\ROD\GARIB31\BDO\ACCDOS\S\ARCADIS\ACC US\ACA-001\8875-338 AVE\PROJECT FILES\PRODDOT\03\_DESIGN\04\_CIVIL\SHEETS\138875-C420.DWG | DATE: June 13, 2025 11:51:28 AM



### LEGEND



- LANDSCAPE / URBAN DESIGN (REFER TO LANDSCAPING PLANS)
- CONCRETE
- NEW PAVEMENT STRUCTURE
- ASPHALT OVERLAY (40mm DEPTH)
- GRAVEL

### NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING G003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.

NOTES: REFER TO THE LANDSCAPE DRAWINGS FOR ALL DETAILS WITHIN THE BOULEVARD AND MEDIANS

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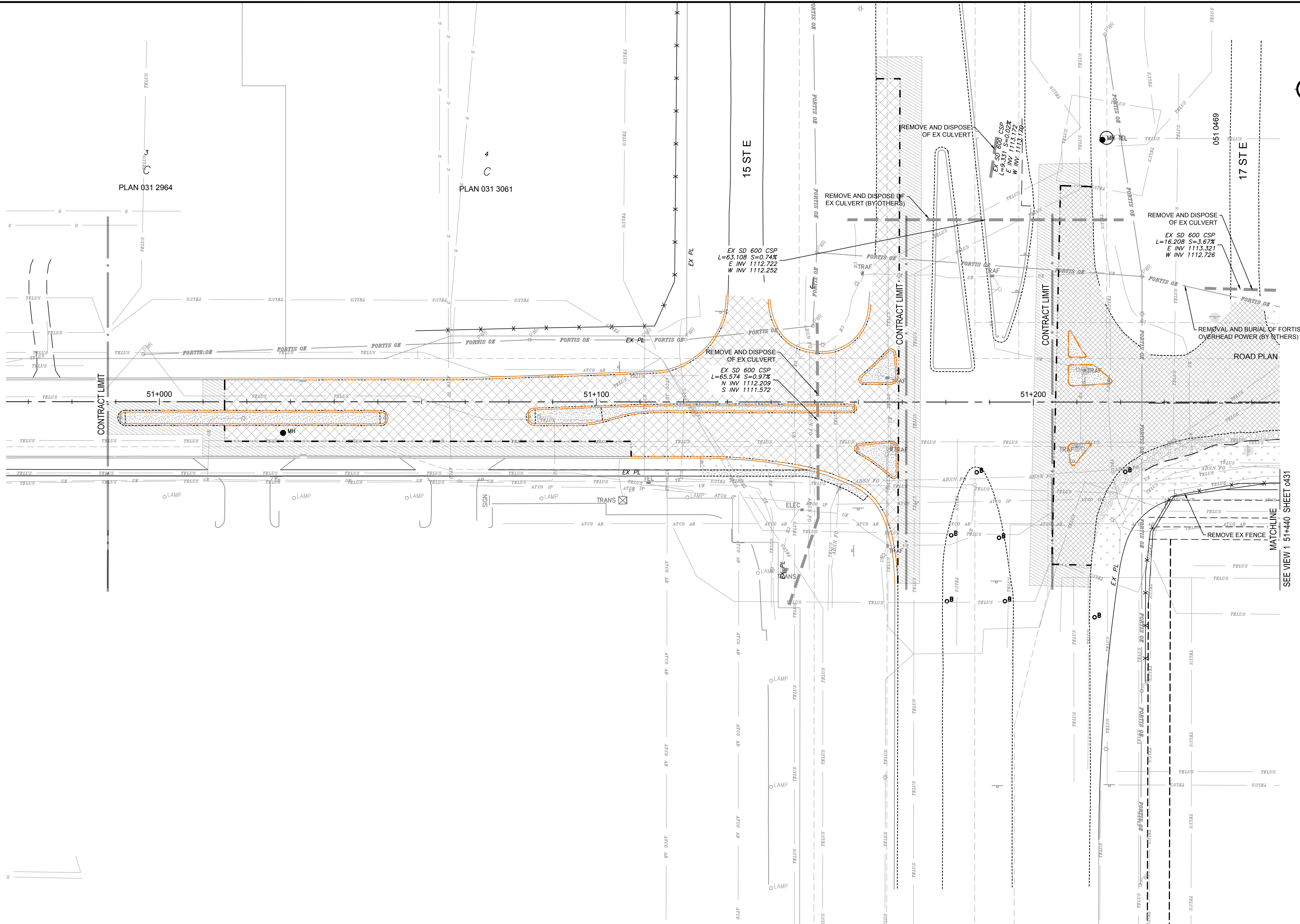


NAD 83  
COORDINATES

|                                                               |                               |                                                                                |              |                   |  |
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| C                                                             | ISSUED FOR 100% DESIGN        | 2025-06-13                                                                     | KB           | AH                |  |
| B                                                             | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30                                                                     | KB           | AH                |  |
| A                                                             | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22                                                                     | KB           | AH                |  |
| NO.                                                           | DESCRIPTION                   | DATE (YYYY-MM-DD)                                                              | BY           | APPD              |  |
| PERMIT                                                        |                               | SEAL                                                                           |              |                   |  |
| PERMIT TO PRACTICE                                            |                               | PROFESSIONAL ENGINEER ALBERTA                                                  |              |                   |  |
| ARCADIS PROFESSIONAL SERVICES (CANADA) INC.                   |                               | ID 276594                                                                      |              |                   |  |
| RM SIGNATURE: [Signature]                                     |                               | 2025-06-13                                                                     |              |                   |  |
| RM APEGA ID # 80331                                           |                               | PERMIT NUMBER: P013381                                                         |              |                   |  |
| DATE: 2025-06-13                                              |                               | The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |              |                   |  |
| DESIGNED                                                      | DM                            | DATE (YYYY-MM-DD)                                                              | BY           | DATE (YYYY-MM-DD) |  |
| DRAWN                                                         | DM                            | 2024-07-15                                                                     | DM           | 2024-07-15        |  |
| CHECKED                                                       | KB                            | 2024-07-15                                                                     | KB           | 2024-07-15        |  |
| SCALE 1:500 0 10 20 m                                         |                               |                                                                                |              |                   |  |
| Okotaks                                                       |                               |                                                                                |              |                   |  |
| PROJECT 338 AVE ROAD IMPROVEMENTS DETAILED DESIGN OKOTOKS, AB |                               |                                                                                |              |                   |  |
| SHEET TITLE PAVEMENT DETAILS 338 AVE STA 53+360 - 53+780      |                               |                                                                                |              |                   |  |
| WORK ORDER NO.                                                |                               |                                                                                | ACTIVITY NO. |                   |  |
| 138875                                                        |                               |                                                                                | 138875       |                   |  |
| FILE NO. 138875-C420.dwg                                      |                               |                                                                                | ENG DWG NO.  |                   |  |
| SHEET ID. C425                                                |                               |                                                                                | SHEET NO. 39 |                   |  |
| BY                                                            |                               | DATE (YYYY-MM-DD)                                                              |              | PROFILE NO.       |  |
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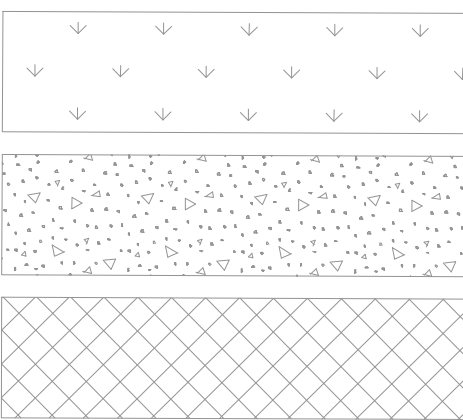


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VIEW 1  
NORTHGATE DR STA 51+000 TO NORTHRIDGE DR  
SCALE: AS SHOWN

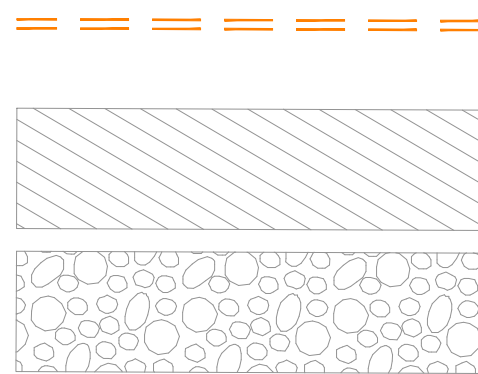
### LEGEND



STRIPPING

CONCRETE REMOVAL

ASPHALT REMOVAL  
(FULL PAVEMENT STRUCTURE DEPTH)



CURB AND GUTTER REMOVAL

ASPHALT MILLING (40mm DEPTH)

GRAVEL REMOVAL

### NOTES

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12. EXISTING ALBERTA SUPERNET LINE TO BE RELOCATED BY OTHERS.

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NAD 83  
COORDINATES

0 10 20 m  
1:500

| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |
|-----|-------------------------------|----------------------|----|------|
| C   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| B   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| A   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |

|                                                                                                                                                                                                                                                                                       |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| PERMIT<br><b>PERMIT TO PRACTICE</b><br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE: _____<br>RM APEGA ID # <b>80331</b><br>DATE: <b>2025-06-13</b><br><b>PERMIT NUMBER: P013381</b><br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) | SEAL<br> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|

|          | BY       | DATE<br>(YYYY-MM-DD) |
|----------|----------|----------------------|
| DESIGNED | DM       | 2024-07-15           |
| DRAWN    | DM       | 2024-07-15           |
| CHECKED  | KB       | 2024-07-15           |
| SCALE    | AS SHOWN |                      |



PROJECT  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTAKS, AB**

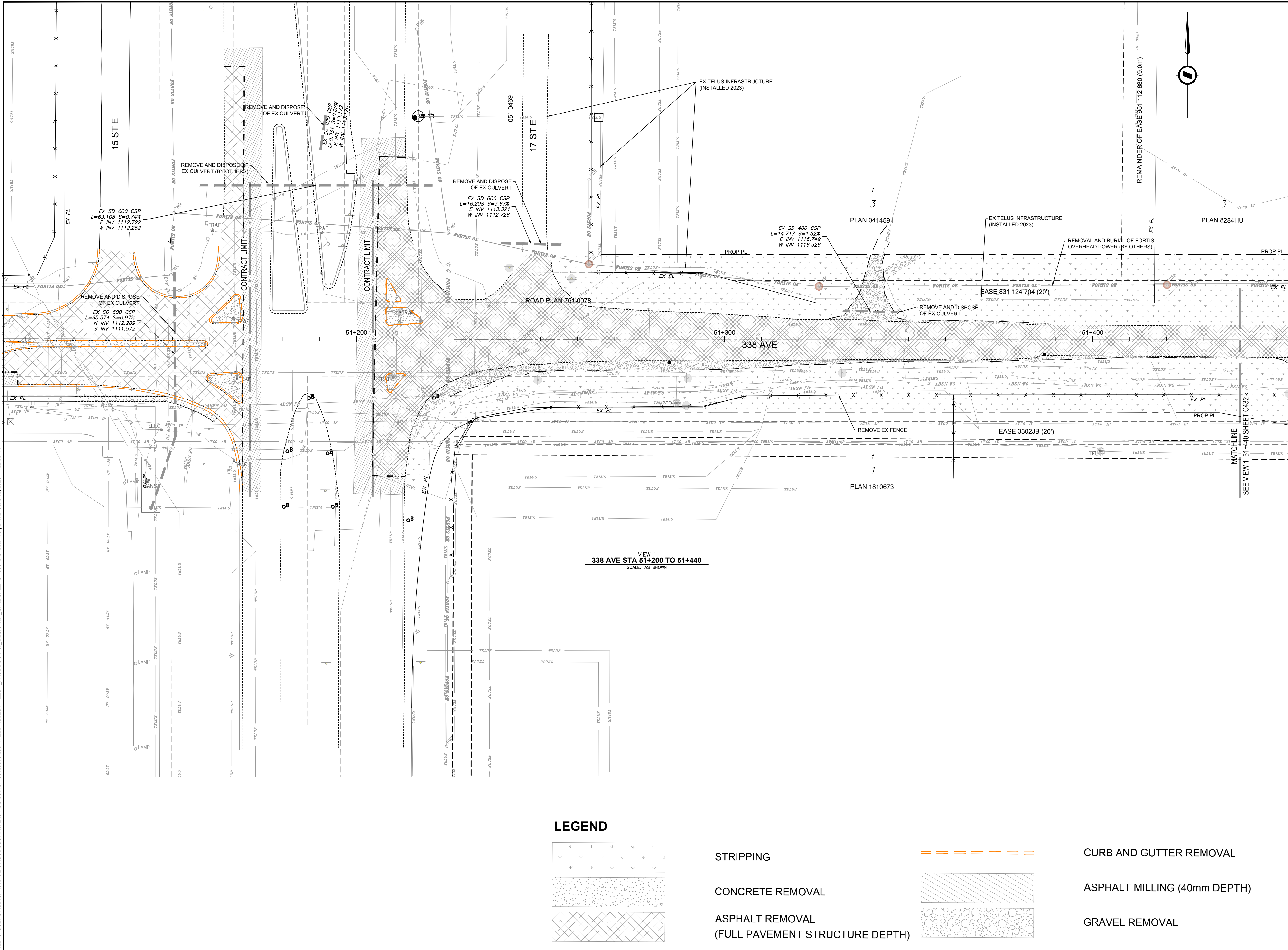
SHEET TITLE  
**REMOVAL DETAILS  
NORTHGATE DR  
STA 51+000 - NORTHRIDGE DR**

|                             |                        |
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| WORK ORDER NO.              | ACTIVITY NO.           |
| FILE NO.<br>138875-C430.dwg | ENG DWG NO.<br>138875  |
| SHEET ID.<br><b>C430</b>    | SHEET NO.<br><b>40</b> |
| BY                          | DATE<br>(YYYY-MM-DD)   |
| DRAWN                       | PROFILE NO.            |

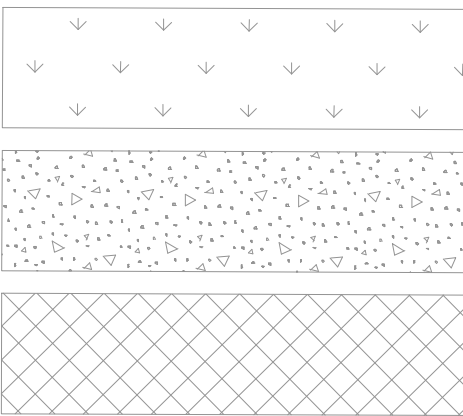
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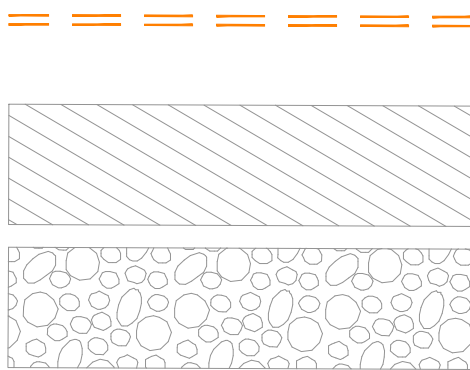
LEGEND



STRIPPING

CONCRETE REMOVAL

ASPHALT REMOVAL  
(FULL PAVEMENT STRUCTURE DEPTH)



CURB AND GUTTER REMOVAL

ASPHALT MILLING (40mm DEPTH)

GRAVEL REMOVAL

NOTES

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NAD 83  
COORDINATES

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| C   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| B   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| A   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |
| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |

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| PERMIT                                                                                                                                                                                                                                                                | SEAL |
| <b>PERMIT TO PRACTICE</b><br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE:<br>RM APEGA ID # <b>80331</b><br>DATE: <b>2025-06-13</b><br><b>PERMIT NUMBER: P013381</b><br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |      |

|          |          |                      |
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|          | BY       | DATE<br>(YYYY-MM-DD) |
| DESIGNED | DM       | 2024-07-15           |
| DRAWN    | DM       | 2024-07-15           |
| CHECKED  | KB       | 2024-07-15           |
| SCALE    | AS SHOWN |                      |



PROJECT  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTAKS, AB**

SHEET TITLE  
**REMOVAL DETAILS  
338 AVE  
NORTHBRIDGE DR - STA 51+440**

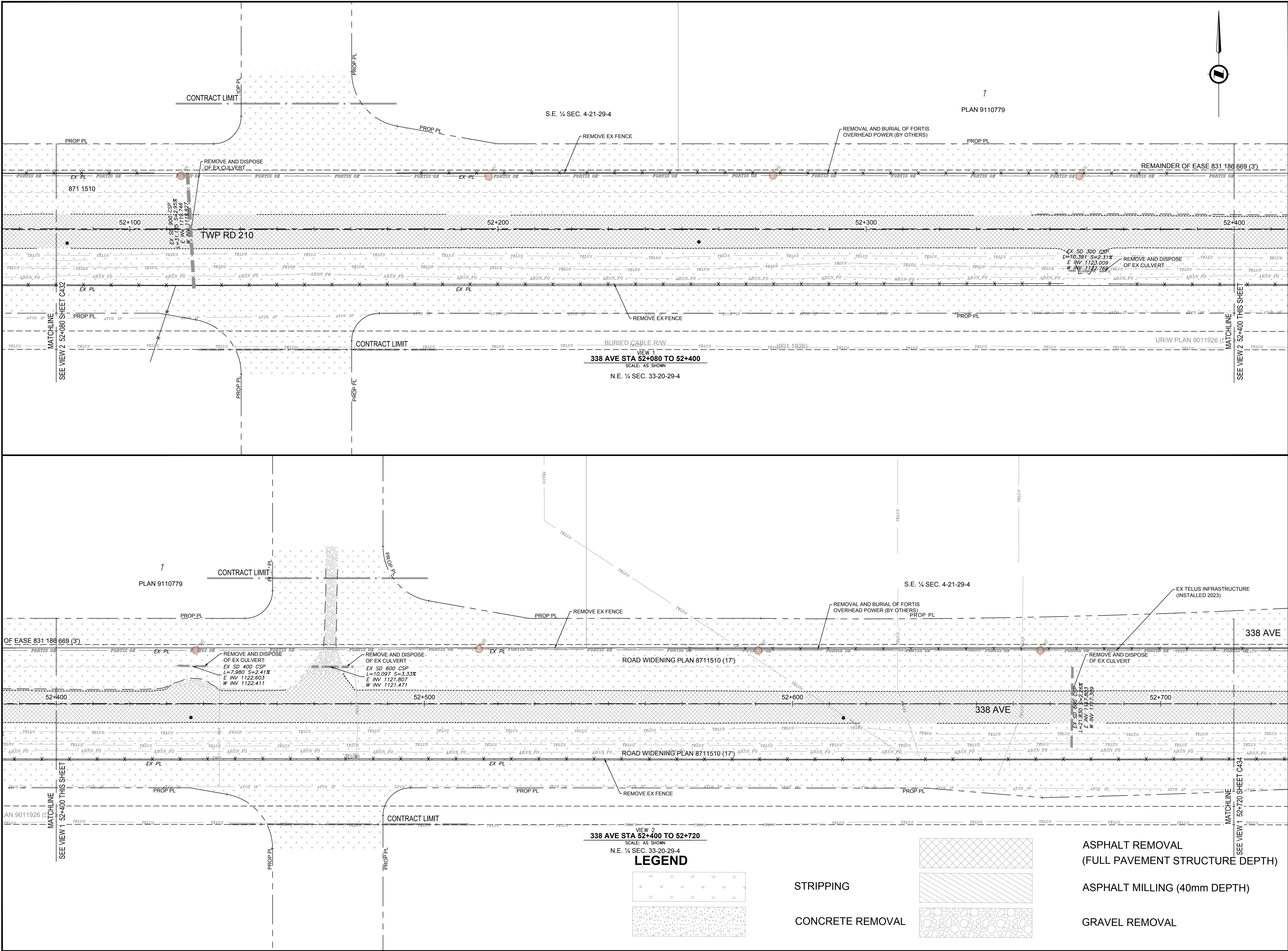
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| SHEET ID.<br><b>C431</b>    | SHEET NO.<br><b>41</b> |
| BY                          | DATE<br>(YYYY-MM-DD)   |
| DRAWN                       | PROFILE NO.            |







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NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
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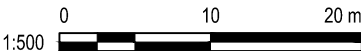
NOT FOR CONSTRUCTION



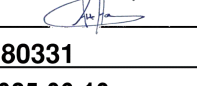
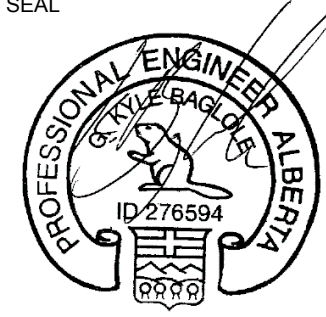
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NAD 83  
COORDINATES



| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |
|-----|-------------------------------|----------------------|----|------|
| C   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| B   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| A   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |

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| PERMIT                                                                                                                                                                                                                                                                                                                                                      |  | SEAL                                                                                  |
| <b>PERMIT TO PRACTICE</b><br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE: <br>RM APEGA ID # <b>80331</b><br>DATE: <b>2025-06-13</b><br><b>PERMIT NUMBER: P013381</b><br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |  |  |

| DESIGNED | BY       | DATE<br>(YYYY-MM-DD) |
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| DM       | DM       | 2024-07-15           |
| DRAWN    | DM       | 2024-07-15           |
| CHECKED  | KB       | 2024-07-15           |
| SCALE    | AS SHOWN |                      |



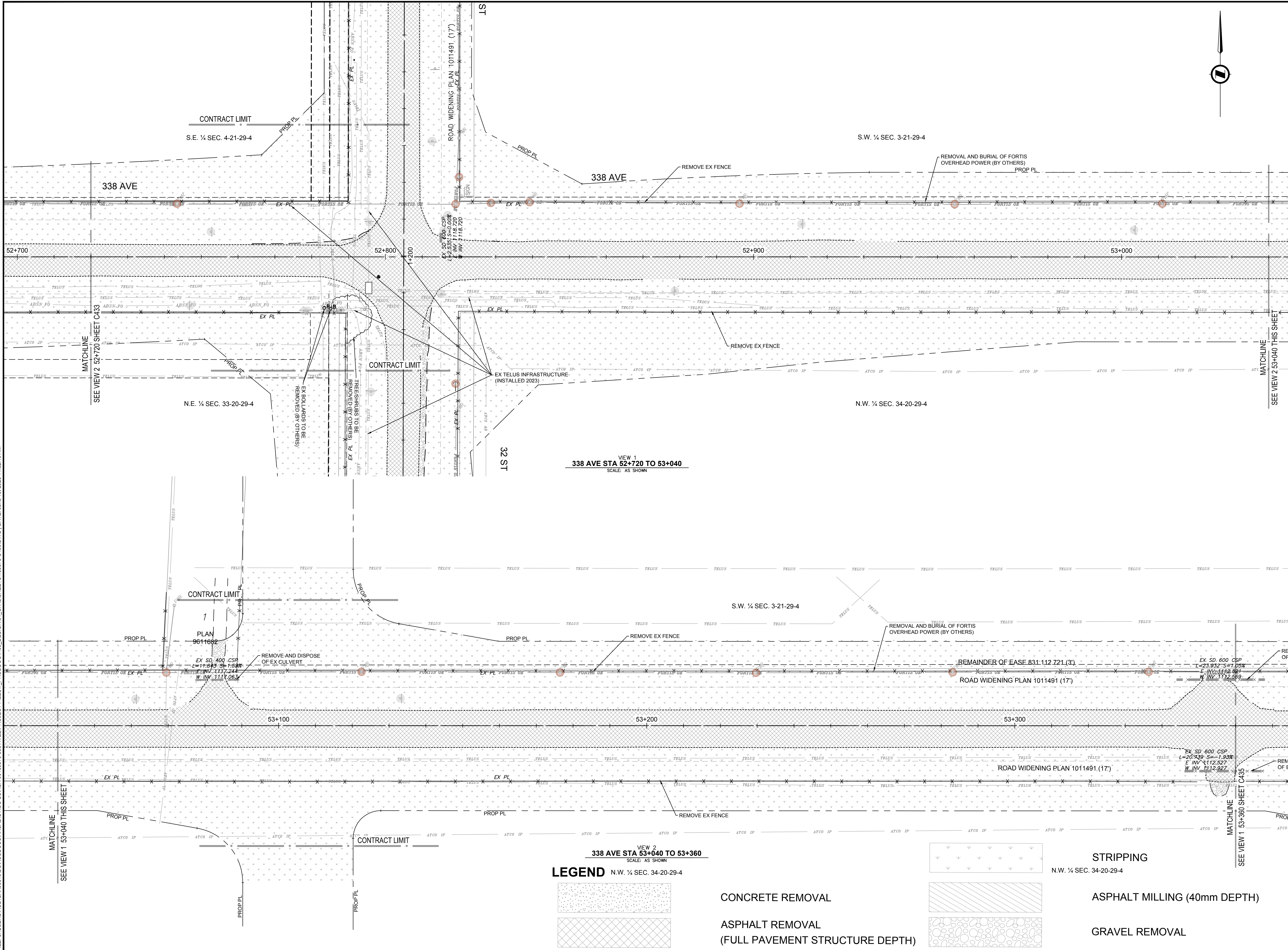
PROJECT  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTOKS, AB**

SHEET TITLE  
**REMOVAL DETAILS  
338 AVE  
STA 52+080 - 52+720**

|                      |              |
|----------------------|--------------|
| WORK ORDER NO.       | ACTIVITY NO. |
| 138875               | 138875       |
| FILE NO.             | ENG DWG NO.  |
| 138875-C430.dwg      |              |
| SHEET ID.            | SHEET NO.    |
| <b>C433</b>          | <b>43</b>    |
| DATE<br>(YYYY-MM-DD) | PROFILE NO.  |
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### NOTES

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8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.
9. EXISTING TELUS LINES WITHIN 338 AVENUE ROW TO BE REMOVED BY OTHERS. REFER TO TELUS RECORD DRAWINGS FOR INTERIM UTILITY LINE ASSIGNMENT ALONG THE NORTH SIDE OF 338 AVENUE.
10. EXISTING FORTIS OVERHEAD LINES TO BE REMOVED AND BURIED BY OTHERS.
11. ALL EXISTING ATCO GAS LINES TO REMAIN IN THEIR EXISTING LOCATIONS.
12. EXISTING ALBERTA SUPERNET LINE TO BE RELOCATED BY OTHERS.

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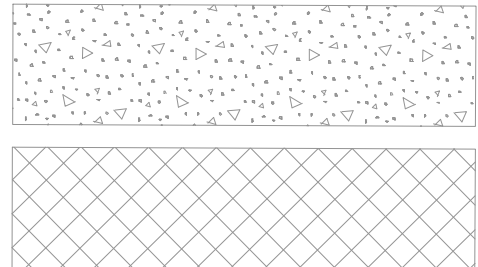
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COORDINATES

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| C                                                                                                                                                                                                                                                              | ISSUED FOR 100% DESIGN        | 2025-06-13                    | KB         | AH          |
| B                                                                                                                                                                                                                                                              | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30                    | KB         | AH          |
| A                                                                                                                                                                                                                                                              | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22                    | KB         | AH          |
| NO.                                                                                                                                                                                                                                                            | DESCRIPTION                   | DATE<br>(YYYY-MM-DD)          | BY         | APPD        |
| PERMIT                                                                                                                                                                                                                                                         |                               | SEAL                          |            |             |
| PERMIT TO PRACTICE<br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE:<br>RM APEGA ID # <b>80331</b><br>DATE: <b>2025-06-13</b><br>PERMIT NUMBER: <b>P013381</b><br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |                               |                               |            |             |
| DESIGNED                                                                                                                                                                                                                                                       | DM                            | DATE<br>(YYYY-MM-DD)          | 2024-07-15 |             |
| DRAWN                                                                                                                                                                                                                                                          | DM                            | DATE<br>(YYYY-MM-DD)          | 2024-07-15 |             |
| CHECKED                                                                                                                                                                                                                                                        | KB                            | DATE<br>(YYYY-MM-DD)          | 2024-07-15 |             |
| SCALE: AS SHOWN                                                                                                                                                                                                                                                |                               |                               |            |             |
|                                                                                                                                                                                                                                                                |                               |                               |            |             |
| PROJECT<br><b>338 AVE ROAD IMPROVEMENTS<br/>DETAILED DESIGN</b><br><b>OKOTAKS, AB</b>                                                                                                                                                                          |                               |                               |            |             |
| SHEET TITLE<br><b>REMOVAL DETAILS<br/>338 AVE<br/>STA 52+720 - 53+360</b>                                                                                                                                                                                      |                               |                               |            |             |
| WORK ORDER NO.                                                                                                                                                                                                                                                 |                               | ACTIVITY NO.<br><b>138875</b> |            |             |
| FILE NO.<br><b>138875-C430.dwg</b>                                                                                                                                                                                                                             |                               | ENG DWG NO.                   |            |             |
| SHEET ID.<br><b>C434</b>                                                                                                                                                                                                                                       |                               | SHEET NO.<br><b>44</b>        |            |             |
| BY                                                                                                                                                                                                                                                             |                               | DATE<br>(YYYY-MM-DD)          |            | PROFILE NO. |
| DRAWN                                                                                                                                                                                                                                                          |                               |                               |            |             |

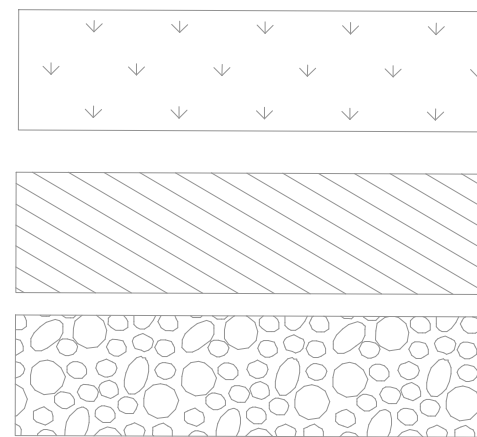
ISC: SHEET SIZE ANSI D 25 mm 0

### LEGEND



CONCRETE REMOVAL

ASPHALT REMOVAL  
(FULL PAVEMENT STRUCTURE DEPTH)

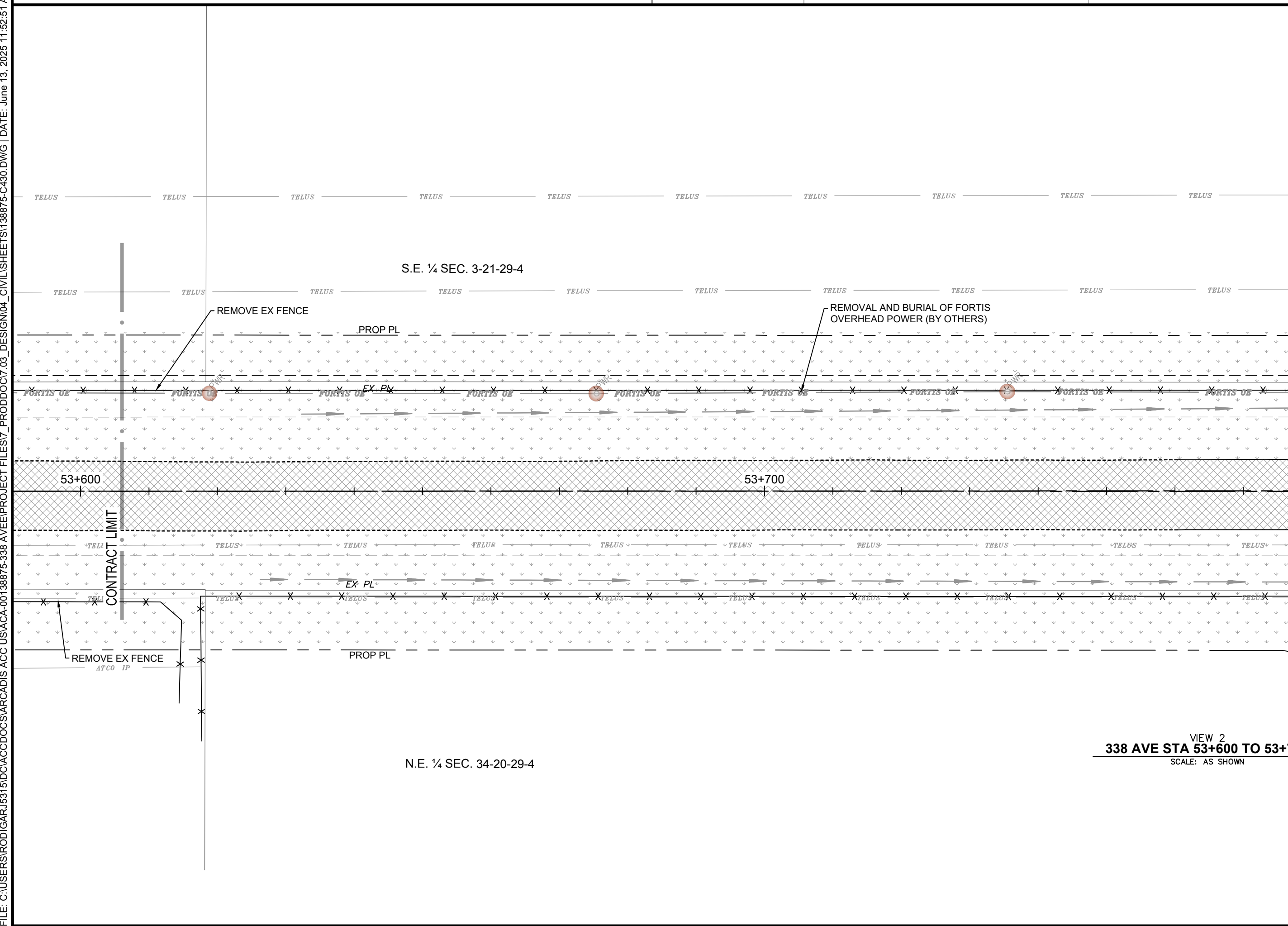


STRIPPING

ASPHALT MILLING (40mm DEPTH)

GRAVEL REMOVAL





STRIPPING

CONCRETE REMOVAL

ASPHALT REMOVAL  
(FULL PAVEMENT STRUCTURE DEPTH)

ASPHALT MILLING (40mm DEPTH)

GRAVEL REMOVAL

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL UTILITIES, STRUCTURES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO DRAWING G003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMP DETAILS TO BE PROVIDED FOR EACH RAMP IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND CONTRACTOR SHALL VERIFY ALL UTILITIES AND INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFORM UTILITY LOCATIONS WITH MUNICIPAL AND CITY OWNERS RECORDS.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.
9. EXISTING TELUS LINES WITHIN 338 AVENUE ROW TO BE REMOVED BY OTHERS. REFER TO TELUS RECORD DRAWINGS FOR INTERIM UTILITY LINE ASSIGNMENTS ALONG THE NORTH SIDE OF 338 AVENUE.
10. EXISTING FORTIS OVERHEAD LINES TO BE REMOVED AND BURIED BY OTHERS.
11. ALL EXISTING ATCO GAS LINES TO REMAIN IN THEIR EXISTING LOCATIONS.
12. EXISTING ALBERTA SUPERNET LINE TO BE RELOCATED BY OTHERS.

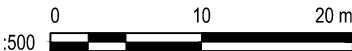


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| C   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| B   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| A   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-27           | KB | AH   |
| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |

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ARCADIS PROFESSIONAL SERVICES (CANADA) INC.

RM SIGNATURE: 

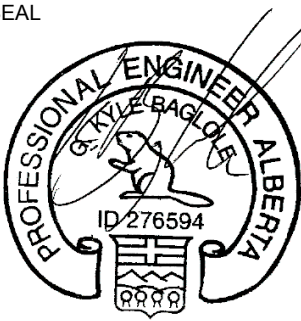
RM APEGA ID #: 80331

DATE: 2025-06-13

PERMIT NUMBER: P013381

The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

SEAL



|         |    |                      |
|---------|----|----------------------|
|         | BY | DATE<br>(YYYY-MM-DD) |
| DRAWN   | DM | 2024-07-15           |
| CHECKED | KB | 2024-07-15           |

SCALE AS SHOWN



|         |                                              |
|---------|----------------------------------------------|
| PROJECT | 338 AVE ROAD IMPROVEMENTS<br>DETAILED DESIGN |
|         | OKOTOKS, AB                                  |

|             |                                                   |
|-------------|---------------------------------------------------|
| SHEET TITLE | REMOVAL DETAILS<br>338 AVE<br>STA 53+360 - 53+780 |
|-------------|---------------------------------------------------|

|                 |              |                      |             |
|-----------------|--------------|----------------------|-------------|
| WORK ORDER NO.  | ACTIVITY NO. |                      |             |
|                 | 138875       |                      |             |
| FILE NO.        | ENG DWG NO.  |                      |             |
| 138875-C430.dwg |              |                      |             |
| SHEET ID.       | SHEET NO.    |                      |             |
| C435            | 45           |                      |             |
| DRAWN           | BY           | DATE<br>(YYYY-MM-DD) | PROFILE NO. |
|                 |              |                      |             |



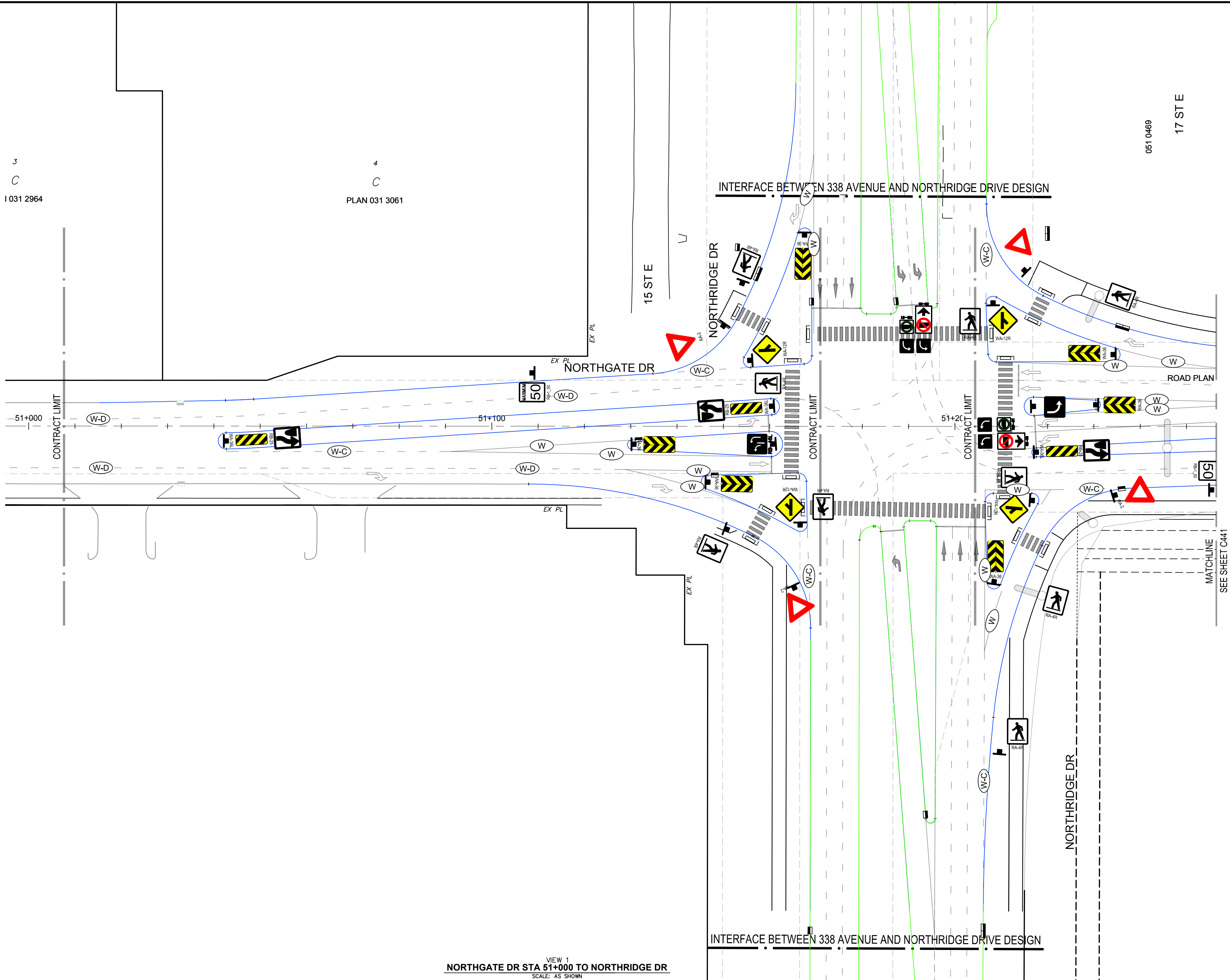
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LEGEND

- WHITE SOLID LINE
- EDGE LINES
  - LANE LINES PROHIBITING LANE CHANGES
- WHITE BROKEN
- LANE LINES
- WHITE BROKEN
- CONTINUITY LINES

3  
C  
1 031 2964

4  
C  
PLAN 031 3061



NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING 0003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.

NOTE: REFER TO THE LANDSCAPE DRAWINGS FOR ALL DETAILS WITHIN THE BOULEVARD AND MEDIANS

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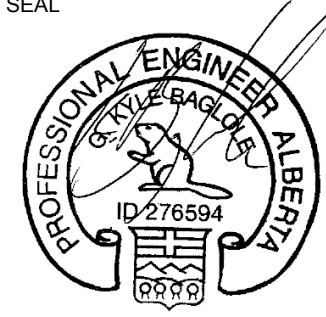


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COORDINATES

| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |
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| C   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| B   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| A   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |

|                                                                                                                                                                                                                                                                              |  |                                                                                                                    |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------|--|
| <b>PERMIT TO PRACTICE</b><br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE: _____<br>RM APEGA ID # <b>80331</b><br>DATE: <b>2025-06-13</b><br><b>PERMIT NUMBER: P013381</b><br>The Association of Professional Engineers and Geoscientists of Alberta (APEGAB) |  | <b>SEAL</b><br><br>2025-06-13 |  |
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| DESIGNED                    | DM | DATE<br>(YYYY-MM-DD) | 2024-07-15 |
| DRAWN                       | DM | DATE<br>(YYYY-MM-DD) | 2024-07-15 |
| CHECKED                     | KB | DATE<br>(YYYY-MM-DD) | 2024-07-15 |
| SCALE<br>1:500<br>0 10 20 m |    |                      |            |



PROJECT  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTOKS, AB**

SHEET TITLE  
**PAVEMENT MARKINGS AND SIGNAGE  
NORTHGATE DR  
STA 51+000 - NORTHRIDGE DR**

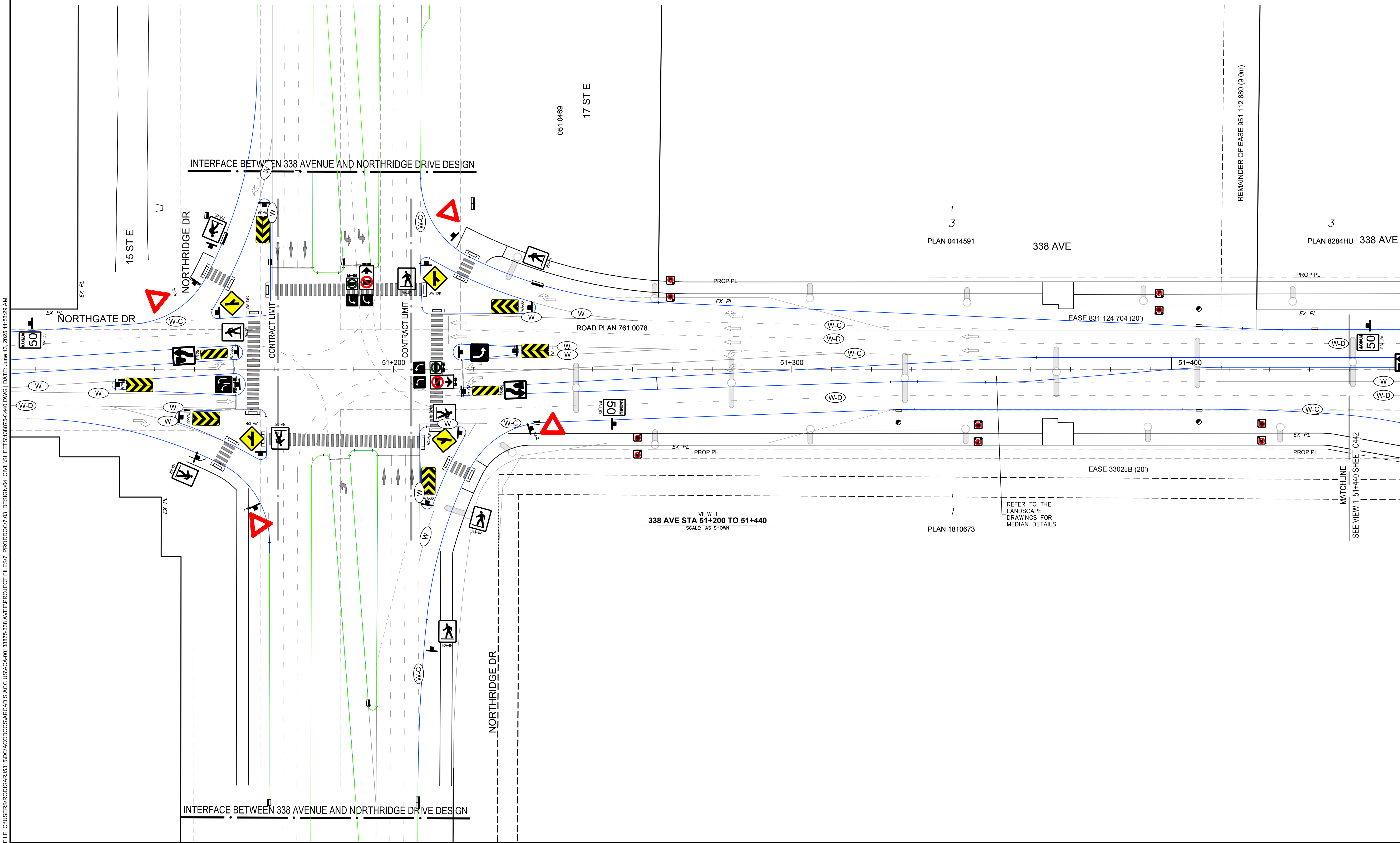
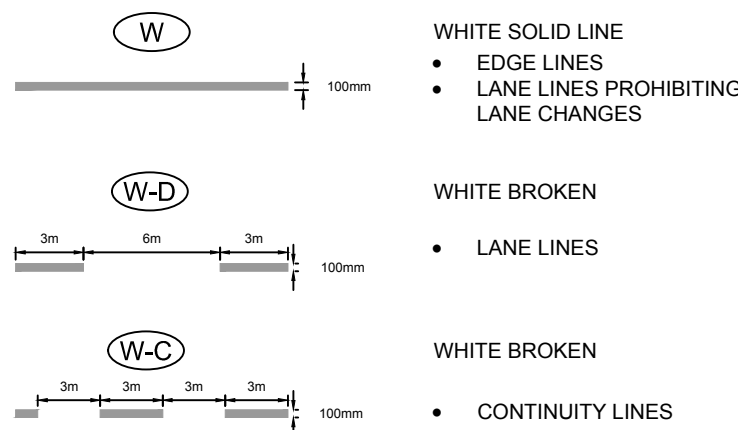
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| WORK ORDER NO.              | ACTIVITY NO.           |
| FILE NO.<br>138875-C440.dwg | ENG DWG NO.            |
| SHEET ID.<br><b>C440</b>    | SHEET NO.<br><b>46</b> |
| BY                          | DATE<br>(YYYY-MM-DD)   |
| DRAWN                       | PROFILE NO.            |

ISC: SHEET SIZE ANSI D 25 mm



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LEGEND



NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING 0003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.

NOTE: REFER TO THE LANDSCAPE DRAWINGS FOR ALL DETAILS WITHIN THE BOULEVARD AND MEDIANS

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| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |
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| B   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| A   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |

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ARCADIS PROFESSIONAL SERVICES (CANADA) INC.

RM SIGNATURE: \_\_\_\_\_

RM APEGA ID # **80331**

DATE: **2025-06-13**

**PERMIT NUMBER: P013381**

The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

SEAL

PROFESSIONAL ENGINEER ALBERTA

60302563

2025-06-13

| DESIGNED | BY                 | DATE<br>(YYYY-MM-DD) |
|----------|--------------------|----------------------|
| DM       | DM                 | 2024-07-15           |
| DRAWN    | DM                 | 2024-07-15           |
| CHECKED  | KB                 | 2024-07-15           |
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PROJECT

**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**

**OKOTOKS, AB**

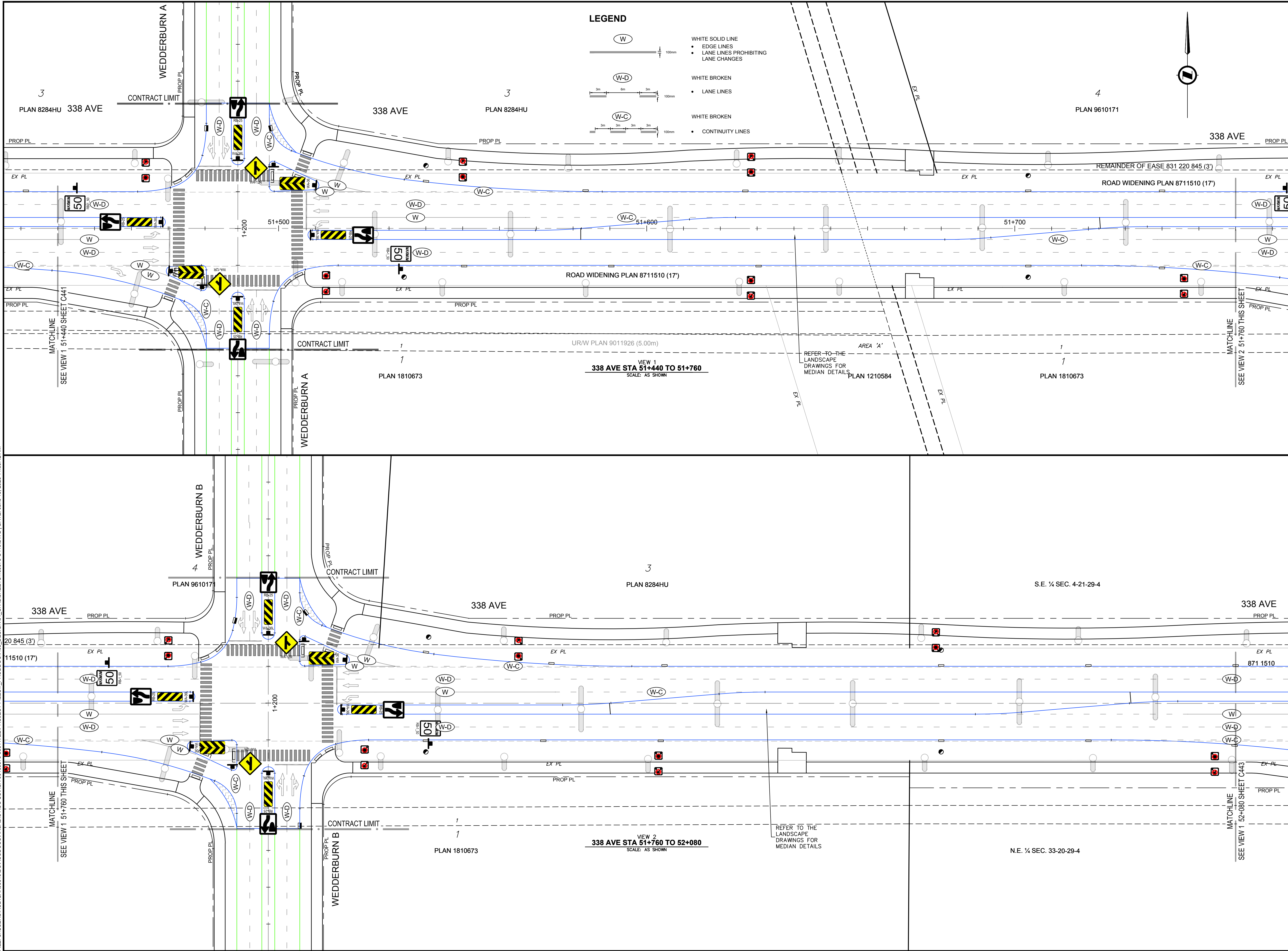
SHEET TITLE

**PAVEMENT MARKINGS AND SIGNAGE  
338 AVE  
NORTHBRIDGE DR - STA 51+440**

|                 |    |              |             |
|-----------------|----|--------------|-------------|
| WORK ORDER NO.  |    | ACTIVITY NO. |             |
|                 |    | 138875       |             |
| FILE NO.        |    | ENG DWG NO.  |             |
| 138875-C440.dwg |    |              |             |
| SHEET ID.       |    | SHEET NO.    |             |
| C441            |    | 47           |             |
|                 | BY | DATE         | PROFILE NO. |
|                 |    | (YYYY-MM-DD) |             |
| DRAWN           |    |              |             |



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### NOTES

- ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
- REFER TO LEGEND DRAWING 0003 FOR SURFACE AND LINE DESCRIPTIONS.
- WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
- UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
- REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
- PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
- CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.

NOTE: REFER TO THE LANDSCAPE DRAWINGS FOR ALL DETAILS WITHIN THE BOULEVARD AND MEDIANS

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| A                                                                                                                                                                                                                                                                             | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22             | KB         | AH          |  |
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| PERMIT                                                                                                                                                                                                                                                                        |                               | SEAL                   |            |             |  |
| <b>PERMIT TO PRACTICE</b><br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE: _____<br>RM APEGA ID #: <b>80331</b><br>DATE: <b>2025-06-13</b><br><b>PERMIT NUMBER: P013381</b><br>The Association of Professional Engineers and Geoscientists of Alberta (APEGGA) |                               |                        |            |             |  |
| DESIGNED                                                                                                                                                                                                                                                                      | DM                            | DATE (YYYY-MM-DD)      | 2024-07-15 |             |  |
| DRAWN                                                                                                                                                                                                                                                                         | DM                            | DATE (YYYY-MM-DD)      | 2024-07-15 |             |  |
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| PROJECT<br><b>338 AVE ROAD IMPROVEMENTS<br/>DETAILED DESIGN</b><br><b>OKOTOKS, AB</b>                                                                                                                                                                                         |                               |                        |            |             |  |
| SHEET TITLE<br><b>PAVEMENT MARKINGS AND SIGNAGE</b><br><b>338 AVE</b><br><b>STA 51+440 - 52+080</b>                                                                                                                                                                           |                               |                        |            |             |  |
| WORK ORDER NO.                                                                                                                                                                                                                                                                |                               | ACTIVITY NO.<br>138875 |            |             |  |
| FILE NO.<br>138875-C440.dwg                                                                                                                                                                                                                                                   |                               | ENG DWG NO.            |            |             |  |
| SHEET ID.<br><b>C442</b>                                                                                                                                                                                                                                                      |                               | SHEET NO.<br><b>48</b> |            |             |  |
| BY                                                                                                                                                                                                                                                                            |                               | DATE (YYYY-MM-DD)      |            | PROFILE NO. |  |
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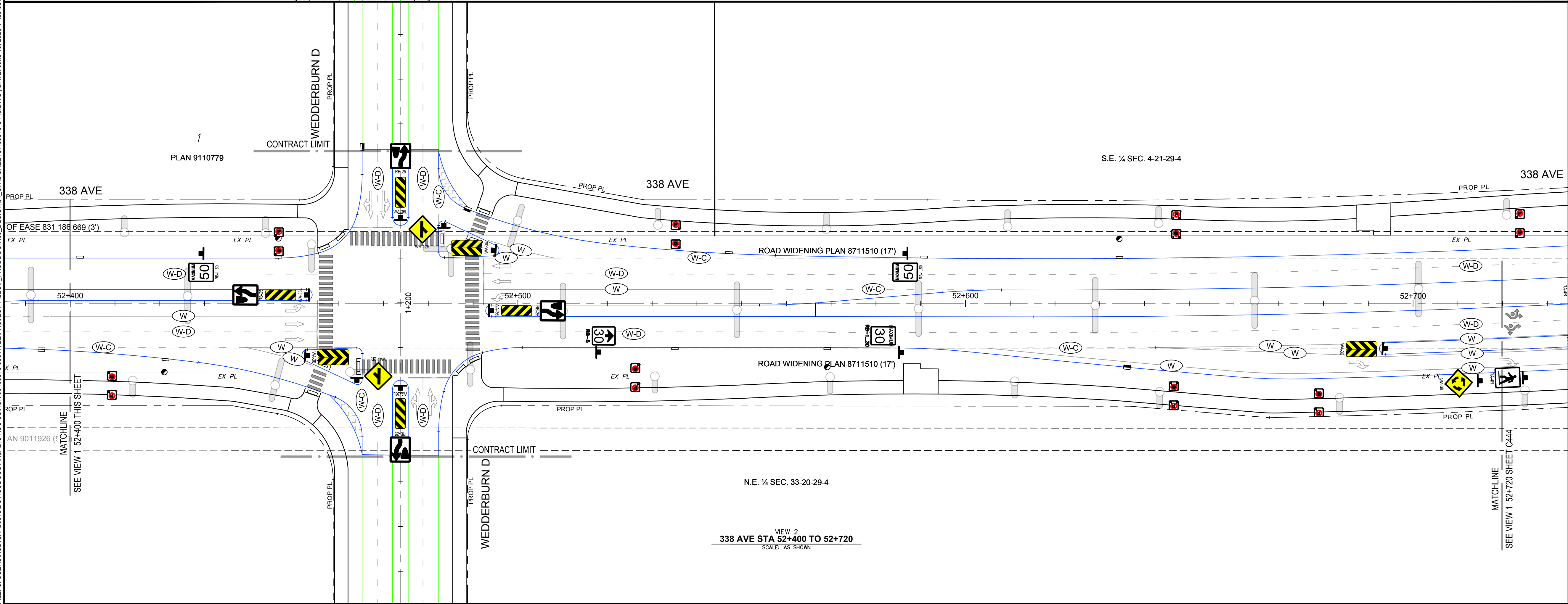
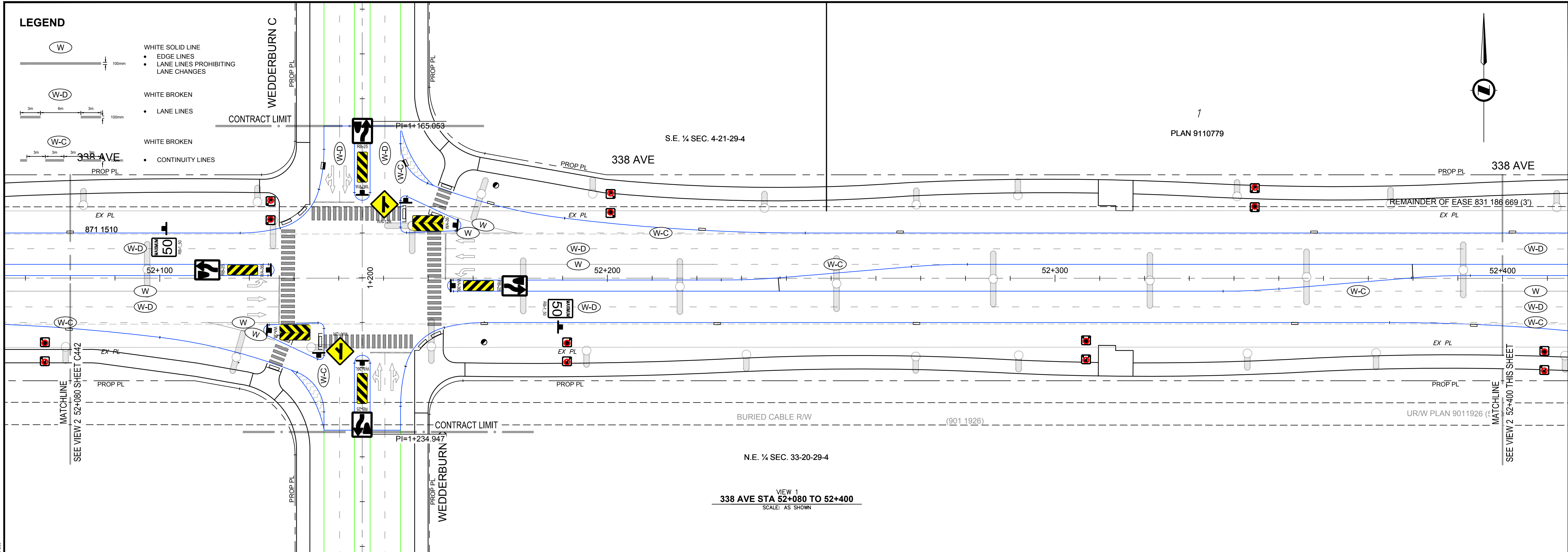
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## NOTES

- ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
- REFER TO LEGEND DRAWING 0003 FOR SURFACE AND LINE DESCRIPTIONS.
- WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
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NAD 83  
COORDINATES

| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |
|-----|-------------------------------|----------------------|----|------|
| C   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| B   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| A   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |

|                                                                                                                                                                                                                                                                        |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| PERMIT                                                                                                                                                                                                                                                                 | SEAL |
| <b>PERMIT TO PRACTICE</b><br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE:<br>RM APEGA ID #: <b>80331</b><br>DATE: <b>2025-06-13</b><br><b>PERMIT NUMBER: P013381</b><br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |      |

|          |           |                      |
|----------|-----------|----------------------|
| DESIGNED | DM        | DATE<br>(YYYY-MM-DD) |
| DRAWN    | DM        | 2024-07-15           |
| CHECKED  | KB        | 2024-07-15           |
| SCALE    | 0 10 20 m |                      |



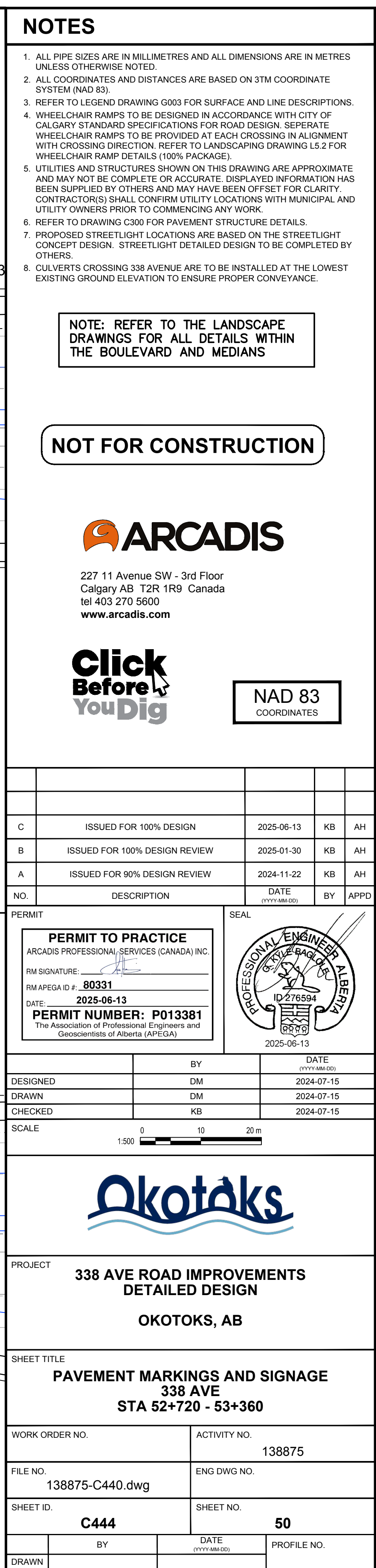
PROJECT  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTAKS, AB**

SHEET TITLE  
**PAVEMENT MARKINGS AND SIGNAGE  
338 AVE  
STA 52+080 - 52+720**

|                             |                        |
|-----------------------------|------------------------|
| WORK ORDER NO.              | ACTIVITY NO.           |
| FILE NO.<br>138875-C440.dwg | ENG DWG NO.<br>138875  |
| SHEET ID.<br><b>C443</b>    | SHEET NO.<br><b>49</b> |
| BY                          | DATE<br>(YYYY-MM-DD)   |
| DRAWN                       | PROFILE NO.            |

ISC: SHEET SIZE ANSI D 25 mm







ISC: SHEET SIZE ANSI D 25 mm





4  
C  
PLAN 031 3061

INTERFACE BETWEEN 338 AVENUE AND NORTH RIDGE DRIVE DESIGN

VIEW 1  
STA 51+000 T  
SCALE: AS SHOWN

1. ALL PIPE SIZES ARE IN MILLIMETERS AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING G003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DRAINAGE. SEE DRAWING D-10 FOR CROSSING DRAWING L-5 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN PROVIDED FOR INFORMATION ONLY AND MAY NOT BE OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
6. REFER TO DRAWING C300 FOR EXISTING STRUCTURE DETAILS.
7. PROPOSED STREET LIGHTING SHALL BE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. SEE DETAIL A ON DRAWING C510 (TROJAN INDUSTRIES INC. FLOW THROUGH SIDE INLET 1200 OR APPROVED EQUIVALENT).
9. SEE DETAIL B ON DRAWING C510 (TROJAN INDUSTRIES INC. TF-50 BEEHIVE GATE D&L OR APPROVED EQUIVALENT).
10. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.
11. PRIOR TO CULVERT INSTALLATION, IT IS RECOMMENDED THAT THE LOCATION AND INVERTS ARE COORDINATED BETWEEN THE DEVELOPERS TO THE NORTH AND SOUTH OF 338 AVENUE.

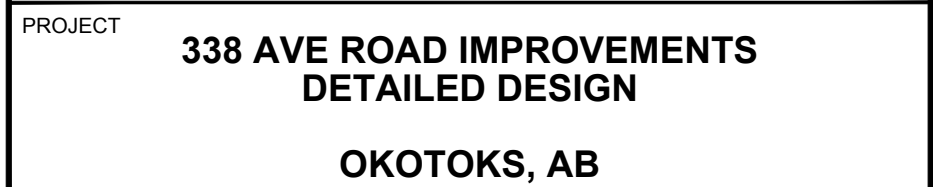


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Before  
You Dig**

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| <b>PERMIT</b>                                                                                       | <b>SEAL</b>                                                                           |
| <b>PERMIT TO PRACTICE</b>                                                                           |                                                                                       |
| ARCADIS PROFESSIONAL SERVICES (CANADA) INC.                                                         |                                                                                       |
| RM SIGNATURE:  |  |
| RM APEGA ID #: <b>80331</b>                                                                         |                                                                                       |
| DATE: <b>2025-06-13</b>                                                                             |                                                                                       |
| <b>PERMIT NUMBER: P013381</b>                                                                       |                                                                                       |
| The Association of Professional Engineers and<br>Geoscientists of Alberta (APEGA)                   |                                                                                       |
| 2025-06-13                                                                                          |                                                                                       |

SCALE AS SHOWN



|                             |    |                      |             |
|-----------------------------|----|----------------------|-------------|
| WORK ORDER NO.              |    | ACTIVITY NO.         |             |
|                             |    | 138875               |             |
| FILE NO.<br>138875-C450.dwg |    | ENG DWG NO.          |             |
| SHEET ID.                   |    | SHEET NO.            |             |
| C450                        |    | 52                   |             |
|                             | BY | DATE<br>(YYYY-MM-DD) | PROFILE NO. |
| DRAWN                       |    |                      |             |

ISC: SHEET SIZE ANSI D 25 mm



1. ALL PIPE SIZES ARE IN MILLIMETERS AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 37M COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING 0003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO CROSSING DRAWING L3.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN OBTAINED FROM RECORD DRAWINGS AND MAY BE OFF SET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
6. REFER TO DRAWING C300 FOR PAYMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHTS AND FIXTURES ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. SEE DETAIL A ON DRAWING C510 (TROJAN INDUSTRIES INC. FLOW THROUGH SIDE INLET 1200 OR APPROVED EQUIVALENT).
9. SEE DETAIL B ON DRAWING C510 (TROJAN INDUSTRIES INC. TF-50 BEEHIVE DETAIL D&L OR APPROVED EQUIVALENT).
10. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.
11. PRIOR TO CULVERT INSTALLATION, IT IS RECOMMENDED THAT THE LOCATION AND INVERTS ARE COORDINATED BETWEEN THE DEVELOPERS TO THE NORTH AND SOUTH OF 338 AVENUE.



**Click  
Before  
You Dig**

|                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <p><b>PERMIT</b></p> <p><b>PERMIT TO PRACTICE</b></p> <p>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.</p> <p>RM SIGNATURE: </p> <p>RM APEGA ID #: <b>80331</b></p> <p>DATE: <b>2025-06-13</b></p> <p><b>PERMIT NUMBER: P013381</b></p> <p>The Association of Professional Engineers and<br/>Geoscientists of Alberta (APEGA)</p> | <p><b>SEAL</b></p>  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|

AS SHOWN

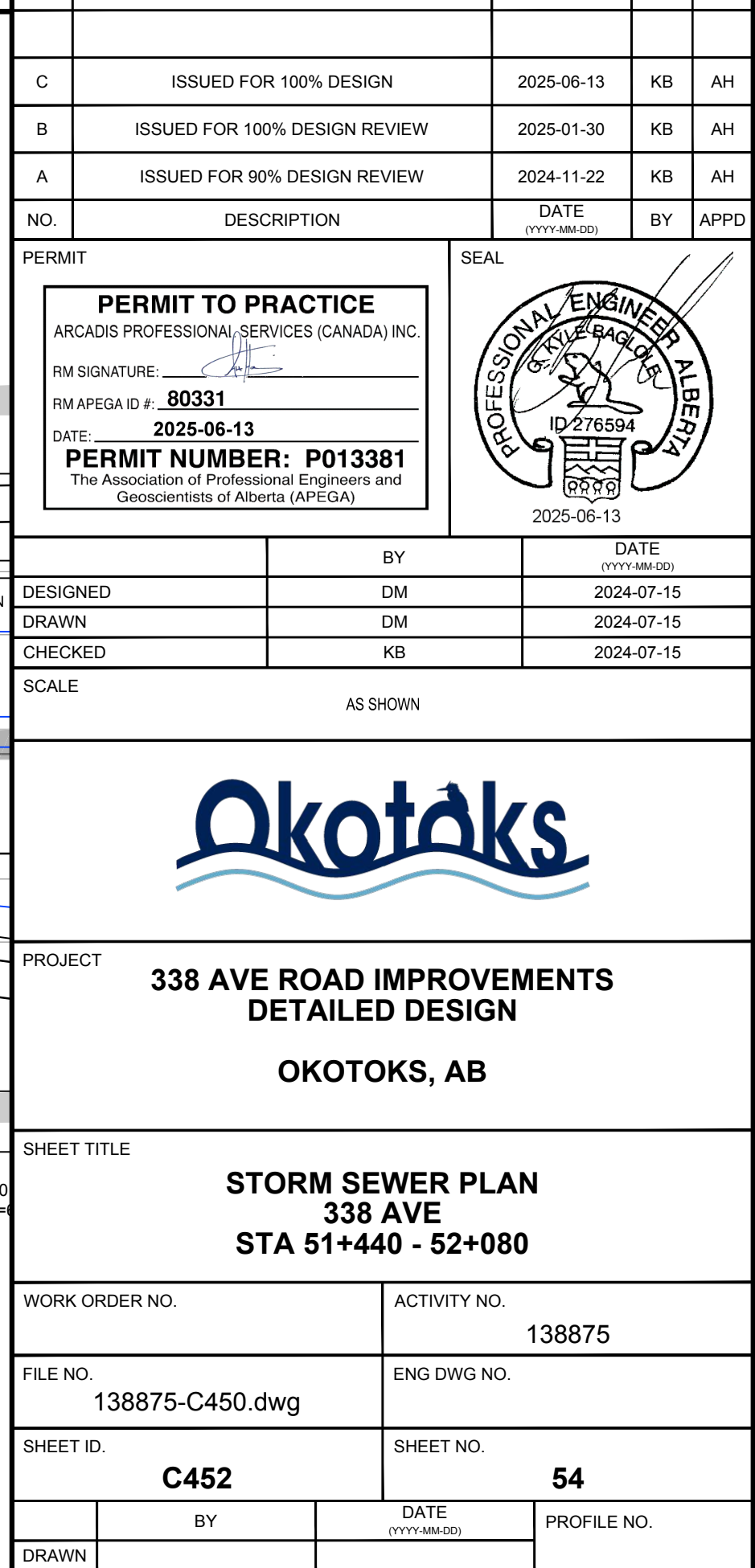
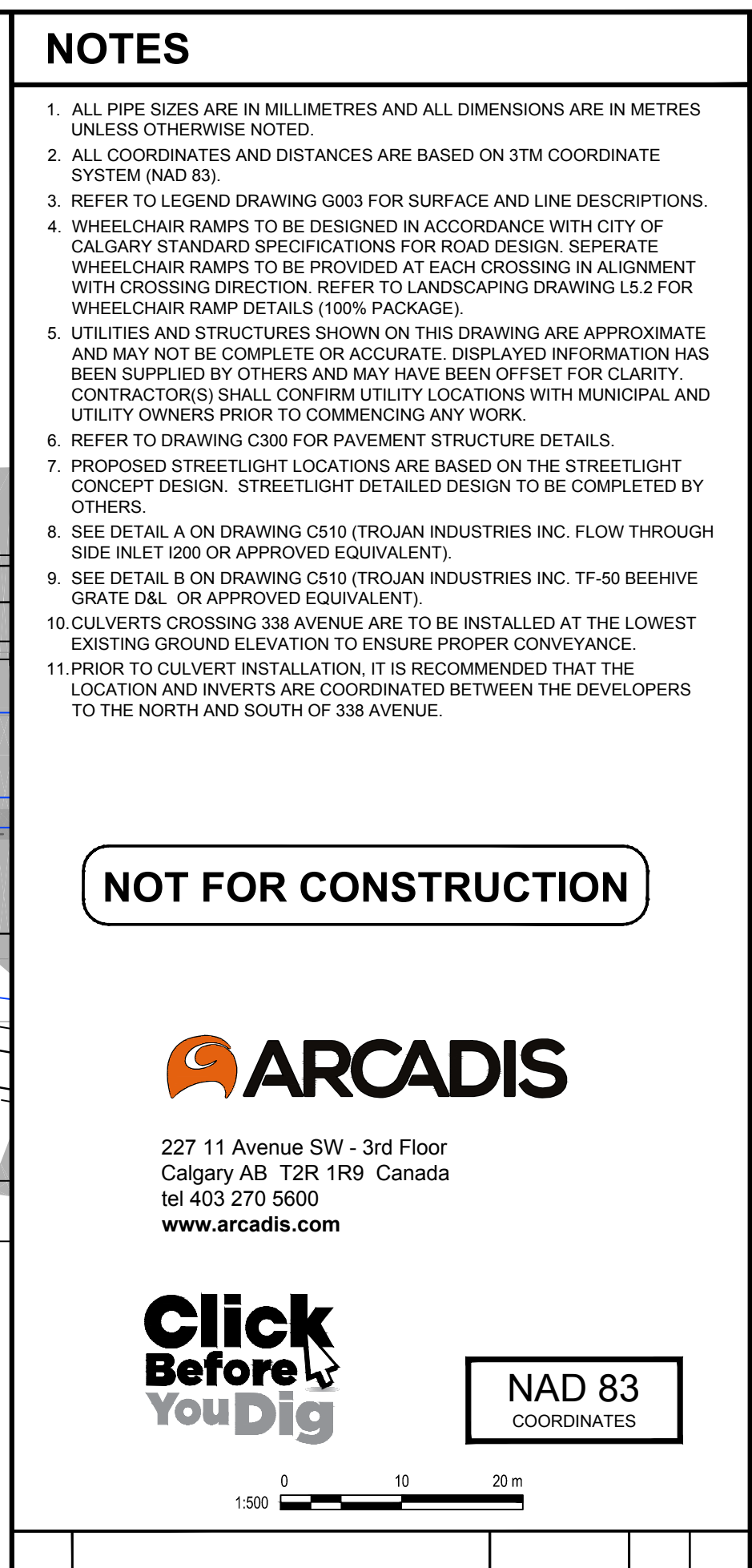
SHEET TITLE

**STORM SEWER PLAN  
338 AVE  
NORTHRIDGE DR - STA 51+440**

|                             |    |                        |             |
|-----------------------------|----|------------------------|-------------|
| WORK ORDER NO.              |    | ACTIVITY NO.           |             |
|                             |    | 138875                 |             |
| FILE NO.<br>138875-C450.dwg |    | ENG DWG NO.            |             |
| SHEET ID.<br><b>C451</b>    |    | SHEET NO.<br><b>53</b> |             |
|                             | BY | DATE<br>(YYYY-MM-DD)   | PROFILE NO. |
| DRAWN                       |    |                        |             |

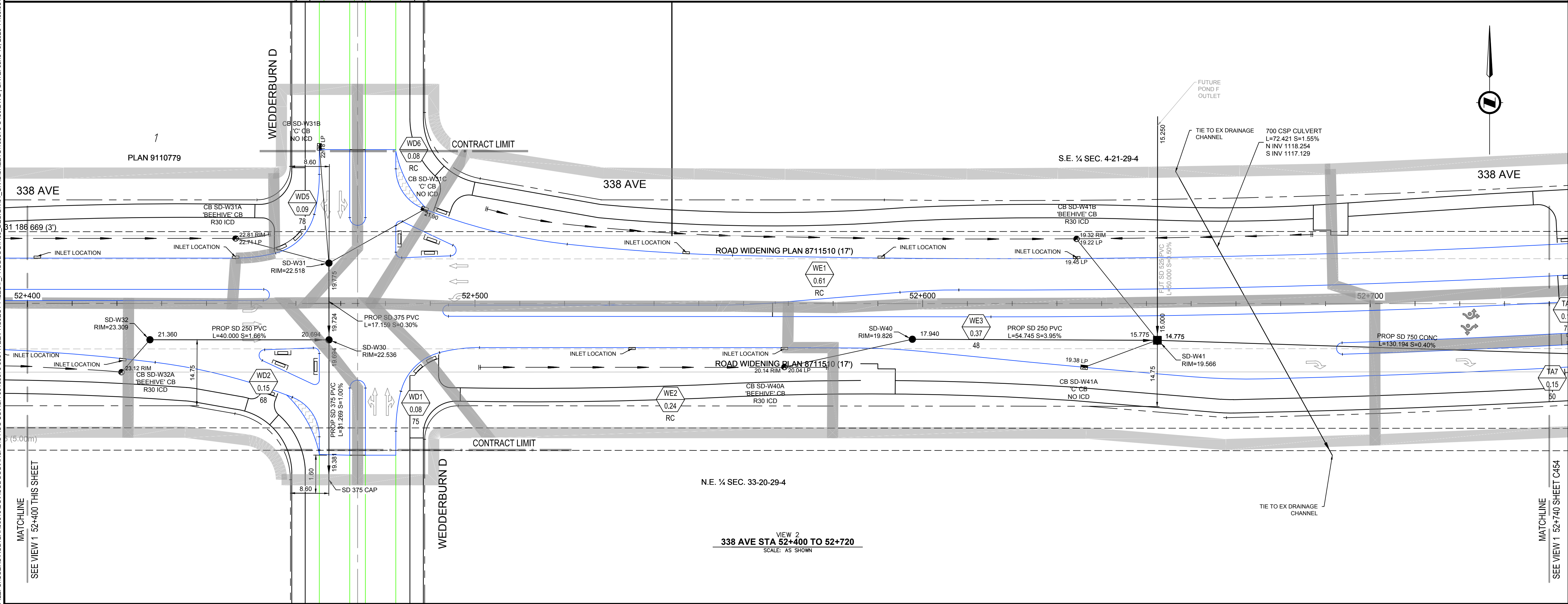
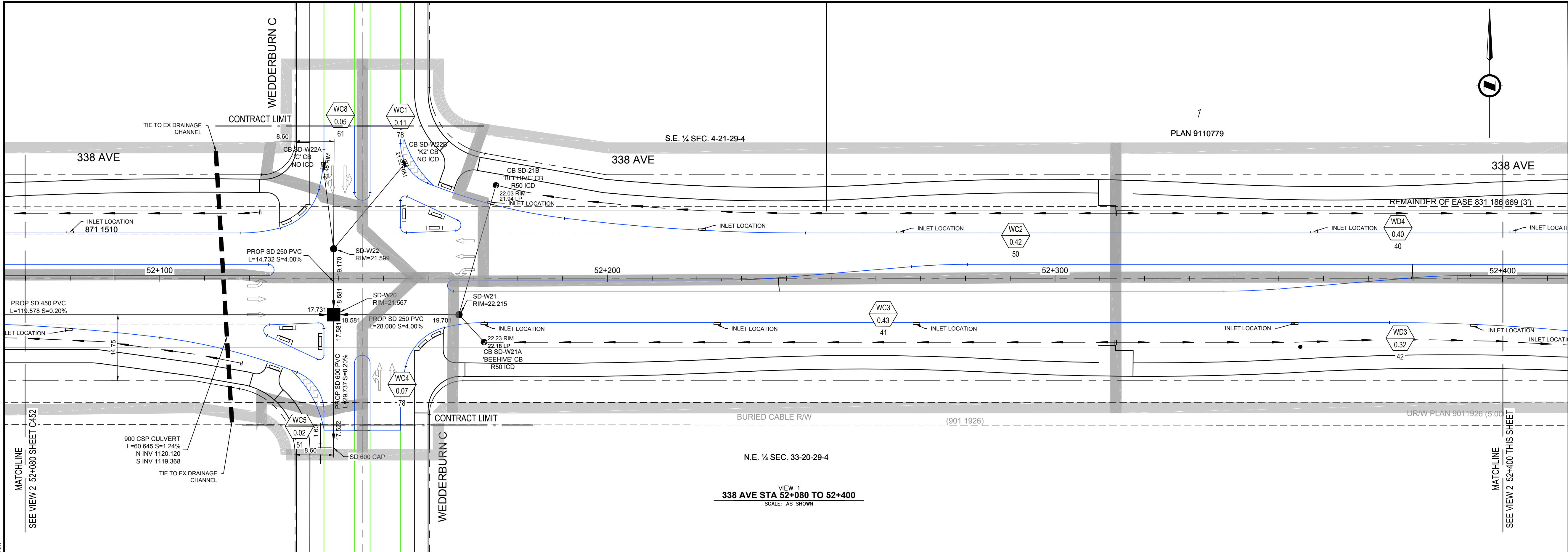
ISC: SHEET SIZE ANSI D 25 mm







FILE: C:\USERS\ROD\GARIB31\BDO\ACCD\OS\ARCADIS\ACC US\ACA-001\8875-338 AVE\PROJECT FILES\7\_PROD\DOT\03\_DESIGN\04\_CIVIL\SHEETS\138875-C480.DWG | DATE: June 13, 2025 11:56:03 AM



## NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING G003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. SEE DETAIL A ON DRAWING C510 (TROJAN INDUSTRIES INC. FLOW THROUGH SIDE INLET 1200 OR APPROVED EQUIVALENT).
9. SEE DETAIL B ON DRAWING C510 (TROJAN INDUSTRIES INC. TF-50 BEEHIVE GRATE D&L OR APPROVED EQUIVALENT).
10. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.
11. PRIOR TO CULVERT INSTALLATION, IT IS RECOMMENDED THAT THE LOCATION AND INVERTS ARE COORDINATED BETWEEN THE DEVELOPERS TO THE NORTH AND SOUTH OF 338 AVENUE.

NOT FOR CONSTRUCTION



227 11 Avenue SW - 3rd Floor  
Calgary AB T2R 1R9 Canada  
tel 403 270 5600  
www.arcadis.com



NAD 83  
COORDINATES



| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |
|-----|-------------------------------|----------------------|----|------|
| C   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| B   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| A   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |

|                                                                                |                                                                                |                               |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------|
| PERMIT                                                                         | PERMIT TO PRACTICE                                                             | SEAL                          |
| ARCADIS PROFESSIONAL SERVICES (CANADA) INC.                                    | ARCADIS PROFESSIONAL SERVICES (CANADA) INC.                                    | PROFESSIONAL ENGINEER ALBERTA |
| RM SIGNATURE: [Signature]                                                      | RM SIGNATURE: [Signature]                                                      | PROFESSIONAL ENGINEER ALBERTA |
| RM APEGA ID # 80331                                                            | RM APEGA ID # 80331                                                            | PROFESSIONAL ENGINEER ALBERTA |
| DATE: 2025-06-13                                                               | DATE: 2025-06-13                                                               | PROFESSIONAL ENGINEER ALBERTA |
| PERMIT NUMBER: P013381                                                         | PERMIT NUMBER: P013381                                                         | PROFESSIONAL ENGINEER ALBERTA |
| The Association of Professional Engineers and Geoscientists of Alberta (APEGA) | The Association of Professional Engineers and Geoscientists of Alberta (APEGA) | PROFESSIONAL ENGINEER ALBERTA |

| DESIGNED | BY       | DATE<br>(YYYY-MM-DD) |
|----------|----------|----------------------|
| DM       | DM       | 2024-07-15           |
| DRAWN    | BY       | DATE<br>(YYYY-MM-DD) |
| DM       | DM       | 2024-07-15           |
| CHECKED  | BY       | DATE<br>(YYYY-MM-DD) |
| KB       | KB       | 2024-07-15           |
| SCALE    | AS SHOWN |                      |



|         |                                                             |
|---------|-------------------------------------------------------------|
| PROJECT | 338 AVE ROAD IMPROVEMENTS<br>DETAILED DESIGN<br>OKOTOKS, AB |
|---------|-------------------------------------------------------------|

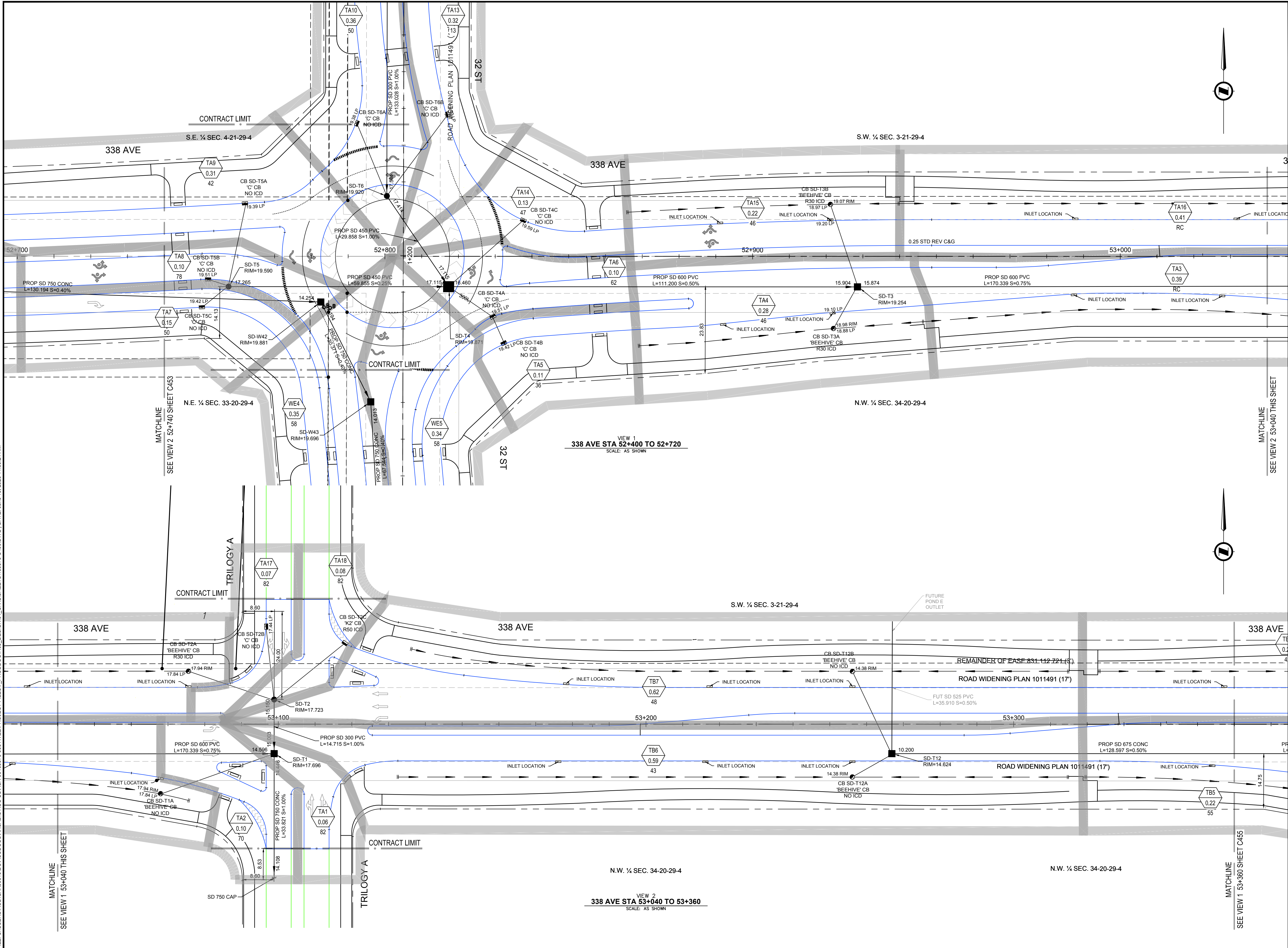
|             |                                                    |
|-------------|----------------------------------------------------|
| SHEET TITLE | STORM SEWER PLAN<br>338 AVE<br>STA 52+080 - 52+740 |
|-------------|----------------------------------------------------|

|                 |                      |
|-----------------|----------------------|
| WORK ORDER NO.  | ACTIVITY NO.         |
| 138875          | 138875               |
| FILE NO.        | ENG DWG NO.          |
| 138875-C450.dwg |                      |
| SHEET ID.       | SHEET NO.            |
| C453            | 55                   |
| BY              | DATE<br>(YYYY-MM-DD) |
|                 |                      |
| DRAWN           | PROFILE NO.          |
|                 |                      |

ISC: SHEET SIZE ANSI D 25 mm



FILE: C:\USERS\ROD\GARIB3\BDO\ACCD\OS\ARCADIS\ACC USACA-01\88875-338 AVE\PROJECT FILES\7\_PROD\DOC\7.03\_DESIGN\04\_CIVIL\SHEETS\138875-C450.DWG | DATE: June 13, 2025 11:58:21 AM



### NOTES

- ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
- REFER TO LEGEND DRAWING 0003 FOR SURFACE AND LINE DESCRIPTIONS.
- WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
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- REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
- PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
- SEE DETAIL A ON DRAWING C510 (TROJAN INDUSTRIES INC. FLOW THROUGH SIDE INLET (200 OR APPROVED EQUIVALENT)).
- SEE DETAIL B ON DRAWING C510 (TROJAN INDUSTRIES INC. TF-50 BEEHIVE GRATE D&L OR APPROVED EQUIVALENT).
- CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.
- PRIOR TO CULVERT INSTALLATION, IT IS RECOMMENDED THAT THE LOCATION AND INVERTS ARE COORDINATED BETWEEN THE DEVELOPERS TO THE NORTH AND SOUTH OF 338 AVENUE.

NOT FOR CONSTRUCTION

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NAD 83  
COORDINATES

1:500

| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |
|-----|-------------------------------|----------------------|----|------|
| C   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| B   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| A   | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22           | KB | AH   |

PERMIT

PERMIT TO PRACTICE

ARCADIS PROFESSIONAL SERVICES (CANADA) INC.

RM SIGNATURE:

RM APEGA ID # **80331**

DATE: **2025-06-13**

PERMIT NUMBER: **P013381**

The Association of Professional Engineers and Geoscientists of Alberta (APEGGA)

SEAL

PROFESSIONAL ENGINEER  
ALBERTA  
ID 276594  
2025-06-13

| DESIGNED | BY       | DATE<br>(YYYY-MM-DD) |
|----------|----------|----------------------|
|          | DM       | 2024-07-15           |
| DRAWN    | BY       | DATE<br>(YYYY-MM-DD) |
|          | DM       | 2024-07-15           |
| CHECKED  | BY       | DATE<br>(YYYY-MM-DD) |
|          | KB       | 2024-07-15           |
| SCALE    | AS SHOWN |                      |

PROJECT

**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**

**OKOTOKS, AB**

SHEET TITLE

**STORM SEWER PLAN  
338 AVE  
STA 52+740 - 53+360**

| WORK ORDER NO.       | ACTIVITY NO. |
|----------------------|--------------|
|                      | 138875       |
| FILE NO.             | ENG DWG NO.  |
| 138875-C450.dwg      |              |
| SHEET ID.            | SHEET NO.    |
| <b>C454</b>          | <b>56</b>    |
| DATE<br>(YYYY-MM-DD) | PROFILE NO.  |
|                      |              |

DRAWN

ISC:

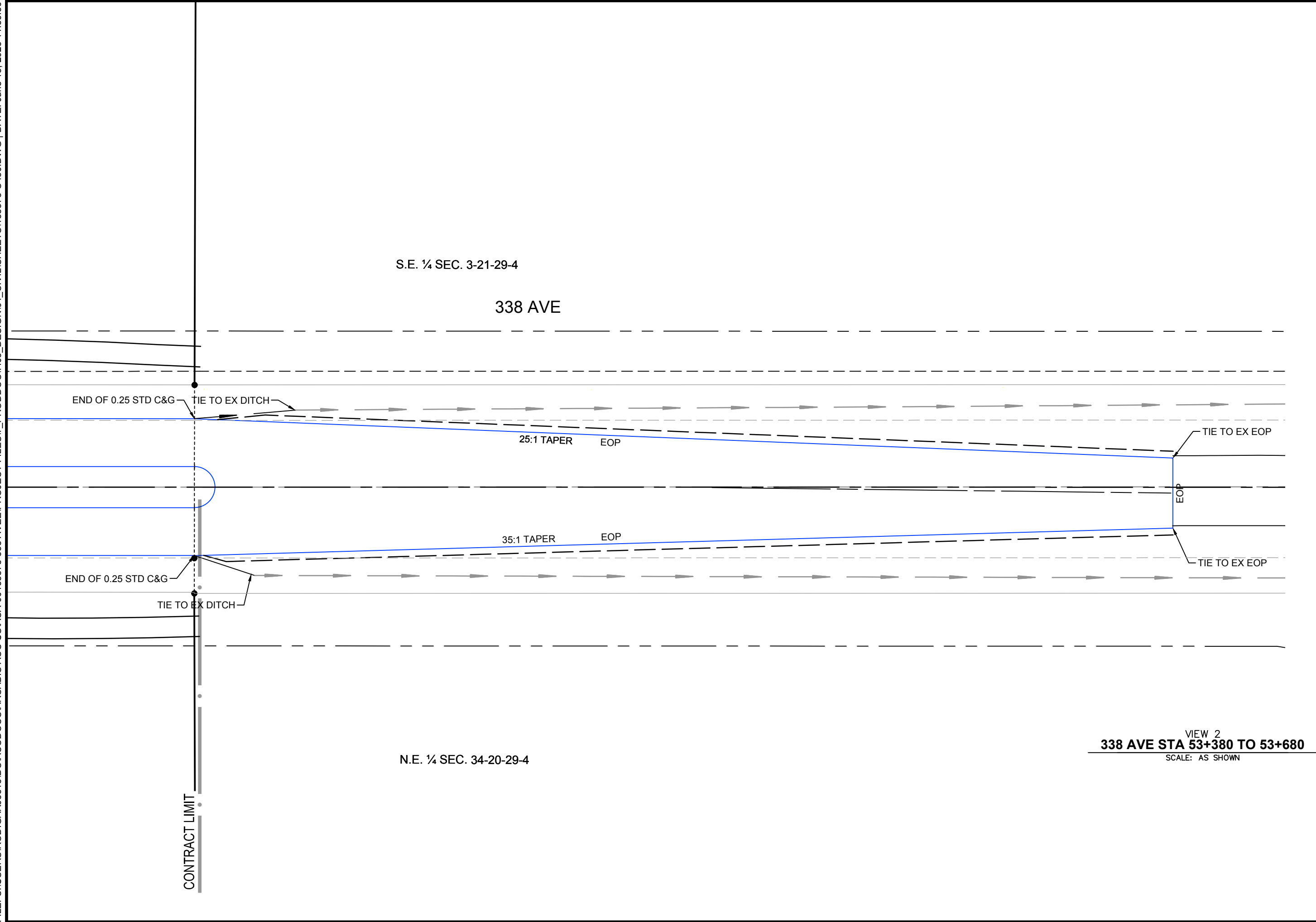
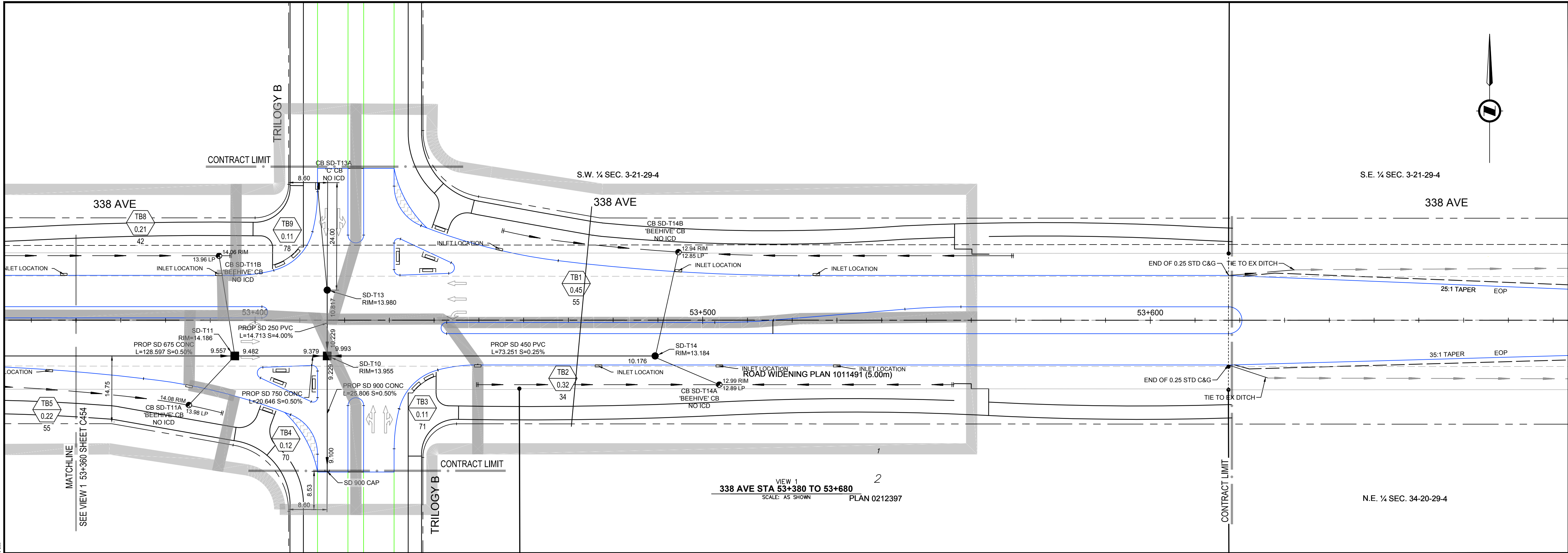
SHEET SIZE ANSI D

25 mm

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FILE: C:\USERS\ROD\GARJ\B3\BDO\ACCD\OS\ARCADIS\ACC US\ACA-001\B8875-338 AVE\PROJECT FILES\7\_PRODDOC\7.03\_DESIGN\04\_CIVIL\SHEETS\138875-C450.DWG | DATE: June 13, 2025 11:58:39 AM



### NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING G003 FOR SURFACE AND LINE DESCRIPTIONS.
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NOT FOR CONSTRUCTION

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Calgary AB T2R 1R9 Canada  
tel 403 270 5600  
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NAD 83  
COORDINATES

0 10 20 m  
1:500

| C                                                                                                                                                                                                                                          | ISSUED FOR 100% DESIGN        | 2025-06-13             | KB         | AH          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------|------------|-------------|
| B                                                                                                                                                                                                                                          | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30             | KB         | AH          |
| A                                                                                                                                                                                                                                          | ISSUED FOR 90% DESIGN REVIEW  | 2024-11-22             | KB         | AH          |
| NO.                                                                                                                                                                                                                                        | DESCRIPTION                   | DATE<br>(YYYY-MM-DD)   | BY         | APPD        |
| PERMIT                                                                                                                                                                                                                                     |                               | SEAL                   |            |             |
| PERMIT TO PRACTICE<br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE:<br>RM APEGA ID #: 80331<br>DATE: 2025-06-13<br>PERMIT NUMBER: P013381<br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |                               |                        |            |             |
| DESIGNED                                                                                                                                                                                                                                   | DM                            | DATE<br>(YYYY-MM-DD)   | 2024-07-15 |             |
| DRAWN                                                                                                                                                                                                                                      | DM                            | DATE<br>(YYYY-MM-DD)   | 2024-07-15 |             |
| CHECKED                                                                                                                                                                                                                                    | KB                            | DATE<br>(YYYY-MM-DD)   | 2024-07-15 |             |
| SCALE                                                                                                                                                                                                                                      |                               | AS SHOWN               |            |             |
|                                                                                                                                                                                                                                            |                               |                        |            |             |
| PROJECT<br>338 AVE ROAD IMPROVEMENTS<br>DETAILED DESIGN<br>OKOTOKS, AB                                                                                                                                                                     |                               |                        |            |             |
| SHEET TITLE<br>STORM SEWER PLAN<br>338 AVE<br>STA 53+360 - 53+780                                                                                                                                                                          |                               |                        |            |             |
| WORK ORDER NO.                                                                                                                                                                                                                             |                               | ACTIVITY NO.<br>138875 |            |             |
| FILE NO.<br>138875-C450.dwg                                                                                                                                                                                                                |                               | ENG DWG NO.            |            |             |
| SHEET ID.<br>C455                                                                                                                                                                                                                          |                               | SHEET NO.<br>57        |            |             |
| BY                                                                                                                                                                                                                                         |                               | DATE<br>(YYYY-MM-DD)   |            | PROFILE NO. |
| DRAWN                                                                                                                                                                                                                                      |                               |                        |            |             |

ISC: SHEET SIZE ANSI D 25 mm 0



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3. REFER TO LEGEND DRAWING 0003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
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8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.



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### COORDINATES

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| PERMIT                                                                                                             | SEAL                                                                                  |
| <p align="center"><b>PERMIT TO PRACTICE</b><br/> <b>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.</b></p>            |                                                                                       |
| RM SIGNATURE:                 |  |
| RM APEGA ID #: <b>80331</b>                                                                                        |                                                                                       |
| DATE: <b>2025-06-13</b>                                                                                            |                                                                                       |
| <b>PERMIT NUMBER: P013381</b><br>The Association of Professional Engineers<br>and Geoscientists of Alberta (APEGA) |                                                                                       |
| 2025-06-13                                                                                                         |                                                                                       |



SHEET TITLE

**OVERLAND DRAINAGE PLAN  
NORTHGATE DR  
STA 51+000 - NORTHRIDGE DR**

ISC: SHEET SIZE ANSI D 25 mm



1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING G003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (10% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND SHOULD NOT BE COMPLETELY OR ACCURATE. ADDITIONAL INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
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8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.



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COORDINATES

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <p><b>PERMIT</b></p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p style="text-align: center; font-weight: bold; font-size: 1.2em;">PERMIT TO PRACTICE</p> <p style="text-align: center;">ARCADIS PROFESSIONAL SERVICES (CANADA) INC.</p> <p>RM SIGNATURE: </p> <p>RM APEGA ID #: <b>80331</b></p> <p>DATE: <b>2025-06-13</b></p> <p style="font-weight: bold; font-size: 1.2em;">PERMIT NUMBER: P013381</p> <p style="font-size: 0.8em;">The Association of Professional Engineers and Geoscientists of Alberta (APEGA)</p> </div> | <p><b>SEAL</b></p> <div style="text-align: center;"> </div> <p style="text-align: right;">2025-06-13</p> |
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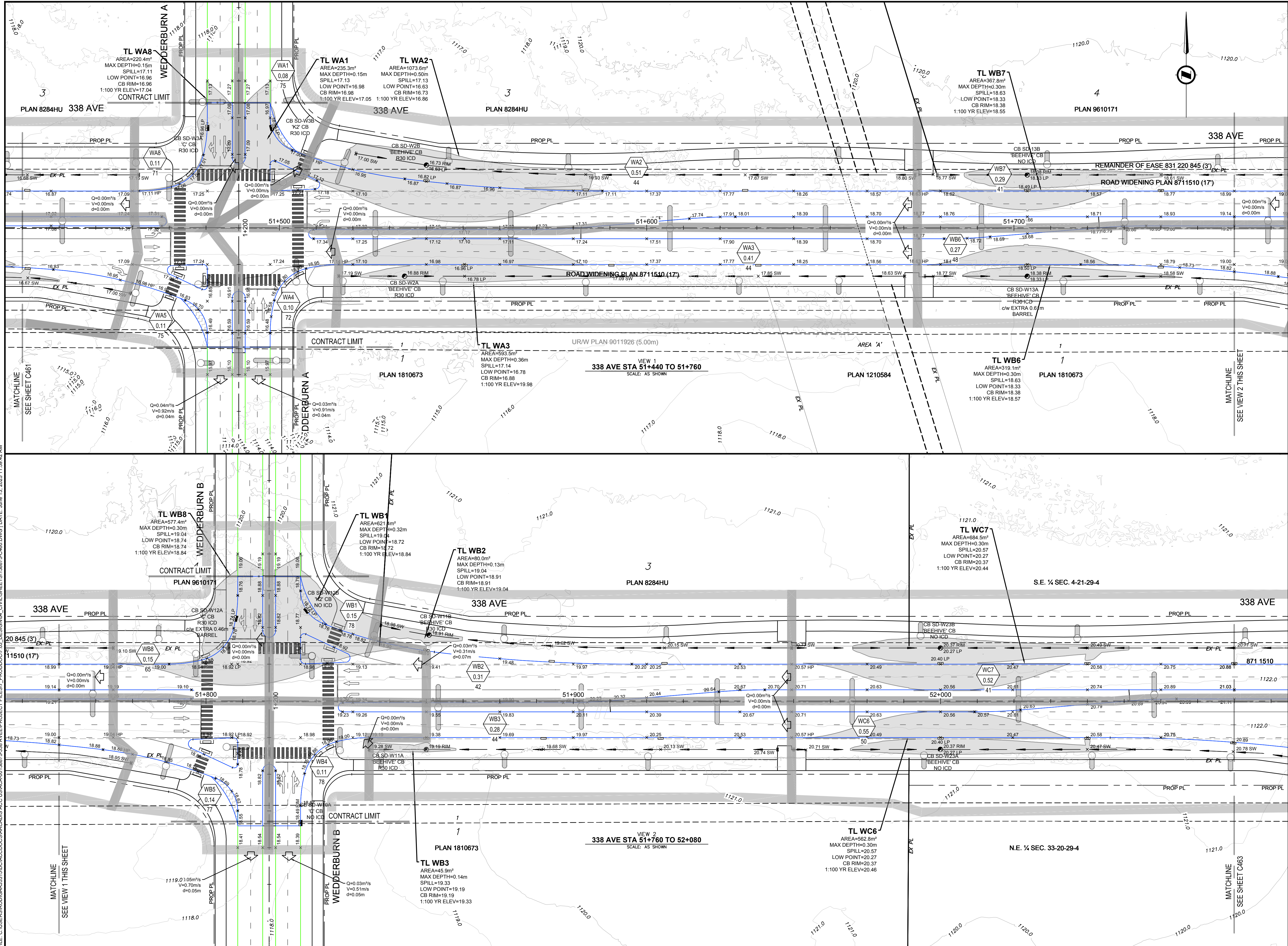
SHEET TITLE

**OVERLAND DRAINAGE PLAN**  
**338 AVE**  
**STA 51+200 - 51+440**

ISC: SHEET SIZE ANSI D 25 mm



FILE: C:\USERS\ROD\GARIB3\BDO\ACC\BDO\ARCADIS\ACC\USACA-001\8875-338 AVE\PROJECT FILES\7. PRODDCT\03. DESIGN\04. CIVIL\SHEETS\138875-C460.DWG | DATE: June 13, 2025 11:59:42 AM



## NOTES

- ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
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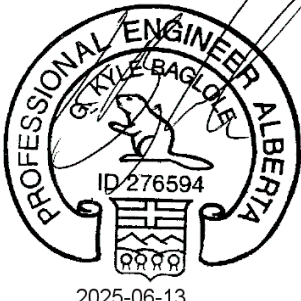
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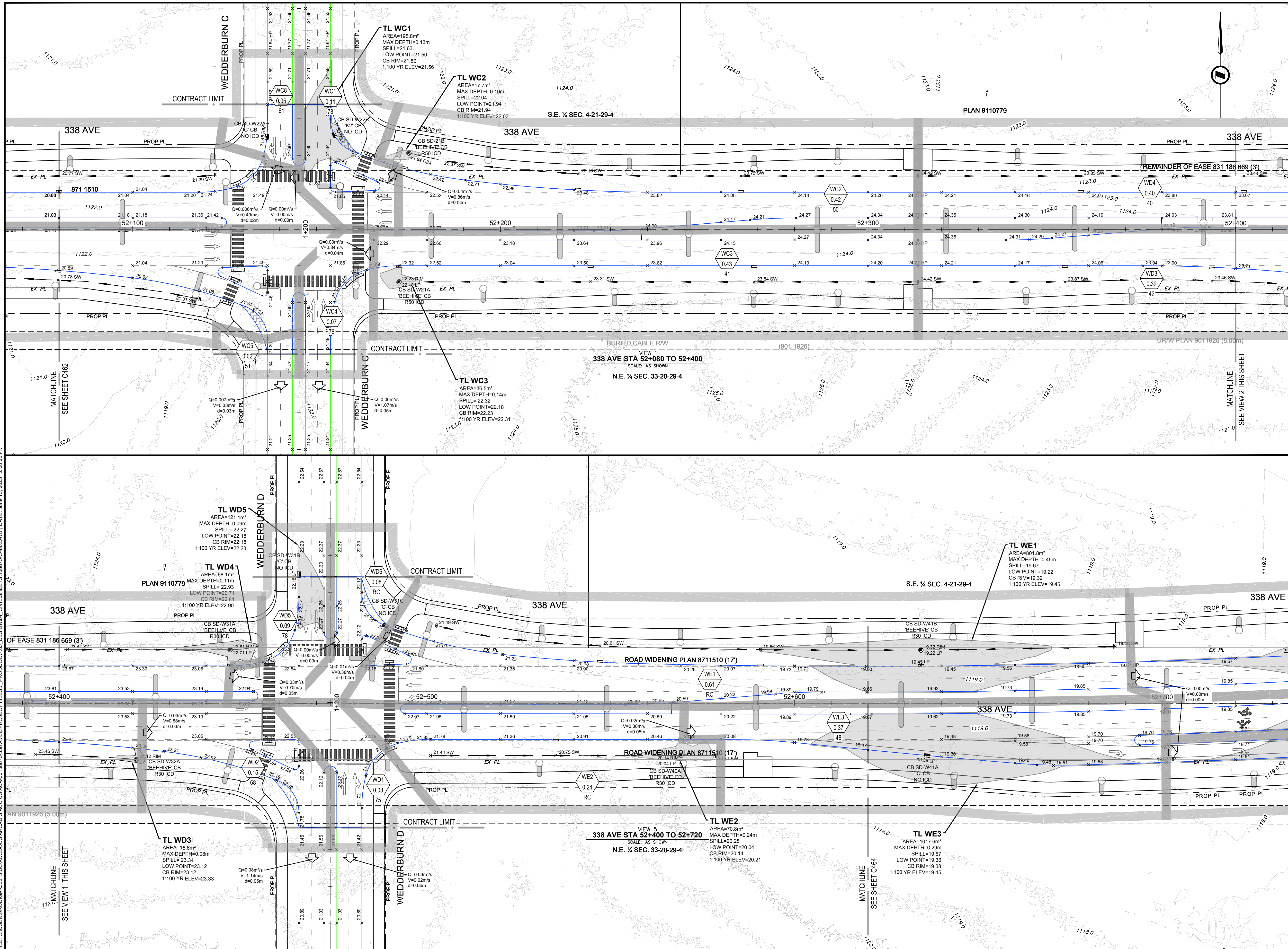
NAD 83  
COORDINATES

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| B                                                                                                                                                                                                                                                                                                                              | ISSUED FOR 100% DESIGN        |                      | 2025-06-13                                                                                       | KB          | AH   |
| A                                                                                                                                                                                                                                                                                                                              | ISSUED FOR 100% DESIGN REVIEW |                      | 2025-01-30                                                                                       | KB          | AH   |
| NO.                                                                                                                                                                                                                                                                                                                            | DESCRIPTION                   |                      | DATE<br>(YYYY-MM-DD)                                                                             | BY          | APPD |
| PERMIT                                                                                                                                                                                                                                                                                                                         |                               |                      | SEAL                                                                                             |             |      |
| <div><div>PERMIT TO PRACTICE</div><div>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.</div><div>RM SIGNATURE: _____</div><div>RM APEGA ID # <u>80331</u></div><div>DATE: <u>2025-06-13</u></div><div>PERMIT NUMBER: P013381</div><div>The Association of Professional Engineers and Geoscientists of Alberta (APEGGA)</div></div> |                               |                      | <div></div> |             |      |
|                                                                                                                                                                                                                                                                                                                                |                               | BY                   | DATE<br>(YYYY-MM-DD)                                                                             |             |      |
| DESIGNED                                                                                                                                                                                                                                                                                                                       | DM                            |                      | 2024-12-19                                                                                       |             |      |
| DRAWN                                                                                                                                                                                                                                                                                                                          | DM                            |                      | 2024-12-19                                                                                       |             |      |
| CHECKED                                                                                                                                                                                                                                                                                                                        | KB                            |                      | 2024-12-19                                                                                       |             |      |
| SCALE                                                                                                                                                                                                                                                                                                                          |                               |                      |                                                                                                  |             |      |
| 1:500                                                                                                                                                                                                                                     |                               |                      |                                                                                                  |             |      |
|                                                                                                                                                                                                                                           |                               |                      |                                                                                                  |             |      |
| PROJECT                                                                                                                                                                                                                                                                                                                        |                               |                      |                                                                                                  |             |      |
| 338 AVE ROAD IMPROVEMENTS<br>DETAILED DESIGN<br><br>OKOTOKS, AB                                                                                                                                                                                                                                                                |                               |                      |                                                                                                  |             |      |
| SHEET TITLE                                                                                                                                                                                                                                                                                                                    |                               |                      |                                                                                                  |             |      |
| OVERLAND DRAINAGE PLAN<br>338 AVE<br>STA 51+440 - 52+080                                                                                                                                                                                                                                                                       |                               |                      |                                                                                                  |             |      |
| WORK ORDER NO.                                                                                                                                                                                                                                                                                                                 |                               |                      | ACTIVITY NO.                                                                                     |             |      |
|                                                                                                                                                                                                                                                                                                                                |                               |                      | 138875                                                                                           |             |      |
| FILE NO.                                                                                                                                                                                                                                                                                                                       |                               |                      | ENG DWG NO.                                                                                      |             |      |
| 138875-C460.dwg                                                                                                                                                                                                                                                                                                                |                               |                      |                                                                                                  |             |      |
| SHEET ID.                                                                                                                                                                                                                                                                                                                      |                               |                      | SHEET NO.                                                                                        |             |      |
| C462                                                                                                                                                                                                                                                                                                                           |                               |                      | 60                                                                                               |             |      |
|                                                                                                                                                                                                                                                                                                                                | BY                            | DATE<br>(YYYY-MM-DD) |                                                                                                  | PROFILE NO. |      |
| DRAWN                                                                                                                                                                                                                                                                                                                          |                               |                      |                                                                                                  |             |      |

ISC: SHEET SIZE ANSI D 25 mm



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### NOTES

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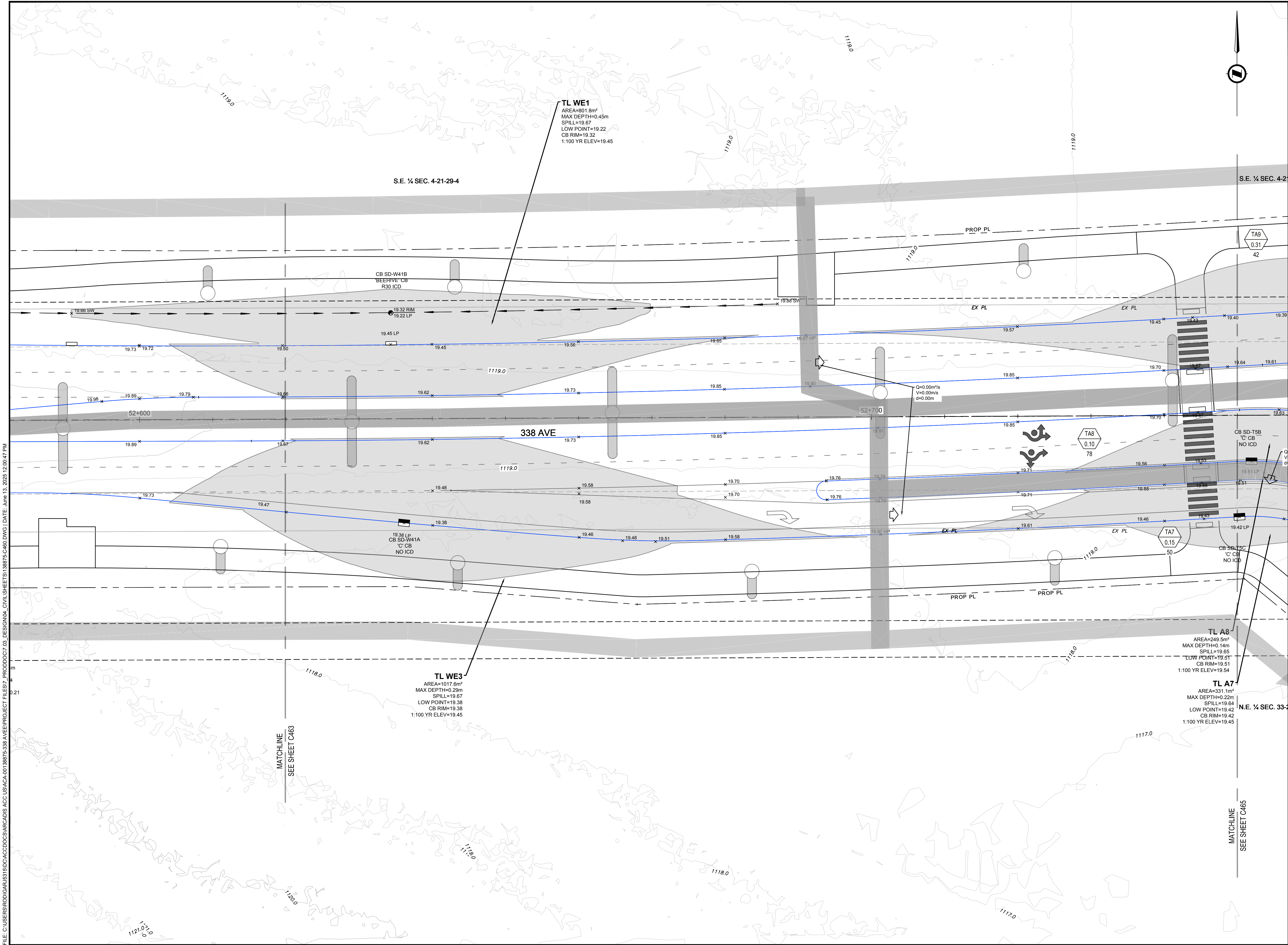
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NAD 83  
COORDINATES

|                                                                                |                                                             |            |              |        |             |
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| B                                                                              | ISSUED FOR 100% DESIGN                                      | 2025-06-13 | KB           | AH     |             |
| A                                                                              | ISSUED FOR 100% DESIGN REVIEW                               | 2025-01-30 | KB           | AH     |             |
| NO.                                                                            | DESCRIPTION                                                 | DATE       | BY           | APPD   |             |
| PERMIT                                                                         | PERMIT TO PRACTICE                                          |            | SEAL         |        |             |
| ARCADIS PROFESSIONAL SERVICES (CANADA) INC.                                    |                                                             |            |              |        |             |
| RM SIGNATURE: _____                                                            |                                                             |            |              |        |             |
| RM APEGA ID #: 80331                                                           |                                                             |            |              |        |             |
| DATE: 2025-06-13                                                               |                                                             |            |              |        |             |
| PERMIT NUMBER: P013381                                                         |                                                             |            |              |        |             |
| The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |                                                             |            |              |        |             |
| 2025-06-13                                                                     |                                                             |            |              |        |             |
| DESIGNED                                                                       | DM                                                          | DATE       | 2024-12-19   |        |             |
| DRAWN                                                                          | DM                                                          | DATE       | 2024-12-19   |        |             |
| CHECKED                                                                        | KB                                                          | DATE       | 2024-12-19   |        |             |
| SCALE                                                                          | 1:500                                                       |            |              |        |             |
|                                                                                |                                                             |            |              |        |             |
| PROJECT                                                                        | 338 AVE ROAD IMPROVEMENTS<br>DETAILED DESIGN<br>OKOTAKS, AB |            |              |        |             |
| SHEET TITLE                                                                    |                                                             |            |              |        |             |
| OVERLAND DRAINAGE PLAN<br>338 AVE<br>STA 52+080 - 52+720                       |                                                             |            |              |        |             |
| WORK ORDER NO.                                                                 | 138875                                                      |            | ACTIVITY NO. | 138875 |             |
| FILE NO.                                                                       | 138875-C460.dwg                                             |            | ENG DWG NO.  |        |             |
| SHEET ID.                                                                      | C463                                                        |            | SHEET NO.    | 61     |             |
| DRAWN                                                                          | BY                                                          | DATE       | DATE         | DATE   | PROFILE NO. |
| ISC:                                                                           | SHEET SIZE ANSI D 25 mm                                     |            |              |        |             |



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## NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
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NAD 83  
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| B   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| A   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |

|                                                                                                                                                                                                                                                                                       |          |
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| PERMIT<br><b>PERMIT TO PRACTICE</b><br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE: _____<br>RM APEGA ID # <b>80331</b><br>DATE: <b>2025-06-13</b><br><b>PERMIT NUMBER: P013381</b><br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) | SEAL<br> |
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|          |    |                      |
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|          | BY | DATE<br>(YYYY-MM-DD) |
| DESIGNED | DM | 2024-12-19           |
| DRAWN    | DM | 2024-12-19           |
| CHECKED  | KB | 2024-12-19           |
| SCALE    |    |                      |

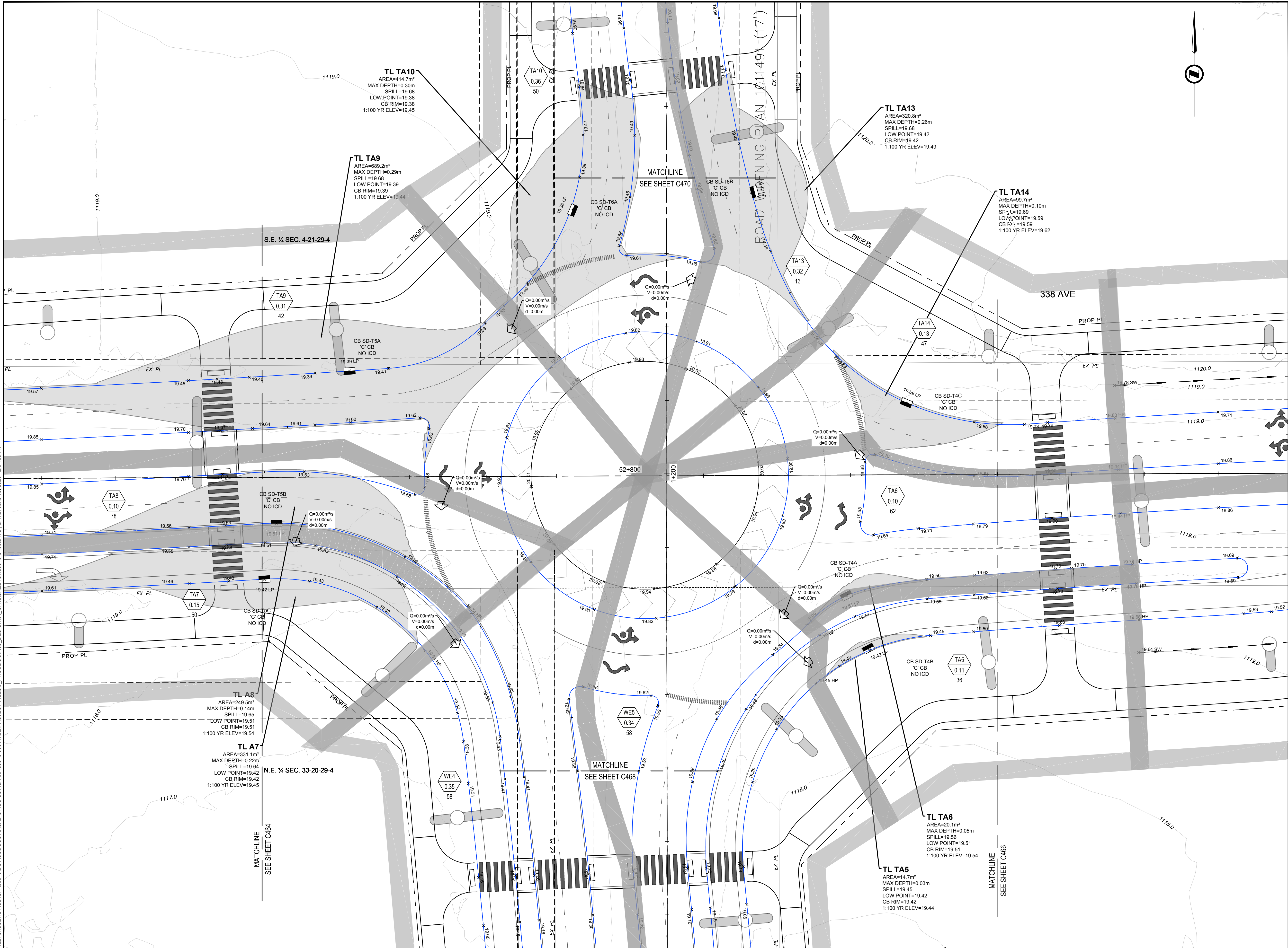


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| PROJECT<br><b>338 AVE ROAD IMPROVEMENTS<br/>DETAILED DESIGN</b><br><b>OKOTAKS, AB</b>  |                               |                      |
| SHEET TITLE<br><b>OVERLAND DRAINAGE PLAN<br/>ROUNDABOUT - 1 OF 5<br/>WEST OF 32 ST</b> |                               |                      |
| WORK ORDER NO.                                                                         | ACTIVITY NO.<br><b>138875</b> |                      |
| FILE NO.<br><b>138875-C460.dwg</b>                                                     | ENG DWG NO.                   |                      |
| SHEET ID.<br><b>C464</b>                                                               | SHEET NO.<br><b>62</b>        |                      |
| DRAWN                                                                                  | BY                            | DATE<br>(YYYY-MM-DD) |
| ISC:                                                                                   |                               | PROFILE NO.          |

SHEET SIZE ANSI D 25 mm



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### NOTES

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| A   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |

PERMIT

**PERMIT TO PRACTICE**  
ARCADIS PROFESSIONAL SERVICES (CANADA) INC.  
RM SIGNATURE:   
RM APEGA ID #: **80331**  
DATE: **2025-06-13**  
**PERMIT NUMBER: P013381**  
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

SEAL

2025-06-13

| DESIGNED | BY | DATE<br>(YYYY-MM-DD) |
|----------|----|----------------------|
|          | DM | 2024-12-19           |
| DRAWN    | BY | DATE<br>(YYYY-MM-DD) |
|          | DM | 2024-12-19           |
| CHECKED  | BY | DATE<br>(YYYY-MM-DD) |
|          | KB | 2024-12-19           |

SCALE

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PROJECT

**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**

**OKOTAKS, AB**

SHEET TITLE

**OVERLAND DRAINAGE PLAN  
ROUNDBOUT - 2 OF 5  
338 AVE AND 32 ST**

| WORK ORDER NO.       | ACTIVITY NO. |
|----------------------|--------------|
|                      | 138875       |
| FILE NO.             | ENG DWG NO.  |
| 138875-C460.dwg      |              |
| SHEET ID.            | SHEET NO.    |
| <b>C465</b>          | <b>63</b>    |
| DATE<br>(YYYY-MM-DD) | PROFILE NO.  |
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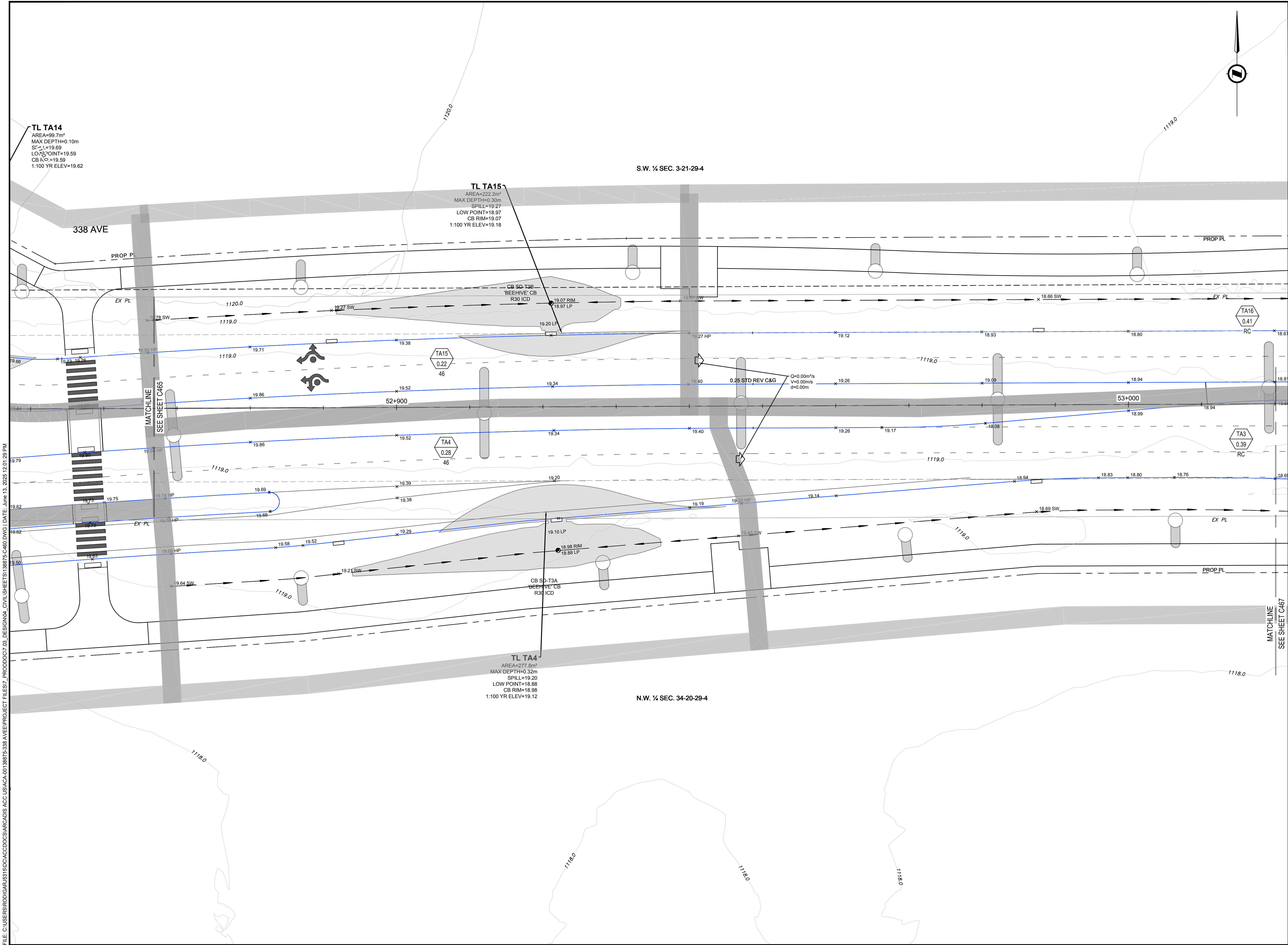
ISC:

SHEET SIZE ANSI D

25 mm



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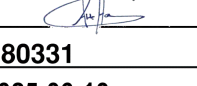
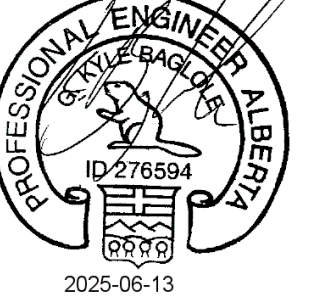


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NAD 83  
COORDINATES

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|     |                               |                      |    |      |
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| B   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| A   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
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| PERMIT<br><b>PERMIT TO PRACTICE</b><br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE: <br>RM APEGA ID #: <b>80331</b><br>DATE: <b>2025-06-13</b><br><b>PERMIT NUMBER: P013381</b><br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) | SEAL<br> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|

|          |    |                      |
|----------|----|----------------------|
| DESIGNED | DM | DATE<br>(YYYY-MM-DD) |
| DRAWN    | DM | 2024-12-19           |
| CHECKED  | KB | 2024-12-19           |

SCALE 0 5 10 m  
1:250



PROJECT  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTOKS, AB**

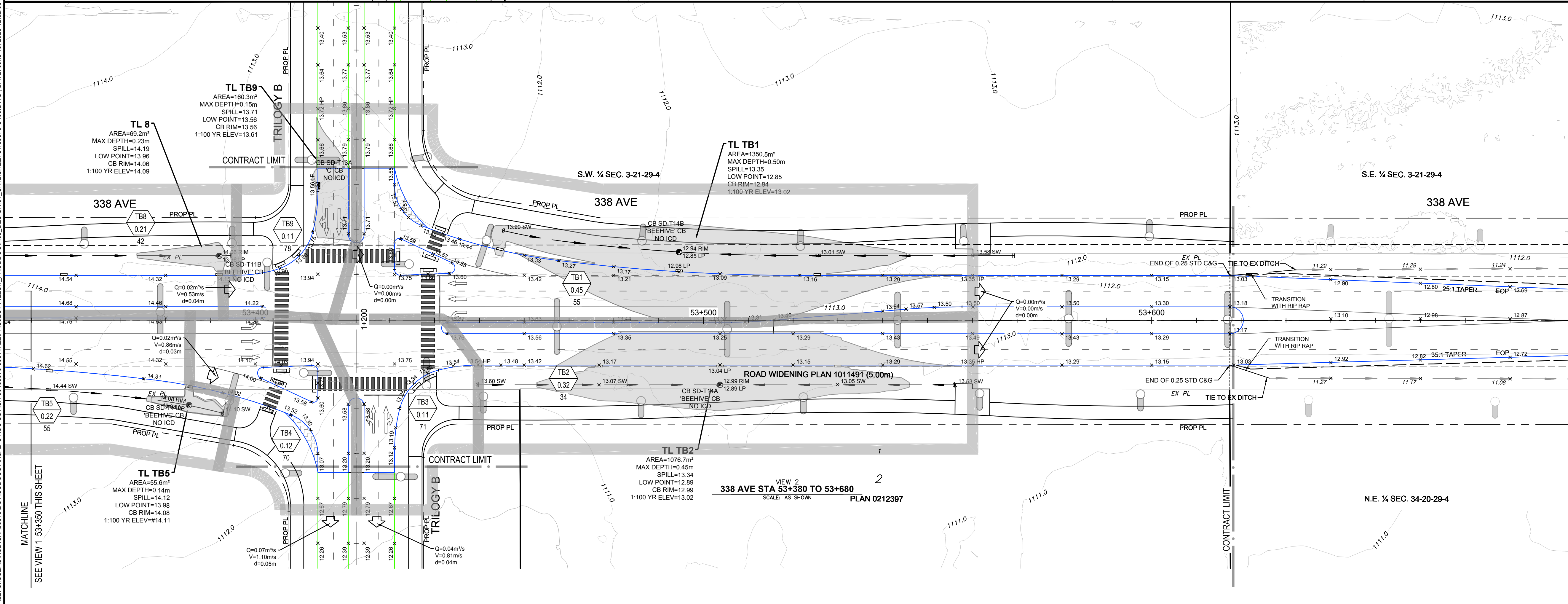
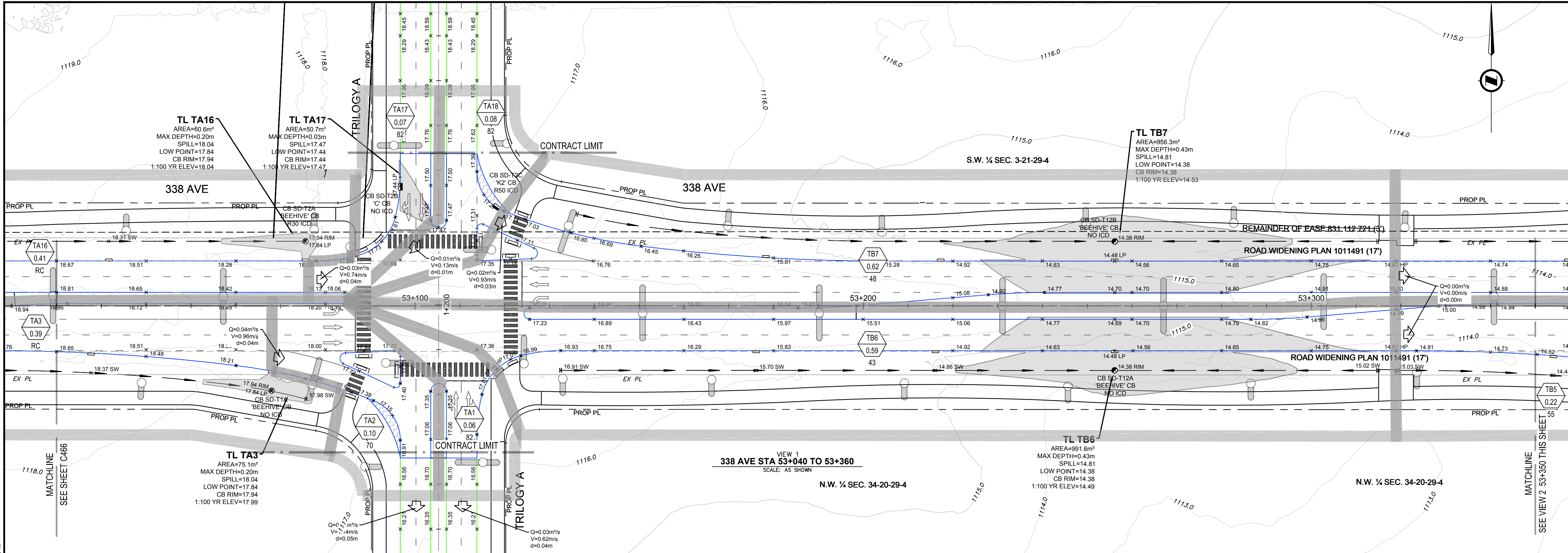
SHEET TITLE  
**OVERLAND DRAINAGE PLAN  
ROUNDABOUT - 3 OF 5  
EAST OF 32 ST**

|                             |                        |
|-----------------------------|------------------------|
| WORK ORDER NO.              | ACTIVITY NO.           |
| FILE NO.<br>138875-C460.dwg | ENG DWG NO.            |
| SHEET ID.<br><b>C466</b>    | SHEET NO.<br><b>64</b> |
| DATE<br>(YYYY-MM-DD)        | PROFILE NO.            |
| BY                          |                        |
| DRAWN                       |                        |

ISC: SHEET SIZE ANSI D 25 mm



FILE: C:\USERS\ROD\GARIB31\BDO\ACCD\OS\ARCADIS\ACC USACA-001\8875-338 AVE\PROJECT FILES\PRODD07.03\_DESIGN\04\_CIVIL\SHEETS\138875-C460.DWG | DATE: June 13, 2025 12:02:06 PM



## NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING G003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.

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NAD 83  
COORDINATES

|                                                                                                                                                                                                                                                                                                             |                                                                 |                            |                      |             |  |
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| B                                                                                                                                                                                                                                                                                                           | ISSUED FOR 100% DESIGN                                          | 2025-06-13                 | KB                   | AH          |  |
| A                                                                                                                                                                                                                                                                                                           | ISSUED FOR 100% DESIGN REVIEW                                   | 2025-01-30                 | KB                   | AH          |  |
| NO.                                                                                                                                                                                                                                                                                                         | DESCRIPTION                                                     | DATE<br>(YYYY-MM-DD)       | BY                   | APPD        |  |
| PERMIT                                                                                                                                                                                                                                                                                                      |                                                                 | SEAL                       |                      |             |  |
| <div><div>PERMIT TO PRACTICE</div><div>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.</div><div>RM SIGNATURE: </div><div>RM APEGA ID #: 80331</div><div>DATE: 2025-06-13</div><div>PERMIT NUMBER: P013381</div><div>The Association of Professional Engineers and Geoscientists of Alberta (APEGA)</div></div> |                                                                 | <div></div>                |                      |             |  |
|                                                                                                                                                                                                                                                                                                             |                                                                 | BY                         | DATE<br>(YYYY-MM-DD) |             |  |
| DESIGNED                                                                                                                                                                                                                                                                                                    | DM                                                              |                            | 2024-12-19           |             |  |
| DRAWN                                                                                                                                                                                                                                                                                                       | DM                                                              |                            | 2024-12-19           |             |  |
| CHECKED                                                                                                                                                                                                                                                                                                     | KB                                                              |                            | 2024-12-19           |             |  |
| SCALE                                                                                                                                                                                                                                                                                                       | 1:500                                                           |                            |                      |             |  |
| <div></div>                                                                                                                                                                                                                                                                                                 |                                                                 |                            |                      |             |  |
| PROJECT                                                                                                                                                                                                                                                                                                     | 338 AVE ROAD IMPROVEMENTS<br>DETAILED DESIGN<br><br>OKOTOKS, AB |                            |                      |             |  |
| SHEET TITLE                                                                                                                                                                                                                                                                                                 | OVERLAND DRAINAGE PLAN<br>338 AVE<br>STA 53+040 - 53+680        |                            |                      |             |  |
| WORK ORDER NO.                                                                                                                                                                                                                                                                                              |                                                                 | ACTIVITY NO.<br><br>138875 |                      |             |  |
| FILE NO.<br><br>138875-C460.dwg                                                                                                                                                                                                                                                                             |                                                                 | ENG DWG NO.                |                      |             |  |
| SHEET ID.<br><br>C467                                                                                                                                                                                                                                                                                       |                                                                 | SHEET NO.<br><br>65        |                      |             |  |
|                                                                                                                                                                                                                                                                                                             | BY                                                              | DATE<br>(YYYY-MM-DD)       |                      | PROFILE NO. |  |
| DRAWN                                                                                                                                                                                                                                                                                                       |                                                                 |                            |                      |             |  |



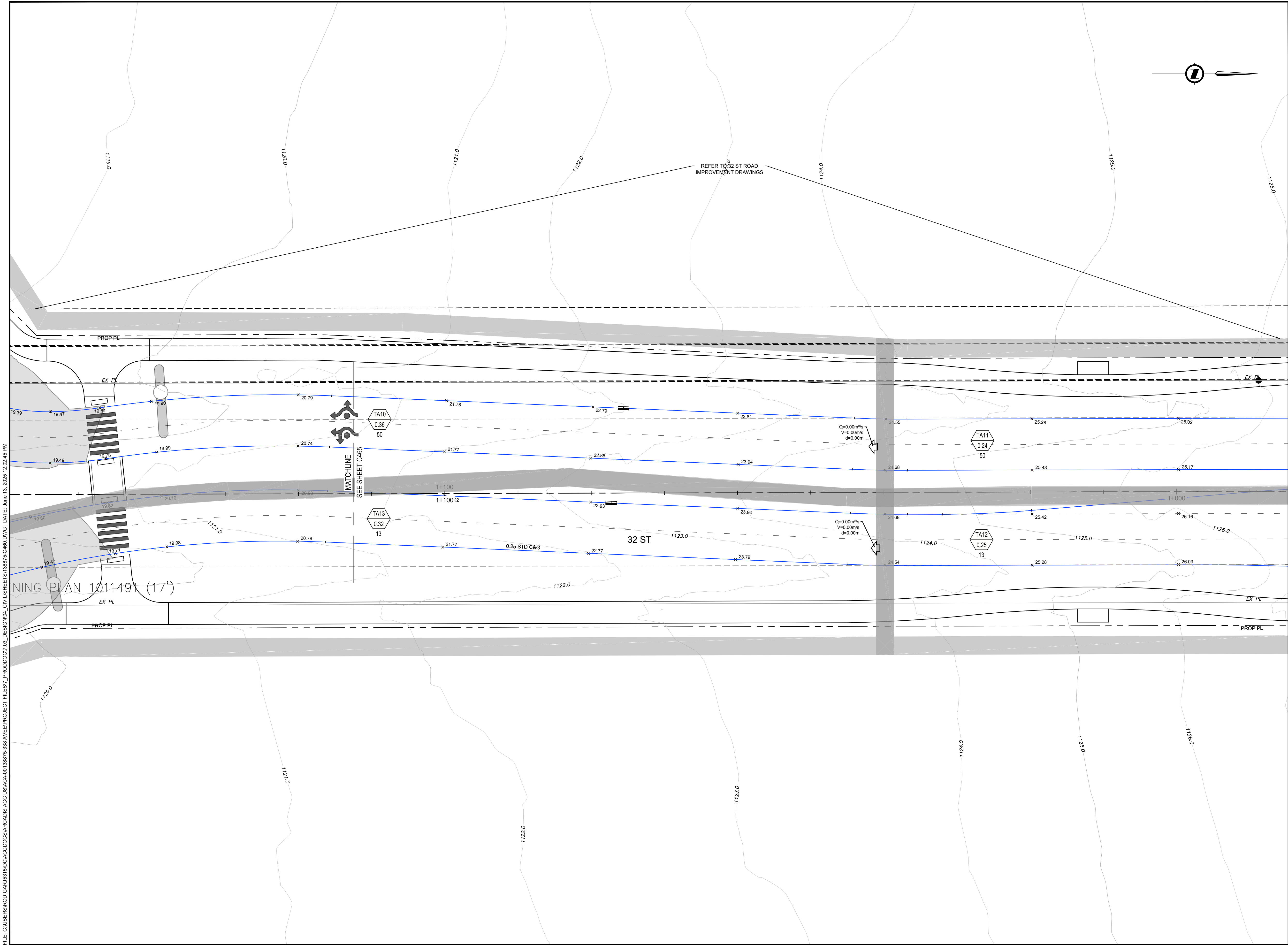
1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
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6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.



ISC: SHEET SIZE ANSI D 25 mm



FILE: C:\USERS\ROD\GARJ\B1BDO\ACCDOS\ARCADIS\ACC US\ACA-0018875-338 AVE\PROJECT FILES\7\_PRODDOC\7.03\_DESIGN\04\_CIVIL\SHEETS\18875-C460.DWG | DATE: June 13, 2025 12:02:45 PM



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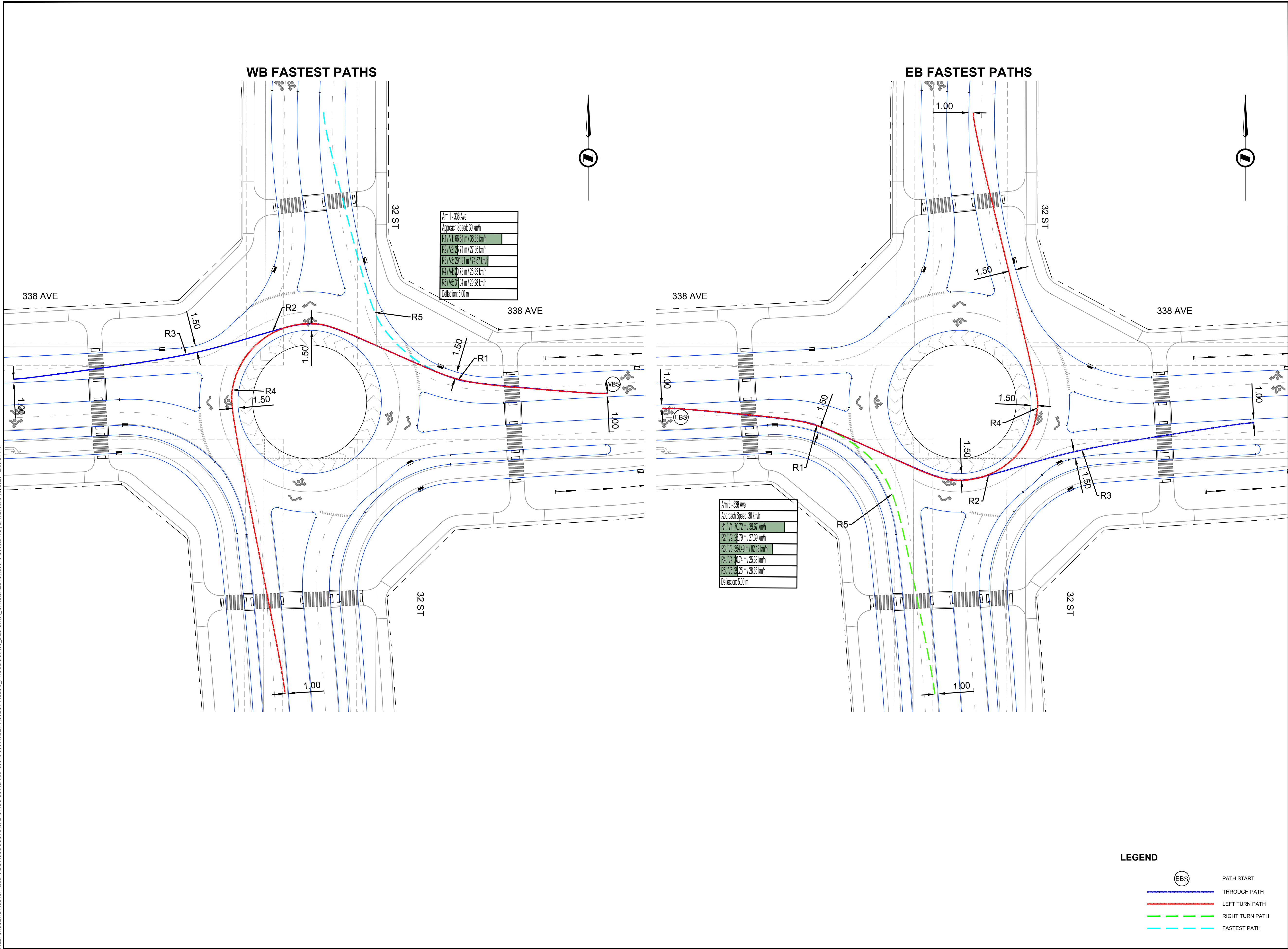
NAD 83  
COORDINATES

|                                                                                  |                               |              |      |             |  |
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| B                                                                                | ISSUED FOR 100% DESIGN        | 2025-06-13   | KB   | AH          |  |
| A                                                                                | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30   | KB   | AH          |  |
| NO.                                                                              | DESCRIPTION                   | DATE         | BY   | APPD        |  |
| PERMIT                                                                           |                               | DATE         |      | SEAL        |  |
| PERMIT TO PRACTICE                                                               |                               | DATE         |      | SEAL        |  |
| ARCADIS PROFESSIONAL SERVICES (CANADA) INC.                                      |                               | DATE         |      | SEAL        |  |
| RM SIGNATURE:                                                                    |                               | DATE         |      | SEAL        |  |
| RM APEGA ID # 80331                                                              |                               | DATE         |      | SEAL        |  |
| DATE: 2025-06-13                                                                 |                               | DATE         |      | SEAL        |  |
| PERMIT NUMBER: P013381                                                           |                               | DATE         |      | SEAL        |  |
| The Association of Professional Engineers and Geoscientists of Alberta (APEGA)   |                               | DATE         |      | SEAL        |  |
| DESIGNED                                                                         | DM                            | DATE         | DATE |             |  |
| DRAWN                                                                            | DM                            | DATE         | DATE |             |  |
| CHECKED                                                                          | KB                            | DATE         | DATE |             |  |
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|                                                                                  |                               |              |      |             |  |
| PROJECT<br>338 AVE ROAD IMPROVEMENTS<br>DETAILED DESIGN<br>OKOTAKS, AB           |                               |              |      |             |  |
| SHEET TITLE<br>OVERLAND DRAINAGE PLAN<br>ROUNDABOUT - 5 OF 5<br>NORTH OF 338 AVE |                               |              |      |             |  |
| WORK ORDER NO.                                                                   |                               | ACTIVITY NO. |      |             |  |
| 138875-C460.dwg                                                                  |                               | 138875       |      |             |  |
| SHEET ID.                                                                        |                               | SHEET NO.    |      |             |  |
| C469                                                                             |                               | 67           |      |             |  |
| BY                                                                               |                               | DATE         |      | PROFILE NO. |  |
| DRAWN                                                                            |                               | DATE         |      | PROFILE NO. |  |

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### NOTES

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NOTE: REFER TO THE LANDSCAPE DRAWINGS FOR ALL DETAILS WITHIN THE BOULEVARD AND MEDIANS

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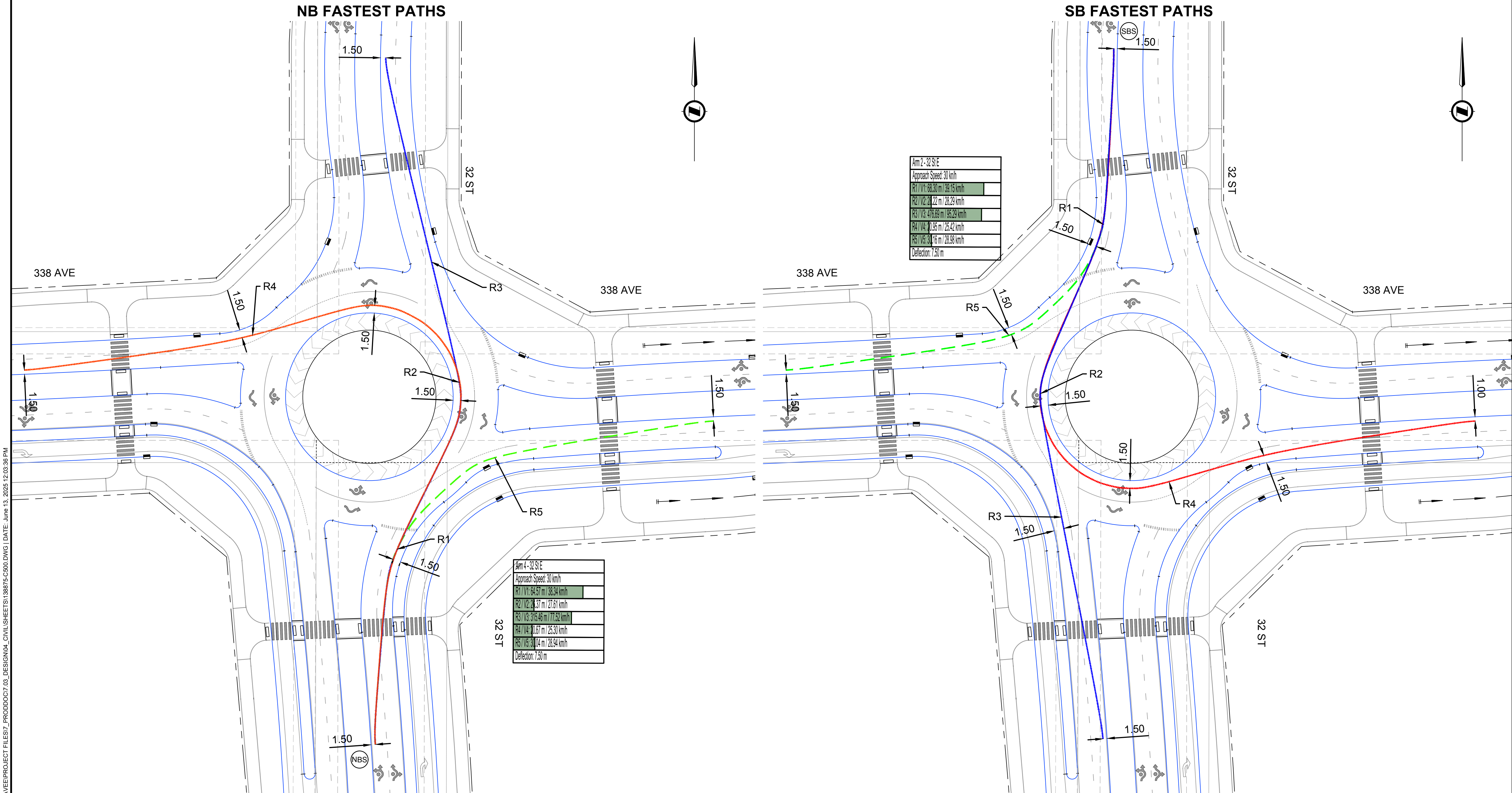
NAD 83  
COORDINATES

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| B                                                                                                                                                                                                                                                                      | ISSUED FOR 100% DESIGN        | 2025-06-13                    | KB | AH          |
| A                                                                                                                                                                                                                                                                      | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30                    | KB | AH          |
| NO.                                                                                                                                                                                                                                                                    | DESCRIPTION                   | DATE<br>(YYYY-MM-DD)          | BY | APPD        |
| PERMIT                                                                                                                                                                                                                                                                 |                               | SEAL                          |    |             |
| <b>PERMIT TO PRACTICE</b><br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE:<br>RM APEGA ID #: <b>80331</b><br>DATE: <b>2025-06-13</b><br><b>PERMIT NUMBER: P013381</b><br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |                               |                               |    |             |
|                                                                                                                                                                                                                                                                        | BY                            | DATE<br>(YYYY-MM-DD)          |    |             |
| DESIGNED                                                                                                                                                                                                                                                               | DM                            | 2024-12-12                    |    |             |
| DRAWN                                                                                                                                                                                                                                                                  | DM                            | 2024-12-12                    |    |             |
| CHECKED                                                                                                                                                                                                                                                                | KB                            | 2024-12-12                    |    |             |
| SCALE<br>0 10 20 m<br>1:500                                                                                                                                                                                                                                            |                               |                               |    |             |
|                                                                                                                                                                                                                                                                        |                               |                               |    |             |
| PROJECT<br><b>338 AVE ROAD IMPROVEMENTS<br/>DETAILED DESIGN</b><br><b>OKOTAKS, AB</b>                                                                                                                                                                                  |                               |                               |    |             |
| SHEET TITLE<br><b>ROUNDBOUT FASTEST PATH<br/>(EB &amp; WB PATHS)</b>                                                                                                                                                                                                   |                               |                               |    |             |
| WORK ORDER NO.                                                                                                                                                                                                                                                         |                               | ACTIVITY NO.<br><b>138875</b> |    |             |
| FILE NO.<br><b>138875-C500.dwg</b>                                                                                                                                                                                                                                     |                               | ENG DWG NO.                   |    |             |
| SHEET ID.<br><b>C500</b>                                                                                                                                                                                                                                               |                               | SHEET NO.<br><b>68</b>        |    |             |
|                                                                                                                                                                                                                                                                        | BY                            | DATE<br>(YYYY-MM-DD)          |    | PROFILE NO. |
| DRAWN                                                                                                                                                                                                                                                                  |                               |                               |    |             |

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### NOTES

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- REFER TO LEGEND DRAWING 0003 FOR SURFACE AND LINE DESCRIPTIONS.
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NAD 83  
COORDINATES

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| A                                                                                                                                                                                                                                          | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30             | KB | AH          |
| NO.                                                                                                                                                                                                                                        | DESCRIPTION                   | DATE<br>(YYYY-MM-DD)   | BY | APPD        |
| PERMIT                                                                                                                                                                                                                                     |                               | SEAL                   |    |             |
| PERMIT TO PRACTICE<br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE:<br>RM APEGA ID #: 80331<br>DATE: 2025-06-13<br>PERMIT NUMBER: P013381<br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |                               | <br>2025-06-13         |    |             |
|                                                                                                                                                                                                                                            | BY                            | DATE<br>(YYYY-MM-DD)   |    |             |
| DESIGNED                                                                                                                                                                                                                                   | DM                            | 2024-12-12             |    |             |
| DRAWN                                                                                                                                                                                                                                      | DM                            | 2024-12-12             |    |             |
| CHECKED                                                                                                                                                                                                                                    | KB                            | 2024-12-12             |    |             |
| SCALE<br>0 10 20 m<br>1:500                                                                                                                                                                                                                |                               |                        |    |             |
|                                                                                                                                                                                                                                            |                               |                        |    |             |
| PROJECT<br>338 AVE ROAD IMPROVEMENTS<br>DETAILED DESIGN<br>OKOTOKS, AB                                                                                                                                                                     |                               |                        |    |             |
| SHEET TITLE<br>ROUNDAABOUT FASTEST PATH<br>(NB & SB PATHS)                                                                                                                                                                                 |                               |                        |    |             |
| WORK ORDER NO.                                                                                                                                                                                                                             |                               | ACTIVITY NO.<br>138875 |    |             |
| FILE NO.<br>138875-C500.dwg                                                                                                                                                                                                                |                               | ENG DWG NO.            |    |             |
| SHEET ID.<br>C501                                                                                                                                                                                                                          |                               | SHEET NO.<br>69        |    |             |
|                                                                                                                                                                                                                                            | BY                            | DATE<br>(YYYY-MM-DD)   |    | PROFILE NO. |
| DRAWN                                                                                                                                                                                                                                      |                               |                        |    |             |

ISC: SHEET SIZE ANSI D 25 mm



Stopping Sight Distance

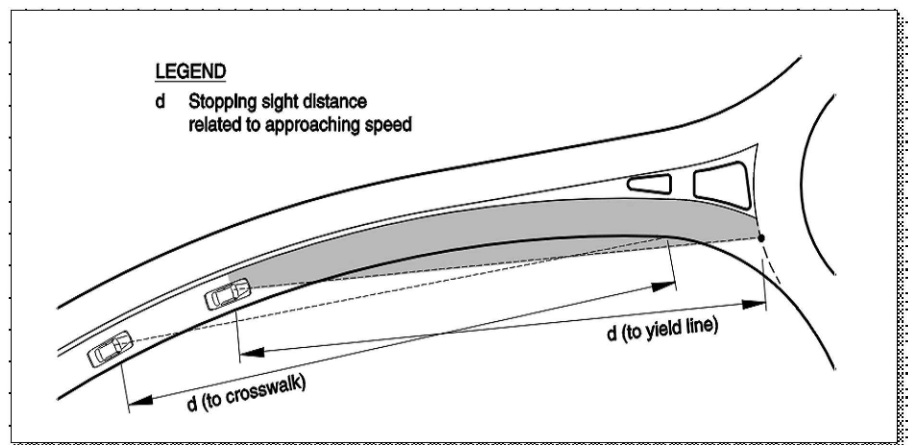
$d = 0.278 Vt + 0.039 V^2/a$

d =stopping sight distance, m  
t =perception-brake reaction time, assumed to be 2.5s  
V=initial speed, km/h (posted Speed to 10 km/h)  
a =driver deceleration, assumed to be 3.4m/s

1. Approach Sight Distance

V=design speed of approach roadway = 40 km/h

$d_m = (0.278 \cdot 2.5 \cdot 60) + 0.039 \cdot 60^2 / 3.4 = 33.56 \text{ m}$

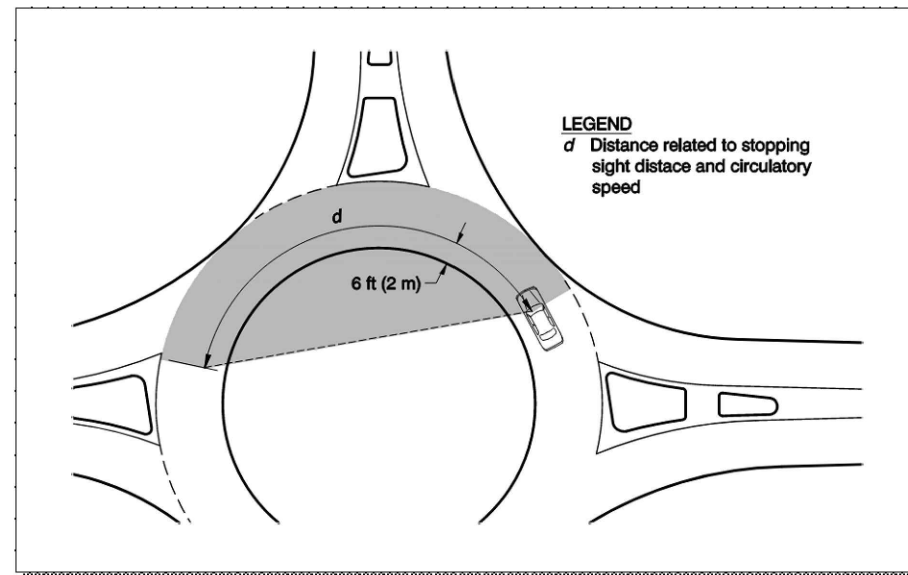


2. SSD on Crulatory Roadway

V=circulatory, km/h - based on speed-radius relationship = 40 km/h

R=Central Island Radius (19.5m) + 2.0m = 21.5 m

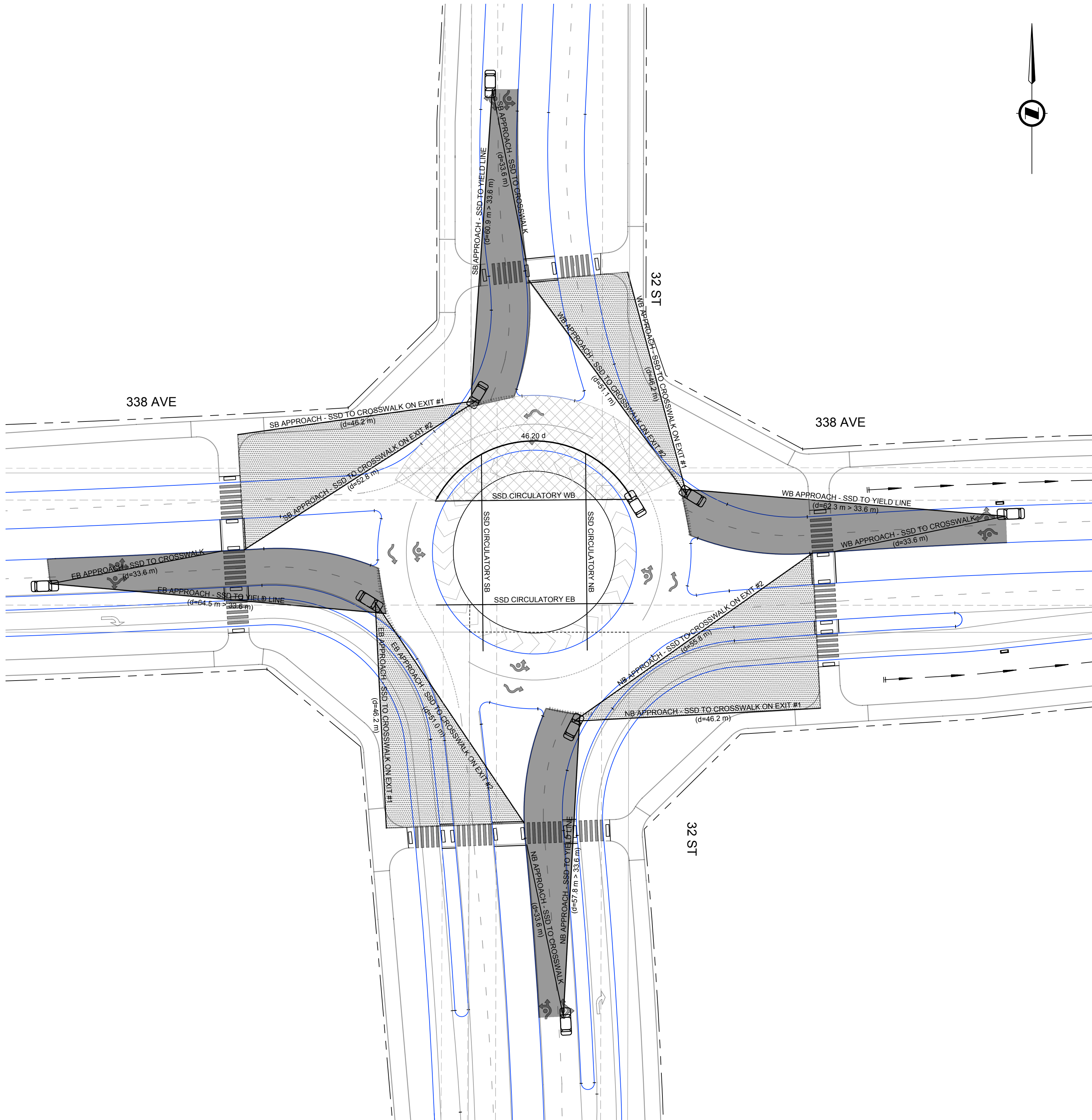
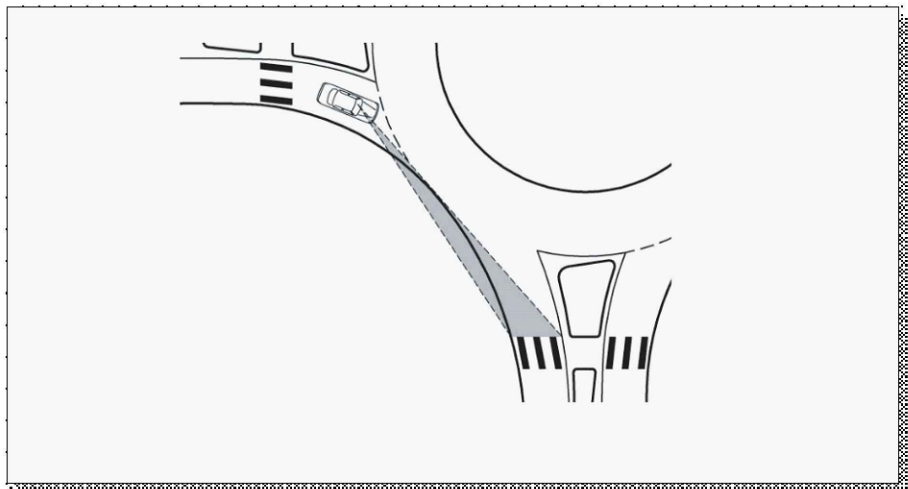
$d_m = (0.278 \cdot 2.5 \cdot 40) + 0.039 \cdot 40^2 / 3.4 = 46.2 \text{ m}$



3. SSD to Crosswalk Exit

V=enteringspeed, km/h 40 km/h

$d_m = (0.278 \cdot 2.5 \cdot 40) + 0.039 \cdot 40^2 / 3.4 = 46.2 \text{ m}$



NOTES

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NOTE: REFER TO THE LANDSCAPE DRAWINGS FOR ALL DETAILS WITHIN THE BOULEVARD AND MEDIANS

NOT FOR CONSTRUCTION



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NAD 83

COORDINATES

|     |                               |                      |    |      |
|-----|-------------------------------|----------------------|----|------|
|     |                               |                      |    |      |
|     |                               |                      |    |      |
| B   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| A   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |

|                                                                                                                                                                                                                                                                                        |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| PERMIT<br><b>PERMIT TO PRACTICE</b><br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE: _____<br>RM APEGA ID #: <b>80331</b><br>DATE: <b>2025-06-13</b><br><b>PERMIT NUMBER: P013381</b><br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) | SEAL<br> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|

|          |                    |                      |
|----------|--------------------|----------------------|
|          | BY                 | DATE<br>(YYYY-MM-DD) |
| DESIGNED | DM                 | 2024-12-12           |
| DRAWN    | DM                 | 2024-12-12           |
| CHECKED  | KB                 | 2024-12-12           |
| SCALE    | 0 10 20 m<br>1:500 |                      |



PROJECT  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTAKS, AB**

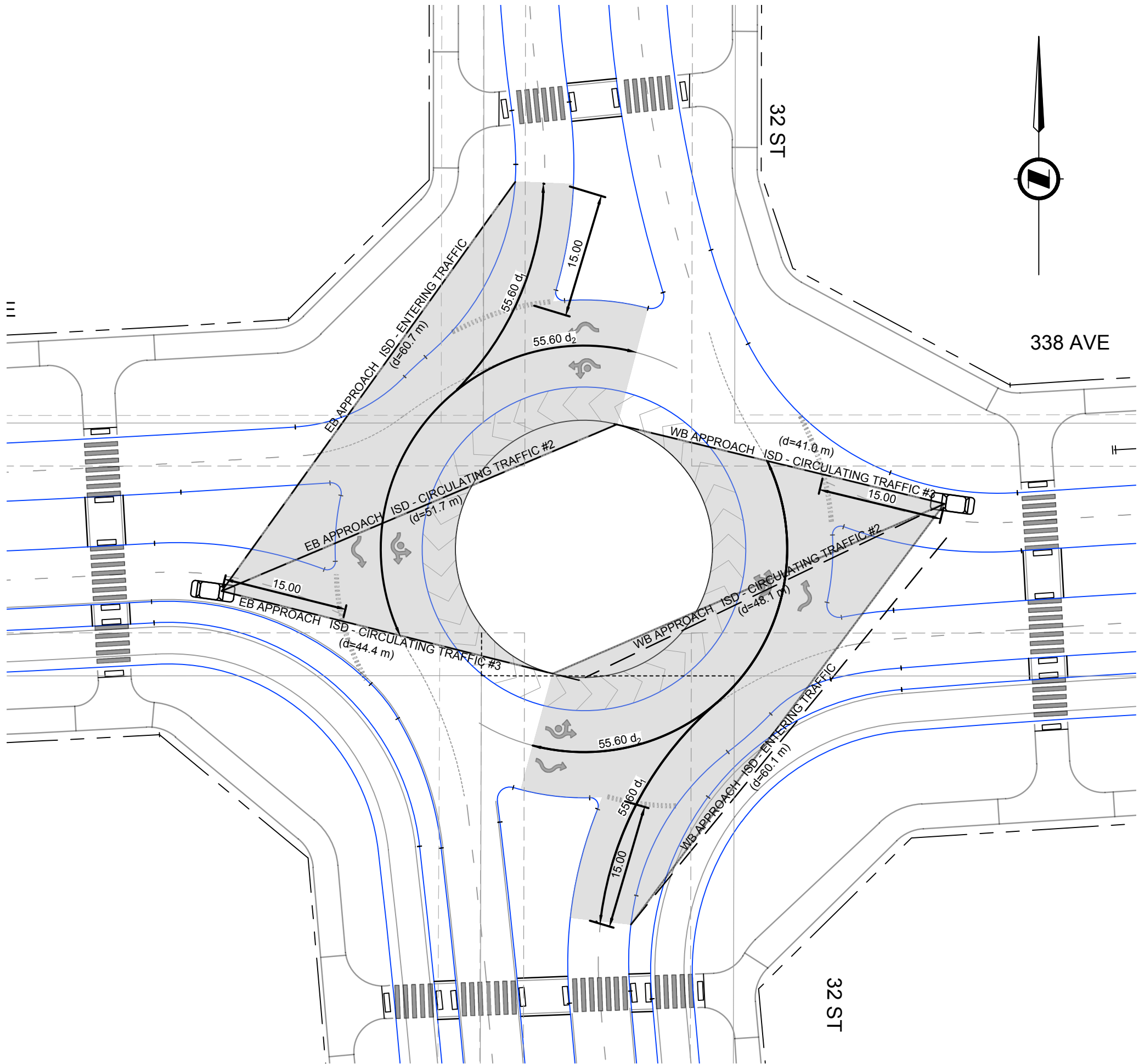
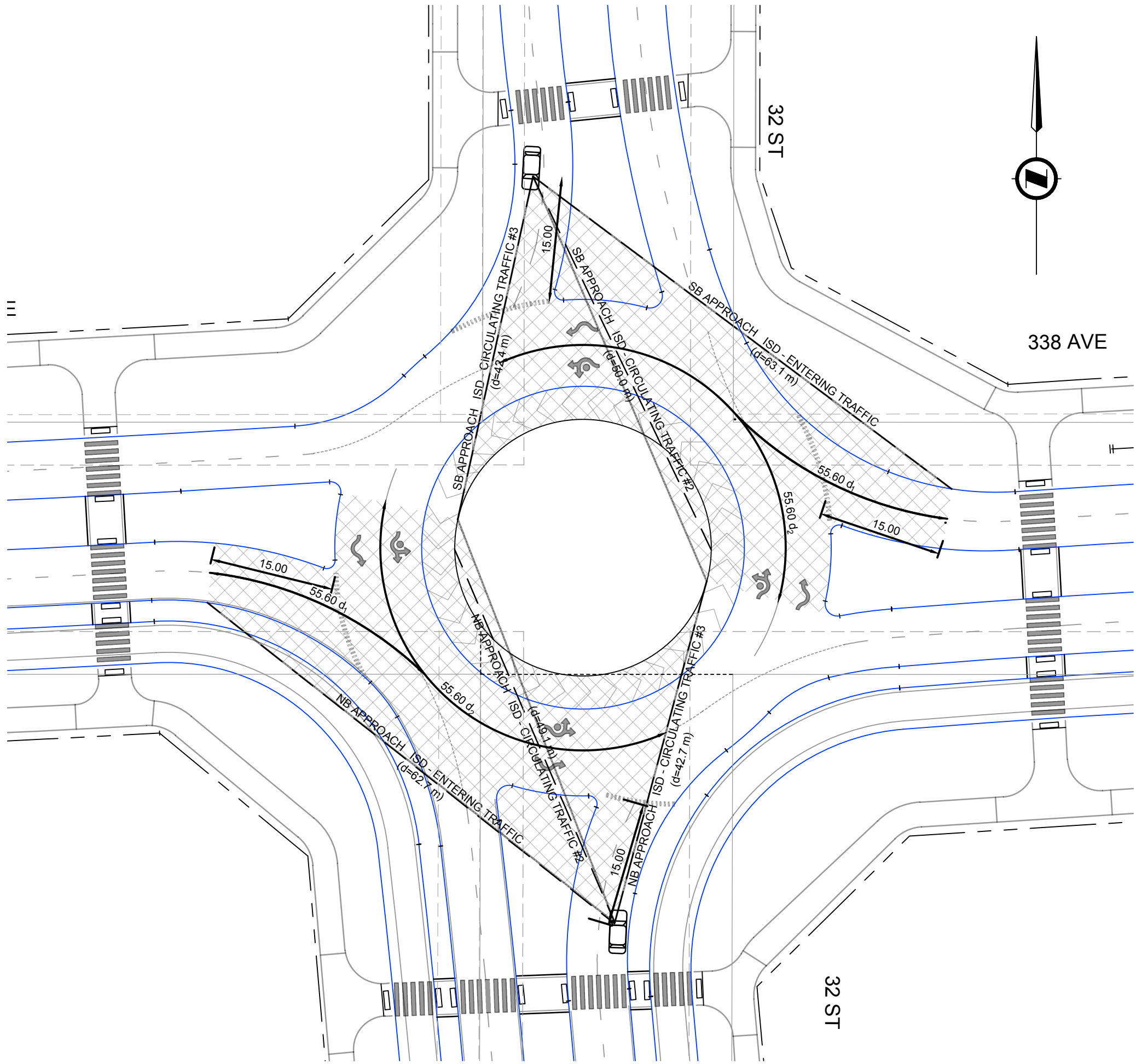
SHEET TITLE  
**ROUNDABOUT SSD CALCULATIONS**

|                             |                      |
|-----------------------------|----------------------|
| WORK ORDER NO.              | ACTIVITY NO.         |
|                             | 138875               |
| FILE NO.<br>138875-C500.dwg | ENG DWG NO.          |
| SHEET ID.<br>C502           | SHEET NO.<br>70      |
| BY                          | DATE<br>(YYYY-MM-DD) |
| DRAWN                       | PROFILE NO.          |

ISC: SHEET SIZE ANSI D 25 mm



FILE: C:\USERS\ROD\GARIBU\BID\ACCD\OS\ARCADIS\ACC\_USA\CA-001\8875-338 AVE\PROJECT FILES\7\_PROD\DOC\7.03\_DESIGN\04\_CIVIL\SHEETS\138875-C500.DWG | DATE: June 13, 2025 12:04:00 PM



#### Intersection Sight Distance

$$d1=(0.278)V_{ent}(t_c)$$

$$d2=(0.278)V_{circ}(t_c)$$

d1 = length of entering leg of sight triangle, m  
d1 = length of circulating leg of sight triangle, m  
V<sub>major</sub> = design speed of conflicting movement, km/h  
t<sub>c</sub> = critical headway for entering the major road, s, equal to 5s.

V<sub>ent</sub> - is composed of vehicles from the immediate upstream entry. The speed for this movement can be approximated by taking the average of the theoretical entering (R1) speed and the circulating (R2) speed.

V<sub>circ</sub> - is composed of vehicles that enter the roundabout prior to the immediate upstream entry. This speed can be approximated by taking the speed of left-turning vehicles (path with radius R4).

#### 1. Entering Stream

| Approach (Confl. Mvmt) | R1 (km/h) | R2 (km/h) | RAvg. (km/h) | V (km/h) | d1 (m) |
|------------------------|-----------|-----------|--------------|----------|--------|
| No circulatory stream  | 39.15     | 28.29     | 33.72        | 40       | 55.6   |

#### 2. Circulating Stream

| Approach              | R4 (km/h) | V (km/h) | d2 (m) |
|-----------------------|-----------|----------|--------|
| No circulatory stream | 25.33     | 40       | 55.6   |

#### LEGEND

d<sub>1</sub> Entering stream distance  
d<sub>2</sub> Circulating stream distance

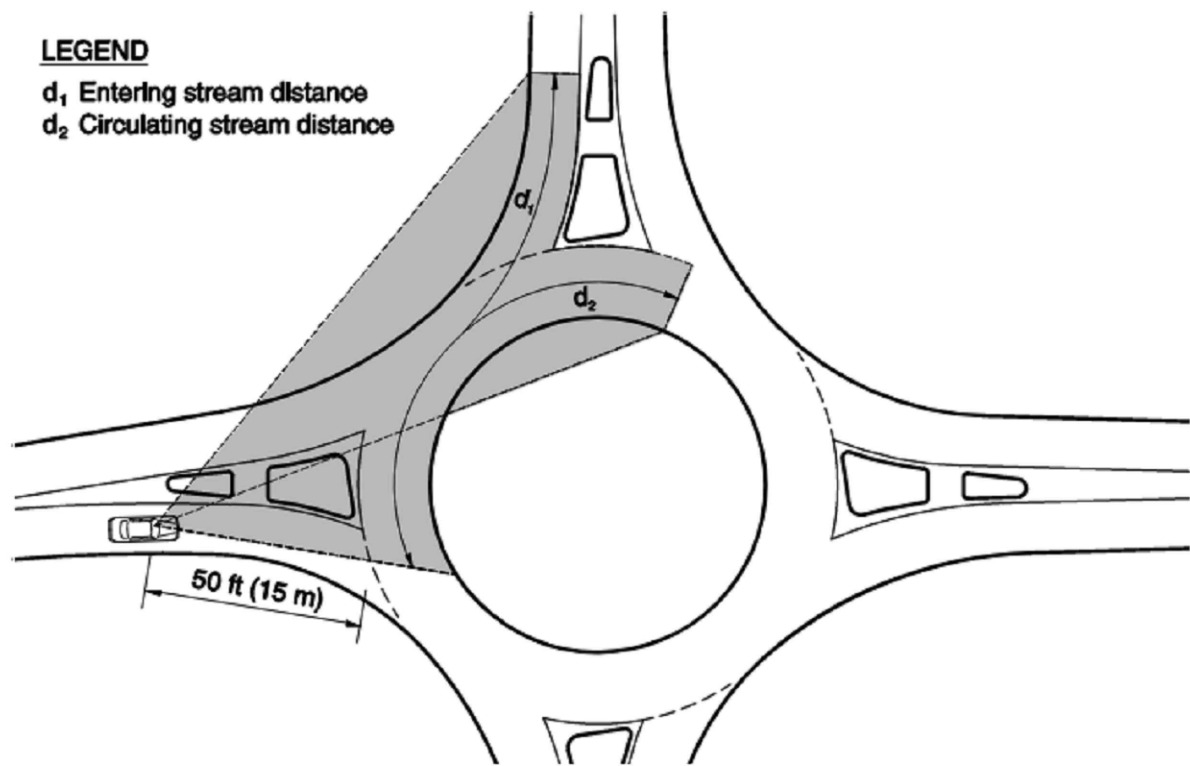


Exhibit 6-59  
Computed Length of  
Conflicting Leg of  
Intersection Sight Triangle

| Conflicting Approach Speed (mph) | Computed Distance (ft) | Conflicting Approach Speed (km/h) | Computed Distance (m) |
|----------------------------------|------------------------|-----------------------------------|-----------------------|
| 10                               | 73.4                   | 20                                | 27.8                  |
| 15                               | 110.1                  | 25                                | 34.8                  |
| 20                               | 146.8                  | 30                                | 41.7                  |
| 25                               | 183.5                  | 35                                | 48.7                  |
| 30                               | 220.2                  | 40                                | 55.6                  |

Note: Computed distances are based on a critical headway of 5.0 s.

## NOTES

- ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
- REFER TO LEGEND DRAWING 0003 FOR SURFACE AND LINE DESCRIPTIONS.
- WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
- UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
- REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
- PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
- CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.

NOTE: REFER TO THE LANDSCAPE DRAWINGS FOR ALL DETAILS WITHIN THE BOULEVARD AND MEDIANS

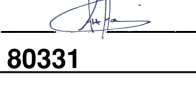
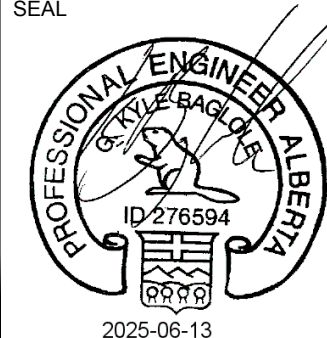
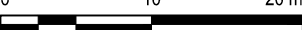
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NAD 83  
COORDINATES

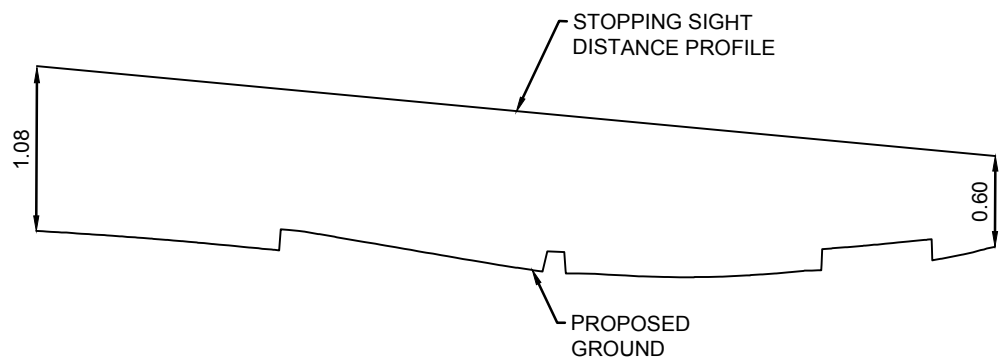
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|                                                                                                                                                                                                                                                                                                                                                   |                               |    |                                                                                                  |                      |      |
|                                                                                                                                                                                                                                                                                                                                                   |                               |    |                                                                                                  |                      |      |
| B                                                                                                                                                                                                                                                                                                                                                 | ISSUED FOR 100% DESIGN        |    | 2025-06-13                                                                                       | KB                   | AH   |
| A                                                                                                                                                                                                                                                                                                                                                 | ISSUED FOR 100% DESIGN REVIEW |    | 2025-01-30                                                                                       | KB                   | AH   |
| NO.                                                                                                                                                                                                                                                                                                                                               | DESCRIPTION                   |    | DATE<br>(YYYY-MM-DD)                                                                             | BY                   | APPD |
| PERMIT                                                                                                                                                                                                                                                                                                                                            |                               |    | SEAL                                                                                             |                      |      |
| <div>PERMIT TO PRACTICE<br/>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br/>RM SIGNATURE: <br/>RM APEGA ID #: 80331<br/>DATE: 2025-06-13<br/>PERMIT NUMBER: P013381<br/>The Association of Professional Engineers and Geoscientists of Alberta (APEGA)</div> |                               |    | <div></div> |                      |      |
|                                                                                                                                                                                                                                                                                                                                                   |                               | BY |                                                                                                  | DATE<br>(YYYY-MM-DD) |      |
| DESIGNED                                                                                                                                                                                                                                                                                                                                          |                               | DM |                                                                                                  | 2024-12-12           |      |
| DRAWN                                                                                                                                                                                                                                                                                                                                             |                               | DM |                                                                                                  | 2024-12-12           |      |
| CHECKED                                                                                                                                                                                                                                                                                                                                           |                               | KB |                                                                                                  | 2024-12-12           |      |
| SCALE<br>01020 m<br>1:500                                                                                                                                                                                                                                    |                               |    |                                                                                                  |                      |      |
| <div></div>                                                                                                                                                                                                                                                  |                               |    |                                                                                                  |                      |      |
| PROJECT<br>338 AVE ROAD IMPROVEMENTS<br>DETAILED DESIGN<br>OKOTOKS, AB                                                                                                                                                                                                                                                                            |                               |    |                                                                                                  |                      |      |
| SHEET TITLE<br>ROUNDABOUT SSD CALCULATIONS                                                                                                                                                                                                                                                                                                        |                               |    |                                                                                                  |                      |      |
| WORK ORDER NO.                                                                                                                                                                                                                                                                                                                                    |                               |    | ACTIVITY NO.<br>138875                                                                           |                      |      |
| FILE NO.<br>138875-C500.dwg                                                                                                                                                                                                                                                                                                                       |                               |    | ENG DWG NO.                                                                                      |                      |      |
| SHEET ID.<br>C503                                                                                                                                                                                                                                                                                                                                 |                               |    | SHEET NO.<br>71                                                                                  |                      |      |
|                                                                                                                                                                                                                                                                                                                                                   | BY                            |    | DATE<br>(YYYY-MM-DD)                                                                             | PROFILE NO.          |      |
| DRAWN                                                                                                                                                                                                                                                                                                                                             |                               |    |                                                                                                  |                      |      |

ISC: SHEET SIZE ANSI D 25 mm

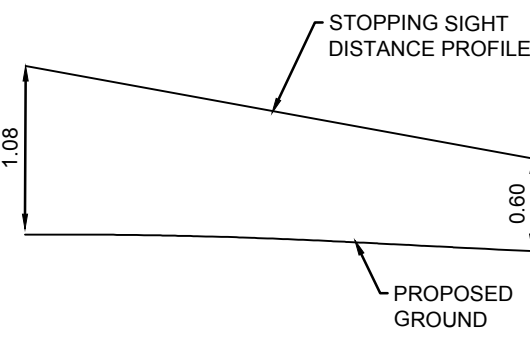


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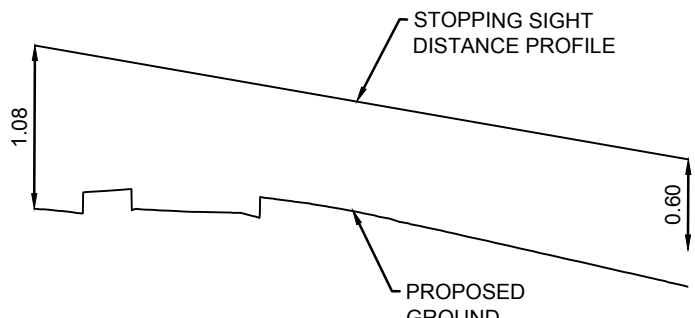
EB APPROACH



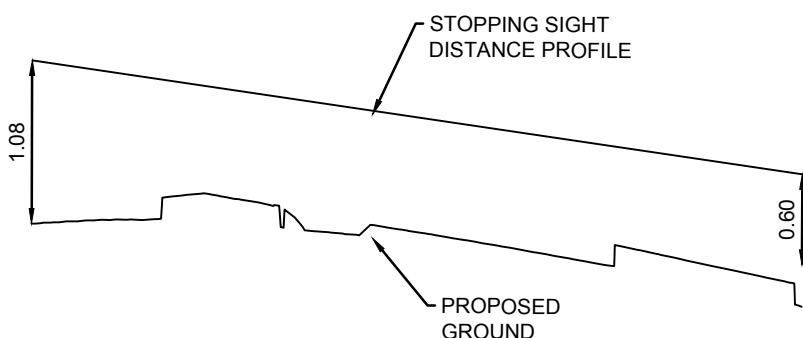
EB APPROACH – SSD TO YIELD LINE



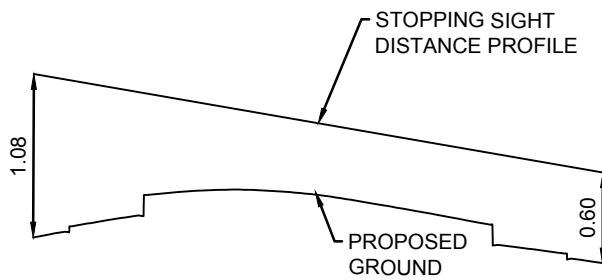
EB APPROACH – SSD TO CROSSWALK



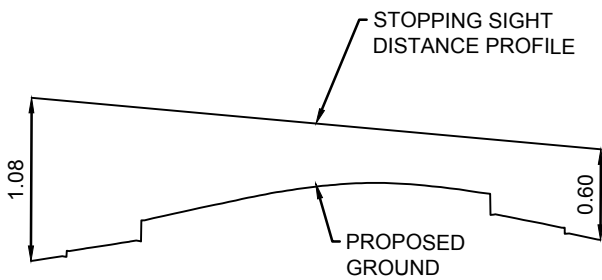
EB APPROACH – SSD TO CROSSWALK ON EXIT #1



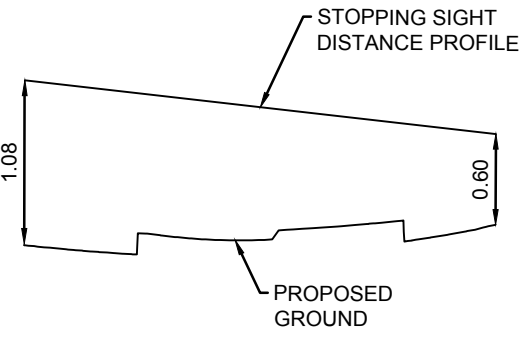
EB APPROACH – SSD TO CROSSWALK ON EXIT #2



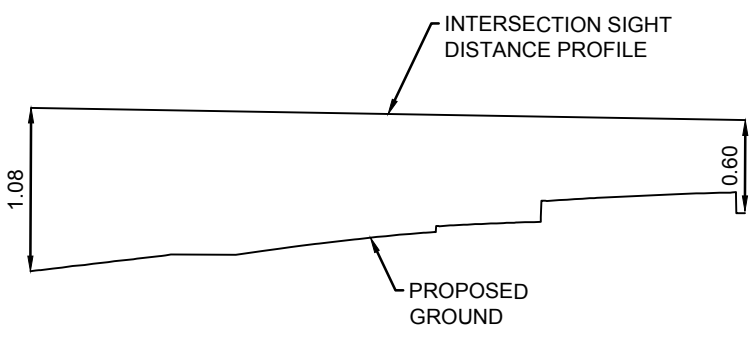
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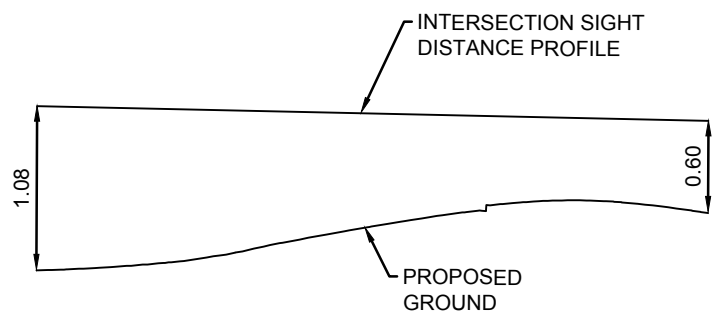
SSD Circulatory SB



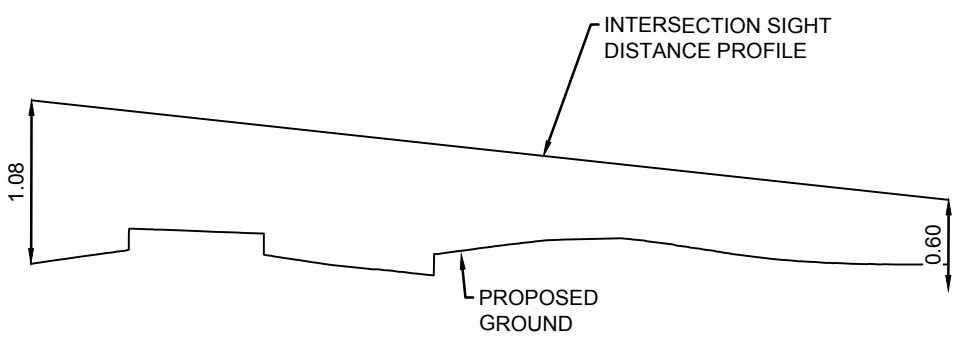
EB APPROACH – SSD TO YEILD LINE



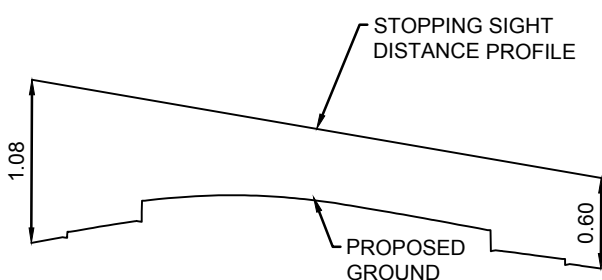
EB APPROACH ISD – CIRCULATING TRAFFIC #2



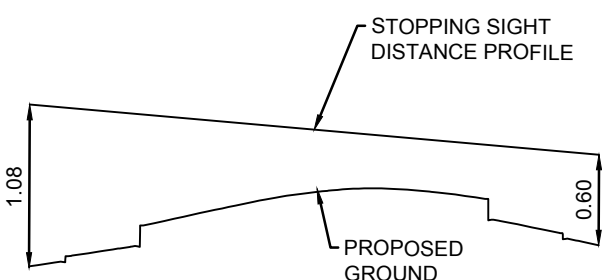
EB APPROACH ISD – CIRCULATING TRAFFIC #3



EB APPROACH ISD – ENTERING TRAFFIC

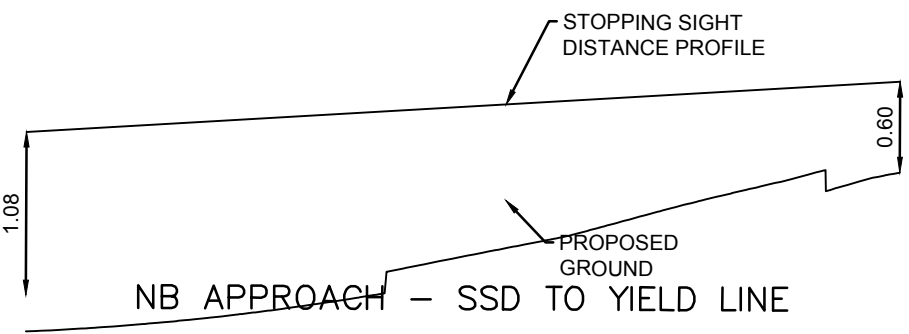


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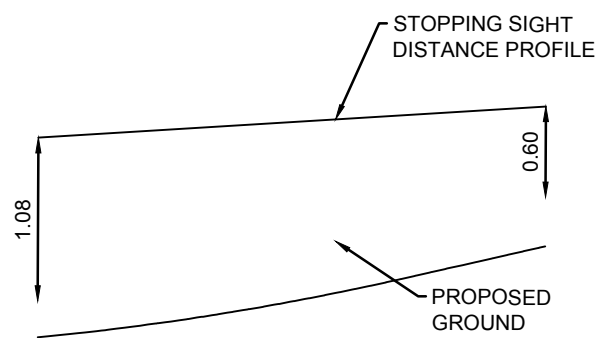


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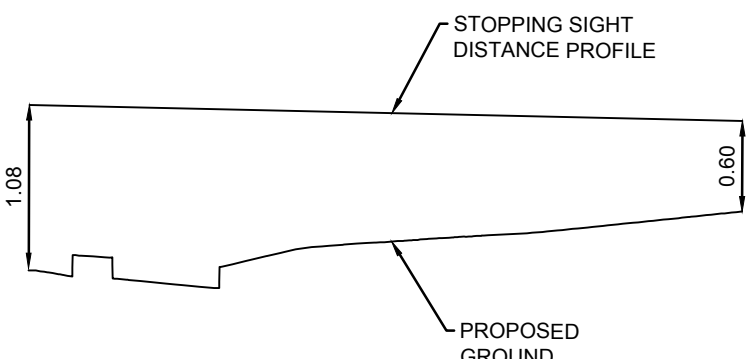
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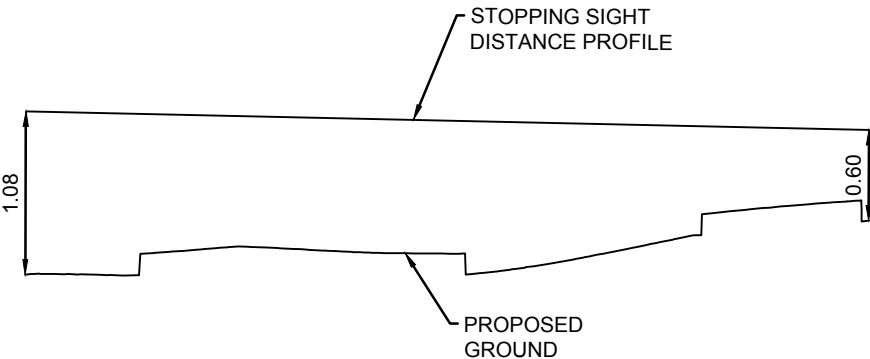
NB APPROACH – SSD TO YIELD LINE



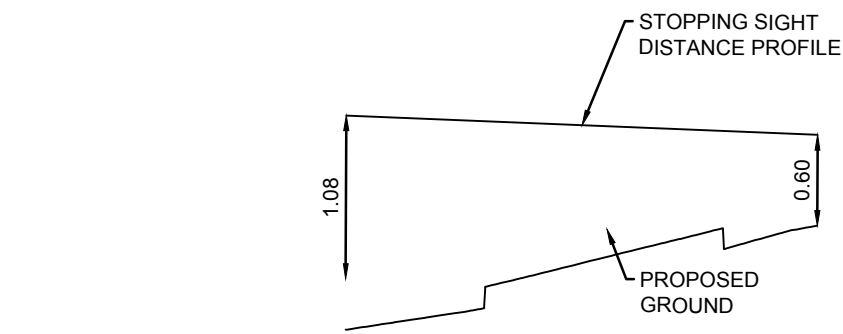
NB APPROACH – SSD TO CROSSWALK



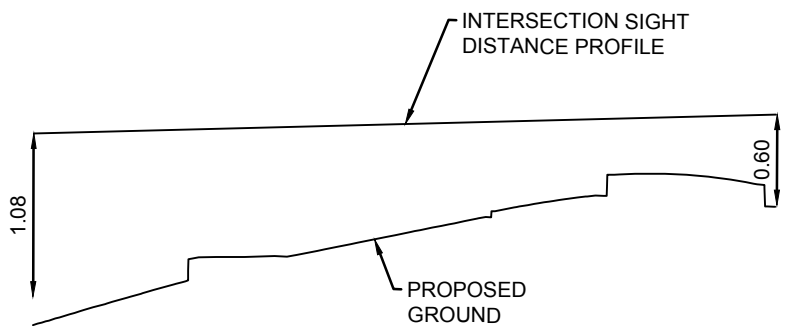
NB APPROACH – SSD TO CROSSWALK ON EXIT #1



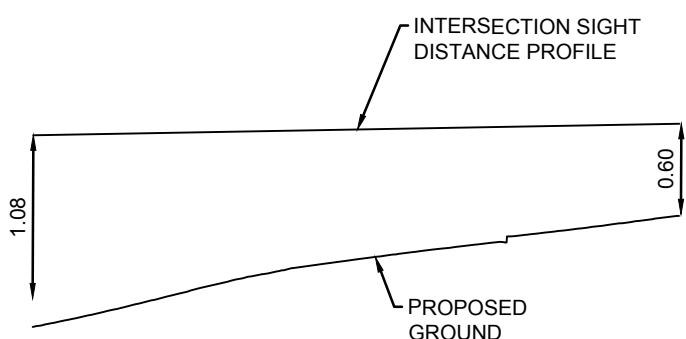
NB APPROACH – SSD TO CROSSWALK ON EXIT #2



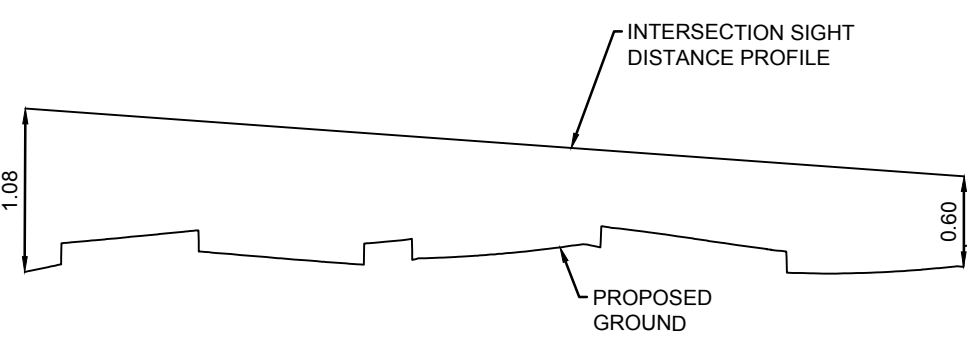
NB APPROACH – SSD TO YEILD LINE



NB APPROACH ISD – CIRCULATING TRAFFIC #2



NB APPROACH ISD – CIRCULATING TRAFFIC #3



NB APPROACH ISD – ENTERING TRAFFIC

NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
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7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.

NOTE: REFER TO THE LANDSCAPE DRAWINGS FOR ALL DETAILS WITHIN THE BOULEVARD AND MEDIANS

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NAD 83  
COORDINATES

|     |                               |                      |    |      |
|-----|-------------------------------|----------------------|----|------|
|     |                               |                      |    |      |
|     |                               |                      |    |      |
| B   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| A   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |

|                                                                                                                                                                                                                                                                                        |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| PERMIT<br><b>PERMIT TO PRACTICE</b><br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE: _____<br>RM APEGA ID #: <b>80331</b><br>DATE: <b>2025-06-13</b><br><b>PERMIT NUMBER: P013381</b><br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) | SEAL<br> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|

|          |    |                      |
|----------|----|----------------------|
|          | BY | DATE<br>(YYYY-MM-DD) |
| DESIGNED | DM | 2024-12-12           |
| DRAWN    | DM | 2024-12-12           |
| CHECKED  | KB | 2024-12-12           |

SCALE  
0 10 20 m  
1:500



PROJECT  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTOKS, AB**

SHEET TITLE  
**ROUNDAABOUT SSD & ISD SECTIONS  
(EB & NB APPROACH)**

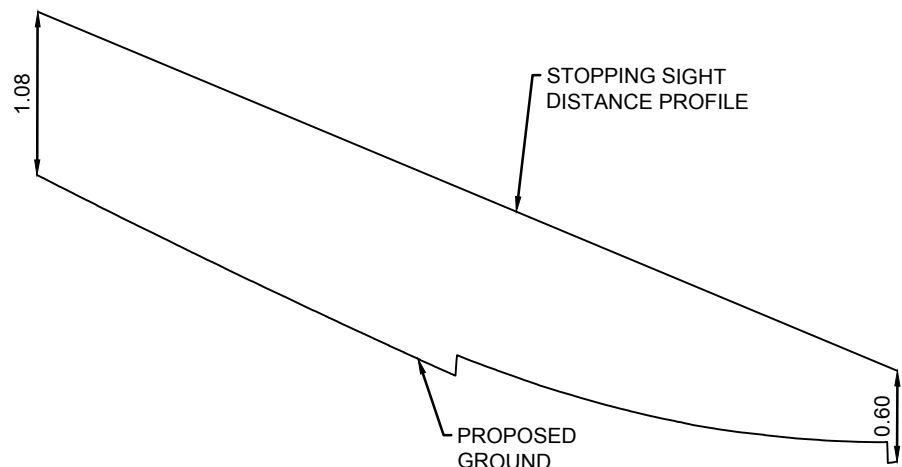
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| FILE NO.<br><b>138875-C500.dwg</b> |    | ENG DWG NO.                   |             |
| SHEET ID.<br><b>C504</b>           |    | SHEET NO.<br><b>72</b>        |             |
|                                    | BY | DATE<br>(YYYY-MM-DD)          | PROFILE NO. |
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ISC: SHEET SIZE ANSI D 25 mm

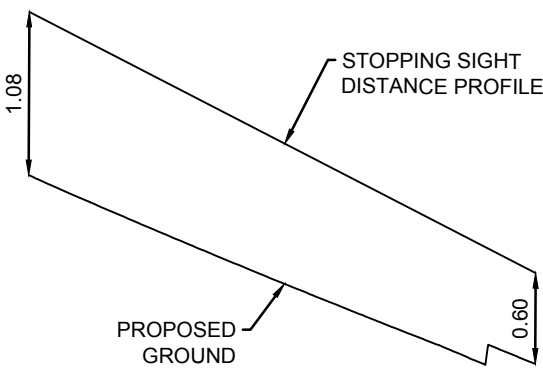


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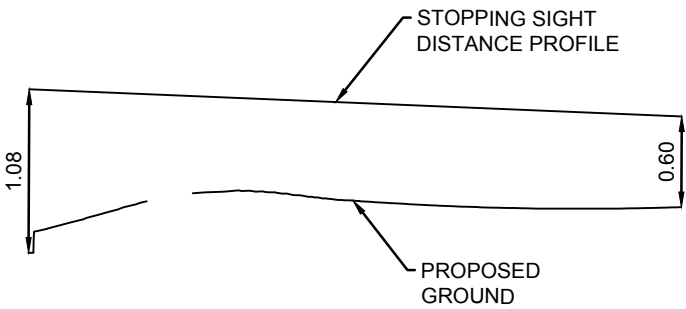
SB APPROACH



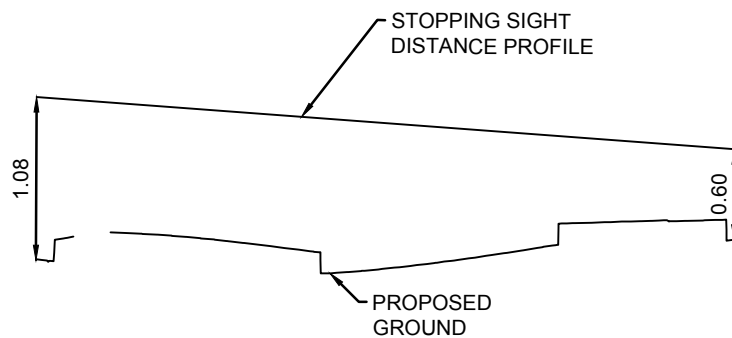
SB APPROACH – SSD TO Yield Line



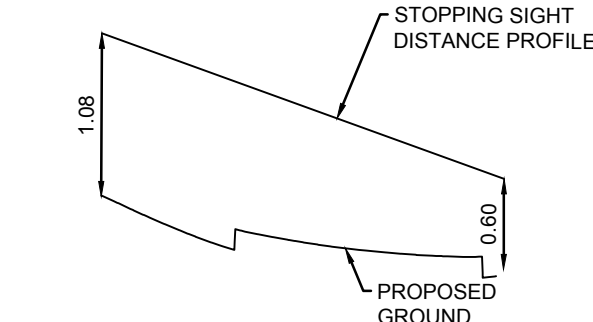
SB APPROACH – SSD TO CROSSWALK



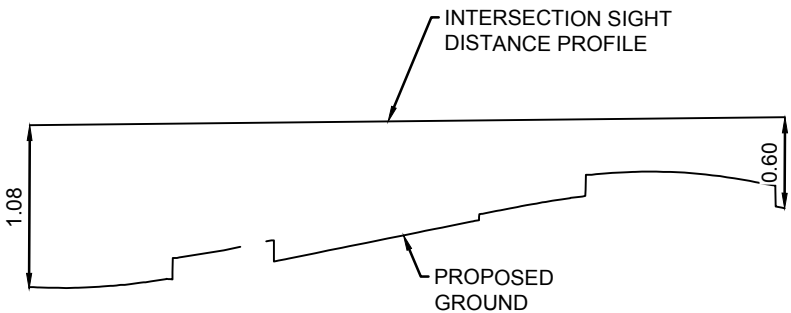
SB APPROACH – SSD TO CROSSWALK ON EXIT #1



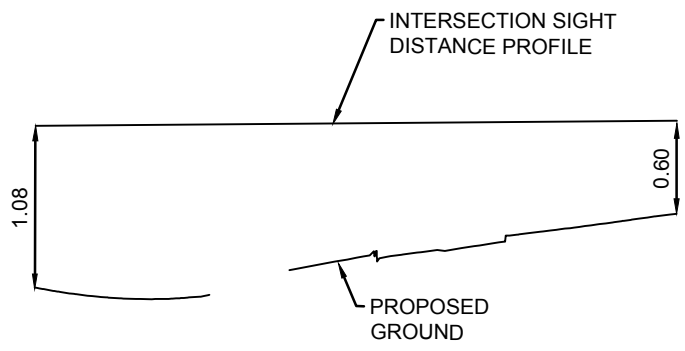
SB APPROACH – SSD TO CROSSWALK ON EXIT #2



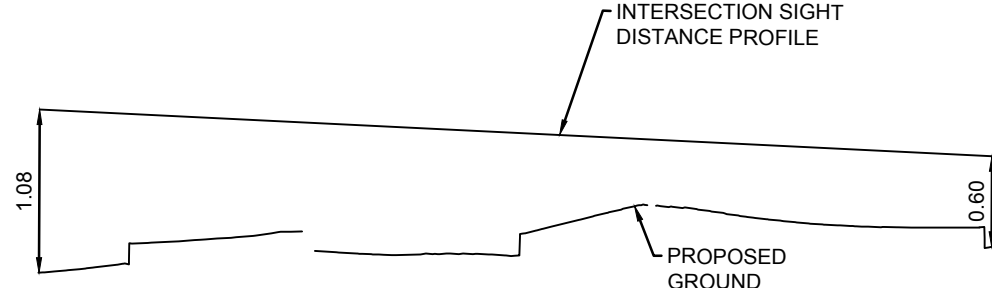
SB APPROACH – SSD TO YEILD LINE



SB APPROACH ISD – CIRCULATING TRAFFIC #2

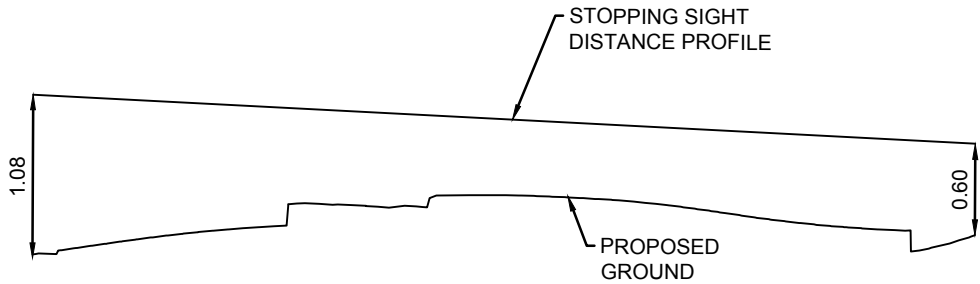


SB APPROACH ISD – CIRCULATING TRAFFIC #3

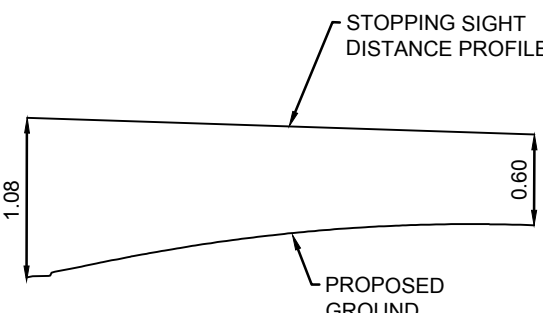


SB APPROACH ISD – ENTERING TRAFFIC

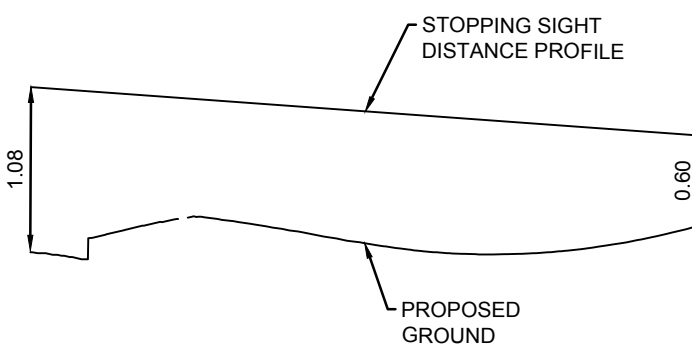
WB APPROACH



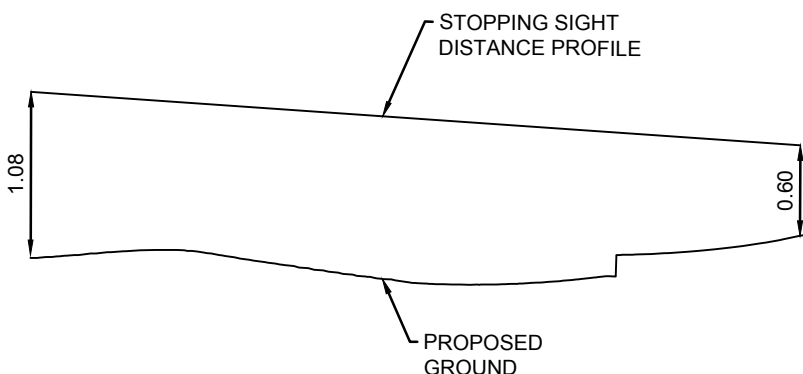
WB APPROACH – SSD TO YIELD LINE



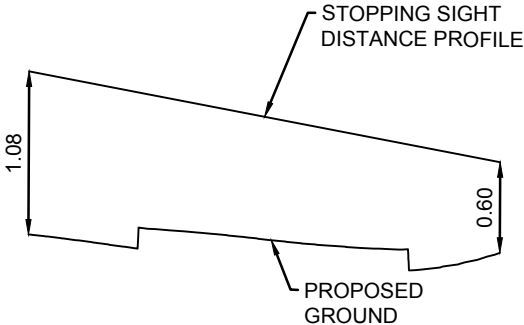
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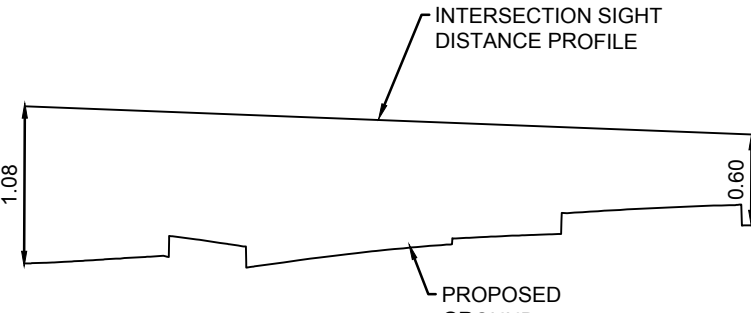
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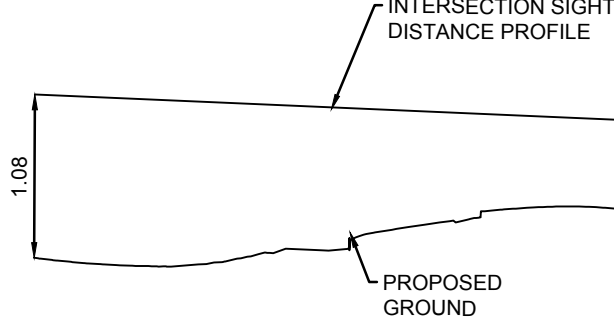
WB APPROACH – SSD TO CROSSWALK ON EXIT #2



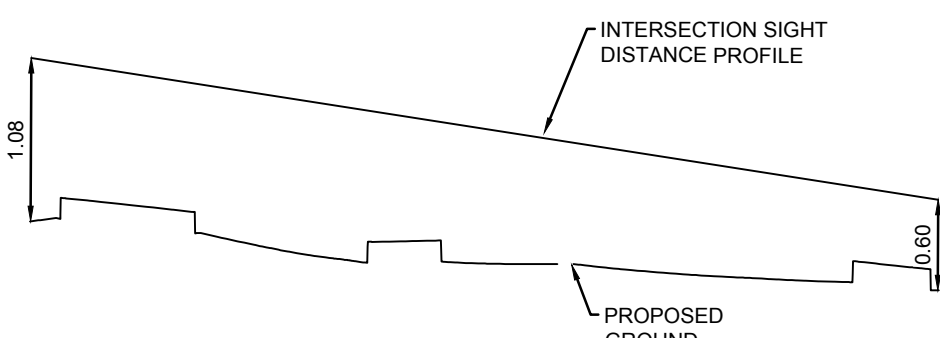
WB APPROACH – SSD TO YEILD LINE



WB APPROACH ISD – CIRCULATING TRAFFIC #2



WB APPROACH ISD – CIRCULATING TRAFFIC #3



WB APPROACH ISD – ENTERING TRAFFIC

NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING 0003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPERATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
5. UTILITIES AND STRUCTURES SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY NOT BE COMPLETE OR ACCURATE. DISPLAYED INFORMATION HAS BEEN SUPPLIED BY OTHERS AND MAY HAVE BEEN OFFSET FOR CLARITY. CONTRACTOR(S) SHALL CONFIRM UTILITY LOCATIONS WITH MUNICIPAL AND UTILITY OWNERS PRIOR TO COMMENCING ANY WORK.
6. REFER TO DRAWING C300 FOR PAVEMENT STRUCTURE DETAILS.
7. PROPOSED STREETLIGHT LOCATIONS ARE BASED ON THE STREETLIGHT CONCEPT DESIGN. STREETLIGHT DETAILED DESIGN TO BE COMPLETED BY OTHERS.
8. CULVERTS CROSSING 338 AVENUE ARE TO BE INSTALLED AT THE LOWEST EXISTING GROUND ELEVATION TO ENSURE PROPER CONVEYANCE.

NOTE: REFER TO THE LANDSCAPE DRAWINGS FOR ALL DETAILS WITHIN THE BOULEVARD AND MEDIANS

NOT FOR CONSTRUCTION



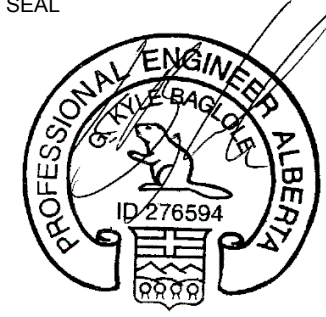
227 11 Avenue SW - 3rd Floor  
Calgary AB T2R 1R9 Canada  
tel 403 270 5600  
[www.arcadis.com](http://www.arcadis.com)



NAD 83

COORDINATES

|     |                               |                      |    |      |
|-----|-------------------------------|----------------------|----|------|
|     |                               |                      |    |      |
|     |                               |                      |    |      |
|     |                               |                      |    |      |
| B   | ISSUED FOR 100% DESIGN        | 2025-06-13           | KB | AH   |
| A   | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30           | KB | AH   |
| NO. | DESCRIPTION                   | DATE<br>(YYYY-MM-DD) | BY | APPD |

|                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| PERMIT<br><b>PERMIT TO PRACTICE</b><br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE: <br>RM APEGA ID #: <b>80331</b><br>DATE: <b>2025-06-13</b><br><b>PERMIT NUMBER: P013381</b><br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) | SEAL<br><br>2025-06-13 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|

|          |                    |                      |
|----------|--------------------|----------------------|
|          | BY                 | DATE<br>(YYYY-MM-DD) |
| DESIGNED | DM                 | 2024-12-12           |
| DRAWN    | DM                 | 2024-12-12           |
| CHECKED  | KB                 | 2024-12-12           |
| SCALE    | 0 10 20 m<br>1:500 |                      |



PROJECT  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTOKS, AB**

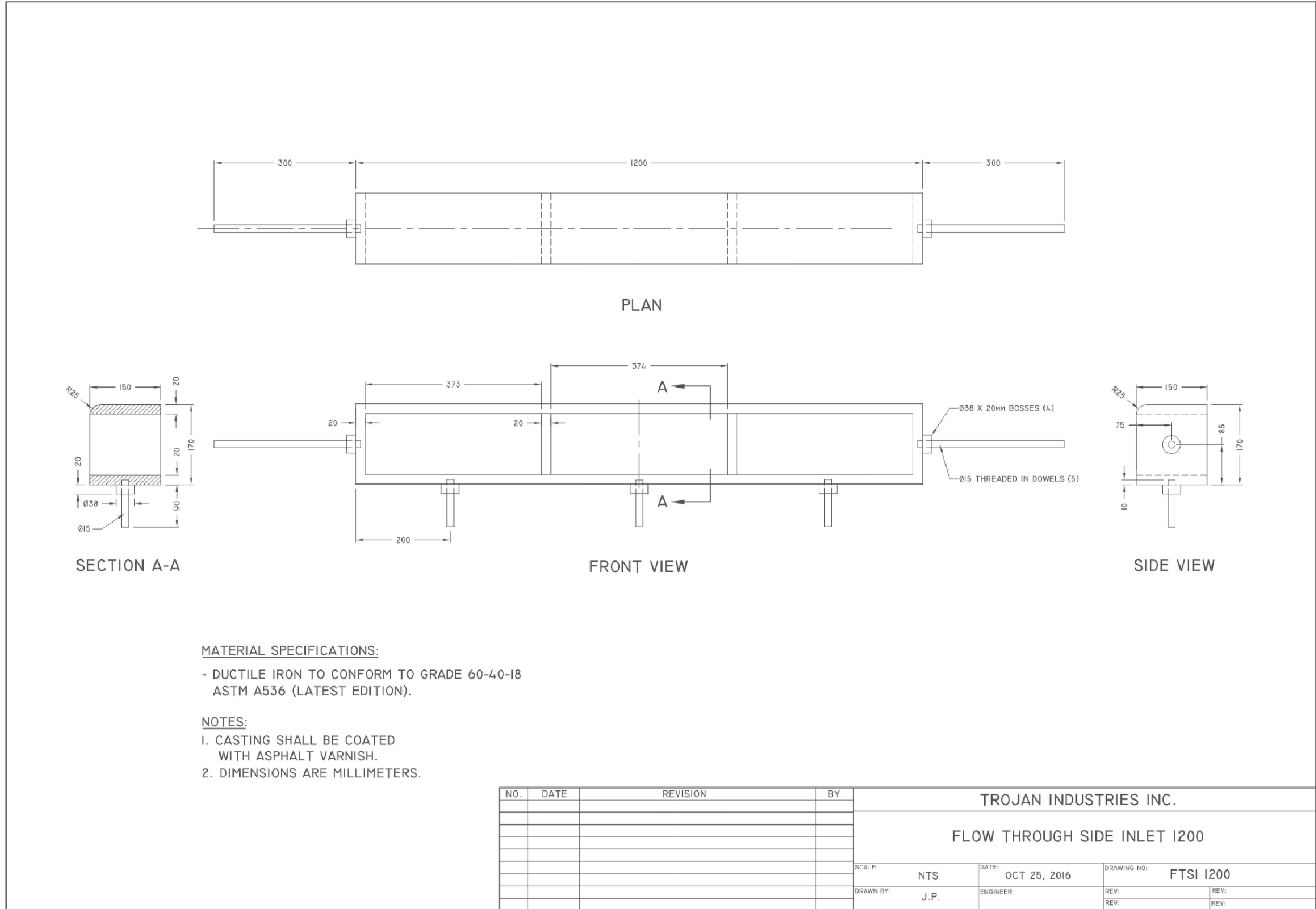
SHEET TITLE  
**ROUNDAABOUT SSD & ISD SECTIONS  
(SB & WB APPROACH)**

|                             |                        |
|-----------------------------|------------------------|
| WORK ORDER NO.              | ACTIVITY NO.           |
| FILE NO.<br>138875-C500.dwg | ENG DWG NO.            |
| SHEET ID.<br><b>C505</b>    | SHEET NO.<br><b>73</b> |
| DATE<br>(YYYY-MM-DD)        | PROFILE NO.            |
| DRAWN                       |                        |

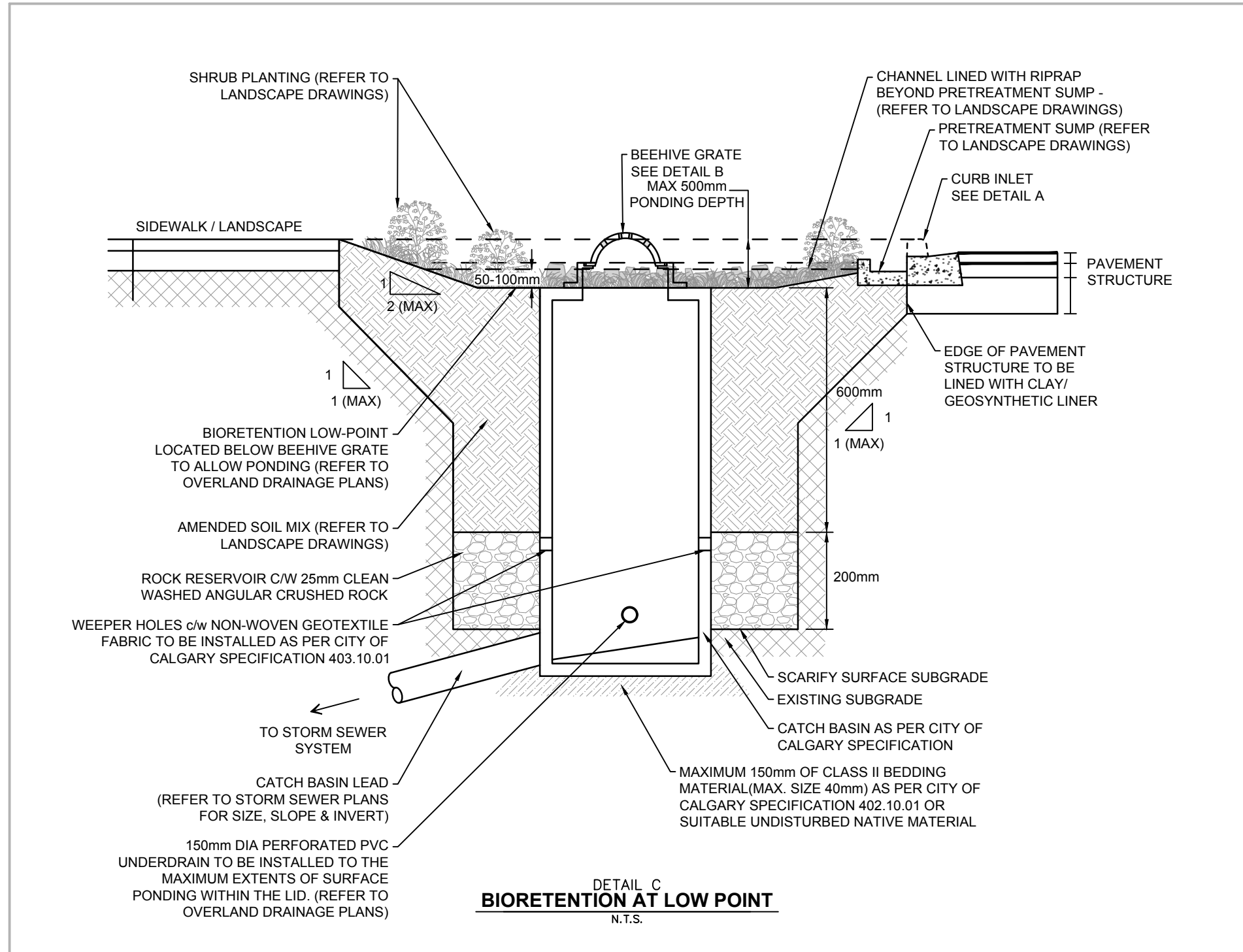
ISC: SHEET SIZE ANSI D 25 mm



FILE: C:\USERS\ROD\GARIB31\BDO\ACCD\CS\ARCADIS\ACC US\ACA-001\8875-338 AVE\PROJECT FILES\7\_PROD\DOC\7.03\_DESIGN\04\_CIVIL\SHEETS\138875-C500.DWG | DATE: June 13, 2025 12:04:17 PM

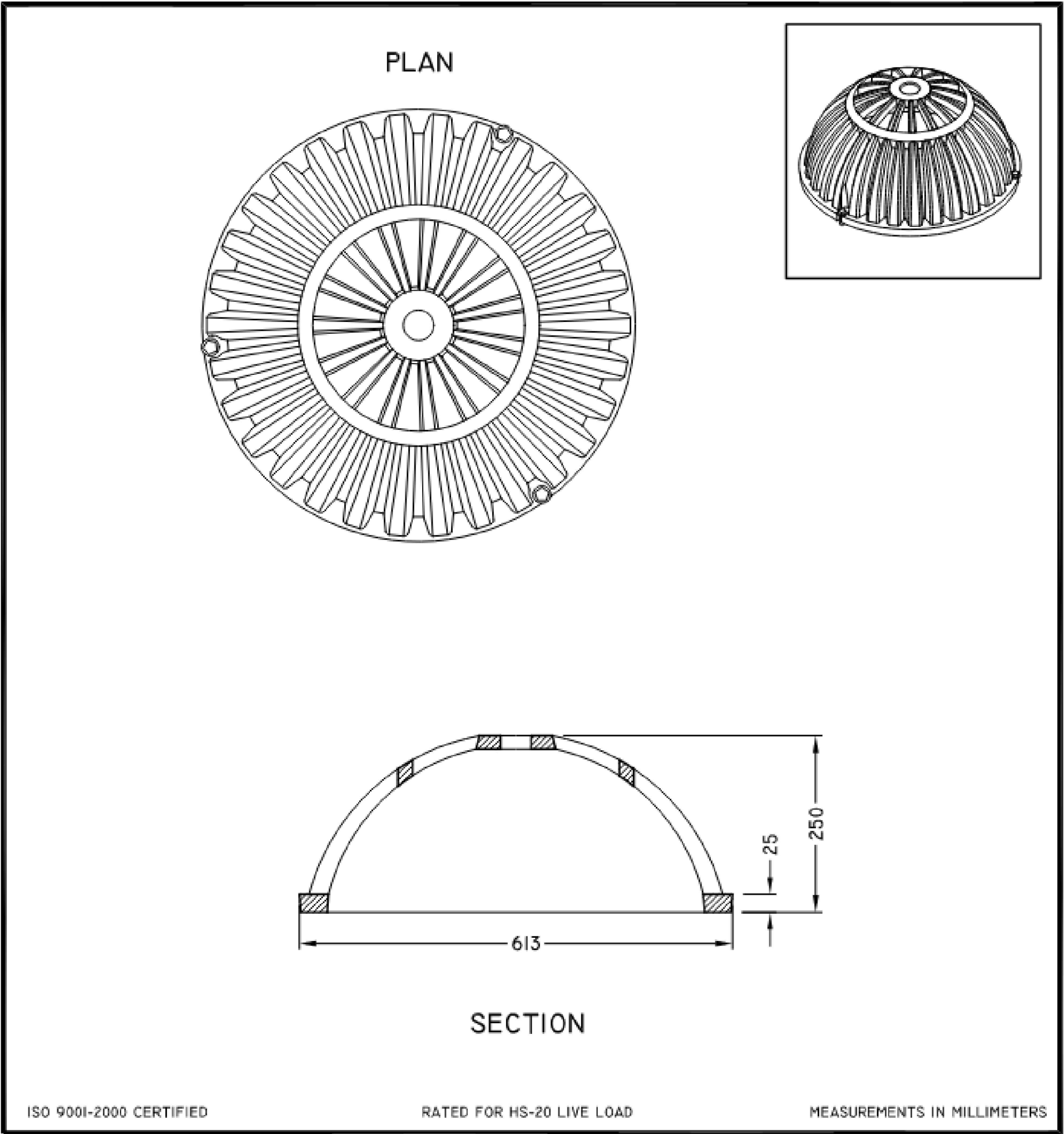


DETAIL A  
CURB INLET DETAIL  
N.T.S.



## TF-50 BEEHIVE GRATE D&L

TF-50GBEE



**TROJAN INDUSTRIES INC.**  
CALGARY • EDMONTON, ALBERTA

DETAIL B  
BEEHIVE GRATE DETAIL  
N.T.S.

## NOTES

1. ALL PIPE SIZES ARE IN MILLIMETRES AND ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL COORDINATES AND DISTANCES ARE BASED ON 3TM COORDINATE SYSTEM (NAD 83).
3. REFER TO LEGEND DRAWING G003 FOR SURFACE AND LINE DESCRIPTIONS.
4. WHEELCHAIR RAMPS TO BE DESIGNED IN ACCORDANCE WITH CITY OF CALGARY STANDARD SPECIFICATIONS FOR ROAD DESIGN. SEPARATE WHEELCHAIR RAMPS TO BE PROVIDED AT EACH CROSSING IN ALIGNMENT WITH CROSSING DIRECTION. REFER TO LANDSCAPING DRAWING L5.2 FOR WHEELCHAIR RAMP DETAILS (100% PACKAGE).
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NOTE: REFER TO THE LANDSCAPE DRAWINGS FOR ALL DETAILS WITHIN THE BOULEVARD AND MEDIANS

NOT FOR CONSTRUCTION



227 11 Avenue SW - 3rd Floor  
Calgary AB T2R 1R9 Canada  
tel 403 270 5600  
[www.arcadis.com](http://www.arcadis.com)



NAD 83  
COORDINATES

|   |                               |            |    |    |
|---|-------------------------------|------------|----|----|
|   |                               |            |    |    |
|   |                               |            |    |    |
|   |                               |            |    |    |
| B | ISSUED FOR 100% DESIGN        | 2025-06-13 | KB | AH |
| A | ISSUED FOR 100% DESIGN REVIEW | 2025-01-30 | KB | AH |

| NO.    | DESCRIPTION                                                                                                                                                                                                                                            | DATE<br>(YYYY-MM-DD) | BY | APPD |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----|------|
| PERMIT | PERMIT TO PRACTICE<br>ARCADIS PROFESSIONAL SERVICES (CANADA) INC.<br>RM SIGNATURE: [Signature]<br>RM APEGA ID #: 80331<br>DATE: 2025-06-13<br>PERMIT NUMBER: P013381<br>The Association of Professional Engineers and Geoscientists of Alberta (APEGA) |                      |    |      |
| SEAL   | PROFESSIONAL ENGINEER<br>ALBERTA<br>ID 276594<br>2025-06-13                                                                                                                                                                                            |                      |    |      |

| DESIGNED | BY        | DATE<br>(YYYY-MM-DD) |
|----------|-----------|----------------------|
| DM       | DM        | 2024-12-18           |
| DRAWN    | DM        | 2024-12-18           |
| CHECKED  | KB        | 2024-12-18           |
| SCALE    | 0 10 20 m | 1:500                |



PROJECT  
**338 AVE ROAD IMPROVEMENTS  
DETAILED DESIGN**  
**OKOTOKS, AB**

SHEET TITLE  
**LID DETAILS**

|                             |                       |
|-----------------------------|-----------------------|
| WORK ORDER NO.              | ACTIVITY NO.          |
| FILE NO.<br>138875-C500.dwg | ENG DWG NO.<br>138875 |
| SHEET ID.<br>C510           | SHEET NO.<br>74       |
| DATE<br>(YYYY-MM-DD)        | PROFILE NO.           |
| BY                          |                       |
| DRAWN                       |                       |

ISC: SHEET SIZE ANSI D 25 mm