



MOUNTAIN ASH
• LIMITED PARTNERSHIP •

SUMMIT PIT
HIGHWAY 567 AND RANGE ROAD 40
INTERSECTION IMPROVEMENT AND ROAD UPGRADE

PROJECT TEAM

CONSULTANT :



#310, 3016 - 5 Avenue NE Calgary, Alberta T2A 6K4
T. 403.273.9001 www.wattconsultinggroup.com

DRAWING INDEX

SHEET ID	DESCRIPTION
C01	INTERSECTION IMPROVEMENT PLAN
C02	PLAN-PROFILE RANGE ROAD 40
C03	STORMWATER DRAINAGE PLAN RANGE ROAD 40
C04	SIGNAGE PLAN RANGE ROAD 40
ESC1	EROSION AND SEDIMENTATION CONTROL

DRAWING HISTORY

ISSUE:	DATE: (YYYY-MM-DD)
FOR APPROVAL	2021-04-22
REVISED FOR APPROVAL	2021-11-18
REVISED FOR APPROVAL	2021-12-16

PROPERTY DESCRIPTION

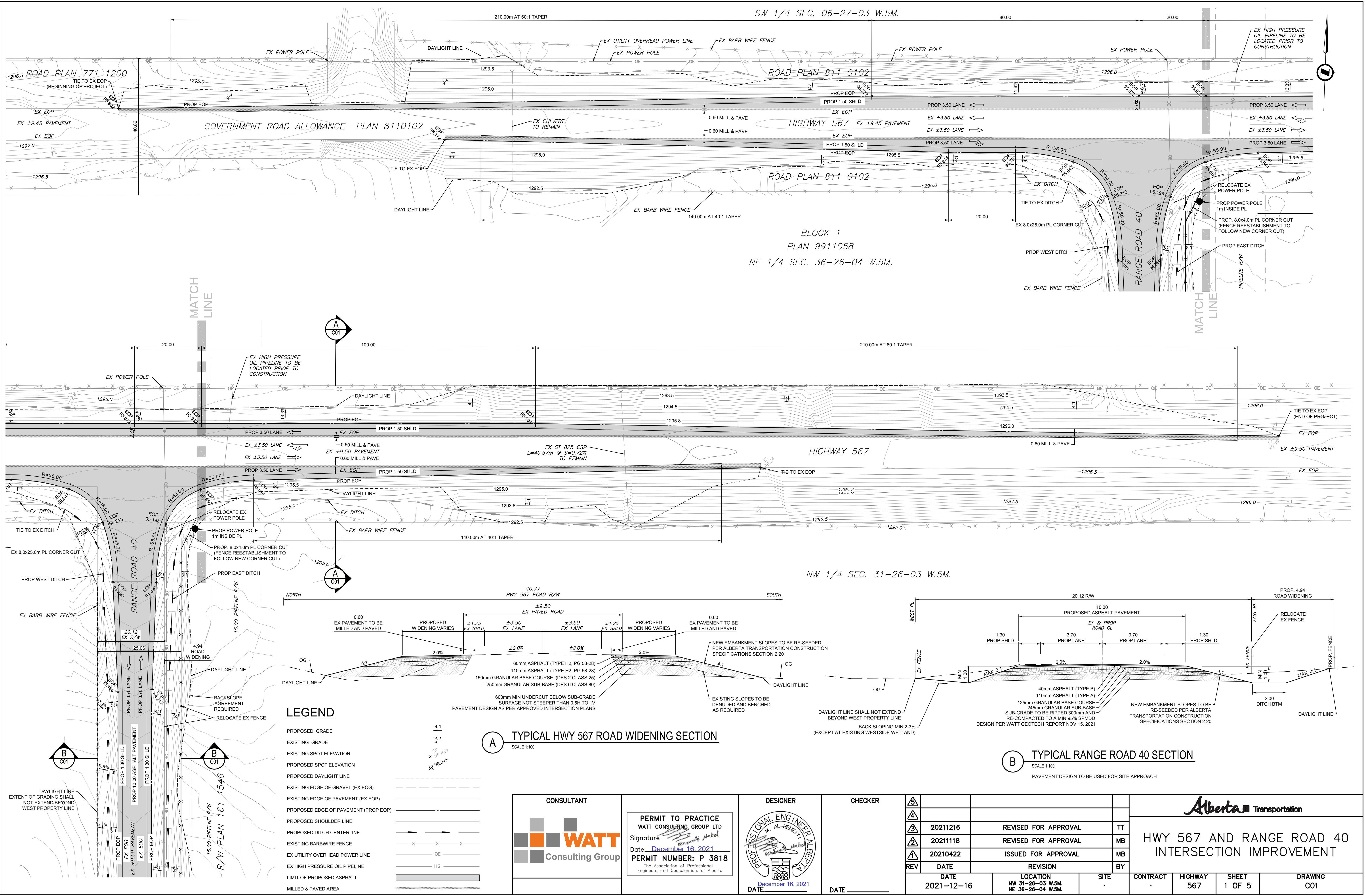
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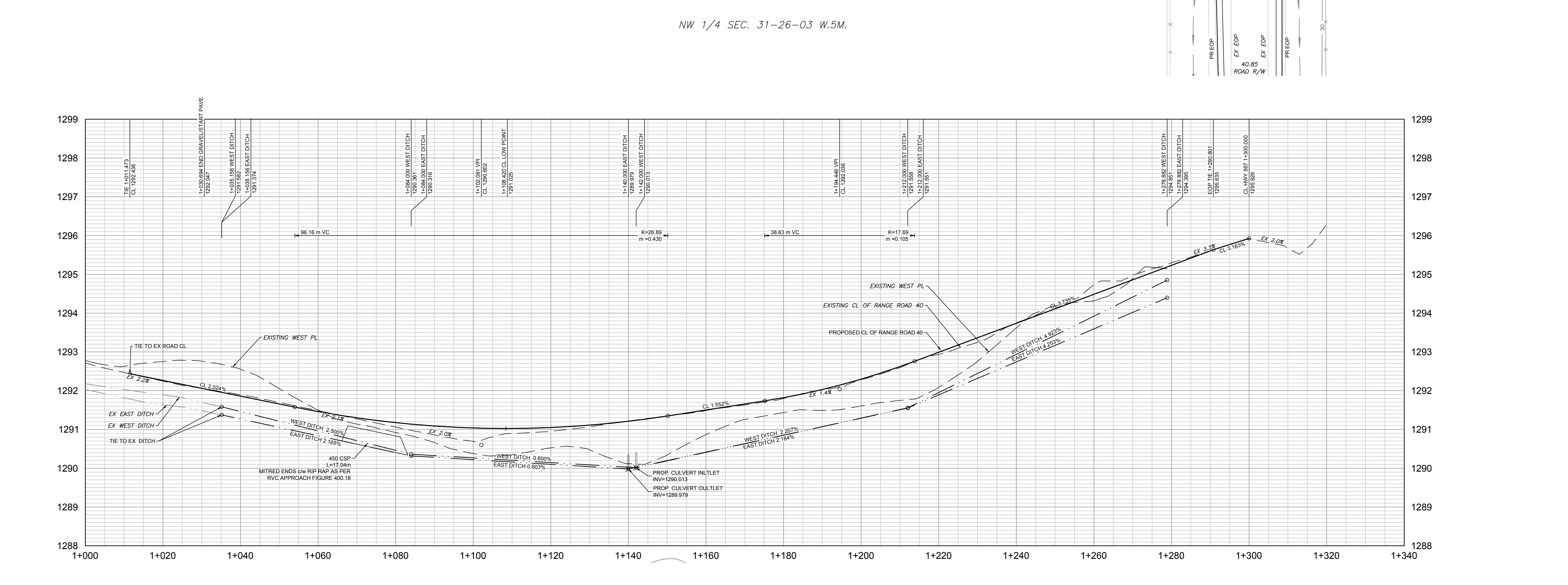
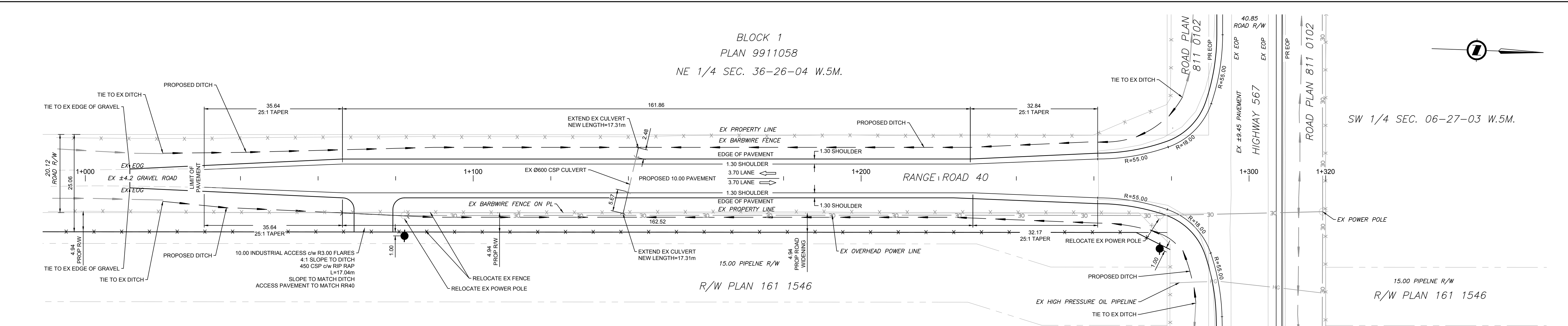
W 1/2 31-26-3-W5M



VICINITY MAP

NOT TO SCALE





CONSULTANT

WATT
Consulting Group

PERMIT TO PRACTICE
WATT CONSULTING GROUP LTD
Signature: *[Signature]*
Date: December 16, 2021
PERMIT NUMBER: P 3818
The Association of Professional
Engineers and Geoscientists of Alberta

DESIGNER

M. AL-YENEI
Professional Engineer
December 16, 2021

CHECKER

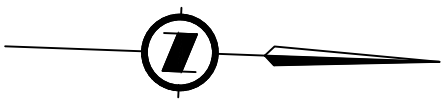
REV	DATE	REVISION	BY
1	20211216	REVISED FOR APPROVAL	TT
2	20211118	REVISED FOR APPROVAL	MB
3	20210422	ISSUED FOR APPROVAL	MB

DATE	LOCATION	SITE
2021-12-16	NW 31-26-03 W.5M. NE 36-26-04 W.5M.	

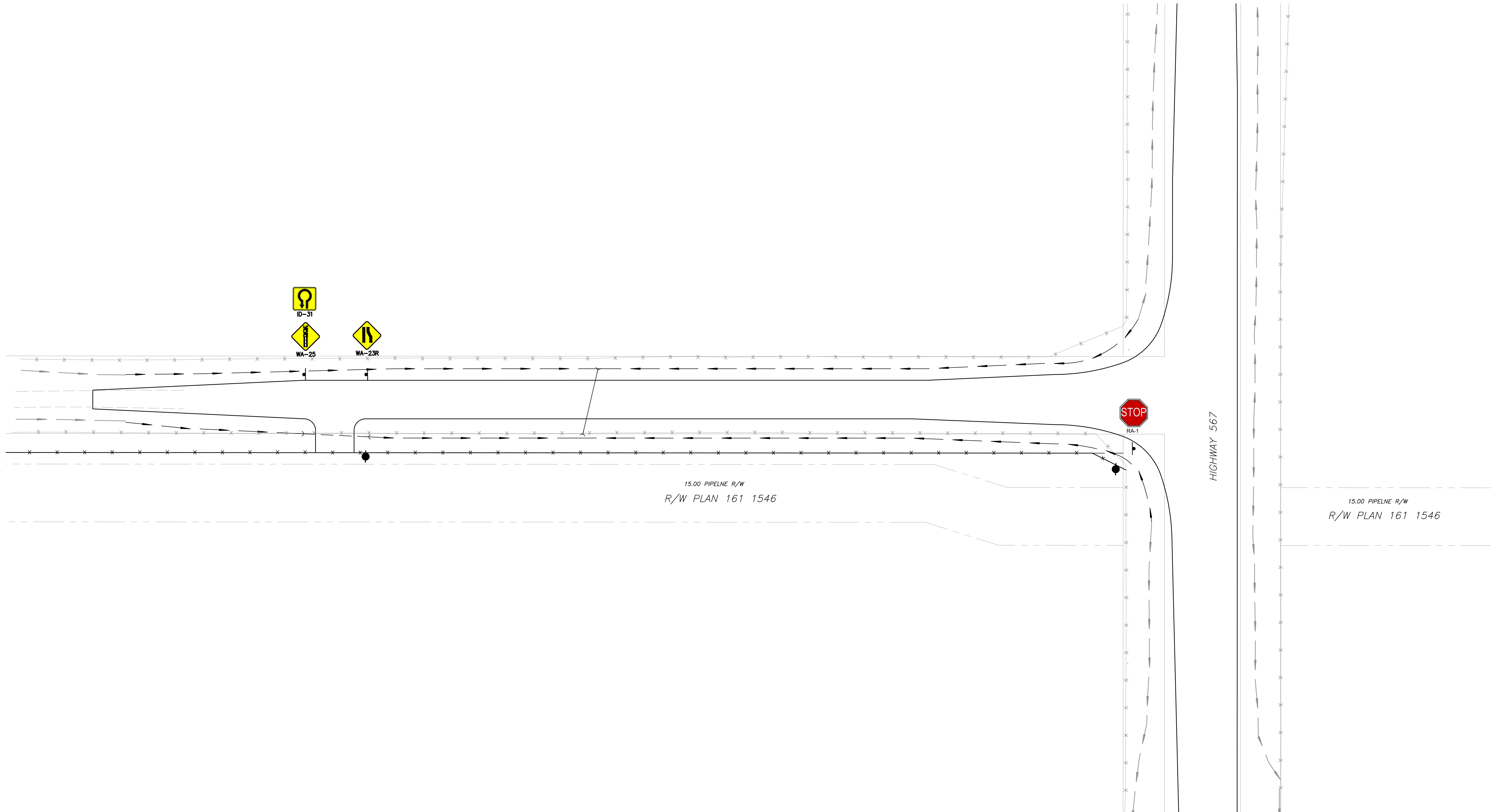
Alberta Transportation

PLAN-PROFILE
RANGE ROAD 40
FROM HWY 567 TO 246m SOUTH ON RR40

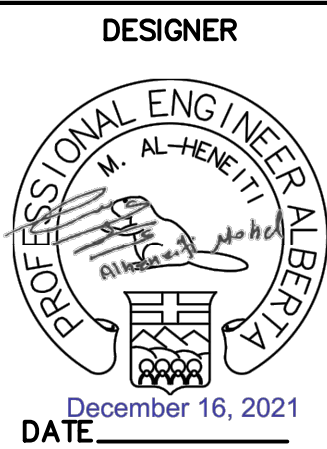
CONTRACT	HIGHWAY	SHEET	DRAWING
	567	2 OF 5	C02



DEPARTMENT BAR CODE	SURVEYED	BY	DATE	PHOTO	DESCRIPTION INTERSECTION IMPROVEMENT	CONTRACT	HIGHWAY 567	DRAWING



PERMIT TO PRACTICE
WATT CONSULTING GROUP LTD
Signature *M. Al-Yeneiti*
Date December 16, 2021
PERMIT NUMBER: P 3818
The Association of Professional
Engineers and Geoscientists of Alberta



CHECKER
DATE _____

REV	DATE	REVISION	BY
1	20211216	ISSUED FOR APPROVAL	MB
2	2021-12-16	LOCATION NW 31-26-03 W.5M. NE 36-26-04 W.5M.	SITE

Alberta Transportation			
SIGNAGE PLAN RANGE ROAD 40			
CONTRACT	HIGHWAY 567	SHEET 4 OF 5	DRAWING C04

PLOTTED DATE: 2021-12-16 11:40:20 AM PLOTTED BY: TBAK TUS

\\watt-sant-jong\shared\English\Projects\3865\ESC1 - ESC1.dwg Dec 16, 2021 - 11:40am CAD/3.2 Current\SUBMISSION SET - ESC1.dwg Dec 16, 2021 - 11:40am

SW 1/4 SEC. 06-27-03 W.5M.

15.00 PIPELINE R/W
R/W PLAN 161 1546

BLOCK 1
PLAN 9911058
NE 1/4 SEC. 36-26-04 W.5M.

NW 1/4 SEC. 31-26-03 W.5M.

ESC MEASURES TO BE
INSTALLED IMMEDIATELY
FOLLOWING GRADING AND
DITCH SHAPING
COMPLETION.

BOUNDARY AS PER MALP AGGREGATE OPERATIONS BIA
PREPARED BY SLR JANUARY 2020, AND PER WETLAND
ASSESSMENT IMPACT REPORT BY SLR, AUGUST 30, 2021

EXISTING
WETLAND

EXISTING
WETLAND

LIMIT OF
PAVEMENT



PHOTO 1



PHOTO 2



PHOTO 3



PHOTO 4



PHOTO 5



PHOTO 6



PHOTO 7

RUSLE Calculations

Drawing Code: ESC1														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Drainage Area Identifier	LS Identifier	LS Area Size (In Ha)	Slope (%)	Slope Length (m)	Description of Controls and Practices	R-Value	K-Value	LS-Value	C-Value(s)	P-Value(s)	Slope Alone With No Controls	A-Value Tonnes/ha*yr Must be at or below 2 tonnes/ha*yr	Soil Loss With Controls and Practices Tonnes/yr	Soil Loss Without Controls and Practices Tonnes/yr
DA1	LS1	0.39	4.91	51.55	HYDROSEED	320	0.036	0.91	0.08	1	10.432	0.835	0.322	4.0
DA2	LS2	0.59	4.22	51.39	HYDROSEED	320	0.036	0.77	0.08	1	8.821	0.706	0.414	5.2
DA3	LS3	0.41	25	14.08	HYDROSEED, CURLEX LOG	320	0.036	2.51	0.08	0.461	28.940	1.067	0.440	11.9
DA4	LS4	0.44	25	12.72	HYDROSEED, CURLEX LOG	320	0.036	2.32	0.08	0.461	26.736	0.986	0.433	11.7
DA5	LS5	0.32	25	12.87	HYDROSEED, CURLEX LOG	320	0.036	2.34	0.08	0.461	26.981	0.995	0.320	8.7
DA6	LS6	0.68	25	12.93	HYDROSEED, CURLEX LOG	320	0.036	2.35	0.08	0.461	27.079	0.999	0.677	18.4
#NAME?						320								
#NAME?						320								
#NAME?						320								
#NAME?						320								
Overall Site Size												Total Soil Loss Estimates	2.606	59.9
Supplemental Information														
HYDROSEED: TO INCLUDE A TACKIFIER PRODUCT APPLIED AT RATE OF 473L/ACRE (100 GAL). C-VALUE 1-12 MONTHS=0.080. CURLEX LOGS TO BE TYPE III (9 in). P-VALUE=0.461. K-VALUE=0.036 FROM ATTACHED GEOTECH REPORT.														

This calculator uses the LS3 table from Agriculture and Agri-Food Canada's RUSLEFC Revised Universal Soil Loss Equation for Application in Canada (2002) to determine an LS value from a given slope grade (%) and length (meters). The LS3 table was used as it is the Topographic Factor table that is recommended by Agriculture and Agri-Food Canada for use on construction projects that have a high ratio of rill:inter-rill erosion.

NOTES

- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST ISSUE OF THE "COUNTY OF ROCKY VIEW STANDARD SPECIFICATIONS" UNLESS OTHERWISE SPECIFIED.
- EXISTING INFORMATION IS BASED ON 3TM GROUND NAD 83 COORDINATES.
- ALL DIMENSIONS IN METERS UNLESS OTHERWISE SPECIFIED.
- ALL ELEVATIONS ARE PRECEDED BY 1000 TRUE DATUM.

LEGEND

PROPERTY LINE	---
LIMIT OF DISTURBANCE	---
CATCHMENT BOUNDARY	---
PROP. CURLEX SEDIMENT LOGS	---
EX. EDGE OF PAVEMENT	---
PROP. EDGE OF PAVEMENT	---
EXISTING BARB WIRE FENCE	---
PROPOSED BARB WIRE FENCE	---
PROPOSED ASPHALT	---
HYDROSEED	---
LS IDENTIFIER, LS LENGTH LS SLOPE, LS VALUE	---
OVERLAND FLOW DIRECTION	---
CATCHMENT AREA ID AREA (ha)	---
PHOTO REFERENCE LOCATION & DIRECTION	---

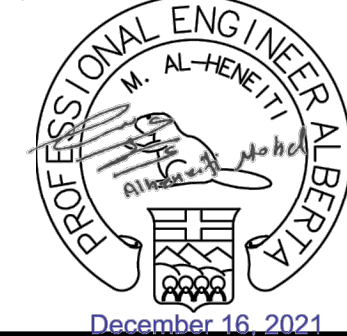
CONSULTANT:

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Watt Consulting Group
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C 403.829.3117
E mal-heneiti@wattconsultinggroup.com

DEVELOPER:

Bruce Waterman
Owner
Mountain Ash Partnership
E bruce@bgwaterman.com

Engineer's Stamp:



Permit Stamp:

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No.	Description	By	Date	Appr
A	ISSUED FOR APPROVAL	MB	2021-11-18	MA
B	REVISED FOR APPROVAL	TT	2021-12-16	MA
REVISIONS				
No.	Description	By	Date	Appr

Title:
**EROSION & SEDIMENT CONTROL
GRADING & SURFACE WORK**

Job Description:
**HWY 567 AND RANGE ROAD 40
INTERSECTION IMPROVEMENT**

Client:
ROCKY VIEW COUNTY, ALBERTA

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Calgary, Alberta T2A 6K4
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Drawn: MB	Scale: AS SHOWN	Drawing Number	Issued	Revision
Designed: MB	Date: NOV 15, 2021			
Draft Chk: TT	WATT File #: 3865.ESC1	ESC1	B	-
Design Chk: TT				
Approved: MA				