

7

PLANNING AND DEVELOPMENT SERVICES

TO: Municipal Planning Commission

DIVISION:

DATE: November 26, 2020

APPLICATION: PRDP20202964

SUBJECT: Development Item: Dwelling, Single Detached

USE: Permitted use, with Variances

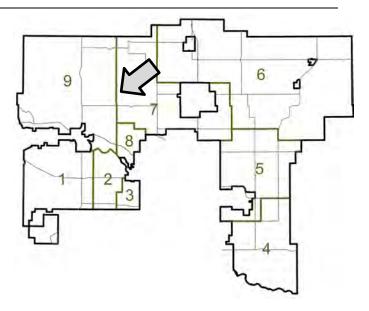
APPLICATION: construction of a dwelling, single detached within the top of bank setback requirement

GENERAL LOCATION: Located approximately 0.81 km (1/2 mile) south of Twp. Rd. 274 and on the east side of Hwy. 766).

LAND USE DESIGNATION: Residential, Rural District (R-RUR p4.0) under Land Use Bylaw C-8000-2020.

ADMINISTRATION RECOMMENDATION:

Administration recommends Approval in accordance with Option #1.



VARIANCE SUMMARY:

Variance	Requirement	Proposed	Percentage (%)
Setback from Top-of-Bank	20.00 m (65.62 ft.)	4.25 m (13.94 ft.)	79.00%

OPTIONS:

- Option #1: THAT Development Permit Application PRDP20202964 be approved with the conditions noted in the Development Permit Report, attached.
- Option #2: THAT Development Permit Application PRDP20202964 be refused as per the reasons noted.

AIR PHOTO & DEVELOPMENT CONTEXT:





DEVELOPMENT PERMIT REPORT

Application Date: September 25, 2020	File: 07723018
Application: PRDP20202964	Applicant/Owner: Sheila Nielson & David Rudisuela
Legal Description: Lot 6, Block 3, Plan 191 2391; SW-23-27-03-W5M	General Location: Located approximately 0.81 km (1/2 mile) south of Twp. Rd. 274 and on the east side of Hwy. 766)
Land Use Designation: Residential, Rural District (R-RUR p4.0) under Land Use Bylaw C-8000-2020.	Gross Area: ± 4.29 hectares (± 10.60 acres)
File Manager: Christina Lombardo	Division: 7

PROPOSAL:

The proposal is for the construction of a dwelling, single detached, with a variance of the setback from the top-of-bank slope and single-lot regrading. *Note: this application was assessed in accordance with Land Use Bylaw C-8000-2020.*

- This application is for the construction of a Bungalow with a walkout basement and an attached garage on an undeveloped site.
- Variance requested to relax building setback from the top-of-bank of an escarpment; from 20.00 m (65.61 ft.) to 4.25 m (13.94 ft.), a variance of 79.00%.
- Proposed Slopes do not exceed 15%; Slope Stability Assessment was completed by E2K Engineering Ltd. (Project# 2020-5494) dated September 21, 2020.
- Dwelling will be serviced by a Water Well and Septic field located on the West of the parcel
- Any single lot regrading required related to the construction of the dwelling shall comply with Table 2; Development Not Requiring a Development Permit from the Land Use Bylaw. No variances were requested.

Section 321 MAXIMUM BUILDING HEIGHT:

b) All others: 12.00 m (39.37 ft.)

• Proposed: 10.13 m (33.23 ft.)

Section 323 MINIMUM SETBACKS:

Front Yard: 60.00 m. (196.85 ft.)

• Proposed: lots

Side Yard: 15.00 m. (49.21 ft.)

- Proposed North Side: 15.62 m (51.25 ft.)
- Proposed South Side: 92.33 m. (302.92 ft.)

Rear Yard: 30.00 m. (98.43 ft.)

• Proposed: 37.89 m. (124.31 ft.)



SETBACKS FROM SLOPES AND BANKS

Section 189 Buildings shall be located at least 20.00 m (65.62 ft.) back from the top-of-bank of an escarpment where the grade exceeds fifteen per cent (15%), as illustrated in Figure 2 – Setback Requirements.

- The Applicant has requested a setback of 4.25 m (13.94 ft.)
- The noted Slope Stability Assessment was reviewed by Administration and no evidence of slope instability was observed. As a condition of this application, the Applicant/Owner shall follow the recommendations of the slope stability assessment in perpetuity.
- Section 190 The Development Authority may, at their discretion, reduce the setback requirements if the applicant provides a Geotechnical Study, prepared by a qualified engineer, that provides satisfactory proof of bank stability.
 - As the application has supporting technical, Administration is satisfied with the bank stability

STATUTORY PLANS:

The subject parcel does not fall within any area structure plan or conceptual scheme; therefore the application was assessed in accordance with the Land Use Bylaw.

INSPECTOR'S COMMENTS:

Inspection: October 20, 2020

- Site has been staked, appears to be heavily sloped
- Hobby Garden is present
- No construction has begun

CIRCULATIONS:

Alberta Transportation (October 30, 2020)

- In reviewing the application, the proposed development falls within the control distance of a provincial highway as outlined in the Highways Development and Protection Act / Regulation, and will require a roadside development permit from Alberta Transportation.
- The application form and instructions can be obtained from the department's website at https://www.alberta.ca/roadside-development-permits.aspx.

Planning & Development Services (Engineering Review (November 6, 2020)

General:

 The review of this file is based upon the application submitted. These conditions/recommendations may be subjected to change to ensure best practices and procedures.

Geotechnical - Section 300.0 requirements:

- Applicant provided a slope stability assessment, prepared by E2K Engineering Ltd., dated September 21, 2020. As per the slope stability assessment, no evidence of slope instability was observed on site. The risk related to slope stability issues is very little where the proposed house will be built. The report provided recommendations based on the slope stability assessment.
- As a permanent condition, the applicant shall follow the recommendations of the slope stability assessment in perpetuity.



ROCKY VIEW COUNTY

Transportation - Section 400.0 requirements:

- Access to the subject lot and proposed development is provided by a shared driveway off Highway 766. Access Easements are present on title, instrument #891 243 196 and 191 247 330.
- This is unlikely to increase traffic on local road networks. Traffic Impact Assessment and Transportation off-site levy will be deferred at this time.

Sanitary/Waste Water - Section 500.0 requirements:

- Proposed development will be serviced by a septic field.
- Engineering has no requirements at this time

Water Supply And Waterworks - Section 600.0 & 800.0 requirements:

- Proposed development will be serviced by a water well.
- Engineering has no requirements at this time

Storm Water Management – Section 700.0 requirements:

- No significant increase in site runoff is expected as a result of the proposed development.
- Engineering has no requirements at this time.

Environmental – Section 900.0 requirements:

 Based on County's GIS review, a wetland is present on site. Should the applicant propose development that has a direct impact on any wetlands, the applicant will be responsible for obtaining all required AEP approvals

OPTIONS:

Option #1 (this would allow the development to commence)

APPROVAL, subject to the following conditions:

Description:

- 1. That construction of a dwelling, single detached may commence on the subject parcel, (Lot 6, Block 3, Plan 191 2391 within SW-23-27-03-W5M) in general accordance with the application drawings and site plan prepared by Cincel Design Studio, dated September 2, 2020 (Project No. 20-871) including:
 - i. That the top-of-bank setback requirement is **relaxed from 20.00 m (65.62 ft.) to 4.25 m (13.94 ft.)**
 - ii. Single-lot regrading and placement of clean fill;

Prior to Issuance:

- That prior to issuance of this development permit, the applicant shall confirm acceptance of or refusal to participate in the Voluntary Recreation Contribution for Community Recreation Funding on the form provided by the municipality and that the contribution, if accepted, is \$800.00, calculated at \$800.00 for each new residential unit.
- 3. That prior to issuance of this permit, the Applicant/Owner shall contact County Road Operations with haul details for materials and equipment needed during construction/site development to confirm if Road Use Agreements will be required for any hauling along the County road system and to confirm the presence of County road ban restrictions



i. Written confirmation shall be received from County Road Operations confirming the status of this condition. Any required agreement or permits shall be obtained unless otherwise noted by County Road Operations.

Permanent:

- 4. That any plan, technical submission, agreement, matter or understanding submitted and approved as part of the application, shall be implemented by the Applicant/Owner and adhered to in perpetuity including the recommendations of the Slope Stability Assessment, as prepared by E2K Engineering Ltd. (Project# 2020-5494), dated September 21, 2020.
- 5. That upon completion of the proposed development, the Applicant/Owners shall submit an asbuilt survey, confirming that the development proposal and post grades align with the supporting technical submissions for the file.
- 6. That the Applicant/Owner shall submit compaction testing results, prepared and provided by a qualified professional, for any areas of the site filled greater than 1.20 m (3.93 ft.) in depth.
- 7. That there shall be no more than 1.00 m (3.28 ft.) of fill placed or 2.00 m (6.56 ft.) of excavated materials adjacent to or within 15.00 m (49.21 ft.) of the proposed dwelling unit that is used to establish approved final grades unless a Development Permit has been issued for additional.
- 8. That it is the Applicant/Owner's responsibility to obtain and display a distinct municipal address in accordance with the County Municipal Addressing Bylaw (Bylaw C-7562-2016), for the dwelling unit located on the subject site, to facilitate accurate emergency response.

Note: The municipal address for the 273056 Lochend Road

- 9. That the Applicant/Owner shall not screen and/or sell the excess topsoil to others without written approval from the County, as there is potential for additional off-site impacts.
- 10. That the Applicant/Owner shall take effective measures to control dust in the area so that dust originating therein shall not cause annoyance or become a nuisance to adjoining property owners and others in the vicinity of the area.
- 11. That the fill shall not contain large concrete, rebar, asphalt, building materials, organic materials, or other metal.
- 12. That any fill removed from the site shall be hauled off in a covered trailer/truck, which will prevent blowing of dust/small rocks onto the road or cause issues with other vehicles on the road.
- 13. That with the removal of topsoil, the Applicant shall take whatever means necessary to avoid the transfer of dirt onto public roadways.
 - i. That if at any time the removal or handling of the topsoil creates a visible dust problem, the removal or handling of the topsoil shall cease immediately until remedial measures are taken.
- 14. That after completion of the regrading and/or placement of the fill, the disturbed area (if not developed) shall have a minimum of six inches of topsoil placed on top, which shall then be landscaped.
- 15. That pervious landscaping (i.e. sod) shall be provided at the rear of the property to enhance and maximize absorption of rainwater to prevent the transfer of overland flows to adjacent properties.
- 16. That the Applicant/Owner shall be responsible for rectifying any adverse effect on adjacent lands from drainage alteration.



17. That the entire site shall be maintained in a neat and orderly manner at all times to the satisfaction of the County.

Advisory:

- 18. That the site shall adhere to the approved Weed Management Plan and shall remain free of restricted and noxious weeds and be maintained in accordance with the Alberta Weed Control Act [Statutes of Alberta, 2008 Chapter W-5.1; Current as of December 15, 2017].
- 19. That the subject development shall conform to the County's Noise Bylaw C-5773-2003 in perpetuity.
- 20. That during construction, all construction and building materials shall be maintained on-site in a neat and orderly manner. Any debris or garbage shall be stored/placed in garbage bins and disposed of at an approved disposal facility.
- 21. That the Applicant/Owner shall adhere to the regulations of the registered Access Easements, instruments #891 243 196 and 191 247 330 at all times.
- 22. That a Building Permit and applicable subtrade permits shall be obtained through Building Services, prior to any construction taking place.
- 23. That any other government permits, including a Roadside Development Permit through Alberta Transportation, approvals, or compliance is the sole responsibility of the Applicant/Owner.
- 24. That if the development authorized by this Development Permit is not commenced with reasonable diligence within 12 months from the date of issue, and completed within 24 months of the issue, the permit is deemed to be null and void, unless an extension to this permit shall first have been granted by the Development Officer.
- 25. That if this Development permit is not issued by **MAY 31, 2021** or the approved extension date, then this approval is null and void and the Development Permit shall not be issued.

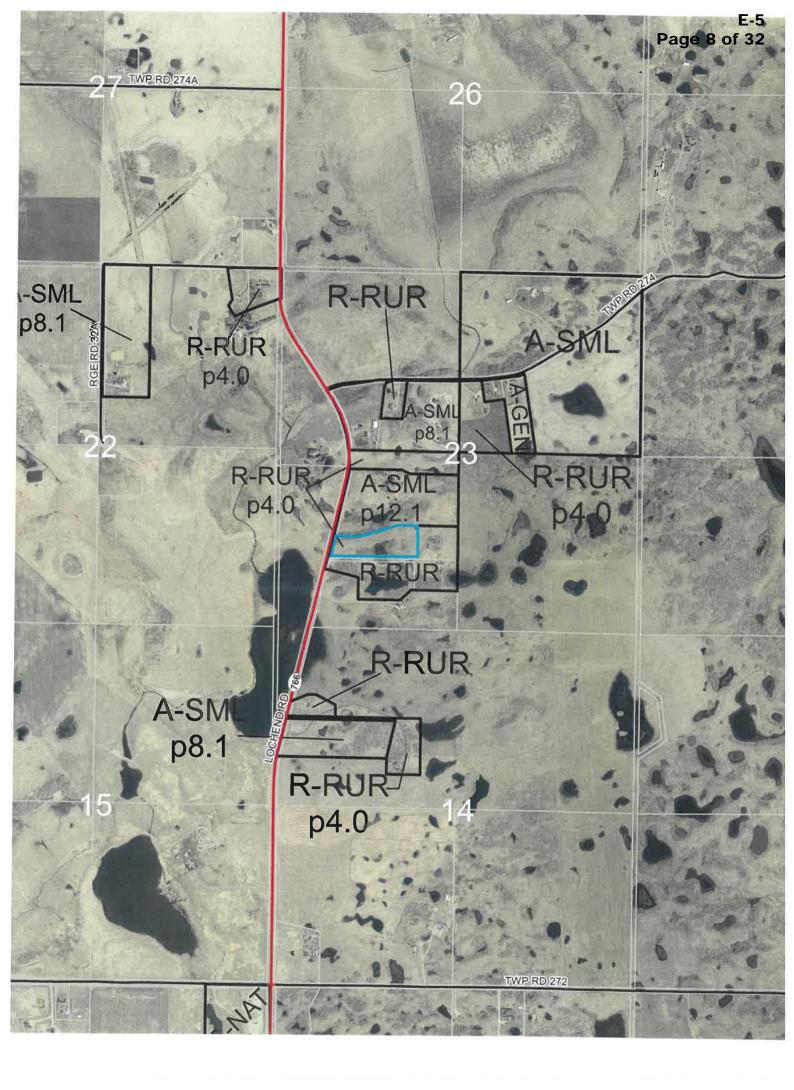
Note: The Applicant/Owner shall be responsible for all Alberta Environment & Parks (AEP) approvals for any impact to any wetland areas from the proposed development.

Option #2 (this would not allow the development to commence)

REFUSAL, for the following reasons:

1. That in the opinion of the Municipal Planning Commission, the development unduly interferes with the amenities of the neighbourhood and materially interferes with and affects the use, enjoyment, and value of neighbouring parcels of land.





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ROCKY VIEW COUN	APPLICATION NO. 20202964						
			ROLL NO.	0772	2301	8	
DEVELOPMENT PERMIT			RENEWAL OF				
			FEES PAID	319	5.00	-	
	DATE OF RECEIPT	Sto	- 25	120			
APPLICANT/OWNER							
Applicant Name: SHEILA NIEL	EN/DAVID	RUDISUELA	Email:				
Business/Organization Name (if applicab	le):		-				
Landowner Name(s) per title (if not the A	oplicant):						
Business/Organization Name (if applicab							
Mailing Address:				Postal Co	de:		
Telephone (Primary):		Email:					
LEGAL LAND DESCRIPTION - Subject	site						
	ownship: 27	Range: 3	West of: 5	Meridian	Division:		
	ock: 3	Plan: 19/239/			e (acha):	105	
Municipal Address: 273056 Loc	-		Land Use Distri		e laona). /	0.3	
APPLICATION FOR - List use and scope			Land Use Disti				
HOUSE BUILD	, or work						
HOUSE DUILD						-	
Variance Rationale included: X YES			DP Checklis	t Included:	17 VEC		
SITE INFORMATION			DF Oliecking	se included.	JA TES		
a. Oil or gas wells present on or with	nin 100 metres of	f the subject prope	erty(s)			X NO	
b. Parcel within 1.5 kilometres of a s			ant)		C YES	X NO	
 c. Abandoned oil or gas well or pipe (Well Map Viewer: https://extmapyie 			lev html)			NO 🕅	
d. Subject site has direct access to				dway)	YZ YES		
AUTHORIZATION				0.01	-		
SHEILA NIELSEN		(Full name in Bloc	k Capitals), here	by certify (initial below	Ŋ.	
That I am the registered owner O						.,.	
That the information given on th	R That I			P PP WEITHER IT			
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knowledge, a true statement of th	nis form and rela	ated documents, i		ete and is,	to the bes	st of my	
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262075 Rocky View Point, Rocky View County, AB, T4A 0X2

Development Permit Application - Updated August 2020

September 24, 2020

Sheila Nielsen & David Rudisuela 265215 Range Road 24A Rocky View County, AB T4B 5A2

Scope of work – 273056 Lochend Road

We are planning on building a house and attached garage on our land. It is a bungalow with a walk out basement. We are building the house on a slope to accommodate the walk out basement. The house will not be 20m back from a 15% or greater slope as referenced in section 189 of the Land Use Bylaw.

We hired E2K Engineering Ltd. to do a Slope Stability Assessment and they determined that no instability should occur in the area we want to build. This report is included in the Development Permit application package we have submitted.

We are also including photos of the area, site plan and house plans including elevations in the application package.

Thank you.

Sheila Nielsen

David Rudisuela



September 21, 2020

Project Number: 2020-5494

Sheila Nielsen

ATTENTION: MS. SHEILA NIELSEN

Re: Slope Stability Assessment 273056 Lochend Road Rocky View County, Alberta

As requested, E2K Engineering Ltd. (E2K) completed a slope stability assessment for a proposed edification to be built in the north-east area of the property located at the above-noted address. The proposed edification will consist of a single-family dwelling with an attached garage and walk-out basement. It is understood that the total area of the property, where this edification will be located, is 10.6 acres.

The Rocky View County requires a Slope Stability Analysis, completed by a Geotechnical Engineer, for slopes 15% or greater, and greater than 2 meters in vertical.

The objective of this slope stability assessment will be to confirm the stability of the slope, confirm if this area can be considered for residential development and provide preliminary setback limits.

FIELD INSPECTION AND ASSESSMENT

The subject site is located at approximately 27 Kilometers north-east to Cochrane, Alberta. At the time this assessment was completed, this site was vacant.

Based on available drawings of this property, the area where the new house will be built slopes gently downwards from the north-east property limit to a pond located at the center of the property, with an elevation difference of approximately 12.0 m.

A field inspection was completed on this site by Miguel Ardin Medina, P.Eng. on September 10, 2020. The purpose of this inspection was to evaluate the conditions of the existing slopes in this property in the area where the proposed edification will be built and identify any evidence related to slope instability.

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Prior to this site inspection, all available project documents and other publicly available information were reviewed to gain a more thorough understanding of the area.

The following drawings, prepared by Cincel Design Studio and issued on September 2nd, 2020, were reviewed by E2K:

- A1.0 SITE PLAN
- A2.0 BASEMENT FLOOR PLAN
- A2.1 MAIN FLOOR PLAN
- A2.2 ROOF PLAN
- A3.0 ELEVATIONS
- A3.1 ELEVATIONS
- A4.0 SECTIONS

The field inspection of the existing slope included ground-based observations. Field observations enabled the characterization of soil activity, potential instability and information on surficial material, vegetation, and weak zones.

At the time of the inspection, the ground was free of snow in the entire property. No evidence of slope instability was observed. The slope appeared to be well-vegetated with shrubs and tall grass. No seepage or signs of surface water were observed on the slope. No scarps or tension cracks were observed. No signs of slope instability were observed at the neighbouring properties either.

SLOPE STABILITY

Based on the elevations shown in the drawings mentioned above, the worst-case slopes on the footprint area of the proposed residence will be located crossing this edification from north-east to south-west. Two sections were assessed from this area with a maximum total grade change of 10-12 meters. The cross-sections and the results of the stability analysis for these slopes are shown in Figures 1, 2 and 3.

Conservative soil parameters were utilized for the soils in this area with assumptions of clayey silty material with a 26-degree friction angle, no cohesion and an 18 kN/m3 unit weight. For the subject slope stability analysis, groundwater conditions have been inferred to be at the approximate elevation of the water at the existing pond. No increase in the groundwater elevation is anticipated to occur as a result of the proposed development.

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Based on the analysis completed as shown in Figures 2 and 3, the slopes in the area were this proposed dwelling will be constructed will have a minimum Factor of Safety against instability of 2.39. A surcharge load of 100 MPA has been considered for the area within the footprint of the proposed house and 10 MPA for the garage and walkout access areas.

It is E2K's professional opinion that due to the anticipated soil conditions and the geometry of the subject slopes, there is a very little risk of slope stability issues in the area of this property where the proposed house will be built, as shown in the drawing A1.0 "Site Plan" prepared by Cincel Design Studio. A minimum global slope stability factor of 2.39 was found for the worst-case scenario. All of the other slopes on the subject site were lesser elevation change and shallower grades

Based on the slope stability analysis performed, the following recommendations are provided:

- Where vegetation is to be removed, re-vegetation of the slope with shrubs or trees is recommended;
- No additional fill or surcharge not included in the assessment should be added to the crest of the slopes;
- Cut slopes during construction should be remediated as per grades on development plot plan. Leaving cut slopes open post-construction is not recommended and may cause slope instability;
- The owner should monitor the slope for signs of movement during and after construction of the structure, and where movement occurs, contact a qualified professional to provide recommendations.

CLOSURE

Based on the observed slopes and the anticipated soils, a minimum factor of 2.39 can be expected for all the slopes in the area where this proposed residence will be built, which is considered by E2K as acceptable and satisfies the current standard accepted by Alberta Environment and other municipalities. This area can be considered for residential development and no preliminary setback should be considered for limits.

Based on the available information, an E2K's experience working in the subject area, no instability should occur within the property. Should conditions other than those reported herein be identified at any stage of development, E2K should be notified immediately and given the opportunity to reevaluate current information, if required. We trust the information contained herein meets your present requirements. Should you require further information, please do not hesitate to contact our office.

Yours Truly; E2K Engineering Ltd. APEGA Permit to Practice: P9582



September 21, 2020 Prepared by: Miguel Ardin Medina, P.Eng. Project Geotechnical Engineer

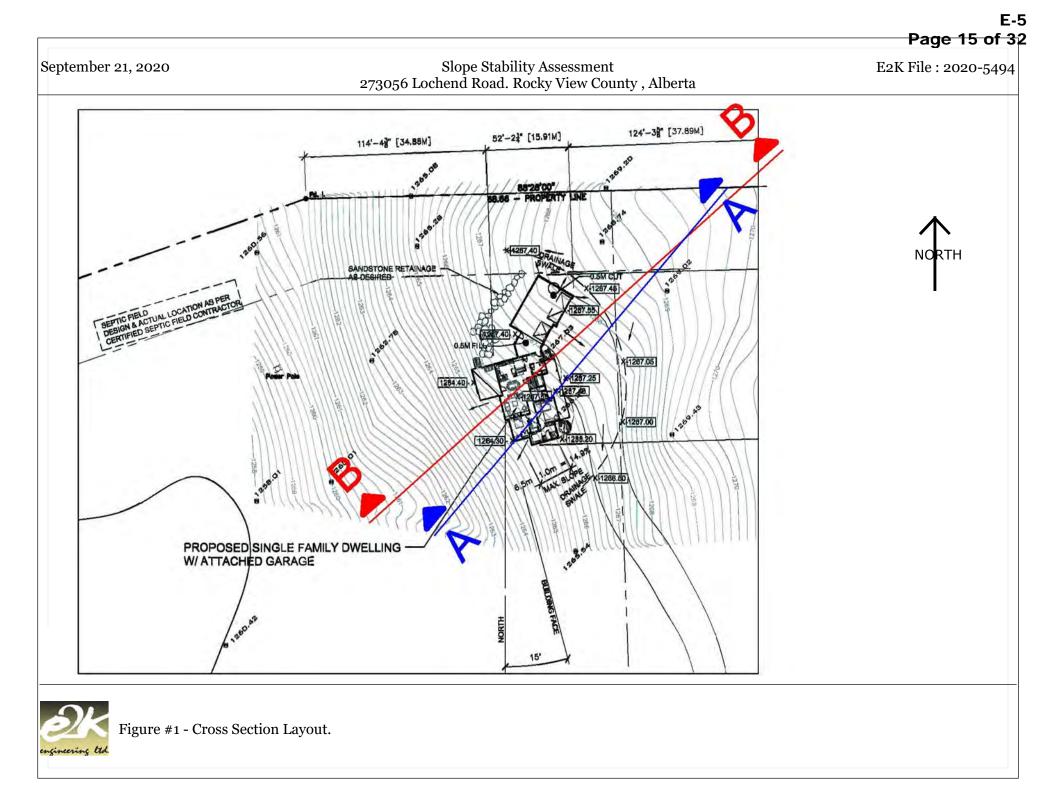
Attachments,

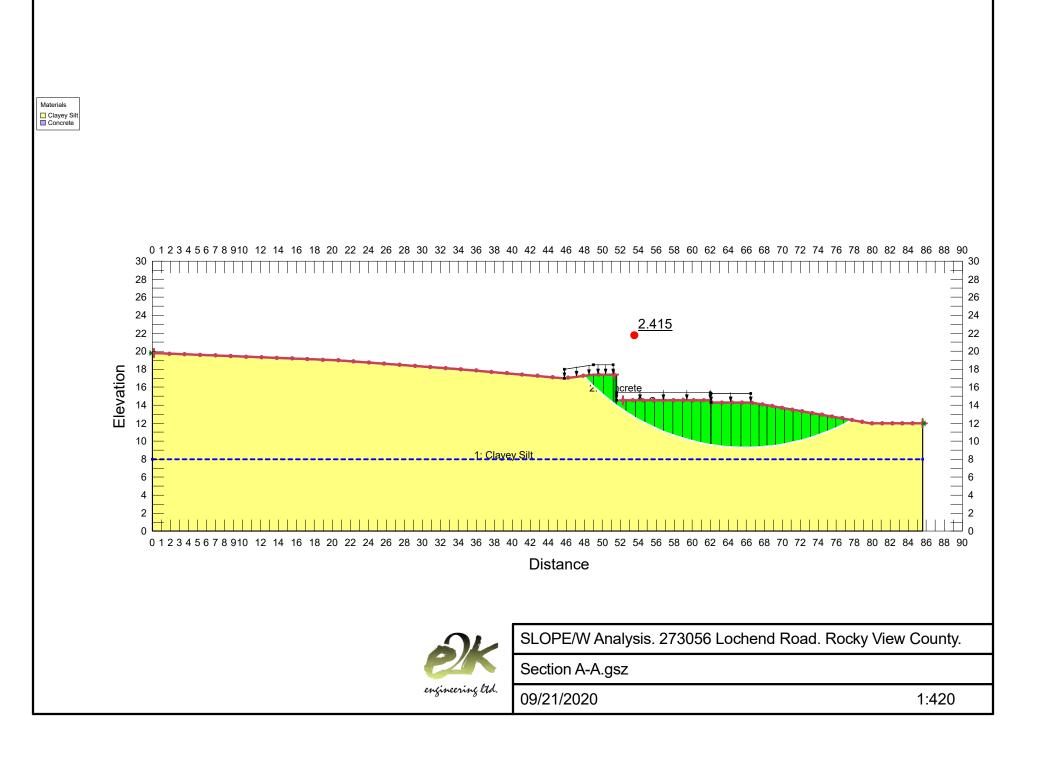
- Figure 1. Cross Sections Layout.
- Figure 2. Slope Stability Analysis. Section A-A
- Figure 3. Slope Stability Analysis. Section B-B

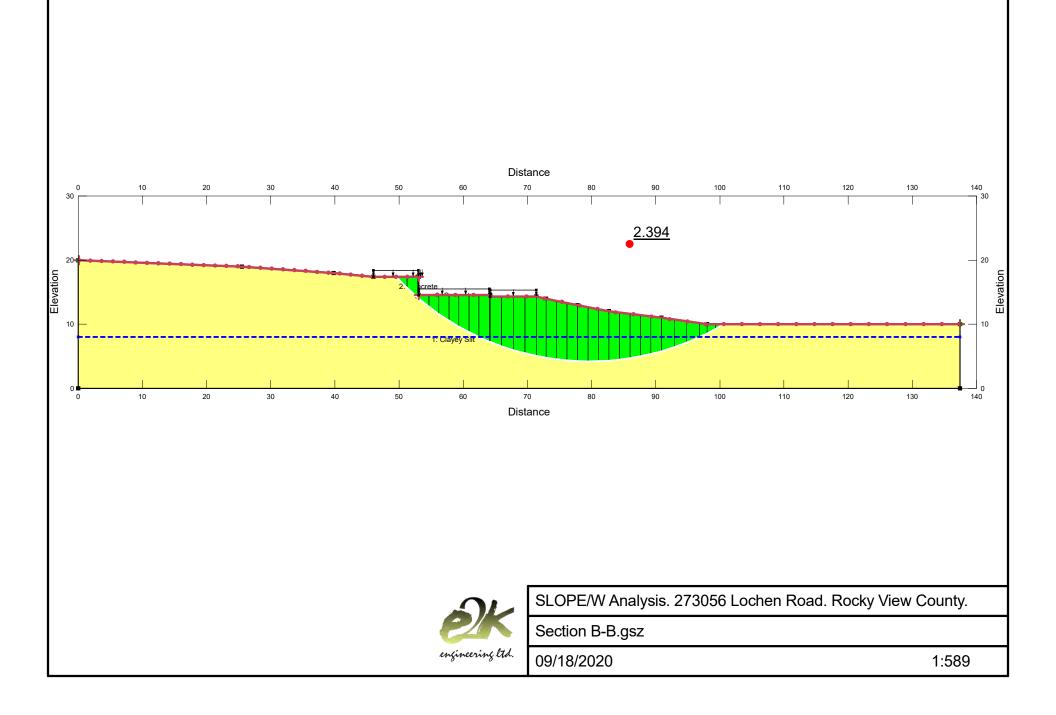
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LAND TITLE CERTIFICATE

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LINC	SHORT LEGAL	TITLE NUMBER
0038 504 157		201 088 260
LEGAL DESCRIPT:	ION	
PLAN 1912391		
BLOCK 3		
LOT 6		
	SOUT ALL MINES AND MINERALS	
AREA: 4.29 HEC.	TARES (10.6 ACRES) MORE OR LESS	
ESTATE: FEE SIN		
ATS REFERENCE:		
	-,-,-,-,	
MUNICIPALITY: F	ROCKY VIEW COUNTY	
REFERENCE NUMBE	ER: 191 247 326 +2	
	REGISTERED OWNER(S)	
	DATE (DMY) DOCUMENT TYPE VALUE	
201 088 260 1	11/05/2020 TRANSFER OF LAND \$405,000	\$405 000
	1703,2020 INMOLEK OF LEND \$405,000	\$403,000
OWNERS		
DAVID RUDISUELA	A	
AND		
SHEILA NIELSEN		
BOTH OF:		
AS JOINT TENANT	• 'S	
	-	
	ENCUMBRANCES, LIENS & INTERESTS	
REGISTRATION		
	TE (D/M/Y) PARTICULARS	
851 075 153 0	9/05/1985 UTILITY RIGHT OF WAY	
	GRANTEE - COCHRANE LAKE GAS CO-O	PLTD.

(CONTINUED)

ENCUMBRANCES, LIENS & INTERESTS PAGE 2 REGISTRATION # 201 088 260 NUMBER DATE (D/M/Y) PARTICULARS _____ 891 243 196 20/11/1989 EASEMENT OVER AND FOR BENEFIT OF (SEE INSTRUMENT) (PORTION DESCRIBED IN INSTRUMENT) 191 247 330 05/12/2019 EASEMENT OVER AND FOR BENEFIT: SEE INSTRUMENT 201 055 827 19/03/2020 CAVEAT RE : UTILITY RIGHT OF WAY CAVEATOR - FORTISALBERTA INC. AGENT - LOGAN MURIAS.

TOTAL INSTRUMENTS: 004

THE REGISTRAR OF TITLES CERTIFIES THIS TO BE AN ACCURATE REPRODUCTION OF THE CERTIFICATE OF TITLE REPRESENTED HEREIN THIS 25 DAY OF SEPTEMBER, 2020 AT 01:49 P.M.

ORDER NUMBER: 40194961

CUSTOMER FILE NUMBER:



E-5

END OF CERTIFICATE

THIS ELECTRONICALLY TRANSMITTED LAND TITLES PRODUCT IS INTENDED FOR THE SOLE USE OF THE ORIGINAL PURCHASER, AND NONE OTHER, SUBJECT TO WHAT IS SET OUT IN THE PARAGRAPH BELOW.

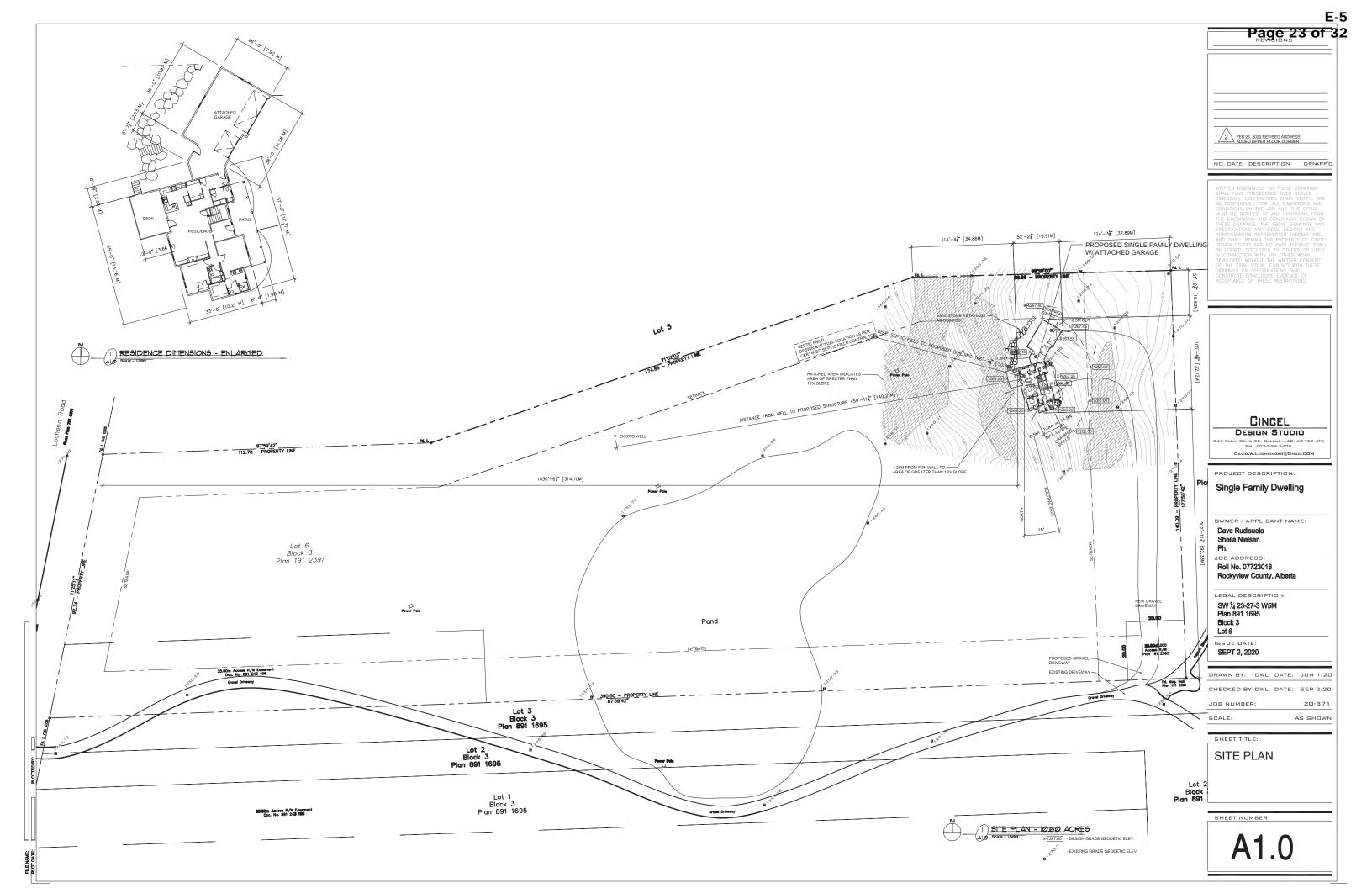
THE ABOVE PROVISIONS DO NOT PROHIBIT THE ORIGINAL PURCHASER FROM INCLUDING THIS UNMODIFIED PRODUCT IN ANY REPORT, OPINION, APPRAISAL OR OTHER ADVICE PREPARED BY THE ORIGINAL PURCHASER AS PART OF THE ORIGINAL PURCHASER APPLYING PROFESSIONAL, CONSULTING OR TECHNICAL EXPERTISE FOR THE BENEFIT OF CLIENT(S).

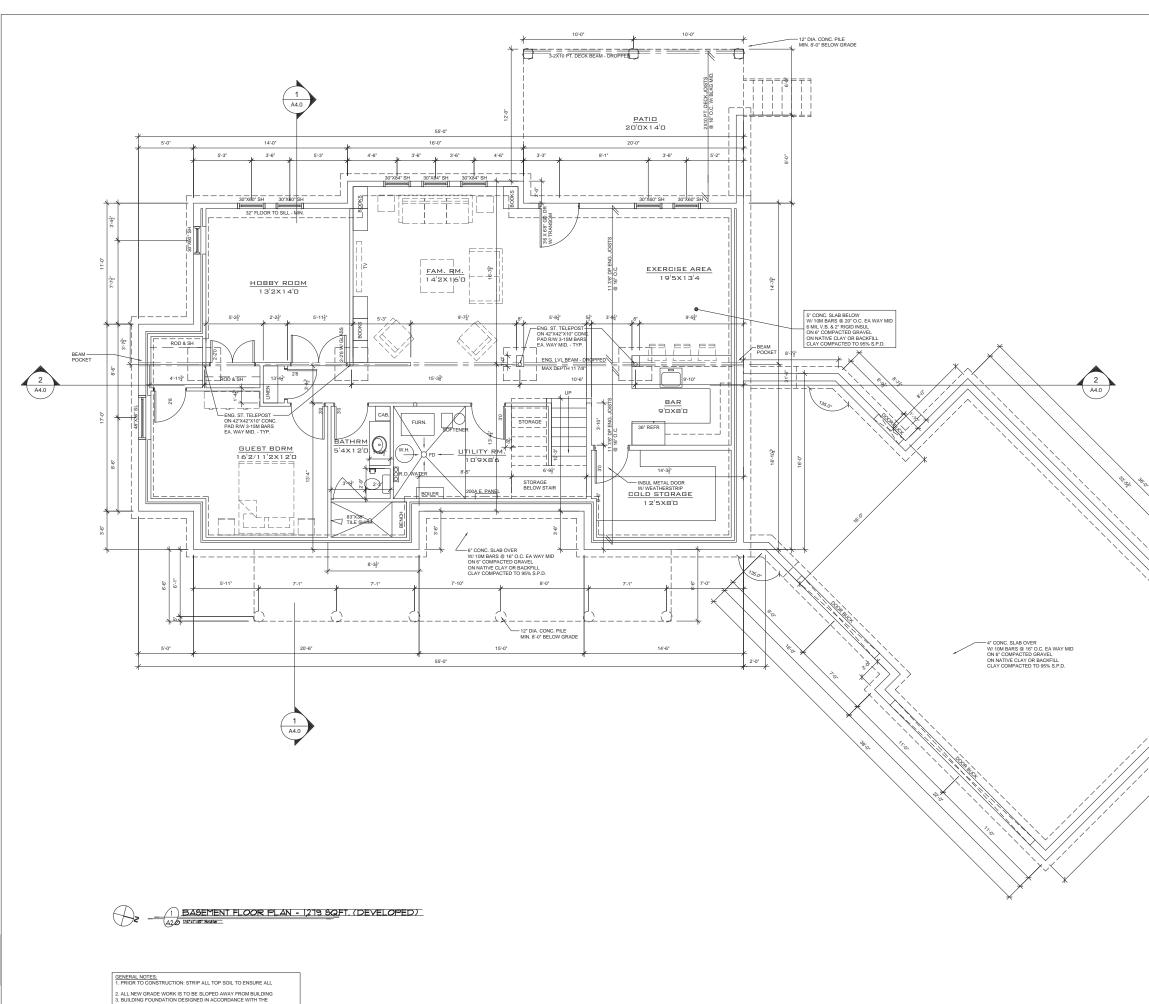








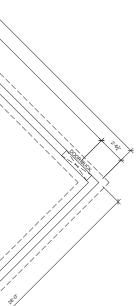


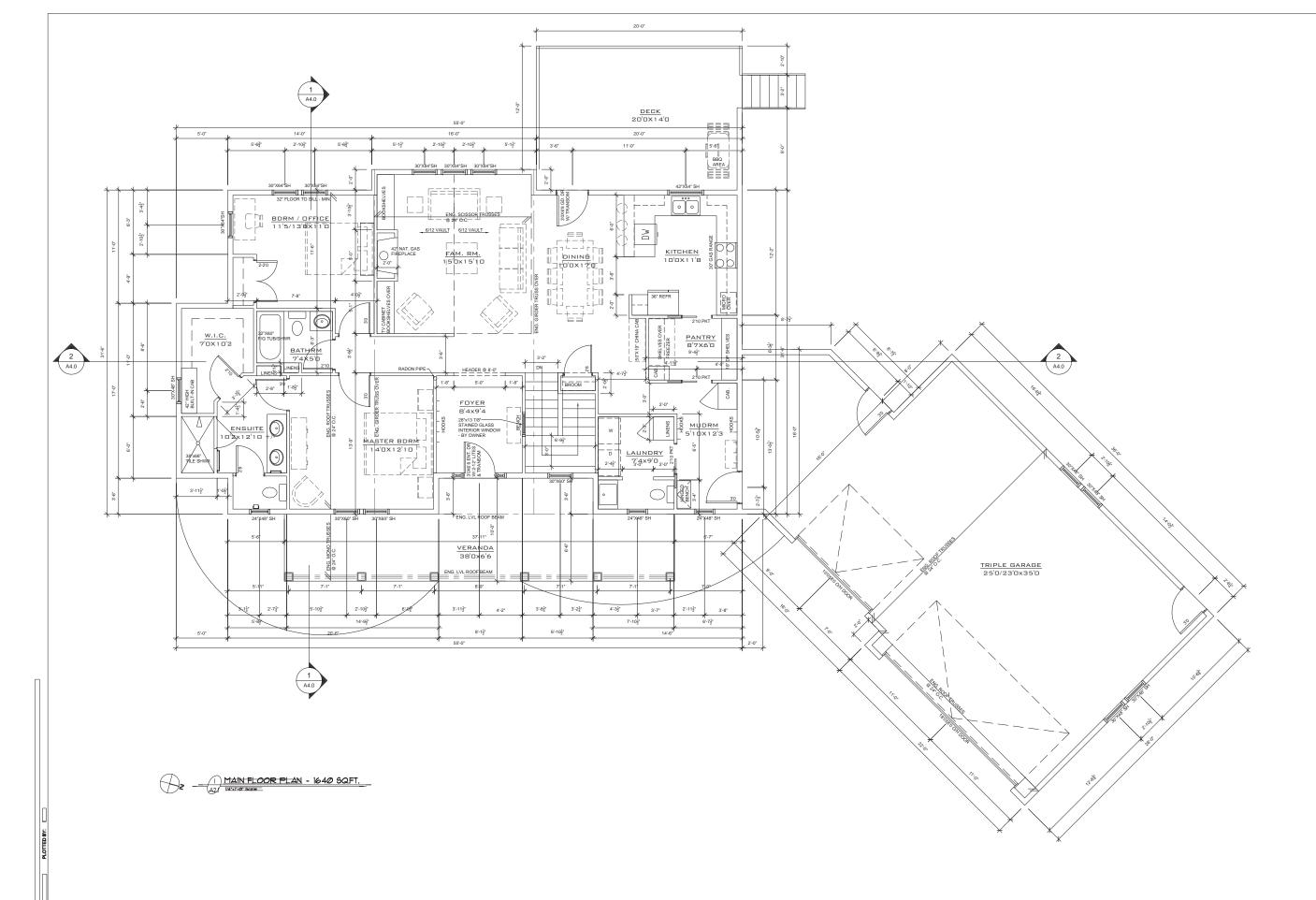


3. BUILDING FOUNDATION DESIGNED IN ACCORDANCE WITH THE 4. FOUNDATION DESIGN BASED ON A SOIL BEARING PRESSURE OF 3000 psf FOR A CONFINED FOOTING IN COMPACT GRAVEL, SAND OR SILT

J
NO. DATE DESCRIPTION DRNAPP'D
WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSION: CONTRACTORS SHALL VERIFY, AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. THE ABOVE DRAWINGS AND SPECIFICATIONS AND IDAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE FROPERTY OF CINCLL DE COPIED. DISCLOSED TO OTHERS OR SPECI IN CONNECTION WITH ANY OTHER WORK DEVELOPED WITHOUT THE WRITEN CONSENT OF THE FIRM. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.
DESIGN STUDIO 345 ELOIN GONS EE, CALGARY, AB, AB T2Z 4T5 PH: 403-593-478 DAVID.W.LUCHSINGE®@MAIL.COM PROJECT DESCRIPTION: Single Family Dwelling
OWNER / APPLICANT NAME:
Dave Rudisuela Sheila Nielsen
Ph: JOB ADDRESS:
Roll No. 07723018 Rockyview County, Alberta
LEGAL DESCRIPTION: SW 1/4 23-27-3 W5M
Plan 891 1695 Block 3
Lot 6
ISSUE DATE: SEPT 2, 2020
DRAWN BY: DWL DATE: JUN 1/20
CHECKED BY: DWL DATE: SEP 2/20
JOB NUMBER: 20-871
SCALE: AS SHOWN
SHEET TITLE:
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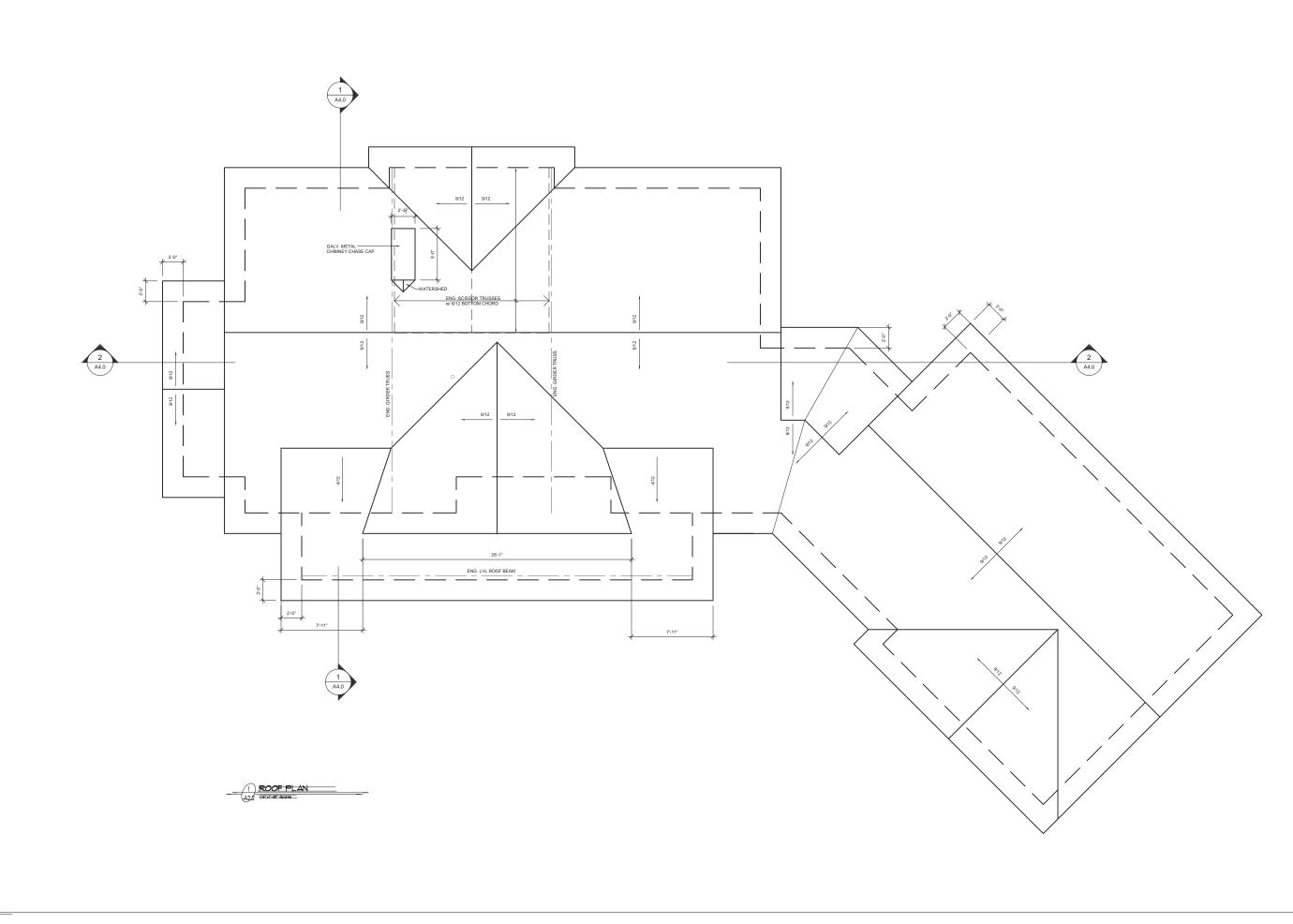
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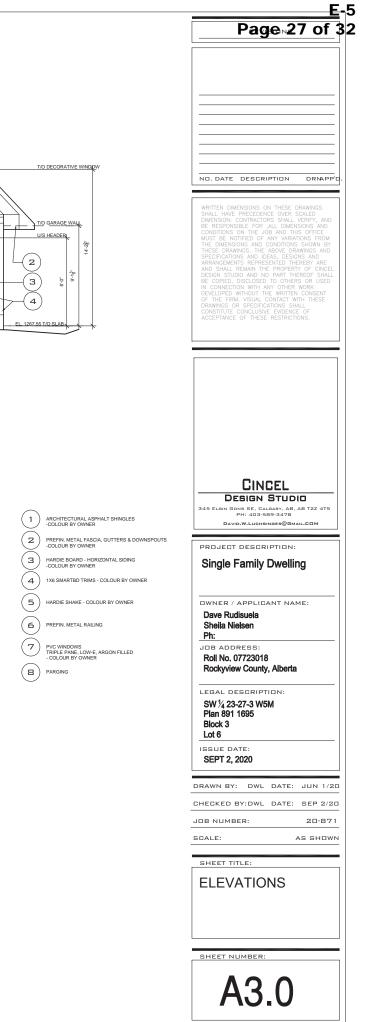
Page 25 of 3
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CINCEL
DESIGN STUDIO
345 ELGIN GDNS SE, CALGARY, AB, AB T2Z 4T5 PH: 403-589-3478
DAVID.W.LUCHSINGER@GMAIL.COM
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Single Family Dwelling
OWNER / APPLICANT NAME:
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CHECKED BY:DWL DATE: SEP 2/20 JOB NUMBER: 20-871 SCALE: AS SHOWN SHEET TITLE: MAIN FLOOR PLAN
CHECKED BY:DWL DATE: SEP 2/20 JOB NUMBER: 20-871 SCALE: AS SHOWN SHEET TITLE:
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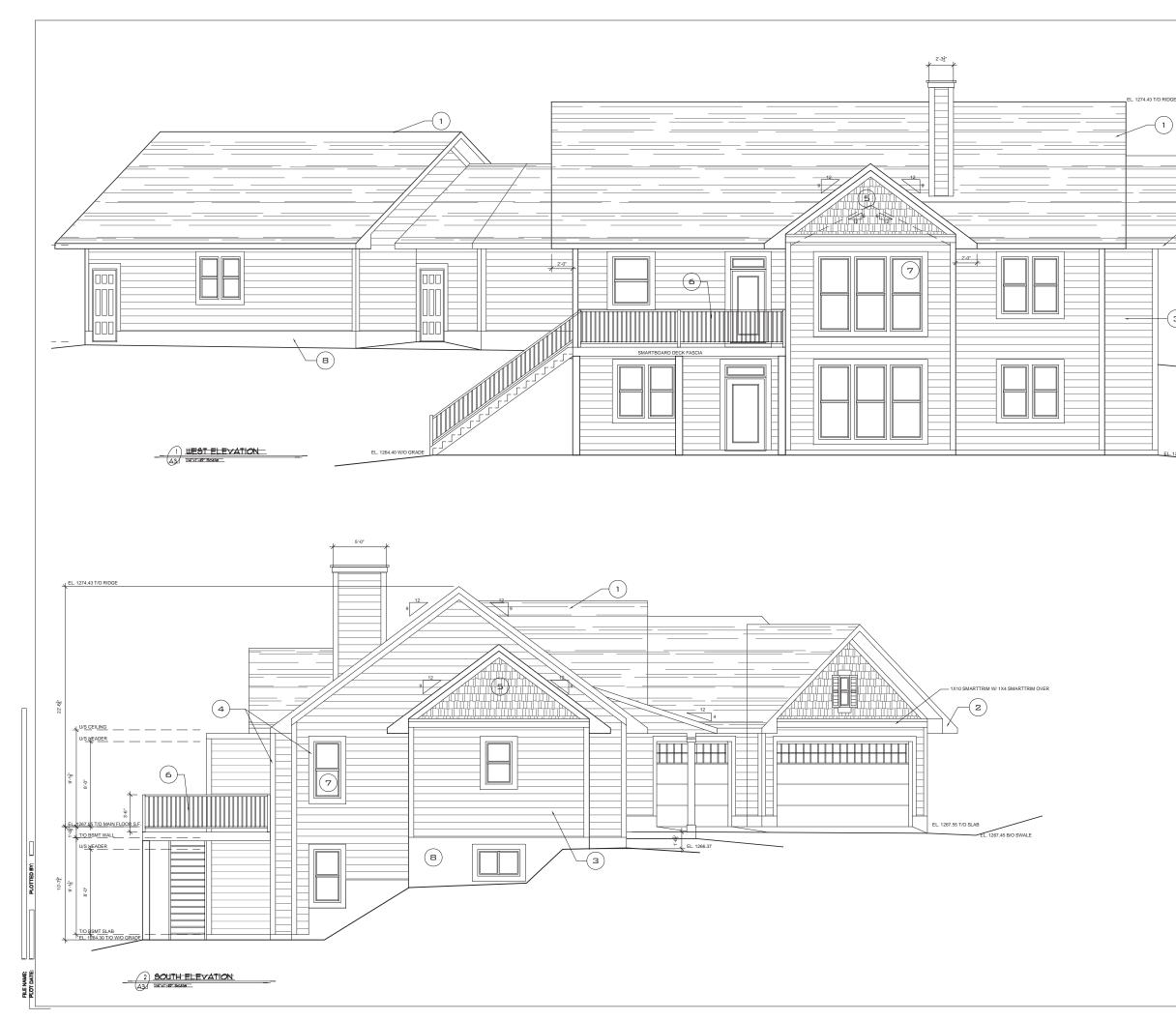


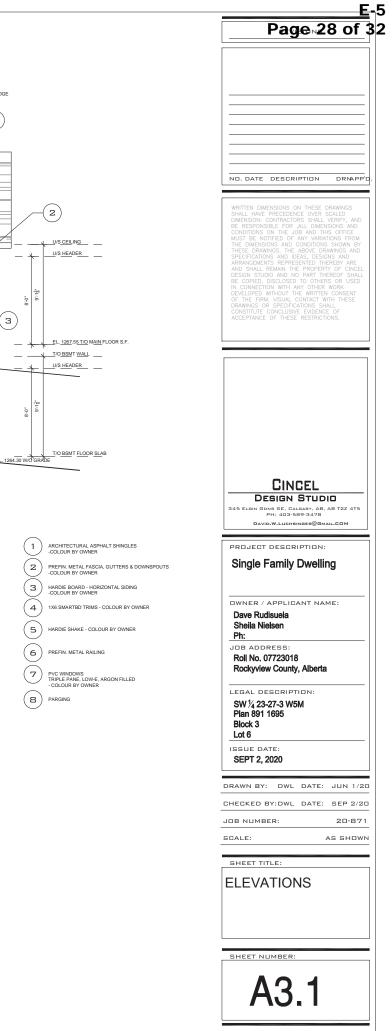
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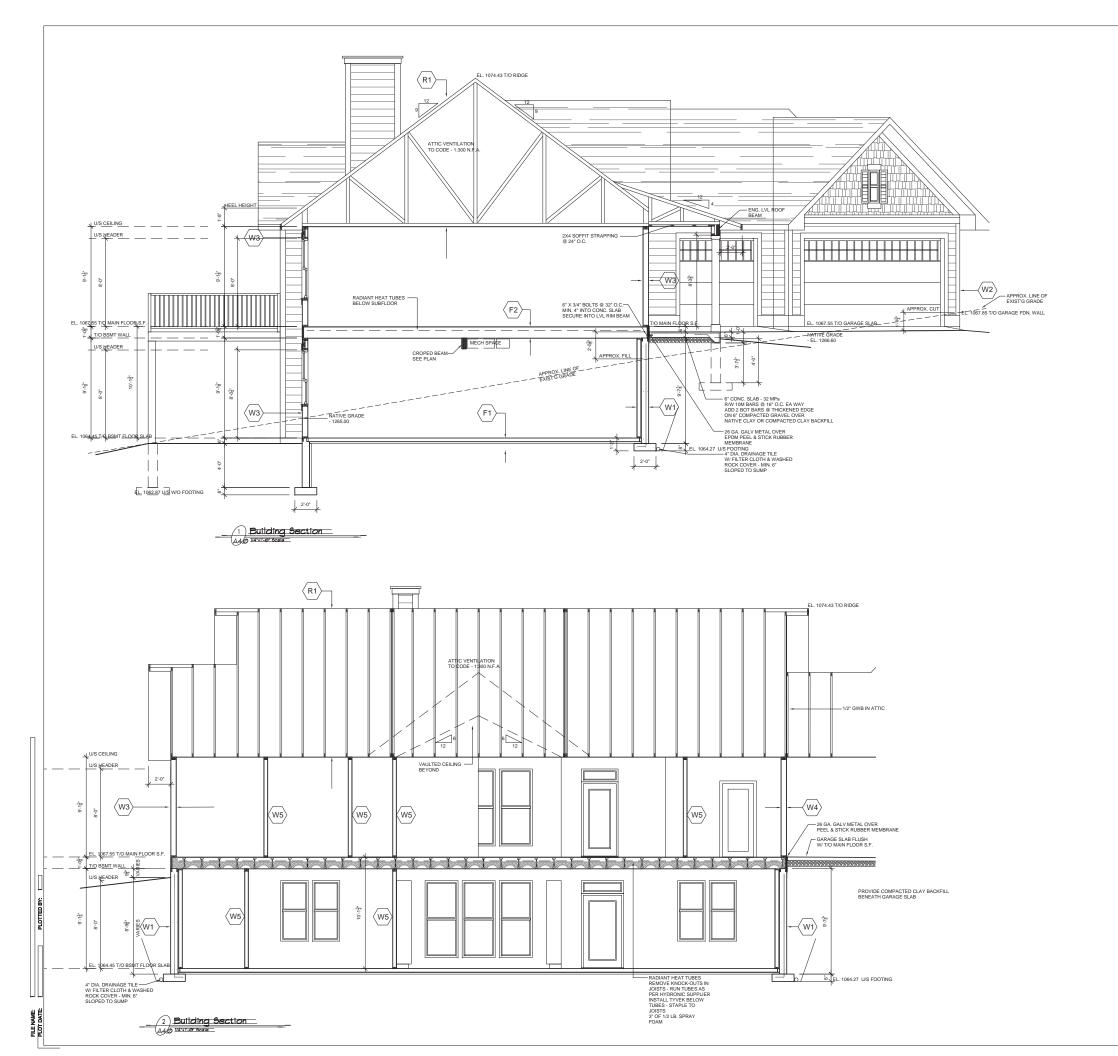


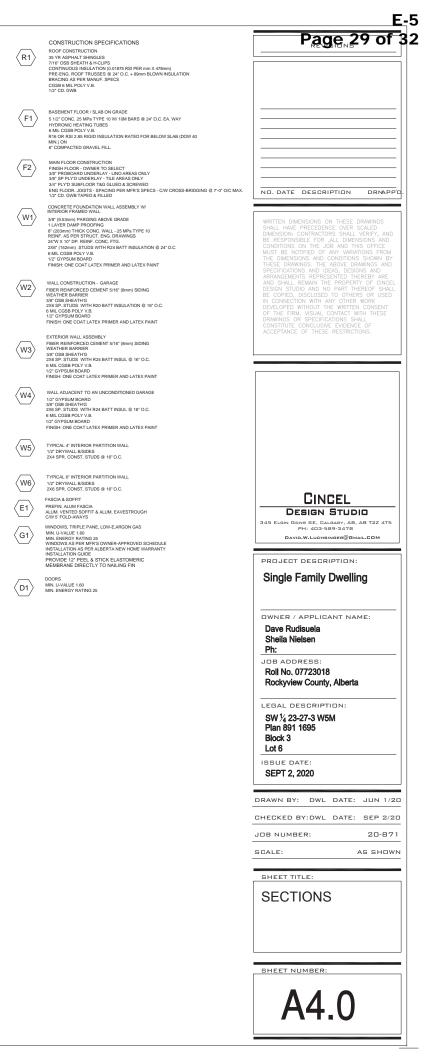


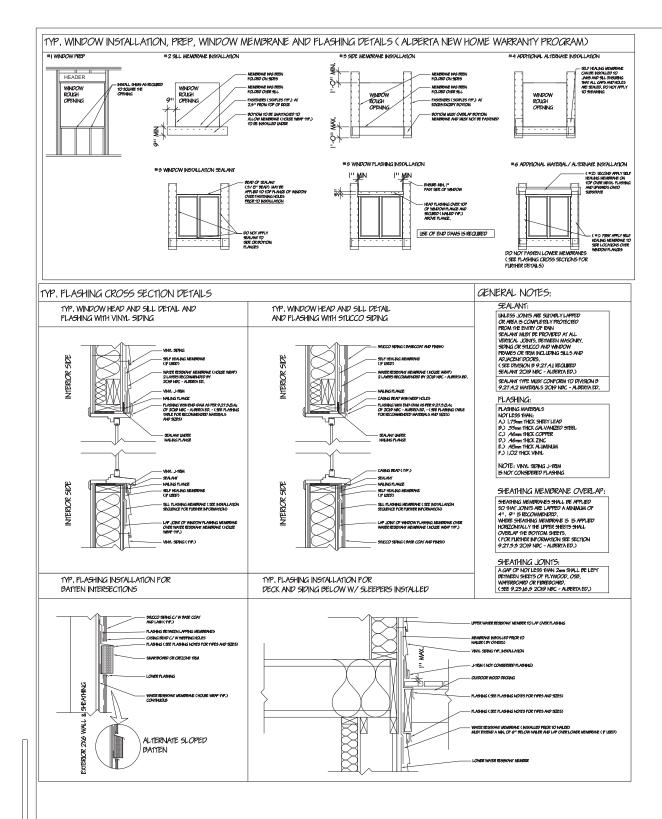












INSULATION CONTINUTY GEN A REDUCTION IN THE THERMAIL RESISTANCE OF T CLEARANCE, PROVED THE NOMINAL THERMAIL RESI THE ATTIC NATIONES AND ALL PULLIMENOELECTRIK - WHEN AN INTERIOR ELEMENT PENTRATES AN EXT - INILATED WITTIN THE FUNCE ON BUILDATION OF INILATED WITTIN THE FUNCE ON BUILDATION OF - INILATED WITTIN THE FUNCE ON BUILDATION - ACOUNDATION WALL IS CONSIDERED TO BE IBLO WILL IS ORBATER THAN BOUMA, THE ABOVE GROUP - ACOUNDATION WALL IS CONSIDERED TO BE IBLO - ACOUNDATION BUILDATION COMPONENTS. - ACOUNDATION BUILDATION COMPONENTS. - ACOUNDATION BEDITIES ADDIVING COMPONENTS. - ACOUNDATION BE INTER IDIRENT SULLD AND - ACOUNDATION BE INTERLIBUTION. - ACOUNDATION BE INTERLIBUTION AND EDIPMINA - ACOUNDATION AND EDIPMINA - AC	НЕ СЕЛЮ АВРЕМИ, У МАТ ВТИМСЕ ОГ НЕ ВИЗАЛОН ОСА. РЕЛИТНИКИ ТОТИ ВИТИКО И ПОПОЛЬЗИИТИ НО ВИЗАЛ НЕПОЛЕДНИКИ НА ВИЗАЛИ НЕПОЛЕДНИКИ НА ВИЗАЛИ НЕПОЛЕДНИКИ НА ВИЗАЛИ НЕПОЛЕДНИКИ НА ВИЗАЛИ НО ВИТИКО И ЧИЛА ВИЗАЛИ НЕПОЛЕДНИКИ НА ВИЗАЛИ НЕПОЛЕДНИКИ ВИЗАЛИ НО ВИТИКО И ЧИЛА ВИЗАЛИ ВИТИКО И ЧИЛА ВИЗАЛИ ВИТИКО И ЧИЛА НО ВИТИКО И СОЛИКИ НО ВИТИКО И СОЛИКИ НА ВИТИКО НО ВИТИКО И СОЛИКИ НО ВИТИКО И СОЛИКИ НО ВИТИКО И СОЛИКИ НА ВИТИКО НО ВИТИКО И СОЛИКИ НО ВИТИКО НО ВИТИКО И СОЛИКИ НО ВИТИКО НО ВИТИКО И СОЛИКИ НА ВИТИКО НО ВИТИКО НО ВИТИКО НО ВИТИКО НО ВИТИКО НО ВИТИКО НО ВИТИКО НО ВИТИКО НО ВИТИКО НО ВИТИКО НО ВИТИКО НО ВИТИКО НО ВИТИКО Н	TICS UNDER SLOP IN DRECTLY ADOV IN DRECTLY ADOV IN THE ATTIC SPIACE AL IS IN THE ANALE OF A DATE OF A DATE OF A IN THE AND A DATE OF A DATE OF A DATE OF A IN THE AND A DATE OF A DATE OF A DATE OF A IN THE AND A DATE OF A DATE OF A DATE OF A IN THE AND A DATE OF A DATE OF A DATE OF A IN THE AND A DATE OF A DATE OF A DATE OF A IN THE AND A DATE OF A DATE OF A DATE OF A IN THE AND A DATE OF A DATE OF A DATE OF A DATE OF A IN THE AND A DATE OF A DATE OF A DATE OF A DATE OF A IN THE AND A DATE OF A IN THE AND A DATE OF A DATE	ED ROOFS IS E THE EXTEN INSULATION, INSULATION, INSULATION, INSULATION, INSULATION, INSULATION, INSULATION	RIOR WALL IS N APS, SPACES, F I, THE INTERIOR IL RESISTIACE IL RESISTIACE IL THE PENETRA IL ATED BEHIND SI WHEN THE TC VE GRADE REQ DI N A MANNER ID IN A MANNER IND OR COVERIL EQUINEMENT S	TY LESS THAN R-30 / PERTENDEND, INDER ELEMENT ONLI BE ELEMENT ONLI BE THAN ROAD ON THE STRUCTURE TO THE SPECTIVE T ON THE SPECTIVE T ON OT THE SPECTIVE T ON THE SPECTIVE T ON THE SPECTIVE T ON OT THE SPECTIVE T ON THE SPECTIVE	RBI - 342. GULARTIES THAT COULD ALLOW LEAKAGE MUST I OF THAT REQUIRED FOR THE PENET HERMAL RESISTANCE REQUIRED FOR THE PENET FOUNDATION IS ON AVERAGE LESS THAN 600m EFFECTIVE THERMAL RESISTANCE THAT IS NOT LE COMPONENTS WITH AN AIR BARRIER MATERNAL SA AMES. N AND PROPERTIES BYALL CONFORM TO 9.25.5	BE BEALED. RATED ELEMENT, OR OR BELOW GRADE WAL IN GAY ABOVE THE ADJO ESS THAN THE LOWER O	ll assembi Ining grou Ininimum
- CANTILEVERED FLOORS AND WALL JUNCTIONS RE - JUNCTIONS BETWEEN THE FLOOR AND RIM JOISTS AS PER TABLE ABC 9.38.2.6.A EFFECTIVE THERMA	EQUIRE CONTINUOUS AIR BA	RRIER. Sealed.			ASPER	TABLE ABC9 39 2.8.4 EFFECTIVE THERMAL RESIG		DE OR IN CO
WITHOUT A HEAT RECOVEY VENTILATOR ABOVE-GROUND OPAQUE BUILDING ASSEMBLY	ZONE 7A (5000 TO 599	8)				IT A HEAT RECOVERY VENTILATOR 3 ASSEMBLY BELOW GRADE OR IN	ZONE 7A (5000 TO 58	89)
CEILING BELOW ATTIC CATHEDRAL CEILING AND FLAT ROOF	MINIMUM EFFECTIVE T 10.43 59.2 5.02 28.5	2	NCE (RSI) / R	₹-VALUE		T WITH THE GROUND	MINIMUM EFFECTIVE	3.46 11
CATHEDRAL CEILING AND FLAT ROOF WALLS FLOOR OVER UNHEATED SPACES	5.02 28.5 3.08 17.4 5.02 28.5	9			BELOW	ATION WALLS TED FLOORS FROST LINE	<u> </u>	UNINSUL
AS PER TABLE ABC 9.36.2.7.A REQUIRED THERMAL			000		ABOVE	FROST LINE AND UNHEATED FLOORS ON PERMAFROST	+	1.968 1 N/A 2.84 1
AS PER TABLE ABC 9.38.2.7.A REQUIRED THERMAI COMPONENTS THERMAL CHARACTERISTICS	ZONE 7A (5000 TO 5996					I FLOOR I GRADE WITH AN INTEGRAL FOOTING	<u> </u>	3.72 2
PENETRATION MAX. U-VALUE	1.60	-						
AND DOOR MIN. ENERGY RATING	20							
CONSTRUCTION SPECIFICA	ATIONS				7			
CLIMATE ZONE 7A					1	EXTERIOR WALL ASSEMBLY		
ROOF CONSTRUCTION 35 YR ASPHALT SHINGLES		THICKNESS	RSI/mm	RSI VALUE		EXTERIOR AIR FILM FIBER REINFORCED CEMENT 5/16" (8mm) S WEATHER BARRIER	IDING	
35 YR ASPHALT SHINGLES 7/16" OSB SHEATH & H-CLIPS CONTINUOUS INSULATION (0.01875 RSI PER mn	m X 478mm)	11.11	0.0098	0.11		3/8" OSB SHEATH'G 2X6 SP. STUDS WITH R24 BATT INSULATIO	N	
PRE-ENG. ROOF TRUSSES @ 24" O.C. + 89mm E BRACING AS PER MANUF. SPECS	BLOWN INSULATION	177.8	0.01875	3.33		6 MIL CGSB POLY V.B. 1/2* GYPSUM BOARD		
CGSB 6 MIL POLY V.B. 1/2" CD. GWB		0.06	0.00	0.00	-	FINISH: ONE COAT LATEX PRIMER AND LAT INTERIOR AIR SPACE	TEX PAINT	
INTERIOR AIR FILM	ASSEMBLY EFFECTIVE 7A REQUIREMENT W/O HRV 8			0.12	-		ASSEMBLY EF	FECTIVE R
ZONE 7	7A REQUIREMENT W/O HRV 8	5.02				RSI VALUES ASSEMBPLY WERE OBTAINED FRO	QUIREMENT W/O HRV RS DM ABC 2014 TABLE A-9.3	
(mm) 8x89 WOODTRUSS 89 0.0 IT 610mm a/c	RSI-VALUE (mm) RSI-VALUE 0085 0.76 11875 1.66		<u>89</u> .66	RSI-VALUE EFFECTIVE = 1.46 (R-8.42) RSI VALUE		* RSI FOR 2X8 (85X162mm) WOOD FRAME AT 16* THICKNESS (mm) 38x152 WOOD STUD 152 AT 406mm olc 152 R24 BATT INSULATION 127 (CANULC:S702)		VALUE VLUE)
NTERIOR AIR FILM				0.16		RSI VALUES FOR INDIVIDUAL CONSTRUCTION I	MATERIALS USED IN ASS	SEMBPLY WI
1/2" CONC. 25 MPa TYPE 10 W/ 10M BARS @ 24 IYDRONIC HEATING TUBES	1" O.C. EA. WAY	140.0	0.0004	0.06		ABC 2014 TABLE A-9.36.2.4.(1)D		
MIL CGSB POLY V.B. 16 OR RSI 2.85 RIGID INSULATION RATED FOR I IIN.) ON	BELOW SLAB (DOW 40			2.85		WALL ADJACENT TO AN UNCONDITIONED	GARAGE	
* COMPACTED GRAVEL FILL.	ASSEMBLY EFFECTIVE	- RSI		3.07	$\langle W4 \rangle$	INTERIOR GARAGE AIR FILM		
ZONE 7A RE RSI VALUES ASSEMBPLY WERE OBTAINED FROM AB	ASSEMBLY EFFECTIVE QUIREMENT W/O HRV RSI= 2 IC 2014 TABLE A-9.36.2 8 (1)TO					1/2* GYPSUM BOARD 3/8* OSB SHEATH'G 2X6 SP. STUDS WITH R24 BATT INSULATIO	N	
AN FLOOR CONSTRUCTION FINISH FLOORIN					Г	6 MIL CGSB POLY V.B. 1/2" GYPSUM BOARD		
FINISH FLOOR - OWNER TO SELECT					-	FINISH: ONE COAT LATEX PRIMER AND LAT INTERIOR AIR SPACE	EX PAINT	
3/8" PROBOARD UNDERLAY - LINO AREAS ONLY 3/8" SP PLY'D UNDERLAY - TILE AREAS ONLY 3/4" PLY'D SUBFLOOR T&G GLUED & SCREWED	r				-		1007	
3/4" PLY'D SUBFLOOR T&G GLUED & SCREWED ENG FLOOR. JOISTS - SPACING PER MFR'S SPE 1/2" CD. GWB TAPD & FILLED	ECS - C/W CROSS-BRIDGIN	IG @ 7'-0" O/C MA	Х.		1	ZONE 7A REG	ASSEMBLY EF QUIREMENT WO HRV RS	VALUE=8.0
ONCRETE FOUNDATION WALL ASSEMBLY W		THICKNESS	RSI/mm	RSI VALUE	$\overline{1}$	TYPICAL 4" INTERIOR PARTITION WALL		
NTERIOR FRAMED WALL		1:	1	0.03	(W5)	1/2" DRYWALL B/SIDES 2X4 SPR, CONST, STUDS @ 16" O.C.		
/8" (9.53mm) PARGING ABOVE GRADE LAYER DAMP PROOFING "(203mm) THICK CONC. WALL - 25 MPa TYPE 10	1	- 203	- 0.0004	- 0.08	1			
* (203mm) THICK CONC. WALL - 25 MPa TYPE 10 EINF. AS PER STRUCT. ENG. DRAWINGS 4"W X 10" DP. REINF. CONC. FTG.	-	203	0.0004	0.00		TYPICAL 6" INTERIOR PARTITION WALL		
X6* (152mm) STUDS WITH R24 BATT INSULATIO MIL CGSB POLY V.B.	ON @ 24* O.C	•	•	3.27*		1/2" DRYWALL B/SIDES 2X6 SPR. CONST. STUDS @ 16" O.C.		
/2" GYPSUM BOARD INISH: ONE COAT LATEX PRIMER AND LATEX P.	PAINT	12.7	0.0061	0.08	1			
NTERIOR AIR SPACE	ASSEMBLY EFFECTIVE	-	·	0.12		STAIR CONSTRUCTION 2X12 STRINGERS		
	MENT W/O HRV RSI VALUE=S	3.48		3.58		1" TREADS PLYWOOD RISERS 1" NOSING		
RSI VALUES ASSEMBPLY WERE OBTAINED FROM AB	IC 2014 TABLE A-9.38.2.8.(1)TO	U(8).				6'-8" MINIMUM HEADROOM CLEARANCE		
RSI FOR 2X6 (38X162mm) WOOD FRAME AT 24*(610n	mm) ON CENTRE FILLED WITH	R24 BATT INSULA	TION			FASCIA & SOFFIT PREFIN. ALUM FASCIA		
	RSI/ RSI-VALUE (mm) (R-VALUE)	EFFECTIVE RSI- CALCULATION		RSI-VALUE EFFECTIVE		ALUM. VENTED SOFFIT & ALUM. EAVESTR C/W 5' FOLD-AWAYS	OUGH	
	0085 1.29	100				WINDOWS, TRIPLE PANE, LOW-E, ARGON G	AS	
AT 610mm o/c		12 0	87	= 3.27 (R18.57)	(G1)	MIN. U-VALUE 1.60 MIN. ENERGY RATING 25 WINDOWS AS PER MFR'S OWNER-APPROV	/ED SCHEDI II F	
R24 BATT INSULATON 152	- 4.23		4.23	•		INSTALLATION AS PER ALBERTA NEW HOM INSTALLATION GUIDE	ME WARRANTY	
VALL CONSTRUCTION - GARAGE		THICKNESS	RSI/mm	RSI VALUE]	PROVIDE 12" PEEL & STICK ELASTOME MEMBRANE DIRECTLY TO NAILING FIN		
XTERIOR AIR FILM IBER REINFORCED CEMENT 5/16" (8mm) SIDING	3	- 12.7	- 0.0061	0.03	-			
/EATHER BARRIER /8° OSB SHEATH'G		9.5	-	- 0.08		DOORS MIN. U-VALUE 1.60		
6 SP. STUDS WITH R20 BATT INSULATION @ 1 MIL CGSB POLY V.B.								
	16" O.C.		-	2.45		MIN. ENERGY RATING 25		
			- - 0.0061	- 0.08		MIN. ENERGY RATING 25		
2° GYPSUM BOARD NISH: ONE COAT LATEX PRIMER AND LATEX P. TERIOR AIR SPACE		- - 12.7 -	- - 0.0061 - -	-		MIN. ENERGY RATING 25		

ENERGY NOTES

A. - EFFECTIVE THERMAL RESISTANCE OF BELOW-GRADE OR IN CONTACT WITH THE GROUND IN BUILDINGS IY VENTILATOR ZONE 7A (5000 TO 5999) V GRADE OR IN) Hermal Resistance (RSI) / R-Valu 3.48 19.65 UNINSULATED LOORS ON PERMAERO 2.84 16.13 3.72 21.29 INTEGRAL FOOTING ALL ASSEMBL REED CEMENT 5/16" (8mm) SIDING -0.08 2.78* I'G WITH R24 BATT INSULATION 0.0061 0.08 12.7 ATEX PRIMER AND LATEX PAINT 0.12 ASSEMBLY EFFECTIVE RSI ZONE 7A REQUIREMENT W/O HRV RSI VALUE=3.08 EMBRI Y WERE ORT RAME AT 181 TRE WITH BATT INSULATION THICKNESS RSI/ RSI-VALUE EFFECTIVE RSI-VALUE (mm) (mm) (R-VALUE) CALCULATION RSI-VALUE EFFECTIVE DD STUD 152 0.0085 1.29 100 = 2.78 (R15.78) 127 0.036 4.23 <u>23</u> + <u>77</u> 1.29 + <u>4.23</u> SULATION TERIALS USED IN ASSEMBPLY WERE OBTAINED FROM R INDIVIDUAL C NT TO AN UNCONDITIONED GARAGE RSI VALUE RAGE AIR FILM DARD TH'G WITH R24 BATT INSULATION 0.08
0.08
2.78* 0.0061 0.08 0.12 ASSEMBLY EFFECTIVE RSI ZONE 7A REQUIREMENT W/O HRV RSI VALUE=3.08 3.17 TERIOR PARTITION . B/SIDES NST. STUDS @ 16" O.C. TERIOR PARTITION WAL . B/SIDES IST. STUDS @ 16" O.C. RUCTION FASCIA D SOFFIT & ALUM. EAVESTROUGH WAYS IPLE PANE, LOW-E, ARGON GAS 1.60 E 1.60 (RATING 25 PER MFR'S OWNER-APPROVED V AS PER ALBERTA NEW HOME V I GUIDE N GUIDE " PEEL & STICK ELASTOMERIC DIRECTLY TO NAILING FIN E 1.60 / RATING 25

ITH AN AIR BARRIER MATERIAL AND SEALING IT TO THE ADJACENT AIR BARRIER MATERIA

ON AVERAGE LESS THAN 600mm (24") ABOVE THE ADJOINING GROUND LEVEL WHERE THE

L RESISTANCE THAT IS NOT LESS THAN THE LOWER ON MINIMUM VALUES REC

RED FOR THE ABOVE OR BELOW GRADE WALLL ASSEMBL

COULD ALLOW LEAKAGE MUST BE SEALED.

NO. DATE DESCRIPTION DRNAPP'D

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Page 30 of 32

CINCEL DESIGN STUDIO

45 ELGIN GDNS SE, CALGARY, AB, AB T2Z PH: 403-589-3478 DAVID.W.LUCHSINGER@GMAIL.CO

PROJECT DESCRIPTION

Single Family Dwelling

OWNER / APPLICANT NAME:

Rockyview County, Alberta

DRAWN BY: DWL DATE: JUN 1/20

CHECKED BY: DWL DATE: SEP 2/20

ENERGY CODE DATA FLASHING DETAILS

20-871 AS SHOWN

LEGAL DESCRIPTION: SW 1⁄4 23-27-3 W5M Plan 891 1695

Sheila Nielsen

JOB ADDRESS:

Roll No. 07723018

Ph:

Block 3

ISSUE DATE: SEPT 2, 2020

JOB NUMBER

SHEET TITLE:

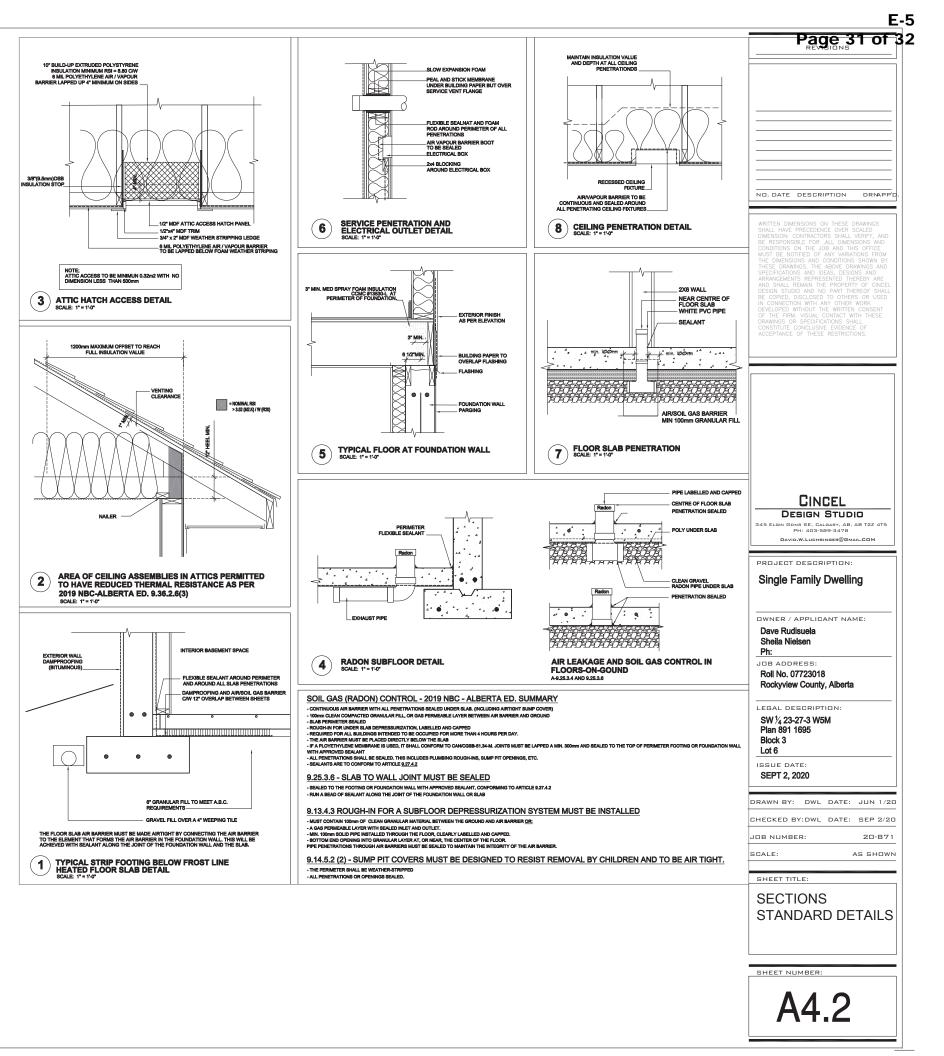
SHEET NUMBER:

A4.1

SCALE:

Lot 6

Dave Rudisuela



FILE NAME: PLOT DATE:

