



	LIST OF DRAWINGS		L
A-0.0	Cover Page	A-4.0	Section
A-0.1	Assemblies	A-4.1	Section
A-1.0	Foundation plan	A-5.0	Above
A-1.1	Basement Plan	A-5.1	Founda
A-1.2	Main Floor Plan	A-5.2	Tall Wa
A-1.3	Upper Floor Plan	A-5.3	Tall Wa
A-1.4	Roof Plan	A-5.4	Party V
A-2.0	Front & Right Elevation	A-5.5	Air Bar
A-2.1	Rear & Left Elevation	E-1.0	Basem
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A-3.0	Garage Plans and Details	E-1.2	Upper I
A-3.1	Garage Elevations & Section		•

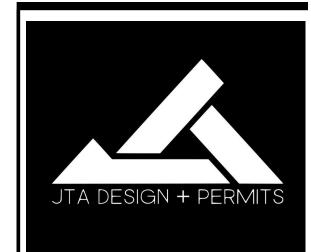
LIST OF DRAWINGS ion 2 & 3 Ground & Roof Detail dation Detail Vall Details Vall Detail 2 Wall Details arrier, Window, Jamb & HRV Details ment electrical Electrical ⁻ Electrical

MAIN DWELLING
BUILDING CODE:
THE APPLICABLE CODE FOR THE BUILDING IS
THE NBC 2023 AE OCCUPANCY CLASSIFICATION:
GROUP C (RESIDENTIAL OCCUPANCY) BUILDING CLASSIFICATION:
THE BUILDING CONFORMS WITH THE
REQUIREMENTS OF PART 9 DIVISION B OF THE
NBC 2023 AE (1.3.3.3.) 3 STOREYS OR LESS IN BUILDING HEIGHT BUILDING AREA NOT EXCEEDING 600 SQUARE

OCCUPANCY CLASSIFICATION: GROUP F (DIVISION 3 STORAGE GARAGES) BUILDING CLASSIFICATION:
THE BUILDING CONFORMS WITH THE
REQUIREMENTS OF PART 9 DIVISION B OF THE
NBC 2023 AE (3.2.2.90) STORAGE GARAGES UP TO 22m HIGH METRE USED FOR MAJOR OCCUPANCY CLASSIFIED AS GROUP C

GARAGE
BUILDING CODE:
THE APPLICABLE CODE FOR THE BUILDING IS
THE NBC 2023 AE

FLOOR AREA - UNIT #1 FLOOR AREA - UNIT #2 FLOOR AREA - UNIT #3 FLOOR AREA - UNIT #4 BASEMENT = 651.88 SQ. FT. = 644.79 SQ. FT. BASEMENT = 666.21 SQ. FT. BASEMENT = 644.79 SQ. FT. BASEMENT = 651.88 SQ. FT. = 692.24 SQ. FT. = 1344.12 SQ. FT. = 644.79 SQ. FT. = 677.99 SQ. FT. = 1322.78 SQ. FT. MAIN MAIN = 644.79 SQ. FT. MAIN = 666.21 SQ. FT.



GENERAL NOTES:

MUNICIPAL ADDRESS: 2502 16a Street S.E.

CALGARY, ALBERTA

PROJECT: FOUR UNIT ROWHOUSE

PROJECT NUMBER: 174-23

STATUS:

CONCEPT

LEGAL LAND DESCRIPTION: LOT: BLOCK: PLAN:

DO NOT SCALE DRAWINGS. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSULTANT DRAWINGS CONTRACTOR IS TO CONFIRM AND COORDINATE ALL DETAILS WITH SITE CONDITIONS AND OTHER CONSULTANT DRAWINGS PRIOR TO STARTING CONSTRUCTION.

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ALL WORK MUST COMPLY WITH THE MOST RECENT EDITION OF THE NATIONAL BUILDING CODE (AE) AND ANY OTHER GOVERNING AUTHORITIES.

ALL FRAMING , ELECTRICAL ROUGH-IN AND PLUMBING ROUGH-IN NEEDS TO BE CONFIRMED BY TRADES/CONTRACTOR AND HOME OWNER. ANY ISSUE NEEDS TO BE NOTIFIED TO THE DESIGNER TO BE RESOLVED BEFORE PROCEEDING

FLOOR AREAS: MAIN FLOOR AREA: -- SQ.FT. UPPER FLOOR AREA: -- SQ.FT. LOFT FLOOR AREA: -- SQ.FT. TOTAL ABOVE GRADE: -- SQ.FT. BASEMENT AREA: -- SQ.FT. GARAGE AREA: -- SQ.FT.

SHEET NAME:

DRAWING SET:

Cover Page

DESIGN BY:

DRAWN BY: LAST REVISION DATE: 2024-06-18 1:34:09 PM

- 1. ALL DIMENSIONS SHOULD BE CONFIRMED ON SITE. ANY CHANGES OR DICREPANCIES SHOULD BE REPORTED TO CONTRACTOR AND DESIGNER PRIOR TO FRAMING
- 2. ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD UNLESS NOTED AS BEING A CLEAR DIMENSION. CLEAR DIMENSIONS ARE FROM FINISH SURFACE TO FINISH SURFACE.
- 3. CONFIRM ALL ROUGH OPENING REQUIREMENTS FOR PLUMBING FIXTURES WITH SUPPLIERS PRIOR TO FRAMING.
- 4. CONFIRM ALL ROUGH OPENING REQUIREMENTS FOR WINDOWS AND DOORS WITH SUPPLIERS PRIOR TO FRAMING. 5. ENSURE THAT ALL ADJACENT GYPSUM BOARD SURFACES ARE FLUSH. ALL EXPOSED GYPSUM BOARD SURFACES
- 6. CONFIRM ALL FLOOR AND ROOF JOIST SIZE, LOCATIONS AND SPACING WITH THE APPROVED SUPPLIERS LAYOUTS.
- 7. UNLESS OTHERWISE NOTED, ALL INTERIOR DOORS TO HAVE A MINIMUM 3" RETURN.

SPRAY FOAM NOTES: CCMC# 14140-L

- 2LBS SPRAY FOAM INSULATION TO BE USED OF RIM JOISTS

- FRAME TOP OF MAIN FLOOR WINDOWS TO MATCH HEIGHT OF EXT DOOR AND TRANSOM UNLESS NOTED - ALL SIDEYARD CANTILEVERS MUST BE DRYWALLED W/ 5/8 DRYWALL & NON VENTING SOFFIT ON UNDERSIDE, NAILING PATTERN TO BE 6" OC ON PERIMETER AND 8" OC IN THE FIELD-GALVANISED NAILS TO BE USED

LONGBOARD APPLIICATION

A LONGBAORD IS AN ALUMINUM SIDING MATERIAL, TEXTURE OF WOOD GRAIN STYLE WITH LENGTH UP TO 24 FEET MANUFACTURES IN DIFFERENT PROFILE SHOWN BELOW. THE LONGBOARD IS NORMALLY USE FOR THE RESIDENTIAL HOUSE BUILDING AS A CLADDING ON WALLS OF PART 9 AND PART 5 APPLICATION OF THE NBC 2023 AE.

7 PRECAST CONCRETE

CONCRETE PARGING

THE LONGBOARD SHALL SATISFY NATIONAL BUILDING CODE (AE) 2023 PART 5 REQUIREMENT. THE OWNER/CONTRACTOR SHALL ENSURE PROVIDING "MAYNE COATING PRODUCT LONGBOARD" OR APPROVED EQUIVALENT, SHALL BE INSTALLED AS PER THE MANUFACTUER'S INSTRUCTIONS AND SHALL MATCH WITH PART 5 OF THE LATEST NATIONAL BUILDING CODE (AE) .

EXTERIOR FINISHES:

SMART BOARD & BATTEN -1 ASPHALT SHINGLES BLACK/ DARK GREY

BRICK CLADDING -2 8" ALUMINUM FASCIA RED AS SPEC'D WOOD SOFFIT -

WOOD GRAIN AS SPEC'D

HARDIE BOARD SIDING -BLACK

INTERIOR WALL ASSEMBLIES: (NOTE: ALL INTERIOR WALLS TO HAVE

- PRESSURE TREATED BOTTOM PLATES) INTERIOR FINISH 1/2" STANDARD GYPSUM BOARD 2X4 STUDS @ 24" O.C. 1/2" STANDARD GYPSUM BOARD (& 1/2" BLUE BOARD FACING TUB/SHOWER AS REQUIRED)
- INTERIOR FINISH INTERIOR FINISH 1/2" STANDARD GYPSUM BOARD 2X6 STUDS @ 24" O.C. 1/2" STANDARD GYPSUM BOARD (& 1/2" BLUE BOARD FACING TUB/SHOWER AS REQUIRED) INTERIOR FINISH
- P3 REFER TO W13a (STC 57); TABLE A-9 10 3 14-TABLE A-9.10.3.1A; NBC (AE) 2023 INTERIOR FINISH 5/8" TYPE X GYPSUM BOARD TAPED & SANDED

 2X4 STUDS @ 24" O.C. (SEE ENG. DETAILS
 FOR STUD SIZE AT TALL WALLS) MIN. R12 BATT INSULATION
- 1" AIR SPACE MIN. R12 BATT INSULATION 2X4 STUDS @ 24" O.C. (SEE ENG.DETAILS FOR STUD SIZE AT TALL WALLS) 5/8" TYPE X GYPSUM BOARD TAPED & SANDED
 (& 1/2" BLUE BOARD FACING TUB/SHOWER AS REQUIRED) INTERIOR FINISH
- P4 INTERIOR FINISH
 1/2" STANDARD GYPSUM BOARD TAPED & SANDED R12 FIBERGLASS BATT INSULATION 2X4 STUDS @24" O.C. 1" AIR SPACE 8" SITECAST TYPE S MONOLITHIC CONCRETE
 WALL, REFER TO TABLE D-2.1.1. NBC (AE) 2023

 E4
 SIMILAR TO "E1"
 2X6 WOOD STUD 1" AIR SPACE 2X4 STUDS @ 24" O.C. R12 FIBERGLASS BATT INSULATION
- 1/2" STANDARD GYPSUM BOARD
 TAPED & SANDED FOR PAINTING (1/2" BLUE BOARD FACING TUB/SHOWER AS REQUIRED) P5 INTERIOR FINISH
 1/2" STANDARD GYPSUM BOARD TAPED & SANDED R20 FIBERGLASS BATT INSULATION 2X6 STUDS @24" O.C. AIR SPACE 8" SITECAST TYPE S MONOLITHIC CONCRETE

1" AIR SPACE

2X6 STUDS @ 24" O.C.

R20 FIBERGLASS BATT INSULATION 1/2" STANDARD GYPSUM BOARD
TAPED & SANDED FOR PAINTING

WALL, REFER TO TABLE D-2.1.1. NBC (AE) 2023

(1/2" BLUE BOARD FACING

TUB/SHOWER AS REQUIRED)

EXTERIOR WALL ASSEMBLIES: (NOTE: FIRE RATED EXTERIOR SHEATHING

- PRODUCT TO BE INSTALLED ON ALL EXTERIOR WALLS DURING CONSTRUCTION AS PER NBC (AE) 2023) HARDIE OR EQUIVALENT (AS PER ELEV. DRAWING) AS PER MANUFACTURER'S SPECS.
- 2-PLY BUILDING PAPER 3/8" PLY OR OSB SHEATHING (FIRE RESISTANCE OSB AS REQ'D FOR AFC-5.6.1.2) 2X6 WOOD STUDS @ 24" O.C. (UNLESS OTHERWISE NOTED)
 R-22 BATT INSULATION MIN. 6 MIL. (0.15mm) POLY VAPOUR BARRIER (WARM SIDE OF STUD) BOARD TAPED, FILLED, & BLUE BOARD FACING TUB/
- SHOWER AS REQUIRED) INTERIOR FINISH SMOOTH PARGING ABOVE GRADE WATER PROOFING/DAMP PROOFING BELOW GRADE, INCLUDING TOP OF FOOTING BOTH SIDES
- 8" SITECAST CONC. ON DAMP PROOFING CAPILLARY BREAK IN FOOTING 2X6 STUDS @ 24" O.C. R-20 FIBERGLASS BATT INSULATION 6 MIL. (0.15mm) POLY VAPOUR BARRIER (WARM SIDE OF STUD) 1/2" CONTROLLED DENSITY GYPSUM BOARD TAPED, FILLED, & SANDED FOR PAINTING (1/2"
- SHOWER AS REQUIRED)
 INTERIOR FINISH E3 TALL WALL CONSTRUCTION
- SEE TALL WALL DETAIL 2X6 WOOD STUDS @ 16" O.C.
 (UNLESS OTHERWISE NOTED)
 R-24 BATT INSULATION MIN.

FLOOR ASSEMBLIES: F1) FINISHED FLOORING MIN. 3/4" PLYWOOD OR OSB T&G

(T1) 5/8" EXTERIOR GRADE TYPE X GYPSUM ENGINEERED ROOF TRUSS (AS PER

TRUSS ASSEMBLIES:

- SUPPLIER'S LAYOUT) PARALLEL
 TO PARTY WALL 5/8" EXTERIOR GRADE TYPE X GYPSUM **BOARD TAPED** 5/8" EXTERIOR GRADE TYPE X GYPSUM BOARD TAPED
- ENGINEERED ROOF TRUSS (AS PER SUPPLIER'S LAYOUT) PARALLEL 8" SITECAST TYPE S MONOLITHIC CONCRETE WALL, REFER TO TABLE D-2.1.1. NBC (AE) 2023
- 1" AIR SPACE ENGINEERED ROOF TRUSS (AS PER SUPPLIER'S LAYOUT) PARALLEL TO PARTY WALL 5/8" EXTERIOR GRADE TYPE X GYPSUM
 - FINISHED FLOORING
 MIN. 3/4" PLYWOOD OR OSB T&G SHEATHING (GLUED & SCREWED) ENGINEERED FLOOR JOISTS (AS PER SUPPLIER'S LAYOUT)
 MIN. R-28 BATT INSULATION RESILIENT CHANNEL SPACED 400mm O.C. 1/2" CONTROLLED DENSITY GYPSUM BOARD TAPED, FILLED & SANDED INTERIOR FINISH

ROOF ASSEMBLIES: FOOTING ASSEMBLIES:

ASPHALT SHINGLES OR EQUIVALENT ROOFING FELT 3/8" PLYWOOD OR OSB SHEATHING C/W H-CLIPS ENGINEERED ROOF TRUSSES (AS PER SUPPLIERS LAYOUT) MIN. R50 LOOSE-FILL OR
FIBERGLASS BATT INSULATION 6 MIL. (15mm) POLY VAPOUR BARRIER (CAN/CGSB) 1/2" CONTROLLED DENSITY GYPSUM

BOARD TAPED, FILLED, & SANDED

WALL 30"X8" THICK CONCRETE STRIP FOOTING C/W 4-10M REBAR CONTINUOUS WALL 54"X12" THICK CONCRETE STRIP FOOTING C/W REBAR AS PER STRUCT.

WALL 20"X8" THICK CONCRETE STRIP FOOTING C/W

4-10M REBAR CONTINUOUS

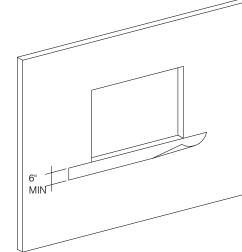
ENGINEERED FLOOR JOISTS

F3) REFER TO F8k (STC 46); TABLE A-9.10.3.1.-B NBC 2023 AE

INTERIOR FINISH

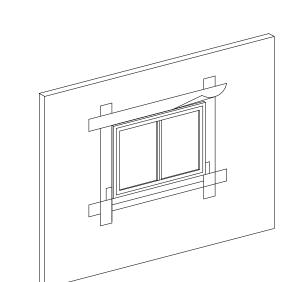
6" COMP. GRAVEL

TYPICAL WINDOW INSTALLATION DETAILS SHEATHING (GLUED & SCREWED) (AS PER SUPPLIER'S LAYOUT) 1/2" CONTROLLED DENSITY GYPSUM BOARD TAPED, FILLED & SANDED 3" CONC. SLAB MIN. 6 MIL VAPOUR BARRIER MUST BE BETWEEN POURED AND BASE

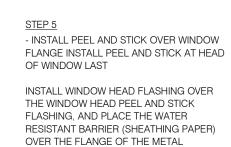


- INSTALL SILL FLASHING PAPER AT BOTTOM EDGE OF OPENING, STAPLE ALONG TOP EDGE 10mm FROM TOP OF

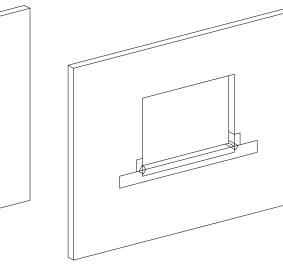
- LEAVE BOTTOM EDGE UNATTACHED FOR WATER RESISTANT BARRIER (SHEATHING PAPER) INSTALLATION TO GO UNDERNEATH FLASHING PAPER



- INSTALL PEEL AND STICK OVER AND SILL FLASHING PAPER. EXTEND VERTICALLY 6". - MAKE SURE PEEL AND STICK TO COVER SILL COMPLETELY



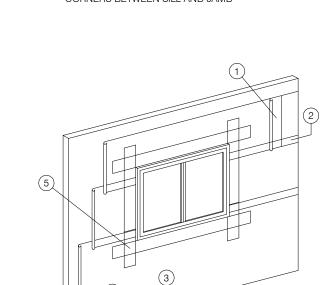
FLASHING



NOTE: PRIOR TO INSTALLING WINDOWS , PLEASE ENSURE YOU APPLY PROPER STICK AND SEAL TO JAMB AS SHOWN

- CUT PEEL AND STICK MEMBRANE FOLD OVER SILL AND JAMB FLASHING PAPER AS

- PLACE PEEL AND STICK PATCH ON CORNERS BETWEEN SILL AND JAMB



2. LAP WATER RESISTANT BARRIER (SHEATHING PAPER) HORIZONTALLY 4"

- INSTALL WINDOW AS PER MANUFACTURE

3. THIS SHEET OF WATER RESISTANT BARRIER (SHEATHING PAPER) TO SLIP UNDER SILL AND FLASHING PAPER, NOTCH WATER RESISTANT BARRIER TO FIT TIGHTLY AROUND WINDOW FRAME PROFILE

1. LAP WATER RESISTANT BARRIER (SHEATHING PAPER)

4. TWO LAYERS OF WATER RESISTANT BARRIER (SHEATHING PAPER) STAGGERING JOINTS 12" MIN

5. SLIP LOWER END OF JAMB FLASHING PAPER AND SILL FLASHING PAPER OVER WATER RESISTANT BARRIER AT THE WINDOW SILL

WINDOW#	WINDOW SIZE	ROUGH OPENING	TYPE	LOCATION	QTY
W1	1' 8" X 7' 0"	1' 9" X 7' 1"		LIVING / MASTER BEDROOM	8
W2	4' 0" X 7' 0"	4' 1" X 7' 1"		LIVING / MASTER BEDROOM	4
W3	9' 0" X 8' 0"	9' 1" X 8' 1"		LIVING	2
W4	2' 0" X 7' 0"	2' 1" X 7' 1"		FOYER / BEDROOM #2	2
W5	2' 0" X 3' 0"	2' 1" X 3' 1"		POWDER / STAIRS	2
W6	5' 0" X 4' 0"	5' 1" X 4' 1"		KITCHEN	4
W7	3' 0" X 8' 0"	3' 1" X 8' 1"		MASTER BEDROOM	2
W8	3' 0" X 8' 0"	3' 1" X 8' 1"		MASTER BEDROOM / BEDROOM #2	4
W9	3' 0" X 8' 0"	3' 1" X 8' 1"		BEDROOM #2	2
W10	2' 0" X 5' 6"	2' 1" X 5' 7"		BEDROOM #2 / BATH / STAIRS	5
W11	2' 0" X 3' 0"	2' 1" X 3' 1"		HALLWAY	4
W12	5' 0" X 3' 0"	5' 1" X 3' 1"		BEDROOM #3	4
W13	4' 0" X 3' 0"	4' 1" X 3' 1"	EGRESS	SEC. SUITE BEDROOM	2
W14	5' 0" X 3' 0"	5' 1" X 3' 1"	EGRESS	SEC. SUITE BEDROOM	2
W15	5' 0" X 3' 0"	5' 1" X 3' 1"	EGRESS	KITCHEN	4

	DOOR SCHEDULE						
DOOR#	DOOR SIZE	ROUGH OPENING	TYPE	LOCATION	QTY		
D1	3' 0" X 8' 0"	3' 1" X 8' 1"		FOYER	3		
D2	3' 0" X 8' 0"	3' 1" X 8' 1"		FOYER	1		
D3	2' 8" X 8' 0"	2' 9" X 8' 1"		STAIRS	1		
D4	2' 8" X 8' 0"	2' 9" X 8' 1"		KITCHEN/STAIRS	7		
D5	8' 0" X 8' 0"	8' 1" X 8' 1"		GARAGE	4		
D6	3' 0" X 7' 0"	3' 1" X 7' 1"		GARAGE	6		

CONTRACTOR, FRAMER AND WINDOW MANUFACTURER TO CONFIRM SIZES BEFORE ORDER AND INSTALL

GENERAL NOTES:

1. DIMENSIONS INDICATED ON SCHEDULE ARE FOR PRICING AND REFERENCE PURPOSE ONLY. SUPPLIER TO SUBMIT SHOP DRAWINGS FOR CONTRACTOR REVIEW PRIOR TO EXECUTING THE WORK. SHOP DRAWINGS TO CONFIRM ALL REQUIRED ROUGH OPENINGS FOR FRAMING

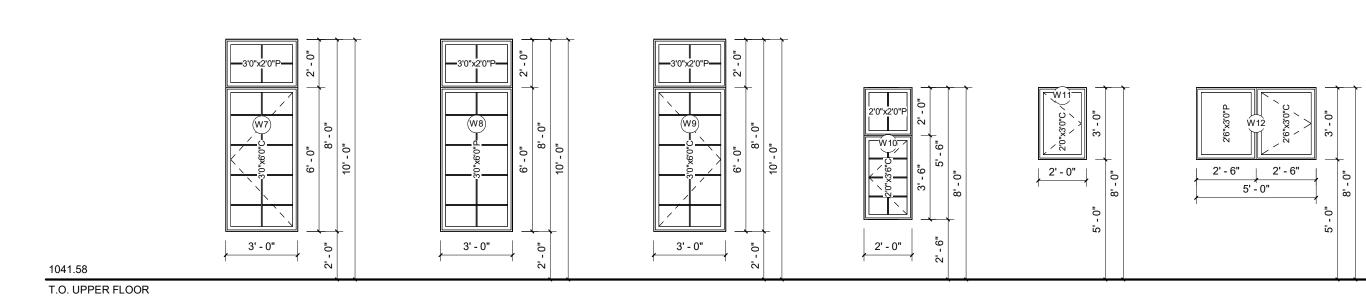
2. SUPPLIER TO CONFIRM THAT BEDROOM WINDOWS MEET EGRESS REQUIREMENTS. 3. ALL OPERABLE WINDOWS TO BE COMPLETE WITH REMOVABLE SCREENS. SCREENS TO BE SHIPPED SEPARATELY FROM WINDOWS TO PREVENT DAMAGE.

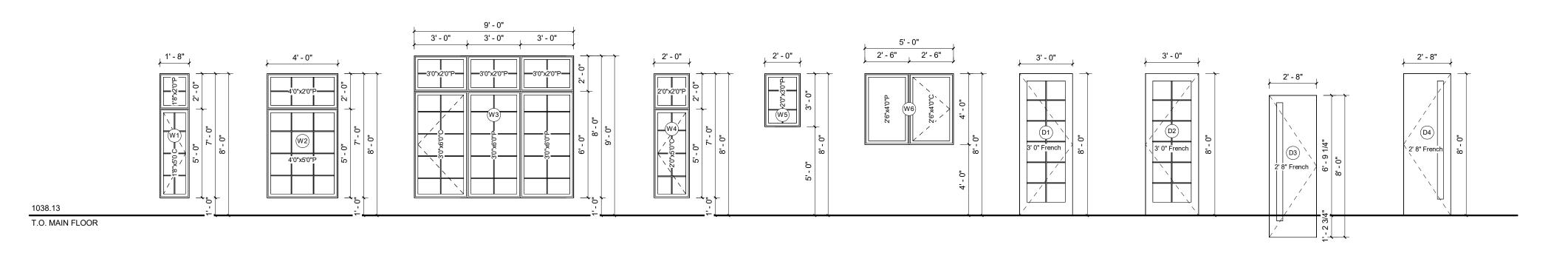
4.GLASS TYPE AND THICKNESS TO MEET NBC (AE) 2023 REQUIREMENTS FOR ALL SIDELITES. 5.REFER TO BUILDING ELEVATIONS FOR HINGE DIRECTIONS ON AWNING AND CASEMENT UNITS.

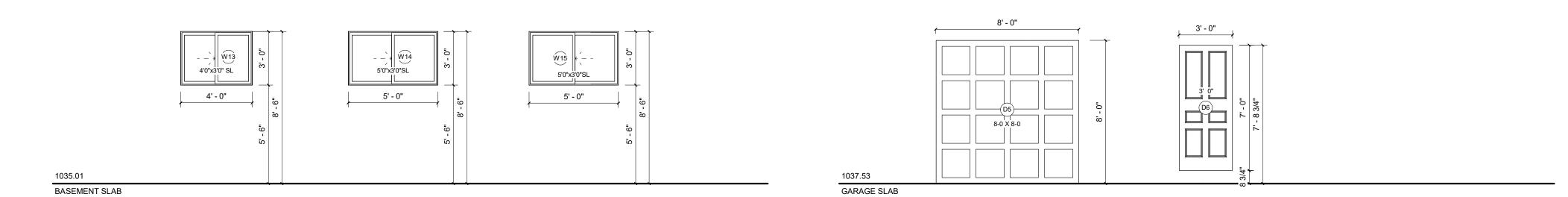
6. INSTALL ALL WORK IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS AND REVIEW SHOP DRAWINGS. 7. PROVIDE ALL COMPANION ACCESSORIES AND ASSOCIATED ITEMS FOR A COMPLETE AND FUNCTIONING INSTALLATION. 8. FILL FRAMING VOIDS WITH INSULATION AS RECOMMENDED BY MANUFACTURER AND AS REQUIRED BY CODE.

10. REFER TO DOOR+WINDOW SCHEDULE OR <u>ELEVATIONS FOR INFORMATION NOT DRAWN.</u>

9. WINDOW FRAME WIDTH TO BE CONFIRMED AND APPROVED BY DESIGNER.









GENERAL NOTES:

CONTRACTOR, FRAMER AND WINDOW MANUFACTURER TO **CONFIRM SIZES BEFORE ORDER** AND INSTALL

MUNICIPAL ADDRESS: 2502 16a Street S.E. CALGARY, ALBERTA

FOUR UNIT ROWHOUSE

PROJECT NUMBER: 174-23

PROJECT:

STATUS: CONCEPT

LEGAL LAND DESCRIPTION: BLOCK: PLAN: LOT:

DO NOT SCALE DRAWINGS. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSULTANT DRAWINGS CONTRACTOR IS TO CONFIRM AND COORDINATE ALL DETAILS WITH SITE CONDITIONS AND OTHER CONSULTANT DRAWINGS PRIOR TO STARTING CONSTRUCTION. JOHN TRINH & ASSOCIATES INC. ASSUMES NO RESPONSIBILITY, IMPLIED OR DIRECT UNLESS THE DRAWINGS BEAR THE SEAL AND SIGNATURE OF A

REGISTERED PROFESSIONAL.					
NO.	DATE(D/M/Y)	DETAIL	BY		
01.	12/09/23	DP PLANS	K.C.		
02.	06/12/23	REVISIONS	AD.		
03.	13/05/24	BP PLANS	S.P.		
04.		-			
05.	-	•	-		

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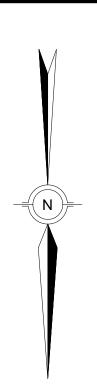
LOOR AREAS:	
AIN FLOOR AREA:	SQ.FT
PPER FLOOR AREA:	SQ.F1
OFT FLOOR AREA:	SQ.F1
OTAL ABOVE GRADE:	SQ.F1
ASEMENT AREA:	SQ.FT
ARAGE AREA:	SQ.F1
RAWING SET:	

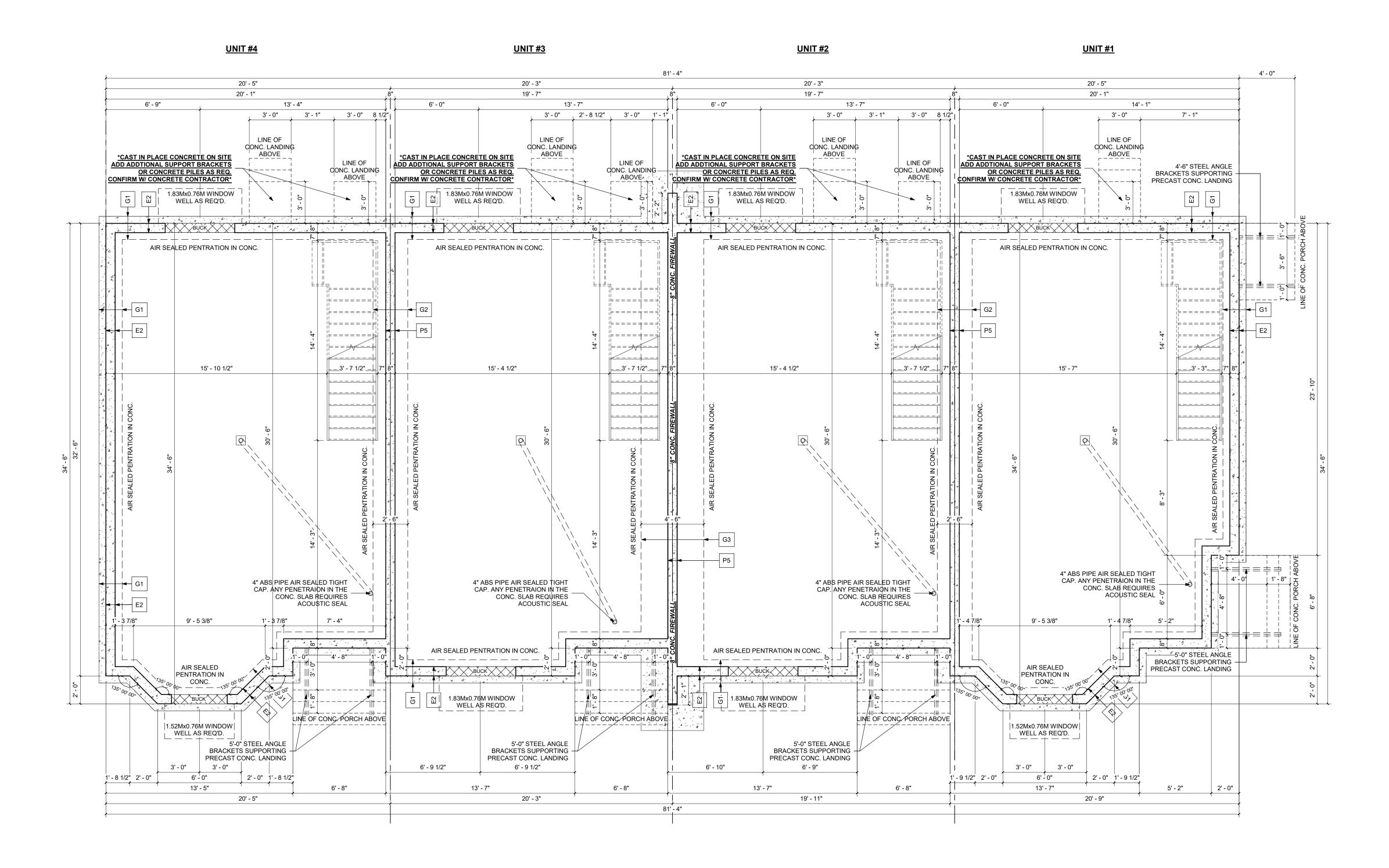
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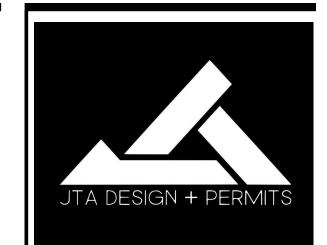
SCALE:

DESIGN BY: DRAWN BY:

LAST REVISION DATE: 2024-06-18 1:34:13 PM







FOR RADON PIPE SIZE: THE CODE IS NOT SPECIFIC ON THE TYPE OF PIPE THAT MAY BE USED, ONLY ON THE DIMESION OF NOT LESS THAN 100MM (4")



MUNICIPAL ADDRESS: 2502 16a Street S.E. CALGARY, ALBERTA

PROJECT: FOUR UNIT ROWHOUSE

PROJECT NUMBER:

174-23

STATUS: CONCEPT

LEGAL LAND DESCRIPTION: LOT: BLOCK: PLAN:

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NO.	DATE(D/M/Y)	DETAIL	BY
01.	12/09/23	DP PLANS	K.C.
02.	06/12/23	REVISIONS	AD.
03.	13/05/24	BP PLANS	S.P.
04.		-	
05.		-	
06			

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MAIN FLOOR AREA: -- SQ.FT.

UPPER FLOOR AREA: -- SQ.FT.

LOFT FLOOR AREA: -- SQ.FT.

TOTAL ABOVE GRADE: -- SQ.FT.

BASEMENT AREA: -- SQ.FT.

GARAGE AREA: -- SQ.FT.

DRAWING SET:

SHEET NAME: Foundation plan

DESIGN BY:

DRAWN BY:

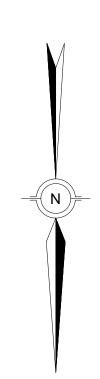
SCALE:

LAST REVISION DATE:

2024-06-18 1:34:13 PM

FOUNDATION PLAN SCALE: 1/4" = 1'-0"

FOR RADON PIPE SIZE: THE CODE IS NOT SPECIFIC ON THE TYPE OF PIPE THAT MAY BE USED, ONLY ON THE DIMENSION OF NOT LESS THAN 100MM (4")



SPRAY FOAM NOTES:

-2LBS SPRAY FOAM INSULATION TO BE USED OF RIM JOISTS -FRAME TOP OF MAIN FLOOR WINDOWS TO MATCH HEIGHT OF EXT DOOR AND TRANSOM UNLESS NOTED

-ALL SIDEYARD CANTILEVERS MUST BE DRYWALLED W/ 5/8" DRYWALL & NON VENTING SOFFIT ON UNDERSIDE, NAILING PATTERN TO BE 6" OC ON PERIMETER AND 8" OC IN THE FIELD-GALVANISED NAILS TO BE USED

-ENSURE HEADROOM AT ELEC. PANEL IS MIN 6'-6" AND HAS 39" CLEARANCE.

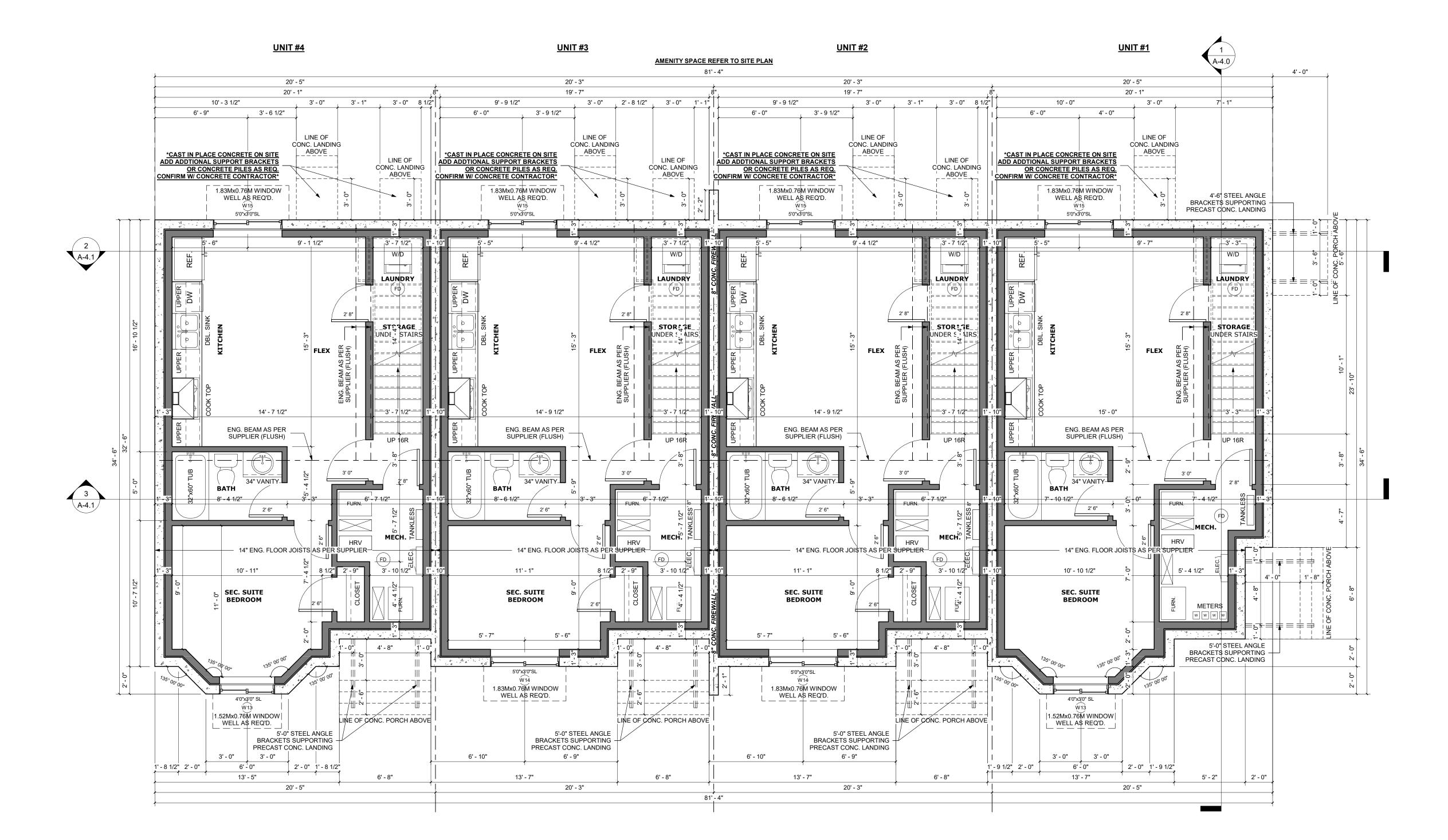
-EXACT FURNACE & HWT LOCATION & ORIENTATION TO BE DETERMINE BY HEATING CONTRACTOR.

- RADON PIPING LOCATION TBD ON SITE.

- WITH LIFEBREATH RNC 205 HEAT RECOVERY VENTILATION (SEE SPEC. FOR DETAILS A-5.9)

- LENNOX FURNACE WITH AFUE Rating of 95% - 98.7%

- BRADFORD WATER HEATER WITH 0.67-0.70 ENERGY STAR RATING AND 70-80 RECOVERY EFFICIENCY



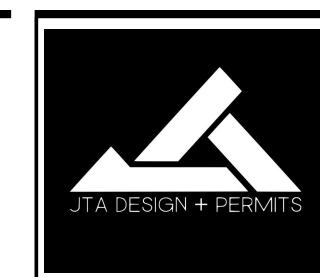
UNIT #1 BASEMENT FLOOR AREA TOTAL: 651.88 SQ. FT.

UNIT #2 BASEMENT FLOOR AREA TOTAL: 644.79 SQ. FT.

UNIT #3 BASEMENT FLOOR AREA TOTAL: 644.79 SQ. FT.

UNIT #4 BASEMENT FLOOR AREA TOTAL: 666.21 SQ. FT.

9'-0" BASEMENT FLOOR



GENERAL NOTES:

-ALL FRAMING, ELECTRICAL ROUGH-IN AND PLUMBING ROUGH-IN NEEDS TO BE CONFIRMED BY TRADES/CONTRACTOR AND HOME OWNER, ANY ISSUE NEEDS TO BE NOTIFIED TO THE DESIGNER TO BE RESOLVED BEFORE PROCEEDING.

MUNICIPAL ADDRESS: 2502 16a Street S.E. CALGARY, ALBERTA

PROJECT: FOUR UNIT ROWHOUSE

PROJECT NUMBER:

STATUS:

CONCEPT

174-23

LEGAL LAND DESCRIPTION: LOT: BLOCK: PLAN:

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MAIN FLOOR AREA: -- SQ.FT. UPPER FLOOR AREA: -- SQ.FT. LOFT FLOOR AREA: -- SQ.FT. TOTAL ABOVE GRADE: -- SQ.FT. BASEMENT AREA: -- SQ.FT.

-- SQ.FT.

GARAGE AREA:

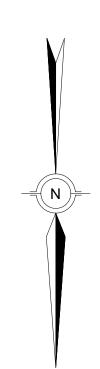
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FLOOR AREAS:

SHEET NAME: Basement Plan

DESIGN BY:

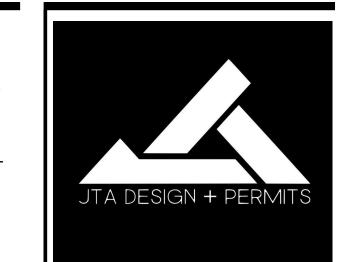
DRAWN BY: LAST REVISION DATE: 2024-06-18 1:34:15 PM



SPRAY FOAM NOTES:

-2LBS SPRAY FOAM INSULATION TO BE USED OF RIM JOISTS -FRAME TOP OF MAIN FLOOR WINDOWS TO MATCH HEIGHT OF EXT DOOR AND TRANSOM UNLESS NOTED

-ALL SIDEYARD CANTILEVERS MUST BE DRYWALLED W/ 5/8" DRYWALL & NON VENTING SOFFIT ON UNDERSIDE, NAILING PATTERN TO BE 6" OC ON PERIMETER AND 8" OC IN THE FIELD-GALVANISED NAILS TO BE USED



GENERAL NOTES:

MUNICIPAL ADDRESS: 2502 16a Street S.E. CALGARY, ALBERTA

PROJECT: FOUR UNIT ROWHOUSE

PROJECT NUMBER: 174-23

STATUS: CONCEPT

LEGAL LAND DESCRIPTION: LOT: BLOCK: PLAN:

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MAIN FLOOR AREA: -- SQ.FT. UPPER FLOOR AREA: -- SQ.FT. LOFT FLOOR AREA: -- SQ.FT. -- SQ.FT. TOTAL ABOVE GRADE:

-- SQ.FT.

GARAGE AREA:

BASEMENT AREA:

SHEET NAME:

DRAWING SET:

Main Floor Plan

DESIGN BY:

DRAWN BY: LAST REVISION DATE: 2024-06-18 1:34:16 PM

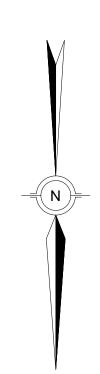
SCALE:

UNIT #1 BASEMENT FLOOR AREA TOTAL: 651.88 SQ. FT. <u>UNIT #2 BASEMENT FLOOR AREA</u> TOTAL: 644.79 SQ. FT. UNIT #3 BASEMENT FLOOR AREA TOTAL: 644.79 SQ. FT. UNIT #4 BASEMENT FLOOR AREA TOTAL: 666.21 SQ. FT.

<u>UNIT #2</u> <u>UNIT #4</u> <u>UNIT #3</u> <u>UNIT #1</u> 81' - 4" 4' - 0" 20' - 3" 20' - 5" 20' - 3" 20' - 5" 14' - 0 1/2" 5' - 10" 13' - 6" 5' - 5 1/2" 13' - 1 1/2" 5' - 10" 13' - 8 1/2" SHARED AMENITY SPACE 6.22m x 2.82m SHARED AMENITY SPACE 6.17m x 2.82m SHARED AMENITY SPACE 6.17m x 2.82m SHARED AMENITY SPACE 6.22m x 2.82m (17.54 m²) (17.40 m²) (17.40 m²) (17.54 m²) 3' - 10" 2' - 0" 2' - 3" 3' - 5 1/2" 2' - 0" 6' - 2" 5' - 7 1/2" 5' - 8" 5' - 2 1/2" 3' - 10" 2' - 0" 5' - 9 1/2" 6' - 4" UP 3R UP 3R A-5.4 METAL CAP CONC. CONC. CONC. CONC. LINE OF WALL ABOVE LINE OF WALL ABOVE LINE OF WALL ABOVE LINE OF WALL ABOVE LANDING LANDING LANDING **LANDING** LANDING LANDING. LANDING 2'6"x4'0"C (W6) 2'6"x4'0"P 2'6"x4'0"C W6)2'6"x4'0"P 2'6"x4'0"C^{W6}2'6"x4'0"P DW DW DW ELANDING # DBL. SINK DBL. SINK DBL. SINK ENG. BEAM AS PER ENG. BEAM AS PER ENG. BEAM AS PER ENG. BEAM AS PER SUPPLIER (FLUSH) SUPPLIER (FLUSH) SUPPLIER (FLUSH) SUPPLIER (FLUSH) 3' - 6" 3' - 11 1/2" 1' - 1 1/2" 1' - 1 3' - 6" 3' - 6" 3' - 6" 3' - 6" 3' - 6" 3' - 6" ENG. BEAM AS PER ENG. BEAM AS PER ENG. BEAM AS PER TENG. BEAM AS PER SUPPLIER (FLUSH) SUPPLIER (FLUSH) SUPPLIER (FLUSH) SUPPLIER (FLUSH) 13' - 10 1/2" 12' - 11 1/2" 12' - 11 1/2" 13' - 6 1/2" 6' - 2'' DINING DINING DINING POWDER POWDER **POWDER** DINING POWDER 36" VANITY BUILT-IN CLOSET BUILT-IN CLOSET BUILT-IN CLOSET BENCH 14" ENG. FLOOR JOISTS AS PER LAYOUT - 14" ENG. FLOOR JOISTS AS PER LAYOUT 14" ENG. FLOOR JOISTS AS PER LAYOUT 14" ENG. FLOOR JOISTS AS PER LAYOUT LINE OF WALL ABOVE 3'0"x2'0"P 3'0"x2'0"P 3'0"x2'0"P 3'0"x2'0"P 3'0"x2'0"P 3'0"x6'0"P 3'0"x6'0"P 3'0"x6'0"P 3'0"x6'0"C 3'0"x6'0"P 3'0"x6'0"C METAL CAP 7 A-5.4 UP 4R UP 4R UP 4R 3' - 0" 3' - 0" 3' - 8 1/2" 3' - 4" 6' - 9 1/2" 6' - 9 1/2" 3' - 4" 3' - 4" 7' - 1 1/2" 6' - 5 1/2" 3' - 4" | 3' - 9 1/2" 3' - 0" 3' - 0" 3' - 9 1/2" 5' - 2" 2' - 0" 20' - 3" 20' - 3"

MAIN FLOOR PLAN SCALE: 1/4" = 1'-0"

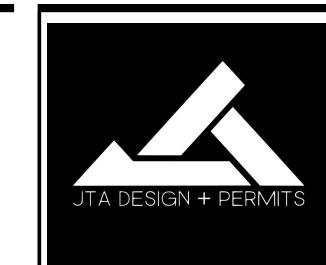
10'-1 1/8" MAIN FLOOR



SPRAY FOAM NOTES:

-2LBS SPRAY FOAM INSULATION TO BE USED OF RIM JOISTS
-FRAME TOP OF MAIN FLOOR WINDOWS TO MATCH HEIGHT OF

EXT DOOR AND TRANSOM UNLESS NOTED
-ALL SIDEYARD CANTILEVERS MUST BE DRYWALLED W/ 5/8"
DRYWALL & NON VENTING SOFFIT ON UNDERSIDE, NAILING
PATTERN TO BE 6" OC ON PERIMETER AND 8" OC IN THE FIELDGALVANISED NAILS TO BE USED



GENERAL NOTES:

MUNICIPAL ADDRESS: 2502 16a Street S.E. CALGARY, ALBERTA

PROJECT: FOUR UNIT ROWHOUSE

PROJECT NUMBER: 174-23

STATUS: CONCEPT

LEGAL LAND DESCRIPTION: LOT: BLOCK: PLAN:

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FLOOR AREAS:

MAIN FLOOR AREA:

-- SQ.FT.

UPPER FLOOR AREA:

-- SQ.FT.

LOFT FLOOR AREA:

-- SQ.FT.

-- SQ.FT.

-- SQ.FT.

TOTAL ABOVE GRADE:

BASEMENT AREA:

GARAGE AREA:

SHEET NAME: Upper Floor Plan

DRAWING SET:

DESIGN BY:

DRAWN BY:

LAST REVISION DATE: 2024-06-18 1:34:17 PM

SCALE: 1/4" = 1

<u>UNIT #4</u> <u>UNIT #3</u> <u>UNIT #2</u> 81' - 4" 20' - 5" 20' - 3" 20' - 3" 20' - 5" 11' - 2" 9' - 5" 11' - 2" 6' - 7" 6' - 11" 6' - 7" 5' - 7" 7' - 1" 5' - 6" 5' - 4" 2' - 6" / METAL CAP W12 2'6"x3'0"C 2'6"x3'0"P 2'6"x3'0"C 2'6"x3'0"P 2'0"x3'0"C LINE OF WALL BELO\-LINE OF WALL BELOW ; LINE OF WALL BELOW 🕹 LINE OF WALL BELOW: 2'0"x3'0"C 10' - 4 1/2" 10' - 4 1/2" 10' - 4 1/2" 10' - 4 1/2" BEDROOM #3 BEDROOM #3 BEDROOM #3 BEDROOM #3 3' - 1 1/2" 1' - 1" 3' - 8 1/2" 22"x30 ්ත 22"x30" ්ත 22"x30" ්ත 22"x30' ්ත CLOSET CLOSET CLOSET CLOSET SHOWER SHOWER SHOWER 32"x60" 32"x60" W.I.C. W.I.C. ENSUITE TUB 32"x60" TUB 32"x60" 5 CLOSET CLOSET CLOSET CLOSET 4' - 1 1/2" 5' - 4 1/2" 4' - 4" 5' - 4 1/2" 6' - 1 1/2" 4' - 0 1/2" 4' - 4" 5' - 4 1/2" 5' - 4 1/2" 4' - 0 1/2" 5' - 4 1/2" 4' - 3 1/2" 5' - 10 1/2" BEDROOM #2 BEDROOM #2 BEDROOM #2 BEDROOM #2 MASTER BEDROOM MASTER BEDROOM $\mathsf{MASTER}\ \mathsf{BEDROOM}^\infty$ MASTER BEDROOM _ ENG. ROOF TRUSS AS PER MANUFACTURER - ENG. ROOF TRUSS AS PER MANUFACTURER - ENG. ROOF TRUSS AS PER MANUFACTURER ENG. ROOF TRUSS AS PER MANUFACTURER LINE OF WALL BELOW LINE OF WALL BELOW LINE OF WALL BELOW LINE OF WALL BELOW 3'0"x6'0"P ✓ METAL CAP A-5.4 1' - 10" 2' - 7 1/2" 3' - 8 1/2" 3' - 0" 3' - 0" 3' - 8 1/2" 3' - 4" 3' - 4" 3' - 9 1/2" 4' - 6" 4' - 6" 3' - 0" 3' - 5 1/2" 4' - 4 1/2" 2' - 0" 2' - 4 1/2" 4' - 4 1/2" 3' - 4" 3' - 5 1/2" 3' - 0" 3' - 0" 3' - 9 1/2" 3' - 7" 7' - 2" 20' - 5" 20' - 3"

> <u>UNIT #1 UPPER FLOOR AREA</u> TOTAL: 692.24 SQ. FT.

UNIT #2 UPPER FLOOR AREA TOTAL: 677.99 SQ. FT.

<u>UNIT #3 UPPER FLOOR AREA</u> TOTAL: 677.99 SQ. FT.

UNIT #4 UPPER FLOOR AREA TOTAL: 693.04 SQ. FT.

UPPER FLOOR PLAN
SCALE: 1/4" = 1'-0"

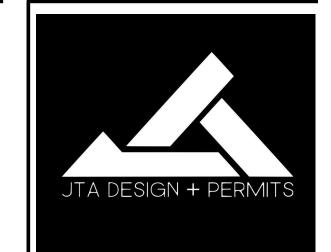
9'-1 1/8" UPPER FLOOR

<u>UNIT #1</u> <u>UNIT #4</u> <u>UNIT #3</u> <u>UNIT #2</u> LINE OF WALL BELOW

LINE ÖF WALL BELOW

--LINË OF WÄLL BELÖW-

CONTRACTOR TO CONFIRM HEEL **HEIGHT & ROOF DETAILS PRIOR TO** ORDERING WITH THE MANUFACTURE. ANY ISSUE MUST BE RESOLVED WITH THE DESIGNER



GENERAL NOTES:

MUNICIPAL ADDRESS: 2502 16a Street S.E. CALGARY, ALBERTA

PROJECT: FOUR UNIT ROWHOUSE

PROJECT NUMBER: 174-23

STATUS: CONCEPT

LEGAL LAND DESCRIPTION: LOT: BLOCK: PLAN:

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RADES/CONTRACTOR AND HOME OWNER. ANY SSUE NEEDS TO BE NOTIFIED TO THE DESIGNER O BE RESOLVED BEFORE PROCEEDING

FLOOR AREAS:

LOFT FLOOR AREA:

BASEMENT AREA

GARAGE AREA:

DRAWING SET:

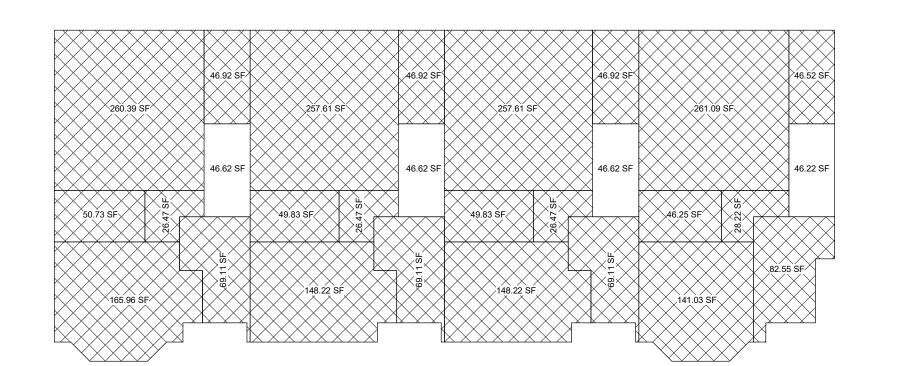
SHEET NAME Roof Plan

DESIGN BY:

DRAWN BY:

ROOF PLAN

SCALE: 1/4" = 1'-0"

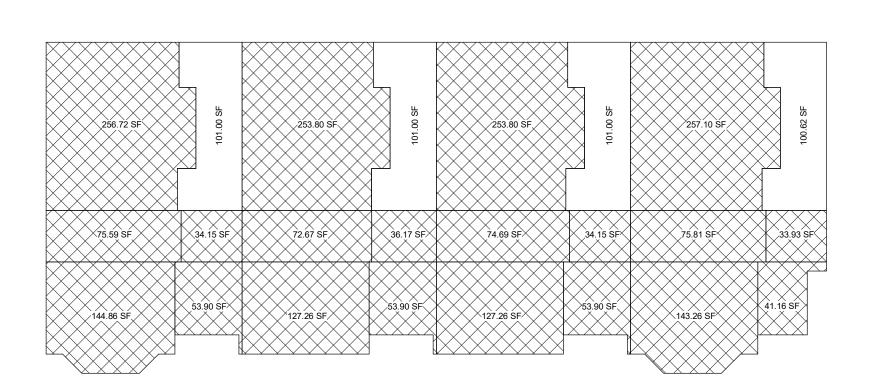


BASEMENT AREA PLAN

UNIT #1 = 651.88 SQ. FT.

UNIT #2 = 644.79 SQ. FT.

UNIT #3 = 644.79 SQ. FT. UNIT #4 = 666.21 SQ. FT.



METAL CAP

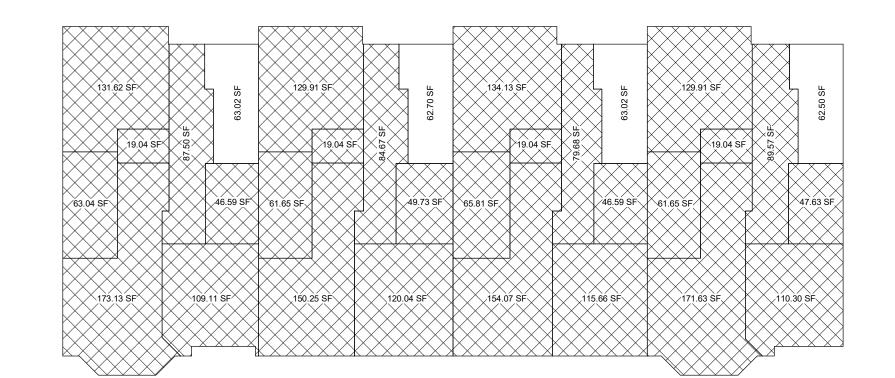
MAIN FLOOR AREA PLAN

UNIT #1 = 651.88 SQ. FT.

UNIT #2 = 644.79 SQ. FT.

UNIT #3 = 644.79 SQ. FT.

UNIT #4 = 666.21 SQ. FT.



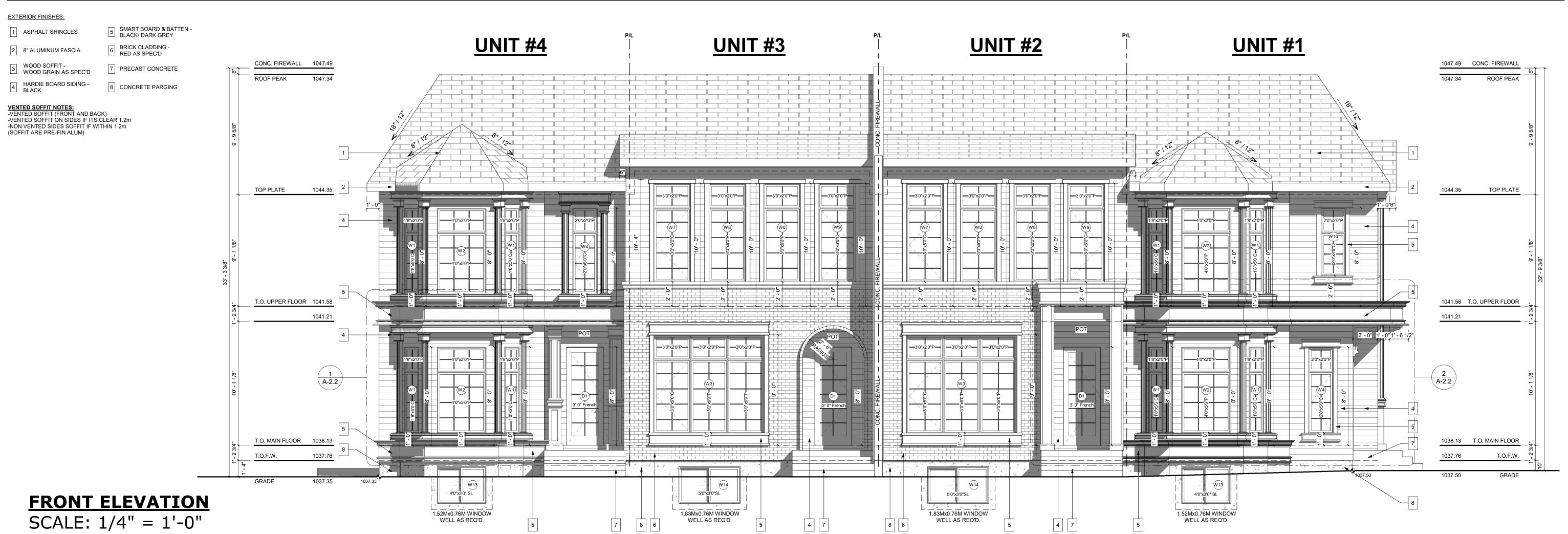
UPPER FLOOR AREA PLAN

UNIT #1 = 692.24 SQ. FT.

UNIT #2 = 677.99 SQ. FT.

UNIT #3 = 677.99 SQ. FT.

UNIT #4 = 693.04 SQ. FT.



CONC. FIREWALL 1047.49



GENERAL NOTES:

MUNICIPAL ADDRESS: 2502 16a Street S.E. CALGARY, ALBERTA

PROJECT: FOUR UNIT ROWHOUSE

PROJECT NUMBER: 174-23

STATUS: CONCEPT

LEGAL LAND DESCRIPTION: LOT: BLOCK: PLAN:

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1047.49 CONC. FIREWALL

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MAIN FLOOR AREA: -- SQ.FT. UPPER FLOOR AREA: -- SQ.FT. LOFT FLOOR AREA: -- SQ.FT. -- SQ.FT. TOTAL ABOVE GRADE: BASEMENT AREA: -- SQ.FT.

DRAWING SET:

SHEET NAME: Front & Right Elevation

DESIGN BY: DRAWN BY:

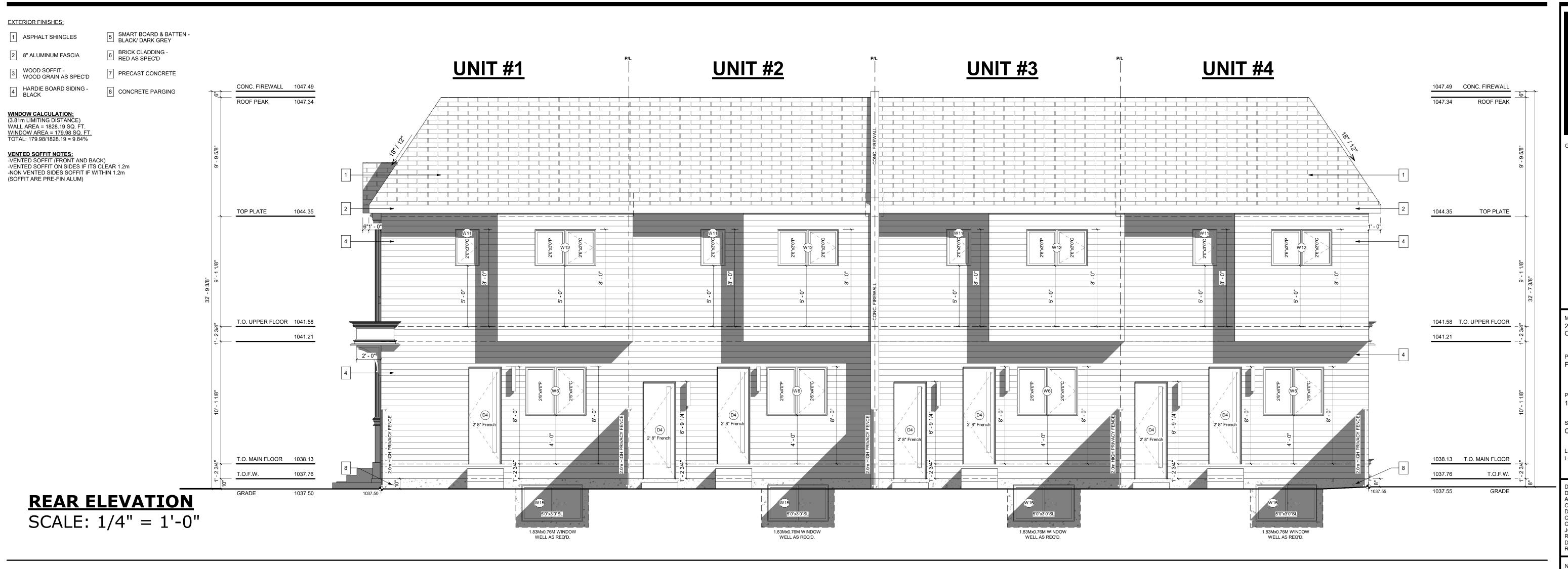
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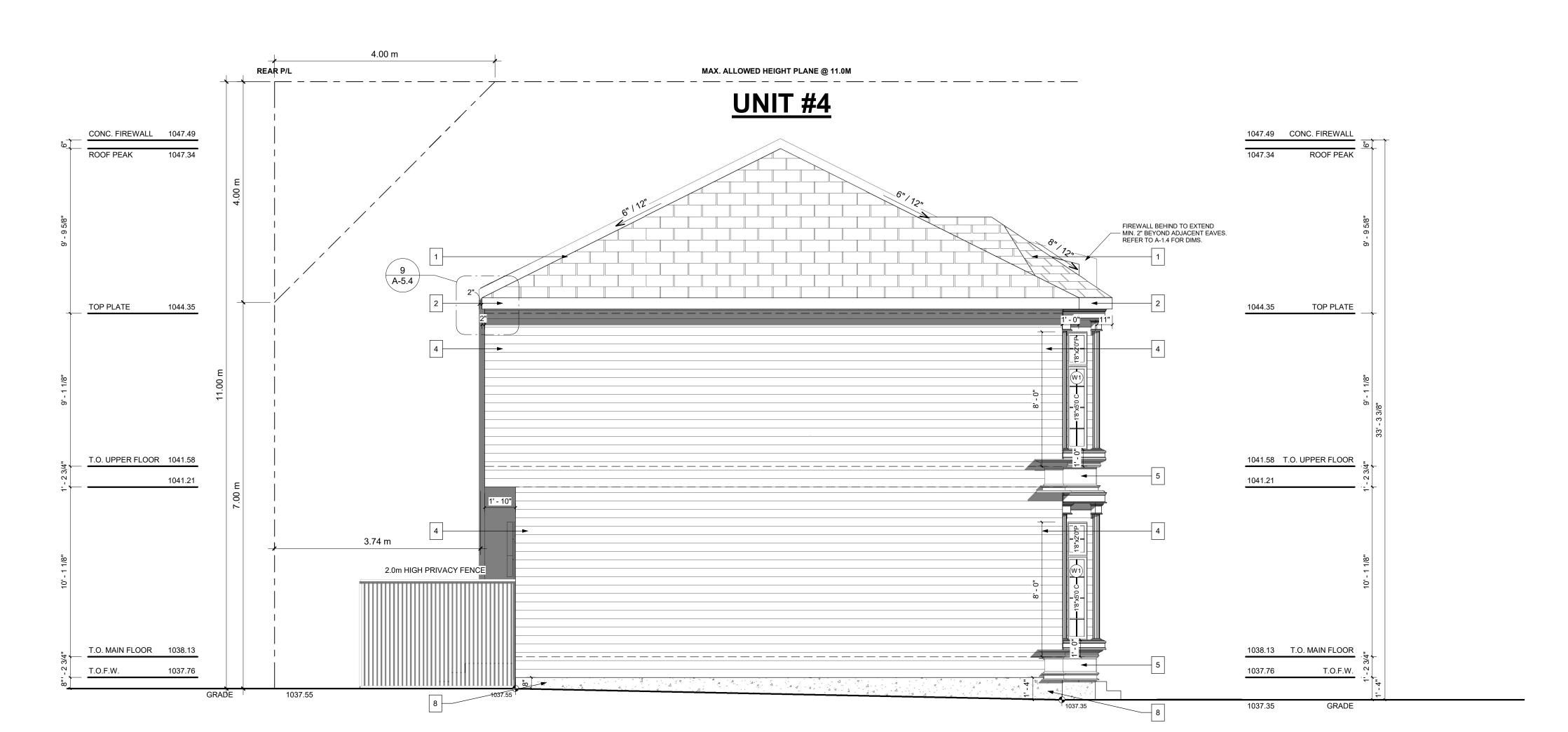
LAST REVISION DATE:

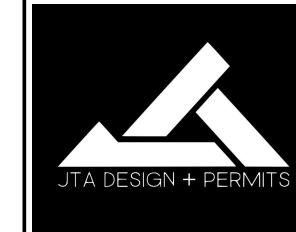


MAX. ALLOWED HEIGHT PLANE @ 11.0M

<u>UNIT #1</u>







MUNICIPAL ADDRESS: 2502 16a Street S.E. CALGARY, ALBERTA

PROJECT: FOUR UNIT ROWHOUSE

PROJECT NUMBER: 174-23

STATUS: CONCEPT

LEGAL LAND DESCRIPTION:

LOT: BLOCK: PLAN:

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05.		-	

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MAIN FLOOR AREA:

-- SQ.FT.

UPPER FLOOR AREA:

-- SQ.FT.

LOFT FLOOR AREA:

-- SQ.FT.

TOTAL ABOVE GRADE:

-- SQ.FT.

BASEMENT AREA:

-- SQ.FT.

GARAGE AREA:

-- SQ.FT.

DRAWING SET:

FLOOR AREAS:

SHEET NAME: Rear & Left Elevation

DESIGN BY:

DRAWN BY:

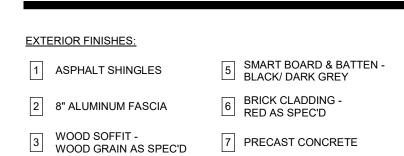
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SCALE:

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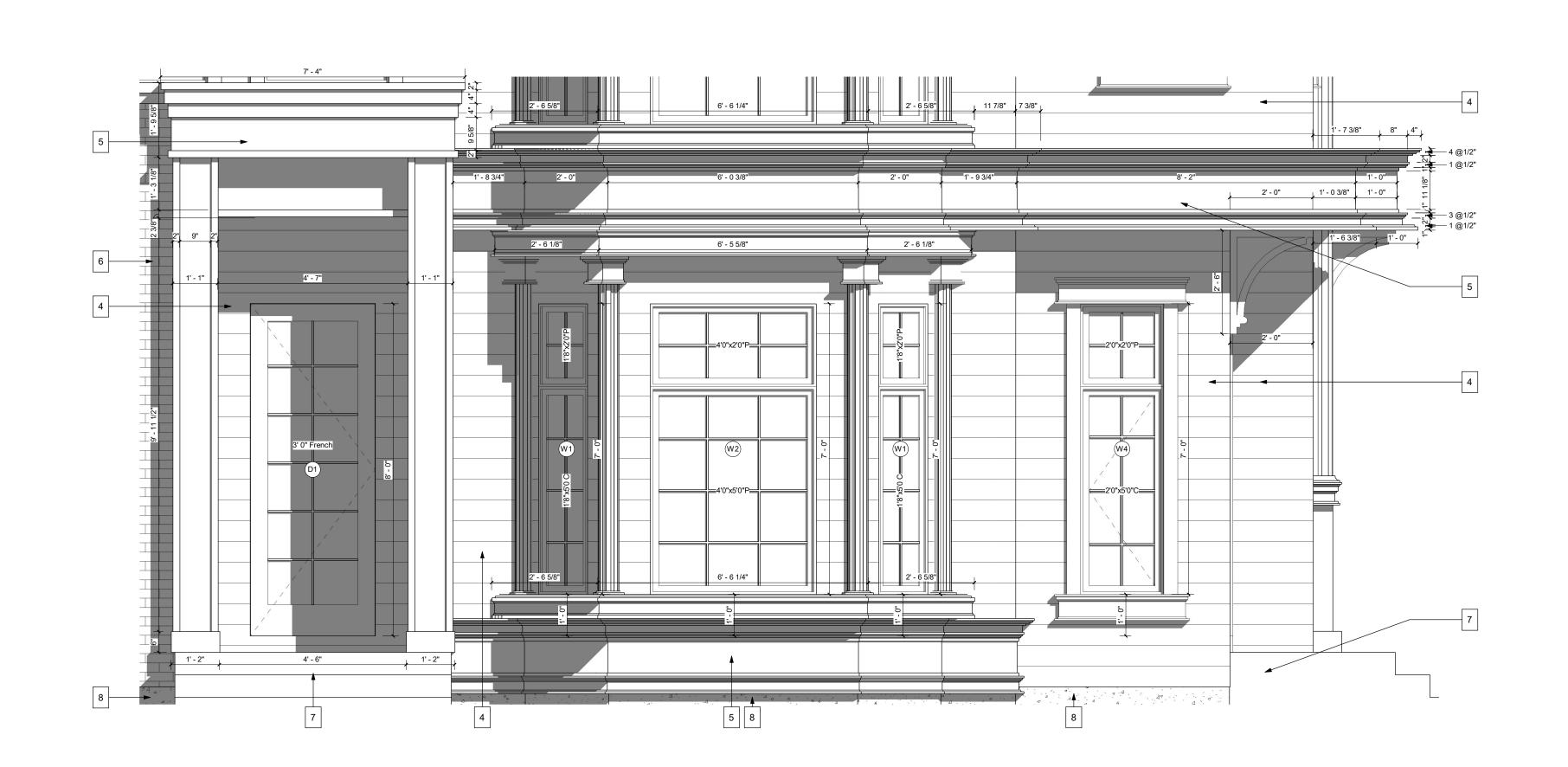


8 CONCRETE PARGING

HARDIE BOARD SIDING -BLACK

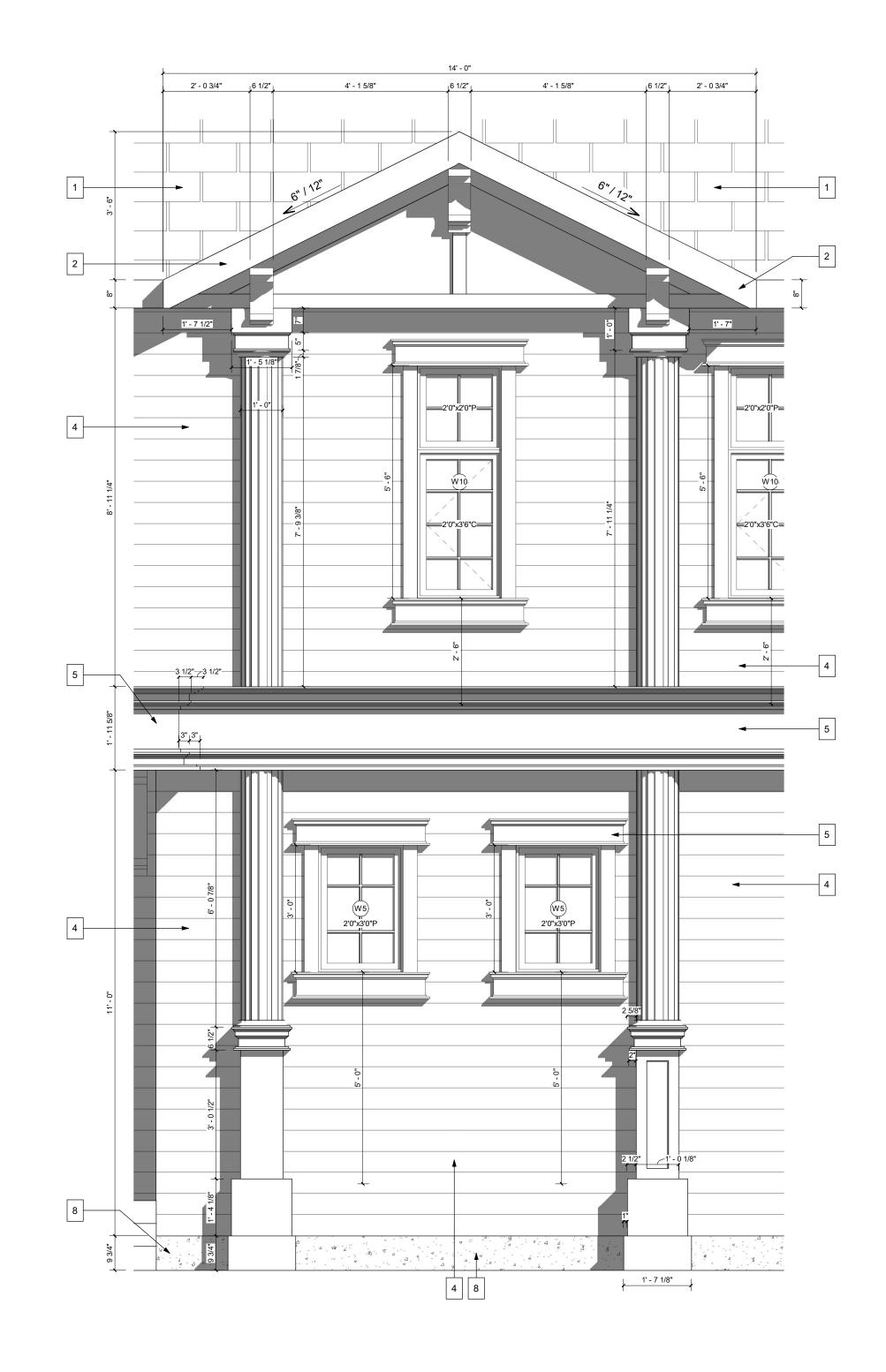
ENLARGED FRONT ELEVATION - 1

SCALE: 1/4" = 1'-0"



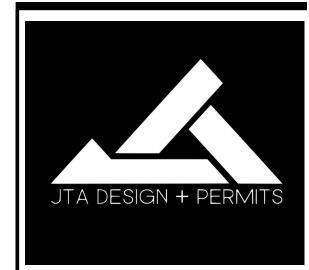
ENLARGED FRONT ELEVATION - 2

SCALE: 1/4" = 1'-0"



ENLARGED RIGHT ELEVATION

SCALE: 1/4" = 1'-0"



GENERAL NOTES:

MUNICIPAL ADDRESS: 2502 16a Street S.E. CALGARY, ALBERTA

PROJECT: FOUR UNIT ROWHOUSE

PROJECT NUMBER:

STATUS:

174-23

CONCEPT

LEGAL LAND DESCRIPTION: LOT: BLOCK: PLAN:

DO NOT SCALE DRAWINGS.
DRAWINGS ARE TO BE READ IN CONJUNCTION WITH
ALL OTHER APPLICABLE CONSULTANT DRAWINGS
CONTRACTOR IS TO CONFIRM AND COORDINATE ALL
DETAILS WITH SITE CONDITIONS AND OTHER
CONSULTANT DRAWINGS PRIOR TO STARTING
CONSTRUCTION.

JOHN TRINH & ASSOCIATES INC. ASSUMES NO RESPONSIBILITY, IMPLIED OR DIRECT UNLESS THE DRAWINGS BEAR THE SEAL AND SIGNATURE OF A REGISTERED PROFESSIONAL.

NO.	DATE(D/M/Y)	DETAIL	BY
01.	12/09/23	DP PLANS	K.C.
02.	06/12/23	REVISIONS	AD.
03.	13/05/24	BP PLANS	S.P.
04.		-	
05.	-	-	
06			

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PLUMBING ROUGH-IN NEEDS TO BE CONFIRMED BY TRADES/CONTRACTOR AND HOME OWNER. ANY ISSUE NEEDS TO BE NOTIFIED TO THE DESIGNER TO BE RESOLVED BEFORE PROCEEDING

FLOOR AREAS:	
MAIN FLOOR AREA:	SQ.FT.
UPPER FLOOR AREA:	SQ.FT.
LOFT FLOOR AREA:	SQ.FT.
TOTAL ABOVE GRADE:	SQ.FT.
BASEMENT AREA:	SQ.FT.
GARAGE AREA:	SQ.FT.

SHEET NAME:

DRAWING SET:

Enlarged Elevations

DESIGN BY:

DRAWN BY:

J

LAST REVISION DATE:

SCALE: 1/2" =

A-2.2

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1. DAMPROOFING REQUIRED AT FOUNDATION WALLS AS PER NBC 2023 AE. 2. DAMPROOFING REQUIRED BELOW SLAB AS PER NBC 2023 AE. 3. DOUBLE SILL PLATE REQUIRED IF CONCRETE FLOOR FINISHED IS USED.

4. LINTELS TO BE FRAMED TO MEET NBC 2023 AE:
-LINTELS OVER OPENING </= 6'-0" TO BE 2-2X8 #2 OR BETTER SPF. LINTELS OVER OPENINGS > 6-0" TO BE 2-2X10 #2 OR BETTER SPF (UNLESS OTHERWISE NOTED).

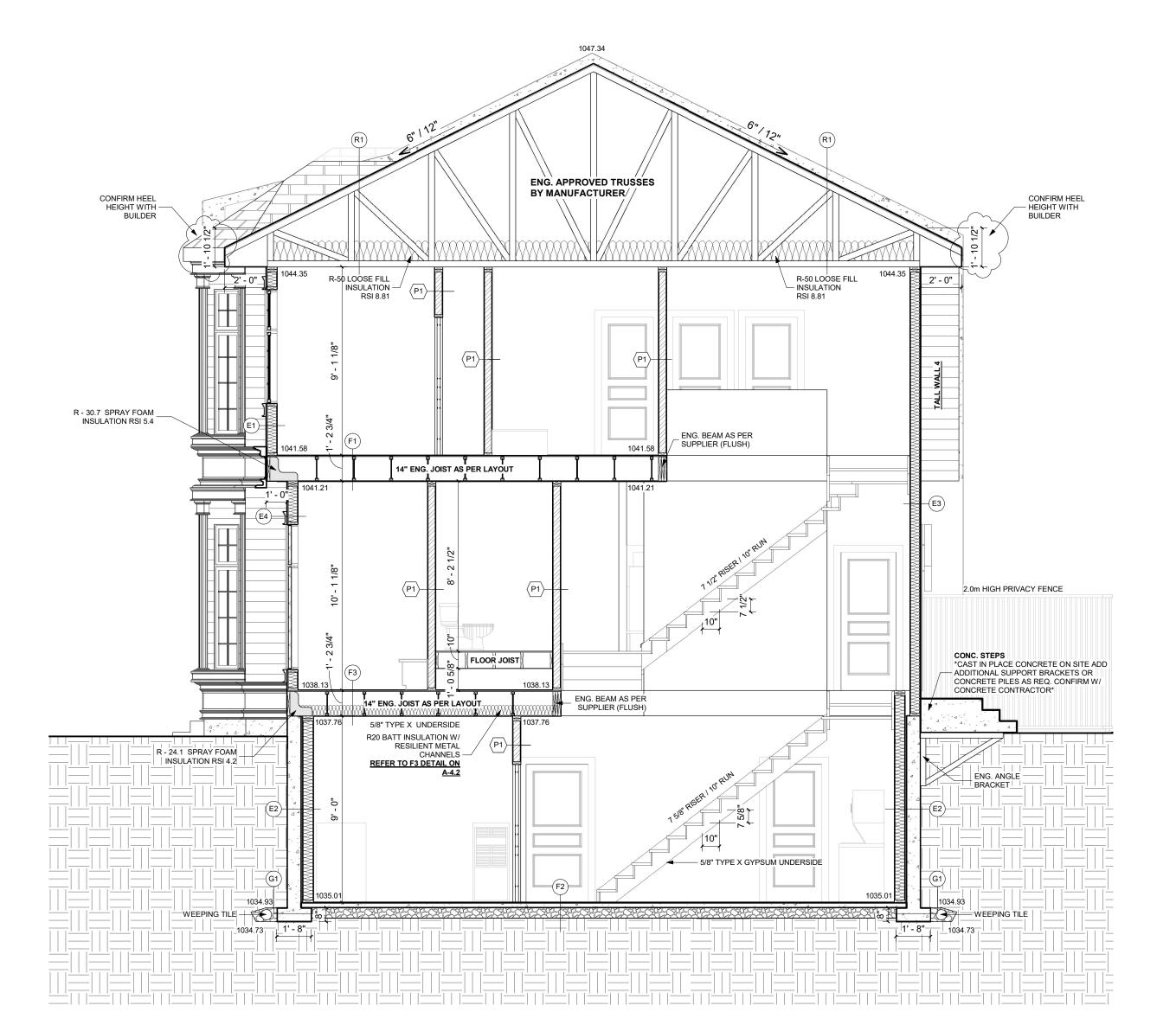
5. 2 LBS SPRAY FOAM APPLIED TO ALL RIM JOISTS, CANTILEVERS AND EXPOSED FLOORS SUCH AS ROOF DECKS - UNLESS NOTED.

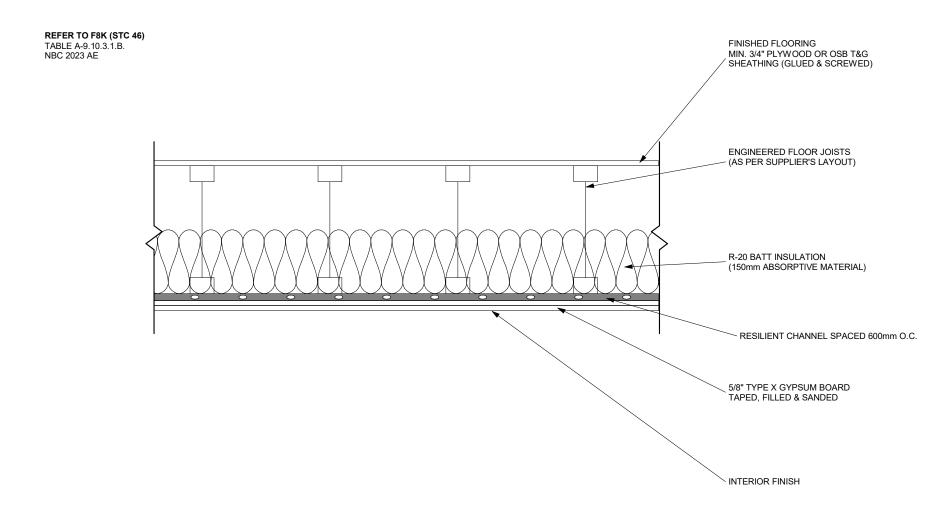
6. ALL FLAT ROOF AREAS TO HAVE FLOOR BUILT WITH A MIN. 2% SLOPE SO MEMBRANE CAN SLOPE TO EXTERIOR - CONTRACTOR TO CONFIRM SCUPPER LOCATION WITH DESIGNER.

7. FLASHING REQUIRED AT HORIZONTAL JUNCTIONS AND EXTERIOR OPENINGS AS PER NBC (AE) 2023 8. "H" CLIPS REQUIRED OR ROOFING SHEATHING AS PER NATIONAL BUILDING CODE (AE) 2023. 9. ICF/SNOW STOP/GUARD TO BE INSTALLED AS PER MANUFACTURER ON ALL METAL ROOF SLOPE AS PER NBC 2023 AE.

SPRAY FOAM NOTES: CCMC#14140-L -2LBS SPRAY FOAM INSULATION TO BE USED OF RIM JOISTS -FRAME TOP OF MAIN FLOOR WINDOWS TO MATCH HEIGHT OF EXT DOOR AND TRANSOM UNLESS NOTED -ALL SIDEYARD CANTILEVERS MUST BE DRYWALLED W/ 5/8 DRYWALL & NON VENTING SOFFIT ON UNDERSIDE, NAILING PATTERN TO BE 6" OC ON PERIMETER AND 8" OC IN THE FIELD-GALVANISED NAILS TO BE USED

CONTRACTOR/BUILDER TO CONFIRM HEEL HEIGHT & ROOF DETAILS PRIOR TO ORDERING WITH THE MANUFACTURER ANY ISSUE MUST BE RESOLVED WITH





F3 DETAIL SCALE: NTS

INTERIOR WALL ASSEMBLIES: (NOTE: ALL INTERIOR WALLS TO HAVE PRESSURE TREATED BOTTOM PLATES)

P1 INTERIOR FINISH
1/2" STANDARD GYPSUM BOARD 2X4 STUDS @ 24" O.C. 1/2" STANDARD GYPSUM BOARD (& 1/2" BLUE BOARD FACING TUB/SHOWER AS REQUIRED) INTERIOR FINISH

P2 INTERIOR FINISH
1/2" STANDARD GYPSUM BOARD 2X6 STUDS @ 24" O.C. 1/2" STANDARD GYPSUM BOARD (& 1/2" BLUE BOARD FACING TUB/SHOWER AS REQUIRED) INTERIOR FINISH

P3 REFER TO W13a (STC 57); TABLE A-9.10.3.1A: TABLE A-9.10.3.1A; NBC (AE) 2023 INTERIOR FINISH 5/8" TYPE X GYPSUM BOARD
TAPED & SANDED

2X4 STUDS @ 24" O.C. (SEE ENG. DETAILS
FOR STUD SIZE AT TALL WALLS) FOR STUD SIZE AT TALL WALLS)
MIN. R12 BATT INSULATION
1" AIR SPACE
MIN. R12 BATT INSULATION
2X4 STUDS @ 24" O.C. (SEE ENG.DETAILS
FOR STUD SIZE AT TALL WALLS)
5/8" TYPE X GYPSUM BOARD TAPED & SANDED (& 1/2" BLUE BOARD FACING TUB/SHOWER AS REQUIRED)
INTERIOR FINISH

P4 INTERIOR FINISH
1/2" STANDARD GYPSUM BOARD
TAPED & SANDED R12 FIBERGLASS BATT INSULATION 2X4 STUDS @24" O.C. 2X4 STUDS @24" O.C.

1" AIR SPACE
8" SITECAST TYPE S MONOLITHIC CONCRETE
WALL, REFER TO TABLE D-2.1.1. NBC (AE) 2023

1" AIR SPACE
2Y4 STUDS @ 24" O.C.

SIMILAR TO "E1"
2X6 WOOD STUDS @ 16" O.C.
(UNLESS OTHERWISE NOTED)
R-24 BATT INSULATION MIN. 1/2" STANDARD GYPSUM BOARD
TAPED & SANDED FOR PAINTING (1/2" BLUE BOARD FACING TUB/SHOWER AS REQUIRED)

P5 INTERIOR FINISH
1/2" STANDARD GYPSUM BOARD
TAPED & SANDED
R20 FIBERGLASS BATT INSULATION
2X6 STUDS @24" O.C. AIR SPACE
8" SITECAST TYPE S MONOLITHIC CONCRETE WALL, REFER TO TABLE D-2.1.1. NBC (AE) 2023 1" AIR SPACE 2X6 STUDS @ 24" O.C. R20 FIBERGLASS BATT INSULATION 1/2" STANDARD GYPSUM BOARD
TAPED & SANDED FOR PAINTING (1/2" BLUE BOARD FACING TUB/SHOWER AS REQUIRED)

EXTERIOR WALL ASSEMBLIES: (NOTE: FIRE RATED EXTERIOR SHEATHING PRODUCT TO BE INSTALLED ON ALL EXTERIOR WALLS DURING CONSTRUCTION AS PER NBC (AE) 2023)

HARDIE OR EQUIVALENT (AS PER ELEV. DRAWING) AS PER MANUFACTURER'S SPECS. 2-PLY BUILDING PAPER 3/8" PLY OR OSB SHEATHING (FIRE RESISTANCE OSB AS REQ'D FOR AFC-5.6.1.2)
2X6 WOOD STUDS @ 24" O.C. (UNLESS OTHERWISE NOTED)
R-22 BATT INSULATION MIN. 6 MIL. (0.15mm) POLY VAPOUR BARRIER (WARM SIDE OF STUD) 1/2" CONTROLLED DENSITY GYPSUM BOARD TAPED, FILLED, & SANDED FOR PAINTING (1/2' BLUE BOARD FACING TUB/ SHOWER AS REQUIRED)
INTERIOR FINISH

> SMOOTH PARGING ABOVE GRADE WATER PROOFING/DAMP PROOFING BELOW GRADE, INCLUDING TOP OF FOOTING BOTH SIDES 0F WALL
> 8" SITECAST CONC. ON DAMP PROOFING
> CAPILLARY BREAK IN FOOTING
> KEYWAY AIR SPACE
> 2X6 STUDS @ 24" O.C.
> R-20 FIBERGLASS BATT INSULATION
> 6 MIL. (0.15mm) POLY VAPOUR BARRIER (WARM SIDE OF STUD) 1/2" CONTROLLED DENSITY GYPSUM BOARD TAPED, FILLED, & SANDED FOR PAINTING (1/2 BLUE BOARD FACING TUB/

SHOWER AS REQUIRED)

TRUSS ASSEMBLIES:

5/8" EXTERIOR GRADE TYPE X GYPSUM BOARD TAPED
ENGINEERED ROOF TRUSS (AS PER

ENGINEERED ROOF TRUSS (AS PER SUPPLIER'S LAYOUT) PARALLEL TO PARTY WALL 8" SITECAST TYPE S MONOLITHIC CONCRETE NBC (AE) 2023 1" AIR SPACE ENGINEERED ROOF TRUSS (AS PER SUPPLIER'S LAYOUT) PARALLEL
TO PARTY WALL
5/8" EXTERIOR GRADE TYPE X GYPSUM

BOARD TAPED

ROOF ASSEMBLIES: ASPHALT SHINGLES OR EQUIVALENT ROOFING FELT 3/8" PLYWOOD OR OSB SHEATHING C/W H-CLIPS ENGINEERED ROOF TRUSSES (AS PER SUPPLIERS LAYOUT)
MIN. R50 LOOSE-FILL OR
FIBERGLASS BATT INSULATION

E3 TALL WALL CONSTRUCTION SEE TALL WALL DETAIL

INTERIOR FINISH

F1) FINISHED FLOORING
MIN. 3/4" PLYWOOD OR OSB T&G
SHEATHING (GLUED & SCREWED)
ENGINEERED FLOOR JOISTS
(AS PER SUPPLIER'S LAYOUT) SUPPLIER'S LAYOUT) PARALLEL
TO PARTY WALL
5/8" EXTERIOR GRADE TYPE X GYPSUM
BOARD TAPED 1/2" CONTROLLED DENSITY GYPSUM
BOARD TAPED, FILLED & SANDED INTERIOR FINISH 5/8" EXTERIOR GRADE TYPE X GYPSUM BOARD TAPED BOARD TAPED

3" CONC. SLAB
MIN. 6 MIL VAPOUR BARRIER MUST BE
BETWEEN POURED AND BASE 6" COMP. GRAVEL WALL, REFER TO TABLE D-2.1.1.

FLOOR ASSEMBLIES:

REFER TO F8k (STC 46);
TABLE A-9.10.3.1.-B NBC 2023 AE
FINISHED FLOORING
MIN. 3/4" PLYWOOD OR OSB T&G SHEATHING (GLUED & SCREWED) ENGINEERED FLOOR JOISTS (AS PER SUPPLIER'S LAYOUT)
MIN. R-28 BATT INSULATION RESILIENT CHANNEL SPACED 400mm O.C. 1/2" CONTROLLED DENSITY GYPSUM BOARD TAPED, FILLED & SANDED INTERIOR FINISH

FOOTING ASSEMBLIES:

G1 WALL 20"X8" THICK
CONCRETE STRIP FOOTING C/W
4-10M REBAR CONTINUOUS WALL 30"X8" THICK CONCRETE STRIP FOOTING C/W 4-10M REBAR CONTINUOUS 6 MIL. (15mm) POLY VAPOUR BARRIER (CAN/CGSB) 1/2" CONTROLLED DENSITY GYPSUM BOARD TAPED, FILLED, & SANDED

WALL 54"X12" THICK CONCRETE STRIP FOOTING C/W REBAR AS PER STRUCT.

GENERAL NOTES:

MUNICIPAL ADDRESS: 2502 16a Street S.E. CALGARY, ALBERTA

PROJECT: FOUR UNIT ROWHOUSE

PROJECT NUMBER:

STATUS:

174-23

CONCEPT

LEGAL LAND DESCRIPTION:

LOT: BLOCK: PLAN:

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02.	06/12/23	REVISIONS	AD.	
03.	13/05/24	BP PLANS	S.P.	
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OOR AREAS:	
AIN FLOOR AREA:	SQ.FT.
PPER FLOOR AREA:	SQ.FT.
PFT FLOOR AREA:	SQ.FT.
OTAL ABOVE GRADE:	SQ.FT.
SEMENT AREA:	SQ.FT.
ARAGE AREA:	SQ.FT.
RAWING SET:	
IEET NAME:	

DESIGN BY: DRAWN BY:

LAST REVISION DATE: 2024-06-18 1:34:30 PM

Section 1

GENERAL NOTES:

1. DAMPROOFING REQUIRED AT FOUNDATION WALLS AS PER NBC 2023 AE.

2. DAMPROOFING REQUIRED BELOW SLAB AS PER NBC 2023 AE.

3. DOUBLE SILL PLATE REQUIRED IF CONCRETE FLOOR FINISHED IS USED.

4. LINTELS TO BE FRAMED TO MEET NBC 2023 AE:

-LINTELS OVER OPENING </= 6'-0" TO BE 2-2X8 #2 OR BETTER SPF.

-LINTELS OVER OPENINGS > 6'-0" TO BE 2-2X10 #2 OR BETTER SPF.

(UNLESS OTHERWISE NOTED).

2 LBS SPRAY FOAM APPLIED TO ALL RIM JOISTS, CANTILEVERS AND EXPOSED FLOORS SUCH AS ROOF DECKS - UNLESS NOTED.
 ALL FLAT ROOF AREAS TO HAVE FLOOR BUILT WITH A MIN. 2% SLOPE SO MEMBRANE CAN SLOPE TO EXTERIOR - CONTRACTOR TO CONFIRM SCUPPER LOCATION WITH DESIGNER.
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 "H" CLIPS REQUIRED OR ROOFING SHEATHING AS PER NATIONAL BUILDING CODE (AE) 2023.
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SPRAY FOAM NOTES: CCMC#14140-L
-2LBS SPRAY FOAM INSULATION TO BE USED OF RIM JOISTS
-FRAME TOP OF MAIN FLOOR WINDOWS TO MATCH HEIGHT
OF EXT DOOR AND TRANSOM UNLESS NOTED
-ALL SIDEYARD CANTILEVERS MUST BE DRYWALLED W/ 5/8
DRYWALL & NON VENTING SOFFIT ON UNDERSIDE,
NAILING PATTERN TO BE 6" OC ON PERIMETER AND 8" OC IN
THE FIELD-GALVANISED NAILS TO BE USED

CONTRACTOR/BUILDER TO CONFIRM HEEL HEIGHT & ROOF DETAILS PRIOR TO ORDERING WITH THE MANUFACTURER. ANY ISSUE MUST BE RESOLVED WITH THE DESIGNER BEFORE PROCEEDING.

GENERAL NOTES:

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DRYWALL & NON VENTING SOFFIT ON UNDERSIDE,
NAILING PATTERN TO BE 6" OC ON PERIMETER AND 8" OC IN
THE FIELD-GALVANISED NAILS TO BE USED

AS PER NBC 2023 AE.

CONTRACTOR/BUILDER TO CONFIRM HEEL HEIGHT & ROOF DETAILS PRIOR TO ORDERING WITH THE MANUFACTURER. ANY ISSUE MUST BE RESOLVED WITH THE DESIGNER BEFORE PROCEEDING.

CONFIRM HEEL CONFIRM HEEL HEIGHT WITH -- HEIGHT WITH BUILDER R-50 LOOSE FILL INSULATION INSULATION -INSULATION -INSULATION -ENG. BEAM AS PER ENG. BEAM AS PER ENG. BEAM AS PER ENG. BEAM AS PER SUPPLIER (FLUSH) SUPPLIER (FLUSH) SUPPLIER (FLUSH) R - 24.1 SPRAY FOAM 14" ENG. JOIST AS PER LAYOUT INSULATION RSI 4.2 2' - 6 1/2" ENG. BEAM AS PER ENG. BEAM AS PER ENG. BEAM AS PER ENG. BEAM AS PER SUPPLIER (FLUSH) SUPPLIER (FLUSH) R - 24.1 SPRAY FOAM INSULATION RSI 4.2 $_{
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4' - 6"



GENERAL NOTES:

MUNICIPAL ADDRESS: 2502 16a Street S.E. CALGARY, ALBERTA

PROJECT: FOUR UNIT ROWHOUSE

PROJECT NUMBER: 174-23

STATUS:

CONCEPT

LEGAL LAND DESCRIPTION: LOT: BLOCK: PLAN:

DO NOT SCALE DRAWINGS.
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REGISTERED PROFESSIONAL.

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SHEET NAME: Section 2 & 3

1' - 8" 1034.73

DESIGN BY: DRAWN BY:

LAST REVISION DATE: 2024-06-18 1:34:33 PM

SCALE: 1/4" = 1'-0"

A A A

AS PER SECTION 9.36.2.10 - NOTES PERTAINING TO LEAKAGE PATHS IN PROBLEMATIC AREAS

FOUNDATION TO SILL PLATE AND RIM JOISTS
ALL JOINTS AT THE TRANSITION BETWEEN THE FOUNDATION WALL AND JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS, OR COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER MATERIAL

INTERIOR WAL INTERFACE
INTERIOR WALLS THAT MEET EXTERIOR WALLS OR CEILINGS WITH AN INTERIOR PLANE OF AIR TIGHTNESS MUST BE MADE AIRTIGHT BY EITHER SEALING ALL JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS, COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER MATERIAL OR MAINTAINING THE CONTINUITY OF THE AIR BARRIER SYSTEM THROUGH THE INTERIOR WALL.

RIM JOIST
ALL JOINTS AT THE THE RIM JOIST ASSEMBLY MUST BE MADE AIRTIGHT BY

AIRTIGHT BY SEALING ALL JOINTS AND JOING
MATERIAL IN THE WALL AND THE SKYLIGHT. SEALING ALL JOINTS AND JUCTIONS BETWEEN THE STRUCTURAL COMPONENTS, OR COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER MATERIAL.

CANTILEVERED FLOORS
CANTILEVERED FLOORS AND FLOORS OVER UNHEATED SPACES/EXTERIOR
WITH AN AIR BARRIER MATERIAL. SPACE MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS AND/OR COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER MATERIAL AND SEALING DUCT PENETRATIONS THROUGH THE BUILDING ENVELOPE MUST HAVE AN IT TO THE ADJACENT AIR BARRIER MATERIAL.

THE INTERFACE BETWEEN WINDOW HEAD/JAMB AND WALL ASSEMBLY THE AIR BARRIER IN THE WALL AND WINDOW. THE REQUIREMENT ALSO APPLIES TO DOORS AND SKYLIGHTS.

WINDOW SILL
THE INTERFACE BETWEEN WINDOW SILL AND WALL ASSEMBLY MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE AIR BARRIER METERIAL IN THE WALL AND THE WINDOW. THE REQUIREMENT ALSO APPLIES TO DOORS AND SKYLIGHTS.

<u>"E4" ABOVE GROUND WALL DETAIL & CLIMATE ZONE 7A</u>

ENERGY WALL ASSEMBLY DETAIL

MINIMUM REQUIRED EFFECTIVE THERMAL RESISTANCE =RSI 2.97

STEEL-LINED CHIMNEYS THAT PENETRATE THE BUILDING ENVELOPE MUST BE MADE AIRTIGHT BY BLOCKING THE VOID BETWEEN REQUIRED CLEARANCES FOR AND THEABOVE GRADE WALL MUST BE AIR-TIGHT BY SEALING ALL JOINTS METAL CHIMNEYS AND SURROUNDING CONSTRUCTION WITH SHEET METAL AND SEALANT CAPABLE OF WITHSTANDING HIGH TEMPERATURES

PLUMBING STACKS
PLUMBING VENT STACK PIPES THAT PENETRATES THE BUILDING ENVELOPE MUST BE MADE AIRTIGHTBY EITHER SEALING THE AIR BARRIER MATERIAL TO THE VENT STACK PIPE WITH A COMPATIBLE MATERIAL OR SHEATHING TAPE, OR INSTALLING A RUBBER GASKET OR PREFABRICATED ROOF FLASHING AT THE PENETRATION OF THE PLANE OF AIRTIGHNESS AND SEALING IT TO THE TOP PLATE

<u>SKYLIGHTS</u> THE INTERFACE BETWEEN THE SKYLIGHT AND WALL ASSEMBLY MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE AIR BARRIER

WALL TO CEILING ALL JOINTS AT THE TRANSITION BETWEEN THE ABOVE GRADE WALL AND CEILING MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUCTIONS BETWEEN THE STRUCTURAL COMPONETS AND/OR COVERING THE STRUCTURAL COMPONENTS

AIRTIGHT SEAL.

ELECTRICAL PENETRATION IN WALLS ELECTRICAL PENETRATIONS IN WALLS, INCLUDING ELECTRICAL OUTLETS, WIRING, MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUCTIONS BETWEEN SWITCHES, AND RECESSED FIXTURES THROUGH THE PLANE OF AIRTIGHTNESS MUST BE AIRTIGHT. OPTIONS INCLUDE USING A COMPONENT THAT IS DESIGNED TO BE AIRTIGHT AND SEALING IT TO THE ADJACENT AIR BARRIER MATERIAL, OR BY COVERING THE COMPONET WITH AN AIR BARRIER MATERIAL AND SEALING IT TO THE ADJACENT AIR BARRIER MATERIAL.

TRANSMITTANCE (U-VALUE) NOT

GREATER THAN THE VALUES LISTED IN

CODE 2023 AE) FOR THE APPLICABLE

CLIMATE ZONE 7A MAXIMUM U-VALUE

DOOR TO GARAGE

ACCESS HATCH

FRONT DOOR

GLASS BLOCK

O.H. GARAGE DOOR

SPECIFIC REQUIREMENTS:

EXTERIOR WALL INSULATION REQUIREMENTS

-EFFECTIVE INSULATION OF CEILING, WALLS, AND FLOORS MEET THE REQUIREMENTS OF TABLE 9.36.2.6.A AND TABLE 9.36.2.6.B FOR THE CORRECT CLIMATE ZONE -THE THERMAL CHARACTERISTICS OF WINDOWS, DOOR AND SKYLIGHTS MEET THE REQUIREMENTS OF TABLE 9.36.2.7.A,B AND C FOR THE CORRECT CLIMATE ZONE

-EFFECTIVE INSULATION OF FOUNDATIONS MEET THE REQUIREMENTS OF TABLE 9.36.2.8.A OR B FOR THE CORRECT CLIMATE ZONE -DUCTS LOCATED OUTSIDE THE THERMAL ENCLOSURE ARE SEALED AND INSULATED TO THE

-DAMPERS ARE INSTALLED AT AIR INLETS AND EXHAUSTS WHERE REQUIRED -PIPING FOR HEATING OR COOLING SYSTEM IS LOCATED WITHIN THE THERMAL ENCLOSURE

OR ARE FULLY INSULATED -HVAC EQUIPMENT IS LOCATED WITHIN THERMAL ENCLOSURE OR DESIGNATED TO BE

INSTALLED OUTSIDE OF THERMAL ENCLOSURE -TEMPERATURE CONTROLS ARE INSTALLED ON HEATING AND COOLING EQUIPMENT

-HVAC AND SWH EQUIPMENT MEET MINIMUM PERFORMANCE REQUIREMENTS DETERMINED IN TABLES 9.36.3.10 AND 9.36.4.2

-SERVICE WATER HEATING PIPES ARE INSULATED AT THE INLET AND OUTLET OF STORAGE

-SERVICE WATER HEATERS HAVE TEMPERATURE CONTROLS -THE AIR BARRIER DETAILS, AND LOCATIONS HAVE BEEN IDENTIFIED

VAPOUR BARRIER

3/4" PLYWOOD

SCREWED

FLOOR LAYOUT

SUBFLOOR GLUED & -

2" (50.8MM) EXTRUDED

POLYSTYRENE TYPE 3/4

R-24 BATT INSULATION

2X6 WOOD STUDS @ 16" O.C.

6 MIL. (0.15mm) POLY VAPOUR BARRIEF

SEALANT -

-INDOOR POOLS ARE COVERED OR HAVE AN HRV/DEHUMIDIFIER

-GAS FIRED FURNACE - LESS THAN 220 000 BTU/Hr (66kW) - ANNUAL FUEL USE EFFICIENCY (AFUE) MUST BE GREATER THAN OR EQUAL TO 92% **TEMPERATURE CONTROLS AS PER SECTION 9.36.3.6**

-THE TEMPERATURE CONTROLS ARE GENERALLY REQUIRED FOR HEATING AND COOLING EQUIPMENT. THE ACCURACY OF THE CONTROL MUST BE BETTER THAN PLUS OR MINUS 0.5

- 3/8" SHEATHING

- AIR BARRIER

INSULATION

- BUILDING

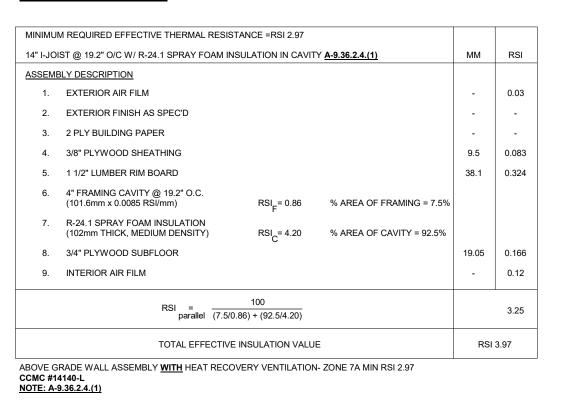
SHEATHING

— AIR BARRIER

- HARDIE BOARD

PAPER

RIM JOIST SPACING



"R1" CEILING BELOW ATTIC DETAIL & CLIMATE ZONE 7A

TOTAL EFFECTIVE INSULATION VALUE

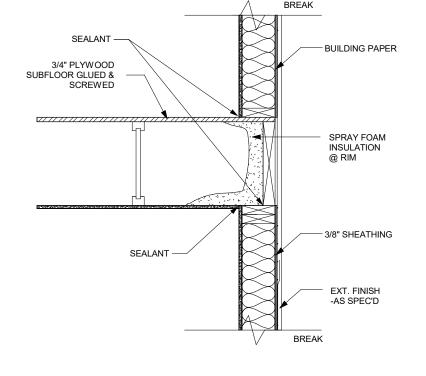
CEILING BELOW ATTIC ASSEMBLY WITH HEAT RECOVERY VENTILATION- ZONE 7A MIN RSI 8.67

ENERGY ROOF ASSEMBLY DETAIL

CALCULATION FOR COMMON TRUSS & SCISSOR TRUSS 2 X 6 STUDS @ 24" O/C

MINIMUM REQUIRED EFFECTIVE THERMAL RESISTANCE = RSI 8.67

5. R-50 LOOSE-FILL INSULATION / F.G. WHERE REQ'D



MAXIMUM OFFSET TO REACH FULL INSULATION VALUE

CANTILEVER (ROOF/FLOOR)

CANTIL EVERED FLOORS AND FLOORS OVER UNHEATED/EXTERIOR

SPACE MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND

JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS, OR

COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIFR

MATERIAL AND SEALING IT TO THE ADJACENT AIR BARRIER MATERIAL

6 MIL. (0.15mm) POLY

VAPOUR BARRIER

GYPSUM BOARD

AIR BARRIER

SHEATHING

EXT. FINISH

BARRIER

DRYWALL -

COVERING

5/8" TYPE "X"

(R1

0.03

0.08

0.083

TYVEK® HEADWRAP

OVER SHEATHING

AT TOP PLATE `

CONTINUOUS

LAYER OF LOOSE

469.9 8.81

0.11

RSI 9.19

0.03

A REDUCTION IN THE THERMAL RESISTANCE OF THE ATTIC INSULATION AT THE PERIMETER IS PERMITTED PROVIDED

RESISITANCE VALUE ABOVE THE EXTERIOR WALL IS AT

MEMBRANE TYPE EAVE PROTECTION

(48" HIGH MIN.) 3/8" PLYWOOD SHEATHING c/w H CLIPS

VENTILATION

SPACER 2 1/2" CLEARANCE

VENTED METAL SOFFIT

HEEL WOOD TRUSS (PREFERRED)

3/4" x 3" WOOD FURRING

(AS PER ELEVATION)

R-30.7 SPRAY FOAM

- 3/8" DENSGLASS

R-22 BATT INSULATION

- SUBFLOOR

— 2 PLY BUILDING PAPER

— 2x6 WOOD STUD @ 24" O.C.

1/2" GYPSUM BOARD

THE NSULATION IS CONSTRAINED ONLY BY THE ROOF SLOPE AND VENTING REQUIREMENTS AND MINIMUM THERMAL

JTA DESIGN + PERMIT

GENERAL NOTES:

MUNICIPAL ADDRESS: 2502 16a Street S.E. CALGARY, ALBERTA

PROJECT: FOUR UNIT ROWHOUSE

PROJECT NUMBER:

174-23

STATUS: CONCEPT

LEGAL LAND DESCRIPTION: BLOCK: PLAN: LOT:

DO NOT SCALE DRAWINGS. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSULTANT DRAWINGS CONTRACTOR IS TO CONFIRM AND COORDINATE ALL DETAILS WITH SITE CONDITIONS AND OTHER CONSULTANT DRAWINGS PRIOR TO STARTING

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NO.	DATE(D/M/Y)	DETAIL	BY
01.	12/09/23	DP PLANS	K.C.
02.	06/12/23	REVISIONS	AD.
03.	13/05/24	BP PLANS	S.P.
04.	-	1	
05.		-	

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FLOOR AREAS:

MAIN FLOOR AREA:

LOFT FLOOR AREA:

UPPER FLOOR AREA: -- SQ.FT.

-- SQ.FT.

-- SQ.FT.

-- SQ.FT.

-- SQ.FT.

-- SQ.FT.

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OTAL ABOVE GRADE

BASEMENT AREA:

DRAWING SET:

GARAGE AREA:

SHEET NAME: Above Ground & Roof Detail

DESIGN BY:

LAST REVISION DATE:

DRAWN BY:

SCALE:

RIM JOIST DETAIL

ASSEMBLY DESCRIPTION

3/8" PLYWOOD

AIR FILM

ROOF DETAIL SCALE: NTS

EXTERIOR AIR FILM

7. 1/2" GYPSUM BOARD

8. INTERIOR AIR FILM

2. ROOFING (ASPHALT SHINGLES)

(469.9mm X 0.01875 RSI/mm

6. 6 MIL. (0.15mm) POLY VAPOUR BARRIER

THE THERMAL BRIDGING EFFECT OF CLOSELY SPACED REPETITIVE STRUCTURAL FENESTRATION (WINDOWS) AND MEMBERS LIKE STUDS & JOISTS. DOORS TO HAVE AN OVERALL THERMAL

AND OF ANCHILLARY MEMBERS

LIKE LINTELS SILLS AND PLATES MUST BE ACCOUNTED

FOR WHEN CALCULATING THE

THERMAL RESISTANCE OF A

BUILDING ENVELOPE

ASSEMBLIES

FENESTRATION (WINDOWS AND

ANSMITTANCE (U-VALUE) NOT

DOORS TO HAVE AN

GREATER THAN THE VALÚES

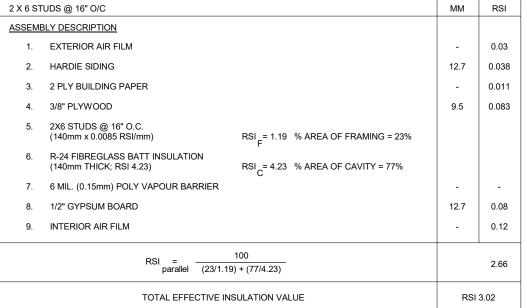
ISTED IN TABLE 9.36.2.7 A FOR

CLIMATE ZONE 7A THE U VALUE

MUST BE 1.60, WITH A MIN

ENERGY RATING OF 25

OVERALL THERMAL



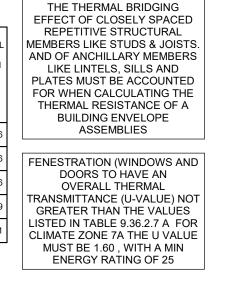
ABOVE GRADE WALL ASSEMBLY $\underline{\textit{WITH}}$ HEAT RECOVERY VENTILATION- ZONE 7A MIN RSI 2.97

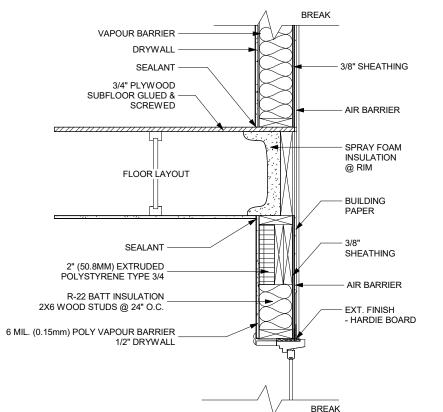
"E4" ABOVE GROUND WALL DETAIL (HARDIE)
SCALE: NTS

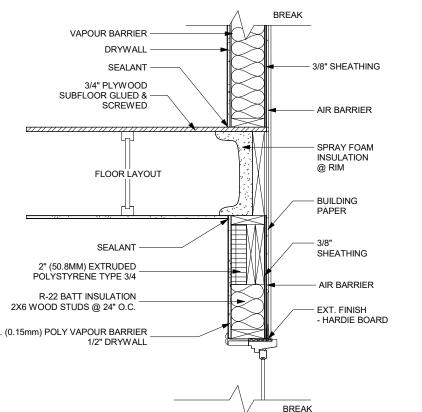
"F1" ABOVE GROUND WALL DETAIL & CLIMATE ZONE 74

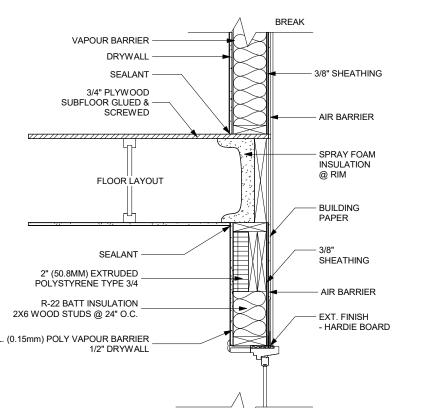
MINIMU	M REQUIRED EFFECTIVE THERMAL RESISTANCE =RSI 2.97		
2 X 6 S1	TUDS @ 24" O/C	ММ	F
ASSEM	BLY DESCRIPTION		
1.	EXTERIOR AIR FILM	-	0
2.	HARDIE SIDING	12.7	0.
3.	2 PLY BUILDING PAPER	-	0.
4.	3/8" PLYWOOD	9.5	0.
5.	2X6 STUDS @ 24" O.C. (140mm x 0.0085 RSI/mm)	= 20%	
6.	R-22 FIBREGLASS BATT INSULATION (140mm THICK; RSI 3.87) RSI C = 3.87 % AREA OF CAVITY = 8	60%	
7.	6 MIL. (0.15mm) POLY VAPOUR BARRIER	-	
8.	1/2" GYPSUM BOARD	12.7	0
9.	INTERIOR AIR FILM	-	0
	RSI = 100 parallel (20/1.19) + (80/3.87)		2
	TOTAL EFFECTIVE INSULATION VALUE	RS	3.03

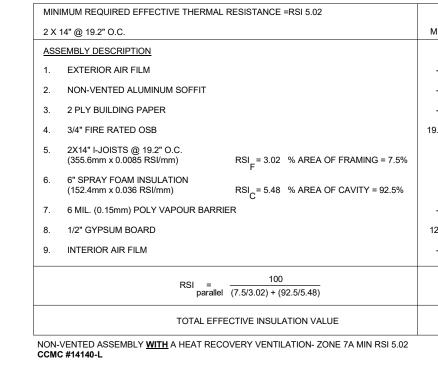
FENESTRATION (WINDOWS) AND DOORS TO HAVE AN OVERALL THERMAL TRANSMITTANCE (LLVALUE) NOT GREATER THAN THE VALUES LISTED IN TABLE 9.36.2.7.A (NATIONAL BUILDING CODE 2023 AE) FOR THE APPLICABLE HEATING DEGREE-DAY CATEGORY CLIMATE ZONE 7A MAXIMUM U-VALUE DOOR TO GARAGE USI 1.6 ACCESS HATCH RSI 2.6 FRONT DOOR USI 1.6 GLASS BLOCK O.H. GARAGE DOOR RSI 1.











FLOOR SPACE AT CANTILEVER CLIMATE ZONE 7A

ENERGY FLOOR ASSEMBLY DETAIL

CANTILEVER DETAIL SCALE: NTS

2 X 6 S1	TUDS @ 24" O/C		MM	RSI
	BLY DESCRIPTION			
HOOEIVII				
1.	EXTERIOR AIR FILM		-	0.03
2.	HARDIE SIDING		12.7	0.038
3.	2 PLY BUILDING PAPER		-	0.011
4.	3/8" PLYWOOD		9.5	0.083
5.	2X6 STUDS @ 24" O.C. (140mm x 0.0085 RSI/mm) RSI_=	= 1.19 % AREA OF FRAMING = 20%		
6.	R-22 FIBREGLASS BATT INSULATION (140mm THICK; RSI 3.87)	= 3.87 % AREA OF CAVITY = 80%		
7.	6 MIL. (0.15mm) POLY VAPOUR BARRIER		-	-
8.	1/2" GYPSUM BOARD		12.7	0.08
9.	INTERIOR AIR FILM		-	0.12
	RSI = 100 parallel (20/1.19) + (80/3	.87)		2.67
	TOTAL EFFECTIVE INSULATION	ON VALUE	RSI	3.03

CCMC #14140-L

"E1" ABOVE GROUND WALL DETAIL (HARDIE)

19.05 0.16 12.7 0.08 0.16 5.16 RSI 5.54

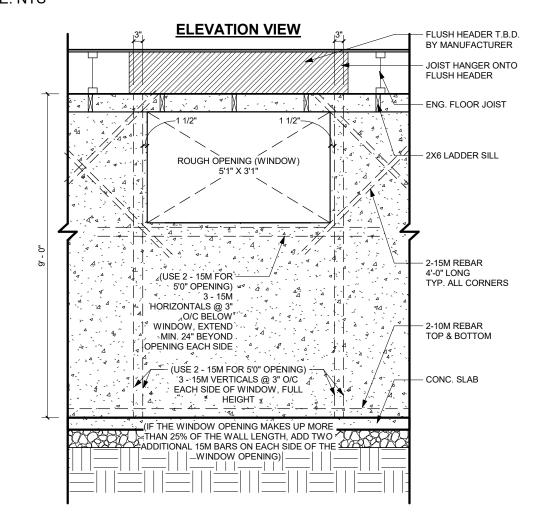
AS SHOWN

FOUNDATION DETAIL & CLIMATE ZONE 7A ENERGY WALL ASSEMBLY DETAIL

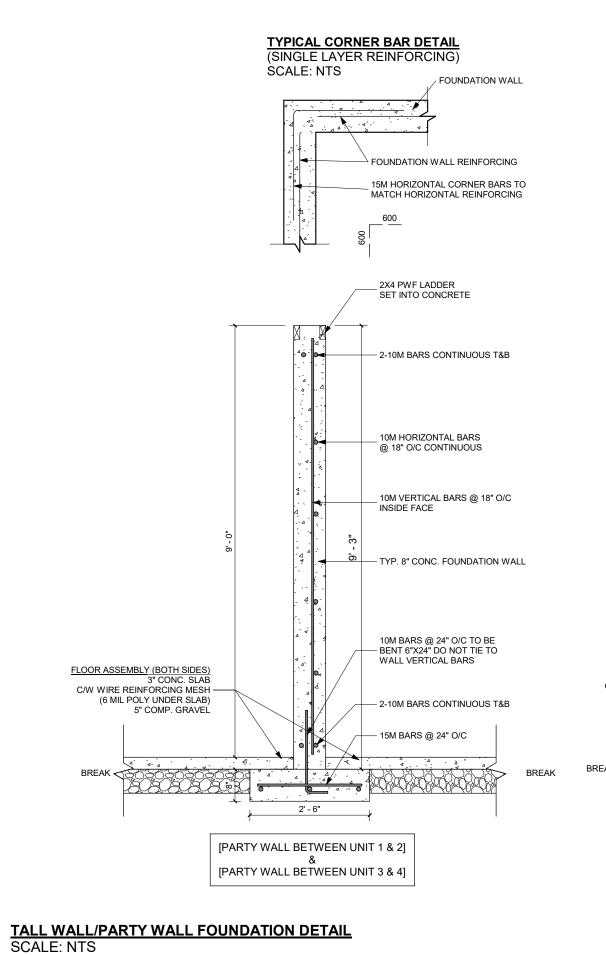
MINIMUM	REQUIRED EFFECTIVE THERMAL RESISTANCE =RSI 2.98		
2 X 6 STU	IDS @ 24" O/C	ММ	RSI
ASSEMBL	ASSEMBLY DESCRIPTION		
1.	EXT. WATER/DAMPPROOFING	-	-
2.	CONCRETE WALL	203	0.08
3.	AIR CAVITY IN FRAMING	25.4	0.18
4.	2X6 STUDS @ 24" O.C. (140mm x 0.0085 RSI/mm)		
5.	R-20 FIBERGLASS BATT INSULATION (140mm THICK; RSI 3.52) RSI =3.34 % AREA OF CAVITY=87%		
6.	6 MIL. (0.15mm) POLY VAPOUR BARRIER	_	-
7.	1/2" GYPSUM WALL BOARD	12.7	0.08
8.	INTERIOR AIR FILM	-	0.12
	$RSI_{\text{parallel}} = \frac{100}{(13/1.19) + (87/3.52)}$		
TOTAL EFFECTIVE INSULATION VALUE			.26

BELOW GRADE WALL ASSEMBLY **WITH** HEAT RECOVERY VENTILATION- ZONE 7A MIN RSI 2.98

"E2" FOUNDATION DETAIL SCALE: NTS



FOUNDATION WINDOW REINFORCEMENT DETAIL SCALE: NTS



FOUNDATION WALL REINFORCING 15M HORIZONTAL CORNER BARS TO MATCH HORIZONTAL REINFORCING 2X4 PWF LADDER - 2-10M BARS CONTINUOUS T&B GRADE 10M HORIZONTAL BARS @ 18" O/C CONTINUOUS 10M VERTICAL BARS @ 18" O/C INSIDE FACE TYP. 8" CONC. FOUNDATION WALL 10M BARS @ 24" O/C TO BE - BENT 6"X24" DO NOT TIE TO WALL VERTICAL BARS FLOOR ASSEMBLY 3" CONC. SLAB C/W WIRE REINFORCING MESH – (6 MIL POLY UNDER SLAB) — 2-10M BARS CONTINUOUS T&B 5" COMP. GRAVEĹ - 15M BARS @ 24" O/C 1' - 8" 3-15M CONTINUOUS BARS [EXTERIOR PERIMETER FOUNDATION]

NOTE: FOUNDATION WALL WITH STANDARD REINFORCING IS

ACCEPTABLE BELOW TALL WALL

/ FOUNDATION WALL

3/4" PLYWOOD SUBFLOOR GLUED &

2 - 2X10 LEDGE BOARD BOLTED TO

SEALANT -

1/2" DRYWALL

1" AIR SPACE

R-20 BATT INSULATION

2X6 FROST WALL C/W 5 MIL. POLY VAPOR BARRIER TO

WARM SIDE OF INSULATION

ALTERNATING

FOUNDATION W/ 1/2" DIA BOLT W/ HILTY 200 ADHESIVE MIN 5" EMBEDMENT @ 24"

STAPLE VAPOUR

TO U/S OF SUBFLOOR

RETARDER BETWEEN JOISTS &

25 MPA CONCRETE STRENGTH AT 28 DAYS C/W TYPE 50 CEMENT UNLESS RECOMMENDED OTHERWISE BY GEOTECHNICAL ENGINEER

3/8" PLY OR OSB SHEATHING

(FIRE RESISTANCE OSB AS REQ'D FOR AFC-5.6.1.2)

SPRAY FOAM INSULATION

SET INTO CONCRETE

@ 18" O/C CONTINUOUS

10M VERTICAL BARS @ 18" O/C

TYP. 8" CONC. FOUNDATION WALL

10M BARS @ 24" O/C TO BE BENT 6"X24" DO NOT TIE TO

2-10M BARS CONTINUOUS T&B

4" PROTECTED WEEPING TILE

CONNECTED TO SUMP PUMP

— 3-10M CONTINUOUS BARS

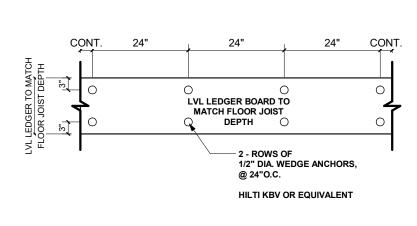
WALL VERTICAL BARS

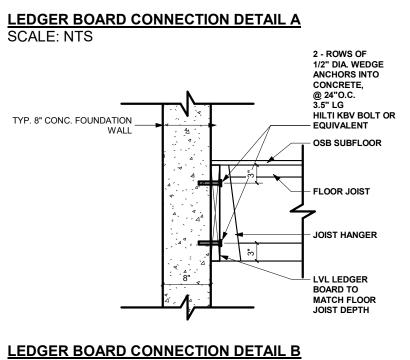
10M BARS @ 24" O/C

2-10M BARS CONTINUOUS T&B

SEALANT

GRADE

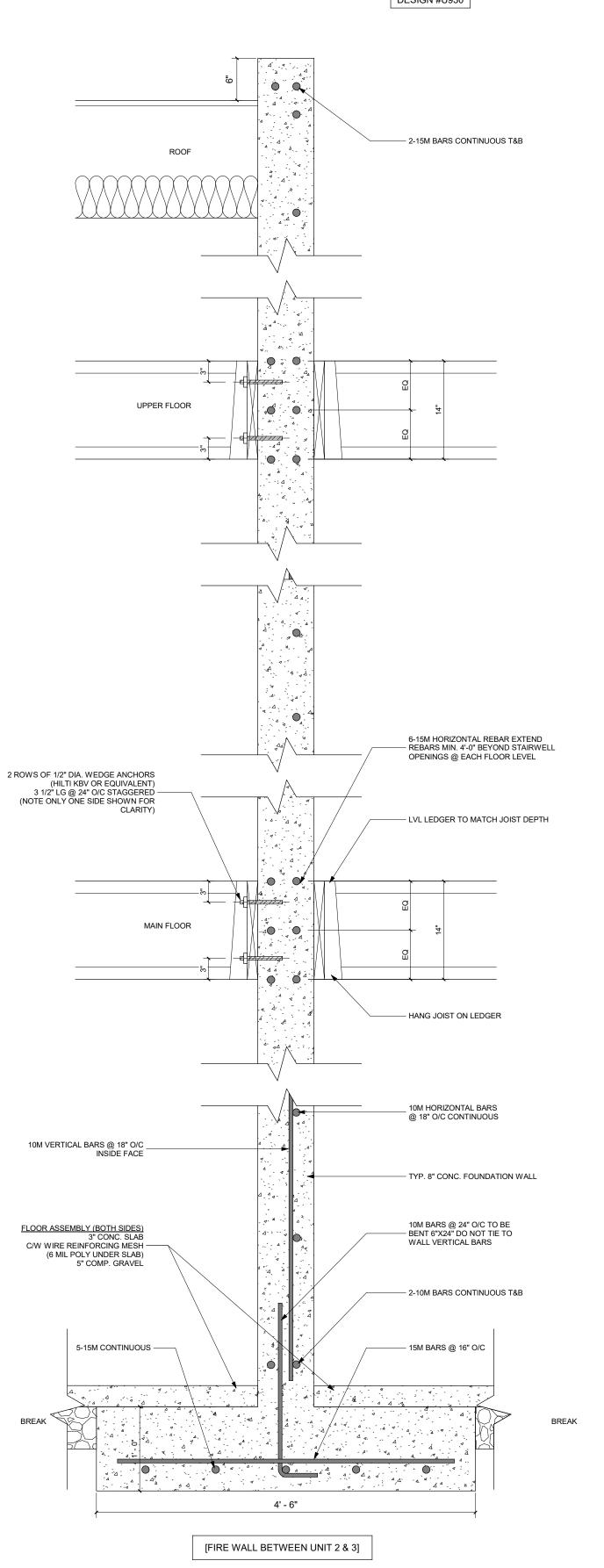


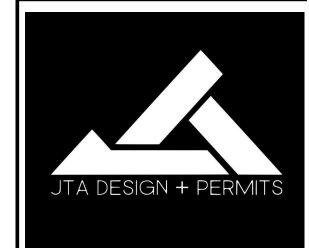


LEDGER BOARD CONNECTION DETAIL B
SCALE: NTS

25 MPA CONCRETE STRENGTH AT 28 DAYS C/W TYPE 50 CEMENT UNLESS RECOMMENDED OTHERWISE BY GEOTECHNICAL ENGINEER

> CAN/ULC-S101 DESIGN #U930





GENERAL NOTES:



MUNICIPAL ADDRESS: 2502 16a Street S.E. CALGARY, ALBERTA

PROJECT: FOUR UNIT ROWHOUSE

PROJECT NUMBER: 174-23

STATUS: CONCEPT

LEGAL LAND DESCRIPTION: LOT: BLOCK: PLAN:

DO NOT SCALE DRAWINGS. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSULTANT DRAWINGS CONTRACTOR IS TO CONFIRM AND COORDINATE ALL DETAILS WITH SITE CONDITIONS AND OTHER CONSULTANT DRAWINGS PRIOR TO STARTING CONSTRUCTION. JOHN TRINH & ASSOCIATES INC. ASSUMES NO

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EGISTERED PROFESSIONAL.				
Ο.	DATE(D/M/Y)	DETAIL	BY	
11.	12/09/23	DP PLANS	K.C.	
2.	06/12/23	REVISIONS	AD.	
3.	13/05/24	BP PLANS	S.P.	
4.		-		
7				

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PLUMBING ROUGH-IN NEEDS TO BE CONFIRMED BY TRADES/CONTRACTOR AND HOME OWNER. ANY SSUE NEEDS TO BE NOTIFIED TO THE DESIGNER TO BE RESOLVED BEFORE PROCEEDING

FLOOR AREAS: MAIN FLOOR AREA: -- SQ.FT. UPPER FLOOR AREA: -- SQ.FT. LOFT FLOOR AREA: -- SQ.FT. -- SQ.FT. TOTAL ABOVE GRADE: BASEMENT AREA: -- SQ.FT. GARAGE AREA: -- SQ.FT.

SHEET NAME: Foundation Detail

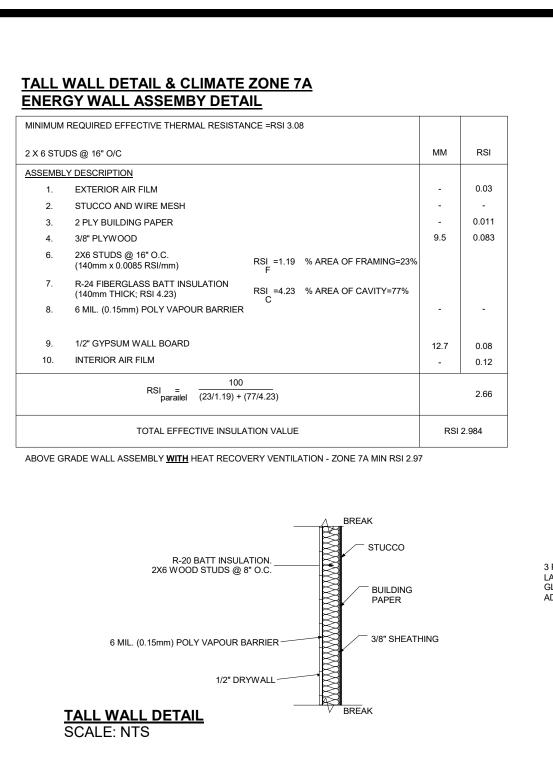
DRAWING SET:

DESIGN BY: DRAWN BY:

LAST REVISION DATE:

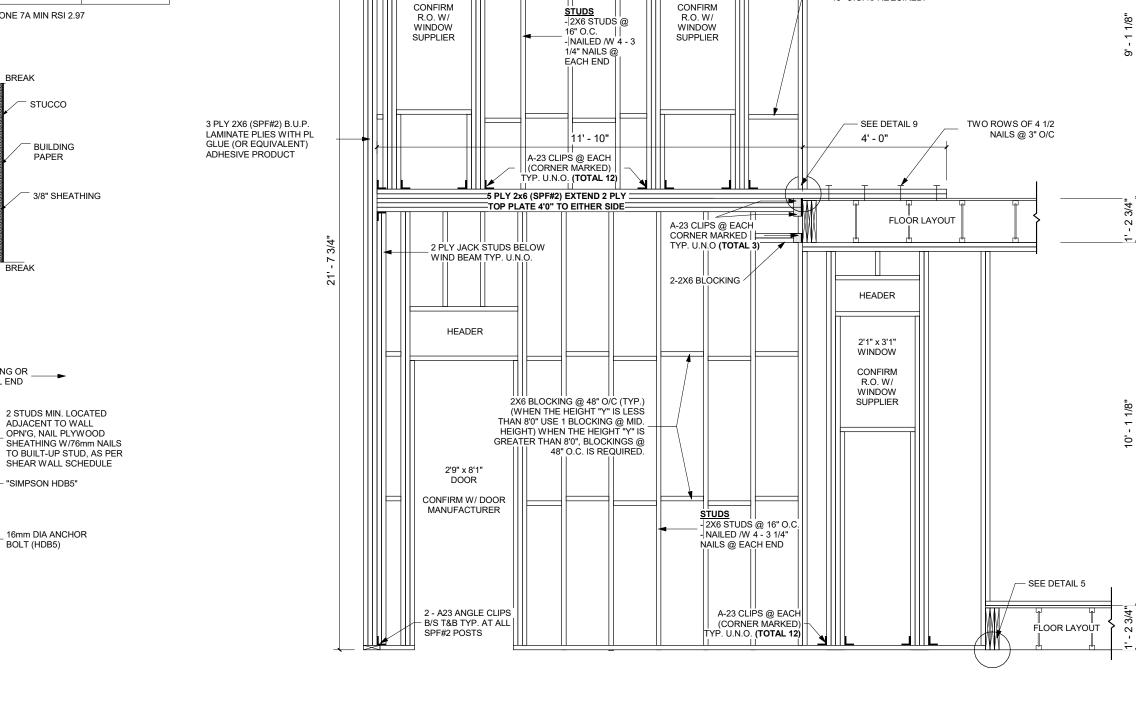
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OPENING OR

WALL END



ENGINEERED TALL WALL GENERAL NOTES:

4. STUDS, PLATES, JAMBS, AND LINTELS ARE ASSUMED TO BE SPF#2 OR BETTER,

WINDOW

1. ALL STUDS SHALL BE NAILED WITH MIN. 4 NAILS @ EACH STUD END USING 3 1/4" x 0.131" (12d) COMMON WIRE/SPIRAL (U.N.O.)

THREAD SHARP POINT SCREW @ 4" O.C. AT EDGES OF SHEATHING PANEL AND 8" O.C. ELSEWHERE.

5. PROVIDE STUDS UNDER GIRDER TRUSS LOCATION (NUMBER OF STUDS NEEDED = GIRDER PLIES +1).

8. THE TALL WALL HAVE BEEN DESIGNED IN ACCORDANCE WITH STANDATA AND THE NATIONAL BUILDING CODE (AE) 2023.
9. THIS ENGINEERED TALL WALL WILL BE ASSEMBLE ON SITE.

PLATE TO PLATE CONNECTION: USE 4 - 3 1/4" NAILS TO MATCH STUD SPACING

2. KING STUDS (MORE THAN 3 PLY) SHALL BE FASTENED USING SDS SIMPSON WOOD SCREWS (OR EQUIVALENT) @48" O.C. ON EACH SIDE STAGGERED OR THREADED ROD/THROUGH BOLT @48" O.C. 3. USE TWO A23 SIMPSON FRAMING ANGLES (OR EQUIVALENT) AT EACH KING STUD TO PLATE CONNECTOIN.

A. SHEATHED ON THE EXTERIOR WITH MIN. 3/8" OSB OR PLYWOOD SHEATHING OR 1/2" DRYWALL. OSB AND PLYWOOD SHEATHING TO BE NAILED WITH MIN. 1 1/2" STAPLES @ 4" O.C. AT EDGES OF SHEATHING PANEL AND 12" O.C. ELSEWHERE OR 2" COMMON WIRE NAILS @ 6: O.C. AT EDGES AND 12" O.C. ELSEWHERE. DRYWALL TO BE SCREWED WITH MIN. 1 1/4" DYWALL SCREWS AT 8" O.C. AT EDGES OF SHEATHING PANEL AND 12" O.C. ELSEWHERE. PROVIDE VERTICALWALL BLOCKING @ EVERY 4 FT O.C.. OR

B. SHEATHED ON THE EXTERIOR WITH 5/8" GYPSUM SHEATHING WITH VERTICAL WALL BLOCKING @ EVERY 4FT O.C.. SCREW WITH MIN. 15/8" BUGLE HEAD, RUST-RESISTANT, COARSE

HEADER

WINDOW

— SEE DETAIL 9

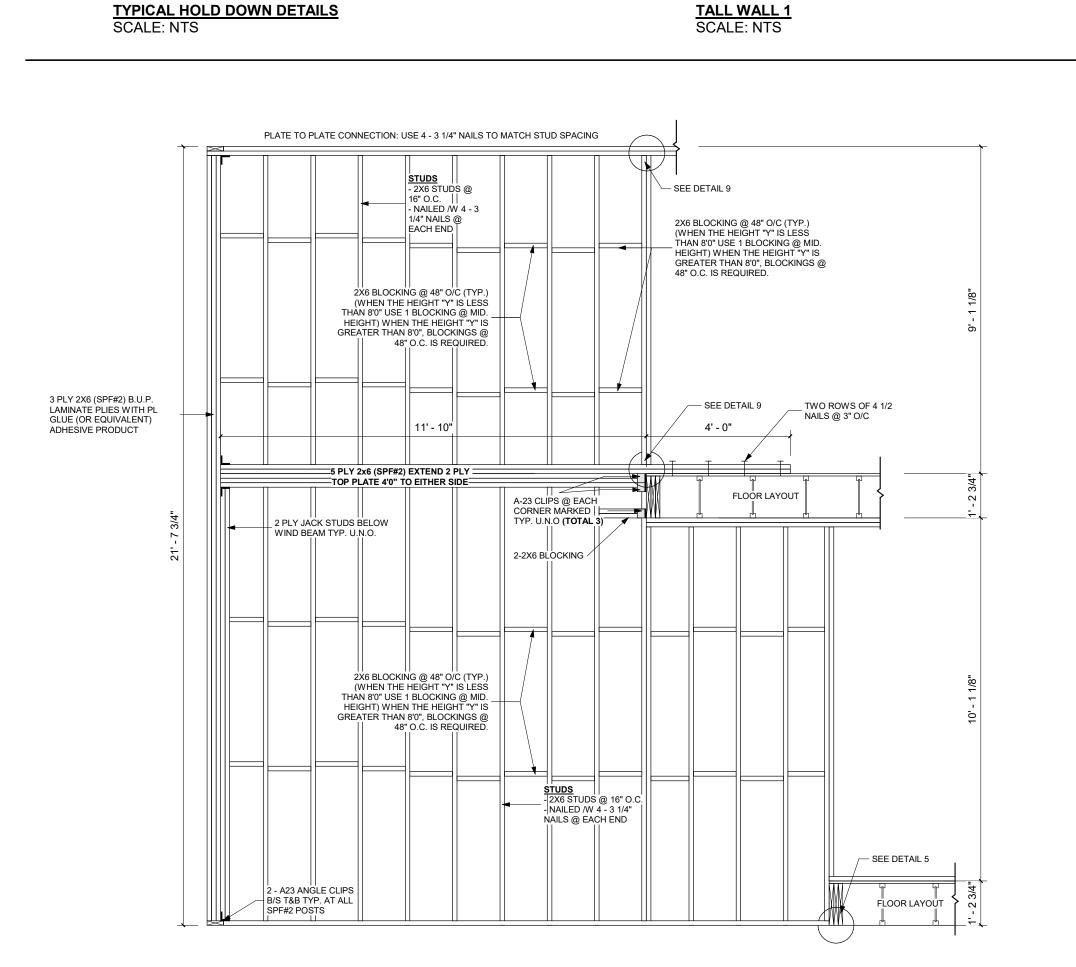
2X6 BLOCKING @ 48" O/C (TYP.) (WHEN THE HEIGHT "Y" IS LESS THAN 8'0" USE 1 BLOCKING @ MID.

GREATER THAN 8'0", BLOCKINGS @

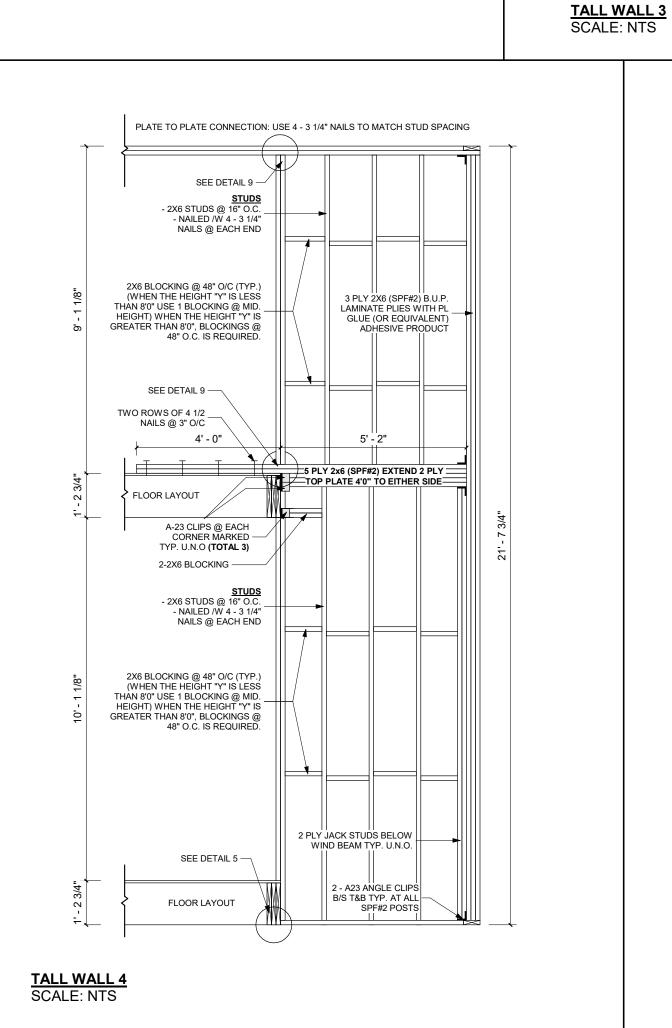
48" O.C. IS REQUIRED.

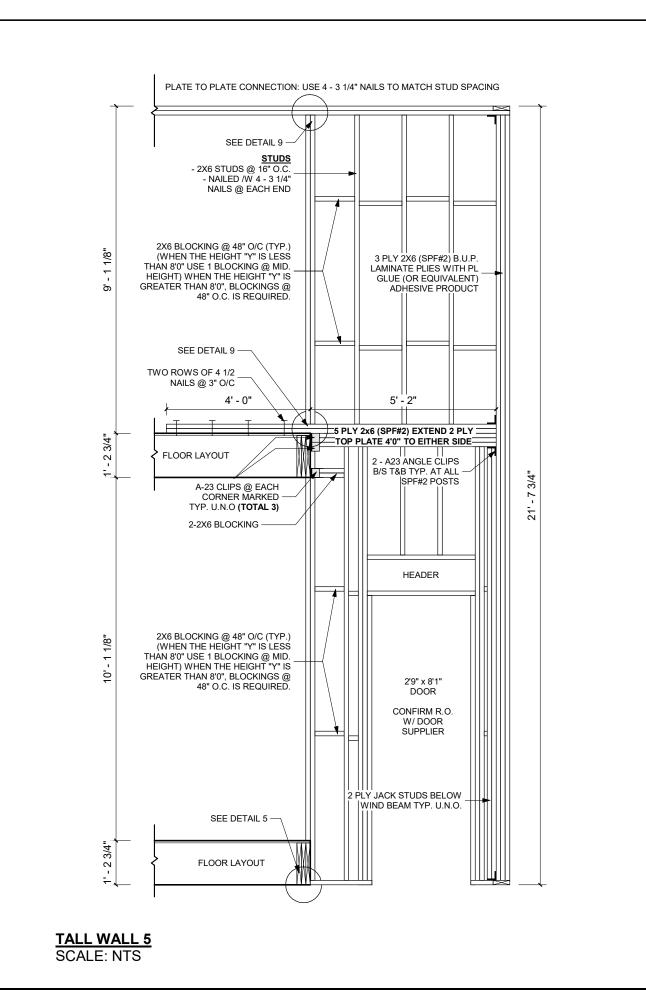
6. AT TALL WALL CORNERS, EXTEND SHEATHING 5 1.2: OVER FROM ADJACENT WALL AND NAIL SHEATHING AT THE CORNER TO ADJACENT WALL WITH 2 ROWS OF 2" C.W.N. (OR 1 1/2" STAPLE) @ 12" O.C..
7. PRESSURE TREATED LUMBER IS REQUIRED WHEN WALL COME IN DIRECT CONTACT WITH CONCRETE.

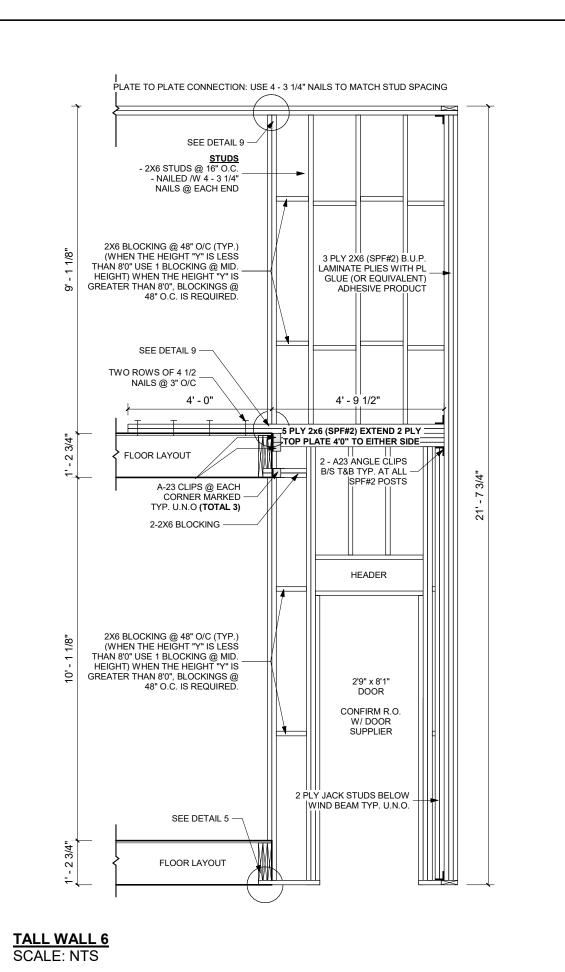
PLATE TO PLATE CONNECTION: USE 4 - 3 1/4" NAILS TO MATCH STUD SPACING | <u>STUDS</u> | | - 2X6 STUDS @ — SEE DETAIL 9 1 - NAILED /W 4 - 3 1/4" NAILS @ 2X6 BLOCKING @ 48" O/C (TYP.) EACH END (WHEN THE HEIGHT "Y" IS LESS THAN 8'0" USE 1 BLOCKING @ MID. HEIGHT) WHEN THE HEIGHT "Y" IS GREATER THAN 8'0", BLOCKINGS @ 48" O.C. IS REQUIRED. 2X6 BLOCKING @ 48" O/C (TYP.) (WHEN THE HEIGHT "Y" IS LESS THAN 8'0" USE 1 BLOCKING @ MID. HEIGHT) WHEN THE HEIGHT "Y" IS GREATER THAN 8'0", BLOCKINGS @ 48" O.C. IS REQUIRED 3 PLY 2X6 (SPF#2) B.U.P. — SEE DETAIL 9 TWO ROWS OF 4 1/2 LAMINATE PLIES WITH PL NAILS @ 3" O/C 4' - 0" GLUE (OR EQUIVALENT) =5 PLY 2x6 (SPF#2) EXTEND 2 PLY FLOÖR LAYOUT A-23 CLIPS @ EACH TYP. U.N.O (TOTAL 3) 2-2X6 BLOCKING -2 PLY JACK STUDS BELOW WIND BEAM TYP. U.N.O. 2X6 BLOCKING @ 48" O/C (TYP.) (WHEN THE HEIGHT "Y" IS LESS THAN 8'0" USE 1 BLOCKING @ MID HEIGHT) WHEN THE HEIGHT "Y" IS GREATER THAN 8'0". BLOCKINGS @ 48" O.C. IS REQUIRED — SEE DETAIL 9 NAILS @ EACH END - B/S T&B TYP. AT AL SPF#2 POSTS - SEE DETAIL 5 5 PLY 2x6 (SPF#2) EXTEND 2 PLY LOOR LAYOU A-23 CLIPS @ EACH CORNER MARKED TYP. U.N.O (TOTAL 3) 2-2X6 BLOCKING (WHEN THE HEIGHT "Y" IS LESS THAN 8'0" USE 1 BLOCKING @ MID. 8" CAST IN PLACE CONC. WALL HEIGHT) WHEN THE HEIGHT "Y" IS GREATER THAN 8'0", BLOCKINGS @ 48" O.C. IS REQUIRED - SEE DETAIL 9 NAILS @ EACH END



TALL WALL 2 SCALE: NTS









GENERAL NOTES:



MUNICIPAL ADDRESS: 2502 16a Street S.E. CALGARY, ALBERTA

PROJECT: FOUR UNIT ROWHOUSE

PROJECT NUMBER: 174-23

STATUS: CONCEPT

LEGAL LAND DESCRIPTION: LOT: BLOCK: PLAN:

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02.	06/12/23	REVISIONS	AD.
03.	13/05/24	BP PLANS	S.P.
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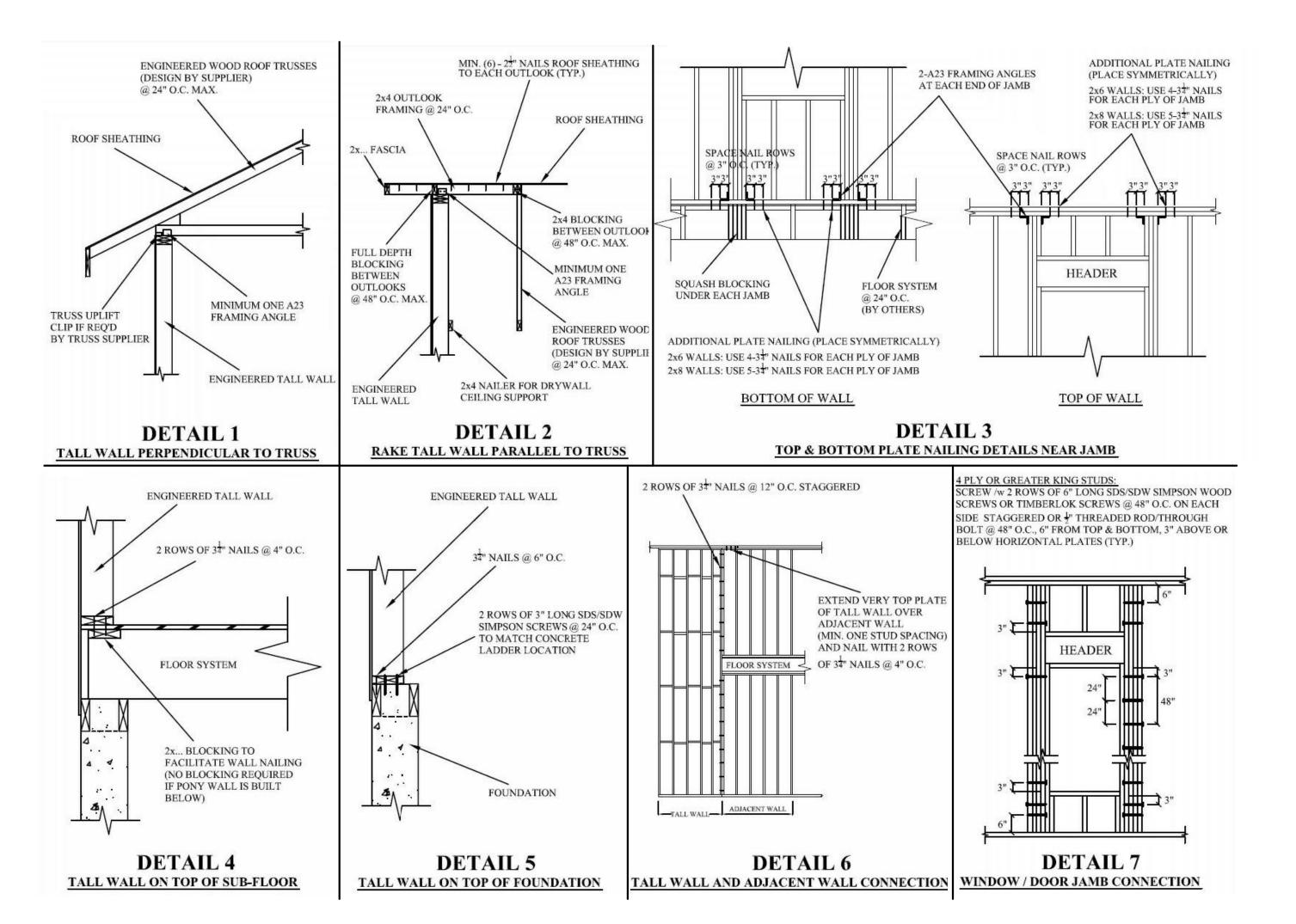
OOR AREAS:	
AIN FLOOR AREA:	SQ.F
PPER FLOOR AREA:	SQ.F
DFT FLOOR AREA:	SQ.F
DTAL ABOVE GRADE:	SQ.F
ASEMENT AREA:	SQ.F
ARAGE AREA:	SQ.F

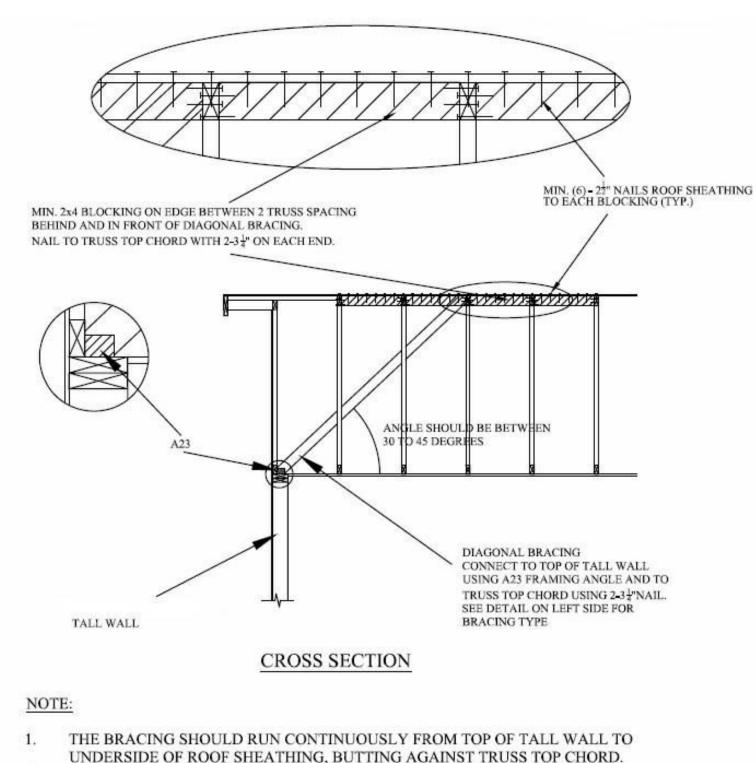
SHEET NAME:

DRAWING SET:

Tall Wall Details

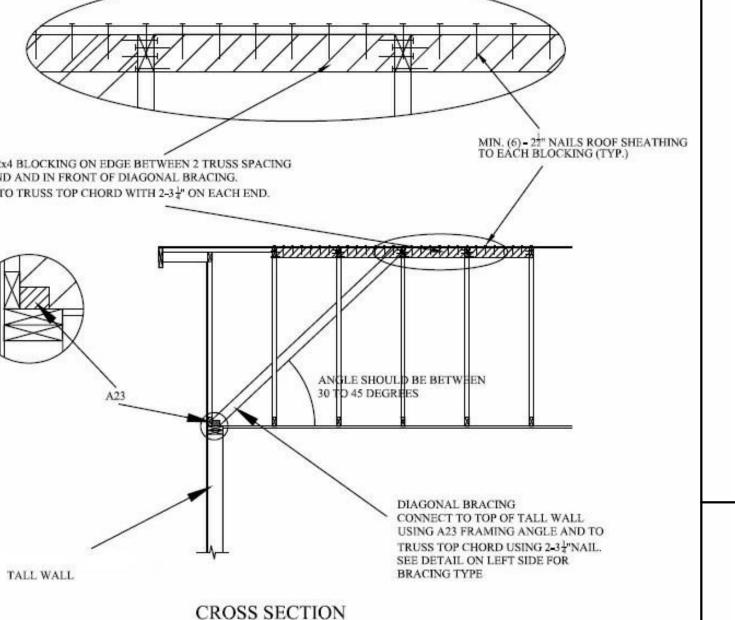
DESIGN BY: DRAWN BY: LAST REVISION DATE: 2024-06-18 1:34:36 PM

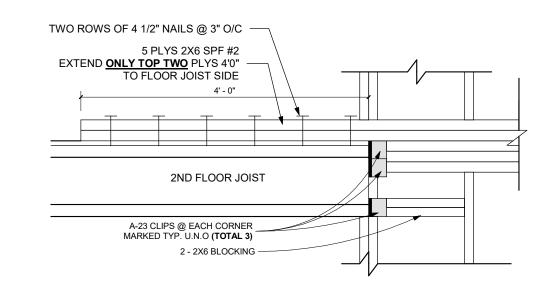




- SHIFT BRACING LEFT OR RIGHT TO AVOID TRUSS WEB INTERFERENCE.
- DO NOT NOTCH, CUT, OR DAMAGE ANY PART OF THE TRUSS.
- 2 AND 3 PLY BRACING SHALL BE NAILED TOGETHER USING 3¹/₄" NAILS @ 8" O.C. STAGGERED
- BRACING SHALL BE SPACED @ 24" O.C. MAX.
- BOTTOM OF TRUSS IS TO BE BRACED IN ACCORDANCE WITH TRUSS MANUFACTURE RECOMMENDATION.

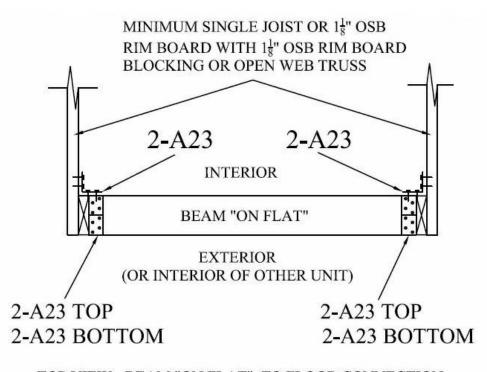
DETAIL 8 DIAGONAL BRACING DETAIL



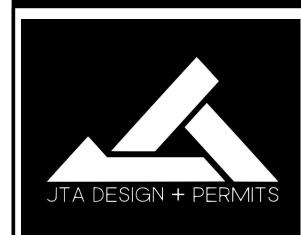


DETAIL 9 LVL PLATE TOP CONNECTION TO FLOOR SYSTEM

AS SHOWN



TOP VIEW - BEAM "ON FLAT" TO FLOOR CONNECTION



GENERAL NOTES:



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174-23

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TO BE RESOLVED BEFORE PROCEEDING

FLOOR AREAS: MAIN FLOOR AREA: -- SQ.FT. UPPER FLOOR AREA: -- SQ.FT. LOFT FLOOR AREA: -- SQ.FT. -- SQ.FT. TOTAL ABOVE GRADE: BASEMENT AREA: -- SQ.FT.

-- SQ.FT.

GARAGE AREA:

DRAWING SET:

SHEET NAME: Tall Wall Detail 2

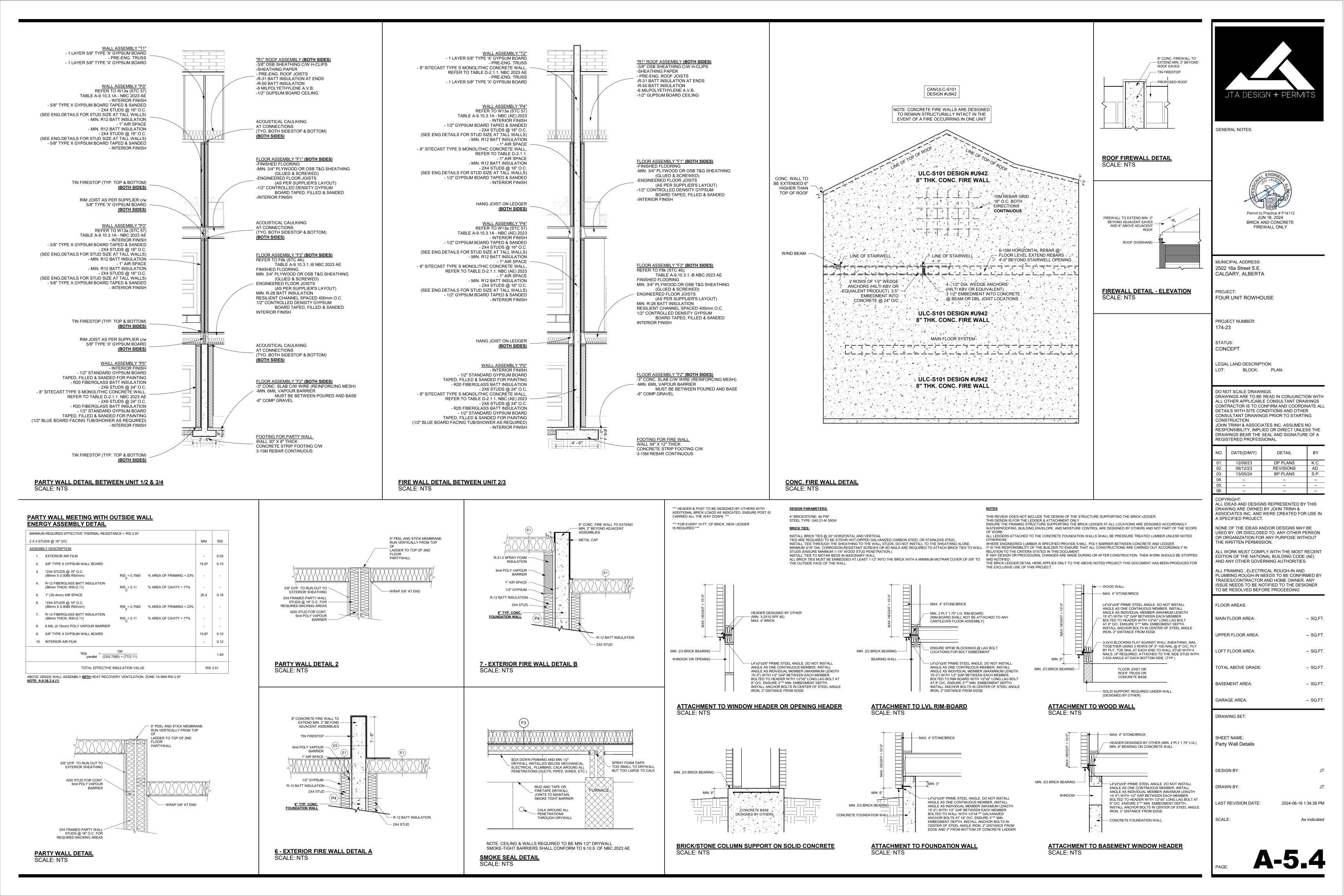
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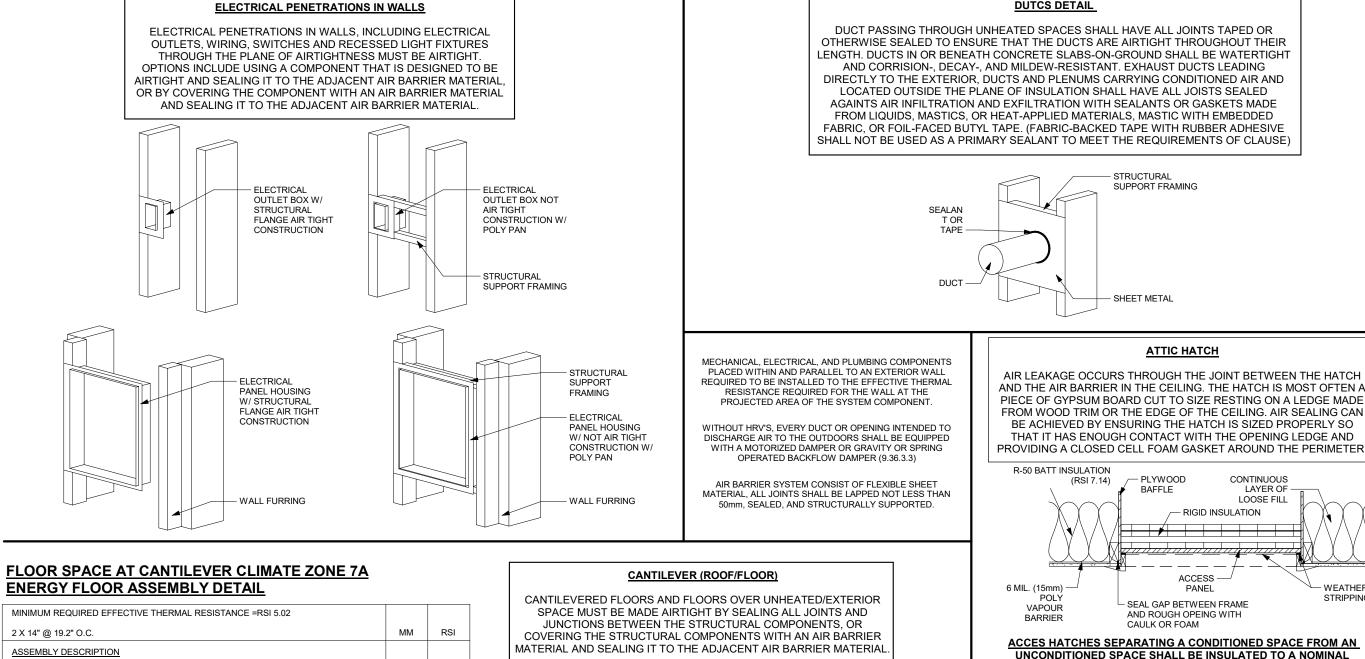
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AND THE AIR BARRIER IN THE CEILING. THE HATCH IS MOST OFTEN A PIECE OF GYPSUM BOARD CUT TO SIZE RESTING ON A LEDGE MADE FROM WOOD TRIM OR THE EDGE OF THE CEILING, AIR SEALING CAN BE ACHIEVED BY ENSURING THE HATCH IS SIZED PROPERLY SO THAT IT HAS ENOUGH CONTACT WITH THE OPENING LEDGE AND PROVIDING A CLOSED CELL FOAM GASKET AROUND THE PERIMETER. LAYER OF -LOOSE FILL - RIGID INSULATION SEAL GAP BETWEEN FRAME AND ROUGH OPEING WITH ACCES HATCHES SEPARATING A CONDITIONED SPACE FROM AN MATERIAL AND SEALING IT TO THE ADJACENT AIR BARRIER MATERIAL. UNCONDITIONED SPACE SHALL BE INSULATED TO A NOMINAL THERMAL RESISTANCE OF NOT LESS THAN 2.6 RSI (R15). EQUIVALENT TO 3" OF EXTRUDED POLYST. 6 MIL. (0.15mm) POLY _ VAPOUR BARRIER EXTERIOR FINISH 5/8" TYPE "X" (AS PER ELEVATION) **VENT PIPE** GYPSUM BOARD ■ 2 PLY BUILDING PAPER - 3/8" DENSGLASS PLUMBING VENT STACK PIPES THAT PENETRATES THE BUILDING — 2x6 WOOD STUD @ 24" O.C ENVELOPE MUST BE MADE AIRTIGHT BY EITHER SEALING THE AIR BARRIER MATERIAL TO THE VENT STACK PIPE WITH A COMPATIBLE - R-22 BATT INSULATION MATERIAL OR SHEATHING TAPE, OR INSTALLING A RUBBER GASKET OR PREFABRICATED ROOF FLASHING AT THE PENETRATION OF THE PLANE - SUBFLOOR OF AIRTIGHNESS AND SEALING IT TO THE ADJACENT AIR BARRIER. INSULATION - SHEATHING EXT. FINISH AS SHOWN

DUTCS DETAIL

GREATER THAN THE VALUES LISTED IN TABLE 9.36.2.7 A FOR CLIMATE ZONE 7A THE U VALUE MUST BE 1.60, WITH A MIN ENERGY RATING OF 25 ROOF/WALL METAL WINDOW WELL INTERSECTION **EXTERIOR** Building code fenestration TOP PLACED 6" ABOVE FINISHED GRADE **FLASHING DETAIL** performance calculator _FLASHING 6" OF GRAVEL for codes based on NBC 2010 4" BELOW WINDOW 4" WEEPING TILE KICKOUT FLASHING C/W-□---4" SMARTBOARD WATER TIGHT SEALS -SHINGLES calculations based on AAMA/WDMA/CSA 101/I.S. 2/A440-08 (NAFS-08) AND CSA A440S1-09 WITH UPDATE NO. 1 (CANADIAN SUPPLEMENT TO NAFS-08) WINDOW WELL DETAIL SHEATHING-6" SMARTBOARD BUILDING PAPER FLASHING GALVANIZED FLASHING-STONE VENEER WEATHER RESISTANT \MEMBRANE CONTINUOUS AS PER CLADDING VINYL DECKING-**SMARTBOARD TRIM** SHEATHING project notes **OVER STONE DETAIL** FRAMING PLYWOOD-WHERE APPLICABLE (U-value Windows & Doors-1.6) (U-Valie Skylights-2.7) DECK NAILER MATCH JOIST/ 12" LAP ON WALL MEMBRANE UNDER KICKOUT DEPTH AS PER PLAN VINYL DECK FLASHING DETAIL AND SADDLE FLASHINGS WHERE APPLICABLE KICKOUT FLASHING C/W performance minimum performance grade (PG)^B 30 **DIVERTER DETAIL** requirements TAR PAPER minimum positive design pressure 1440 PA BUILDING PAPER-WATERPROOF ` minimum negative design pressure 1440 PA SEALANT-FLOOR SYSTEM minimum water penetration test pressure 330 PA AS PER LAYOUT DETAIL TYPICAL FOR WINDOW & DOOR FLASHING infiltration/exfiltration^c A2 3/8" OSB SHEATHING UNDERSIDE O WINDOW-For Radon pipe size: The code is not specific on the type of pipe that may be used, only on the dimension of not less than 100mm (4") FRAME DOWN _FLASHIN WINDOW ELEVATIONS MAINTAIN 12" OPENING BUILDING PAPER-INTO FLOOR SYSTEM LONG EXTERIOR PERIMETER BATTE NON VENTED TAR PAPER-FOR PROPER APPLICATION OF SPRAYFOAM INSULATION 100 mm 6" BUILDING WINDOW INSTALLATION **SQUARE OPENING EXPOSED FLOOR SYSTEM DETAIL DETAIL DETAILS** SHEATHING BOARD MIN. 1/8" GAP BETWEEN SHEETS. VERTICAL & **HORIZONTAL** LOCATED BY SITE RESISTANT BARRIER BATTEN DETAIL **SUPERVISOR** HORIZONTAL JOINTS WALL FRAMING 1" END DAM air/soil gas barrier MEMBERS MATCH WINDOW _ 2" GALVANIZED WIRE X 1.6mm | - W/ 1\" N17 GALVANIZED STAPLES EVERY 6" FOR 16" | | ENSURE FLASHING IS MIN. 6% SLOPE CASING AS PER SPECS **EXTERIOR** centre of floor slab SHEATHING-C STUDS AND VERTICAL _ MDF CAP EVERY 4" FOR 24" O.C STUDS 2 LAYER STUCCO 2x6 FRAMING -SCRATCH COAT 2 LAYERS **STANDARD** ACRYLIC STUCCO _ DRYWALL FINISHED COAT **FLASHING DETAIL** STUD SPACING-NOTE: DETAIL TYPICAL AT TOP AND BOTTOM WALL SHEATHING & OF ALL WINDOWS, DOORS, VENTS, WIRE **DRYWALL ACCESS PANEL** STUCCO LATHE DETAIL STUBWALL DETAIL RADON DETAIL

WOOD TRIM - PAINT--SEALANT AT BUTT JOINTS SEALANT-FIBRE CEMENT CLADDING BRICK MOLD - PAINT -SEALANT--STRAPPING **EXTERIOR SHEATHING** AIR BARRIER / SHEATHING -MEMBRANE STARTER STRIP IAIR BARRIER / SHEATHING MEMBRANE LAPS OVER SPRAY FOAM ROUGH OPENING AIR BARRIER / SHEATHING CAN/ULC S705.1-15 MEMBRANE STARTER STRIP SWING DOOR. ___ -INSULATION - VAPOUR BARRIER -INTERIOR FINISH (DRYWALL) -SEALANT

0.03

0.16

5.16

RSI 5.54

19.05 0.16

RSI_= 3.02 % AREA OF FRAMING = 7.5%

RSI_= 5.48 % AREA OF CAVITY = 92.5%

RSI = $\frac{100}{(7.5/3.02) + (92.5/5.48)}$

TOTAL EFFECTIVE INSULATION VALUE

NON-VENTED ASSEMBLY **WITH** A HEAT RECOVERY VENTILATION- ZONE 7A MIN RSI 5.02

EXTERIOR AIR FILM

3. 2 PLY BUILDING PAPER

2X14" I-JOISTS @ 19.2" O.C

(355.6mm x 0.0085 RSI/mm)

6. 6" SPRAY FOAM INSULATION

(152.4mm x 0.036 RSI/mm)

. 6 MIL. (0.15mm) POLY VAPOUR BARRIER

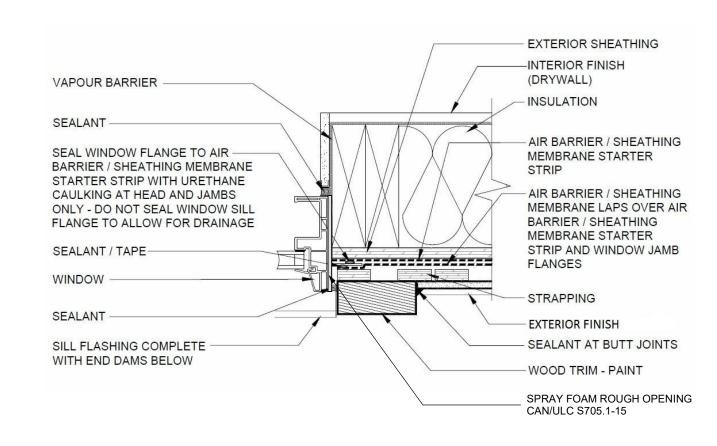
4. 3/4" FIRE RATED OSB

3. 1/2" GYPSUM BOARD

9. INTERIOR AIR FILM

CCMC #14140-L

2. NON-VENTED ALUMINUM SOFFIT



LIFEBREATH RNC 205 HEAT RECOVERY VENTILATION

Section of the control of the contro	MARKET I	normal and a second
External Static Press	ure	Airflow
@ 0.1 in (25 Pa)		222 cfm (105 L/s)
@ 0.2 in (50 Pa)		207 cfm (98 L/s)
@ 0.3 in (75 Pa)		193 cfm (91 L/s)
@ 0.4 in (100 Pa)		179 cfm (84 L/s)
@ 0.5 in (125 Pa)		165 cfm (78 L/s)
@ 0.6 in (150 Pa)		150 cfm (71 L/s)
@ 0.7 in (175 Pa)		135 cfm (63 L/s)
@ 0.8 in (200 Pa)		119 cfm (56 L/s)
@ 0.9 in (225 Pa)		102 cfm (48 L/s)
@ 1.0 in (250 Pa)		84 cfm (40 L/s)
Max. Temperature Reco	overy	81%
Sensible Effectiveness		
@ 100 cfm (47 L/s)	32°F (0°C)	77%
Sensible Efficiency		
@ 100 cfm (47 L/s)	32°F (0°C)	68%
S ensible E fficiency @ 100 cfm (47 L/s)	-13°F (-25°C)	68%
	-13 (-23 C)	
VAC @ 60Hz		120
Watts/Low speed		64
Watts/High speed		96
Amp rating		1.4

Sensible Efficiency: Thermal Effectiveness: Based on temperature differential between the 2 airstreams

Efficiency: Takes into account all power inputs

GENYK (

SCALE: NTS



BOREAL NATURE ELITE

surpasses the CAN/ULC S705.1-15 material standard requirements.

Boreal Nature Elite is a closed-cell medium density spray polyurethane foam insulation formulated with environmentally responsible HFO blowing agents. The product is manufactured without ozone depletion substances (Zero ODS) and contains negligible amount of Global Warming Potential (GWP) substances. Boreal Nature Elite has been tested by an independent laboratory and evaluated by CCMC. The finished product

PHYSICA	L PROPERTIES – CCMC # 14140-L		
PHYSICAL PROPERTIES	STANDARD	RESULT	
Core Density	ASTM D1622	2.0 lb/ft ³	32 kg/m ³
Compressive Strength	ASTM D1621	33.1 psi	228 kPa
Tensile Strength	ASTM D1623	29.7 psi	205 kPa
Water Vapour Permeance (50mm thickness)	ASTM E96 (Procedure A)	34 ng (Pa.s.m²)
Surface Burning (flame spread index)	CAN/ULC S127-14	2	85
Fungi Resistance	ASTM C1338	No g	rowth
Long Term Thermal Resistance Thickness 25 mm Thickness 50 mm Thickness 75 mm Thickness 100 mm	CAN/ULC- S770-09	1.96 2.93	RSI RSI RSI RSI
Air Permeance	ASTM E2178	0.0011	L/(s.m²)
Recommended Time to Occupancy	CAN/ULC S774	25 h	nours
Open Cell Content	ASTM D6226 (Procedure 2)	2.0	3 %
Water Absorption (volume)	ASTM D2842 (Procedure A)	1.0	3 %
Dimensional Stability	ASTM D2126 (28 days) -20°C 80°C 70°C, 97% RH (±3%)	+:	% 2 % 3 %

PHYSICAL PROPERTIES – Additional testing				
Radon mitigation system	CCMC Masterformat 07 26 23.0	CCMC #14445-R		
Air Barrier System	CCMC Masterformat 07 27 09.01	CCMC Report in process		
Long Term Thermal Resistance (50mm)	CAN/ULC- S770-03	2.14 RSI (R 6.2/in)		
Surface Burning (flame spread index)	CAN/ULC S102-10	30		
15 minutes wall assembly high heat	NBC, Art. 3.2.3.8 Protection Exterior Building Face, Sentence 2 CAN/ULC S101 15-min. Stay In Place test.	Met the requirements on three different wall designs Independent laboratory report upon request.		
Initial Thermal Resistance *	ASTM C-518 (CAN/ULC S770) 10 days 23°C and 50% R.H.	2.49 RSI (R 7.2/in)		

samples were conditioned for 180 days. (23°C and 50% R.H)

GENYK (=

BOREAL NATURE ELITE TECHNICAL DATA SHEET

AS SHOWN

Recycled Content Renewable Materials Content (Veg. oils) R-VALUE (ft2.hr.°F)/Btu THICKNESS mm (in) RSI (m²,K)/W 102.0 (4.00) 127.0 (5.00) 152.0 (6.00)

FENESTRATION (WINDOWS AND DOORS TO HAVE AN OVERALL THERMAL TRANSMITTANCE (U-VALUE) NOT

203.2 (8.00)	48.9	8.6
	COMPONENT PRODUCT SPECIFICAT	TIONS
PROPERTIES	ISOCYANATE - A-2732	RESIN - BOREAL NATURE ELITE
Colour	Brown Liquid	Green Liquid
Viscosity at 25°C	150 - 250 cps	280 - 420 cps
Specific Gravity at 25°C	1.22 - 1.25	1.17 - 1.23
Shelf Life	12 months	6 months
Storage Temperature	15-35°C / 59-95°F	15-25°C / 59-77°F
Ratio (volume)	100	100

INSTALLATION GUIDELINES						
Boreal Nature Elite	Ambient Te	emperatures	Spray Tem	peratures	Minimum Spray Pressure	
Summer	50°F to 95°F	10°C to 35°C	95°F to 120°F	35°C to 49°C		
Regular	32°F to 68°F	2°F to 68°F 0°C to 20°C 95°F to 120°F 35°C to 49°C	5516 kPa (800 psi)			
Winter	14°F to 50°F	-10°C to +10°C	100°F to 130°F	38°C to 55°C	12 12 12 12 12 12 12 12 12 12 12 12 12 1	

ADDITIONAL INFORMATION · Maximum thickness per pass must not exceed 50 mm (2 inches). Thicknesses greater than 50 mm per pass

- generate excessive exothermic heat which, in extreme cases, may ignite the foam. . It is possible to apply two successive passes of 50 mm. Wait 2 hours before applying a third pass of 50mm.
- Alternatively, wait until the internal temperature in the center of the foam is less than 37°C (100°F) to apply an additional pass of 50mm.
- . Maximum installed thickness during 24 hour period is not to exceed 200mm (8 inches).
- Boreal Nature Elite is combustible and must be installed in accordance with applicable building codes.
- The service temperature is between -60°C and 80°C. Before handling these chemicals, please consult the Safety Data Sheet for the two components (available online).
- · Temperature, humidity, equipment, substrate can vary installation parameters.
- . In the application vehicle, the recommended storage temperature of the products (A and B) should be between 18°C and 24°C for optimum performance.

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BOREAL Nature Eithe must be applied by licensed installers in accordance with the CAN/ULC \$705.2 application standard.

genyk.com 1-844-404-3695 | info@genyk.com

TECHNICAL DATA SHEET



GENERAL NOTES:

MUNICIPAL ADDRESS 2502 16a Street S.E. CALGARY, ALBERTA

PROJECT: FOUR UNIT ROWHOUSE

PROJECT NUMBER: 174-23

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06.	-		

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LOFT FLOOR AREA: -- SQ.FT. TOTAL ABOVE GRADE -- SQ.FT.

-- SQ.FT.

-- SQ.FT.

GARAGE AREA:

DRAWING SET:

BASEMENT AREA:

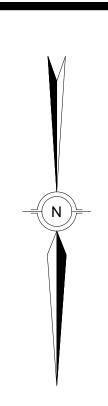
SHEET NAME: Air Barrier, Window, Jamb & HRV Details

DESIGN BY: DRAWN BY:

LAST REVISION DATE: 2024-06-18 1:34:39 PM

SCALE:

HRV SPECIFICATION WINDOW JAMB DETAIL



ELECTRICAL SCHEDULE

DATA OUTLET	SINGLE SWITCHING	¤	CEILING FIXTURE		SMOKE DETECTOR
TV OUTLET	STANDARD PLUG		WALL SCONES	\boxtimes	BATH FAN
3-WAY SWITCHING	4-WAY SWITCHING		GFI PLUG	Ø	POT LIGHTING



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LEGAL LAND DESCRIPTION: LOT: BLOCK: PLAN:

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NO.	DATE(D/M/Y)	DETAIL	BY
01.	12/09/23	DP PLANS	K.C.
02.	06/12/23	REVISIONS	AD.
03.	13/05/24	BP PLANS	S.P.
04.		-	
05.	-	-	
06			

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TO BE RESOLVED BEFORE PROCEEDING

FLOOR AREAS: MAIN FLOOR AREA: -- SQ.FT. UPPER FLOOR AREA: -- SQ.FT. LOFT FLOOR AREA: -- SQ.FT. TOTAL ABOVE GRADE: -- SQ.FT. BASEMENT AREA: -- SQ.FT.

-- SQ.FT.

DRAWING SET:

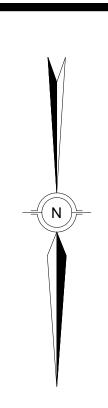
GARAGE AREA:

SHEET NAME: Basement electrical

DESIGN BY: DRAWN BY:

2024-06-18 1:34:39 PM LAST REVISION DATE:

<u>UNIT #4</u>	<u>UNIT #3</u>	<u>UNIT #2</u>	<u>UNIT #1</u>
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<u>UNIT #4</u>

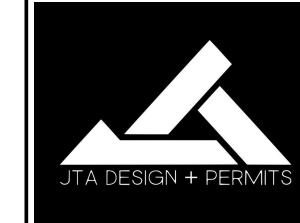
<u>UNIT #3</u>

<u>UNIT #2</u>

ELECTRICAL SCHEDULE

<u>UNIT #1</u>

SINGLE SWITCHING X CEILING FIXTURE SMOKE DETECTOR DATA OUTLET TV OUTLET 4-WAY SWITCHING 3-WAY SWITCHING



GENERAL NOTES:

MUNICIPAL ADDRESS: 2502 16a Street S.E. CALGARY, ALBERTA

PROJECT: FOUR UNIT ROWHOUSE

PROJECT NUMBER: 174-23

STATUS: CONCEPT

LEGAL LAND DESCRIPTION: LOT: BLOCK: PLAN:

NO.	DATE(D/M/Y)	DETAIL	BY
01.	12/09/23	DP PLANS	K.C.
02.	06/12/23	REVISIONS	AD.
03.	13/05/24	BP PLANS	S.P.
04.		-	
05.	-	-	
06			

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Q.FT.

SHEET NAME:

DESIGN BY:

LAST REVISION DATE:

SCALE:

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Ο.	DATE(D/M/Y)	DETAIL	BY
1.	12/09/23	DP PLANS	K.C.
2.	06/12/23	REVISIONS	AD.
3.	13/05/24	BP PLANS	S.P.
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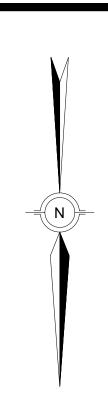
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FLOOR AREAS:	
MAIN FLOOR AREA:	SQ.I
UPPER FLOOR AREA:	SQ.I
LOFT FLOOR AREA:	SQ.I
TOTAL ABOVE GRADE:	SQ.I
BASEMENT AREA:	SQ.I
GARAGE AREA:	SQ.I
DRAWING SET	

Main Electrical

DRAWN BY:

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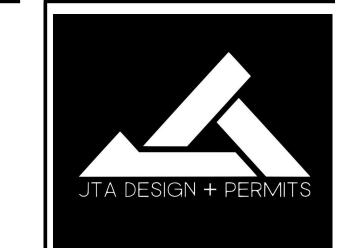


UNIT #4

ELECTRICAL SCHEDULE

<u>UNIT #1</u>

DATA OUTLET	SINGLE SWITCHING	¤	CEILING FIXTURE		SMOKE DETECTOR
TV OUTLET	STANDARD PLUG		WALL SCONES	\boxtimes	BATH FAN
3-WAY SWITCHING	4-WAY SWITCHING		GFI PLUG	Ø	POT LIGHTING



GENERAL NOTES:

MUNICIPAL ADDRESS: 2502 16a Street S.E. CALGARY, ALBERTA

PROJECT: FOUR UNIT ROWHOUSE

PROJECT NUMBER: 174-23

STATUS: CONCEPT

LEGAL LAND DESCRIPTION: LOT: BLOCK: PLAN:

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05.	-	-	
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-- SQ.FT.

-- SQ.FT.

-- SQ.FT.

-- SQ.FT.

-- SQ.FT.

-- SQ.FT.

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UPPER FLOOR AREA: LOFT FLOOR AREA: TOTAL ABOVE GRADE:

GARAGE AREA:

BASEMENT AREA:

FLOOR AREAS:

MAIN FLOOR AREA:

DRAWING SET:

SHEET NAME: Upper Electrical

DESIGN BY:

DRAWN BY:

SCALE:

LAST REVISION DATE:

<u>UNIT #2</u>

<u>UNIT #3</u>