

HEARTLAND 3

TREE HUGGER HOMES

SITE SPECIFIC DESIGN INFORMATION

WCLH DESIGN CRITERIA
A

GOVERNING CODES

NATIONAL BU LDING CODE OF CANADA
ALBERTA BUILD NG CODE

SITE CRITERIA

GROUND SNOW LOAD	Kpa
ASSOCIATED RA N LOAD	Kpa
DESIGN W ND PRESSURE	Kpa
SEISMIC	Za =
	Zv =
	ZONAL VELOCITY RATIO =

LOADINGS

FLOOR	1 9 Kpa LIVE
	0.72 Kpa DEAD

ATTENTION

1. SITE PLAN SITE PLAN(S) SHALL BE PREPARED AND SUBMITTED BY THE OWNER/CONTRACTOR AS REQ'D BY THE LOCAL JURISDICTION. ITEMS REQU RED AND SHOWN MAY NCLUDE BUT ARE NOT LIMITED TO; IDENT FICATION AND LOCATION OF ALL BUILDINGS, EXISTING AND PROPOSED, LABEL ALL EXIST NG AND PROPOSED STREETS, EASEMENTS, FLOOD PLA NS AND ADJACENT PROPERTY LINES, DIMENSIONS FROM PROPOSED STRUCTURE TO ALL PROPERTY L NES (FRONT, REAR & S DES).

2. FIRE RESISTIVE CONSTRUCTION F RE RESISTIVE CONSTRUCTION AND FIRE SPRINKLER SYSTEMS HAVE NOT BEEN ADDRESSED N THESE DOCUMENTS OTHER THAN SEPARATION OF ATTACHED GARAGE. ANY FIRE RESISTIVE CONSTRUCTION AND F RE SPR NKLER SYSTEMS REQU RED BY THE LOCAL JURISDICTION AND ADOPTED CODES ARE THE RESPONSIBILITY OF THE OWNER/CONTRACTOR.

3. LATERAL DESIGN BECAUSE OF THE RANDOM AND UNPREDICTABLE NATURE OF W ND AND EARTHQUAKE LOADING EVEN A RELATIVELY COMPLETE ANALYSIS, METHODOLOGY, AND DESIGN CANNOT ENSURE THAT THERE W LL BE NO DAMAGE TO STRUCTURES DURING MAJOR EVENTS. LOCAL ADOPTED CODES ARE BASED ON L FE SAFETY AND NOT "DAMAGE PROOF NG". IT IS EXTREMELY MPORTANT THAT ATTENTION BE PA D TO THE PLACEMENT OF RE NFORCING, HOLDOWN EMBEDS, ETC. N THE FOUNDATIONS, NAIL NG OF VERTICAL AND HORIZONTAL SHEATHING (WALLS, FLOORS, AND ROOF) AND TO DETA LING SHOWN ON THE PLANS. PROPER MPLEMENTATION IS REQU RED TO ENSURE THE DESIRED DESIGN RESPONSE.

4. MODIFICATIONS STRUCTURAL MOD FICATIONS TO PLANS, FRAM NG AND LOADING (DIMENSIONS, MATERIALS, DETAILS, LOCATION AND OR SIZE OF OPEN NGS N WALLS, HOT TUB LOADING, ETC.) FROM THAT SHOWN ON THE WCLH PLANS CAN ALTER THE STRUCTURAL PERFORMANCE AND WILL VO D ANY LIAB LITY BY WCLH OR A/EOR, WITHOUT ADDITIONAL REV EW AND ANALYSIS AND PRIOR WRITTEN APPROVAL. NEW AND RELOCATED LOADS CAN CAUSE EXCESSIVE DEFLECTION AND EVEN STRUCTURAL FAILURE. INCREASING THE SIZE, NUMBER OR LOCATION OF OPENINGS IN SHEAR WALLS CAN VARY THE LOAD NG ON SHEAR PANELS BEYOND THEIR LOAD CARRYING CAPACITIES. THE OWNER AND CONTRACTOR SHALL CAREFULLY REVIEW PLANS AND SPECIFICATIONS PRIOR TO NITIATION OF CONSTRUCTION.

5. SOILS INVESTIGATION WHERE REQU RED BY THE LOCAL SITE CONDITIONS OR JURISDICTION A GEOTECHNICAL INVESTIGATION (SOILS REPORT) SHALL BE PREPARED BY A QUALIF ED PROFESSIONAL AND SUBMITTED TO THE A/EOR BY THE OWNER/CONTRACTOR FOR REVIEW AND INCORPORATION INTO THE DESIGN. WHEN EXPANSIVE OR COLLAPSE SENSITIVE SOILS ARE PRESENT SPECIAL PROVISIONS MAY BE REQU RED IN THE FOUNDATION DESIGN. ADDITIONAL FEES W LL BE WARRANTED.

AREAS	
NAME	AREA
MAIN	725 SF
Grand total	725 SF
BASEMENT	725 SF

NOTE WHISPER CREEK LOG HOMES (WCLH) ARE CONSTRUCTED US NG NATURAL WOOD PRODUCTS SUBJECT TO DECAY. MAINTENANCE METHODS AND PROCEDURES SET FORTH BY WCLH SHALL BE FOLLOWED. WCLH DOES NOT WARRANTY COMPONENTS INSTALLED LESS THAN 24 INCHES FROM THE GROUND.

LIST OF DRAWINGS	
SHEET NO	SHEET TITLE
ARCHITECTURAL	
A-1 0	BASEMENT PLAN
A-1.1	MA N FLOOR PLAN
A-2 0	FRONT & LEFT ELEVATIONS
A-2.1	REAR & RIGHT ELEVATIONS
A-3 0	BU LDING SECTION & DETA LS
STRUCTURAL	
S-1 0	FOOT NG & FOUNDATION PLAN
S-2 0	FLOOR FRAMING PLAN
S-3 0	ROOF FRAMING PLAN
S-4 0	FOOT NG & FOUNDATION DETA LS
S-5 0	FRAM NG DETA LS
ELECTRICAL	
E-1 0	ELECTRICAL PLANS

DEFERRED SUBMITTAL ITEMS BY CONTRACTOR
FIREPLACE SPECIFICATIONS
GAS LINE DIAGRAM BY MECH. CONTRACTOR
HEAT LOSS CALCS BY MECH. CONTRACTOR
TRUSS CALCS BY TRUSS MANUFACTURER

SHEET TITLE: COVER SHEET
PLAN NO.: M06-445-C-HL
SHEET NO.: A-0.0

WHISPER CREEK LOG HOMES
355- 2nd Avenue East
PO Box 2760
Cardston, Alberta,
Canada T0K 0K0
ph. 403-653-1140
fx. 403-653-1086
engineering@wclh com

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THESE DESIGNS AND DETAILS ARE BASED ON MANY YEARS OF CONSTRUCTION, DESIGN, AND ENGINEERING PRACTICE IN NUMEROUS DIVERSE JURISDICTIONS. THE PURPOSE IS TO PROVIDE A BASIS FOR THE DESIGNS INCORPORATED IN WHISPER CREEK LOG HOMES (WCLH). HOWEVER, IT IS THE RESPONSIBILITY OF THE OWNER TO CONSULT WITH ARCHITECT OR ENGNEER OF RECORD (E.O.R.) TO REVIEW AND VERIFY ANY AND ALL OF THE ASSUMPTIONS MADE AND DESIGNS PRESENTED. WCLH MAKES NO WARANTY OR GUARANTEE AS TO THE FINAL SITE SPECIFIC APPLICABILITY OF THE DESIGN. ANY AND ALL PROPOSED CHANGES BY THE E.O.R. SHALL BE COORDINATED WITH WCLH. ALL CHANGES MUST BE APPROVED IN WRITING BY WCLH. IF APPROVED, ALL CHANGES WILL RESULT IN ADDITIONAL COSTS AND MAY REQUIRE MODIFICATIONS TO THE PLANS AND WALLS.

ARCHITECT ENGINEER OF RECORD:

REV SIONS:

No.	By:	Date:	

PROJECT NAME: HEARTLAND 3

OWNER: TREE HUGGER HOMES

ADDRESS: 2604 YELLOWHEAD TRAIL NE EDMONTON, AB T6S 1C2 CANADA

DRAWING TITLE: COVER SHEET

PROJECT NO.: 07-030
FILE PATH: Z:\Projects\2007 Projects 07-001 thru 07-030\07-030 HL3 Tree Hugger Homes M06- S-C-HL.vt
DRAWN BY: DCA
CHECKED BY: ABM & KCM
DATE: 9 JAN 2007
PLAN NO.: M06-445-C-HL
SHEET NO.: A-0.0

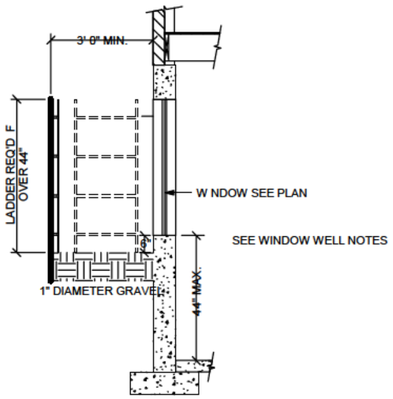
1:10.2007 3:25:29 PM Z:\Projects\2007 Projects 07-001 thru 07-030\07-030 HL3 Tree Hugger Homes M06- S-C-HL.vt

BASEMENT NOTES

1. CONTRACTOR SHALL VER FY ALL D MENSIONS & CONDITIONS SHOWN ON THESE PLANS AND W/ BU LD NG SITE PRIOR TO COMMENCING ANY WORK ON PROJECT.
2. ALL EXTERIOR WALLS ARE D MENSIONED TO THE FACE OF SHEATH NG OR FOUNDATION. ALL NTERIOR WALLS ARE DIMENSIONED TO THE FACE OF STUDS.
3. PROVIDE WINDOW WELLS AS REQUIRED BY F NISH GRADE. (CONTRACTOR TO VERIFY). SEE W NDOW WELL DETA L.
4. BASEMENTS ENCLOSING CONDITIONED SPACE SHALL BE INSULATED.
5. UNFINISHED AND F NISHED SPACES SHALL BE SEPARATED BY A DOOR.

ABBREVIATIONS

O/C	INDICATES BU LDING COMPONENT PROV DED BY OWNER/CONTRACTOR
WC	INDICATES BU LDING COMPONENT PROV DED BY WHISPER CREEK LOG HOMES
A/EOR	INDICATES ARCHITECT/ENGINEER OF RECORD



TYPICAL WINDOW WELL DETAIL

NOT TO SCALE

WINDOW WELL NOTES:

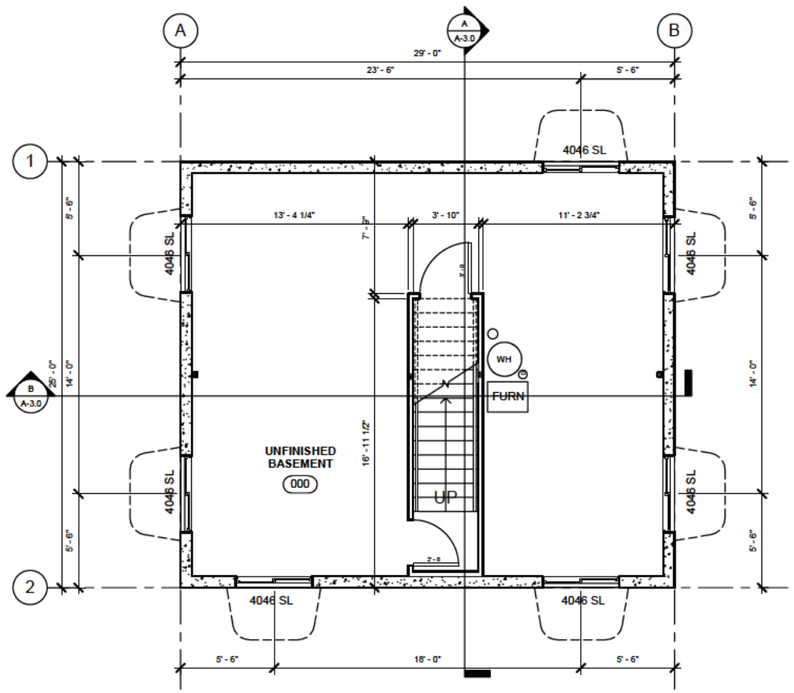
ESCAPE AND RESCUE W NDOWS W/ A FINISHED S LL HEIGHT BELOW THE ADJACENT GROUND ELEVATION SHALL HAVE A WINDOW WELL.
W NDOW WELLS AT ESCAPE OR RESCUE WINDOWS SHALL COMPLY W/ THE FOLLOWING:

1. THE CLEAR HORIZONTAL D MENSIONS SHALL ALLOW THE W NDOW TO BE FULLY OPENED AND PROV DE A MIN ACCESSIBLE NET CLEAR OPEN NG OF 9 SQ FT W/ A M N DIMENSION OF 36".

2. W NDOW WELLS WITH A VERTICAL DEPTH OF MORE THAN 44" SHALL BE EQU PPED W/ AN APPROVED PERMANENTLY AFFIXED LADDER OR STAIRS THAT ARE ACCESS BLE W/ THE W NDOW IN THE FULLY OPENED POSITION. THE LADDER OR STAIRS SHALL NOT ENCROACH INTO THE REQUIRED D MENSIONS OF THE WINDOW WELL BY MORE THAN 6".

BARS, GR LLES, GRATES OR SIMILAR DEVICES MAY BE INSTALLED ON EMERGENCY ESCAPE OR RESCUE WINDOWS, DOORS, OR W NDOW WELLS PROV DED:

1. THE DEVICES ARE EQUIPPED W/ APPROVED RELEASE MECHANISMS WHICH ARE OPEN-ABLE FROM THE NSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.



1 BASEMENT PLAN

1/4" = 1'-0"

BASEMENT PLAN — PLAN NO.: M06-445-C-HL — SHEET NO.: A-1.0

WHISPER CREEK LOG HOMES
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ARCHITECT ENGINEER OF RECORD:

REV SIONS:

No.	By:	Date:	

PROJECT NAME: HEARTLAND 3

OWNER: TREE HUGGER HOMES

ADDRESS: 2604 YELLOWHEAD TRAIL NE EDMONTON, AB T6S 1C2 CANADA

DRAWING TITLE: BASEMENT PLAN

PROJECT NO.: 07-030

FILE PATH: Z:\Projects\2007 Projects 07-031 thru 07-036\07-030 Ht 3 Tree Hugger Homes MOD - S C HL\07-030 Ht 3 Tree Hugger Homes MOD - S-C-HL.rvt

DRAWN BY: DCA

CHECKED BY: ABM & KCM

DATE: 9 JAN 2007

PLAN NO.: M06-445-C-HL

SHEET NO.: A-1.0

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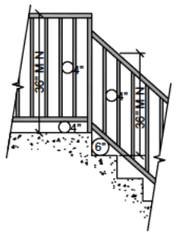
GUARDRAIL NOTES:

1. 36" (M N) HIGH GUARDRA LS ARE REQU RED FOR UNENCLOSED FLOOR AND ROOF OPENINGS, OPEN AND GLAZED SIDES OF STA RWAYS, LANDINGS, DECKS, RAMPS, AND PORCHES, WHICH ARE MORE THAN 30 NCHES ABOVE GRADE OR A FLOOR OR OTHER SURFACE BELOW.

2. OPEN GUARDRA LS SHALL HAVE NTERMEDIATE RAIL SPACING OR PATTERN SUCH THAT A 4- NCH SPHERE CANNOT PASS THROUGH AND THE TRIANGULAR AREA FORMED BY TREAD, RISER AND GUARDRA L SO THAT 6-INCH SPHERE CANNOT PASS THROUGH

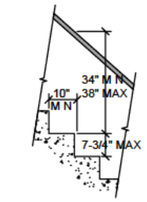


HANDRAIL NOTES:

1. RESIDENTIAL STAIRS REQUIRE HANDRAILS ON A MIN MUM OF ONE S DE.

2. HANDRAIL SHALL BE CONT NUOUS THE FULL LENGTH OF THE STAIRS WITH ENDS RETURNED TO NEWEL POST OR WALL.

3. THE HANDGRIP PORTION OF THE HANDRA LS SHALL NOT BE LESS THAN 1 1/4" INCHES NOR MORE THAN 2 NCHES IN CROSS-SECTIONAL DIMENSION OR THE SHAPE SHALL PROV DE AN EQUIVALENT GRIPPING SURFACE. THE HANDGR P PORTION OF THE HANDRAILS SHALL HAVE A SMOOTH SURFACE WITH NO SHARP CORNERS. HANDRA LS PROJECTION FROM A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1 1/2 INCHES BETWEEN THE HANDRA L AND ANY ABUTT NG CONSTRUCTION SO AS TO AVOID INJURY TO FINGERS.



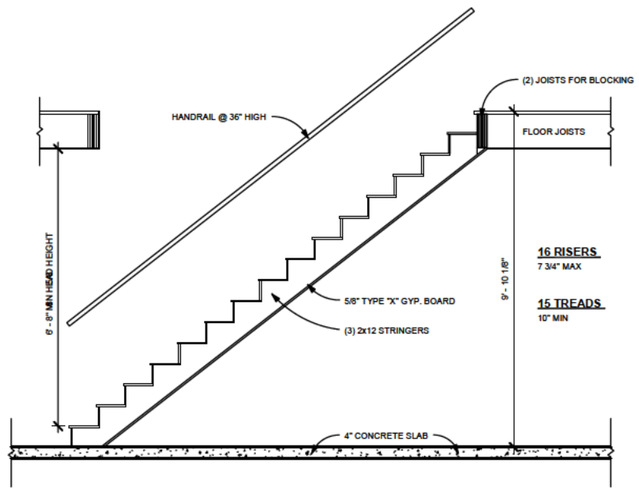
STAIRWAY NOTES:

1. STA RWAYS SHALL NOT BE LESS THAN 36 NCHES N WIDTH.

2. THE RISE OF STEPS SHALL NOT BE LESS THAN 4 INCHES OR GREATER THAN 8 NCHES. THE GREATEST RISER HEIGHT WITH N ANY FLIGHT OF STA RS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH.

3.THE RUN SHALL NOT BE LESS THAN 9 INCHES AS MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FURTHER MOST PROJECTION OF ADJACENT TREADS. THE LARGEST TREAD RUN WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY 3/8 NCH.

4. W NDER TREADS SHALL HAVE A M NIMUM OF TREAD DEPTH OF 10" MEASURED AT A POINT 12" FROM THE NARROW SIDE OF THE TREAD, AND HAVE A MIN MUM DEPTH OF 6". WITHIN ANY FLIGHT OF STA RS THE GREATEST W NDER TREAD DEPTH AT THE 12" WALK LINE SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8".
5. NOS NG



2 BASEMENT STAIR SECTION
1/2" = 1'-0"

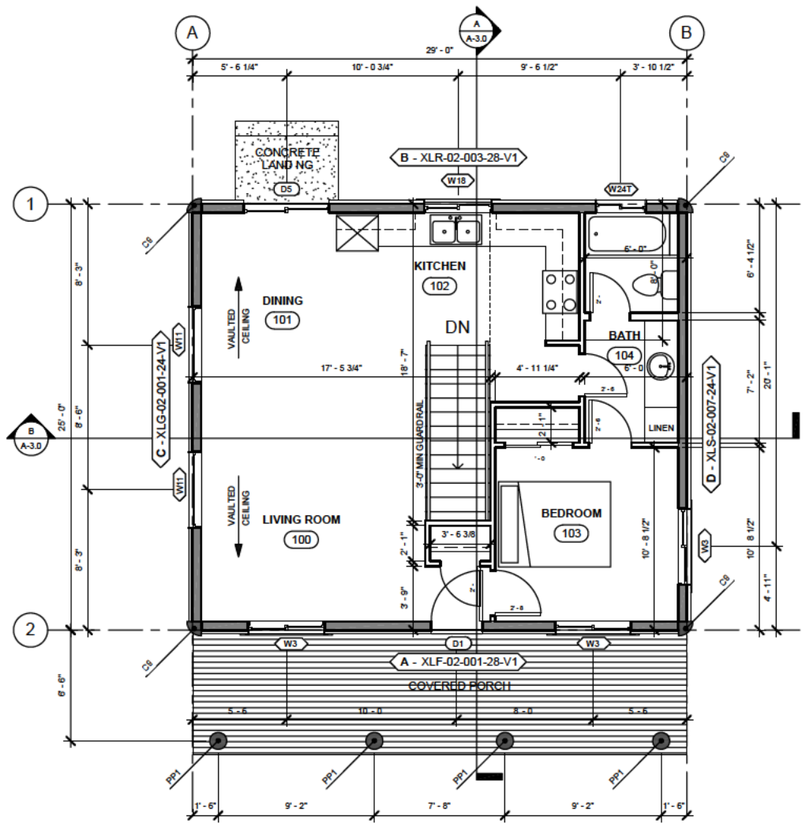
WALL SCHEDULE				
Count	Mark	Wall #	Wall Components	Treated Plate
1	A	XLF-02-001-28-V1	W3x2, D1	No
1	B	XLR-02-003-28-V1	W18, W24T, D5	No
1	C	XLG-02-001-24-V1	W11x2, STFNR	No
1	CC	GT01	25' Gable End Truss - 7:12, STFNR	No
1	D	XLS-02-007-24-V1	W3	No
1	DD	GT01	25' Gable End Truss - 7:12	No

FLOOR PLAN NOTES

1. CONTRACTOR WILL VER FY ALL D MENSIONS & CONDITIONS SHOWN ON THESE PLANS AND W/ BU LDING SITE PRIOR TO COMMENCING ANY WORK ON PROJECT.
2. ALL INTERIOR AND EXTERIOR WALLS ARE DIMENSIONED TO THE FACE OF STUDS OR FOUNDATION.
3. THERE SHALL BE A FLOOR OR LANDING ON EACH S DE OF EXTERIOR DOORS. WIDTH NOT LESS THAN THE DOOR SERVED. MIN DIMENSION 36 NCH MEASURED IN THE D RECTION OF TRAVEL.
4. SEE ELECTRICAL PLANS, PLUMBING AND MECHNICAL NOTES.

ABBREVIATIONS

O/C — NDICATES BUILD NG COMPONENT PROVIDED BY OWNER/CONTRACTOR
WC — NDICATES BUILD NG COMPONET PROVIDED BY WHISPER CREEK LOG HOMES
A/EOR — NDICATES ARCHITECT/ENG NEER OF RECORD



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

SHEET TITLE: MAIN FLOOR PLAN
PLAN NO.: M06-445-C-HL
SHEET NO.: A-1.1

WHISPER CREEK LOG HOMES
355- 2nd Avenue East
PO Box 2760
Cardston, Alberta,
Canada T0K 0K0
ph. 403-653-1140
fx. 403-653-1086
engineering@wclh com

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ARCHITECT ENGINEER OF RECORD:

REV SIONS:

No.	By:	Date:	

PROJECT NAME: HEARTLAND 3

OWNER: TREE HUGGER HOMES

ADDRESS: 2604 YELLOWHEAD TRAIL NE EDMONTON, AB T6S 1C2 CANADA

DRAWING TITLE: MAIN FLOOR PLAN

PROJECT NO.: 07-030
FILE PATH: Z:\Projects\2007 Projects 07-001 thru 07-030\07-030 HL3 Tree Hugger Homes M06- S C HL\07-030 HL3 Tree Hugger Homes M06- S C-HL.rvt
DRAWN BY: DCA
CHECKED BY: ABM & KCM
DATE: 9 JAN 2007
PLAN NO.: M06-445-C-HL
SHEET NO.: A-1.1

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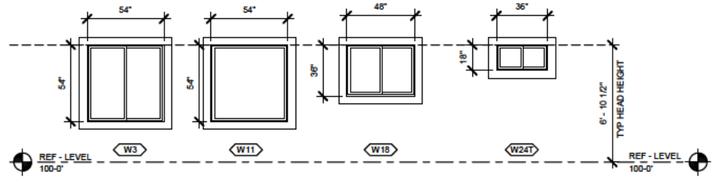
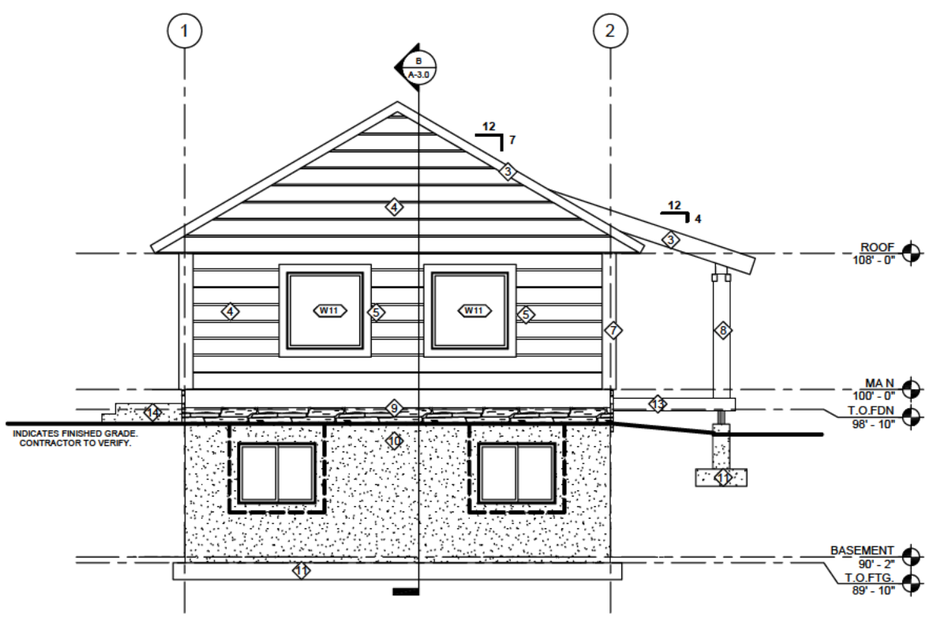


3 WINDOW ELEVATIONS

1/4" = 1'-0"

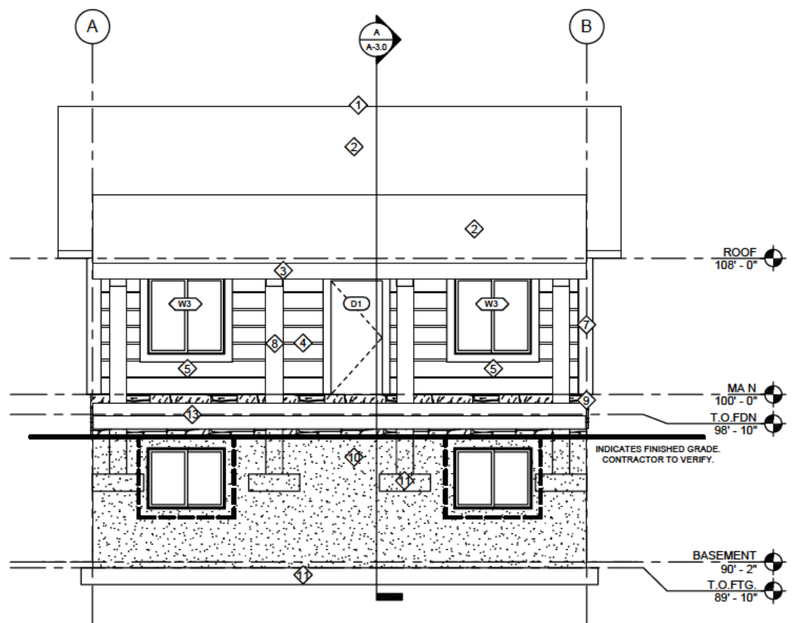
WINDOW SCHEDULE

COUNT	TYPE MARK	ROUGH OPENING WIDTH	ROUGH OPENING HEIGHT	MODEL #	MANF	MAT	FINISH	TEMP	U-VALUE	COMMENTS
3	W3	54"	54"	4/6x4/6 SL	AMSCO	V NYL	ALMOND	No	0.35	
2	W11	54"	54"	4/6x4/6 P	AMSCO	V NYL	ALMOND	No	0.32	
1	W18	48"	36"	4/0x3/0 SL	AMSCO	V NYL	ALMOND	No	0.35	
1	W24T	36"	18"	3/0x1/6 SL	AMSCO	V NYL	ALMOND	Yes	0.35	



2 LEFT ELEVATION

1/4" = 1'-0"



1 FRONT ELEVATION

1/4" = 1'-0"

ELEVATION NOTES

1. CONTRACTOR W LL VERIFY ANY AND ALL STEPS N FOOTINGS & FOUNDATION AS REQU RED BY EXIST NG F NISH GRADES.
2. MOD FICATIONS TO THE STRUCTURE MUST BE APPROVED BY THE A/EOR N WRITING PRIOR TO MAK NG ANY CHANGES. GRADES INDICATED ARE APPROX MATE AND MAY BE MODIFIED SUBJECT TO F NAL SITE CONDITIONS. DRA NAGE AWAY FROM THE STRUCTURE MUST BE MA NTA NED.
3. CONTRACTOR TO NSTALL SNOW STOPS ON ROOF.

ABBREVIATIONS

O/C	NDICATES BUILD NG COMPONENT PROVIDED BY OWNER/CONTRACTOR
WC	NDICATES BUILD NG COMPONET PROVIDED BY WHISPER CREEK LOG HOMES
A/EOR	NDICATES ARCHITECT/ENG NEER OF RECORD

ELEVATION MATERIAL KEY

1	CONT NUOUS R DGE VENT - O/C
2	ASPHALT SH NGLES - O/C
3	ROUGH CUT WOOD FACIA - O/C
4	HAND PLANED LOG SID NG W/ 1" CHINKING - WC
5	ROUGH CUT WOOD TRIM - WC
7	HAND PLANED T MBER CORNER POSTS - WC
8	HAND PLANED T MBER POSTS - WC
9	CULTURED STONE VENEER OVER R M JOIST EXTEND TO GRADE - O/C
10	CONCRETE FOUNDATION - O/C
11	CONCRETE FOOTING - O/C
13	FRAMED DECK, STAIRS & GUARDRAIL AS REQ'D BY FINISHED GRADE (SEE GUARDRA L NOTES – O/C
14	CONCRETE LAND NG, STAIRS & GUARDRA L AS REQ'D BY FINISHED GRADE - O/C

SHEET TITLE: FRONT & LEFT ELEVATIONS

PLAN NO.: M06-445-C-HL

SHEET NO.: A-2.0

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PO Box 2760
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No.	By:	Date:	

PROJECT NAME: HEARTLAND 3

OWNER: TREE HUGGER HOMES

ADDRESS: 2604 YELLOWHEAD TRAIL NE EDMONTON, AB T6S 1C2 CANADA

DRAWING TITLE: FRONT & LEFT ELEVATIONS

PROJECT NO.: 07-030

FILE PATH: Z:\Projects\2007 Projects 07-001 thru 07-030\07-030 WLS Tree Hugger Homes M06- S C HL\07-030 WLS Tree Hugger Homes M06- S C-HL.rvt

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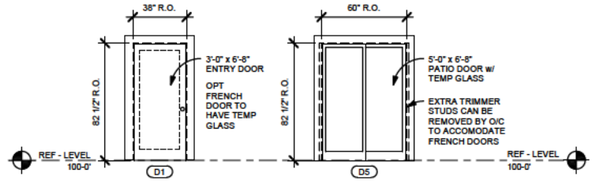
DATE: 9 JAN 2007

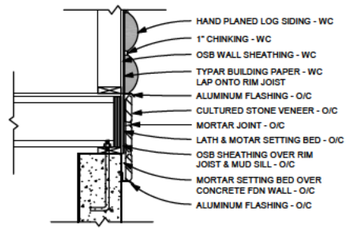
PLAN NO.: M06-445-C-HL

SHEET NO.: A-2.0

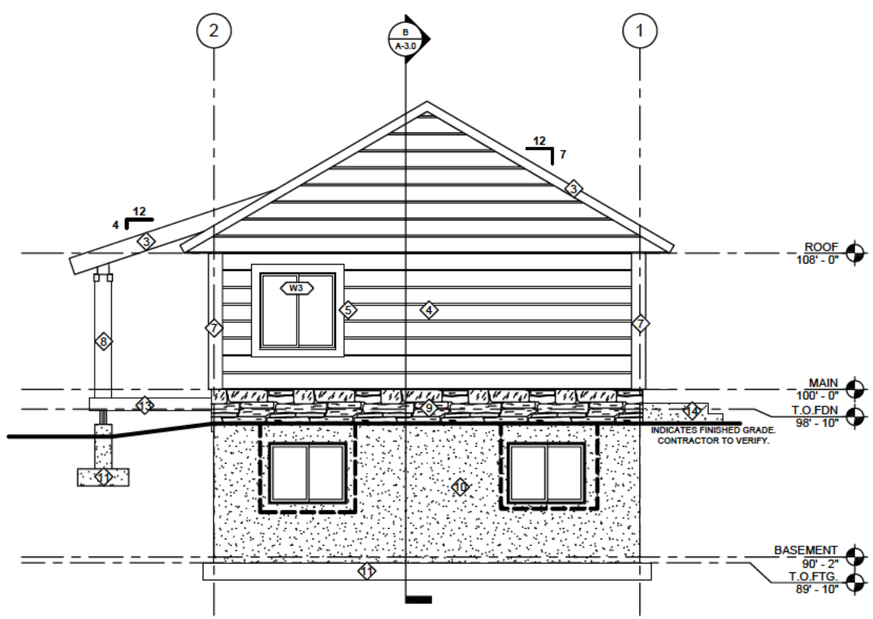
1 10 2007 1:25:10 PM Z:\Projects\2007 Projects 07-001 thru 07-030\07-030 WLS Tree Hugger Homes M06- S C-HL.rvt



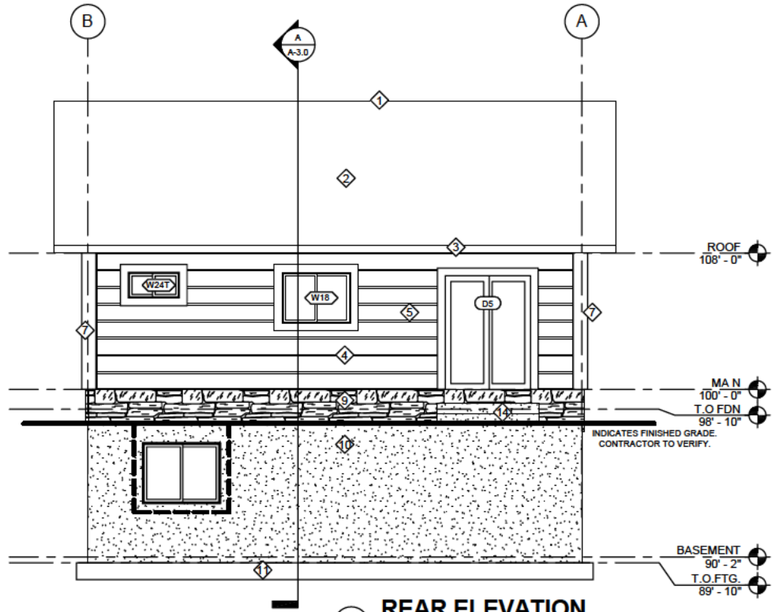
4 DOOR ELEVATIONS
1/4" = 1'-0"



3 CULTURED STONE @ RIM JOIST
3/4" = 1'-0"



2 RIGHT ELEVATION
1/4" = 1'-0"



1 REAR ELEVATION
1/4" = 1'-0"

ELEVATION NOTES

1. CONTRACTOR W LL VERIFY ANY AND ALL STEPS IN FOOTINGS & FOUNDATION AS REQU RED BY EXISTING FINISH GRADES.
2. MODIFICATIONS TO THE STRUCTURE MUST BE APPROVED BY THE A/EOR IN WRITING PRIOR TO MAK NG ANY CHANGES. GRADES NDICATED ARE APPROX MATE AND MAY BE MODIFIED SUBJECT TO FINAL SITE CONDITIONS. DRAINAGE AWAY FROM THE STRUCTURE MUST BE MAINTA NED.
3. CONTRACTOR TO INSTALL SNOW STOPS ON ROOF.

ABBREVIATIONS

O/C	NDICATES BUILD NG COMPONENT PROVIDED BY OWNER/CONTRACTOR
WC	NDICATES BUILD NG COMPONET PROVIDED BY WHISPER CREEK LOG HOMES
A/EOR	NDICATES ARCHITECT/ENG NEER OF RECORD

ELEVATION MATERIAL KEY

1	CONT NUOUS R DGE VENT - O/C
2	ASPHALT SHINGLES - O/C
3	ROUGH CUT WOOD FACIA - O/C
4	HAND PLANED LOG S DING W/ 1" CH NK NG - WC
5	ROUGH CUT WOOD TR M - WC
7	HAND PLANED TIMBER CORNER POSTS - WC
8	HAND PLANED TIMBER POSTS - WC
9	CULTURED STONE VENEER OVER R M JOIST EXTEND TO GRADE - O/C
10	CONCRETE FOUNDATION - O/C
11	CONCRETE FOOT NG - O/C
13	FRAMED DECK, STA RS & GUARDRA L AS REQ'D BY FINISHED GRADE (SEE GUARDRAIL NOTES – O/C
14	CONCRETE LANDING, STA RS & GUARDRAIL AS REQ'D BY F NISHED GRADE - O/C

SHEET TITLE: REAR & RIGHT ELEVATIONS
PLAN NO.: M06-445-C-HL
SHEET NO.: A-2.1

WHISPER CREEK LOG HOMES
355- 2nd Avenue East
PO Box 2760
Cardston, Alberta,
Canada T0K 0K0
ph. 403-653-1140
fx. 403-653-1086
engineering@wclh com

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THESE DESIGNS AND DETAILS ARE BASED ON MANY YEARS OF CONSTRUCTION, DESIGN, AND ENGINEERING PRACTICE IN NUMEROUS DIVERSE JURISDICTIONS. THE PURPOSE IS TO PROVIDE A BASIS FOR THE DESIGNS INCORPORATED IN WHISPER CREEK LOG HOMES (WCLH). HOWEVER, IT IS THE RESPONSIBILITY OF THE OWNER TO CONSULT WITH ARCHITECT OR ENGNEER OF RECORD (E.O.R.) TO REVIEW AND VERIFY ANY AND ALL OF THE ASSUMPTIONS MADE AND DESIGNS PRESENTED. WCLH MAKES NO WARANTY OR GUARANTEE AS TO THE FINAL SITE SPECIFIC APPLICABILITY OF THE DESIGN. ANY AND ALL PROPOSED CHANGES BY THE E.O.R. SHALL BE COORDINATED WITH WCLH. ALL CHANGES MUST BE APPROVED IN WRITING BY WCLH. IF APPROVED, ALL CHANGES WILL RESULT IN ADDITIONAL COSTS AND MAY REQUIRE MODIFICATIONS TO THE PLANS AND WALLS.

ARCHITECT ENGINEER OF RECORD:

REV SIGNS:

No.	By:	Date:	

PROJECT NAME: HEARTLAND 3

OWNER: TREE HUGGER HOMES

ADDRESS: 2604 YELLOWHEAD TRAIL NE EDMONTON, AB T6S 1C2 CANADA

DRAWING TITLE: REAR & RIGHT ELEVATIONS

PROJECT NO.: 07-030
FILE PATH: Z:\Projects\2007 Projects 07-001 thru 07-030\07-030 HL3 Tree Hugger Homes M06- S C HL\07-030 HL3 Tree Hugger Homes M06- S-C-HL.rvt
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CHECKED BY: ABM & KCM
DATE: 9 JAN 2007
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PLAN NO.: M06-445-C-HL

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SECTION NOTES

1. ROOFING: ROOFING WORKMANSHIP, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL OF THE LATEST ADOPTED LOCAL AND STATE BUILDING CODE(S) AND ORDINANCES AS VERIFIED BY THE OWNER/CONTRACTOR. INSTALL MIN CLASS C ROOF COVERING.
2. VALLEY FLASHING: PROVIDE VALLEY FLASHING 28 GALVANIZED SHEET GAUGE (CORROSION-RESISTANT METAL) EXTENDING AT LEAST 11 INCH FROM CENTERLINE EACH WAY.
3. ICE AND WATER SHIELD: PROVIDE ICE & WATER SHIELD CONSISTING OF ONE LAYER NON-PERFORATED TYPE 15 FELT LAPPED 2" HORIZONTALLY & 4" VERTICALLY TO SHED WATER. ONE LAYER NO. 40 COATED ROOFING FELT OR COATED GLASS BASE SHALL BE APPLIED FROM THE EAVES TO A LINE 24" INSIDE THE EXTERIOR WALL LINE WITH ALL LAPS CEMENTED TOGETHER. AS AN ALTERNATE TO NO. 40 FELT. A SELF-ADHERING POLYMER MODIFIED BITUMINOUS SHEET MAY BE USED.
4. ATTIC ACCESS: PROVIDE A MIN 22 INCH X 30 INCH ATTIC ACCESS WITH 30 INCH MIN UNOBSTRUCTED HEADROOM. LOCATE THE ACCESS IN A HALLWAY OR OTHER READILY ACCESSIBLE. A LARGER OPENING MAY BE REQUIRED FOR ACCESS OF MECHANICAL EQUIPMENT.
5. SOFFIT: PROVIDE EXTERIOR PLYWOOD OR OTHER APPROVED EXTERIOR MATERIALS FOR SOFFITS.
VEGETATION, ORGANIC MATERIAL AND CONSTRUCTION DEBRIS.

FIRE BLOCKING NOTES

1. LOCATIONS: FIRE BLOCKING TO BE INSTALLED IN CONCEALED WALL SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES, AT CEILING AND FLOOR LEVEL; AT STUD SPACES AT SOFFITS, ALONG LINE OF STAIR STRINGERS, BETWEEN STRINGERS AT LANDINGS IF UNDERSIDE OF STAIRS IS UNFINISHED, FLOOR AND CEILING JOIST LINES AT 10 FT VERTICALLY AND HORIZONTALLY; AND AT ALL OPENINGS BETWEEN ATTIC SPACES AND CHIMNEY SPACES OF FACTORY-BUILT CHIMNEYS, VENTS, PIPES, DUCTS AND AT ANY OTHER LOCATION WHICH COULD AFFORD PASSAGE OF FLAMES.
2. MATERIALS: FIRE BLOCKING TO CONSIST OF VARIOUS METHODS, INCLUDING 2-INCH NOMINAL LUMBER, GYPSUM BOARD, AND MINERAL WOOL OR GLASS FIBER BATTS.

DECK NOTES

1. CLEARANCE: NO WOOD SHALL BE NEARER THAN 6 INCH TO EARTH UNLESS SEPARATED BY CONCRETE AT LEAST 3 INCH THICK WITH IMPERVIOUS MEMBRANE INSTALLED BETWEEN THE EARTH AND THE CONCRETE UNLESS PRESERVATIVELY TREATED WOOD IS USED.
2. DECKING: 2 INCH NOMINAL THICK MIN PLANKS SHALL BE USED FOR PLANKING WHERE DECK JOIST SPACING IS 16 INCH O.C. OR GREATER. 1 INCH NOMINAL THICK PLANKING SHALL NOT BE USED WHERE DECK JOISTS ARE SPACED GREATER THAN 12 INCH O.C. DECKS AND TERRACES SHALL BE CONSTRUCTED TO SUPPORT APPLICABLE HORIZONTAL AND VERTICAL LOADING, INCLUDING A MIN LIVE LOAD OF 60 PSF.

FIREPLACE AND CHIMNEY NOTES

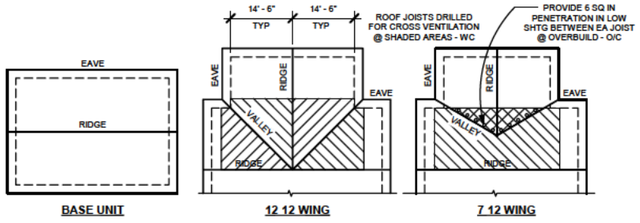
1. FIREPLACE/CHIMNEY FIREPLACE/CHIMNEY WORKMANSHIP, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL OF THE LATEST ADOPTED LOCAL AND STATE BUILDING CODE(S) AND ORDINANCES AS VERIFIED BY THE OWNER/CONTRACTOR. DESIGN OF FIREPLACE AND CHIMNEY SHALL BE BY OWNER/CONTRACTOR AND IS NOT INCLUDED IN THESE DOCUMENTS.
2. MASONRY AND CONCRETE CHIMNEY ANCHORAGE ALL MASONRY AND CONCRETE CHIMNEYS SHALL BE ANCHORED AT EACH FLOOR, CEILING LINE OR ROOF LINE MORE THAN 6 FEET ABOVE GRADE.
3. COMBUSTIBLE MATERIALS COMBUSTIBLE MATERIALS SHALL NOT BE PLACED WITHIN 2 INCH OF MASONRY FIREPLACE SMOKE CHAMBER OR CHIMNEY WALLS. COMBUSTIBLE MATERIAL SHALL NOT BE PLACED WITHIN 6 INCH OF FIREPLACE OPENING. COMBUSTIBLE MATERIALS WITHIN 12 INCH OF THE FIREPLACE OPENING SHALL NOT PROJECT MORE THAN 1/8 INCH FOR EACH INCH DISTANCE FROM THE OPENING OF THE FIREPLACE.
4. CHIMNEY EXTENSION CHIMNEYS SHALL EXTEND AT LEAST 2 FT HIGHER THAN ANY PORTION OF THE BUILDING WITHIN 10 FT HORIZONTAL OF THE CHIMNEY, BUT NOT LESS THAN 3 FT ABOVE A POINT WHERE THE CHIMNEY PASSES THROUGH THE ROOF.
5. FIREPLACE LISTING FACTORY BUILT CHIMNEYS, FIREPLACES AND SHOWER STEAMER APPLIANCES SHALL BE LISTED BY AN APPROVED TESTING AGENCY AND HAVE AN ICC APPROVAL NUMBER. INSTALLATION SHALL CONFORM TO THE CONDITIONS AND MANUFACTURERS INSTALLATION INSTRUCTIONS.
6. LOCATION FUEL BURNING APPLIANCES, INCLUDING FIREPLACES ARE NOT PERMITTED TO BE INSTALLED IN SLEEPING ROOMS, BATHROOMS OR TOILET ROOMS UNLESS THE APPLIANCES ARE DIRECT VENT APPLIANCES.
7. FLASHING PROVIDE FLASHING AT WALL AND ROOF, OR ROOF AND CHIMNEY.
8. HEARTH HEARTHS SHALL BE MADE OF NONCOMBUSTIBLE MATERIALS AT LEAST 4-INCHES THICK AND REINFORCED TO SUPPORT THEIR OWN WEIGHT OR SUPPORTED BY NONCOMBUSTIBLE MATERIALS. THE HEARTH SHALL EXTEND AT LEAST 16 INCH FROM THE FRONT OF AND AT LEAST 8 INCH BEYOND EACH SIDE OF THE FIREPLACE OPENING. WHERE THE FIREPLACE OPENING IS 6 FT OR LONGER, THE HEARTH EXTENSION SHALL EXTEND AT LEAST 20 INCH IN FRONT OF, AND AT LEAST 12 INCH BEYOND EACH SIDE OF THE FIREPLACE OPENING.

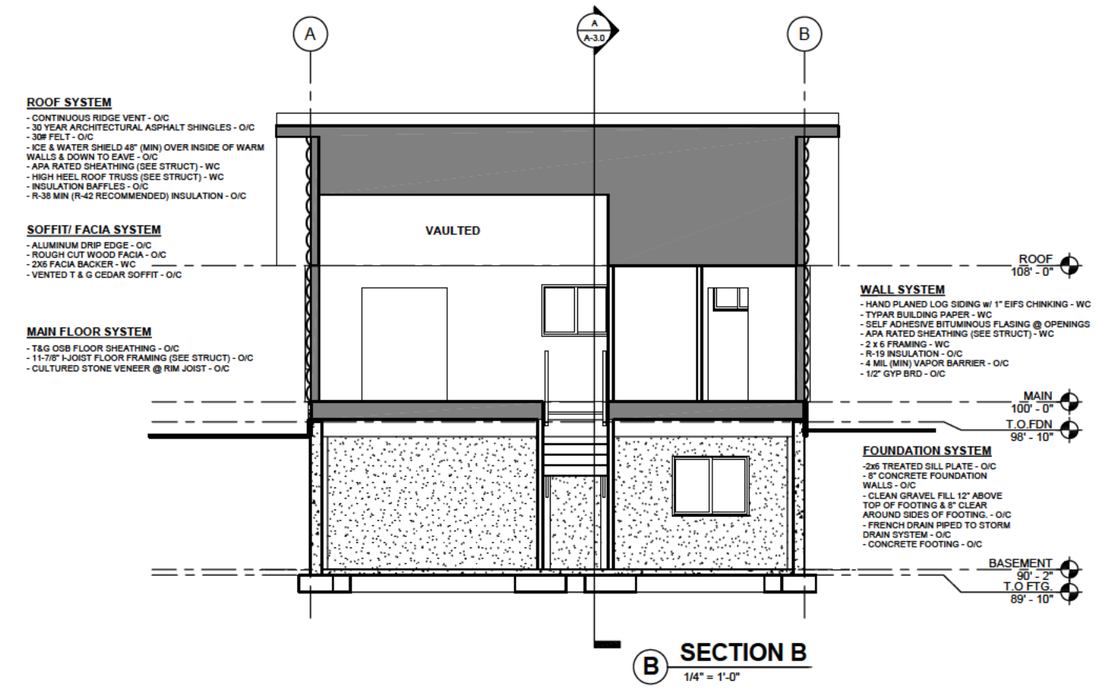
ATTIC VENTILATION CALCULATIONS

REQUIRED VENTILATION PER SIDE	
14.5' / 300 6.96 SQ IN/LF OF EAVE	
CONTINUOUS RIDGE VENT	
RIDGE	6.96 / 2 3.48 SQ IN/LF (EA SIDE)
VENTED SOFFIT / SHEAR BLOCKING	
TYPICAL EAVE	6.96 / 2 3.48 SQ IN/LF
EAVE @ VALLEY	14.5'X2' + 14.5'X14.5' / 2 134 SQ FT 134 SQ FT / 300 64.38 SQ IN / 2 32.19 SQ IN WITHIN FIRST 2' OF SOFFIT @ VALLEY

ATTIC VENTILATION NOTES:

PROVIDE FOR CROSS VENTILATION FOR ENCLOSED ATTICS AND SPACES BETWEEN RAFTERS FOR EACH SEPARATE SPACE. VENTILATION OPENINGS SHALL BE PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. THE TOTAL NET FREE VENTILATION AREA SHALL NOT BE LESS THAN 1 TO 150 OF THE AREA OF THE SPACE VENTILATED. THIS MAY BE REDUCED TO NOT LESS THAN 1 TO 300 IF (1) OPENINGS ARE PROVIDED IN THE UPPER AND LOWER PORTIONS OF THE VENTILATED SPACE, OR (2) A 1 PERM VAPOR BARRIER IS INSTALLED ON THE WARM SIDE OF THE CEILING. PROVIDE A 1 INCH INSULATION BAFFLE BETWEEN THE INSULATION AND THE ROOF SHEATHING AT ALL LOCATIONS OF THE VENT. PROVIDE VENTILATION OPENINGS WITH CORROSION-RESISTANT WIRE MESH WITH 1/8 INCH MIN TO ¼ INCH MAX OPENINGS.





ROOF SYSTEM
- CONTINUOUS RIDGE VENT - O/C
- 30 YEAR ARCHITECTURAL ASPHALT SHINGLES - O/C
- 30# FELT - O/C
- ICE & WATER SHIELD 48" (MIN) OVER INSIDE OF WARM WALLS & DOWN TO EAVE - O/C
- APA RATED SHEATHING (SEE STRUCT) - WC
- HIGH HEEL ROOF TRUSS (SEE STRUCT) - WC
- INSULATION BAFFLES - O/C
- R-38 MIN (R-42 RECOMMENDED) INSULATION - O/C

SOFFIT/ FACIA SYSTEM
- ALUMINUM DRIP EDGE - O/C
- ROUGH CUT WOOD FACIA - O/C
- 2X6 FACIA BACKER - WC
- VENTED T & G CEDAR SOFFIT - O/C

MAIN FLOOR SYSTEM
- T&G OSB FLOOR SHEATHING - O/C
- 11-7/8" I-JOIST FLOOR FRAMING (SEE STRUCT) - O/C
- CULTURED STONE VENEER @ RIM JOIST - O/C

WALL SYSTEM
- HAND PLANED LOG SIDING w/ 1" EIFS CHINKING - WC
- TYPAR BULDING PAPER - WC
- SELF ADHESIVE BITUMINOUS FLASING @ OPENINGS
- APA RATED SHEATHING (SEE STRUCT) - WC
- 2 x 6 FRAMING - WC
- R-19 INSULATION - O/C
- 4 MIL (MIN) VAPOR BARRIER - O/C
- 1/2" GYP BRD - O/C

FOUNDATION SYSTEM
-2x6 TREATED SILL PLATE - O/C
- 8" CONCRETE FOUNDATION WALLS - O/C
- CLEAN GRAVEL FILL 12" ABOVE TOP OF FOOTING & 8" CLEAR AROUND SIDES OF FOOTING. - O/C
- FRENCH DRAIN PIPED TO STORM DRAIN SYSTEM - O/C
- CONCRETE FOOTING - O/C

B **SECTION B**
1/4" = 1'-0"

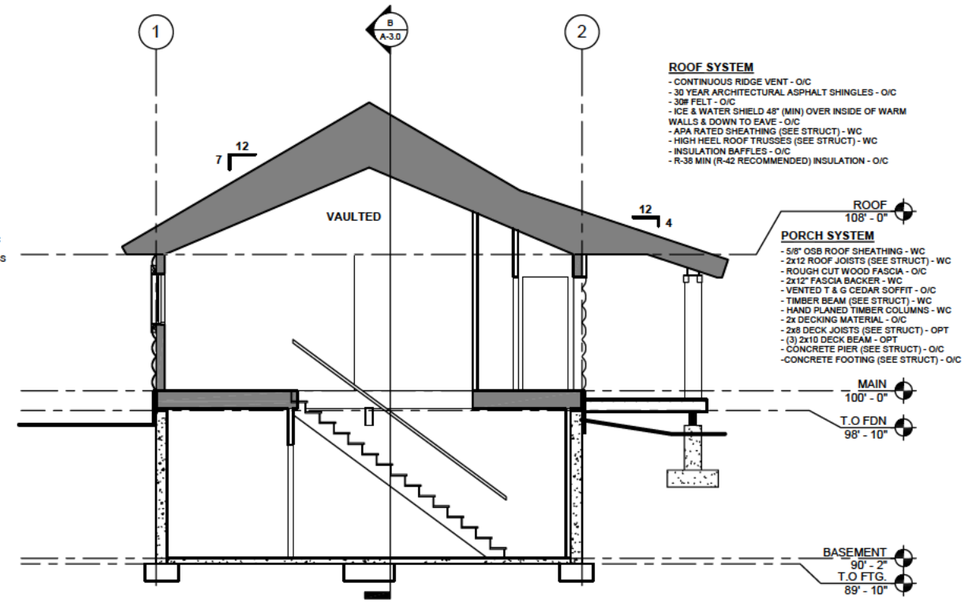
SECTION NOTES

1. CONTRACTOR WILL VER FY ANY AND ALL STEPS N FOOT NGS & FOUNDATION AS REQU RED BY EXISTING F NISH GRADES.
2. MOD FICATIONS TO THE STRUCTURE MUST BE APPROVED BY THE A/EOR IN WRIT NG PRIOR TO MAKING ANY CHANGES. GRADES INDICATED ARE APPROXIMATE AND MAY BE MODIFIED SUBJECT TO FINAL SITE CONDITIONS. DRAINAGE AWAY FROM THE STRUCTURE MUST BE MAINTA NED.

ABBREVIATIONS

O/C	INDICATES BU LDING COMPONENT PROV DED BY OWNER/CONTRACTOR
WC	INDICATES BU LDING COMPONENT PROV DED BY WHISPER CREEK LOG HOMES
A/EOR	INDICATES ARCHITECT/ENGINEER OF RECORD

COMPONENT SCHEDULE		
SEE SCHEDULE A FOR COMPLETE COMPONENT LIST		
COUNT	PART #	DESCR PTION
Windows		
3	W3	4/6x4/6 SL
2	W11	4/6x4/6 P
1	W18	4/0x3/0 SL
1	W24T	3/0x1/0 SL
Porch Support Posts		
4	PP1	8'-0" x 12" DIA.
Corners		
4	C9	8'-0" x 10" Rounded
Porch Beams		
1	PB3	7'-8" x 8" x 8"
2	PB7	10'-8" x 8" x 8"
Brackets		
4	BK6	Top of 12" DIA Porch Post to 8" Porch Beam



SOFFIT/ FASCIA SYSTEM
- ALUMINUM DRIP EDGE - O/C
- ROUGH CUT WOOD FACIA - O/C
- 2X6 FACIA BACKER - WC
- VENTED T & G CEDAR SOFFIT - O/C

WALL SYSTEM
- HAND PLANED LOG SIDING w/ 1" EIFS CHINKING - WC
- TYPAR BULDING PAPER - WC
- SELF ADHESIVE BITUMINOUS FLASHING @ OPENINGS
- APA RATED SHEATHING (SEE STRUCT) - WC
- 2 x 6 FRAMING - WC
- R-19 INSULATION - O/C
- 4 MIL (MIN) VAPOR BARRIER - O/C
- 1/2" GYP BRD - O/C

MAIN FLOOR SYSTEM
- 4" CONCRETE SLAB - O/C
- 6 MIL VAPOR BARRIOR - O/C
- 6" CLEAN GRAVEL FILL - O/C

FOUNDATION SYSTEM
-2x6 TREATED SILL PLATE - O/C
- 8" CONCRETE FOUNDATION WALLS - O/C
- CLEAN GRAVEL FILL 12" ABOVE TOP OF FOOTING & 8" CLEAR AROUND SIDES OF FOOTING. - O/C
- FRENCH DRAIN PIPED TO STORM DRAIN SYSTEM - O/C
- CONCRETE FOOTING - O/C

ROOF SYSTEM
- CONTINUOUS RIDGE VENT - O/C
- 30 YEAR ARCHITECTURAL ASPHALT SHINGLES - O/C
- 30# FELT - O/C
- ICE & WATER SHIELD 48" (MIN) OVER INSIDE OF WARM WALLS & DOWN TO EAVE - O/C
- APA RATED SHEATHING (SEE STRUCT) - WC
- HIGH HEEL ROOF TRUSSES (SEE STRUCT) - WC
- INSULATION BAFFLES - O/C
- R-38 MIN (R-42 RECOMMENDED) INSULATION - O/C

PORCH SYSTEM
- 5/8" OSB ROOF SHEATHING - WC
- 2x12 ROOF JOISTS (SEE STRUCT) - WC
- ROUGH CUT WOOD FASCIA - O/C
- 2x12" FASCIA BACKER - WC
- VENTED T & G CEDAR SOFFIT - O/C
- TIMBER BEAM (SEE STRUCT) - WC
- HAND PLANED TIMBER COLUMNS - WC
- 2x DECKING MATERIAL - O/C
- 2x8 DECK JOISTS (SEE STRUCT) - OPT
- (3) 2x10 DECK BEAM - OPT
- CONCRETE PIER (SEE STRUCT) - O/C
-CONCRETE FOOTING (SEE STRUCT) - O/C

A **SECTION A**
1/4" = 1'-0"

SHEET TITLE: BUILDING SECTION & DETAILS
PLAN NO.: M06-445-C-HL
SHEET NO.: A-3.0

WHISPER CREEK LOG HOMES
355- 2nd Avenue East
PO Box 2760
Cardston, Alberta,
Canada T0K 0K0
ph. 403-653-1140
fx. 403-653-1086
engineering@wclh.com

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ARCHITECT ENGINEER OF RECORD:

REV SIONS:

No.	By:	Date:	

PROJECT NAME: HEARTLAND 3
OWNER: TREE HUGGER HOMES
ADDRESS: 2604 YELLOWHEAD TRAIL NE EDMONTON, AB T6S 1C2 CANADA
DRAWING TITLE: BUILDING SECTION & DETAILS

PROJECT NO.: 07-030
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MECHANICAL NOTES

1. MECHANICAL: MECHANICAL WORKMANSHIP, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL OF THE LATEST ADOPTED LOCAL AND STATE BUILDING CODE(S) AND ORDINANCES AS VERIFIED BY THE OWNER/CONTRACTOR.
2. HEATING SYSTEM: PROVIDE A COMFORT HEATING SYSTEM CAPABLE OF MAINTAINING 68 DEGREES F AT A POINT 36 INCH ABOVE THE FLOOR IN ALL ROOMS.
3. COMBUSTION AIR: PROVIDE COMBUSTION AIR FOR ALL FUEL BURNING APPLIANCES AT A MIN RATE OF 1 SQ INCH PER 3,000 BTU/HR INPUT RATING. OPENINGS SHALL BE LOCATED WITHIN THE TOP 12 INCH AND BOTTOM 12 INCH OF THE ROOM.
4. CLEARANCE: PROVIDE CLEARANCE AROUND EQUIPMENT, MIN 1 INCH SIDES AND REAR AND 6 INCH AT FRONT, UNLESS EQUIPMENT LISTING PROVIDES OTHERWISE.
5. SHUT OFF VALVE: PROVIDE SHUT-OFF VALVE ACCESSIBLE WITHIN 6 FT OF GAS LOG AND ALL GAS APPLIANCES.
6. INSULATED DUCTS: INSULATE HEATING TRUNK AND BRANCH SUPPLY DUCTS IN UNFINISHED AREAS, CRAWL SPACES, ATTICS AND UNHEATED GARAGES.
7. FUEL FIRED WATER HEATER: FUEL-FIRED WATER HEATERS SHALL NOT BE INSTALLED IN A ROOM USED AS A STORAGE CLOSET. NON-DIRECT-VENT WATER HEATERS LOCATED IN BEDROOM OR BATHROOM SHALL BE INSTALLED IN A SEALED ENCLOSURE SO THAT COMBUSTION AIR WILL NOT BE TAKEN FROM THE LIVING SPACE. AN UNOBSTRUCTED WORKING SPACE AT LEAST 30" DEEP AND 36" WIDE SHALL BE PROVIDED IMMEDIATELY IN FRONT OF THE FIREBOX ACCESS OPENING OF THE WATER HEATER.
8. FUEL FIRED FURNACE: THE WATER HEATER SPACE AND FURNACE ROOM SHALL HAVE AN OPENING OR DOOR WITH A CONTINUOUS PASSAGEWAY AT LEAST 2' IN WIDTH AND LARGE ENOUGH TO PERMIT REMOVAL OF THE LARGEST EQUIPMENT IN THE ROOM. AN UNOBSTRUCTED WORKING SPACE AT LEAST 30" DEEP AND THE HEIGHT OF THE FURNACE (30" MINIMUM) SHALL BE PROVIDED ALONG THE ENTIRE FRONT OR FIREBOX SIDE OF THE FURNACE. A WARM AIR FURNACE SHALL NOT BE INSTALLED UNDER A STAIRWAY.
9. GAS PIPING PLAN: (DEFERED SUBMITTAL WHEN REQ'D) A GAS PIPING SCHEMATIC DESIGN SHALL BE PREPAIRED AND SUBMITTED BY THE CONTRACTOR. PLAN SHALL INCLUDE OPERATING PRESSURE, TYPE OF PIPING MATERIAL, SIZE OF PIPING, LENGTH OF PIPING RUNS, CAPACITY OF EACH APPLIANCE IN BTU/H OR CUBIC FT PER HR; IDENTIFY BRAND, VENTING AND LOCATION OF EACH REGULATOR.
10. PRE FAB FIREPLACE: (DEFERED SUBMITTAL) PROVIDE PRE-FAB FIRE PLACE INSERT LISTING AND INSTALLATION GUIDE.
11. CLOTHES DRYER VENT: VENT CLOTHES DRYER TO THE OUTSIDE. MAX LENGTH OF CLOTHES DRER DUCT IS 25 FT REDUCED 2.5 FT FOR EACH 45-DEGREE ELBOW AND 5-FT FOR EACH 90-DEGREE ELBOW (15-FT MAX W/ (2) 90 DEGEREE ELBOWS). PROVIDE BOOSTER FAN IF LONGER.
12. VENTILATION: BATHROOMS, WATER CLOSET COMPARTMENTS AND OTHER SIMILAR ROOMS WITH LESSTHAN 1-1/2 SQ FT OPERABLE WINDOW AREA SHALL HAVE A MECHANICAL VENTILATION SYSTEM CAPABLE OF PRODUCING 50 CFM FOR INTERMITTENT OPERATION OR 20 CFM FOR CONTINUOUS OPERATION. VENTILATION AIR SHALL BE EXHAUSTED DIRECTLY TO THE OUTSIDE.
13. HEATING DUCTS: JOINTS FOR RESIDENTIAL HEATING DUCTS SHALL BE MECHANICALLY FASTENED BY MEANS OF AT LEAST THREE (3) SHEET METAL SCREWS EVENLY SPACED. SUPPORT DUCTS WITH APPROVED METAL SUPPORTS. NO CLOTH TYPE DUCT TAPE IS ALLOWED. METALLIC OR FOIL TAPE MUST BE USED. ALL JOINTS, TRANSVERSE AND LONGITUDINAL SEAMS AND CONNECTIONS MUST BE PROPERLY SEALED WITH MASTIC TAPE, GASKETING OR OTHER APROVED CLOSURE SYSTEMS. GAS LINES SHALL NOT PASS THROUGH OR PENETRATE ANY DUCT OR PLENUM.
14. VENT DUCTS: DUCTS USED FOR KITCHEN RANGE, DRYER, BATHROOM AND LAUNDRY ROOM VENTILATION SHALL HAVE A SMOOTH, NON-COMBUSTIBLE, NON-ABSORBENT SURFACE. DUCTS SHALL TERMINATE OUTSIDE THE BUILDING AND SHALL BE EQUIPPED WITH BACK DRAFT DAMPERS.
15. COMBUSTABLE SURFACE: NO UNPROTECTED COMBUSTIBLE SURFACE SHALL BE LOCATED WITHIN 30 INCHES OF A RANGE TOP AND COOKING SURFACE.
16. METERS: LOCATION OF GAS AND ELECTRICAL METERS SHALL BE LOCATED IN AN AREA THAT IS PROTECTED FROM SNOW AND ICE.

PLUMBING NOTES

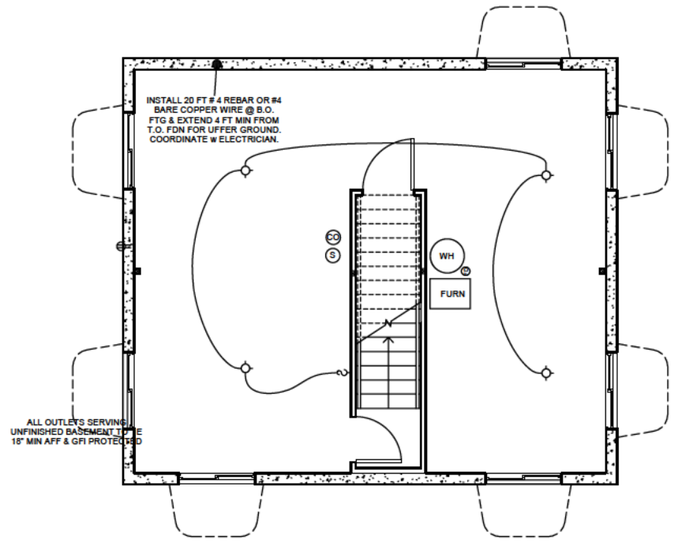
1. PLUMBING: PLUMBING WORKMANSHIP, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL OF THE LATEST ADOPTED LOCAL AND STATE BUILDING CODE(S) AND ORDINANCES AS VERIFIED BY THE OWNER/CONTRACTOR.
2. WHIRLPOOL TUBS: PROVIDE ACCESS FOR JETTED TUB MOTOR COMPONENTS.
3. SHUT OFF VALVE: PROVIDE A SHUT-OFF VALVE FOR ALL FIXTURE SUPPLIES.
4. FLOOR DRAIN: PROVIDE A FLOOR DRAIN UNDER THE WATER HEATER. ON WOOD STRUCTURE FLOORS, PROVIDE A PAN WITH A DRAIN UNDER A WATER HEATER AND STEAM SHOWER EQUIPMENT.
5. WATER CLOSET: PROVIDE TANK TYPE WATER CLOSETS WITH A FLOW RATE OF NOT MORE THAN 1.6 GALLONS PER FLUSH. WATER CLOSETS SHALL HAVE A MIN FRONT CLEARANCE OF 21 INCH AND WIDTH OF 30 INCH.
6. SHOWER: PROVIDE SHOWERHEADS WITH A FLOW RATE OF NOT MORE THAN 2.5 GPM. SHOWERS TO BE FINISHED WITH A NON-ABSORBANT MATERIAL, TO A HEIGHT OF 72 INCH ABOVE FINISH FLOOR. FLOOR AREA SHALL BE OF DIMENSIONS SUCH THAT A 30 INCH CIRCLE CAN BE ENCOMPASSED WITHIN THE COMPARTMENT. PROVIDE MIN 22 INCH WIDE DOOR. PROVIDE ANTI-SCALE SHOWER VALVES ON ALL SHOWER AND TUB-SHOWER COMBINATION INSTALLATIONS.
7. HOSE BIBS: PROVIDE NON-FREEZE TYPE BACKFLOW PREVENTER HOSE BIBS.
8. PLUMBING VENTS: ALL PLUMBING VENTS THROUGH THE ROOF SHALL BE MIN 3 INCH DIAMETER PIPE. PROTECT AGAINST BREAKAGE FROM SLIDING SNOW AND ICE ON SUPERY ROOF SURFACES.
9. EXPANSION TANK: PROVIDE EXPANSION TANK ON CULINARY WATER SYSTEM.
10. PRESSURE RELIEF VALVE: ALL APPLIANCES (WATER HEATER, BOILER, STEAM GENERATOR, ETC.) WHICH REQUIRE PRESSURE RELIEF VALVES SHALL BE PROVIDED WITH A FULL SIZED DRAIN WHICH SHALL EXTEND FROM THE VALVE TO A FLOOR DRAIN OR OTHER APPROVED LOCATION.
11. BACKWATER VALVES: FIXTURES WITH FLOOD LEVEL RIMS LOCATED BELOW THE ELEVATION OF THE NEXT UPSTREAM MANHOLE COVER OF THE PUBLIC SEWER SERVING SUCH FIXTURES SHALL BE PROTECTED FROM BACKFLOW OF SEWAGE BY INSTALLING AN APPROVED BACKWATER VALVE. FIXTURES HAVING FLOOD LEVEL RIMS ABOVE THE ELEVATION OF THE NEXT UPSTREAM MANHOLE SHALL NOT DISCHARGE THROUGH THE BACKWATER VALVE. BACKWATER VALVES SHALL BE PROVIDED WITH ACCESS. BACKWATER VALVES SHALL HAVE NONCOROSIVE BEARINGS, SEATS AND SELF-ALIGNING DISCS. VALVE ACCESS COVERS SHALL BE WATER TIGHT.
13. WATER HEATER: IN HIGH SEISMIC AREAS PROVIDE SEISMIC ANCHORAGE TO ALL WATER HEATERS.
14. PLUMBING CONNECTORS: SLIP JOINT PLUMBING CONNECTIONS ARE NOT ALLOWED IN CONCEALED CONSTRUCTION AREAS.

ELECTRICAL LEGEND

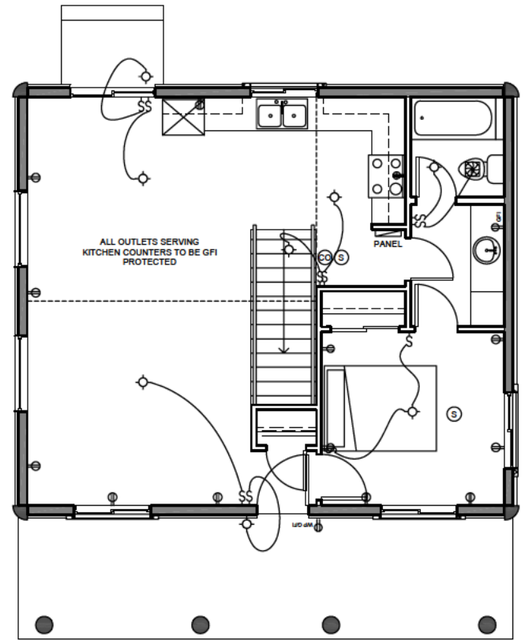
- CEIL NG MOUNT LIGHT FIXTURE
- WALL MOUNT LIGHT FIXTURE
- HANGING LIGHT FIXTURE (CHANDEL ER)
- FLOOD LIGHT (SOFFIT MOUNTED)
- CEIL NG FAN LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- RECESSED EXHAUST FAN
- SMOKE DETECTOR N SER ES WITH BATTERY BACK-UP
- CARBON MONOXIDE DETECTOR N SERIES WITH BATTERY BACK-UP
- DOOR BELL CH MES
- 110V DUPLEX OUTLET
- 220V OUTLET
- 110V DUPLEX GROUND FAULT INTERRUPTED OUTLET
- 110V DUPLEX WATER PROOF GROUND FAULT INTERUPTED OUTLET
- SWITCH
- DIMMER SWITCH
- DATA/TELEPHONE JACK w/ CAT 5 TO NETWORK PANEL N UTILITY ROOM
- T.V. OUTLET (COAXIAL CABLE)
- CENTRAL VACUUM PORT
- PANEL

ELECTRICAL NOTES:

1. ELECTRICAL ELECTRICAL WORKMANSHIP, INSTALLATION AND MATERIALS SHALL BE N ACCORDANCE WITH ALL OF THE LATEST ADOPTED LOCAL AND STATE BUILD NG CODES AND ORD NANCES AS VER F ED BY THE OWNER/CONTRACTOR.
2. SERVICE AND CIRCUITS ELECTRICIAN TO DETERM NE SIZE OF SERVICE AND CIRCUIT NG REQU RED FOR PROJECT. COORD NATE ALL WORK W/ OTHER TRADES.
3. WORKING SPACE ELECTRICAL PANELS SHALL HAVE A 30 INCH X 36 INCH M N WORKING SPACE AND 6 FT 6 INCH M N HEADROOM.
4. ADDED ELECTRICAL CONTRACTOR AND ELECTRICIAN WILL VERIFY F NAL PLACEMENT OF ALL ELECTRICAL AND ANY ADDITIONL ELECTRICAL REQUIREMENTS WITH OWNER PRIOR TO NSTALLATION. (COVE LIGHT NG, DISPLAY LIGHTING, OUTDOOR FLOOD AND YARD LIGHTING, HOT TUB, PHONE, OUTLETS, SWITCHES, SPEAKER OUTLETS, ETC.)
5. GFCI PROTECTION ALL RECEPTICALS AT KITCHEN COUNTERTOPS, IN GARAGES, BATHROOMS, CRAWL SPACES, UNFINISHED BASEMENTS AND OUTS DE RECEPTACLES SHALL BE GFCI PROTECTED (EXCEPT DEDICATED CIRCUITS).
6. WEATHERPROOF GFCI PROV DE 1 WEATHERPROOF GFCI OUTLET ACCESS BLE FROM GRADE LEVEL NEAR THE FRONT AND BACK OF THE DWELLING.
7. 20 AMP CIRCUITS PROVIDE (2) M N 20-AMP CIRCUITS FOR KITCHEN COUNTER OUTLETS. PROVIDE NECESSARY CONNECTIONS FOR DISPOSAL, DISHWASHER, TRASH COMPACTOR, & MICROWAVE IF USED. (CHECK WITH OWNER)
8. ARC-FAULT CIRCUIT INTERUPTER ALL BRANCH CURCUITS THAT SUPPLY 120 VOLT, SINGLE-PHASE, 15 AND 20 AMP CIRCUITS N BEDROOMS SHALL BE PROTECTED BY AN ARC-FAULT C RCUIT NTERRUPTER.
9. JETTED TUB PROVIDE NECESSARY ELECTRICAL CONNECTIONS FOR JETTED TUB IN MASTER BATH. (CHECK WITH OWNER FOR UNIT TO BE USED.) OUTLETS AND SWITCHES ARE NOT PERMITTED WITH N 5 FT OF HOT TUBS OR JETTED TUBS. FIXTURES OVER BATHTUBS AND SHOWERS SHALL BE THE TYPE MARKED "SUITABLE FOR WET LOCATIONS" OR "SUITABLE FOR DAMP LOCATIONS"
10. ATTIC ACCESS PROV DE A SWITCH CONTROLLED LIGHTING OUTLET AT THE ENTRY TO ANY ATTIC.
11. SMOKE DETECTORS SMOKE DETECTORS SHALL BE MOUNTED ON THE CE LING OR ON THE WALL, NOT MORE THAN 12" FROM THE CEILING, LOCATED N EACH OF THE FOLLOW NG LOCATIONS: EVERY BEDROOM, AREAS OF ACCES TO BEDROOMS, ALL LEVELS, ALL ROOMS WITH SLOPED CE LINGS NEXT TO HALLS SERV NG BEDROOMS. ALL DETECTORS SHALL BE HAVE BATERY BACKUP AND HARDW RED IN SER ES SO THAT AN AUD BLE ALARM SOUNDS IN ALL SLEEPING AREAS AT THE SAME T ME.
12. CARBON MONOXIDE DETECTOR CARBON MONOX DE DETECTORS SHALL BE INSTALLED ON EACH HABITABLE LEVEL OF A DWELLING EQU PED WITH FUEL BURNING APPLIANCE.
13. CLEARENCES LIGHTS N CLOSETS SHALL COMPLY WITH MIN CLEARANCE CONDITIONS OF THE CODE(S). COMBUST BLE INSULATION SHALL BE SEPARATED A M N OF 3 NCH FROM RECESSED LIGHT NG FIXTURES.



1 BASEMENT ELECTRICAL PLAN
1/4" = 1'-0"



2 MAIN FLOOR ELECTRICAL PLAN
1/4" = 1'-0"

SHEET TITLE: ELECTRICAL PLANS
PLAN NO.: M06-445-C-HL
SHEET NO.: E-1.0

WHISPER CREEK LOG HOMES
355- 2nd Avenue East
PO Box 2760
Cardston, Alberta,
Canada. T0K 0K0
ph. 403-653-1140
fx. 403-653-1086
engineering@wcli.com

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ARCHITECT ENGINEER OF RECORD:

REV SIONS:

No.	By:	Date:	

PROJECT NAME: HEARTLAND 3

OWNER: TREE HUGGER HOMES

ADDRESS: 2604 YELLOWHEAD TRAIL NE EDMONTON, AB T6S 1C2 CANADA

DRAWING TITLE: ELECTRICAL PLANS

PROJECT NO.: 07-030	FILE PATH: Z:\Projects\2007 Projects 07-001 thru 07-030\07-030 HL3 Tree Hugger Homes M06- S C HL\07-030 HL3 Tree Hugger Homes M06- S-C-HL.rvt
	DRAWN BY: DCA
	CHECKED BY: ABM & KCM
	DATE: 9 JAN 2007
PLAN NO.: M06-445-C-HL	SHEET NO.: E-1.0

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FOOTING SCHEDULE

CANADA

MARK	WIDTH	LENGTH	THICK	CROSSWISE REINFORCING			LENGTHWISE REINFORCING			NOTES
				NO.	SIZE	GRADE	NO.	SIZE	GRADE	
FC 20	24"	CONTINUOUS FOOTING	8"	3	10M	60	CONTINUOUS FOOTING	10M	60	
FC 26	30"	CONTINUOUS FOOTING	10"	4	10M	60	CONTINUOUS FOOTING	10M	60	
FS 30	36"	36"	10"	4	10M	60	4	10M	60	
FS 36	42"	42"	10"	5	10M	60	5	10M	60	
FS 40	48"	48"	12"	6	10M	60	6	10M	60	
FS 50	60"	60"	12"	8	10M	60	8	10M	60	
FS 60	72"	72"	14"	10	10M	60	10	10M	60	
FS5086	60"	102	12"	14	10M	60	14	10M	60	
FS3688	42"	104	10"	14	10M	60	14	10M	60	
FS60108	72"	126	14"	15	10M	60	15	10M	60	

CONCRETE PIER SCHEDULE

CANADA

NO	WIDTH	LENGTH	HEIGHT U/S SLAB	VERTICLE REINFORCING			HORIZONTAL REINFORCING			NOTES
				NO.	SIZE	GRADE	NO.	SIZE	GRADE	
	12" DIA		MIN 36"	4	15M	60	TIES @ 10" O/C	10M	60	

FOUNDATION WALL REINFORCING

	8"	CONTINUOUS	9' 0"	16" O/C	10M	60	7	10M	60	
	8"	CONTINUOUS	2' 0"	2	10M	60	2	10M	60	
	8"	CONTINUOUS	5' 0"	24" O/C	10M	60	5	10M	60	

SLAB SCHEDULE

	4" CONCRETE SLAB	10M @ 32" O/C E.W.
	5" CONCRETE SLAB	10M @ 24" O/C E.W.

FOOTING & FOUNDATION PLAN NOTES

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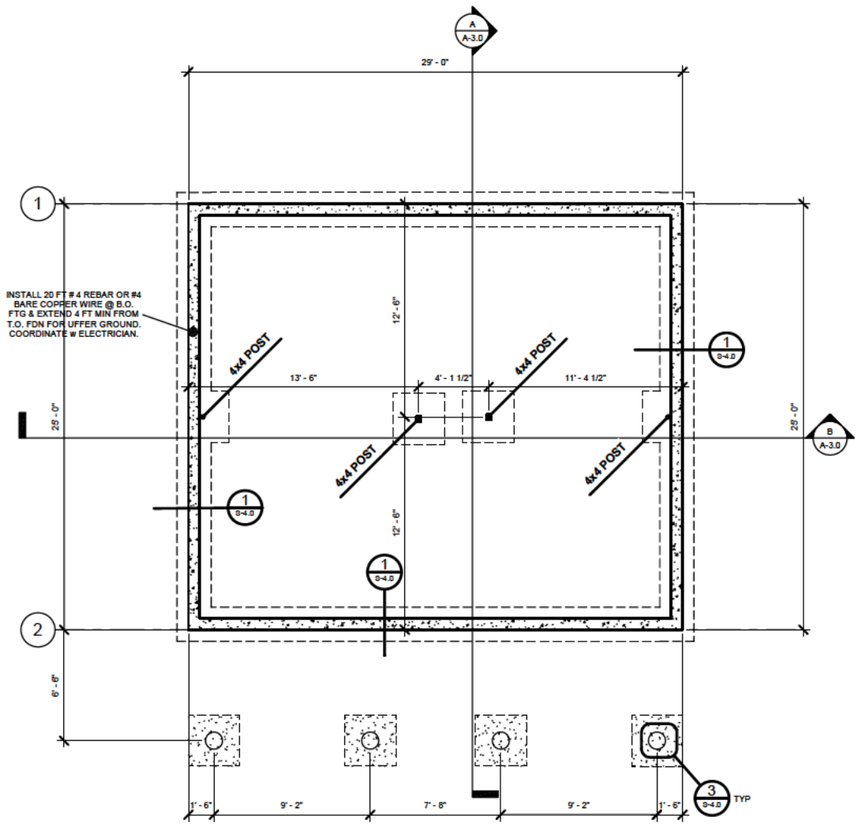
2. DETAILS ARE NOTED ON THE PLANS N TYPICAL LOCATIONS AND SHALL BE REPEATED WHERE S M LAR CONDITIONS EXIST. SEE TYPICAL DETAILS AND GENERAL NOTES.
3. SEE SHEETS S-4.0 & S-5.0 FOR STRUCTURAL NOTES & DETA LS.
4. SEE PLANS, SHEAR WALL NOTES, AND SCHEDULE FOR WALL SHEATHING AND ANCHOR BOLTS. U N.O. M N MUM ANCHOR BOLTS SHALL BE 5/8" Ø WITH 7 INCHES MIN EMBED NSTALLED AT 32 INCHES MAX ON CENTER. PLATE WASHERS A M NIMUM OF 2 INCHES BY 2 NCHES BY 3/16 INCH THICK SHALL BE USED ON EACH BOLT.
5. FOUNDATION WALLS SHALL BE LATERALLY SUPPORTED UNT L SUPPORT MEMBERS (FLOOR FRAMING AND SLABS) HAVE BEEN INSTALLED.
6. BASEMENT W NDOWS SHALL BE NSTALLED TO MEET EGRESS, LIGHT AND VENT LATION REQU REMENTS PER BC. W NDOWS, FRAMES AND AREA WELLS ARE FURNISHED AND LOCATED ON SITE BY CONTRACTOR.

LEGEND

FC-18	NDICATES FOOTING TYPE. SEE FOOT NG SCHEDULE.
F- -S	NDICATES STEP N FOOT NG/FOUNDATION. SEE FOOT NG & FOUNDATION DETA L.
HDQ8 / PHD2 / MST48	NDICATES LOCATIONS FOR S MPSON HOLDOWN. SEE NOTES & HOLDOWN DETAILS



1 FOOTING & FOUNDATION PLAN
1/4" = 1'-0"

SHEET TITLE: FOOTING & FOUNDATION PLAN
PLAN NO.: M06-445-C-HL
SHEET NO.: S-1.0

WHISPER CREEK LOG HOMES
355- 2nd Avenue East
PO Box 2760
Cardston, Alberta,
Canada T0K 0K0
ph. 403-653-1140
fx. 403-653-1086
engineering@wclh com

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ARCHITECT ENGINEER OF RECORD:

REV SIONS:

No.	By:	Date:	

PROJECT NAME: HEARTLAND 3

OWNER: TREE HUGGER HOMES

ADDRESS: 2604 YELLOWHEAD TRAIL NE EDMONTON, AB T6S 1C2 CANADA

DRAWING TITLE: FOOTING & FOUNDATION PLAN

PROJECT NO.: 07-030

FILE PATH: Z:\Projects\2007 Projects 07-001 thru 07-030\07-030 HL3 Tree Hugger Homes M06- S-C HL\07-030 HL3 Tree Hugger Homes M06- S-C-HL.rvt

DRAWN BY: DCA

CHECKED BY: ABM & KCM

DATE: 9 JAN 2007

PLAN NO.: M06-445-C-HL

SHEET NO.: S-1.0

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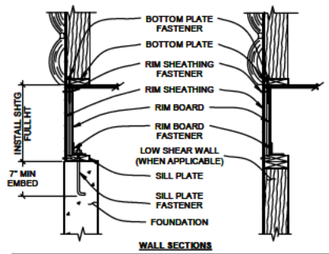

WALL SECTIONS

WALL BASE CONNECTION SCHEDULE

LOCATION	FASTENER OR MEMBER
BOTTOM PLATE	2X6 X CONT
FASTENER	16d NAILS @ EA JST, BLKG & CONT @ 3-1/2" O.C.
RIM SHEATHING	7/16" APA 2 4/16 EXT SHTG
FASTENER	8d NAILS @ 3-1/8" O.C. ALL EDGES
RIM BOARD	1-1/8" MIN LVL RIM BOARD
FASTENER TO SILL PL OR TOP PLATE	A35's @ 24" O.C. (ONLY REQD W/ GABLE END DOOR OR WINDOW FEATURE WALLS) STAINLESS STL OR Z-MAX @ TREATED PL
LOW SHEAR WALL	7/16" APA 2 4/16 EXT SHTG
FASTENER	MIN 8d, EDGES 3-1/8" O.C. FIELD 12" O.C.
SILL PLATE	2x6 X CONT PRESSURE TREATED
FASTENER (1.)	5/8" DIA A.B. @ 32" O.C. U.N.O. (2,3)

NOTES:
1. PRE-DRILL FOR LAG BOLT INSTALLATION TO PREVENT SPLITTING WOOD OR TWISTING OFF LAG BOLT HEAD.
2. 3/16" x 2" x 0'-2" PLATE WASHERS REQD IN SEISMIC DESIGN CATEGORY D, E, & F (ZONE 3 & 4)
3. INSTALL A.B. @ TIGHTER SPACING (=32" O.C.) WHERE INDICATED ON PLANS & DETAILS

2 Zone WCLH Shear Engineered with Wood & Plastic WCLH Wall Base Conn.jpg

WCLH WALL BASE CONNECTION

NOT TO SCALE

FLOOR JOIST SCHEDULE

	19.2" O.C.	16" O.C.
11-7/8"	BCI 6000	BCI 5000
	TJI 210	TJI 110's
	LP1 200	LP1 200
	JSI 20	LP1 20

KEYED NOTES

1. INSTALL LVL BEAMS IN PLACE OF JOISTS FOR HEAVY F REPLACE/HEARTH (VERIFY w/ ARCHITECT OR RECORD).

FLOOR FRAMING PLAN NOTES

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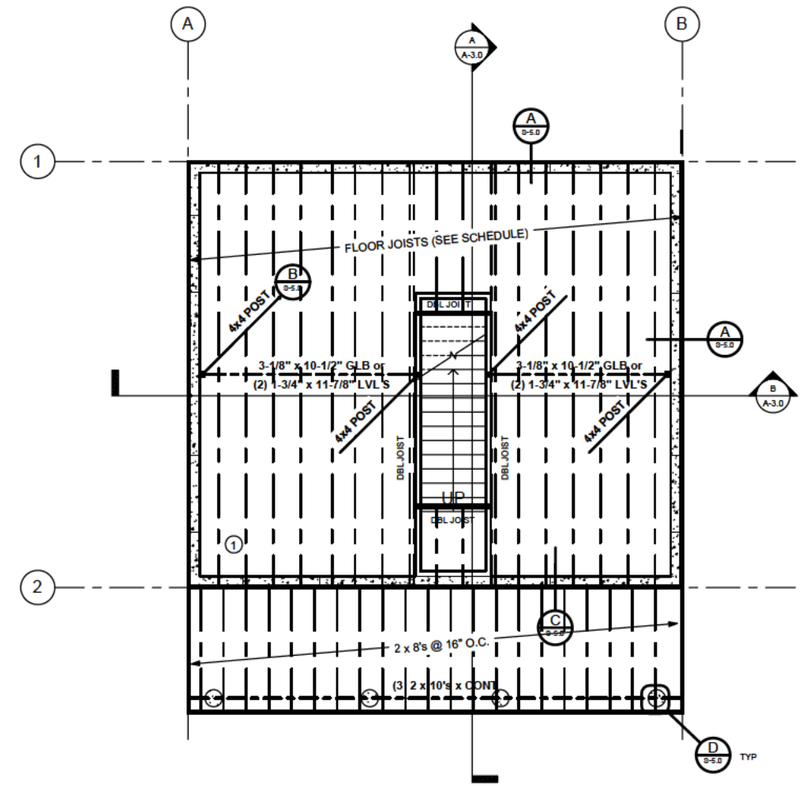
4. PLACE 2 STUDS MIN MUM AT ALL BEAMS, HEADERS AND G RDER TRUSS BEAR NG POINTS WITH SPANS GREATER THAN SIX FEET, UNLESS NOTED OTHERWISE. MULT PLE STUDS AND COLUMNS SHALL EXTEND CONT NUOUS TO FOUNDATION OR SUPPORT NG BEAM BELOW. USE MULTIPLE SOL D BLOCKING AT FLOORS.
5. SEE FLOOR SHEATHING NOTES FOR FLOOR SHEATHING SIZE & NAIL NG.
6. AT FLUSH BEAMS USE S MPSON ITT SERIES (WEB JOISTS) OR JB SER ES (WOOD JOISTS) TOP FLANGE JOIST HANGERS EACH JOIST U N.O.
7. ARRANGE JOIST LOCATIONS AT BATHROOM AND KITCHEN AREAS TO AVO D CONFLICT WITH PLUMB NG.
8. FLOOR JOISTS UNDER FIREPLACE HEARTHS MAY NEED SPACING REDUCED AND/OR SUBSTITUTED W/ LVL's TO SUPPORT THE ADDED LOAD NG. VERIFY W/ ENGINEER.
9. HOT TUBS OR OTHER OWNER NSTALLED ITEMS THAT IMPOSE HEAVY LOADS ON STRUCTURAL MEMBERS W LL REQU RE ADDITIONAL ENG NEER NG IF NOT SHOWN ON ORIGINAL PLANS USED FOR DESIGN. STRUCTURAL MEMBERS MAY NEED TO BE NCREASED FOR THE ADDITIONAL IMPOSED LOAD NG.
10. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED LUMBER OR FOUNDATION REDWOOD. ALL WOOD SUPPORT MEMBERS EXPOSED TO WEATHER SHALL BE TREATED OR PROTECTED TO PREVENT MOISTURE OR WATER ACCUMULATION ON THE SURFACE.D FOR THE ADDITIONAL MPOSED LOAD NG.



1 MAIN FLOOR FRAMING PLAN

1/4" = 1'-0"

SHEET TITLE: FLOOR FRAMING PLAN
PLAN NO.: M06-445-C-HL
SHEET NO.: S-2.0

WHISPER CREEK LOG HOMES
355- 2nd Avenue East
PO Box 2760
Cardston, Alberta,
Canada T0K 0K0
ph. 403-653-1140
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ARCHITECT ENGINEER OF RECORD:

REV SIGNS:

No.	By:	Date:	

PROJECT NAME: HEARTLAND 3

OWNER: TREE HUGGER HOMES

ADDRESS: 2604 YELLOWHEAD TRAIL NE EDMONTON, AB T6S 1C2 CANADA

DRAWING TITLE: FLOOR FRAMING PLAN

PROJECT NO.: 07-030
PLAN NO.: M06-445-C-HL
FILE PATH: Z:\Projects\2007 Projects 07-001 thru 07-030\07-030 WLS Tree Hugger Homes M06- S C HL\07-030 WLS Tree Hugger Homes M06- S-C-HL.rvt
DRAWN BY: DCA
CHECKED BY: ABM & KCM
DATE: 9 JAN 2007
SHEET NO.: S-2.0

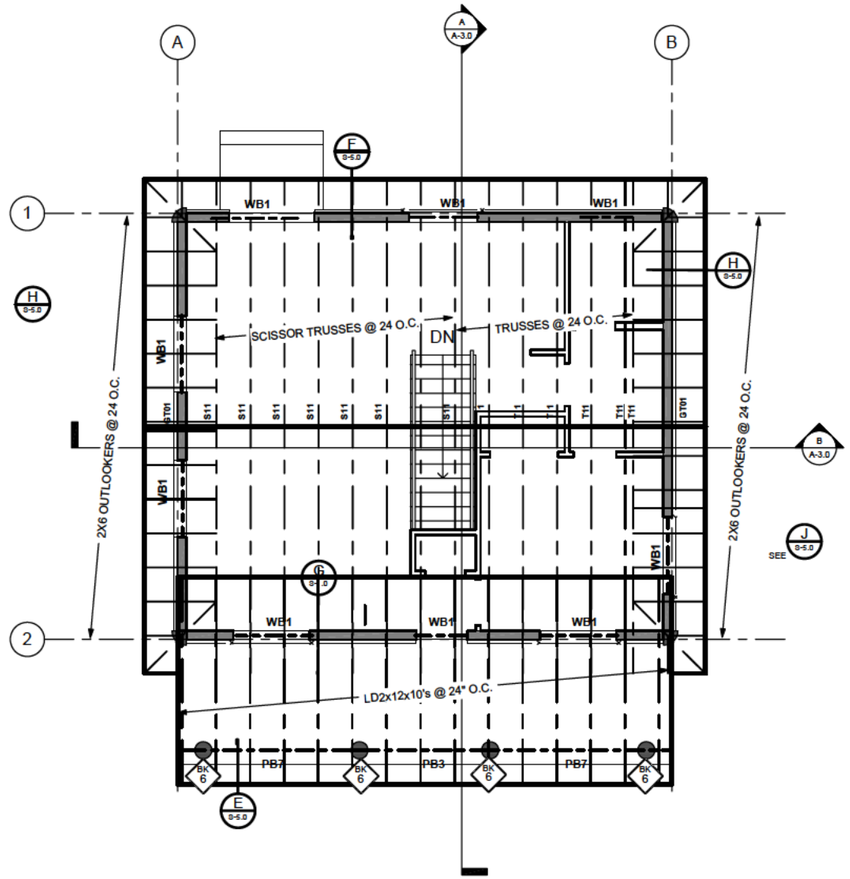
1 10 2007 1:25 S1W Z:\Projects\2007 Projects\07-001 thru 07-030\07-030 WLS Tree Hugger Homes M06- S-C-HL.rvt

ROOF RAFTERS		
Count	Type	Description
2	GT01	25' Sided Gable End Wall - 7/12
8	S11	Scissor 25' 7/12 - Roof A (24" O.C.)
6	T11	Flat 25' - 7/12 - Roof A (24" O.C.)

BEAM SCHEDULE

NOTES: SEE DESIGN CRITERIA FOR LOADING
SEE LUMBER NOTES FOR ADDITIONAL GRADING INFORMATION

NO.	DESCRIPTION	GRADE
PB3	8" x 8" x 7'-8" T MBER	SPF
PB7	8" x 8" x 10'-8" T MBER	SPF
WB1	(3) 2x10	SPF



1 ROOF FRAMING PLAN
1/4" = 1'-0"

ROOF FRAMING PLAN NOTES

1. THIS IS ONE PAGE OF A SET OF PROJECT DOCUMENTS, AND MAY NOT BE USED ALONE. THE CONTRACTOR, SUBCONTRACTORS AND OWNER, AS PART OF THE PROJECT TEAM, SHALL REVIEW AND BE RESPONSIBLE FOR INFORMATION CONTAINED IN ALL PROJECT DOCUMENTS PRIOR TO INITIATION OF ANY WORK ON THE PROJECT.
2. DETA LS ARE NOTED ON THE PLANS IN TYPICAL LOCATIONS AND SHALL BE REPEATED WHERE SIMILAR CONDITIONS EXIST. SEE TYPICAL DETAILS AND GENERAL NOTES.
3. SEE SHEETS S-4 0, S-5 0, & S-5.1 FOR STRUCTURAL NOTES & DETAILS.
4. SEE DESIGN PLANS FOR D MENSIONS. DO NOT SCALE STRUCTURAL DRAWINGS.
5. SEE SHEET A-4 0 FOR COMPONENT SCHEDULE OR BEAM SCHEDULE FOR COMPONENT DESCR PTION

SHEET TITLE: ROOF FRAMING PLAN
PLAN NO.: M06-445-C-HL
SHEET NO.: S-3.0

WHISPER CREEK LOG HOMES
355- 2nd Avenue East
PO Box 2760
Cardston, Alberta,
Canada T0K 0K0
ph. 403-653-1140
fx. 403-653-1086
engineering@wclh com

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THESE DESIGNS AND DETAILS ARE BASED ON MANY YEARS OF CONSTRUCTION, DESIGN, AND ENGINEERING PRACTICE IN NUMEROUS DIVERSE JURISDICTIONS. THE PURPOSE IS TO PROVIDE A BASIS FOR THE DESIGNS INCORPORATED IN WHISPER CREEK LOG HOMES (WCLH). HOWEVER, IT IS THE RESPONSIBILITY OF THE OWNER TO CONSULT WITH ARCHITECT OR ENGNEER OF RECORD (E.O.R.) TO REVIEW AND VERIFY ANY AND ALL OF THE ASSUMPTIONS MADE AND DESIGNS PRESENTED. WCLH MAKES NO WARANTY OR GUARANTEE AS TO THE FINAL SITE SPECIFIC APPLICABILITY OF THE DESIGN. ANY AND ALL PROPOSED CHANGES BY THE E.O.R. SHALL BE COORDINATED WITH WCLH. ALL CHANGES MUST BE APPROVED IN WRITING BY WCLH. IF APPROVED, ALL CHANGES WILL RESULT IN ADDITIONAL COSTS AND MAY REQUIRE MODIFICATIONS TO THE PLANS AND WALLS.

ARCHITECT ENGINEER OF RECORD:

REV SIGNS:

No.	By:	Date:	

PROJECT NAME: HEARTLAND 3

OWNER: TREE HUGGER HOMES

ADDRESS: 2604 YELLOWHEAD TRAIL NE EDMONTON, AB T6S 1C2 CANADA

DRAWING TITLE: ROOF FRAMING PLAN

PROJECT NO.: 07-030	FILE PATH: Z:\Projects\2007 Projects 07-001 thru 07-050\07-030 HLS Tree Hugger Homes M06- S C HL\07-030 HLS Tree Hugger Homes M06- S-C-HL.rvt
PLAN NO.: M06-445-C-HL	DRAWN BY: DCA
	CHECKED BY: ABM & KCM
	DATE: 9 JAN 2007
	SHEET NO.: S-3.0

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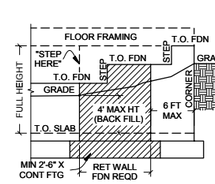
FOUNDATION SCHEDULE

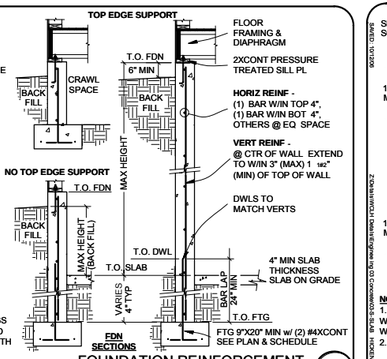
FOUNDATION WALL			REINF STEEL	
MAX HEIGHT		THICK	VERT	HORIZ
≤4'	NO TOP EDGE SUPPORT	8" MIN	#4 @ 16"	#4 @ 12"
4'-6'		8" MIN	#4 @ 8"	#4 @ 12"
>6'		MIN FTG 2'-0" CONT		
≤8' TYP		SEE RETAINING WALL DTLS		
9' / 10'	2 EDGE SUPPORTED	8" MIN	#4 @ 16"	#4 @ 12"
		10"	#5 @ 12"	#4 @ 10"
11'		8" MIN	#4 @ 6"	#4 @ 12"
		9" / 10"	#5 @ 12"	#4 @ 10"
12'		10" MIN	#5 @ 9"	#4 @ 10"
>12'	SEE REINFORCEMENT SCHEDULE SHEET S-1.0	SEE DEEP FDN DETAILS		

REINF FREE STANDING FDN (NO BACKFILL EITHER SIDE) & FDN EQUALLY BACKFILLED EA SIDE SAME AS 8' TYP MAX HT FDN

NOTES: 1. BASED ON 3,000 PSI CONC AND 60,000 PSI REINF.
2. SILL PL SHALL BE FASTENED W/ A.B. AS INDICATED IN PLAN & SHEAR WALL SCHED. ⅝"□ MIN @ 32" O.C. MAX W/ 7" MIN EMBED & 3x16"X2"X0'-2" PL WASHERS.
3. **RETAINING WALL** TYPE FTG & FDN MUST BE INSTALLED WHERE TOP OF FDN IS NOT SUPPORTED W/ FLR OR ROOF DIAPHRAGM. RETAINING WALL FDNS REQUIRE WIDER FTGS, ADDL REINF & SPECIAL PLACEMENT OF REINF & DWLS. RECOMMEND THAT FDN WALL MAINTAINS FULL HT UNTIL MAX HT OF BACK FILL ≤ 4 FT. SEE RETAINING WALL DETAILS.



FOUNDATION ELEVATION



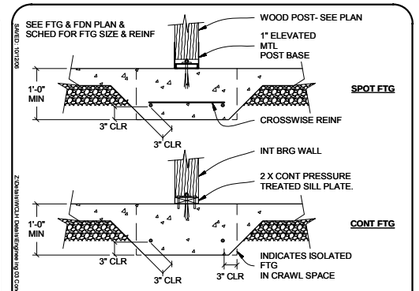
NOTE: B.O. ALL FTGS SHALL BE FOUNDED BELOW FROST DEPTH

NOTES APPLICABLE TO ALL SECTIONS

FOUNDATION REINFORCEMENT 1

NO SCALE

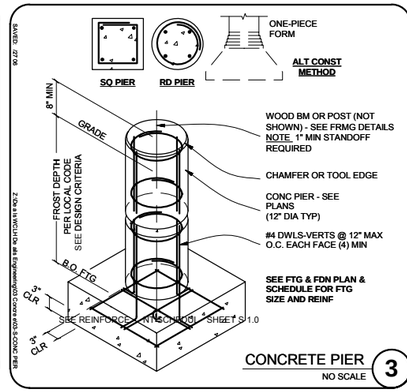
THIS DETAIL FOR RESIDENTIAL CONSTRUCT ON ONLY



NOTE:
1. SILL PLATE SHALL BE FASTENED 4" MIN FROM EACH END & 48" O.C. MAX W/ 1/2" DIA A.B. - ALTERNATE- USE POWDER ACTIVATED FASTENERS @ 16" O.C. W/ MIN 1" PENETRATION OR EXP BOLTS W/ 8" MIN EMBED.
2. FOR INT SHEAR WALLS SEE SHEAR WALL SCHED FOR ANCHOR BOLT SPACING.

THICKENED SLAB 2

NO SCALE



CONCRETE PIER 3

NO SCALE

STRUCTURAL NOTES"

GENERAL

1. VISITS TO THE JOB SITE BY REPRESENTATIVES OF WCLH OR E.O.R. DO NOT CONSTITUTE APPROVAL OF THE WORK PERFORMED.
2. THE CONTRACTOR, SUBCONTRACTORS, AND OWNER AS PART OF THE PROJECT TEAM, SHALL REVIEW AND BE RESPONSIBLE FOR INFORMATION CONTAINED IN ALL PROJECT DOCUMENTS PRIOR TO INITIATION OF ANY WORK ON THE PROJECT.
3. CONTRACTOR SHALL NOTIFY WCLH & E.O.R. OF ANY DISCREPANCIES, OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN ALL CASES, UNLESS OTHERWISE DIRECTED, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN AND BE PERFORMED. DO NOT SCALE DRAWINGS.
4. CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND ELEVATIONS, ETC., AT THE SITE AND SHALL COORDINATE WORK PERFORMED BY ALL TRADES.
5. CONTRACTOR IS RESPONSIBLE FOR METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO BRACING OR SHORING FOR ALL LOADS WHICH THE STRUCTURE MAY BE SUBJECTED TO INCLUDING CONSTRUCTION EQUIPMENT, WIND, ETC. SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY, OR UNTIL ALL THE STRUCTURAL ELEMENTS ARE COMPLETE.
6. CONTRACTOR & ALL SUBS SHALL PERFORM THEIR TRADES & DUTIES IN A MANNER CONFORMING TO THE PROCEDURES & REQUIREMENTS AS STATED IN THE LATEST ACCEPTED CODE(S) ADOPTED BY THE STATE & LOCAL JURISDICTIONS.
7. ANY SPECIAL INSPECTION REQUIRED BY THE BUILDING OFFICIAL OR THE BUILDING CODE(S) IS THE RESPONSIBILITY OF THE OWNER.

FOOTINGS, FOUNDATIONS, SLABS ON GRADE

SOILS REPORTS / GEOTECHNICAL INVESTIGATIONS TAKE PRECEDENCE OVER THESE NOTES.

1. ALL FTGS ARE BASED ON AN ALLOWABLE SOIL BEARING PRESSURE INDICATED IN DESIGN CRITERIA. ANY SOIL COND. ENCOUNTERED DURING EXCAVATION THAT IS CONTRARY TO THOSE USED FOR DESIGN OF FOOTINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING.
2. ALL FTGS SHALL BEAR ON AND 12" MIN INTO UNDISTURBED NATIVE SOIL OR ENGINEERED GRANULAR FILL COMPACTED TO 95% OF MAX. DENSITY, BASED ON ASTM D1557 METHOD OF COMPACTION. FILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 8" IN DEPTH AFTER COMPACTION AND SHALL EXTEND DOWN TO IN-SITU COHESIVE SOILS. FILL SHALL BE COMPACTED UNDER ALL CONCRETE WORK ON THE SITE. FILL BELOW FOOTINGS SHALL EXTEND BEYOND THE FOOTING EDGE AT LEAST THE DEPTH OF THE FILL.
3. NO FOOTINGS SHALL BE PLACED IN WATER OR ON FROZEN GROUND. CONTRACTOR SHALL NOTIFY ENGINEER IN CASE HIGH GROUND WATER LEVEL ARE FOUND WITHIN FIVE FEET BELOW THE FINISHED GRADES.
4. ALL EXCAVATIONS ADJACENT TO AND BELOW FOOTING ELEVATION FOR OTHER TRADES SHALL BE ACCOMPLISHED PRIOR TO POURING ANY FOOTINGS.
5. ALL OPEN EXCAVATIONS AND TRENCHES SHALL BE SUPPORTED AND BARRICADED BY CONTRACTOR TO CONFORM WITH OSHA SAFETY STANDARDS.
6. STABILITY OF SLOPED SITES SHALL BE VERIFIED BY A SOILS ENGINEER OR OTHER QUALIFIED GEOTECHNICAL PROFESSIONAL. ON SLOPES STEEPER THAN ONE UNIT VERTICAL IN THREE UNITS HORIZONTAL, CONTRACTOR SHALL ENSURE THAT BUILDING PLACEMENT CONFORMS TO IBC SECTION 1805.3, GEOTECHNICAL INVESTIGATION RECOMMENDED AND MAY BE REQUIRED WHERE SLOPES ARE STEEPER THAN ONE UNIT VERTICAL IN ONE UNIT HORIZONTAL.
7. ISOLATED FOOTINGS ON GRANULAR SOIL SHALL BE SO LOCATED THAT THE LINE DRAWN BETWEEN THE LOWER EDGES OF ADJOINING FOOTINGS SHALL NOT HAVE A SLOPE STEEPER THAN 30° WITH THE HORIZONTAL.
8. A GEOTECHNICAL ENGINEER EXPERIENCED IN SEISMIC ISSUES SHALL OBSERVE THE EXCAVATION PRIOR TO THE PLACEMENT OF THE FOOTING FORMS FOR ALL LOTS LOCATED WITHIN FAULT HAZARD STUDY ZONES.
9. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESS POOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND THE ENGINEER SHALL BE NOTIFIED.

CONCRETE

1. EXTERIOR FLAT WORK CURBS GUTTERS ETC.
   3,000 PSI @ 28 DAYS (MIN) 4,000 PSI RECOMMENDED
   MIN CEMENT 575 LBS / CU YD
2. FOOTINGS FOUNDATIONS INTERIOR SLABS
   2500 PSI @ 28 DAYS (MIN) 3,000 PSI RECOMMENDED
   MIN CEMENT 504 LBS / CU YD

5% AIR ENTRAINMENT IN SLABS AND WALLS
WATER / CEMENT RATIO ≤ 0.50 RECOMMENDED SLUMP ≤ 4"
3. ALL CONC WORK SHALL BE PLACED, CURED, STRIPPED, & PROTECTED AS DIRECTED BY THE SPECIFICATIONS AND ACI STANDARDS & PRACTICES. DO A GOOD JOB.
4. BEFORE CONCRETE IS POURED CHECK WITH ALL TRADES TO INSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, ETC.
5. CONTRACTOR IS RESPONSIBLE FOR DESIGN AND INSTALLATION OF ALL SHORING AND FORM WORK
6. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR EMBEDS, MOLDS, GROOVES, ORNAMENT, CLIPS OR GROUNDS, REQUIRED TO BE ENCASED IN CONCRETE AND FLOOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.
7. IN HOT WEATHER, FOLLOW "RECOMMENDED PRACTICES FOR HOT WEATHER CONCRETING", ACI 305. IN COLD WEATHER, FOLLOW "RECOMMENDED PRACTICES FOR COLD WEATHER CONCRETING", ACI 306. CONCRETE SHALL BE PROTECTED FROM FREEZING DURING DEPOSITION AND FOR NOT LESS THAN 5 DAYS.

CONCRETE REINFORCING

1. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI DETAILING MANUAL AND ACI STANDARD.
2. ALL REINF SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE.
3. ALL METAL REINFORCEMENT SHALL BE DEFORMED TYPE BARS (EXCEPT #2 BARS) AND SHALL CONFORM TO THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS A.S.T.M. A615 GRADE 40 OR GRADE 60.
4. REINFORCEMENT SHALL BE FREE FROM MUD, OIL, OR OTHER NONMETALLIC COATINGS THAT ADVERSELY AFFECT BONDING CAPACITY.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHALL BE ASTM A-992 (EXCEPT FOR TUBE COLUMNS WHICH SHALL BE ASTM A-500-B, Fy 46 KSI) AND SHALL COMPLY WITH THE "STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" OF THE A.I.S.C. AND WITH THE A.I.S.C. CODE OF STANDARD PRACTICE.
2. ALL BOLTS FOR STEEL TO STEEL, SHALL BE A325, TIGHTEN TO SPECIFIED TORQUE AS PER AISC REQUIREMENTS. BOLTS FOR CONCRETE AND STEEL TO WOOD, SHALL BE ASTM A307, U.N.O.
3. WELDED REBAR OR BOLTS WILL NOT BE ACCEPTED IN LIEU OF WELDED STUD ANCHORS AND DEFORMED BARS. WELDED STUD ANCHORS AND DEFORMED BARS SHALL BE APPLIED USING MANUFACTURER APPROVED WELDING PROCEDURES.
4. ALL WELDING SHALL CONFORM TO AWS D1.1-85 REQUIREMENTS AND SHALL BE MADE WITH E70XX ELECTRODES BY WELDERS CERTIFIED FOR THE WELD TO BE DONE. CERTIFICATION SHALL BE CURRENT WITHIN THE PAST TWELVE MONTHS.
5. ALL BEARING PLATES FOR BMS AND COLUMNS RESTING ON MASONRY OR CONC SHALL BE UNDERLAIN FULLY WITH A HIGH COMPRESSION, NON-SHRINK GROUT.
8. PRIOR TO FABRICATION AND ERECTION, SHOP DRAWINGS FOR ALL STL ITEMS SHALL BE REVIEWED BY THE DESIGN ENGINEER. ALL STL SHALL BE PRIMED / PAINTED IN THE SHOP. ALL STL THAT MAY BE EXPOSED TO EXT. SHALL BE SHOP PAINTED TO INHIBIT RUST. WELD AREAS SHALL BE TOUCHED UP IN THE FIELD.
9. SPECIAL INSPECTIONS AND TESTING OF WELDS AS REQUIRED BY THE LATEST ADOPTED BUILDING CODE(S) SHALL BE PROVIDED BY THE OWNER. COPIES OF ALL INSPECTION REPORTS SHALL BE FORWARDED TO THE DESIGN ENGINEER.
10. U.N.O. ON SPEC. DTLS HIGH-STRENGTH BOLTS ARE REQD TO BE TIGHTENED ONLY TO THE SNUG-TIGHT CONDITION, THE SPECIAL INSPECTOR NEED ONLY VERIFY THAT THE CONNECTED MATERIALS HAVE BEEN DRAWN TOGETHER AND PROPERLY SNUGGED.

PRESSURE TREATED LUMBER

CORROSIVE PRESERVATIVES FOR PRESSURE-TREATED (PT) WOOD ARE BECOMING COMMONPLACE FOR RESIDENTIAL USE. CORROSION-RESISTANT FASTENERS ARE REQD TO FASTEN PT SILL PLATES TO FDN, STUDS & SHEAR-WALL SHTG TO SILL PLATES AND OTHER STRUCTURAL CONNECTIONS. G185 OR STAINLESS STEEL FASTENERS SHALL BE USED WITH ACQ PT WOOD. BARRIER MEMBRANES ARE SUGGESTED FOR USE WITH METAL HARDWARE. VERIFY REQUIREMENTS OF FASTENERS / MEMBRANES WITH YOUR SUPPLIER. VISIT WWW.STRONGTIE.COM/INFO FOR MORE INFO.

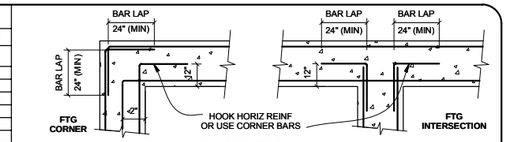
NOTE ALL DETA LS MAY NOT BE APPLICABLE TO THIS PROJECT
BEST PRACTICES - MAY NOT BE REQD

CONC PROTECTION FOR REINF

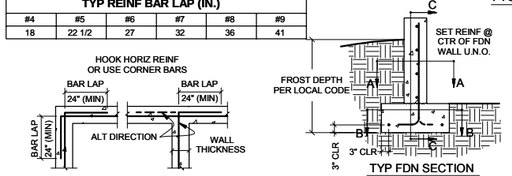
MINIMUM COVER		(IN.)
CONC CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH		3
CONC EXPOSED TO EARTH OR WEATHER	#6 THRU #18 BARS	2
	#5 BAR & SMALLER	1-1/2
CONC NOT EXPOSED TO WEATHER OR IN CONTACT W/ GROUND		
SLABS, WALLS & JOISTS	#11 BAR & SMALLER	3/4
BEAMS, COLUMNS, PILASTERS	PRIMARY REINF & TIES	1-1/2
NOTE: INCREASE COVER IN CORROSIVE SOILS		

TYP REINF BAR LAP (IN.)

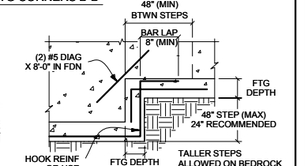
#4	#5	#6	#7	#8	#9
18	22 1/2	27	32	36	41



FTG CORNERS B-B



FDN CORNERS A-A



STEP N FTG / FDN C-C

NOTES:
1. CONCRETE FOOTINGS ARE PERMITTED TO BE CAST AGAINST EARTH WHERE SOIL CONDITIONS DO NOT REQUIRE FORMING
2. THE TOP SURFACE OF FTGS SHALL BE LEVEL. THE BOTTOM SURFACE OF FOOTINGS IS PERMITTED TO HAVE A SLOPE NOT EXCEEDING 1 10.

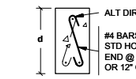
FOOTING & FOUNDATION 4

NO SCALE

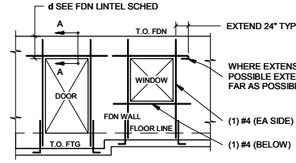
THIS DETAIL FOR RESIDENTIAL CONSTRUCTION ONLY

FDN L NTEL SCHED

REINF	SPAN	d MIN
(2) #4	≤ 4'-0"	8"
(2) #4	≤ 4'-1" TO 6'-0"	12"
(2) #5	6'-1" TO 9'-0"	12"
(2) #5 T&B	9'-1" TO 10'-0"	16"



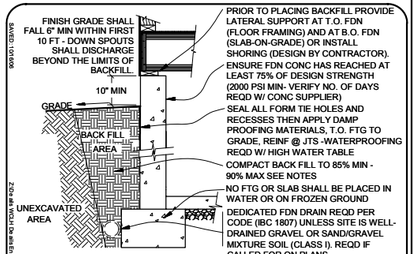
LINTEL SECTION A A



TYP FDN WALL ELEV

FOUNDATION OPENING REINF 5

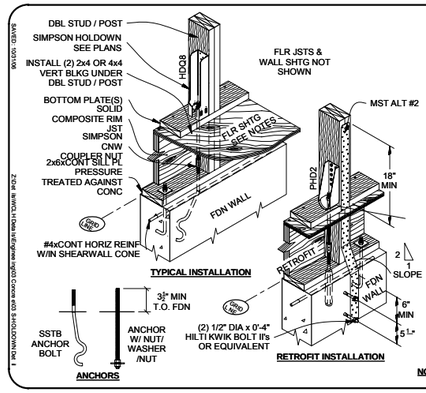
NO SCALE

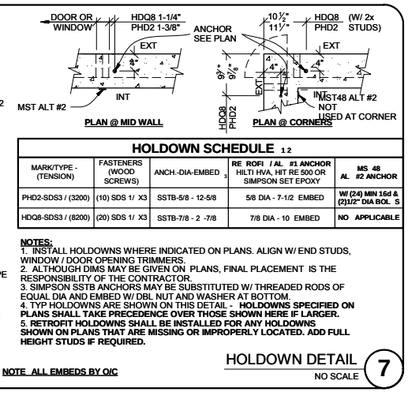


NOTES:
1. USE ONLY LIGHT MANUALLY PROPELLED COMPACTORS WITHIN 5' OF FOUNDATION.
2. INSTALL DAMP PROOFING (MIN 6 MIL POLYETHYLENE W/ 6" MIN JOINT LAPS) BETWEEN SLAB-ON- GRADE. & BASE COURSE.
3. BACK FILL SHALL NOT BE FROZEN, SUBMERGED OR SATURATED IN GROUND WATER.
4. NOTIFY ENGINEER IF EXPANSIVE OR COLLAPSING SENSITIVE SOILS ARE FOUND.
5. WCLH DOES NOT WARRANTY COMPONENTS INSTALLED LESS THAN 24" FROM THE GROUND.

FOUNDATION BACK FILL 6

THIS DETAIL FOR RESIDENTIAL CONSTRUCTION ONLY





HOLDOWN SCHEDULE 1 2

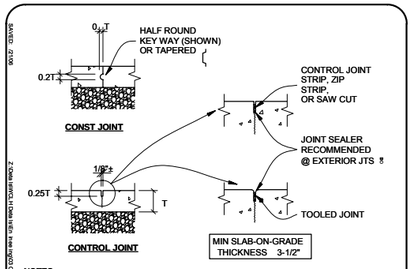
MARK/TYPE - (TENSION)	FASTENERS (WOOD SCREWS)	ANCH.-DIA-EMBED 3	RE ROFI / AL #1 ANCHOR HILTI HVA, HIT RE 500 OR SIMPSON SET EPOXY	MS 48 AL #2 ANCHOR
PHD2-SDS3 / (3200)	(10) SDS 1/ X3	SSTB-5/8 - 12-5/8	5/8 DIA - 7-1/2 EMBED	W (24) MIN 16d & (2)1/2" DIA BOL S
HDQ8-SDS3 / (8200)	(20) SDS 1/ X3	SSTB-7/8 - 2 -7/8	7/8 DIA - 10 EMBED	NO APPLICABLE

NOTES:
1. INSTALL HOLDOWNS WHERE INDICATED ON PLANS. ALIGN W/ END STUDS, WINDOW / DOOR OPENING TRIMMERS.
2. ALTHOUGH DIMS MAY BE GIVEN ON PLANS, FINAL PLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.
3. SIMPSON SSTB ANCHORS MAY BE SUBSTITUTED W/ THREADED RODS OF EQUAL DIA AND EMBED W/ DBL NUT AND WASHER AT BOTTOM.
4. TYP HOLDOWNS ARE SHOWN ON THIS DETAIL - **HOLDOWNS SPECIFIED ON PLANS SHALL TAKE PRECEDENCE OVER THOSE SHOWN HERE IF LARGER.**
5. **RETROFIT HOLDOWNS SHALL BE INSTALLED FOR ANY HOLDOWNS SHOWN ON PLANS THAT ARE MISSING OR IMPROPERLY LOCATED. ADD FULL HEIGHT STUDS IF REQUIRED.**

NOTE ALL EMBEDS BY O/C

HOLDOWN DETAIL 7

NO SCALE



NOTES:
1. CONTROL JT SPACING RULE OF THUMB IS 24X SLAB THICKNESS 4" SLAB - 8'-0" MAX O.C. EACH WAY 6" SLAB - 12'-0" MAX O.C. EACH WAY.
2. SAW CUT WITHIN 6-18 HOURS OF POURING CONC - 24 HOURS MAX CONC MUST BE HARD ENOUGH TO PREVENT RAVELING OF JT EDGES OR DISLODGING OF COARSE AGGREGATE.
3. ALL SLABS-ON-GRADE SHALL BE OVER 4" OF -3/4" FREE DRAINING GRANULAR FILL, BEARING ON UNDISTURBED NATIVE SOIL OR ENGINEERED GRANULAR FILL.

CONSTRUCTION / CONTROL JOINT 8

NO SCALE

WHISPER CREEK LOG HOMES
355- 2nd Avenue East
PO Box 2760
Cardston, Alberta,
Canada T0K 0K0
ph. 403-653-1140
fx. 403-653-1086
engineering@wclh.com

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ARCHITECT ENGINEER OF RECORD:

REV SIGNS:			
No.	By:	Date:	

PROJECT NAME:
HEARTLAND 3

OWNER:
TREE HUGGER HOMES

ADDRESS:
2604 YELLOWHEAD TRAIL NE EDMONTON, AB T6S 1C2 CANADA

DRAWING TITLE:
FOOTING & FOUNDATION DETAILS

PROJECT NO.: 07-030
FILE PATH: Z:\Projects\2007 Projects 07-001 thru 07-100\07-030 HL3 Tree Hugger Homes M06- S C HL\07-030 HL3 Tree Hugger Homes M06- S C-HL.rvt
DRAWN BY: DCA
CHECKED BY: ABM & KCM
DATE: 9 JAN 2007
SHEET NO.: **S-4.0**
PLAN NO.: **M06-445-C-HL**

SHEET TITLE: FOOTING & FOUNDATION DETAILS
PLAN NO.: M06-445-C-HL
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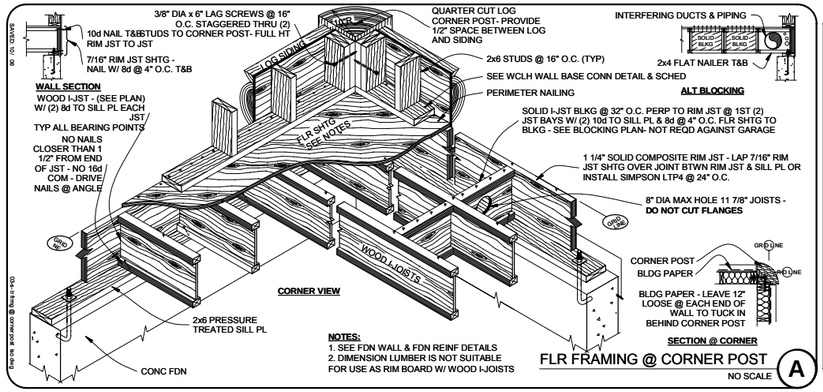
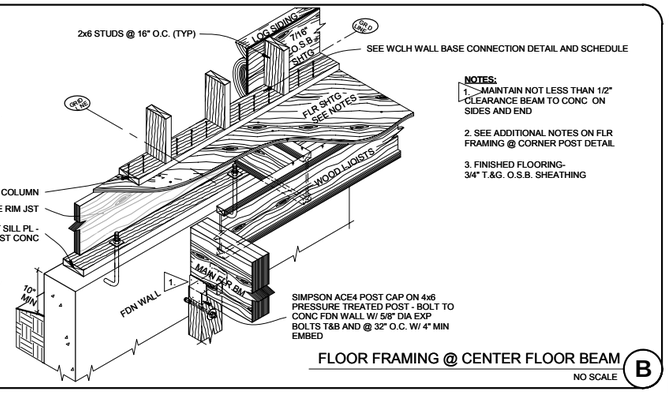


FLR FRAMING @ CORNER POST — A

NO SCALE



FLOOR FRAMING @ CENTER FLOOR BEAM — B

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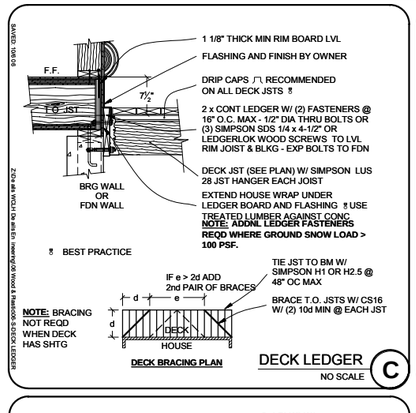

DECK LEDGER — C

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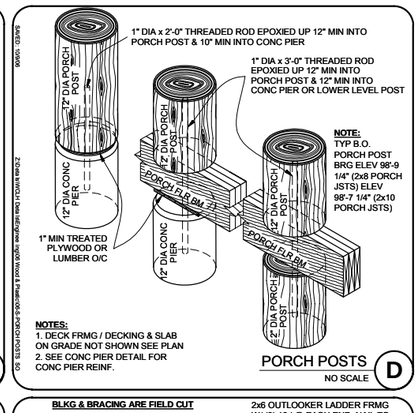

PORCH POSTS — D

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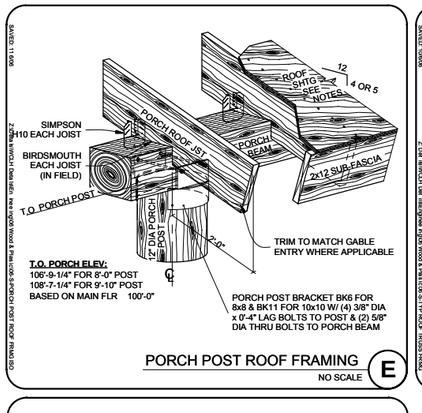

PORCH POST ROOF FRAMING — E

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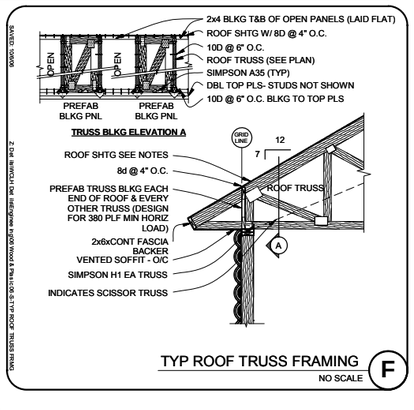
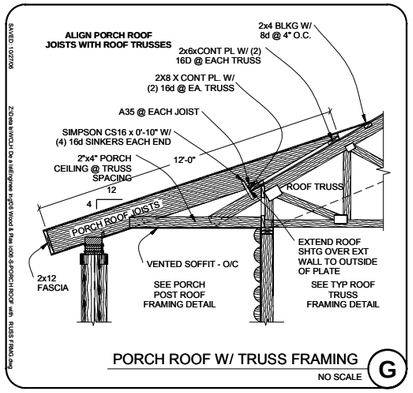


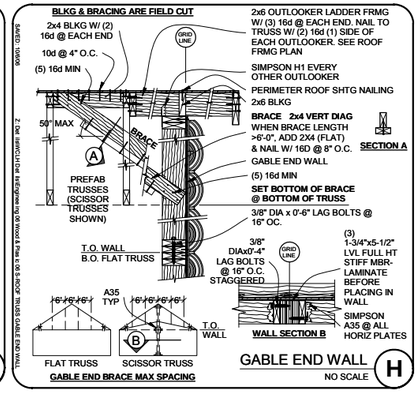
TYP ROOF TRUSS FRAMING — F

NO SCALE



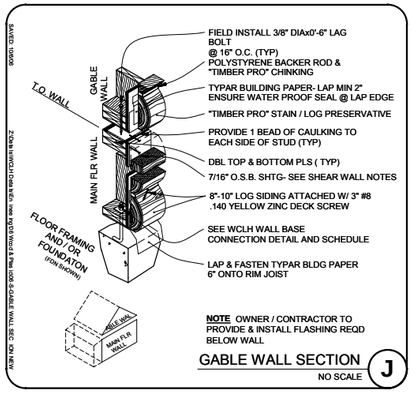
PORCH ROOF W/ TRUSS FRAMING — G

NO SCALE



GABLE END WALL — H

NO SCALE



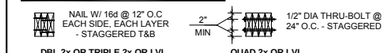
GABLE WALL SECTION — J

NO SCALE

LUMBER

1. MEMBER GRADES SHALL BE AS FOLLOWS;
   GLU-LAM BEAMS (Simple Span) ..... 24F-V4 DF/DF
   JOISTS & HEADERS ..... SPF #2 BTR
   POST ..... SPF #1 BTR
   STUDS BEARING WALLS ..... SPF #2 BTR
   LVL's ..... 2.0E DF LVL Fb 2,900 PSI
   SILL PLS IN CONTACT W/CONC ..... DOUG FIR #2 BTR
   (PRESSURE TREATED FOR MOISTURE PROTECTION)
2. STUD WALLS SHALL RUN CONTINUOUS BETWEEN POINTS OF HORIZONTAL SUPPORT. PROVIDE BRACING WHERE OTHERWISE.
3. SOLID 2 IN. NOMINAL BLOCKING SHALL BE PROVIDED AT ENDS OR POINTS OF SUPPORT OF ALL WOOD JOISTS AND TRUSSES. CROSS BRIDGING OF NOT LESS THAN 1 IN. X 3 IN. MATERIAL SHALL BE PLACED IN ROWS BETWEEN SUPPORT POINTS, NOT TO EXCEED 8 FT APART, FOR SPANS OF 14 FT AND GREATER. INSTALL CROSS BRIDGING FOR WOOD-I JOISTS AS PER MFGR.
4. MIN NAILING SHALL BE AS PER LATEST ADOPTED BUILDING CODE.
5. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED LUMBER OR FOUNDATION REDWOOD. SEE PRESSURE TREATED LUMBER NOTES.
6. ALL WOOD SUPPORT MEMBERS EXPOSED TO WEATHER SHALL BE TREATED OR PROTECTED TO PREVENT MOISTURE OR WATER ACCUMULATION ON THE SURFACE.
7. ENDS OF UNTREATED WOOD BEAMS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS SHALL HAVE A CLEARANCE OF NOT LESS THAN 0.5 INCH ON TOP, SIDES AND ENDS.
8. FASTENERS SUCH AS STAPLES, CAN ONLY BE SUBSTITUTED FOR NAILS AT A RATE EQUAL TO LOAD VALUES PROVIDED BY I.C.B.O. APPROVAL.
9. BOLT HOLES SHALL BE 1/16" MAX LARGER THAN THE BOLT SIZE. RETIGHTEN ALL NUTS PRIOR TO CLOSING IN.

MULTI-MEMBER BEAMS



SHEAR WALL NOTES

1. ALL EXTERIOR FACTORY WALLS ARE SHEATHED AND NAILER PER SCHEDULE BELOW. ALL FIELD BUILT EXTERIOR WALLS, INTERIOR WALLS INDICATED ON THE PLANS, AND VERTICAL SURFACES AT STEPS IN ROOF SHALL BE SHEATHED WITH APA RATED 24/0 (OR BTR) CDX STRUCTURAL II PANEL SIDING. NAILING SHALL BE AS INDICATED IN SHEAR WALL SCHEDULE.
2. BLOCK ALL HORIZONTAL PANEL EDGES WITH 2 IN. NOMINAL OR WIDER FRAMING. FRAMING AT ADJOINING PANEL EDGES SHALL BE 3-INCH NOMINAL OR WIDER AND NAILS SHALL BE STAGGERED WHERE NAILS ARE SPACED 3 INCHES OR LESS O.C.
3. ALL SHEATHING SHALL EXTEND CONTINUOUS FROM SILL PLATE TO ROOF OR FLOOR SHEATHING. SEE NOTE 2 ABOVE.
4. SHEATHING SHALL EXTEND CONTINUOUS FROM FLOOR FRAMING TO HIGH ROOF FRAMING ON UPPER LEVEL EXTERIOR WALLS ABOVE A LOW ROOF.
5. NAILS SHALL BE SPACED NOT LESS THAN 3/8 IN. FROM EDGES AND ENDS OF SHEATHING AND SHALL BE DRIVEN FLUSH BUT SHALL NOT FRACTURE THE SURFACE OF THE SHEATHING. CAP ALL SHEATHING 1/8" AT PANEL EDGES.
6. ANCHOR BOLTS FOR ALL SHEAR WALLS SHALL BE SIZED AND SPACED AS INDICATED IN SCHEDULE WITH 7 IN. MIN EMBED. PLATE WASHERS A MINIMUM OF 2 INCHES BY 2 INCHES BY 3/16 INCH THICK SHALL BE INSTALLED WHEN LOCATED IN SEISMIC DESIGN CATEGORY D,E, & F (ZONE 3 & 4).
7. SEE SHEAR WALL SCHEDULE WITH FRAMING PLAN WHEN FIELD APPLIED SHEAR WALLS ARE REQ D

FACTORY WALL SCHEDULE (SHTG INSTALLED BY WCLH)

MARK	7/16 APA RATED STRUCTURAL SHEATHING	NAILING 8d EDGES	NAILING 8d FIELD	ANCHOR BOLTS 5/8" ø X10" MIN	SOLE PLATE TO RIM JST	NOTES
FW 1 350 PLF	SHOP BUILT WALLS EXTERIOR SIDE	3 1/8" O.C.	12" O.C. (MAX)	32" O.C. (MAX)	3/8" ø x 0'-6" LAG BOLTS @ 16" O.C	1, 2
FW 2 500 PLF		2" O.C.				

1. SEE WCLH WALL BASE CONNECTION DETAIL, SHEET S-2.0.
2. INSTALL 3x6 STUDS OR (2) 2x6 STUDS @ ADJOINING PANELS (2) 2x6 STUDS TO BE FACE NAILED W/ 10d EACH FACE @ 3" O.C STAGGERED.

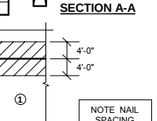
FLOOR SHEATHING

1. FLOOR SHEATHING SHALL BE 3/4 IN., T&G APA RATED 48/24 EXPOSURE I SHEATHING NAILED WITH 10d NAILS AT 6 IN. O.C. AT ALL PANEL ENDS, SUPPORTED EDGES, TOP OF SHEAR WALLS (ALL EXTERIOR WALLS ARE SHEAR WALLS) AND ALL BLOCKING; 10d AT 12 IN. O.C. ALONG INTERMEDIATE FRAMING MEMBERS. NAILING SHALL BE SPACED AT 3/8 IN. MIN FROM EDGE OF PANEL.
2. LAY SHEATHING WITH FACE GRAIN AT RIGHT ANGLES TO FRMG W/ END JOINTS STAGGERED (SEE TYP DETAILS).
3. BLOCK JOISTS SOLID AT ALL BEARING POINTS.

ROOF SHEATHING

ROOF PANEL SHEATHING NAILING SCHEDULE

WIND SPEED	PANEL LOCATION	ROOF FASTENING ZONE 1	ZONE 2	ZONE 3
>110 MPH	EDGES	6 O.C.	6 O.C.	O.C.
	FIELD	6 O.C.	6 O.C.	6 O.C.
TYP U.N.O.	EDGES	6 O.C.	6 O.C.	O.C.
	FIELD	12 O.C.	6 O.C.	6 O.C.

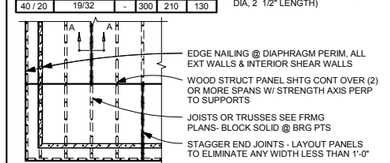


SECTION A-A

KEY PLAN VIEW

ALLOWABLE MAX SNOW LOAD PSF					
SPAN RATING	PANEL THICKNESS	SPACING IN. O.C. 12"	16"	19.2"	24"
40 / 20	19/32	-	300	210	130

NOTES:
1. ALL SHTG APA STRUCT I RATED EXP 1
2. NAIL W/ 8d COMMON NAILS (.131" DIA, 2 1/2" LENGTH)



LAYOUT PLAN

NOTE ALL DETA LS MAY NOT BE APPLICABLE TO THIS PROJECT
‼ BEST PRACTICES - MAY NOT BE REQD

SHEET TITLE: FRAMING DETAILS
PLAN NO.: M06-445-C-HL
SHEET NO.: S-5.0

WHISPER CREEK LOG HOMES
355- 2nd Avenue East
PO Box 2760
Cardston, Alberta,
Canada T0K 0K0
ph. 403-653-1140
fx. 403-653-1086
engineering@wclh.com

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ARCHITECT ENGINEER OF RECORD:

REV SIGNS:

No.	By:	Date:	

PROJECT NAME: HEARTLAND 3

OWNER: TREE HUGGER HOMES

ADDRESS: 2604 YELLOWHEAD TRAIL NE EDMONTON, AB T6S 1C2 CANADA

DRAWING TITLE: FRAMING DETAILS

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