THIS BUILDING IS CLASSIFIED AS PART 9 "HOUSING AND SMALL BUILDING"

THE DESIGN OF THIS BUILDING IS IN ACCORDANCE WITH

- 2011 MANITOBA BUILDING CODE
- 9.4 "STRUCTURAL REQUIREMENTS"
- 9.4.1.1. "GENERAL" 9.4.1.1.1) a) b) AND c)

DO NOT SCALE DRAWINGS, ALL DIMENSIONS MUST BE VERIFIED PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGNER

HAVE BEEN USED IN THE DESIGN OF THIS STRUCTURE. DESIGN LOADS AND ASSUMPTIONS AS PER THE 2011 MANITOBA BUILDING CODE AND TABLE 1 "DESIGN ASSUMPTIONS" OF THE SPAN BOOK-2004 EDITION.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL PLANS PREPARED BY OTHERS ANY INFORMATION MISSING ON THIS DRAWING MUST BE OBTAINED FROM SAID ARCHITECTURAL PLANS. COORDINATE AND ERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCING CONSTRUCTION

SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS, SLOPES, ROUGH OPENING DIMENSIONS FOR WINDOWS, DOORS,

SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS IN FLOORS. ROOF, WALLS. ETC.

DO NOT CUT OR DRILL OPENINGS IN ANY STRUCTURAL MEMBERS WITHOUT WRITTEN APPROVAL FROM BEACH

TRUCTURAL DRAWINGS SHOW THE COMPLETED STRUCTURE. THEY DO NOT SHOW COMPONENTS WHICH MAY BE NECESSARY FOR SAFETY DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE SAFETY AND TO ENSURE THAT ALL SUBTRADES CONFORM TO THE LATEST REGULATIONS OF THE PROVINCIAL BUILDING PROTECTION ACT", TO PROVIDE ALL NECESSARY SAFETY EQUIPMENT AS REQUIRED THEREIN AND TO NOTIFY LOCAL AUTHORITIES AS REQUIRED BY LAW. THE GENERAL CONTRACTOR SHALL DESIGN ALL SHORING, FORM WORK, AND BRACING TO ENSURE PROPER CONSTRUCTION AND ERECTION.

THE CONTRACTOR SHALL CONFORM TO THE COLD WEATHER REQUIREMENTS OF THE CSA STANDARD A23.1/A23.2 AND THE NATIONAL BUILDING CODE.

IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO LOCATE ALL SITE SERVICES PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL VISIT THE SITE, AND NOTE ALL CHARACTERISTICS AND IRREGULARITIES AFFECTING THE WORK OF THIS PROJECT.

FOUNDATION NOTES

ALL STRAIGHT SHAFT CONCRETE PILES ARE DESIGNED AS CAST-IN-PLACE FRICTION ELEMENTS IN FIRM UNDISTURBED MATERIAL WITH AN ALLOWABLE FRICTION CAPACITY OF 300 PSF. FOOTINGS SHALL BE FOUNDED ON FIRM DRY UNDISTURBED SOIL (EXCLUDING SILT) CAPABLE OF PROVIDING AN ALLOWABLE BEARING CAPACITY OF 1500 PSF. ALL BELLED PILES ARE DESIGNED AS END BEARING ELEMENTS FOUNDED ON FIRM DRY UNDISTURBED SOIL (EXCLUDING SILT) CAPABLE OF PROVIDING AN ALLOWABLE BEARING CAPACITY OF 2500 PSF. THE OWNER CONTRACTOR IS RESPONSIBLE FOR VERIFYING THESE ASSUMPTIONS WITH A SOILS INVESTIGATION. BEACH ROCKE ENGINEERING LTD. ACCEPTS NO LIABILITY FOR THESE ASSUMPTIONS OR FOR ANY REDESIGN OF THE FOUNDATION

AS PER A-TABLE 9.4.4.1 OF THE MANITOBA BUILDING CODE "CLASSIFICATION OF SOILS" CLAY AND SILT MAY BE CLASSIFIED AS "STIFF" IF IT IS DIFFICULT TO INDENT BY THUMB PRESSURE, "FIRM" IF IT CAN BE INDENTED BY MODERATE THUMB PRESSURE, "SOFT" IF IT CAN BE EASILY PENETRATED BY THUMB PRESSURE, WHERE THIS TEST CARRIED OUT ON UNDISTURBED SOIL IN THE WALL OF A TEST PIT.

THE FOUNDATION DESIGN IS COMPLIANT WITH LIMITS STATES DESIGN AS DEFINED IN THE 2011 MANITOBA BUILDING POUR JOINTS IN THE FOUNDATION SHALL BE APPROVED BY THE ENGINEER. CODE (PART 9) AND CANADIAN FOUNDATION ENGINEERING MANUAL 4TH EDITION

THE FOUNDATION/BUILDING DESIGN IS COMPLIANT WITH 9.4.4.4. ALL TELEPOSTS SHALL HAVE A MINIMUM 3" ADJUSTABILITY AND BE ISOLATED FROM NON-STRUCTURAL ELEMENTS SUCH AS CONCRETE SLAB-ON-GRADE FLOORS WITH A SLIP JOINT, ALL NON-LOAD BEARING BASEMENT INTERIOR AND EXTERIOR PARTITION WALLS SHALL BE FLOATED 1 1/2" MINIMUM.

ALL SLAB-ON-GRADE FLOORS AND UN-INSULATED SHALLOW FOUNDATIONS WILL EXPERIENCE MOVEMENT AND CRACKING DUE TO HEAVING AND SOILS EXPANSION RESULTING FROM THE NATURE OF THE CLAY SOIL, PREVIOUS AND PRESENT LEVEL OF VEGETATION AT THE SITE, SOIL MOISTURE LEVELS AND CONSTRUCTION PRACTICES. BEACH ROCKE ENGINEERING LTD. ACCEPTS NO LIABILITY FOR THIS CRACKING AND/OR MOVEMENT. THE OWNER/CONTRACTOR SHALL ENSURE THAT ANY CONCRETE SLAB-ON-GRADE FLOOR MOVEMENTS WILL NOT BE RANSFERRED TO ANY OF THE STRUCTURAL ELEMENTS OF THE BUILDING BY CONSTANT MONITORING AFTER CONSTRUCTION IS COMPLETED.

- 1. ALL TELEPOSTS SHALL BE CONTINUOUSLY MONITORED AND ADJUSTED. IF REQUIRED, BY SKILLED PROFESSIONALS EXPERIENCED IN THIS TYPE OF WORK, DURING AND AFTER CONSTRUCTION HAS BEEN
- 2. POSITIVE DRAINAGE AROUND THE EXTERIOR OF THE BUILDING SHALL BE CONTINUOUSLY MAINTAINED DURING AND AFTER CONSTRUCTION IS COMPLETED.
- 3. THE SUMP AND DRAINAGE SYSTEM SHALL BE CONTINUOUSLY MAINTAINED DURING AND AFTER CONSTRUCTION IS $\underline{\mathsf{CAST-IN-PLACE}}$ BELLED PILES COMPLETED. MEASURES SHALL BE TAKEN TO ENSURE THE SUMP DISCHARGE IS CONTINUOUSLY AND PROPERLY THE CONTRACTOR SHALL LOCATE ALL SITE SERVICES PRIOR TO PILING.
- 4. ALL FLOATED NON-LOAD BEARING BASEMENT INTERIOR AND EXTERIOR PARTITION WALLS SHALL BE CONTINUOUSLY MONITORED DURING AND AFTER CONSTRUCTION IS COMPLETED TO ENSURE THAT THE FLOAT IS MAINTAINED

ALL TELEPOST LOADS ARE UNFACTORED (ALLOWABLE) UNLESS SHOWN OTHERWISE.

HE SUMP SHALL HAVE 1/4" DIAMETER HOLES ON A 3"x3" GRID, ONLY ON AREA IN CONTACT WITH GRANULAR DRAINAGE AGGREGATE WITH NO HOLES IN BOTTOM 10" OF SUMP. THE SUMP SHALL BE A MINIMUM OF 36" AWAY FROM ALL CONCRETE FOOTINGS (MEASURED EDGE TO EDGE). THE FINAL LOCATION OF THE SUMP BY

ANY CURRENT OR PRE-EXISTING (WITHIN TWO YEARS PRIOR TO CONSTRUCTION) LARGE VEGETATION SUCH AS TREES AND BUSHES SHALL BE REPORTED TO BEACH ROCKE ENGINEERING LTD. PRIOR TO CONSTRUCTION.

CONCRETE

CONCRETE SHALL BE MANUFACTURED AND PLACED IN ACCORDANCE WITH THE CSA STANDARDS A23.1-09/A23.2-09.

PROVIDE A MINIMUM 150mm (6") VOID UNDER ALL BEAMS, WALLS AND STRUCTURAL SLABS. VOID TO BE SHEARMAT OR APPROVED CARDBOARD VOIDFORM

VIBRATE ALL CONCRETE TO ENSURE COMPLETE CONSOLIDATION.

THE LOCATIONS OF CONSTRUCTION JOINTS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE APPROVED BY BEACH ROCKE ENGINEERING LTD IN WRITING.

WHEN THE OUTSIDE TEMPERATURE FALLS BELOW 5 DEGREES CELSIUS, THE CONTRACTOR SHALL CONFORM TO CSA STANDARD A23.1-09/A23.2-09 AND THE NATIONAL BUILDING CODE FOR COLD WEATHER CONCRETE PROCEDURES, CONCRETE SHALL CONFORM TO THE FOLLOWING:

NAME	CONC. TYPE	STRENGTH .	MAX. AGG.	SLUMP AIR	EXPOSURE
					<u>CLASS</u>
PILES	TYPE 50	32MPa @ 28 DAYS	3/4"	5" 4-7%	S-2
FOOTINGS	TYPE 50	32MPA @ 28 DAYS	3/4"	5" 4-7%	S-2
GRADE BEAMS	TYPE 10	20MPA @ 28 DAYS	3/4"	5" 4-7%	R-2
WALLS	TYPE 10	20MPA @ 28 DAYS	3/4"	5" 4-7%	R-2
ICF WALLS	TYPE 10	20MPA @ 28 DAYS	3/8"	5" 4-7%	R-2
BSMT OR INTERIOR SLABS	TYPE 10	20MPA @ 28 DAYS	3/4"	5" NONE	R-3
GARAGE OR EXTERIOR SLABS	TYPE 10	32MPA @ 28 DAYS	3/4"	5" 5-8%	C-2
DEU : E D D D U : D D D T T T T					

REINFORCING STEEL SHALL BE NEW BILLET DEFORMED BARS MANUFACTURED AND DETAILED IN ACCORDANCE WITH CAN/CSA-G30.18-M92, WITH MINIMUM YIELD STRENGTH OF 400MPA

REINFORCING STEEL SHALL BE FREE FROM LOOSE RUST, MUD, OIL OR OTHER COATINGS WHICH MAY REDUCE THE BOND OR HARM THE CONCRETE.

REINFORCING STEEL SHALL BE HELD IN PLACE AND TIED WITH PROPER ACCESSORIES SUCH AS HI-CHAIRS, SPACERS, TIES, ETC. SUPPLIED BY THE REINFORCING STEEL PROVIDER. APPROPRIATE SUPPORT SHALL BE PROVIDED UNDER ALL SUPPORT ACCESSORIES TO ENSURE THAT THE REINFORCING STEEL IS ACCURATELY POSITIONED.

LAP TOP BARS AT MID-SPAN AND BOTTOM BARS OVER SUPPORTS

BEND ALL HORIZONTAL STEEL 18" AROUND CORNERS, OR USE EXTRA 36"x36" CORNER BARS TO MATCH HORIZONTALS.

PROVIDE 2-15M AROUND ALL SLAB, WALL, & BEAM OPENINGS, UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS.

CONCRETE COVER OVER REINFORCING STEEL SHALL BE AS FOLLOWS (UNLESS NOTED OTHERWISE)

'.1.	CONCRETE CAST IN DIRECT CONTACT WITH SOIL	-3"
.2.	FORMED CONCRETE IN CONTACT WITH SOIL 15M OR SMALLER	-2"

7.2. FORMED CONCRETE IN CONTACT WITH SOIL 15M OR SMALLER 7.3. FORMED CONCRETE IN CONTACT WITH SOIL 20M OR LARGER

7.4. FORMED CONCRETE NOT IN CONTACT WITH SOIL (BEAMS AND COLUMNS) -1 1/2"

7.5. FORMED CONCRETE NOT IN CONTACT WITH SOIL (SLABS AND WALLS)

CONCRETE FOOTINGS

THE CONTRACTOR SHALL LOCATE ALL SITE SERVICES PRIOR TO EXCAVATION

BEARING SURFACES SHALL BE INSPECTED BY A QUALIFIED INSPECTOR TO VERIFY THE ALLOWABLE BEARING CAPACITY AND TO ENSURE ALL LOOSE AND DISTURBED MATERIAL HAS BEEN REMOVED AND REPLACED WITH COMPACTED GRANULAR MATERIAL

CAST-IN-PLACE PILES

THE CONTRACTOR SHALL LOCATE ALL SITE SERVICES PRIOR TO PILING

ALL HOLES SHALL BE DRILLED TO THE DEPTHS AND DIAMETERS SHOWN ON THE DRAWINGS. BEACH ROCKE ENGINEERING LTD. SHALL BE NOTIFIED IMMEDIATELY IF IT IS IMPOSSIBLE TO ATTAIN THE DEPTHS OR DIAMETERS INDICATED. NO CREDITS OR EXTRAS WILL BE CONSIDERED DUE TO ANY REVISION IN SIZE FROM THE SOIL CONDITIONS ENCOUNTERED

ALL PILE HOLES SHALL BE POURED WITHIN AN 8 HOUR TIME PERIOD. NO MORE THAN 6 HOLES SHALL BE LEFT OPEN AT STRUCTURAL STEEL

SLEEVES SHALL BE PLACED THROUGH ANY SOIL THAT MAY SLOUGH DURING CONSTRUCTION OF THE PILE.

CONCRETE SHALL BE PLACED INTO HOLES IN ONE CONTINUOUS POUR IMMEDIATELY AFTER HOLES ARE DRILLED. CONSOLIDATE THE TOP 10 FEET WITH A MECHANICAL VIBRATOR. PROTECT THE TOP OF THE PILE FROM FREEZING WHEN THE TEMPERATURE FALLS BELOW 5 DEGREES CELSIUS. ANY FROZEN CONCRETE WILL BE REJECTED.

PROVIDE FULL LENGTH REINFORCING FOR PILES IN UNHEATED AREAS. PROVIDE A GREASED SONO-TUBE FOR TOP 7'-0" FOR UN-INSULATED EXTERIOR CONCRETE PILES OR PROVIDE A 36" DIAMETER BELL AT THE BOTTOM OF THE PILE LENGTH SPECIFIED ON THE DESIGN DRAWINGS (NOTE: BELL IS TO PROVIDE UPLIFT RESISTANCE ONLY).

CENTER ALL PILES UNDER GRADE BEAMS OR WALLS UNLESS OTHERWISE NOTED

SHALL BE NOTIFIED IMMEDIATELY IF IT IS IMPOSSIBLE TO ATTAIN THE DEPTHS OR DIAMETERS INDICATED.

ALL PILE HOLES SHALL BE POURED WITHIN AN 8 HOUR TIME PERIOD. NO MORE THAN 6 HOLES SHALL BE LEFT OPEN AT

SLEEVES SHALL BE PLACED THROUGH ANY SOIL THAT MAY SLOUGH DURING CONSTRUCTION OF THE PILE

CONCRETE SHALL BE PLACED INTO HOLES IN ONE CONTINUOUS POUR IMMEDIATELY AFTER HOLES ARE DRILLED. CONSOLIDATE SSPC-SP2. THE TOP 10 FEET WITH A MECHANICAL VIBRATOR. PROTECT THE TOP OF THE PILE FROM FREEZING WHEN THE TEMPERATURE FALLS BELOW 5 DEGREES CELSIUS. ANY FROZEN CONCRETE WILL BE REJECTED.

PROVIDE FULL LENGTH REINFORCING FOR PILES IN UNHEATED AREAS

CENTER ALL PILES UNDER GRADE BEAMS OR WALLS UNLESS OTHERWISE NOTED.

THICKENED EDGE SLAB ON GRADE

THE CONTRACTOR SHALL LOCATE ALL SITE SERVICES PRIOR TO EXCAVATION.

THICKENED EDGE SLAB-ON-GRADE FOUNDATIONS SHALL BEAR ON NATIVE UNDISTURBED SOIL WITH AN ALLOWABLE BEARING CAPACITY OF 1500 PSF.

STRIP THE SITE OF ALL ORGANIC MATERIAL TO EXPOSE NATIVE UNDISTURBED SOIL WHERE FOUNDATIONS ARE TO

PROOF ROLL UNDISTURBED SOIL TO IDENTIFY ANY SOFT SPOTS. ALL SOFT SPOTS SHALL BE SUB-CUT AND REMOVED. REPLACE SOFT SPOTS WITH 6" LIFTS OF COMPACTED GRANULAR "C" BASE.

THE COMPACTION OF ALL GRANULAR ("C" BASE MATERIAL) SHALL BE 98% MINIMUM.

THE POUR JOINTS IN THE FOUNDATION SHALL BE APPROVED BY THE ENGINEER

ADDITIONS OR RENOVATIONS

PRIOR TO ADDRESSING THE FRAMING FOR THE STRUCTURAL RENOVATION WORK SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL EXPOSE ALL THE EXISTING STRUCTURAL FRAMING THAT WILL BE AFFECTED AND/OR CHANGED BY THE RENOVATION WORK. THIS STRUCTURAL FRAMING SHALL BE INSPECTED AND REVIEWED BEFORE ANY RENOVATION WORK IS DONE, SO AS TO ENSURE THAT THE PROPOSED STRUCTURAL RENOVATION WORK IS FEASIBLE, OR CHANGES AND/OR ADJUSTMENTS TO THE DRAWINGS ARE REQUIRED, BEACH ROCKE ENGINEERING LTD. WILL ACCEPT NO RESPONSIBILITY AND/OR LIABILITIES IF THIS INSPECTION AND REVIEW IS NOT DONE.

WOOD NOTES

ALL LUMBER COMPONENTS SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE CAN/CSA-086-09.

ALL LUMBER SHALL CONFORM TO "NLGA STANDARD GRADING RULES FOR CANADIAN LUMBER", AND THE GRADE SHALL BE CLEARLY IDENTIFIED ON ALL PRODUCTS.

ALL DIMENSIONAL LUMBER SHALL BE NO.2 GRADE, OR BETTER, UNLESS NOTED OTHERWISE ON DRAWINGS.

FRAMED WALLS AND ROOF SYSTEMS SHALL BE ADEQUATELY BRACED UNTIL CONSTRUCTION IS COMPLETED. THE CONTRACTOR SHALL SUPPLY AND ERECT ALL BRACING NECESSARY TO PROVIDE STABILITY FOR THE STRUCTURE AS A WHOLE, INCLUDING DURING THE CONSTRUCTION PHASE.

SHEATHING AND STRUCTURAL ACCESSORIES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S

FASTENERS USED FOR FRAMING IN LUMBER ABOVE GRADE SHALL BE: HOT-DIPPED AND GALVANIZED.

FASTENERS USED FOR FRAMING IN LUMBER BELOW GRADE SHALL BE STAINLESS STEEL (TYPES 304 AND 316) FOR

LUMBER IN CONTACT WITH SOIL SHALL BE PRESERVATIVE-TREATED IN ACCORDANCE WITH THE CAN/CSA-080 SERIES-08. THE CUT ENDS AND DRILLED HOLES OF TREATED LUMBER SHALL BE TREATED WITH 3 COATS OF

JOINTS AND HOLES BELOW GRADE SHALL BE SEALED WITH BUTYL CAULKING COMPOUND OR EQUAL CONFORMING TO CGSB 19-GP-13 OR CGSB 19-GP-14, INSTALLED TO PROVIDE A WATER-TIGHT SEAL.

ALL STRUCTURAL ENGINEERED WOOD (TIMBERSTRAND, MICROLLAM, PARALLAM, GLUE-LAMINTATED, ETC) PRODUCTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE CAN/CSA-086-09 TO SATISFY LOADING CONDITIONS NOTED ON THE DRAWINGS AND LOCAL BUILDING CODE REQUIREMENTS.

FASTEN EXTERIOR SHEATHING AT 6" O.C. AT EDGES, AND 12" O.C. AT INTERMEDIATE MEMBERS.

ALL LINTELS 5'-0" OR LESS SHALL BE 2-2x10 SPF NO.1/2 C/W 1 CRIPPLE, 1 KING STUDS, UNLESS NOTED.

ALL LINTELS 5'-0" TO 8'-0" SHALL BE 3-2x10 SPF NO.1/2 C/W 2 CRIPPLE, 1 KING STUDS, UNLESS NOTED.

ALL LINTELS 8'-0" TO 10'-0" SHALL BE 3-2x12 SPF NO.1/2 C/W 2 CRIPPLE, 1 KING STUDS, UNLESS NOTED.

PROVIDE METAL HANGERS AT ALL FLUSH BEAM AND JOIST CONNECTIONS

ALL FLOOR JOISTS SHALL HAVE BRIDGING AT 6'-10" MAX O/C UNLESS NOTED ROOF TRUSSES SHALL BE SEPARATED BETWEEN HEATED & UNHEATED AREAS

WOOD BEAM SPLICES SHALL MEET MBC A-9.23.8.3. "JOINT LOCATIONS IN BUILT-UP BEAMS".

POSTS SUPPORTING GIRDERS AND/OR BEAMS SHALL HAVE FULL BEARING UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL SHALL BE DESIGNED. FABRICATED AND ERECTED IN ACCORDANCE WITH THE CAN/CSA-S16-09 BY FULLY CERTIFIED MEMBERS OF THE CANADIAN INSTITUTE OF STEEL CONSTRUCTION.

ALL STRUCTURAL STEEL SHALL CONFORM TO THE CAN/CSA G40.21-350W CLASS C TO SIZES AND SHAPES INDICATED ON THE DRAWINGS. ALL ANGLES AND PLATES SHALL BE G40.21-300W. NO SUBSTITUTIONS IN GRADES OR SIZES ARE PERMITTED WITHOUT WRITTEN APPROVAL OF BEACH ROCKE ENGINEERING LTD.

ALL FABRICATION SHALL BE CARRIED OUT IN PLANT FACILITIES CERTIFIED BY THE CANADIAN WELDING BUREAU TO CSA \$16-09 AND \$136. SITE FABRICATION IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM BEACH ROCKE ENGINEERING LTD.

ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE CSA W59 BY WELDERS FULLY CERTIFIED FOR STRUCTURAL WELDING BY THE CANADIAN BUREAU TO CSA W47.1. ALL BASE AND CAP PLATES SHALL BE FULLY WELDED TO COLUMNS.

STRUCTURAL FASTENERS SHALL BE A325 BOLTS. ANCHOR BOLTS SHALL BE 18" LONG C/W 3" HOOK (A307) UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS. BASE AND CAP PLATES SHALL BE 1/2" THICK, CAP ALL HOLES SHALL BE DRILLED TO THE DEPTHS AND DIAMETERS SHOWN ON THE DRAWINGS. BEACH ROCKE ENGINEERING LTD. PLATES TO HAVE MIN. 4 BOLT (A325) CONNECTION UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS.

> PROVIDE TEMPORARY GUYING AND BRACING AS NECESSARY TO PROVIDE STABILITY FOR THE WHOLE STRUCTURE UNTIL DECKING AND PERMANENT BRACING ARE SECURED IN PLACE.

HOLES ARE NOT PERMITTED IN THE TOP FLANGES UNLESS NOTED OTHERWISE ON THE DRAWINGS.

INTERIOR STEEL SHALL BE PAINTED WITH ONE COAT OF RED OXIDE PRIMER, AFTER HAVING BEEN CLEANED TO

CLEAN ALL FIELD WELDS AND TOUCH UP WITH PRIMER TO MATCH SHOP COAT.

DESIGN AND FABRICATE CONNECTIONS FOR THE FULL STRENGTH OF THE MEMBER. SPLICING OF MEMBERS IS NOT PERMITTED UNLESS WRITTEN APPROVAL FROM BEACH ROCKE ENGINEERING LTD. HAS BEEN PROVIDED.

ALL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED.

O 0

Drive,

ADDRESS:

 \bigcirc

0

മ

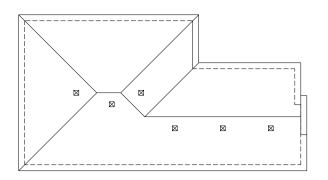
3 NOTE:

<u>-</u>0

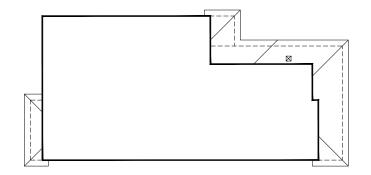
⊌

 \aleph

QUEST ပ်



MAIN ROOF PLAN SCALE: 1/16" = 1'-0"



LOWER ROOF PLAN SCALE: 1/16" = 1'-0"

WINDOW CONSTRUCTION -HS1A GLASS MIN. U-VALUE 1.25

HEIGHT OF WINDOWS ARE @ 7'-0" FROM TOP TO THE FLOOR TO TOP OF WINDOW

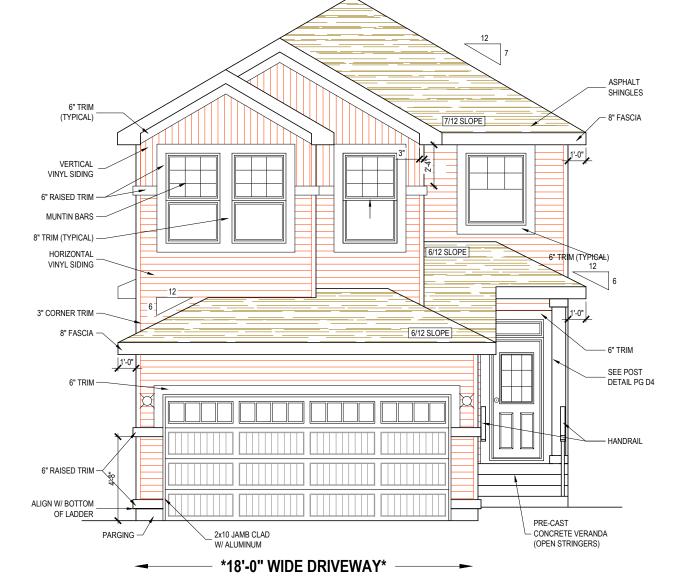
(CALCULATION FOR EACH UNIT SEPARATELY)

VENTING SOFFIT REQUIREMENTS			
TOTAL INSULATED CEILING AREA	540 sq.ft		
1/300 OF CEILING AREA	1.80 sq.ft		
25% OF CEILING AREA ON TOP & BOTTOM OF SPACE	0.45 sq.ft		

DAYTONA HOMES INC. ACKNOWLEDGES THE TOTAL AMOUNT OF VENTING SOFFITS REQUIRED BASED ON NATIONAL BUILDING CODE OF CANADA AND WILL CONFORM TO THE REVISIONS. SHADED AREA ON ROOF PLAN SHOWS WHERE NON-VENTED SOFFITS WILL BE LOCATED. DAYTONA HOMES WILL BE USING 0.018" UNPERFORATED ALUM. SOFFIT AND WILL PROVIDE EXTRA ROOF VENTING AS REQUIRED. WILL BE USING 7/16" PLYWOOD TO SEAL TRANSITION BETWEEN NON-VENTED TO VENTED AREAS

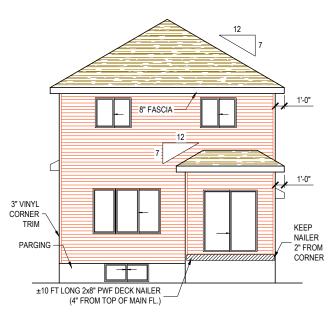
ELEVATION C2 - STANDARD

DEVELOPMENT AREA				
FUTURE BASEMENT (N.I.C.) =	474 sq.ft.			
MAIN FLOOR =	692 sq.ft.			
SECOND FLOOR =	954 sq.ft.			
TOTAL =	1,646 sq.ft.			



FRONT ELEVATION

SCALE: 3/16" = 1'-0"



REAR ELEVATION SCALE: 3/32" = 1'-0"

တ

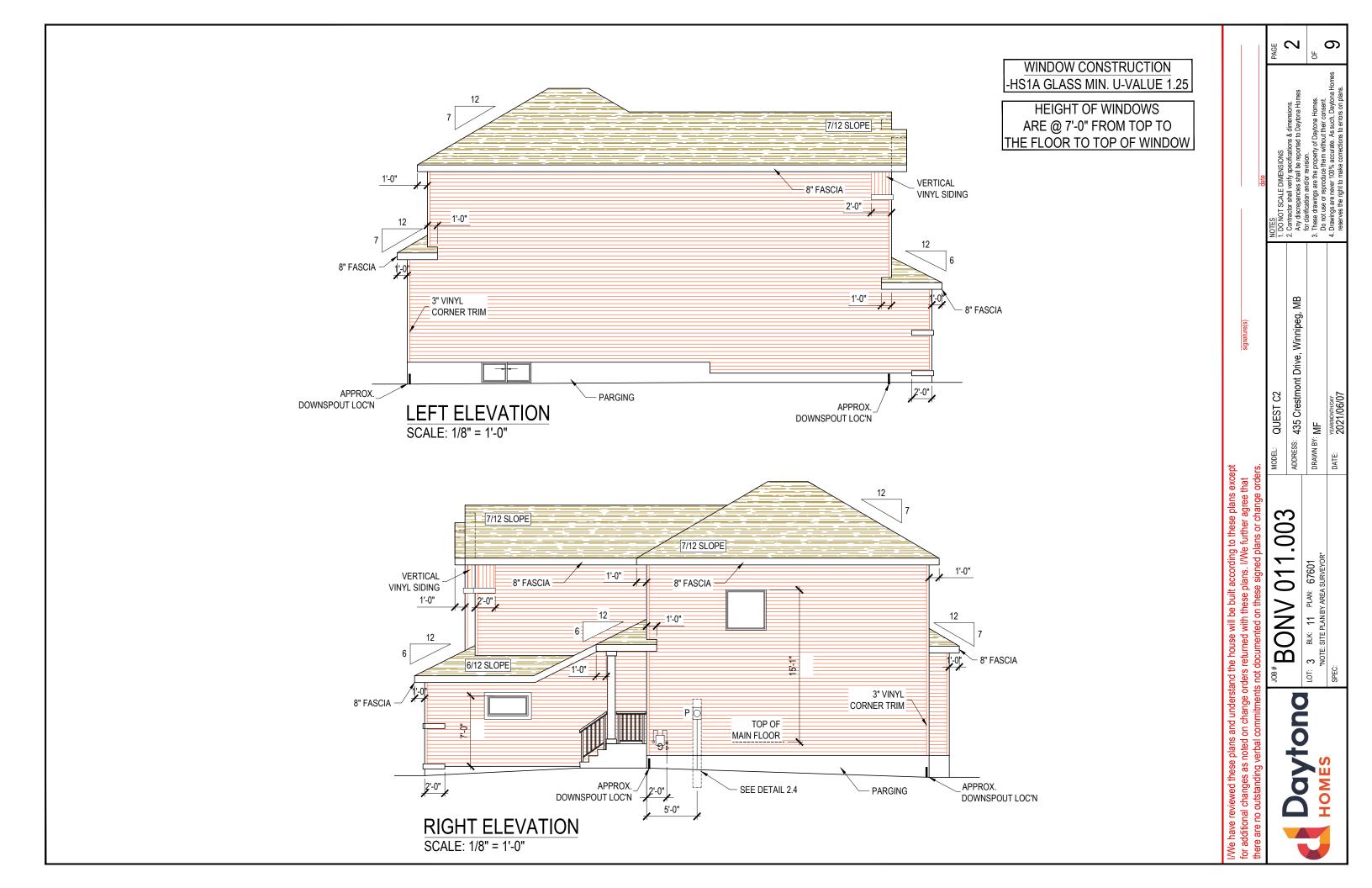
435 Crestmont Drive, Winnipeg, QUEST C2

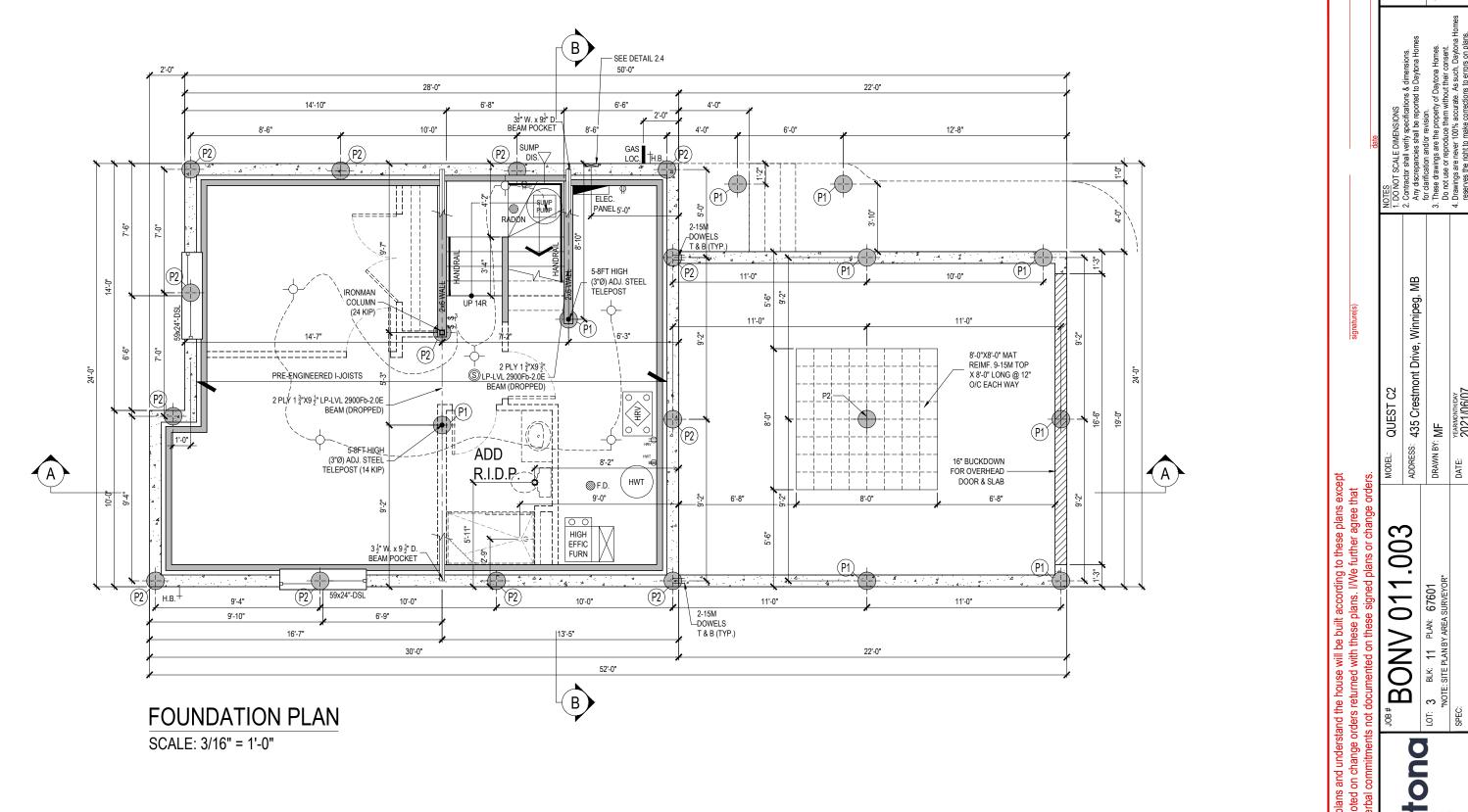
ADDRESS: DRAWN BY: 003

0

m ond







NOTE:
ROOM LAYOUT SHOWN WITH DASHED LINES
IS A SUGGESTED LAYOUT FOR BASEMENT
DEVELOPMENT FOR USE AS A FUTURE
REFERENCE ONLY

NO IMMEDIATE BASEMENT DEVELOPMENT

NOTE: MECHANICAL ROOM LAYOUT MAY VARY FROM THE BLUEPRINT IN ORDER TO ACHIEVE THE HIGHEST EFFICIENCIES

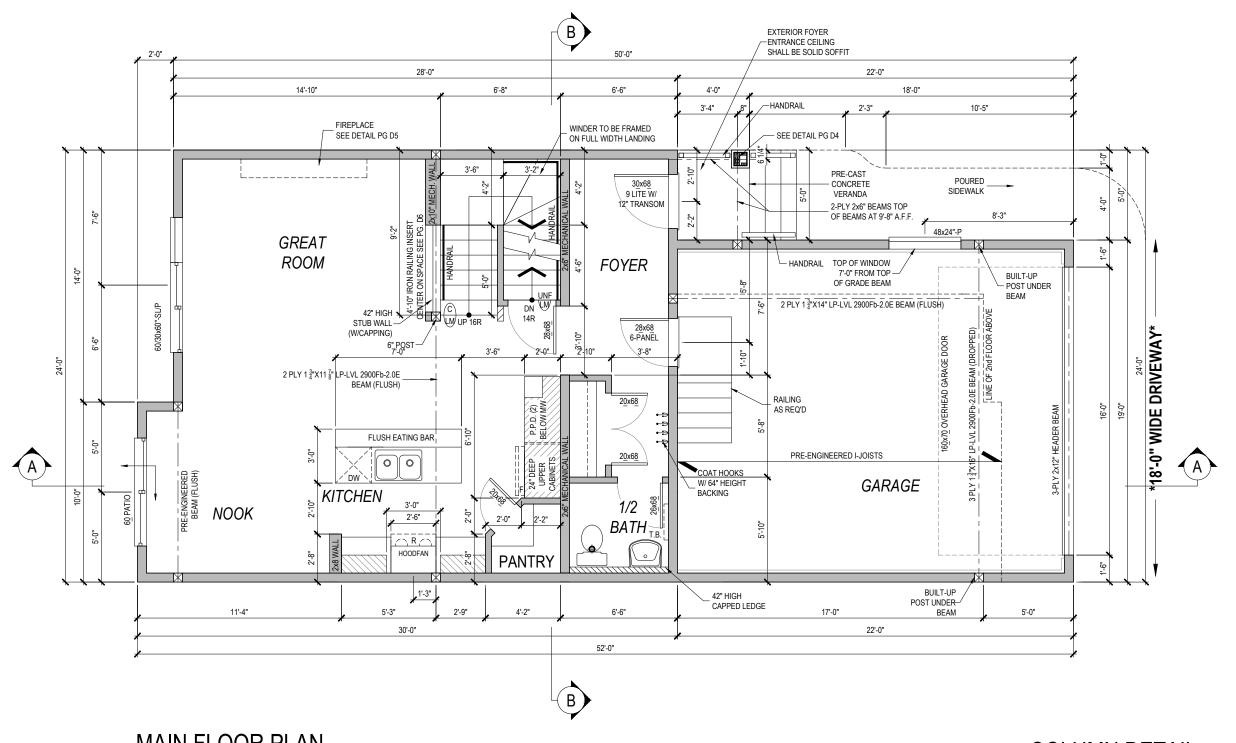
PILE LEGEND

P1) 16"Øx 20'-0" PILE C/W 1-20M VERT P2) 16"Øx25'-0" PILE C/W 1-20 M VERT I/We have reviewed these plans and unders for additional changes as noted on change there are no outstanding verbal commitmer

MOH

 \Im

0



MAIN FLOOR PLAN

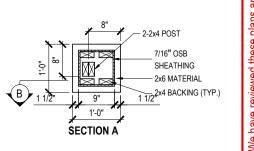
SCALE: 3/16" = 1'-0"

TRU-SEAL ATTIC HATCH NOTE:

THE ROUGH OPENING SIZE IS 22 1/2"X26" INSIDE OF FRAMING. INSULATION OSB (DEPTH 20") IS FASTENED TO INSIDE OF THIS OPENING (UP 1 1/2" FROM BOTTOM OF FRAMING)

10 ¹/₁₆" STAIR RUN (SEE SECTIONS FOR DETAILS)

COLUMN DETAIL SCALE: 1/2" = 1'-0" MORE DETAIL SEE PAGE D4



Daytona

JOB# BONV

LOT: 3 BLK: 11 PLA

HOMES

SPEC:

4

435 Crestmont Drive, Winnipeg,

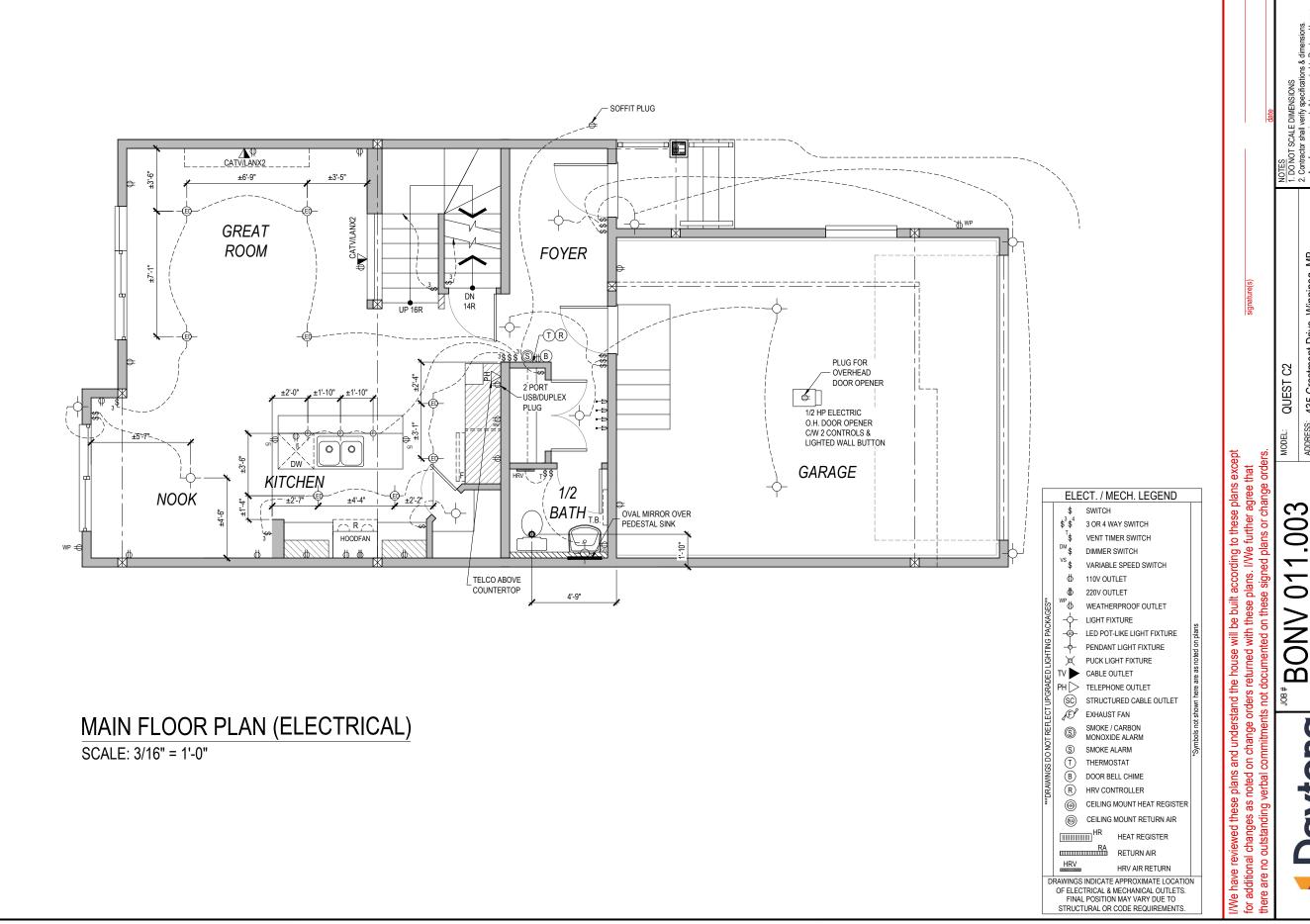
ADDRESS: DRAWN BY:

.003

011

MF

QUEST C2



5

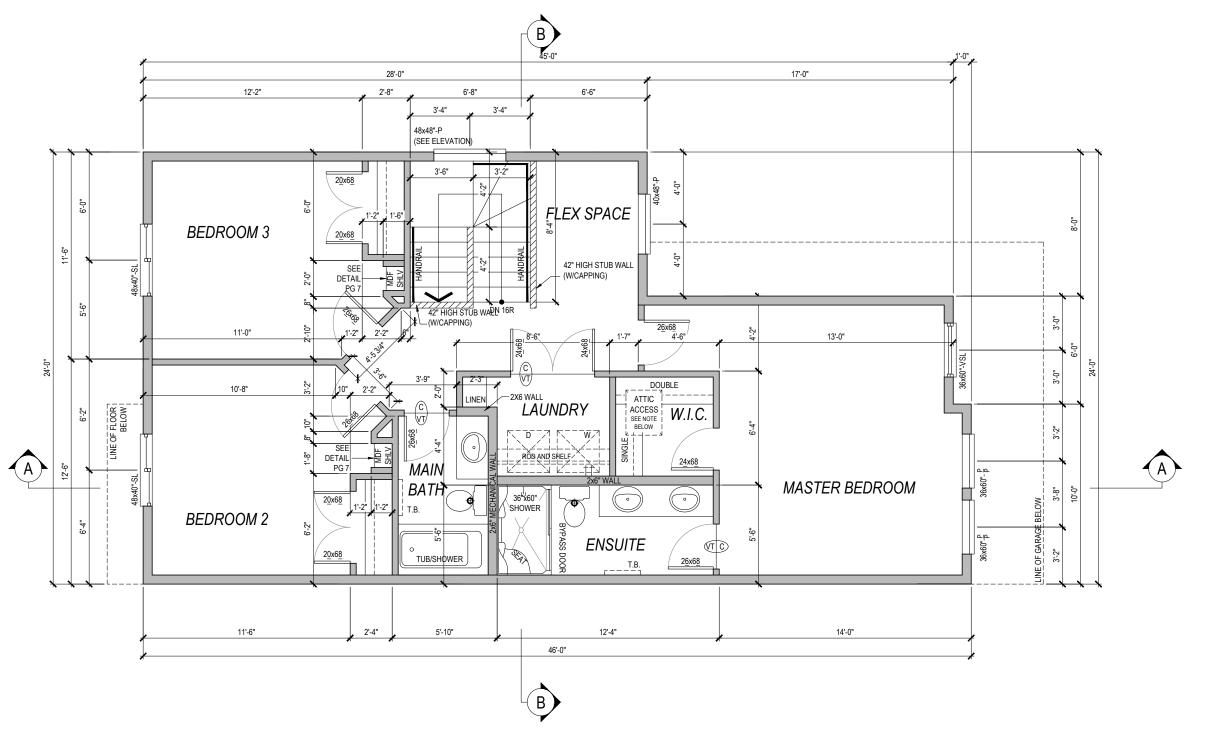
435 Crestmont Drive, Winnipeg,

ADDRESS:

ona

0

HOM



SECOND FLOOR PLAN

SCALE: 3/16" = 1'-0"

TRU-SEAL ATTIC HATCH NOTE:

THE ROUGH OPENING SIZE IS 22 1/2"X26" INSIDE OF FRAMING. INSULATION OSB (DEPTH 20") IS FASTENED TO INSIDE OF THIS OPENING (UP 1 1/2" FROM BOTTOM OF FRAMING)

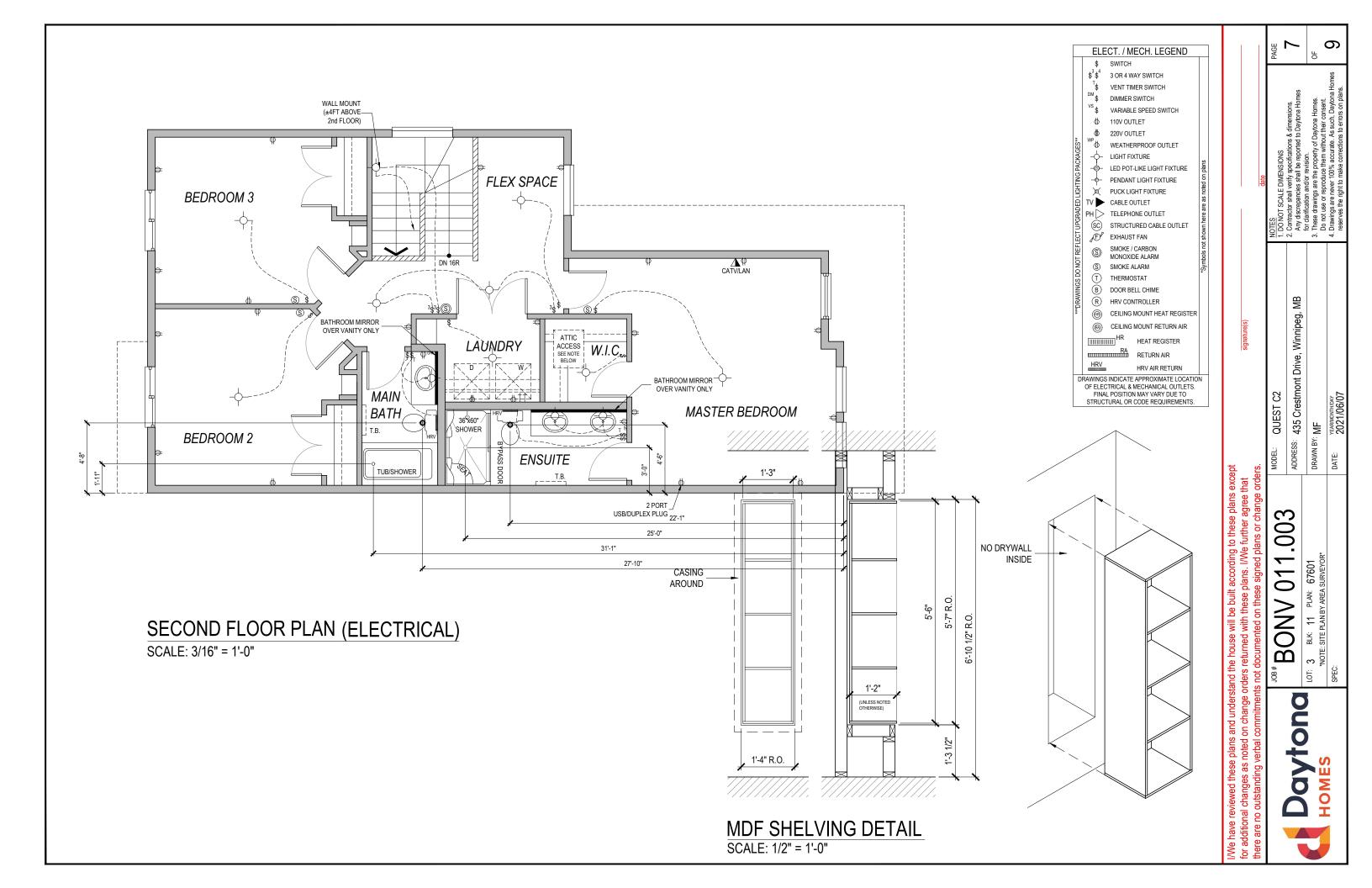
LAUNDRY ROOM COUNTERTOP HEIGHT SHOWN IS TO ACCOMMODATE FUTURE FRONT LOADING
WASHER AND DRYER ONLY

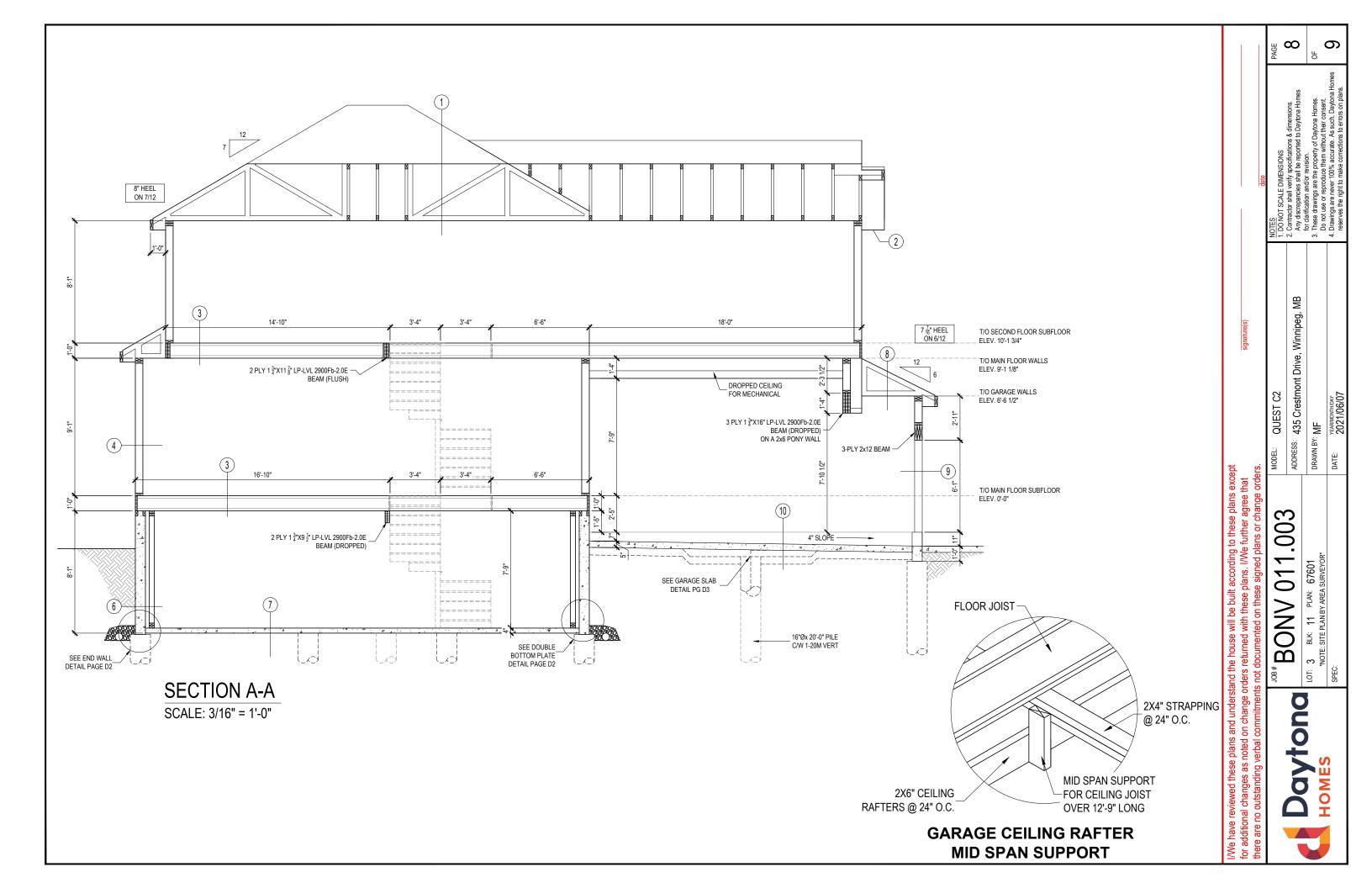
ADDRESS: 435 Crestmont Drive, Winnipeg, .003 0 BONV ond

HOM

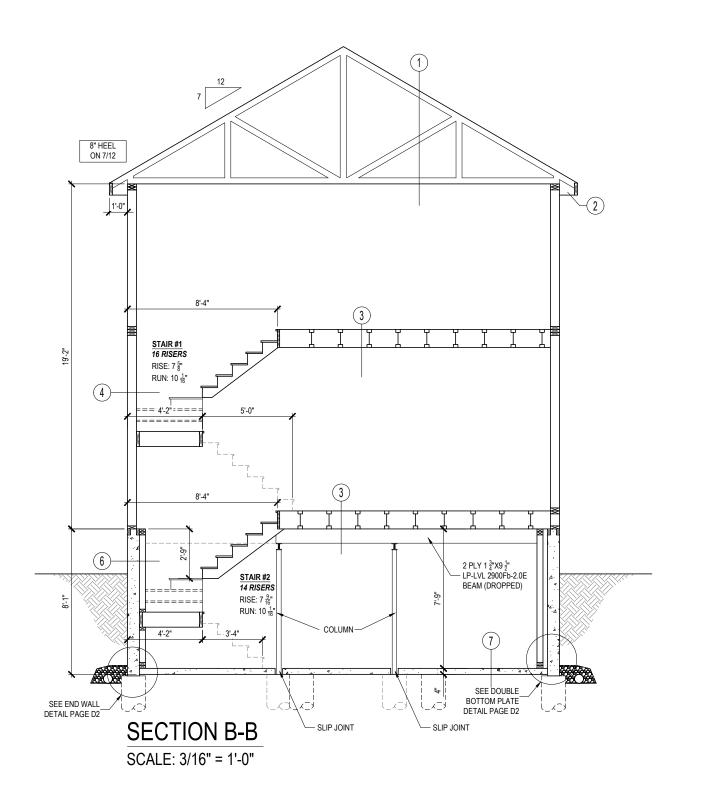
QUEST C2

9





- 1) ROOF CONSTRUCTION -ASPHALT SHINGLES -7/16" OSB ROOF SHEATHING -ENGINEERED ROOF TRUSSES **CEILING CONSTRUCTION** -R50 LOOSE FILL INSULATION -6 MIL VAPOUR BARRIER -1/2" DRYWALL (TYPE CD)
- (2) EXTERIOR EAVES -PREFINISHED ALUMINUM SOFFITS, FASCIA AND EAVES
- (3) FLOOR CONSTRUCTION -3/4" T&G OSB SUBFLOOR (GLUED AND SCREWED) -PRE-ENGINEERED FLOOR SYSTEM
- (4) EXTERIOR WALL CONSTRUCTION -EXTERIOR WALL FINISH -BUILDING PAPER -7/16" WALL OSB SHEATHING -2x6 STUDS @ 24" O.C. -R20 BATT INSULATION -6 MIL VAPOUR BARRIER -1/2" DRYWALL
- (5) INTERIOR WALL CONSTRUCTION -2x4 STUDS (UNLESS NOTED) @ 24" O.C. -1/2" DRYWALL ON FINISHED SIDE(S) -MECHANICAL STUDS TO LINE UP W/ JOIST SPACING
- 6 FOUNDATION CONSTRUCTION -16"Øx 25'-0" PILES C/W 1-20M -8" CONCRETE WALL REINF. W/ 2-15M BARS @ 3-10M HORIZONTAL EQ SPASED 10M VERTICAL @ 16 O.C. I.F. -3 1/2" AIR SPACE C/W R20 BATT INSULATION (STANDARD) -2x4 WOOD STUDS @ 24" O.C. -6MIL VAPOUR BARRIER
- (7) FLOOR CONSTRUCTION -4" CONCRETE SLAB -6 MIL VAPOUR BARRIER -RADON ROCK
- (8) GARAGE ROOF CONSTRUCTION -ASPHALT SHINGLES -7/16" OSB ROOF SHEATHING -ENGINEERED ROOF TRUSSES
- (9) GARAGE WALL CONSTRUCTION -7/16" WALL OSB SHEATHING -2x6 SPRUCE STUDS @ 24" O.C. -R20 BATT INSULATION -6 MIL VAPOUR BARRIER -1/2" DRYWALL
- (10) GARAGE FOUNDATION & FLOOR CONSTRUCTION -8" CONCRETE WALL REINF. W/ 2-10M BARS @ TOP & BOTTOM -5" CONCRETE SLAB-ON-GRADE 10M @ 18" O/C B.W. BOTTOM 6 MIL POLY 6" COMPACTED GRAVEL



3 *NOTE: O O 6 MOH

0

Winnipeg,

435 Crestmont Drive,

MF

DRAWN BY: ADDRESS:

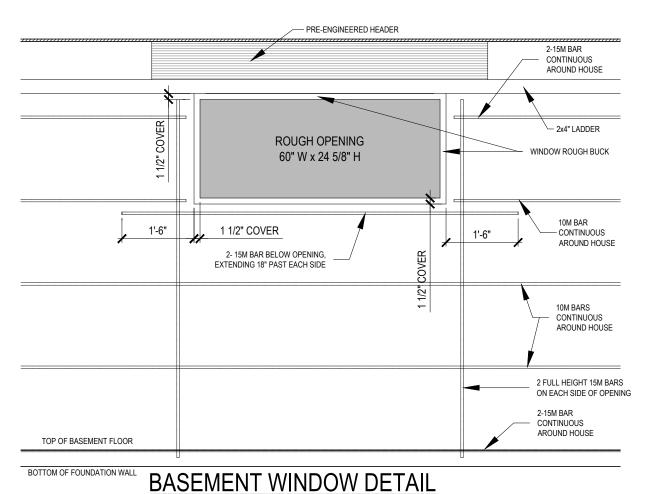
QUEST C2

003

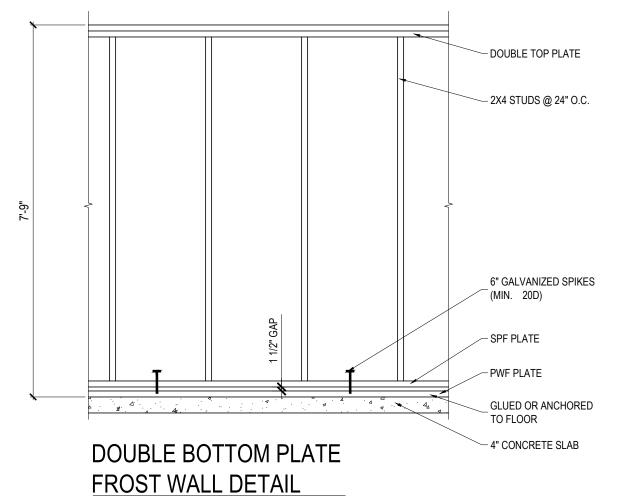
Ó

 $\mathbf{\Omega}$

0



SCALE: 1/2" = 1'-0"



SCALE: 1/2" = 1'-0"

If your nave reviewed these plans and understand the nouse will be built according to these plans except for additional changes as noted on change orders returned with these plans. I/We further agree that there are no outstanding verbal commitments not documented on these signed plans or change orders.

are no outstanding verbal commitments not documented on the JOB# BONV

HOMES

р В

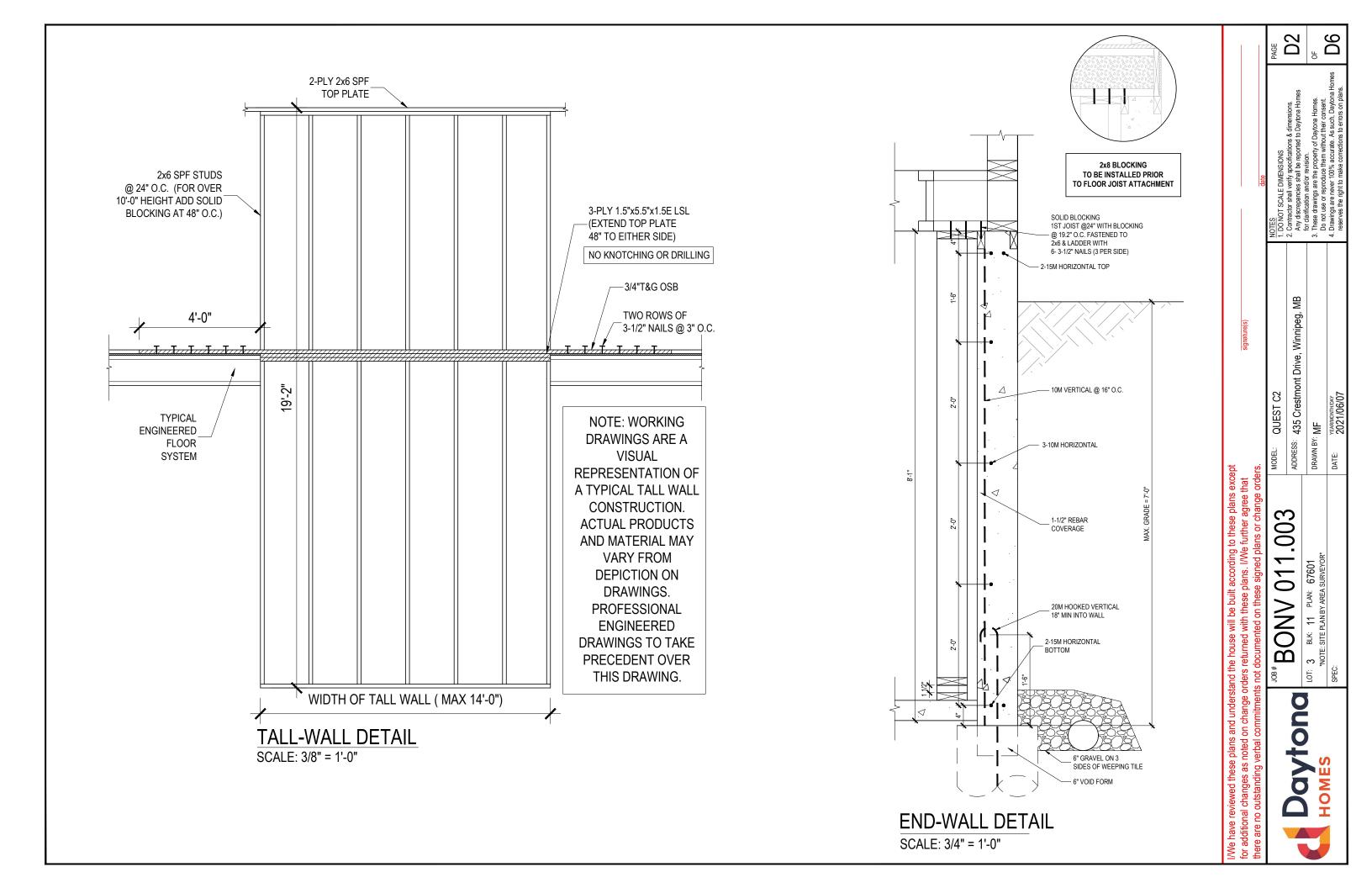
7

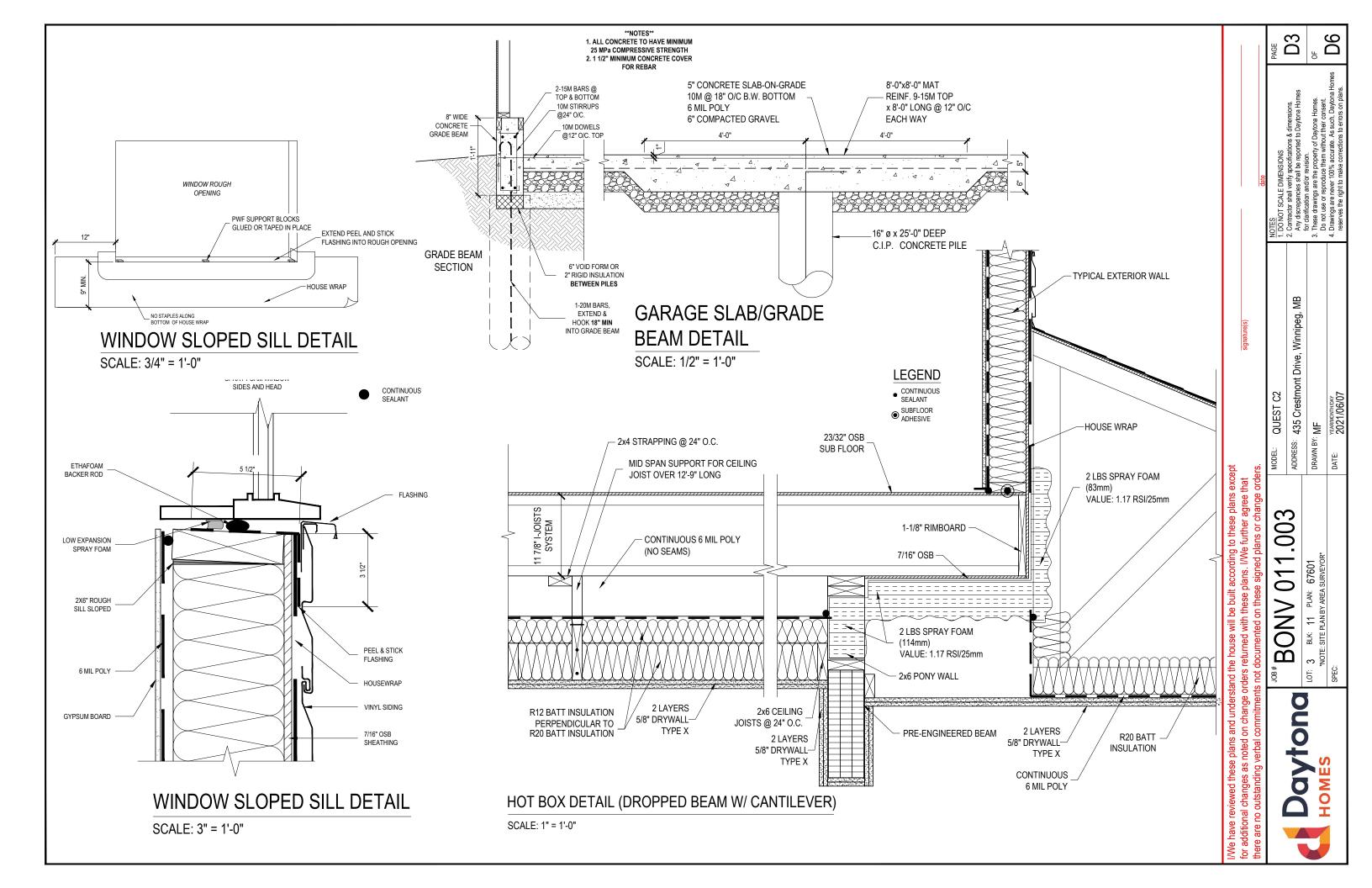
ADDRESS: 435 Crestmont Drive, Winnipeg,

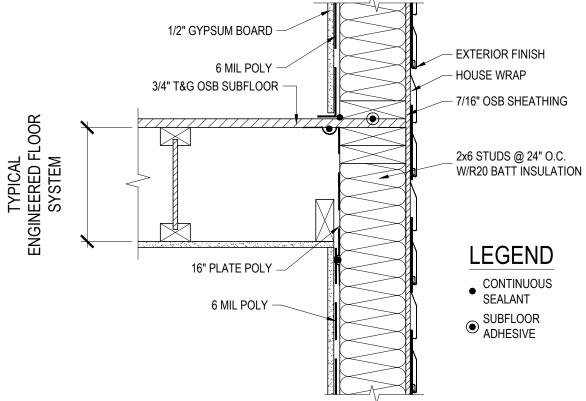
QUEST C2

.003

011

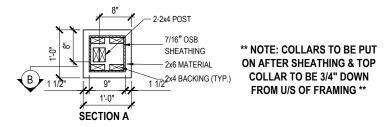


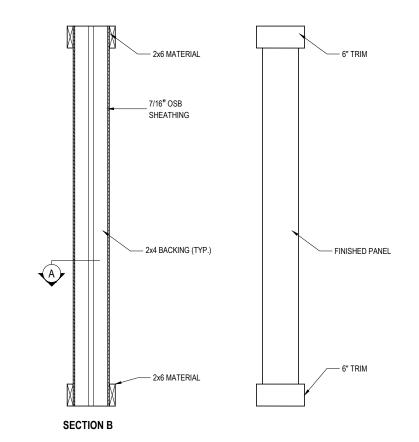




EXTERIOR WALL
PARALLEL TO SECOND FLOOR JOISTS DETAIL

SCALE: 1 1/2" = 1'-0"





VERANDA POST DETAIL
SCALE: 1/2" = 1'-0"

for additional changes as noted on change orders returned with these plans. I/We further agree that there are no outstanding verbal commitments not documented on these signed plans or change orders.

| JOB# | BONV 011.003 | MODEL MODEL |

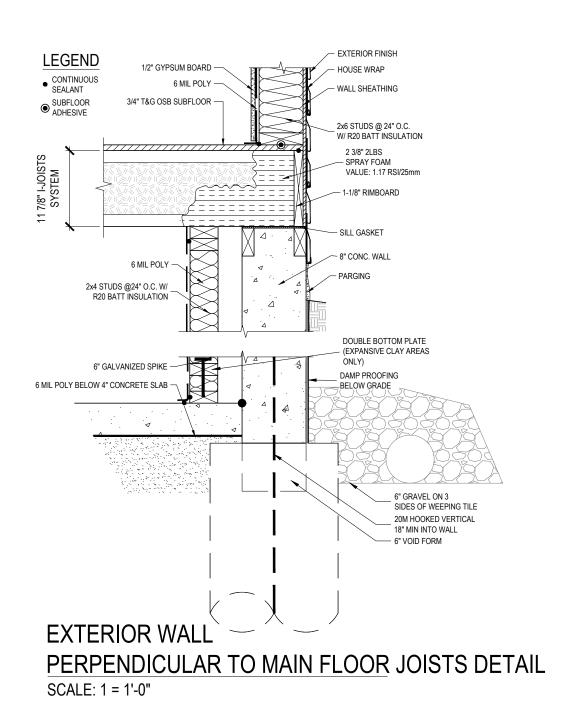
Daytona Lor. HOMES SPECIAL CONTINUES SPECIAL CON

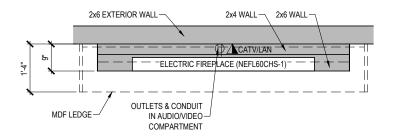
D4

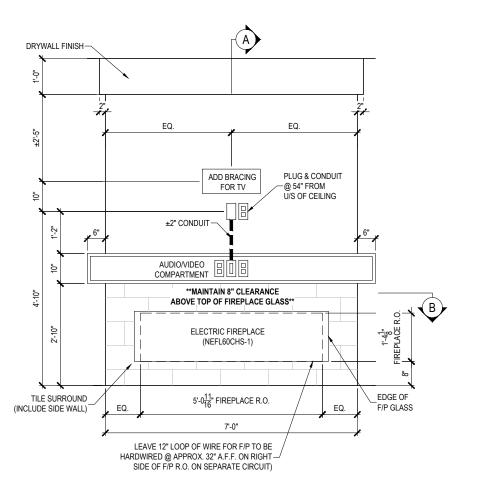
ADDRESS: 435 Crestmont Drive, Winnipeg,

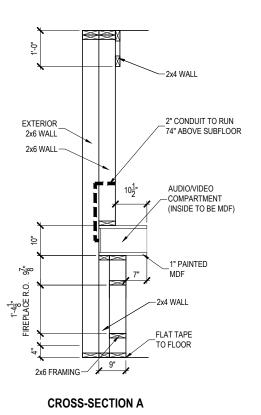
QUEST C2

он Об









GREAT ROOM FIREPLACE #1 SCALE: 3/8" = 1'-0"

I/We have reviewed these plans and understand the house will be built according to these plans except for additional changes as noted on change orders returned with these plans. I/We further agree that there are no outstanding verbal commitments not documented on these signed plans or change orders.

Daytona

D5

435 Crestmont Drive, Winnipeg,

ADDRESS: DRAWN BY:

003

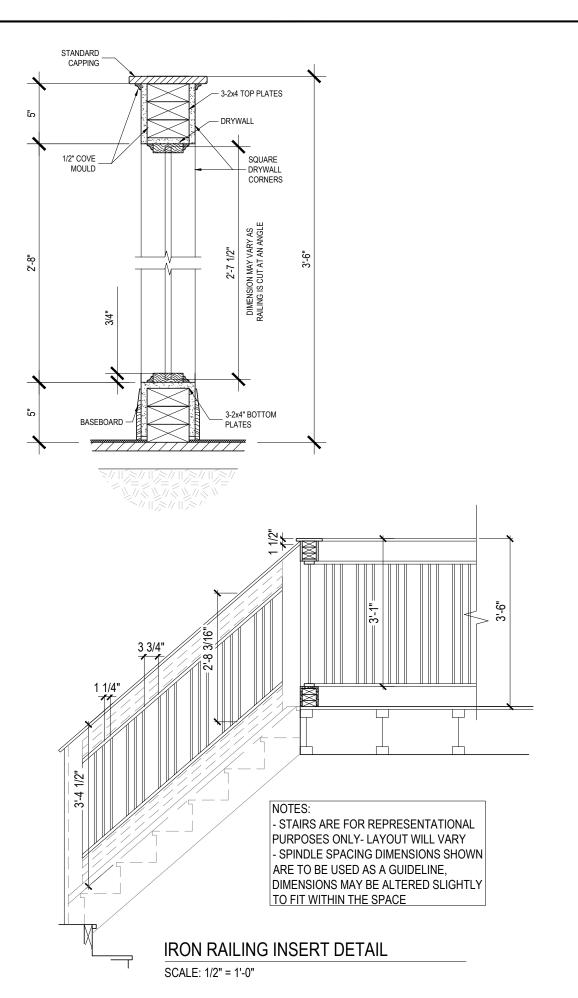
0

 \mathbf{m}

MF

QUEST C2

° D6



Daytona

Daytona

LOT: 3 BLK: 11 PLAN: 67601

NOTE: SITE PLAN BY AREA SURVEYOR*

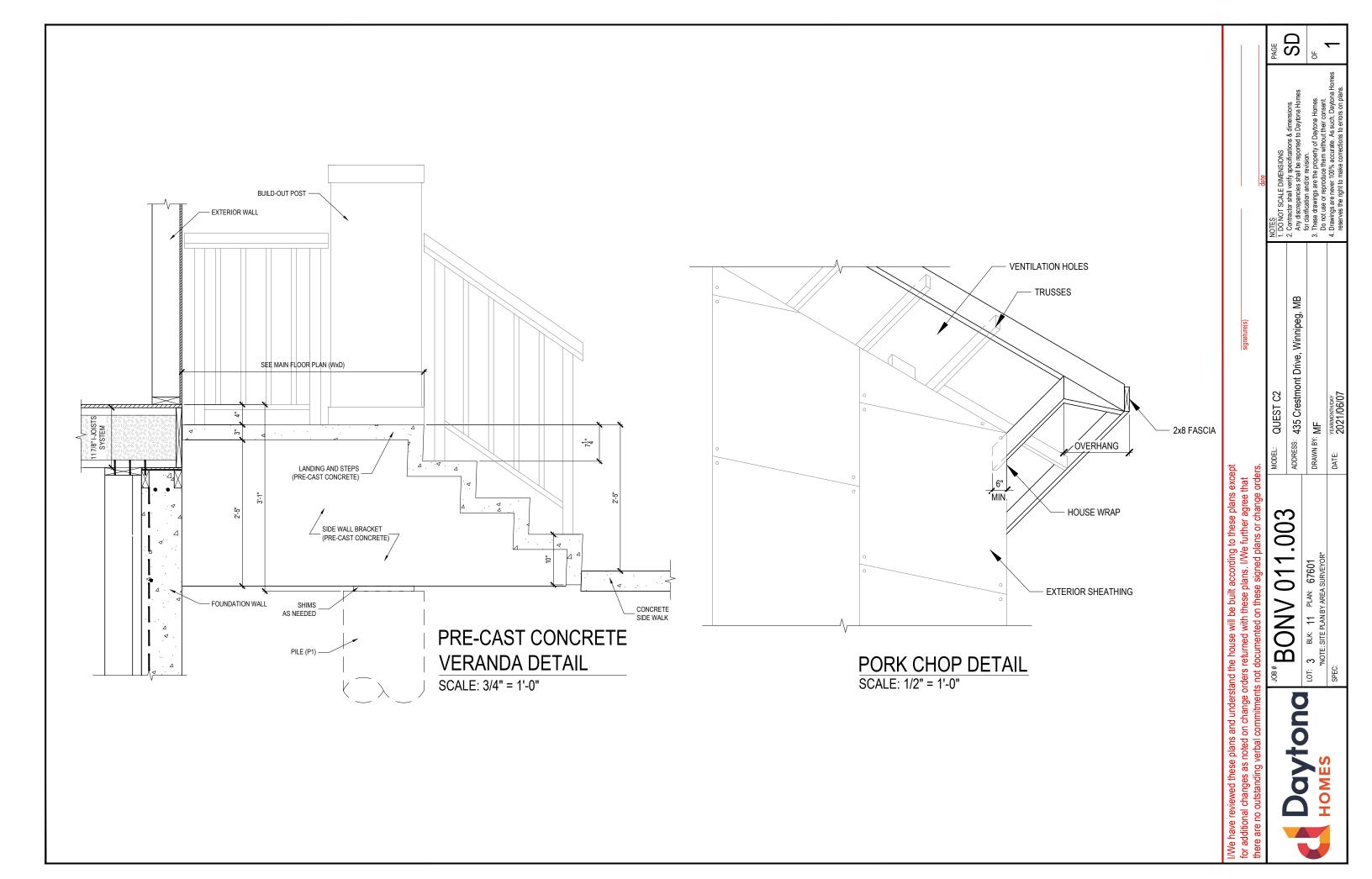
MODEL: QUEST C2

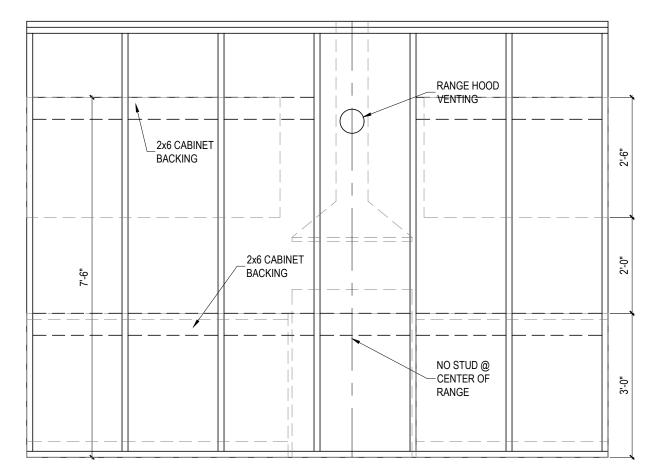
1. DO NOT SCA

2. Contractor sh
Any discrepation brawn BY: MF
DRAWN BY: MF
DATE: Any discrepation brawn BY: MF
Do not use or Any discrepation brawn BY: MF
Do not use or Any discrepation brawn BY: MF
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use or Any discrepation brave and BY
Do not use of BY
Do

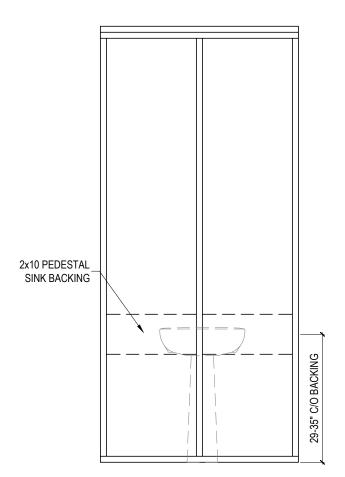
D6

р В





CABINET BACKING LOCATIONS SCALE: 1/2" = 1'-0"



PEDESTAL SINK BACKING LOCATIONS SCALE: 1/2" = 1'-0"

BONV tona HOMES

ADDRESS: 435 Crestmont Drive, Winnipeg, DRAWN BY: MF

QUEST C2

.003

011

SD