

PREFABRICATED HOME CONSTRUCTION

CARROT RIVER, SASK ISSUED FOR CONSTRUCTION



republic
architecture

374 Donald Street, First Floor
Winnipeg, MB R3B 2J2

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2	100% Construction Docs	15/03/31
1	75% Construction Docs	15/03/03
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Revision	Description	Date

Client		
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Project title		
2 SITES @ Carrot River, SK		
RTM DESIGN		

Approved by		
Designed by REPUBLIC ARCHITECTURE INC		
Drawn by BP		
Project Manager RD		
Client		

Drawing title		
COVER SHEET, DRAWING LIST, CONSULTANT LIST, SYMBOLS, & ABBREVIATIONS		
SCALE: AS NOTED		

Project No.	Sheet	Revision no./
92	A000	0

CONSULTANT LIST

ARCHITECTURAL

REPUBLIC ARCHITECTURE INC.

374 DONALD STREET, FIRST FLOOR,
WINNIPEG, MANITOBA,
R3B 2J2

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STRUCTURAL

CROSIER KILGOUR & PARTNERS LTD.
CONSULTING STRUCTURAL ENGINEERS

300-275 CARLTON STREET,
WINNIPEG, MANITOBA,
R3C 5R6

T 204 943 7501
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MECHANICAL

SMS ENGINEERING LTD.

770 BRADFORD STREET,
WINNIPEG, MANITOBA,
R3H 0N3

T 204 775 0291
F 204 772 2153

ELECTRICAL

SMS ENGINEERING LTD.

770 BRADFORD STREET,
WINNIPEG, MANITOBA,
R3H 0N3

T 204 775 0291
F 204 772 2153

DRAWING LIST

ARCHITECTURAL

- A000 - COVER SHEET, DRAWING LIST, CONSULTANT LIST,
SYMBOLS & ABBREVIATIONS
A010 - SITE PLAN
A020 - SITE PLAN
A030 - DOOR SCHEDULE, WINDOWS SCHEDULE & MILLWORK
WALL & FLOOR TYPES
A100 - MAIN FLOOR PLAN
A110 - BASEMENT FLOOR PLAN
A200 - REFLECTED CEILING PLAN
A300 - ELEVATIONS
A310 - BUILDING SECTIONS
A400 - WALL SECTIONS, SECTION DETAILS & NOTES
A410 - WALL SECTIONS, SECTION DETAILS & NOTES
(INCLUDING SOFFIT ALTERNATE)
A420 - STAIR PLAN, SECTIONS & DETAILS

STRUCTURAL

- S100 - FOUNDATION PLAN
S200 - MAIN FLOOR FRAMING PLAN
S300 - ROOF FRAMING PLAN & LINTEL SCHEDULE
S400 - WALL SECTIONS

MECHANICAL

- M000 - DRAWING LIST AND SYMBOL LEGEND
M100 - SITE PLAN - MECHANICAL
M110 - SITE PLAN - MECHANICAL
M200 - BASEMENT PLAN - PLUMBING
M210 - MAIN FLOOR PLAN - PLUMBING
M300 - BASEMENT PLAN - HVAC
M310 - MAIN FLOOR PLAN - HVAC
M400 - MECHANICAL SPECIFICATIONS
M410 - MECHANICAL SPECIFICATIONS
M500 - MECHANICAL DETAILS

ELECTRICAL

- E110 - SITE PLAN - ELECTRICAL
E200 - BASEMENT PLAN - LIGHTING
E210 - MAIN FLOOR PLAN - LIGHTING
E300 - BASEMENT PLAN - POWER AND SYSTEMS
E310 - MAIN FLOOR PLAN - POWER AND SYSTEMS
E400 - ELECTRICAL SPECIFICATIONS
E410 - ELECTRICAL SPECIFICATIONS
E500 - ELECTRICAL SCHEDULES AND GROUNDING DETIALS

SYMBOLS

- N
NORTH ARROW
1
BUILDING SECTION
1
WALL SECTION
1
ELEVATION
1
PLAN DETAIL
-
MATERIAL & CEILING HEIGHT
ABOVE FINISHED FLOOR
D###
DOOR NUMBER
W-
WALL TYPE
F-
FLOOR FINISH TYPE
-
KEY NOTE

ABBREVIATIONS

- A.F.F. - ABOVE FINISHED FLOOR
AR. GWB - ABUSE RESISTANT GWB
ACT. - ACOUSTIC CEILING TILE
ALUM. - ALUMINUM
ANOD. - ANODIZED
ARCH. - ARCHITECTURAL
B.B. - BASE BUILDING
BATT. - BATT INSULATION
BF - BARRIER FREE
BM. - BEAM
BLDG. - BUILDING
CPT. - CARPET
CLG. - CEILING
CL. - CENTRE LINE
COL. - COLUMN
C/W - COMPLETE WITH
CONC. - CONCRETE
CMU - CONCRETE MASONRY UNIT
CONT. - CONTINUOUS
CG. - CORNER GUARD
CORR. - CORRIDOR
DEMO - DEMOLITION
DP - DEEP
DIM. - DIMENSION
DIA. - DIAMETER
DN. - DOWN
DWG. - DRAWING
EA. - EACH
EL. - ELEVATION
ELEC. - ELECTRICAL
EQ. - DQUAL
EXIST. - EXISTING
EXT. - EXTERIOR
FO. - FACE OF
FIN. - FINISH
FR. - FIRE RATED
FR.R. - FIRE RESISTANCE RATING
FL. - FLOOR
FD. - FLOOR DRAIN
FE. - FIRE EXTINGUISHER
FS. - FULL SIZE
GA. - GAUGE
GL. - GLASS
GR. - GRADE
GWB. - GYPSUM WALL BOARD
HC - HOLLOWCORE
HD - HIGH DENSITY
HP - HIGH POINT
HORIZ. - HORIZONTAL
H.S.S. - HOLLOW STEEL SECTION
INT. - INTERIOR
I.F. - INSIDE FACE
INSUL. - INSULATION
LAM. - LAMINATED
LAV. - LAVATORY
LTTP. - LONG TERM THERMAL PERFORMANCE
MAX. - MAXIMUM
MECH - MECHANICAL
MTL - METAL
MSC. - MISCELLANEOUS
MIN. - MINIMUM
MUA - MAKE P AIR UNIT
NAT. - NATURAL
N.I.C. - NOT IN CONTRACT
N.T.S. - NOT TO SCALE
NO. - NUMBER
-
O.C. - OFF CENTRE
OPG. - OPENING
O.TOO. - OUT TO OUT
O.F. - OUTSIDE FACE
PTD. - PAINTED
PR. - PAIR
PL. - PLATE
PIAM - PLASTIC LAMINATE
PTN. - PARTITION
PREFIN. - PREFINISHED
PLWD. - PLYWOOD
POLU. - POLYETHYLENE
PS. - PRESSED STEEL
Q.T. - QUARRY TILE
R.W.L. - RAINWATER LEADER
RCV - RECEIVE
REINF. - REINFORCED
REQ. - REQUIRED
REV. - REVISED
RM. - ROOM
R.D. - ROOF DRAIN
R.Q. - ROUGH OPENING
RCP - REFLECTED CEILING PLAN
SIM - SIMILAR
SPEC. - SPECIFICATION
S.C. - SOLID CORE
STD. - STAINED
SS. - STAINLESS STEEL
STL. - STEEL
STRUCT. - STRUCTURAL
T.O. - TOP OF
T&G - TONGUE AND GROOVE
T.I. - TENANT IMPROVEMENT
TYP. - TYPICAL
US. - UNDERSIDE
U.L.C. - UNDERWRITER LABORATORIES OF CANADA
V.B. - VAPOUR BARRIER
VEN. - VENEER
VERT. - VERTICAL
V.C.T. - VINYL COMPOSITE TILE
W.B. - WEATHER BARRIER
W.P. - WATERPROOF
WD. - WOOD



ZONING REQUIREMENTS	
SITE AREA MINIMUM -	1,181 sf WITH LANE 1,476 sf WITHOUT LANE
LOT FRONTAGE -	39.37' WITH LANE 49.21' WITHOUT LANE
FRONT YARD MINIMUM -	19.68'
REAR YARD MINIMUM -	19.68'
SIDE YARD MINIMUM -	4.92'
FLOOR AREA -	699.65 sf

SITE KEYNOTES

- ① 24 x 24 CONCRETE SIDEWALK PAVERS ON 4" COMPACTED GRANULAR FILL & WEED MAT
- ② WOOD ENTRANCE STAIR, GUARD & RAIL (SEE DRAWING A420 FOR DETAILS)
- ③ ROOF OVERHANG ABOVE
- ④ PYRAMIDAL CEDARS - PLANT MIN. 4' FROM FOUNDATION WALL

LANDSCAPE REQUIREMENTS

1. NEW GRADING TO SLOPE AWAY FROM BUILDING @ 5% WITHIN 5'-0" OF THE EXTERIOR WALL AND @ 2% FOR THE REMAINDER WHERE THE LANDSCAPE HAS BEEN DISTURBED
2. SOD ALL DISTURBED AREAS OF LANDSCAPE



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Revision	Description	Date

Project title

2908 Albert Street, Carrot River, SK

RTM DESIGN

Approved by _____

Designed by
REPUBLIC ARCHITECTURE INC

Drawn by
BP

Project Manager
RD

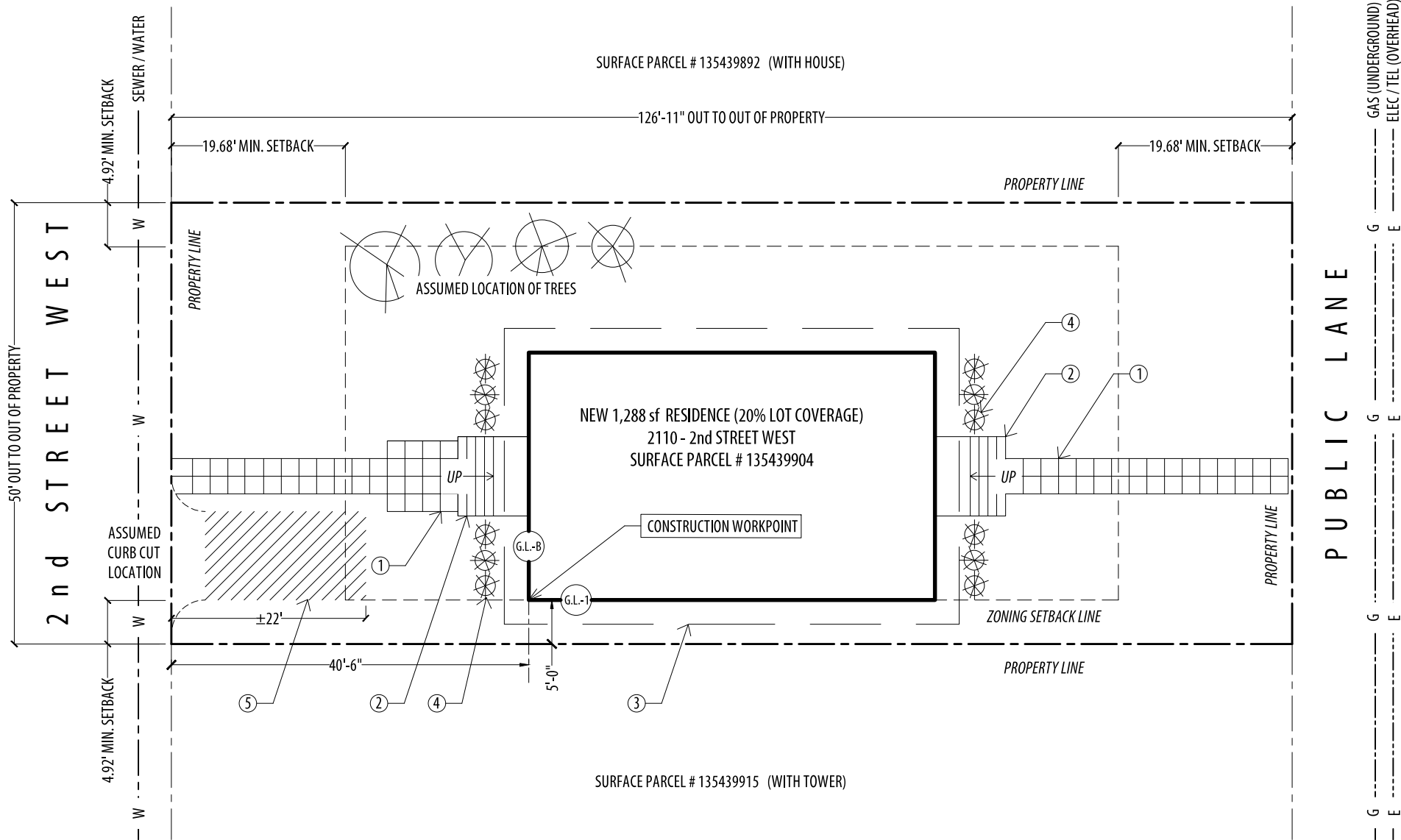
Client _____

Drawing title

SITE PLAN

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	A010	0



1
A010
SITE PLAN (AREA: 6,341 sf)
1/16" = 1'-0"

ZONING REQUIREMENTS	
SITE AREA MINIMUM -	1,181 sf WITH LANE 1,476 sf WITHOUT LANE
LOT FRONTAGE -	39.37' WITH LANE 49.21' WITHOUT LANE
FRONT YARD MINIMUM -	19.68'
REAR YARD MINIMUM -	19.68'
SIDE YARD MINIMUM -	4.92'
FLOOR AREA -	699.65 sf

SITE KEYNOTES	
①	24 x 24 CONCRETE SIDEWALK PAVERS ON 4" COMPACTED GRANULAR FILL & WEED MAT
②	WOOD ENTRANCE STAIR, GUARD & RAIL (SEE DRAWING A420 FOR DETAILS)
③	ROOF OVERHANG ABOVE
④	PYRAMIDAL CEDARS - PLANT MIN. 4' FROM FOUNDATION WALL
⑤	PROVIDE 6" DEEP COMPACTED GRAVEL PARKING PAD C/W WEED MAT @ EXISTING CURB CUT

LANDSCAPE REQUIREMENTS	
1.	NEW GRADING TO SLOPE AWAY FROM BUILDING @ 5% WITHIN 5'-0" OF THE EXTERIOR WALL AND @ 2% FOR THE REMAINDER WHERE THE LANDSCAPE HAS BEEN DISTURBED
2.	SOD ALL DISTURBED AREAS OF LANDSCAPE



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0		
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Client

Project title
2110 - 2nd Street West, Carrot River, SK

RTM DESIGN

Approved by

Designed by
REPUBLIC ARCHITECTURE INC

Drawn by

BP

Project Manager

RD

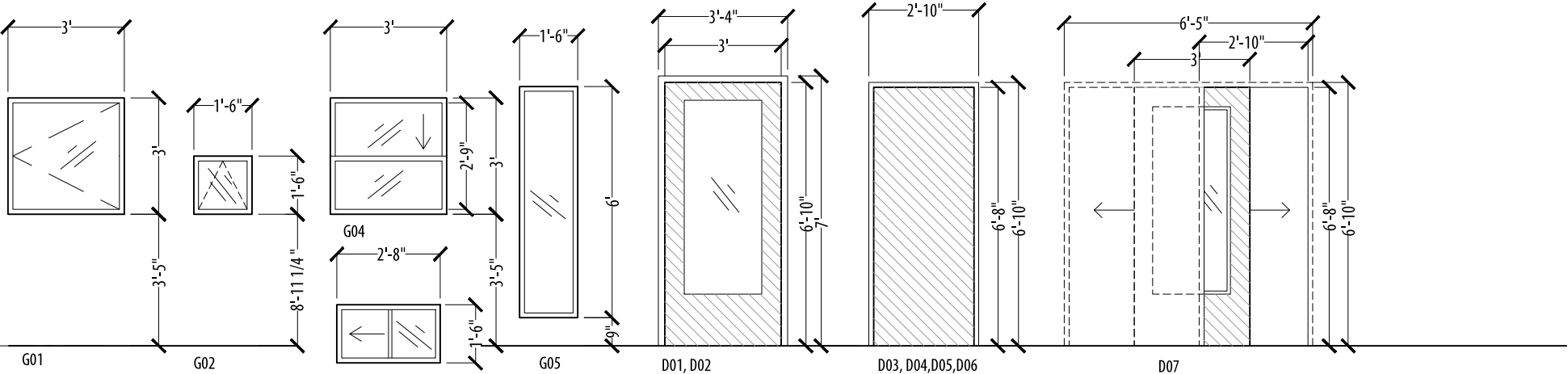
Client

Drawing title

SITE PLAN

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	A020	0



1 WINDOW & DOOR TYPES
A030 1/4" = 1'-0"

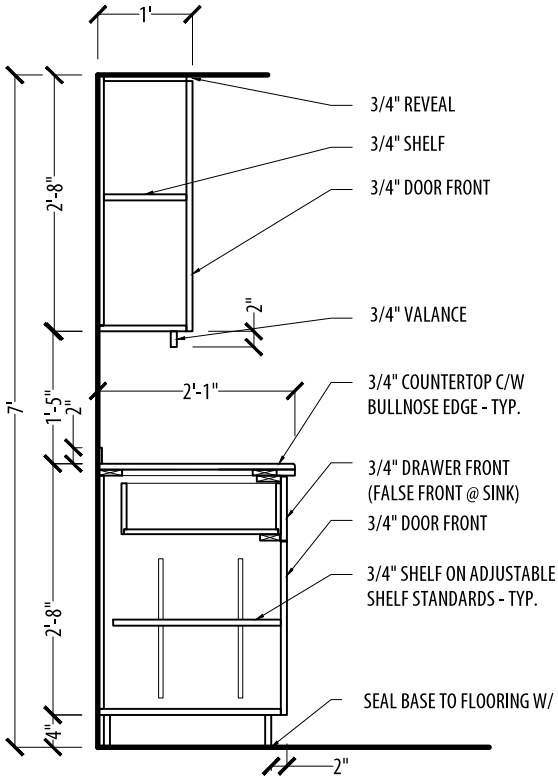
- NOTES:
- 1.) WINDOWS TO BE DUAL GLAZED SEALED UNITS C/W ARGON GAS AND LOW E COATING. FRAME TO BE PVC. OPERABLE WINDOWS (WHERE SHOWN) TO BE CASEMENT STYLE C/W WEATHER STRIPPING AND INSECT SCREENS
 - 2.) ALL WINDOW & DOOR CASING TO BE 4" PAINT PRIMED WOOD MINIMAL PROFILE (CONFIRM PROFILE W/ CONSULTANT)
 - 3.) PROVIDE CRANK EXTENSION FOR AWNING WINDOWS (REVIEW REQUIREMENTS W/ ARCHITECT)

DOOR & DOOR FRAME SCHEDULE																
				DOOR			DOOR FRAME					HARDWARE				
DOOR#	LOCATION	DOOR SIZE (WxHT)	FRAME SIZE (WxHT)	MATERIAL	FINISH	INSUL	GLAZE	MAT	FINISH	PASS	LOCK	PRIV	DB	TH	WS	VB
D01-D02	EXTERIOR	3' x 6'-10"	3'-4" x 7'	(DUXTON) FIBERGLASS	PAINT	×	×	METAL	PAINT (WHITE)				×	×	×	×
D03-D06	INTERIOR	2'-8" x 6'-8"	2'-10" x 6'-10"	WOOD	WOOD VENEER	-	-	WOOD	PAINT	×	×	×				
D07	INTERIOR	3' x 6'-8"	6' 5"-6'-10"	WOOD	WOOD VENEER	-	FROSTED	WOOD	PAINT	×	×	×				
				REMARKS												
				PROVIDE W/ PAINTED WOOD AESTHETIC TO MATCH FIR TRIM ABOVE												
				D03, D04, D06 C/W LOCKING PRIVACY, D05 PASSAGE DOOR HARDWARE												
				D07 POCKET DOOR C/W LOCKING PRIVACY												

2 DOOR & DOOR FRAME SCHEDULE
A030

- NOTES:
- 1.) ALL DOOR HANDLES TO BE LEVER C/W BRUSHED ALUM. FINISH
 - 2.) CONFIRM KEYING REQUIREMENTS WITH OWNER

- HARDWARE LEGEND:
- PASS PASSAGE HARDWARE
 - LOCK LOCKING
 - PRIV PRIVACY DOOR HARDWARE
 - DB DEADBOLT
 - TH THRESHOLD
 - WS WEATHERSTRIPPING
 - VB VENETIAN BLINDS (SEALED)



MILLWORK FINISH SCHEDULE:

- CABINETS
- BIRCH - CLEAR FINISH
 - SOLID WOOD EDGEBANDING - SPECIES TO MATCH
- COUNTERTOP
- WILSONART LAMINATE 4945-38 ORGANIC COTTON
- BACKSPLASH
- WILSONART LAMINATE 4942-38 CRISP LINEN

- GENERAL NOTES:
- 1. PROVIDE SHOP DRAWINGS FOR CONSULTANT REVIEW PRIOR TO CONSTRUCTION.
 - 2. ALL DRAWERS AND CABINETS TO BE PROVIDED W/ S.S. BAR PULLS

REFER TO PLANS & INTERIOR ELEVATIONS FOR WIDTHS
REFER TO INTERIOR ELEVATIONS & SPEC FOR FINISHES

3 TYPICAL MILLWORK SECTION
A030 SCALE 1/2" = 1'-0"

PAINT FINISH SCHEDULE					
ROOM	ORIENTATION RELATIVE TO PAGE				
	TOP	RIGHT	BOTTOM	LEFT	CEILING
ENTRY	PAINT - 1	PAINT - 1	PAINT - 1	PAINT - 1	PAINT - 1
REAR ENTRY	PAINT - 1	PAINT - 2	PAINT - 1	PAINT - 1	PAINT - 1
KITCHEN	PAINT - 1	PAINT - 1	PAINT - 1	PAINT - 1	PAINT - 1
LIVING	PAINT - 2	PAINT - 1	PAINT - 1	PAINT - 1	PAINT - 1
PANTRY	PAINT - 1	PAINT - 1	PAINT - 1	PAINT - 1	PAINT - 1
WC-1	PAINT - 3	PAINT - 3	PAINT - 3	PAINT - 3	PAINT - 1(SEMI-G)
WC-2	PAINT - 3	PAINT - 3	PAINT - 3	PAINT - 3	PAINT - 1(SEMI-G)
BEDROOM-1	PAINT - 2	PAINT - 1	PAINT - 1	PAINT - 1	PAINT - 1
BEDROOM-2	PAINT - 2	PAINT - 1	PAINT - 1	PAINT - 1	PAINT - 1
BEDROOM-3	PAINT - 1	PAINT - 1	PAINT - 1	PAINT - 1	PAINT - 1
CORRIDOR	PAINT - 1	PAINT - 1	PAINT - 2	PAINT - 1	PAINT - 1

PAINT - 1: General Paint 15210 Envirogard no tint PAINT - 2: Colourlife by General Paint CL2871W Fantail
PAINT - 3: Colourlife by General Paint CLC1231W Yuma
NOTE: SHEEN FOR CEILING - FLAT / SHEEN FOR WALLS - EGGSHELL / SHEEN FOR BATHROOMS - SEMI-GLOSS / SHEEN FOR TRIM & BASEBOARDS - SEMI-GLOSS

WALL TYPE SCHEDULE:

- W1 TYPICAL EXTERIOR WALL ASSEMBLY
5/16" CEMENT BOARD SIDING (SEE ELEVATIONS)
AIR BARRIER
P.T. 1/2" PLYWOOD SHEATHING
5.5" BATT INSULATION
2X6 WOOD STUDS @ 16"
V.B.
1/2" PLYWOOD SHEATHING
1/2" GWB

- W2 TYPICAL INTERIOR PARTITION (UNLESS OTHERWISE NOTED)
1/2" GWB BOTH SIDES
(INSULATION IF SHOWN IN DRAWING)
2X4 WOOD STUDS @ 16" O.C.

- W2A STUB WALL
TOP OF WALL - 3'-0" A.F.F.
1/2 " BIRCH VENEER PLYWOOD BOTH SIDES & TOP
2X4 WOOD STUDS @ MIN. 16" O.C.

- W3 INTERIOR PARTITION
1/2" GWB BOTH SIDES
(INSULATION IF SHOWN IN DRAWING)
2X6 WOOD STUDS @ 16" O.C.

- W4 TYPICAL FOUNDATION WALL ASSEMBLY
8" CONCRETE FOUNDATION (SEE STRUCT.)
1" RIGID INSULATION BOARD (R5)
2X6 WOOD STUD FRAMING @ 16" O.C.
(COMPLETE WITH SLIP JOINT)
5.5" BATT INSULATION (R20)
V.B.

FLOOR FINISH SCHEDULE:

- F1 TYPICAL FLOOR FINISH
RESILIENT PLANK
(ZAXXON - CLEAR BIRCH OR EQUAL)
- F2 ENTRY WAY FLOOR FINISH
SHEET VINYL - ARMSTRONG CORCON B8712
- F3 WC FLOOR FINISH
SHEET VINYL - ARMSTRONG CORCON B8712
- F4 BASEMENT FLOOR FINISH
SMOOTH CONCRETE FINISH

NOTE*: TRANSITIONS -SCHLUTER, RENO-U-AE,PROFILE HEIGHT TO BE CONFIRMED BY CONTRACTOR ON-SITE.

- GENERAL NOTES:
- 1. DIMENSIONS TO FACE OF STUD UNLESS OTHERWISE NOTED.
 - 2. PROVIDE ADDITIONAL 10% MATERIAL FOR TAPING, CORNER AND GWB RELATED SITE FINISH WORK.

GENERAL ASSUMPTIONS: (CONTRACTOR TO CONFIRM TRANSPORTATION REQUIREMENTS PRIOR TO CONSTRUCTION)



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Project title

2 SITES @ Carrot River, SK

RTM DESIGN

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REPUBLIC ARCHITECTURE INC

Drawn by
BP

Project Manager
RD

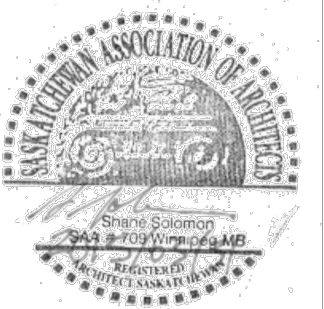
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Drawing title

DOOR SCHEDULE, WINDOW SCHEDULE, MILLWORK, WALL & FLOOR TYPES

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92	A030	0



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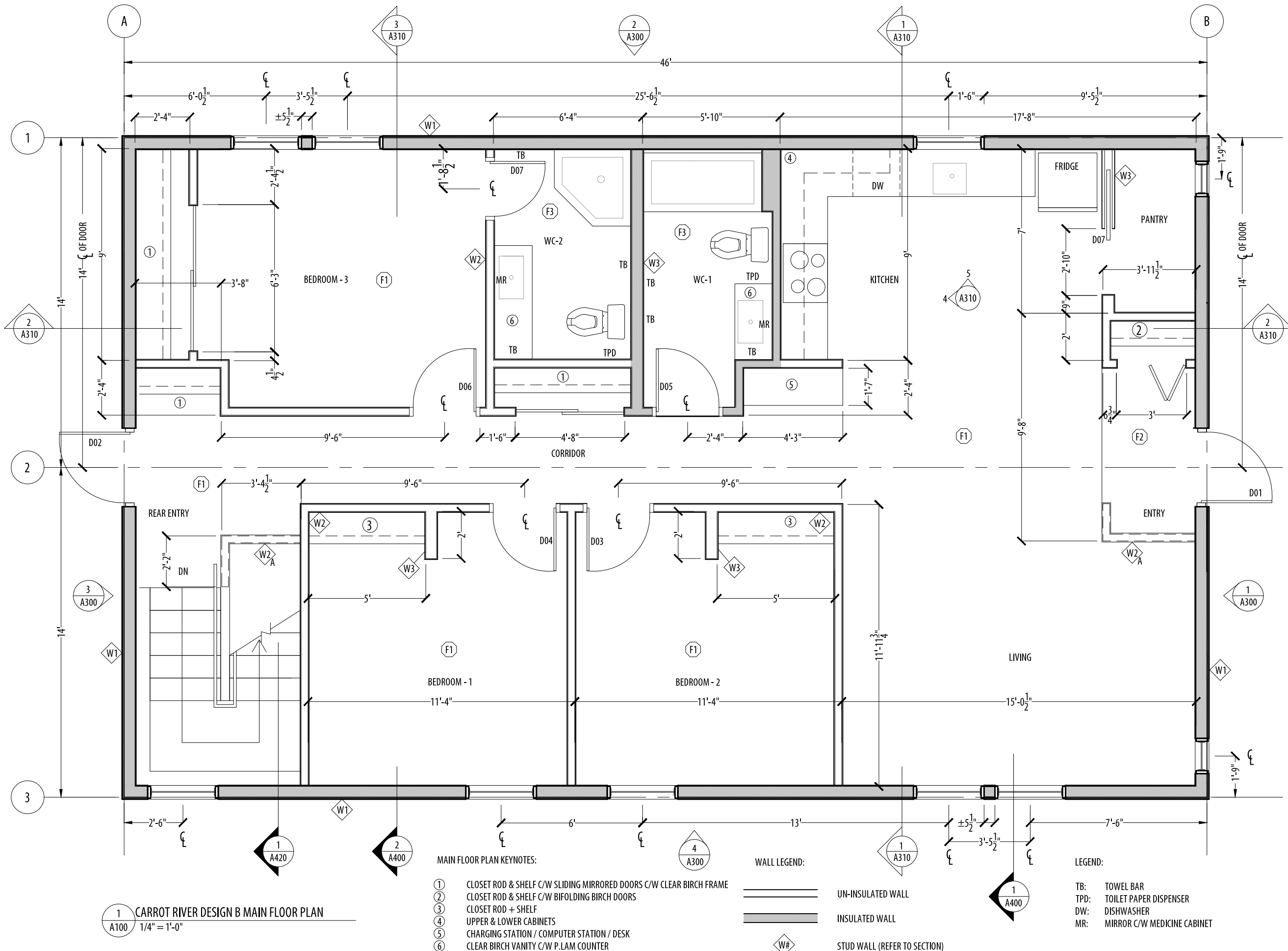
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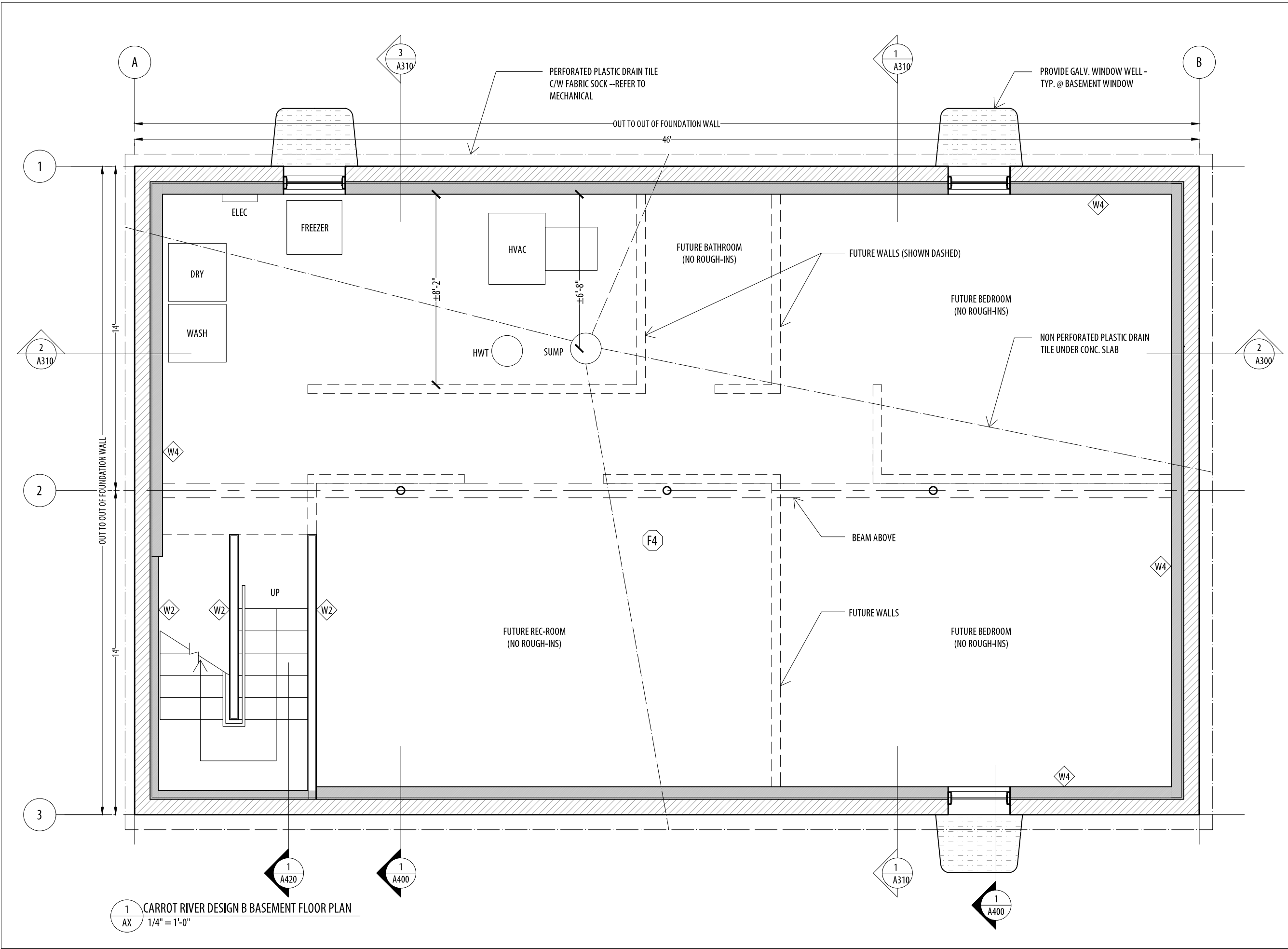
Drawing title

MAIN FLOOR PLAN

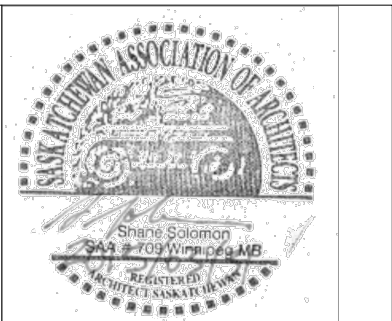
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92	A100	0





1
AX
CARROT RIVER DESIGN B BASEMENT FLOOR PLAN
1/4" = 1'-0"



Shane Solomon
SAA # 709 Winnipeg MB
REGISTERED
ARCHITECT SASKATCHEWAN

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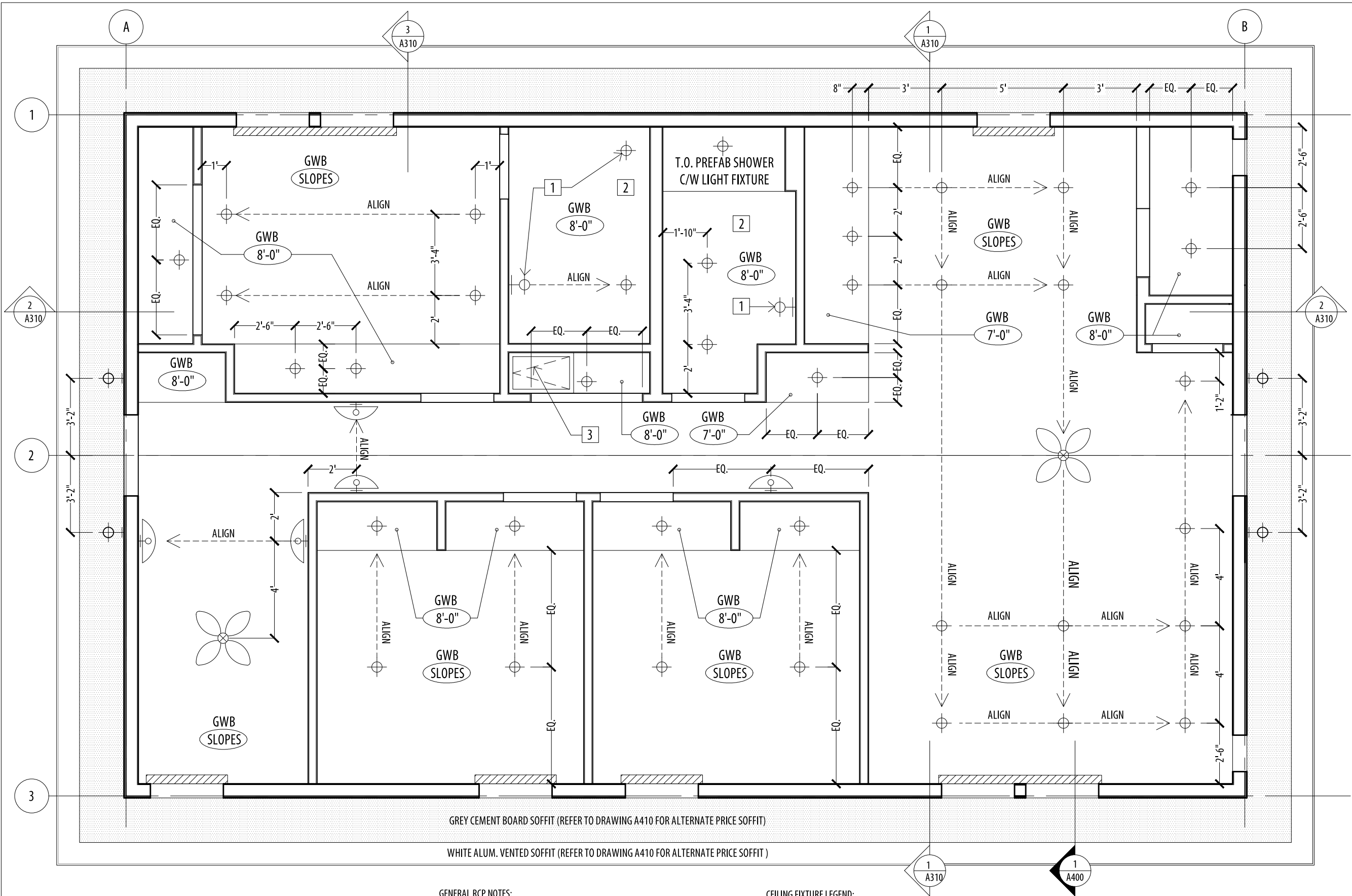
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Drawing title

BASEMENT FLOOR PLAN

SCALE: AS NOTED

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92	AI10	0



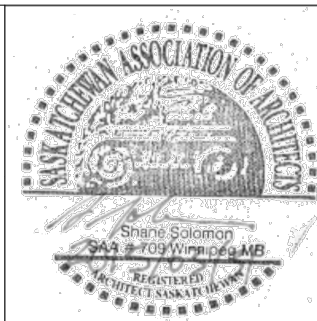
1 CARROT RIVER DESIGN B REFLECTED CEILING PLAN
A200 1/4" = 1'-0"

GENERAL RCP NOTES:
1. DIMENSIONS TO FACE OF FINISH UNLESS OTHERWISE NOTED.

MAIN FLOOR RCP KEYNOTES:
1 CENTRE LIGHT FIXTURE OVER PLUMBING FIXTURE
2 PROVIDE LIGHT FIXTURES CERTIFIED FOR WET ENVIRONMENTS
3 ATTIC ACCESS HATCH (CONFIRM REQUIREMENT W/ OWNER)

CEILING FIXTURE LEGEND:

	RECESSED LED POT LIGHT		WALL MOUNTED SCONCE LIGHT (MOUNTED @ 6'-6" A.F.F.)
	WALL MOUNTED EXTERIOR LIGHT		BLACK-OUT ROLLERBLIND (WHITE)
	VANITY LIGHT		CEILING FAN



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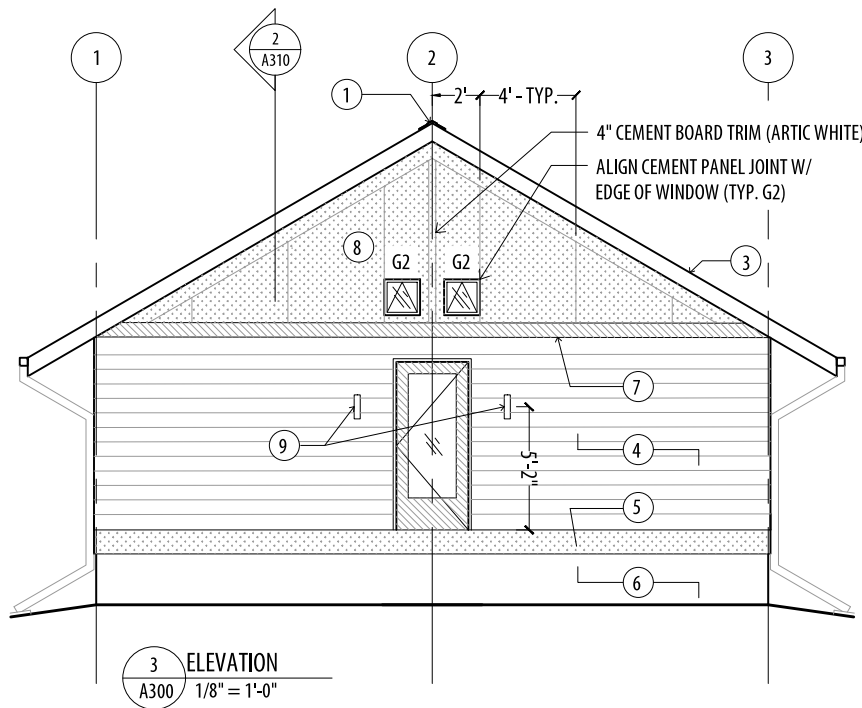
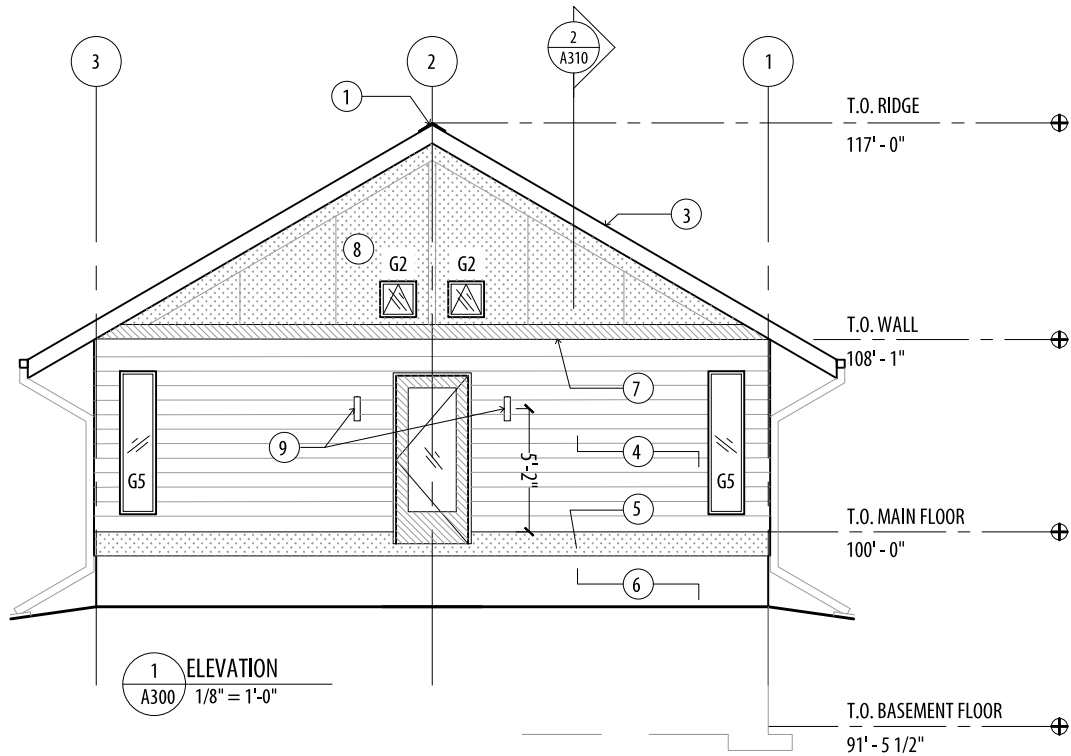
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REFLECTED CEILING PLAN

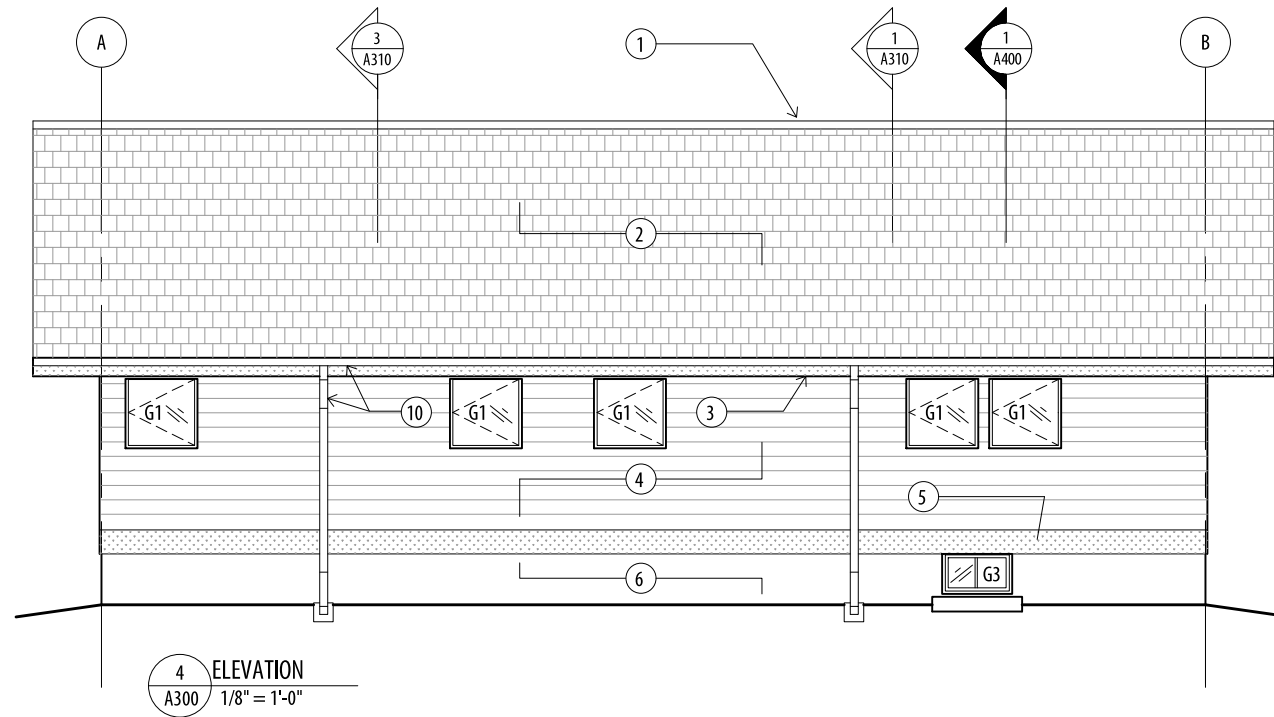
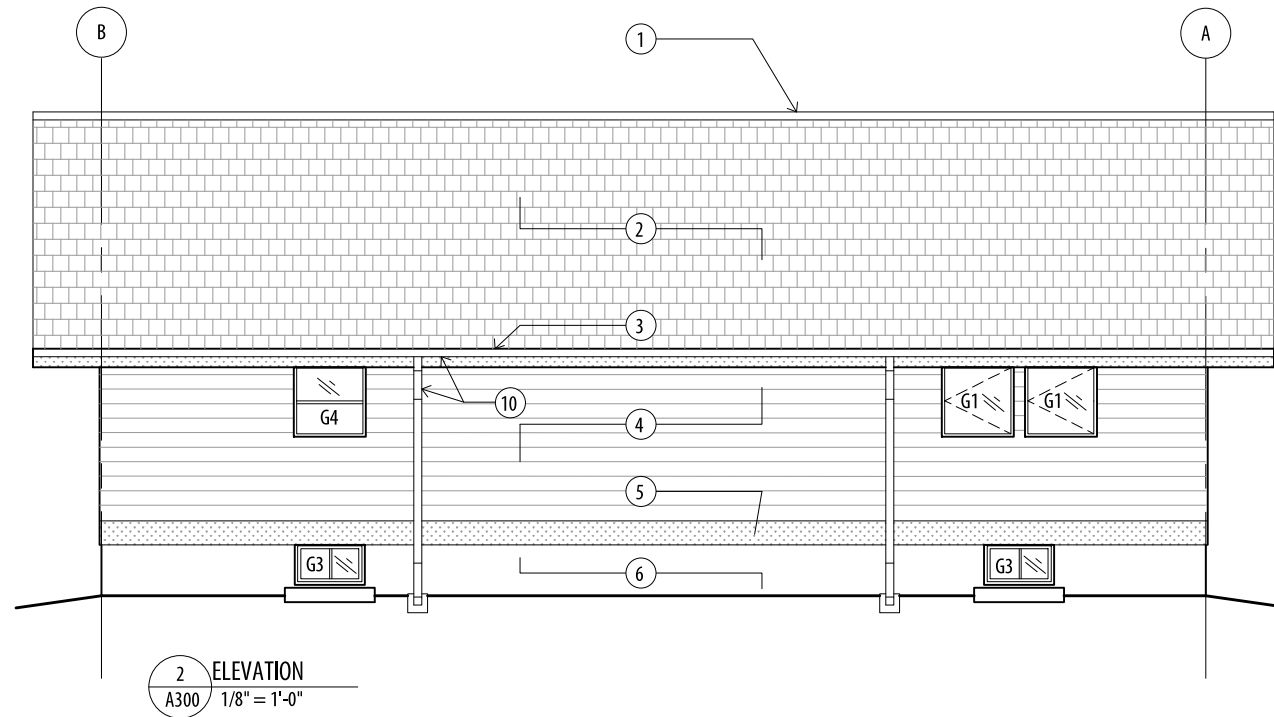
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92	A200	0



EXTERIOR FINISHES SCHEDULE:

- CONTINUOUS RIDGE VENT (COLOUR TO MATCH ROOFING)
- ASPHALT SHINGLES (CAMBRIDGE AR - CHARCOAL GREY)
- CEMENT BOARD FASCIA - JAMES HARDIE (IRON GREY)
- 5/16 JAMES HARDIE SMOOTH LAP SIDING (IRON GREY)
- CEMENT BOARD RIB JOIST TRIM - JAMES HARDIE PANEL (ARTIC WHITE)
- EXPOSED CONCRETE FOUNDATION
- ALUMINUM TRIM - 6" V-GROOVE LONGBOARD ALUM. SIDING (LIGHT FIR)
- CEMENT BOARD LARGE FORMAT PANELS - JAMES HARDIE (ARTIC WHITE)
- FASTENERS TO BE 1-3/4" #10 STAINLESS STEEL TRUSS HEAD SCREWS
- EXTERIOR LIGHT FIXTURE (REFER TO ELEC.)
- RAINWATER GUTTER & DOWNSPOUT (COLOUR TO MATCH IRON GREY CEMENT BOARD)



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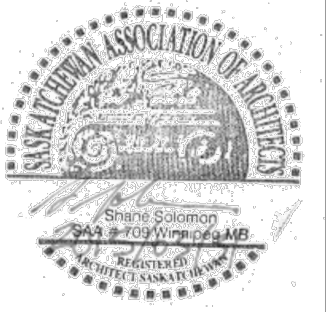
Client

Drawing title

ELEVATIONS

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	A300	0



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2	100% Construction Docs	15/03/31
1	75% Construction Docs	15/03/03
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Revision	Description	Date

Client

Project title

2 SITES @ Carrot River, SK

RTM DESIGN

Approved by

Designed by
REPUBLIC ARCHITECTURE INC

Drawn by
BP

Project Manager
RD

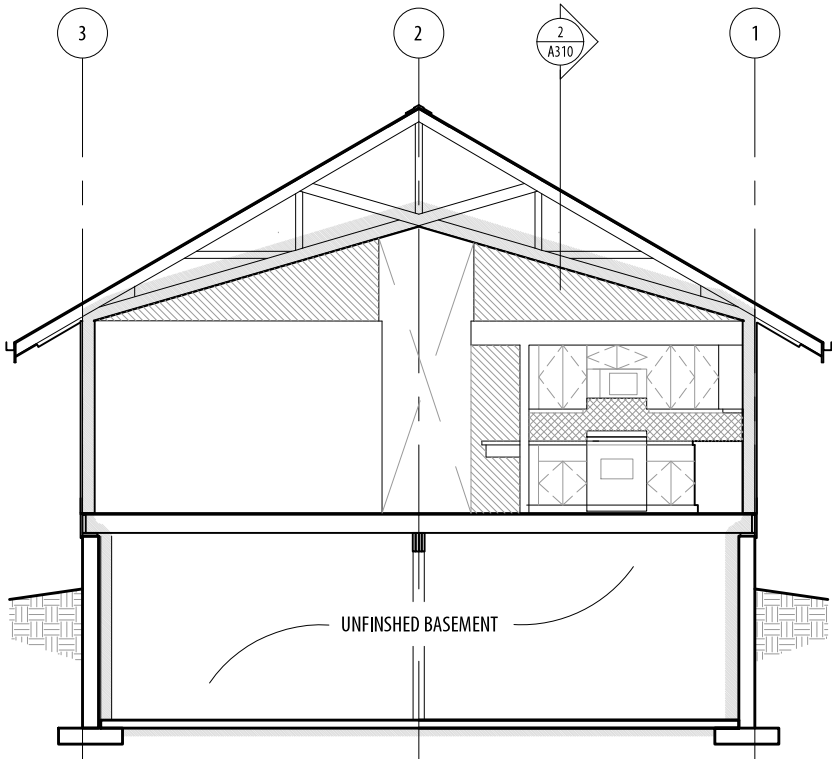
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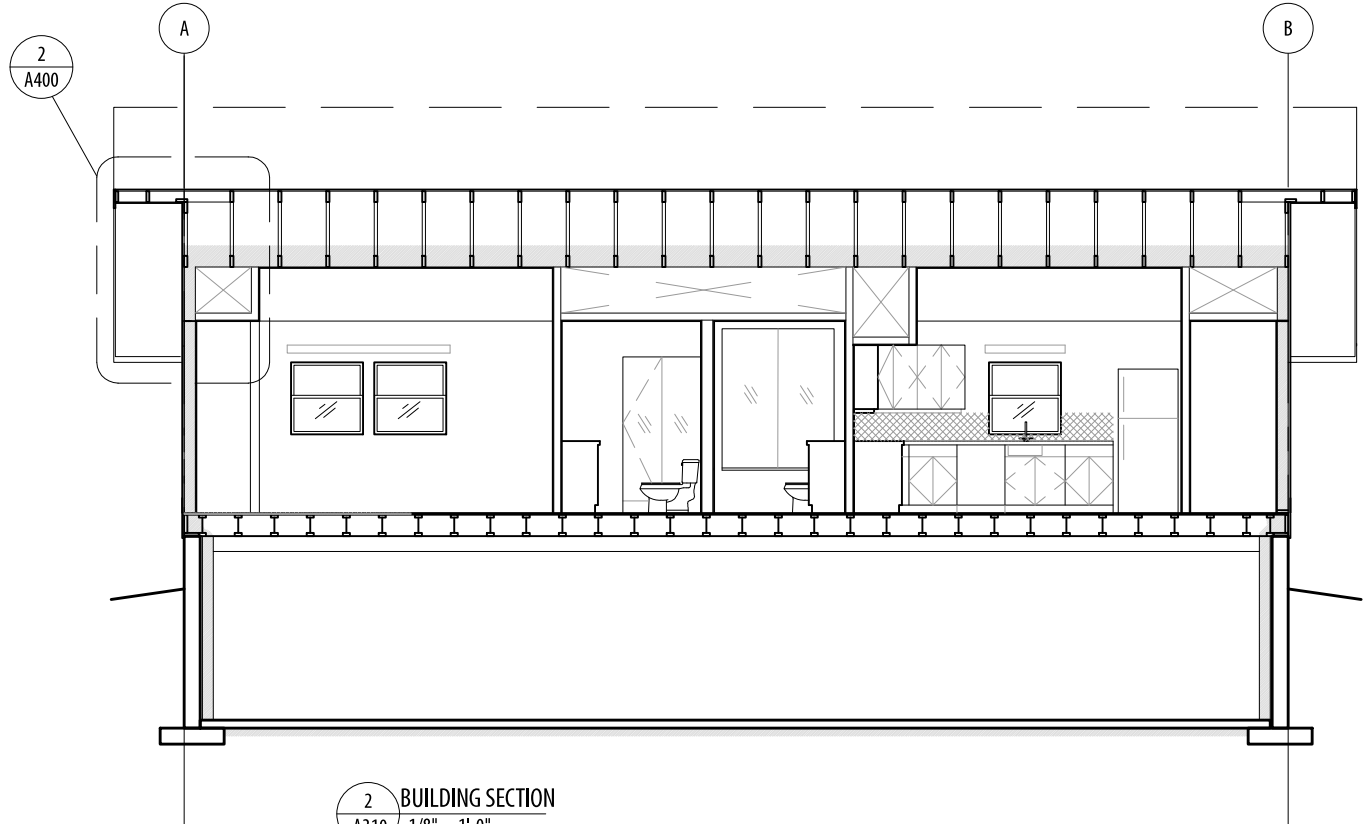
BUILDING SECTIONS

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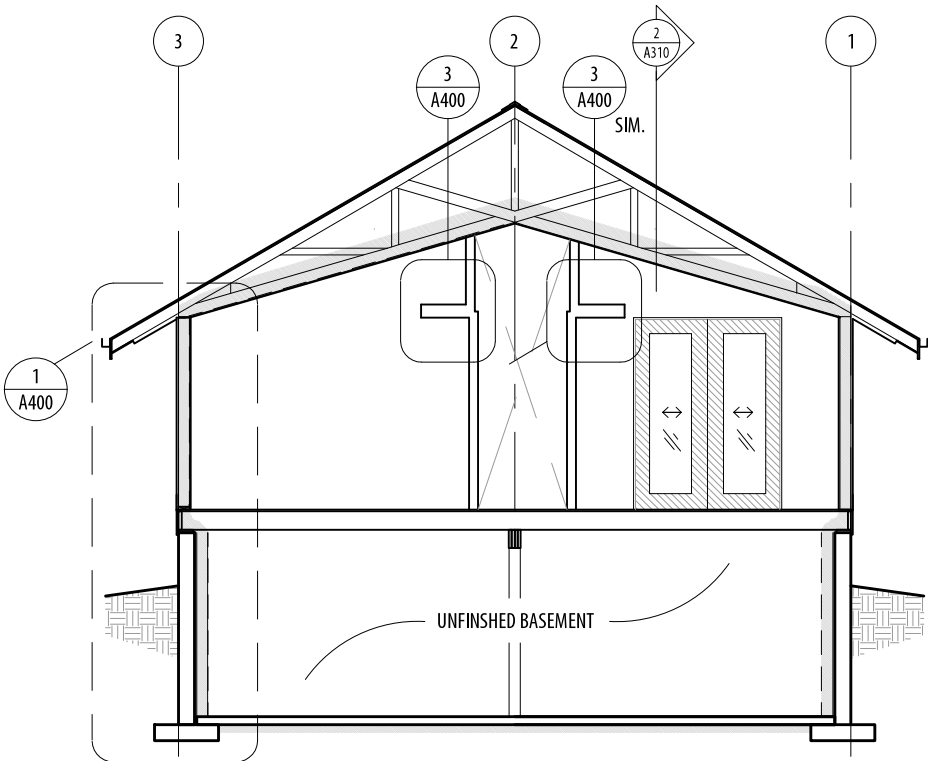
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92	A310	0



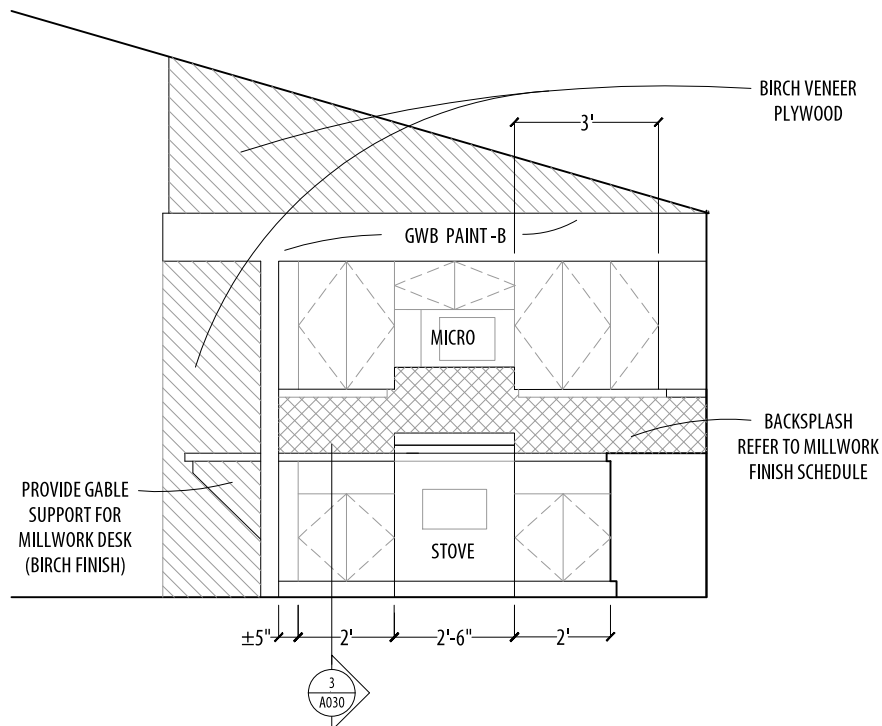
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A310 1/8" = 1'-0"



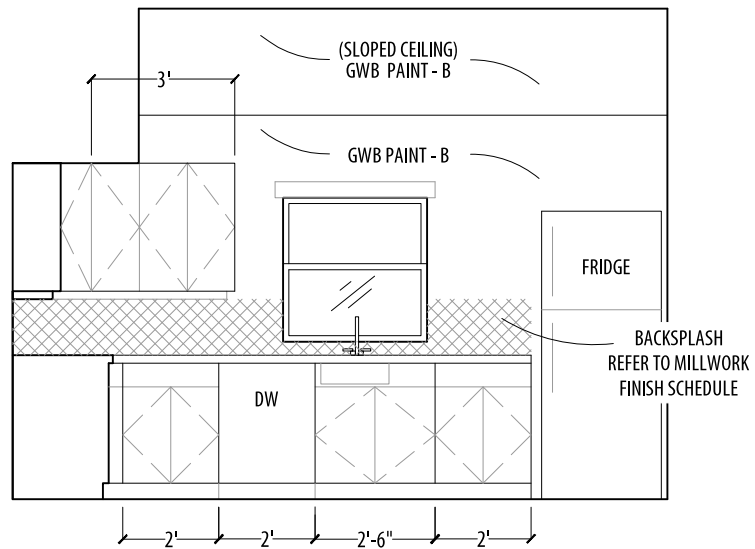
2 BUILDING SECTION
A310 1/8" = 1'-0"



3 BUILDING SECTION
A310 1/8" = 1'-0"



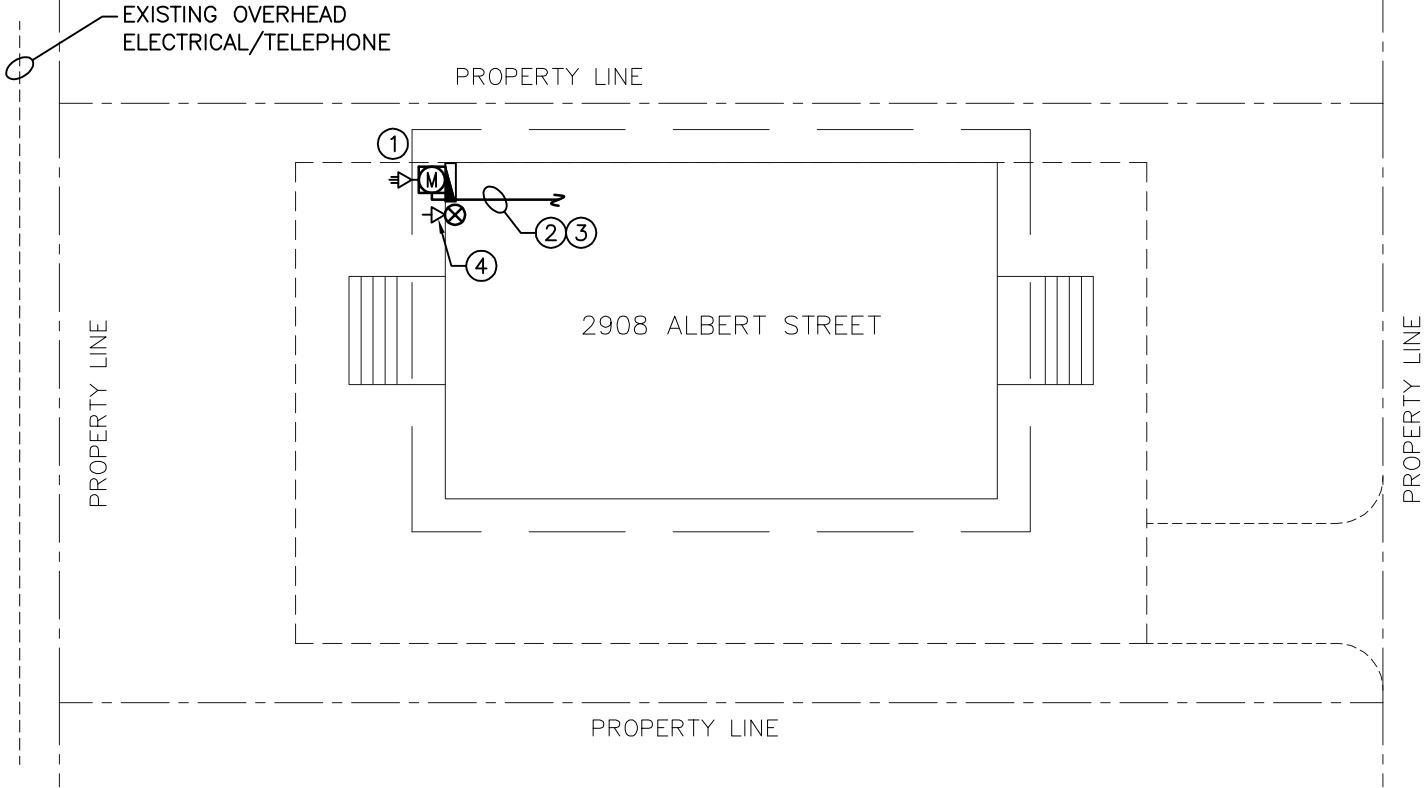
4 INTERIOR ELEVATION
A310 1/4" = 1'-0"



5 INTERIOR ELEVATION
A310 1/4" = 1'-0"

PUBLIC LANE

ALBERT STREET



GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING EXACT LAYOUT, ROUTING, ETC. VERIFY EXISTING SERVICES ON SITE.
- CONTRACTOR SHALL ENSURE COORDINATION BETWEEN ALL TRADES AND CONSULTANT, ON AND OFF SITE, AS REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT.
- CONFIRM ALL EXTERIOR EQUIPMENT LOCATIONS WITH ARCHITECT PRIOR TO TRENCHING.
- PROVIDE LIQUID TIGHT CONNECTORS ON ALL OUTDOOR CONDUITS.

KEYNOTES

- PROVIDE NEW OVERHEAD MAST FOR NEW HYDRO SERVICE. CONTRACTOR TO CONFIRM EXACT LOCATION OF METER PRIOR TO INSTALLATION OF THE OVERHEAD MAST.
- ELECTRICAL CONTRACTOR TO WIRE AND INSTALL FEEDER FROM METER TO NEW PANEL 'A'. CABLE SHALL RUN ALONG EXTERIOR WALL AN ENTER INTO BASEMENT BELOW GRADE.
- NEW PANELBOARD SHALL BE GROUNDED. REFER TO DETAIL ON DRAWING E500.
- PROVIDE NEW OVERHEAD MAST FOR NEW TELEPHONE SERVICE. CONTRACTOR TO CONFIRM EXACT LOCATION PRIOR TO INSTALLATION OF OVERHEAD MAST.

SMS ENGINEERING

SMS Engineering Ltd. Consulting Engineers
770 Bradford Street Winnipeg MB Canada R3H 0N3
Telephone 204.775.0291 Fax 204.772.2153
sms@smseng.com

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1	ISSUED FOR CONSTRUCTION	15/03/27
0	ISSUED FOR 75%	15/03/03
Revision	Description	Date

Client

Real Property

Project title

Carrot River, SK

RTM DESIGN

Approved by
GW

Designed by
GW

Drawn by
KAM

Project Manager
GW

Client

Drawing title

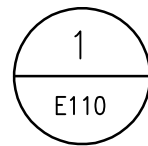
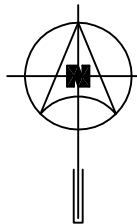
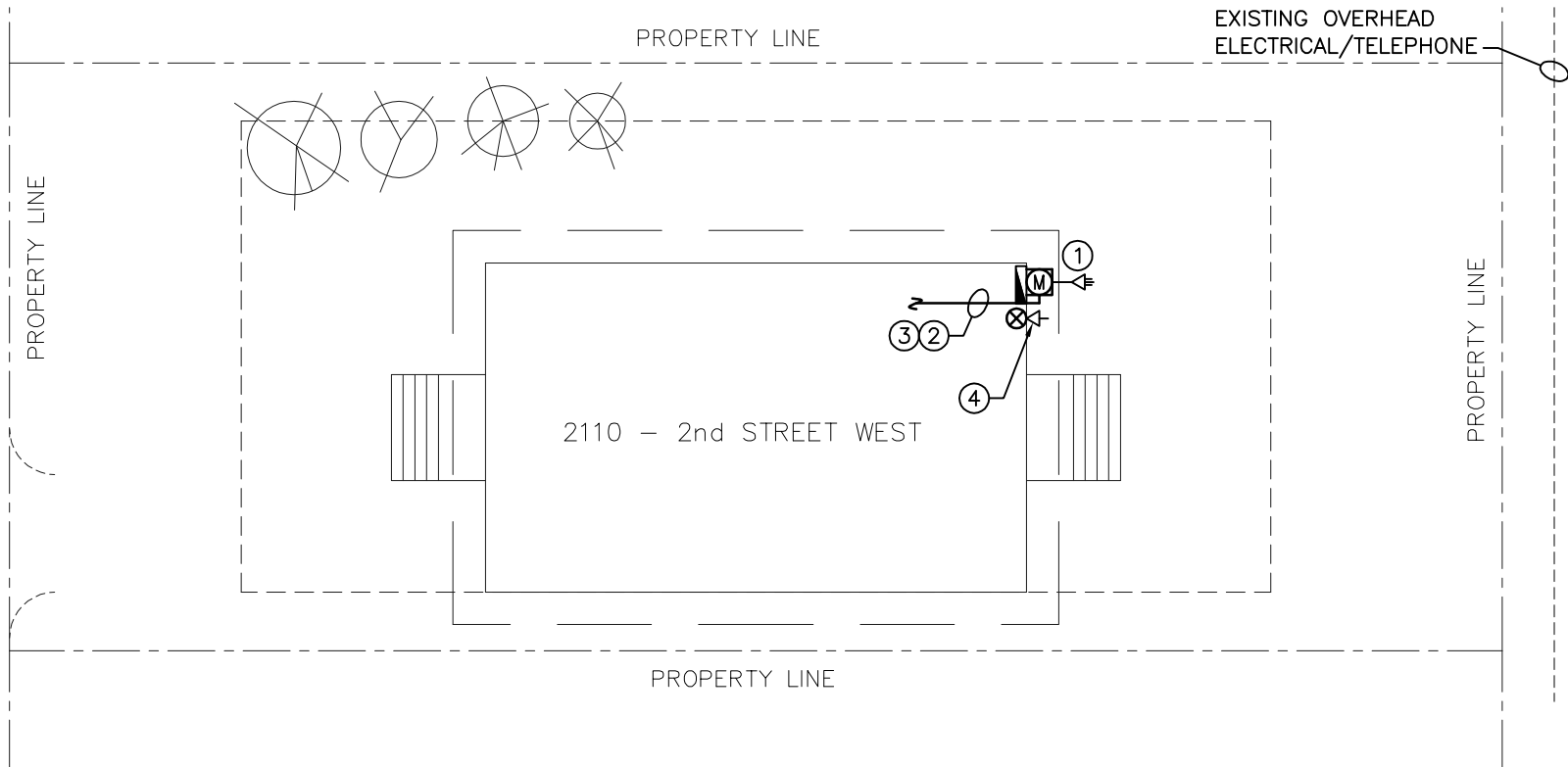
SITE PLAN
— ELECTRICAL

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	E100	1



2nd STREET WEST



SITE PLAN - ELECTRICAL

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

KEYNOTES

1. PROVIDE NEW OVERHEAD MAST FOR NEW HYDRO SERVICE. CONTRACTOR TO CONFIRM EXACT LOCATION OF METER PRIOR TO INSTALLATION OF THE OVERHEAD MAST.
2. ELECTRICAL CONTRACTOR TO WIRE AND INSTALL FEEDER FROM METER TO NEW PANEL 'A'. CABLE SHALL RUN ALONG EXTERIOR WALL AN ENTER INTO BASEMENT BELOW GRADE.
3. NEW PANELBOARD SHALL BE GROUNDED. REFER TO DETAIL ON DRAWING E500.
4. PROVIDE NEW OVERHEAD MAST FOR NEW TELEPHONE SERVICE. CONTRACTOR TO CONFIRM EXACT LOCATION PRIOR TO INSTALLATION OF OVERHEAD MAST.

GENERAL NOTES

- A. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING EXACT LAYOUT, ROUTING, ETC. VERIFY EXISTING SERVICES ON SITE.
- B. CONTRACTOR SHALL ENSURE COORDINATION BETWEEN ALL TRADES AND CONSULTANT, ON AND OFF SITE, AS REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT.
- C. CONFIRM ALL EXTERIOR EQUIPMENT LOCATIONS WITH ARCHITECT PRIOR TO TRENCHING.
- D. PROVIDE LIQUID TIGHT CONNECTORS ON ALL OUTDOOR CONDUITS.

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SMS Engineering Ltd. Consulting Engineers
770 Bradford Street Winnipeg MB Canada R3H 0W3
Telephone 204.775.0291 Fax 204.772.2153
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Revision	Description	Date

Client

Real Property

Project title

Carrot River, SK

RTM DESIGN

Approved by
GW

Designed by
GW

Drawn by
KAM

Project Manager
GW

Client

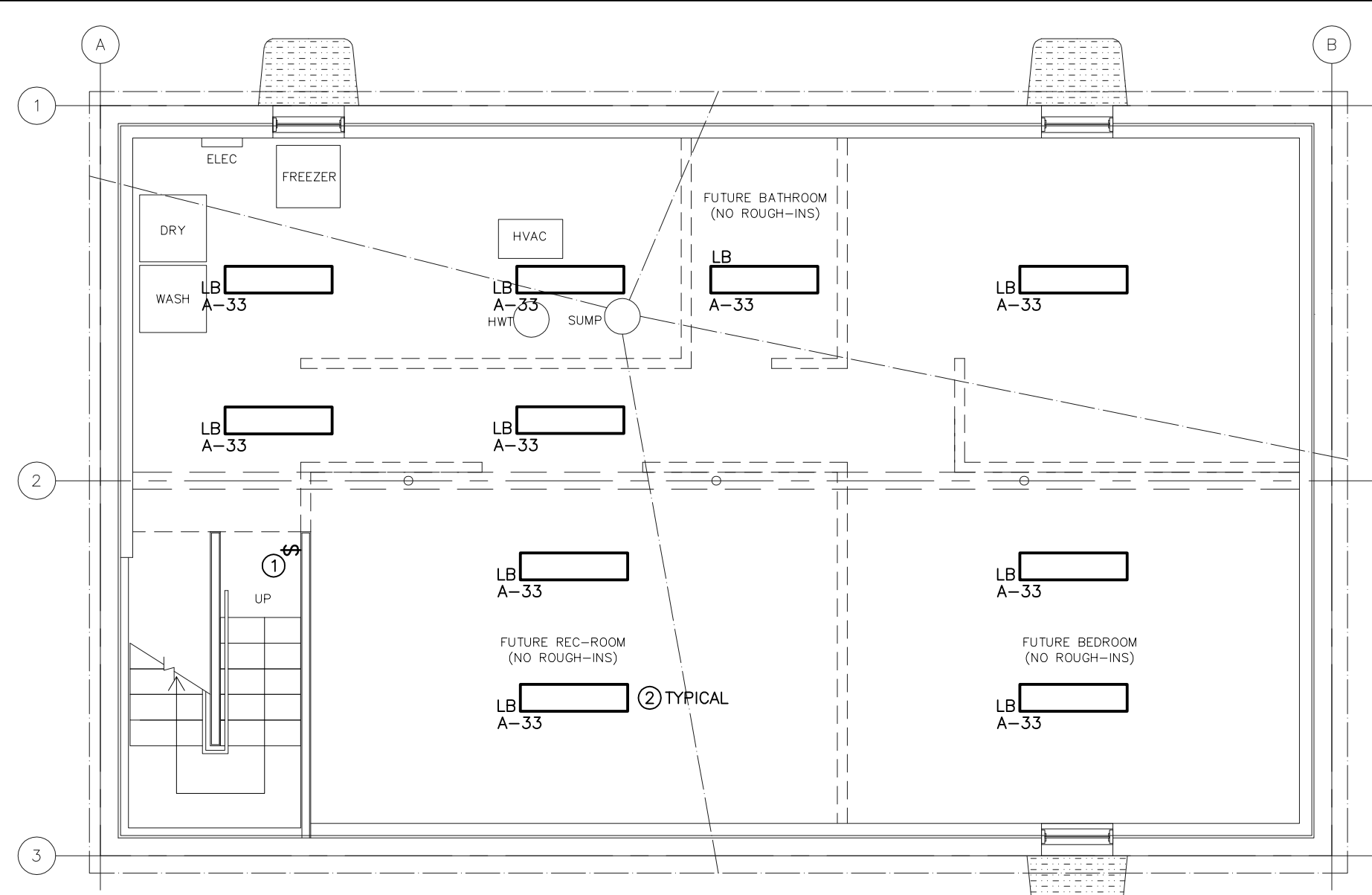
Drawing title

SITE PLAN
— ELECTRICAL

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	E110	1





GENERAL NOTES

- A. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING EXACT LAYOUT, ROUTING, ETC. VERIFY EXISTING SERVICES ON SITE.
- B. CONTRACTOR SHALL ENSURE COORDINATION BETWEEN ALL TRADES AND CONSULTANT, ON AND OFF SITE, AS REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT.
- C. CONTRACTOR SHALL PROVIDE FIVE SPARE LAMPS FOR EACH NEW LIGHT FIXTURE TYPE. STORE FIXTURES IN MECH/ELEC ROOM IN SUITABLE CONTAINER.

KEY NOTES

- 1. SUPPLY, WIRE AND INSTALL NEW 120V LIGHT SWITCH.
- 2. SUPPLY, WIRE AND INSTALL NEW LIGHT FIXTURES. PROVIDE NEW 15A CIRCUIT IN PANEL A. WIRING TO BE 14/2 NMD90.

1 BASEMENT PLAN - LIGHTING
SCALE: 3/16"=1'-0"

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SMS Engineering Ltd. Consulting Engineers
770 Bradford Street Winnipeg MB Canada R3H 0W3
Telephone 204.775.0291 Fax 204.772.2153
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Real Property

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Carrot River, SK

RTM DESIGN

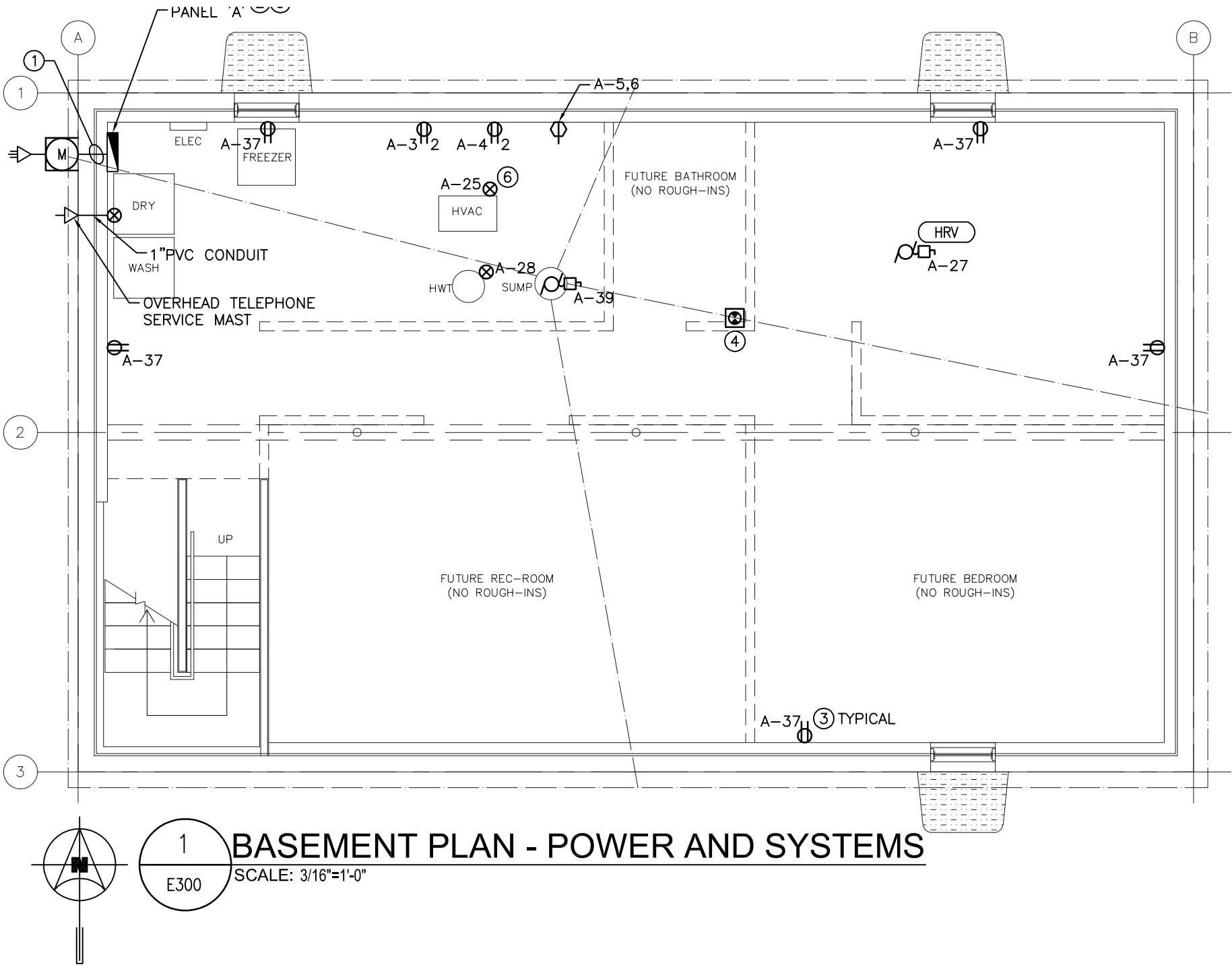
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GW
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Drawing title
BASEMENT PLAN
— LIGHTING

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	E200	1





BASEMENT PLAN - POWER AND SYSTEMS

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

GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING EXACT LAYOUT, ROUTING, ETC. VERIFY EXISTING SERVICES ON SITE.
- CONTRACTOR SHALL ENSURE COORDINATION BETWEEN ALL TRADES AND CONSULTANT, ON AND OFF SITE, AS REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT.
- CONFIRM ALL ELECTRICAL REQUIREMENT FOR EQUIPMENT NOT IN CONTRACT PRIOR TO ROUGH-IN.
- EXACT LOCATIONS OF ALL POWER & SYSTEM DEVICES/OUTLETS TO BE CONFIRMED ON SITE WITH ARCHITECT PRIOR TO ROUGH-IN.
- CONTRACTOR TO REVIEW HEIGHTS AND PLACEMENT OF OUTLETS. SHOULD THERE BE ANY CONFUSION OR DISCREPANCIES IT WILL BE THE RESPONSIBILITY OF DIVISION 16 TO CLARIFY WITH THE ARCHITECT PRIOR TO INSTALLATION.
- PROVIDE LIQUID TIGHT CONNECTORS ON ALL OUTDOOR CONDUITS.
- FIRE STOP ALL PENETRATIONS.

KEYNOTES

- ELECTRICAL CONTRACTOR TO PROVIDE WIRE AND INSTALL FEEDER FROM METER TO NEW PANEL 'A'. CABLE TO RUN AT HIGH LEVEL TO PANEL. SECURE WITH STEEL STRAPS.
- SUPPLY, WIRE AND INSTALL 120/240V/1 ϕ /3W 100A PANELBOARD IN MECH/ELEC ROOM.
- SUPPLY, WIRE AND INSTALL NEW DUPLEX RECEPTACLE. WIRE WITH MINIMUM 14/2 NMD90. REFER TO PANEL SCHEDULE FOR BREAKER SIZES.
- SUPPLY AND INSTALL NEW COMBINATION INTERCONNECTED CO AND SMOKE ALARM. WIRE AND CONNECT TO LIGHT CIRCUIT SERVING EACH AREA.
- NEW PANELBOARD SHALL BE GROUNDED. PROVIDE GROUND RODS AS REQUIRED. REFER TO DETAIL ON DRAWING E500.
- PROVIDE 120V SERVICE FOR CONTROLS TO GAS POWERED MECHANICAL EQUIPMENT. WIRE WITH MINIMUM 14/2 NMD90. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

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SMS Engineering Ltd. Consulting Engineers
770 Bradford Street Winnipeg MB Canada R3H 0W3
Telephone 204.775.0291 Fax 204.772.2153
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Revision	Description	Date

Client

Real Property

Project title

Carrot River, SK

RTM DESIGN

Approved by
GW

Designed by
GW

Drawn by
KAM

Project Manager
GW

Client

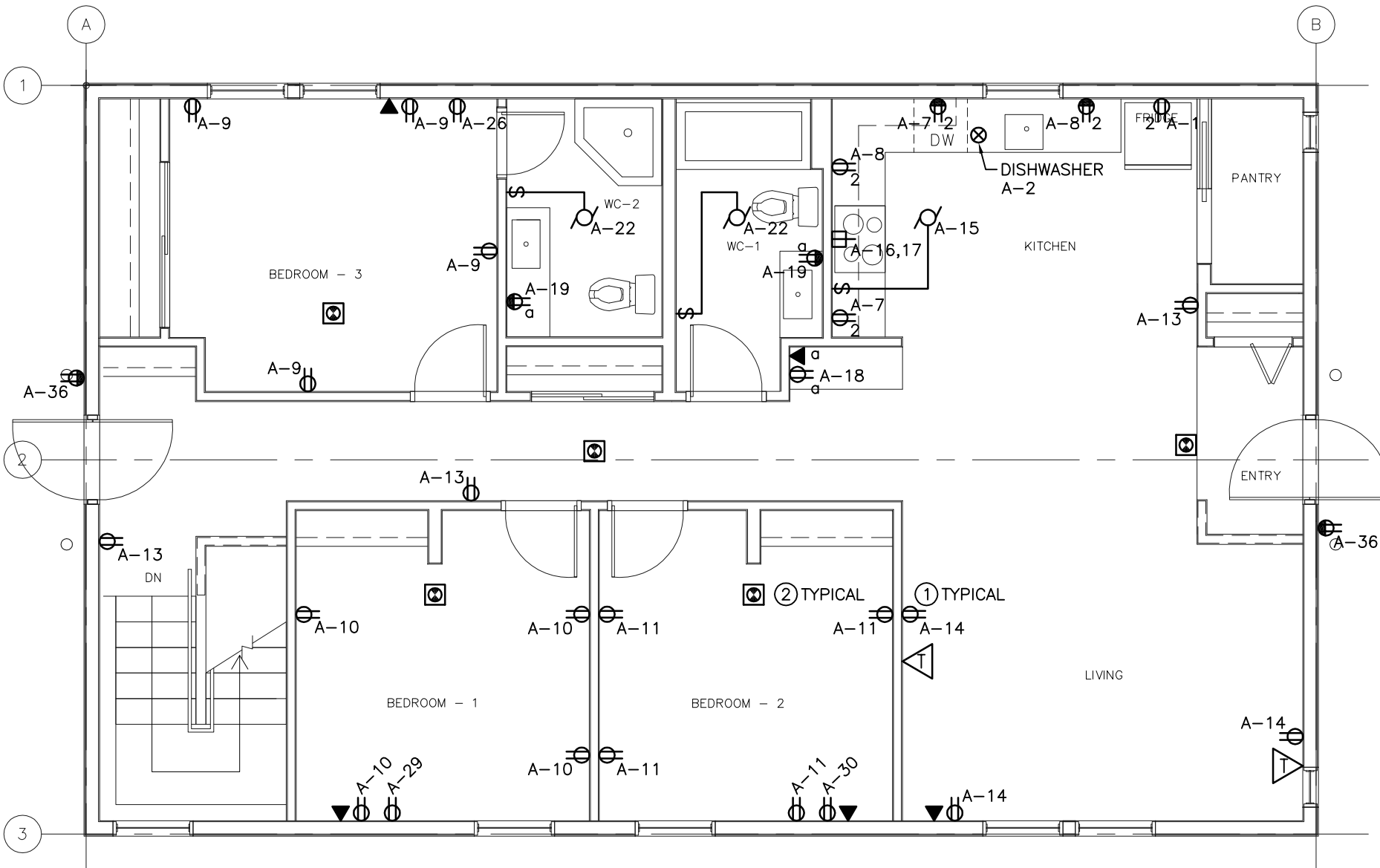
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BASEMENT PLAN
— POWER AND SYSTEMS

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	E300	1





GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING EXACT LAYOUT, ROUTING, ETC. VERIFY EXISTING SERVICES ON SITE.
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- CONFIRM ALL ELECTRICAL REQUIREMENT FOR EQUIPMENT NOT IN CONTRACT PRIOR TO ROUGH-IN.
- CONFIRM ALL EXTERIOR EQUIPMENT LOCATIONS WITH ARCHITECT PRIOR TO TRENCHING.
- EXACT LOCATIONS OF ALL POWER & SYSTEM DEVICES/OUTLETS TO BE CONFIRMED ON SITE WITH ARCHITECT PRIOR TO ROUGH-IN.
- CONTRACTOR TO REVIEW HEIGHTS AND PLACEMENT OF OUTLETS. SHOULD THERE BE ANY CONFUSION OR DISCREPANCIES IT WILL BE THE RESPONSIBILITY OF DIVISION 16 TO CLARIFY WITH THE ARCHITECT PRIOR TO INSTALLATION.
- PROVIDE LIQUID TIGHT CONNECTORS ON ALL OUTDOOR CONDUITS.
- FIRE STOP ALL PENETRATIONS.
- EXTERIOR DUPLEX RECEPTACLES TO BE RECESSED.

KEYNOTES

- SUPPLY, WIRE AND INSTALL NEW DUPLEX RECEPTACLE. WIRE WITH MINIMUM 14/2 NMD90. REFER TO PANEL SCHEDULE FOR BREAKER SIZES.
- SUPPLY AND INSTALL NEW COMBINATION INTERCONNECTED CO AND SMOKE ALARM. WIRE AND CONNECT TO LIGHT CIRCUIT SERVING EACH AREA.

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KAM

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GW

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Drawing title

MAIN FLOOR PLAN
— POWER AND SYSTEMS

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	E310	1



ELECTRICAL SPECIFICATION

SECTION 16010 ELECTRICAL GENERAL PROVISIONS

- 1
- GENERAL
- .1

PROVIDE ALL MATERIALS, LABOUR, PLANT AND EQUIPMENT NECESSARY TO MAKE A COMPLETE INSTALLATION AS DESCRIBED AND SHOWN. THIS INSTALLATION SHALL BE LEFT COMPLETE AND READY FOR OPERATION.
- .2

THE ENTIRE INSTALLATION SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY THE OWNER. REPLACE AT NO ADDITIONAL COST ANY WORK OR MATERIAL WHICH MAY FAIL OR PROVE DEFECTIVE DURING THE GUARANTEE PERIOD.
- .3

THE INSTALLATION SHALL CONFORM IN EVERY RESPECT TO THE RULES AND REGULATIONS OF THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE AND ALL LOCAL CODES. ALL WORK SHALL BE UNIFORM AND HIGH QUALITY. ALL EQUIPMENT SUPPLIED UNDER THIS CONTRACT SHALL BE NEW AND BUILT IN ACCORDANCE WITH EEMAC STANDARDS, SHALL BE CSA CERTIFIED OR CERTIFIED BY AN EQUIVALENT RECOGNIZED CERTIFYING AGENCY TO MEET CANADIAN STANDARDS AND LOCALLY APPROVED. ELECTRICAL EQUIPMENT CONSISTING OF INDIVIDUAL CERTIFIED COMPONENTS MUST ALSO HAVE A CSA OR EQUIVALENT CERTIFICATION FOR THE ENTIRE ASSEMBLY. PROVIDE INSPECTION CERTIFICATE UPON COMPLETION OF THE WORK.
- .4

CAREFULLY EXAMINE ALL PLANS AND SPECIFICATIONS PERTAINING TO THIS CONTRACT AND VISIT SITE TO DETERMINE ALL FACTORS AFFECTING COSTS AND INCLUDE SAME IN TENDER. NOTIFY ENGINEER OF DISCREPANCIES OR CONFLICTS WITH ANY REGULATION BEFORE SUBMITTING PRICE. FAILING SUCH NOTIFICATION, THIS CONTRACTOR SHALL MEET ALL SUCH REQUIREMENTS WITHOUT EXTRA COST TO THE OWNER.
- .5

OBTAIN ALL NECESSARY PERMITS, PAY ALL NECESSARY FEES, GIVE ALL NECESSARY NOTICES AND OBTAIN APPROVAL OF THE ELECTRICAL AUTHORITIES HAVING JURISDICTION.
- 2
- SHOP DRAWINGS
- .1

SUBMIT ELECTRONIC COPIES OF SHOP DRAWINGS FOR ALL EQUIPMENT.
- .2

FOR SHOP DRAWING’S SUBMITTED ELECTRONICALLY, INCLUDE PROJECT NAME IN SUBJECT LINE OF E–MAIL TO CONTRACTADMIN@SMSENG.COM.
- .3

EQUIPMENT PROPOSED SHALL MEET THE SAME STANDARDS OF PERFORMANCE, QUALITY AND WORKMANSHIP AS THAT SPECIFIED.
- .4

SHOP DRAWINGS TO BE REVIEWED AND STAMPED BY THE TRADE AND GENERAL CONTRACTOR.
- 3
- REQUEST FOR INTERPRETATION (RFI)
- .1

FOR RFI’S SUBMITTED ELECTRONICALLY, INCLUDE PROJECT NAME AND RFI NUMBER IN SUBJECT LINE OF E–MAIL. SEND RFI’S TO CONTRACTADMIN@SMSENG.COM.
- .2

CONTENT OF THE RFI: INCLUDE A DETAIL DESCRIPTION OF THE ITEM NEEDING INTERPRETATION AND PROPOSED SOLUTION.

SECTION 16100 ELECTRICAL MATERIALS AND INSTALLATION

- 1
- WIRING METHOD
- .1

FOR GENERAL PURPOSE WIRING:
NON–METALLIC SHEATHED CABLE: NMD 90

.1

NON–METALLIC SHEATHED COPPER CABLE TYPE: NMD 90, SIZE AS INDICATED.

.2

TWO OR THREE COPPER CONDUCTORS, WITH 90° XLPE (R90) INSULATION.

.3

BARE BONDING WIRE AND OVERALL JACKET OF MOISTURE RESISTANT FLAME RETARDANT PVC, WITH FT1 RATING.

.4

RATED 300 VOLTS.

.5

LEAD FREE.

.2

FOR OUTDOOR WIRING USE TECK TYPE CONDUCTORS. PVC CONDUIT AND RW90 CONDUCTORS MAY BE USED ONLY WHERE NOTED ON THE DRAWINGS.

.3

FOR CONNECTION TO MOTORS AND MISCELLANEOUS MECHANICAL EQUIPMENT USE LIQUIDTIGHT FLEXIBLE CONDUIT.

.4

RUN ALL CONDUIT AND CABLE CONCEALED, PARALLEL AND PERPENDICULAR TO BUILDING LINES, STAPLED AND/OR CLIPPED IN A NEAT WORKMANLIKE MANNER.

.5

ALL CONDUCTORS SHALL BE COPPER. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG EXCEPT AS NOTED.

2

INSTALLATION OF NON–METALLIC SHEATHED CABLE:

.1

USE NON–METALLIC SHEATHED CABLE IN WOOD FRAME CONSTRUCTION ONLY.

.2

INSTALL STRAPS AND BOX CONNECTORS TO CABLES AS REQUIRED.

3

GROUNDING

.1

THE ENTIRE INSTALLATION SHALL BE GROUNDED IN CONFORMANCE TO THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE.

.2

CONNECT GROUND CONDUCTOR TO METALLIC DOMESTIC INCOMING WATER SERVICE.
- 4

BOXES

.1

OUTLET, JUNCTION AND SWITCH BOXES SHALL BE GALVANIZED STEEL AND SIZED ACCORDING TO THE ELECTRICAL CODE AND TO SUIT EACH APPLICATION.

.2

PROVIDE MOULDED BOX VAPOUR BARRIER: FACTORY MOULDED POLYETHYLENE BOX FOR USE WITH RECESSED ELECTRIC BOXES IN EXTERIOR WALLS.

.3

OUTLET BOXES SHOWN ON DRAWINGS AS BEING “BACK–TO–BACK” SHALL HAVE A MINIMUM OFFSET OF 200MM BETWEEN BOXES TO REDUCE SOUND TRANSMISSION.

5

WIRING DEVICES

.1

PROVIDE WIRING DEVICES FOR ALL OUTLETS AS REQUIRED AND INDICATED. COLOUR AND MOUNTING TO MATCH EXISTING.

.2

STANDARD OF ACCEPTANCE FOR DEVICES SHALL BE RESIDENTIAL GRADE:

.1

SINGLE POLE, 2–POLE, 3–WAY AND 4–WAY WALL MOUNTED GENERAL PURPOSE RESIDENTIAL GRADE SWITCHES. TYPE 15A 125VAC. ACCEPTABLE MANUFACTURERS: HUBBELL, BRYANT, LEVITON, COOPER.

.2

NEMA 5–15R 15A 125VAC RECEPTACLES SHALL BE U–GROUND PARALLEL SLOT SIDE WIRED AS FOLLOWS:

.1

GENERAL PURPOSE RESIDENTIAL GRADE DUPLEX. ACCEPTABLE MANUFACTURERS: HUBBELL, BRYANT, LEVITON, COOPER.

.3

COVERPLATES FOR DEVICES SHALL BE STAINLESS STEEL.

.4

RECEPTACLES OF CONFIGURATIONS 5–15R, 5–20R, 5–20RA, 6–15K AND 6–20RA WHERE EXPOSED TO WEATHER, SHALL BE PROVIDED WITH COVERPLATES SUITABLE FOR WET LOCATIONS WHETHER OR NOT A PLUS IS INSERTED INTO RECEPTACLE.

.1

APPROVED MANUFACTURERS:

.1

COOPER WIU01 (1 GANG), WIU–2 (2 GANG)

.2

APPLETON WCD1U1 (1 GANG), WCDIU2 (2 GANG)

.3

HUBBELL RW57300 (1 GANG), RW57750 (2 GANG)

.5

WEATHERPROOF COVER FOR SWITCH WITH GASKETS AS INDICATED.

6

LIGHTING SYSTEM – GENERAL

.1

PROVIDE FIXTURES EQUAL TO THOSE SPECIFIED WITH LAMPS, SUSPENSION HARDWARE, LENSES AND ALL OTHER ACCESSORIES REQUIRED TO COMPLETE THE INSTALLATION.

.2

REFER TO LUMINAIRE SCHEDULE FOR FIXTURE TYPE.

7

POWER DISTRIBUTION SYSTEM

.1

PROVIDE ALL BREAKERS, CONDUIT, DISCONNECTS, CONDUCTORS AND ACCESSORIES REQUIRED FOR THE INSTALLATION OF PANELBOARDS AS INDICATED ON THE DRAWING AND IN THIS SPECIFICATION.

.2

SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH SECTION 16010.

.3

DRAWINGS TO INCLUDE ELECTRICAL DETAIL OF PANEL, BRANCH BREAKER TYPE, QUANTITY, AMPACITY AND ENCLOSURE DIMENSION.

.4

IN ADDITION TO CSA REQUIREMENTS, MANUFACTURER’S NAMEPLATE MUST SHOW FAULT CURRENT THAT PANEL INCLUDING BREAKERS HAS BEEN BUILT TO WITHSTAND.

.5

PANELBOARDS: TO CSA C–22.2 NO. 29.

.6

PANELBOARDS: CUTLER HAMMER (WESTINGHOUSE), SCHNEIDER (FPE) SQUARE D AND SIEMENS.

.7

240V BRANCH CIRCUIT PANELBOARDS: BUS AND BREAKERS RATED FOR 10KA (SYMMETRICAL) INTERRUPTING CAPACITY MINIMUM OR AS INDICATED.

.8

SEQUENCE PHASE BUSSING SUCH THAT CIRCUIT BREAKERS WILL BE NUMBERED IN CONSECUTIVE ORDER, WITH EACH BREAKER IDENTIFIED BY PERMANENT NUMBER IDENTIFICATION AS TO CIRCUIT NUMBER AND PHASE.

.9

PANELBOARDS: MAINS, NUMBER OF CIRCUITS, AND NUMBER AND SIZE OF BRANCH CIRCUIT BREAKERS AS INDICATED.

.10

PROVIDE HINGED PANEL COVERS FOR ALL PANELBOARDS.

.11

COPPER BUS WITH NEUTRAL OF SAME AMPERE RATING AS MAINS.

.12

MAINS: SUITABLE FOR BOLT–ON 25MM WIDE BREAKERS.

.13

BREAKERS SHALL BE PRESS IN TYPE..

.14

PROVIDE BREAKERS AS INDICATED IN THE PANEL SCHEDULE AND AS INDICATED ON THE DRAWING.

.15

ALL NEW BREAKERS SHALL MATCH PANEL VOLTAGE UNLESS INDICATED OTHERWISE. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC TYPE.

.16

NAMEPLATE FOR EACH PANELBOARD 20 X 90MM ENGRAVED AS INDICATED.

.17

COMPLETE CIRCUIT DIRECTORY WITH TYPEWRITTEN LEGEND SHOWING LOCATION AND

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Client

Real Property

Project title

Carrot River, SK

RTM DESIGN

Approved by GW
Designed by GW
Drawn by KAM
Project Manager GW
Client

Drawing title

ELECTRICAL SPECIFICATION

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	E400	1

ANSI B

- .18 ACCEPTABLE MANUFACTURERS: GENERAC OR APPROVED EQUAL.
- .19 LOCATE PANELBOARDS AS INDICATED AND MOUNT SECURELY, PLUMB, TRUE AND SQUARE, TO ADJOINING SURFACES.
- .20 WIRING IN PANELBOARDS SHALL BE NEAT AND SET IN AS IF LACED. ALL NEUTRAL CONDUCTORS SHALL BE IDENTIFIED IN THE PANEL WITH THEIR ASSOCIATED CIRCUIT NUMBERS BY MEANS OF BRADY MARKERS.
- .21 INTERRUPTING CAPACITY OF NEW BREAKERS IN EXISTING PANELS SHALL MATCH EXISTING.

8 TELEPHONE SYSTEM

- .1 PRE-WIRE ALL TELEPHONE OUTLETS WITH CAT 3 (IN FREE AIR) TO MAIN TELEPHONE SERVICE ENTRANCE POINT.

9 MOUNTING HEIGHTS

- .1 MOUNTING HEIGHT IS CENTERLINE OF EQUIPMENT ABOVE FINISHED FLOOR. IF MOUNTING HEIGHT IS NOT INDICATED VERIFY BEFORE PROCEEDING WITH INSTALLATION. MOUNT SAME HEIGHT AS EXISTING IF DIFFERENT FROM THAT SHOWN HERE UNLESS INDICATED OTHERWISE ON DRAWING.
- .2 MOUNTING HEIGHTS:
 - .1 MOUNTING HEIGHT OF EQUIPMENT IS FROM FINISHED FLOOR TO CENTRE LINE OF EQUIPMENT UNLESS SPECIFIED OR INDICATED OTHERWISE.
 - .2 IF MOUNTING HEIGHT OF EQUIPMENT IS NOT SPECIFIED OR INDICATED, VERIFY BEFORE PROCEEDING WITH INSTALLATION.
 - .3 INSTALL ELECTRICAL EQUIPMENT AT FOLLOWING HEIGHTS UNLESS INDICATED OTHERWISE.
 - .1 LOCAL SWITCHES: 1200MM.
 - .2 WALL RECEPTACLES:
 - .1 GENERAL: 400MM.
 - .2 ABOVE TOP OF CONTINUOUS BASEBOARD HEATER: 200MM.
 - .3 ABOVE TOP OF COUNTERS OR COUNTER SPLASHBACK: 175MM.
 - .4 IN MECHANICAL ROOMS: 915MM.
 - .3 PANELBOARDS, ETC.: 2000MM TO TOP.
 - .4 VOICE/DATA AND INTERPHONE OUTLETS: 400MM.
 - .5 WALL MOUNTED TELEPHONE AND INTERPHONE OUTLETS: 1200MM.
 - .6 TELEVISION OUTLETS: 400MM.
 - .7 THERMOSTATS: 1200MM.
 - .8 SPEED CONTROLS: 1200MM.
 - .9 MANUAL STARTERS: 1200MM.
 - .10 AS PER ARCHITECTURAL ELEVATIONS.
 - .11 HEIGHTS AS ABOVE OR AT BOTTOM OF NEAREST BLOCK OR BRICK COURSE EXCEPT WHERE REQUIRED TO COMPLY WITH MANITOBA BUILDING CODE, OTHER APPLICABLE CODES, AUTHORITIES HAVING JURISDICTION, ETC.
 - .12 HEIGHTS TO MATCH EXISTING WHERE APPLICABLE EXCEPT WHERE REQUIRED TO COMPLY WITH MANITOBA BUILDING CODE, OTHER APPLICABLE CODES, AUTHORITIES HAVING JURISDICTION, ETC.



SMS Engineering Ltd. Consulting Engineers
770 Bradford Street Winnipeg MB Canada R3H 0N3
Telephone 204.775.0291 Fax 204.772.2153
14-317-02 sms@smseng.com

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T 204 989 0102
F 204 989 0094
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1	ISSUED FOR CONSTRUCTION	15/03/27
0	ISSUED FOR 75%	15/03/03
Revision	Description	Date

Real Property

Project title

Carrot River, SK

RTM DESIGN

Approved by GW

Designed by GW

Drawn by
KAM

Project Manager
GW

Client	
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Drawing title
ELECTRICAL SPECIFICATION

SCALE: AS NOTED

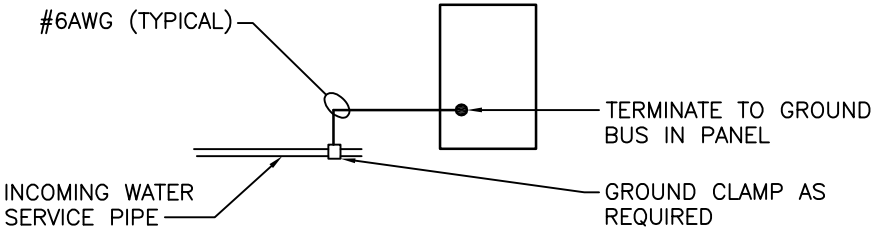
Project No.	Sheet	Revision no./
92	E410	1

PANEL: PANEL A							
FED FROM: MB HYDRO							
LOCATION: MECH/ELEC ROOM							
LOCATION: EXTERIOR							
Designation	Load (VA)	Ckt. Trip	bkr. No.	Phase	Ckt. No.	bkr. Trip	Load (VA)
FRIDGE	1000	20				15	
			1	A	22		500
DSHWASHER	800	15				15	
			2	B	23		500
FREEZER	1000	20				15	
			3	A	24		500
WASHER	1000	20				15	
			4	B	25		200
DRYER	2500	40				15	
			5	A	26		1000
	2500	2P				15	
			6	B	27		200
KITCHEN GFI	1R 800	20				15	
			7	A	28		200
KITCHEN GFI	1R 500	20				15	
			8	B	29		1000
BEDROOM REC.	4R 800	15				15	
		AFCI	9	A	30		1000
BEDROOM REC.	4R 800	15					
		AFCI	10	B	31		
BEDROOM REC.	4R 800	15					
		AFCI	11	A	32		
SPARE		15				15	
			12	B	33		500
HALLWAY	3R 600	15				15	
			13	A	34		
TV REC.	3R 500	15				15	
			14	B	35		
KITCHEN EXHAUST	400	15				20	
			15	A	36		1200
RANGE	3000	50				15	
			16	B	37		500
	3000	2P					
			17	A	38		
ABOVE COUNTER RECEPTACLE	200	15				15	
			18	B	39		200
GFI SINK REC.	2R 500	15					
			19	A	40		
			20	B	41		
			21	A	42		
VOLTAGE: 120/240V,1Ø,3W		LOADS -		PH.A		15800	
CAPACITY: 100A				PH.B		12400	
MOUNTING: SURFACE							
REMARKS: NEW				TOTAL		28200	

LUMINAIRE SCHEDULE



FIXT. TYPE	LAMPS	VOLTAGE	DESCRIPTION	NOTES
CA		120V	56" CEILING FAN ITEM #051106865 [RONA MODEL # 78814-1448]	
LB	1 F25 T8	120V	1 LAMP 4' STRIP SURFACE MOUNTED, COLOUR TEMP: 3000K	
VA	21W 1 LAMP	120V	KITCHEN UNDER CABINET COLOUR TEMP: 3000K	
VC	1-26W CFT	120V	RECESSED 1 LAMP FLUORESCENT POT LIGHT C/W CLEAR ALZAK REFLECTOR- WHITE TRIM RING. 6"- 6 1/2" Ø OPENING. COLOUR TEMP: 3000K	
WA	20-40W 5 LAMPS	120V	WALL LAMP CHROME PLATED 24"L, 3 1/4" D, 4 1/4"W	
WB	60W W12 LAMP	120V	WALL SCONCE ITEM #051083040 [RONA MODEL # 1023-11-WHT]	
XA	18W 1 LAMP	120V	EXTERIOR LIGHT FIXTURE WHITE ITEM # 051115217 [RONA MODEL # 81542BK]	



1

E500

GROUNDING DETAIL

SCALE: NTS



SMS Engineering Ltd. Consulting Engineers
770 Bradford Street Winnipeg MB Canada R3H 0N3
Telephone 204.775.0291 Fax 204.772.2153
sms@smseng.com

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374 Donald Street, First Floor
Winnipeg, MB R3B 2J2
T 204 989 0102
F 204 989 0094

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Revision	Description	Date

Client

Real Property

Project title

Carrot River, SK

RTM DESIGN

Approved by
GW

Designed by
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Drawn by
KAM

Project Manager
GW




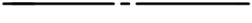
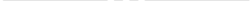










Client






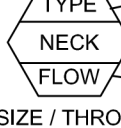

Drawing title

ELECTRICAL SCHEDULES

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	E500	1

PLUMBING LEGEND	
	SANITARY WASTE ABOVE FLOOR OR GRADE
	SANITARY WASTE BELOW FLOOR OR GRADE
	VENT LINE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	NATURAL GAS
	VENT THRU ROOF
	CLEANOUT
	ISOLATION VALVE
	FLOOR DRAIN
	PUMP
	TRAP
	PLUMBING FIXTURE DESIGNATION
	EQUIPMENT DESIGNATION OR PLUMBING RISER
	TAGS / NOTES / KITCHEN EQUIPMENT DESIGNATION FOR PLUMBING DRAWINGS

HVAC LEGEND	
	SUPPLY / MAKE-UP / OUTSIDE / COMBUSTION AIR DUCT
	RETURN AIR DUCT
	EXHAUST / RELIEF AIR DUCT
	THERMOSTAT
	SWITCH
	GRILLE / DIFFUSER TYPE NECK SIZE QUANTITY OR NUMBER OF FLOW RATE (CFM) FACE SIZE OR THROW
	TAGS / NOTES DESIGNATION FOR HVAC DRAWINGS

DRAWING LIST

- M000 DRAWING LIST AND SYMBOL LEGEND
- M100 SITE PLAN - MECHANICAL
- M110 SITE PLAN - MECHANICAL
- M200 BASEMENT PLAN - PLUMBING
- M210 MAIN FLOOR PLAN - PLUMBING
- M300 BASEMENT PLAN - HVAC
- M310 MAIN FLOOR PLAN - HVAC
- M400 MECHANICAL SPECIFICATION
- M410 MECHANICAL SPECIFICATION
- M500 MECHANICAL DETAILS

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SMS Engineering Ltd. Consulting Engineers
770 Bradford Street Winnipeg MB Canada R3H 0H3
Telephone: 204.775.0291 Fax: 204.772.2153
sms@smseng.com

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Client

Project site

Carrot River, SK

RTM DESIGN

Approved by
VSW

Designed by
JRB

Drawn by
GB

Project Manager
JRB

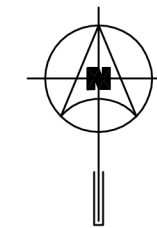
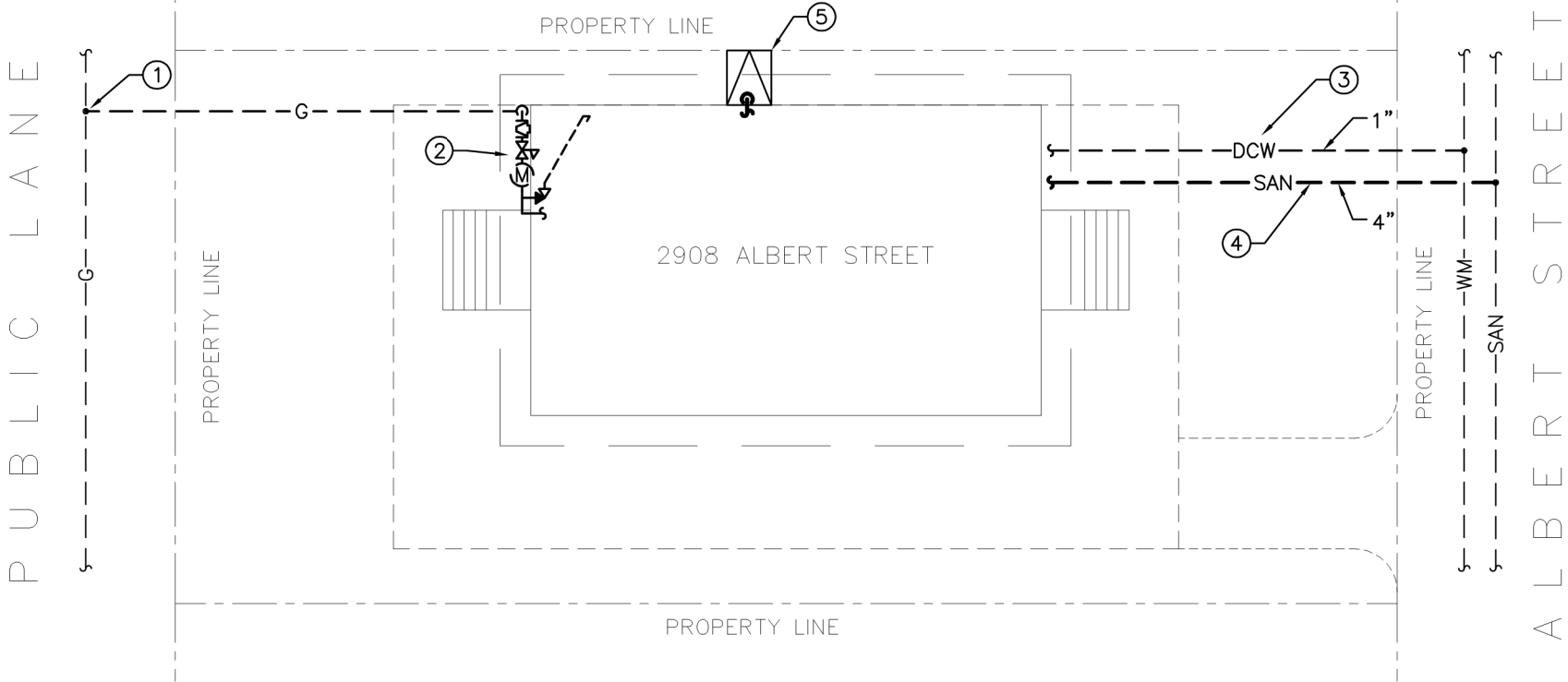
Client

Drawing title
DRAWING LIST AND
SYMBOL LEGEND

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	M000	I



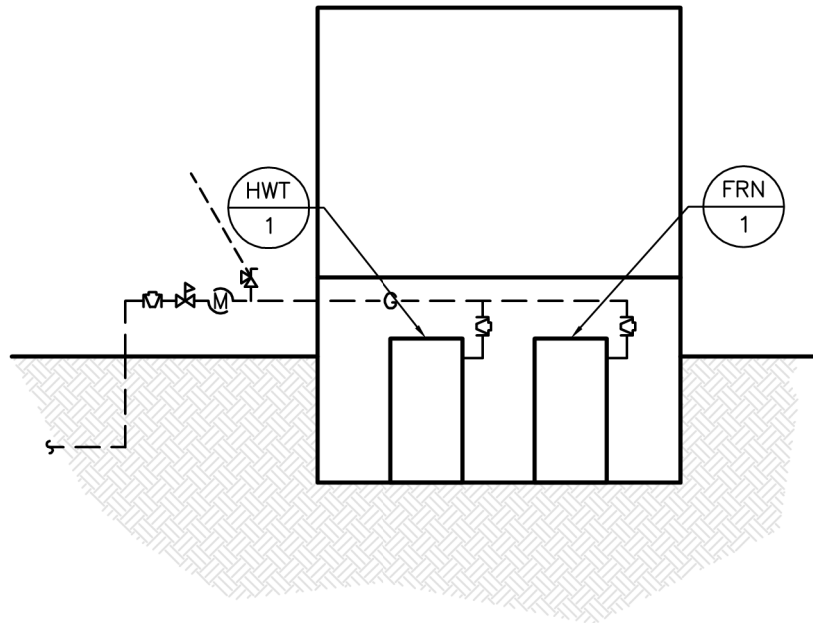


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M100

SITE PLAN - MECHANICAL

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

TAG	NAME	GAS LOAD (BTU/HR)
FRN-1	FURNACE	69,000
HWT-1	HOT WATER TANK	40,000
TOTAL		109,000



2
M100

GAS PIPING SCHEMATIC

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

GENERAL NOTES

- DRAWINGS ARE SCHEMATIC, DO NOT SCALE.
- CONTRACTOR SHALL VERIFY EXACT LOCATION AND DIMENSIONS OF SITE SERVICES PRIOR TO STARTING CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE CONSULTANT.

KEYNOTES

- NEW NATURAL GAS SERVICE BY SASK ENERGY. MECHANICAL CONTRACTOR TO COORDINATE. INCLUDE ALL FEES, PERMITS AND INSPECTIONS.
- NEW NATURAL GAS SHUT-OFF AND METER, ETC. BY SASK ENERGY. MECHANICAL CONTRACTOR TO COORDINATE. PROVIDE VENTING AS REQUIRED. PROVIDE PRV DOWN TO 7 INCHES. H₂O. CONCRETE BOLLARDS FOR PROTECTION BY GENERAL CONTRACTOR. REFER TO GAS PIPING SCHEMATIC AND SCHEDULE ON THIS DRAWING.
- NEW DOMESTIC COLD WATER SERVICE INTO BUILDING FROM MUNICIPAL WATER MAIN.
- NEW SANITARY SERVICE EXITING BUILDING. CONNECT TO MUNICIPAL SANITARY SEWER.
- SUMP PUMP DISCHARGE FROM BASEMENT. PIPE DISCHARGE OVER SPLASH PAD.

SMS ENGINEERING

SMS Engineering Ltd. Consulting Engineers
770 Bradford Street Winnipeg MB Canada R3H 0H3
Telephone: 204.775.0291 Fax: 204.772.2153
sms@smseng.com

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1	ISSUED FOR CONSTRUCTION	15/03/27
0	ISSUED FOR 75%	15/03/03
Revision	Description	Date

Client

Project title

Carrot River, SK

RTM DESIGN

Approved by
VSW

Designed by
JRB

Drawn by
GB

Project Manager
JRB

Client

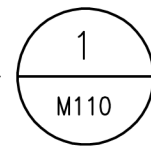
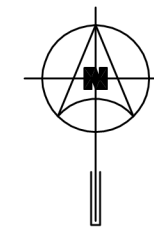
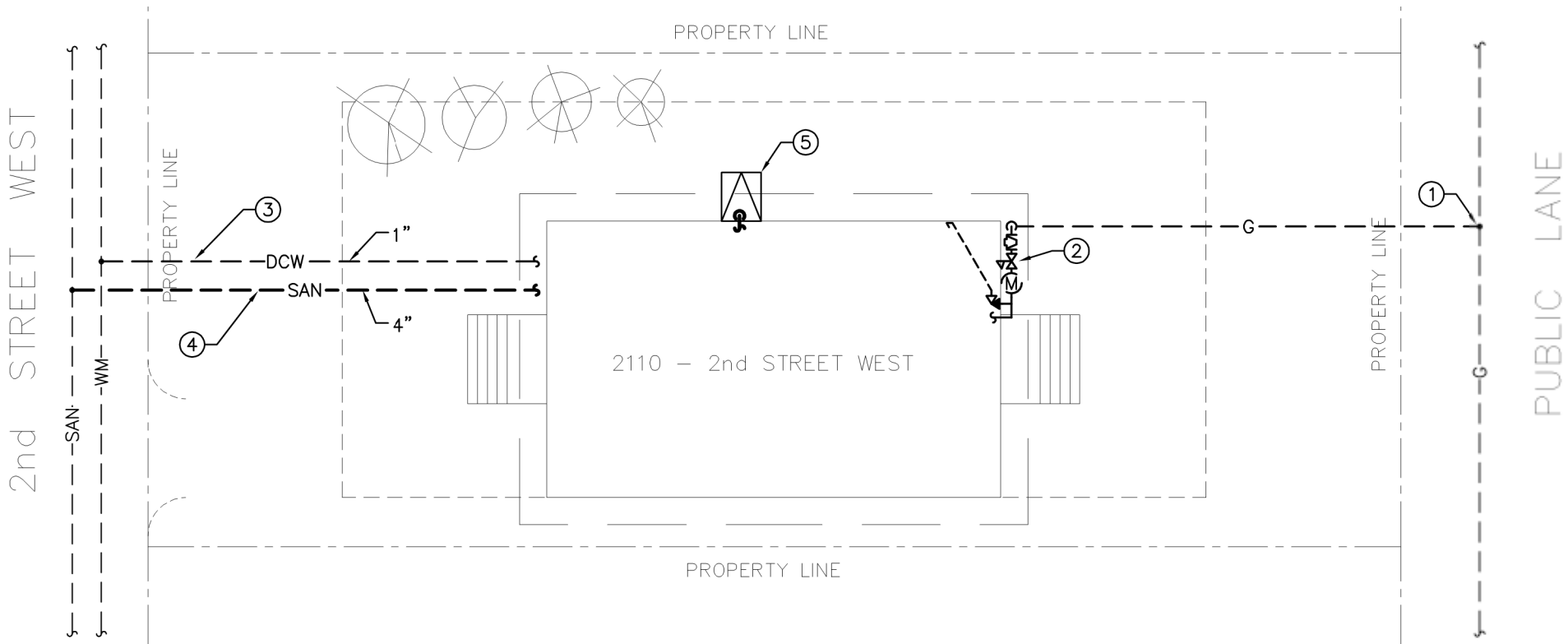
Drawing title

SITE PLAN
- MECHANICAL

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	M100	1

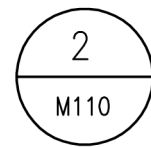
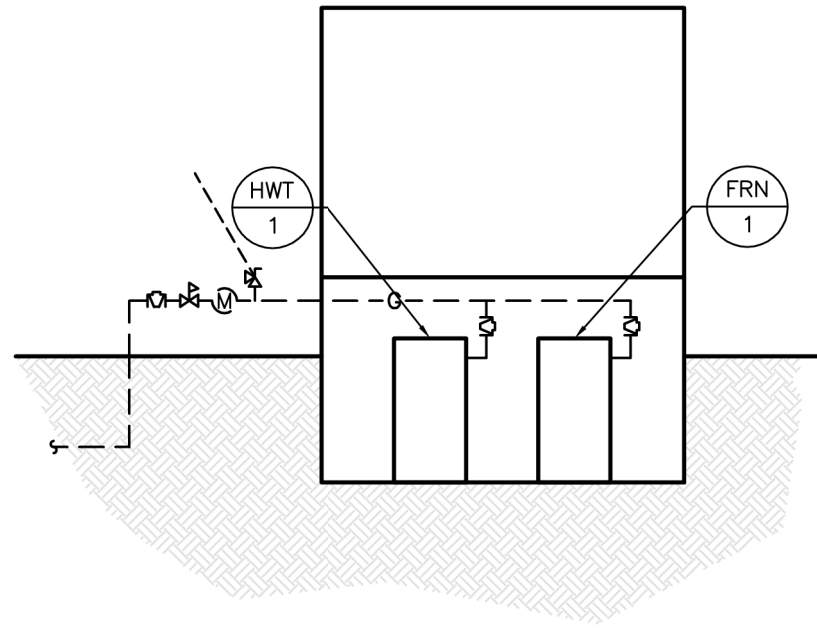




SITE PLAN - MECHANICAL

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

TAG	NAME	GAS LOAD (BTU/HR)
FRN-1	FURNACE	69,000
HWT-1	HOT WATER TANK	40,000
TOTAL		109,000



GAS PIPING SCHEMATIC

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

GENERAL NOTES

- DRAWINGS ARE SCHEMATIC, DO NOT SCALE.
- CONTRACTOR SHALL VERIFY EXACT LOCATION AND DIMENSIONS OF SITE SERVICES PRIOR TO STARTING CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE CONSULTANT.

KEYNOTES

- NEW NATURAL GAS SERVICE BY SASK ENERGY. MECHANICAL CONTRACTOR TO COORDINATE. INCLUDE ALL FEES, PERMITS AND INSPECTIONS.
- NEW NATURAL GAS SHUT-OFF AND METER, ETC. BY SASK ENERGY. MECHANICAL CONTRACTOR TO COORDINATE. PROVIDE VENTING AS REQUIRED. PROVIDE PRV DOWN TO 7 INCHES. H₂O. CONCRETE BOLLARDS FOR PROTECTION BY GENERAL CONTRACTOR. REFER TO GAS PIPING SCHEMATIC AND SCHEDULE ON THIS DRAWING.
- NEW DOMESTIC COLD WATER SERVICE INTO BUILDING FROM MUNICIPAL WATER MAIN.
- NEW SANITARY SERVICE EXITING BUILDING. CONNECT TO MUNICIPAL SANITARY SEWER.
- SUMP PUMP DISCHARGE FROM BASEMENT. PIPE DISCHARGE OVER SPLASH PAD.



SMS ENGINEERING

SMS Engineering Ltd. Consulting Engineers
770 Bradford Street Winnipeg MB Canada R3H 0K3
Telephone: 204.775.0291 Fax: 204.772.2153
sms@smseeng.com

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1	ISSUED FOR CONSTRUCTION	15/03/27
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Revision	Description	Date

Client

Project title

Carrot River, SK

RTM DESIGN

Approved by
VSW

Designed by
JRB

Drawn by
GB

Project Manager
JRB

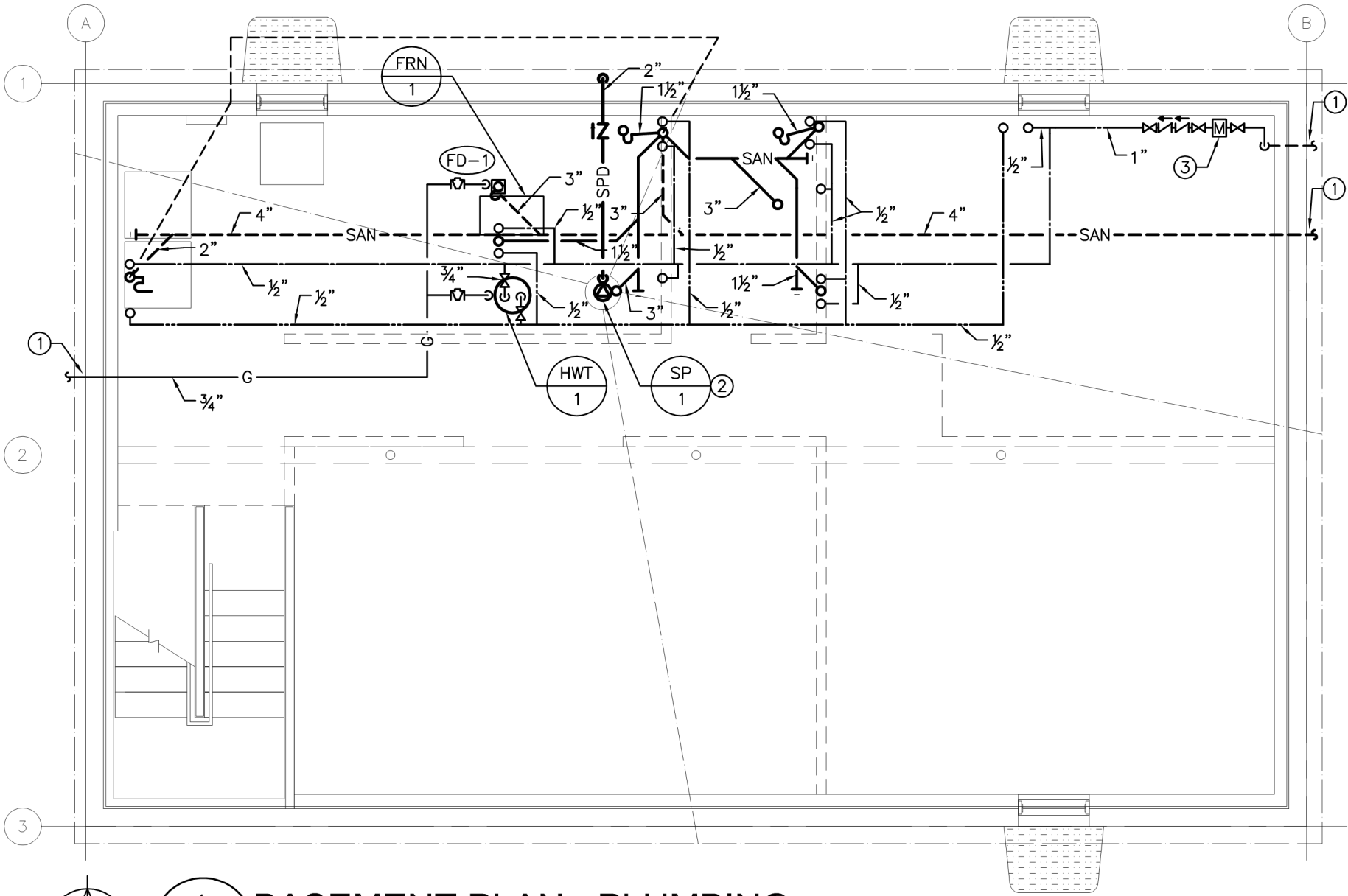
Client

Drawing title

SITE PLAN
- MECHANICAL

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	M110	1



GENERAL NOTES

- DRAWINGS ARE SCHEMATIC, DO NOT SCALE.
- VENT PIPING SHALL BE SIZED IN ACCORDANCE WITH THE CURRENT VERSION OF THE PLUMBING CODE AND EXACT ROUTING ON SITE.
- ALL PIPING ENTERING/EXITING BUILDING SHALL BE CAPPED PRIOR TO SHIPMENT AND FINAL CONNECTION TO SITE SERVICES SHALL BE MADE ON SITE.
- DRAWING CORRESPONDS TO SITE PLAN SHOWN ON DRAWING M100. ADJUST SITE SERVICE CONNECTIONS AS REQUIRED TO SUIT SITE PLAN M110.

KEYNOTES

- PROVIDE NEW SERVICES, REFER TO DRAWING M100 AND M110 FOR CONTINUATION.
- PROVIDE SUMP PUMP AS PER SPECIFICATION.
- PROVIDE DOMESTIC WATER METER TO COMPLY WITH MUNICIPAL REQUIREMENT. LOCATE METER AT HIGH LEVEL.

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SMS Engineering Ltd. Consulting Engineers
770 Bradford Street Winnipeg MB Canada R3H 0K3
Telephone: 204.775.0291 Fax: 204.772.2153
sms@smseng.com

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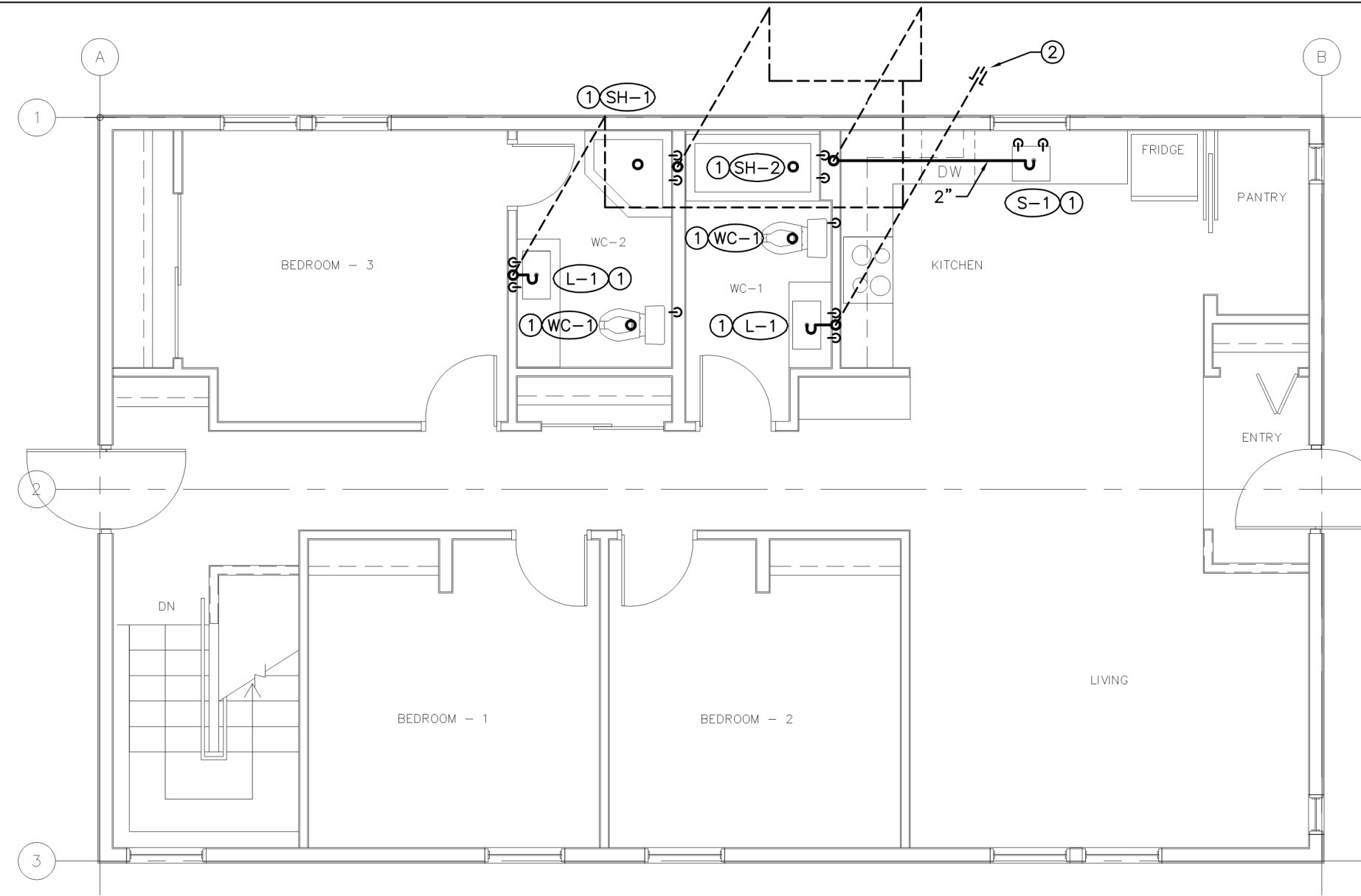
Project site
Carrot River, SK
RTM DESIGN

Approved by
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Designed by
JRB
Drawn by
GB
Project Manager
JRB
Client

Drawing title
BASEMENT PLAN - PLUMBING
SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	M200	1





MAIN FLOOR PLAN - PLUMBING

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

GENERAL NOTES

- A. DRAWINGS ARE SCHEMATIC, DO NOT SCALE.
- B. VENT PIPING SHALL BE SIZED IN ACCORDANCE WITH THE CURRENT VERSION OF THE PLUMBING CODE AND EXACT ROUTING ON SITE.
- C. ALL PIPING ENTERING/EXITING BUILDING SHALL BE CAPPED PRIOR TO SHIPMENT AND FINAL CONNECTION TO SITE SERVICES SHALL BE MADE ON SITE.

KEYNOTES

- 1. PROVIDE PLUMBING FIXTURE AS PER SPECIFICATION.
- 2. ROUTE PLUMBING VENT UP THROUGH ROOF. REFER TO ARCHITECTURAL FOR SEALING OF ROOF PENETRATION.

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770 Bradford Street Winnipeg MB Canada R3H 0H3
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Client

Project title

Carrot River, SK

RTM DESIGN

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Drawn by
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Project Manager
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Client

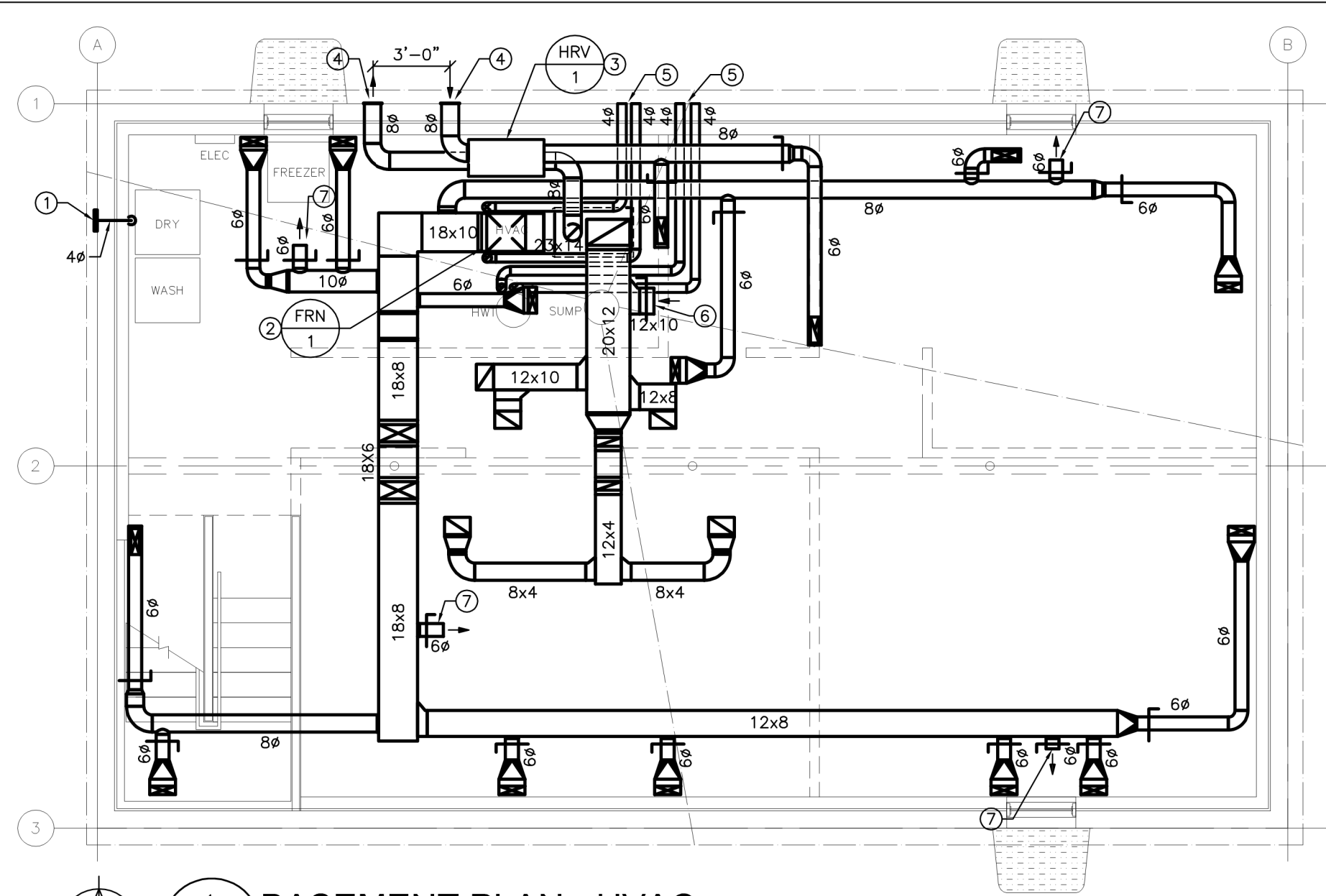
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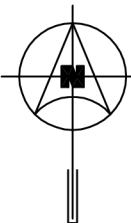
MAIN FLOOR PLAN
- PLUMBING

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	M210	1





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M300
BASEMENT PLAN - HVAC
SCALE: 3/16"=1'-0"

GENERAL NOTES

A. DRAWINGS ARE SCHEMATIC, DO NOT SCALE.

KEYNOTES

1. PROVIDE LAUNDRY EXHAUST LOUVRE AS PER SPECIFICATION.
2. PROVIDE FLOOR MOUNTED NATURAL GAS FURNACE AS PER SPECIFICATION. PROVIDE FLEXIBLE CONNECTION ON SUPPLY AND RETURN DUCTWORK CONNECTIONS.
3. PROVIDE HRV AS PER SPECIFICATION. PROVIDE FLEXIBLE CONNECTIONS ON ALL ATTACHED DUCTWORK AND SUSPEND UNIT FROM THE UNDERSIDE OF STRUCTURE COMPLETE WITH VIBRATION ISOLATION.
4. PROVIDE HRV OUTLET/INLET WALL HOODS AS PER SPECIFICATION.
5. COMBUSTION AIR/EXHAUST OUTLETS REFER TO MECHANICAL DETAILS.
6. DUCT SHALL BE OPEN ENDED INTO THE SPACE. BALANCE DUCT TO 400 CFM.
7. DUCT SHALL BE OPEN ENDED INTO THE SPACE. BALANCE DUCT TO 100 CFM.

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770 Bradford Street Winnipeg MB Canada R3H 0H3
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Revision	Description	Date

Client

Project site

Carrot River, SK

RTM DESIGN

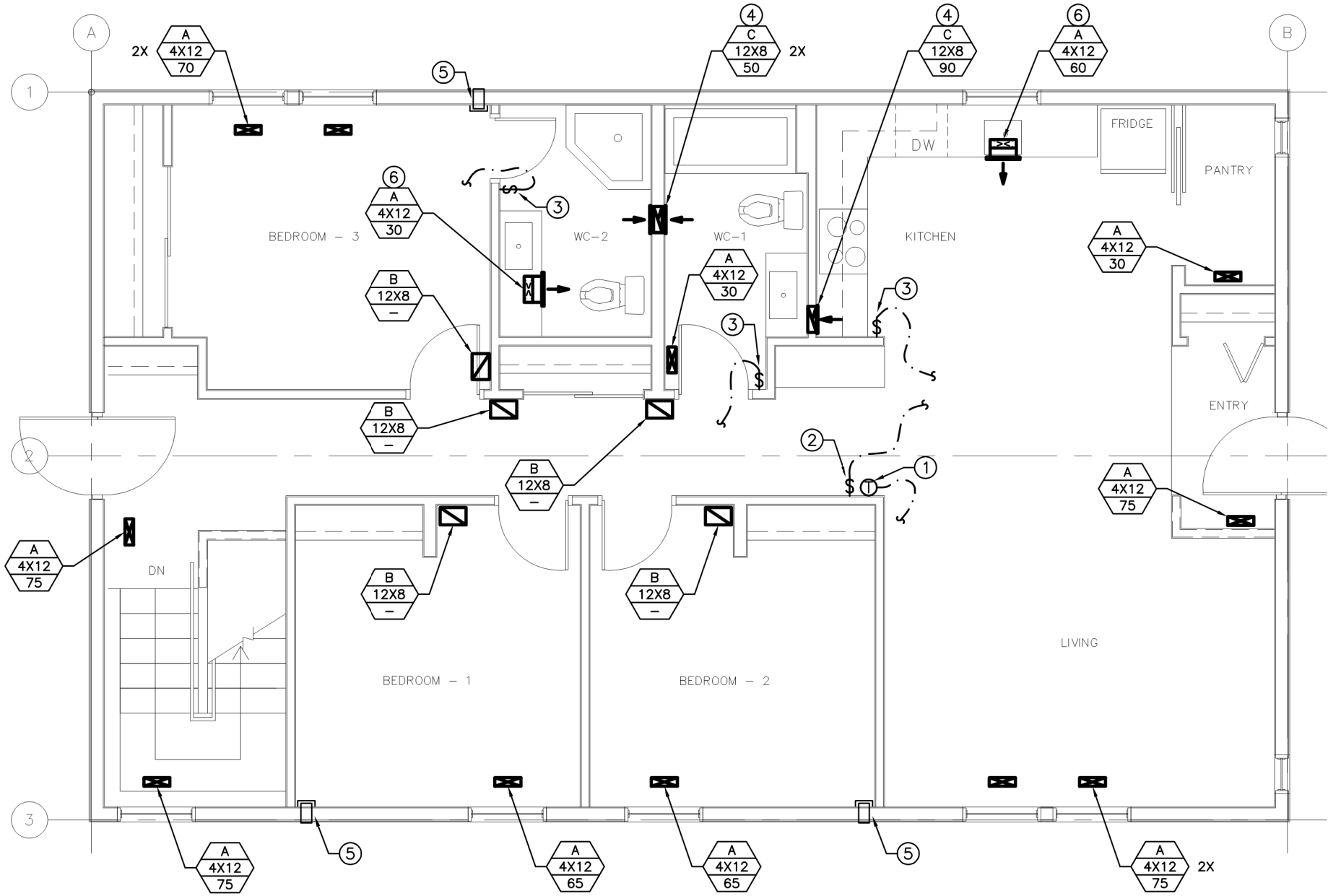
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VSW
Designed by
JRB
Drawn by
GB
Project Manager
JRB
Client

Drawing title
BASEMENT PLAN - HVAC

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	M300	1



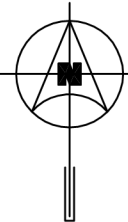


GENERAL NOTES

- A. DRAWINGS ARE SCHEMATIC, DO NOT SCALE.
- B. COORDINATE EXACT LOCATION OF ALL SWITCHES, THERMOSTATS, ETC. WITH ARCHITECT ON SITE PRIOR TO ROUGH-IN.

KEYNOTES

- 1. PROVIDE THERMOSTAT AS PER SPECIFICATION AND CONNECT TO FURNACE.
- 2. PROVIDE MAIN HRV CONTROL PANEL.
- 3. PROVIDE HRV TIMER SWITCH.
- 4. GRILLE SHALL BE INSTALLED AT HIGH LEVEL.
- 5. PROVIDE 5" PVC PIPE THROUGH WALL FOR FUTURE PORTABLE AC UNIT. INTERIOR SIDE SHALL BE THREADED WITH CAP C/W SEAL. EXTERIOR SHALL BE WALL HOOD AS PER SPECIFICATION. FILL PIPE WITH BATT INSULATION WHICH CAN BE REMOVED PRIOR TO USE.
- 6. GRILLE SHALL BE INSTALLED IN KICK PLATE OF MILL WORK.



1
M310

MAIN FLOOR PLAN - HVAC

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



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770 Bradford Street Winnipeg MB Canada R3H 0H3
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RTM DESIGN

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Client

Drawing title

MAIN FLOOR PLAN
- HVAC

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	M310	1

MECHANICAL SPECIFICATION

1.0 GENERAL

- .1 VISIT JOBSITE DURING TENDER. DRAWINGS INDICATE APPROXIMATE LOCATION OF EXISTING MECHANICAL EQUIPMENT AND SERVICES. VERIFY EXACT LOCATIONS OF EXISTING MECHANICAL EQUIPMENT AND SERVICES AND ALLOW FOR NECESSARY RELOCATING OF NOTED SERVICES (OR RECONNECTION TO EXISTING SERVICES) TO SUIT NEW CONSTRUCTION.
- .2 ALL WORK SHALL CONFORM TO SASKATCHEWAN BUILDING CODE AND LOCAL AUTHORITIES. APPLY FOR, OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
- .3 COORDINATE INSTALLATION WITH ALL RELATED TRADES, ARCHITECTURAL DRAWINGS, INTERIOR DESIGN PLANS AND REFLECTED CEILING PLANS. VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING EQUIPMENT AND SERVICES PRIOR TO PROCEEDING WITH WORK.
- .4 SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT TO CONSULTANT.
- .5 PROVIDE ONE YEAR GUARANTEE FOR ALL EQUIPMENT.
- .6 PROVIDE MILCOR ACCESS DOORS IN DRYWALL CEILINGS AND WALLS FOR ACCESS TO MECHANICAL EQUIPMENT. MINIMUM SIZE 24” X 18”.
- .7 TENDER QUOTATIONS SHALL BE BASED ON THE USE OF SPECIFIED EQUIPMENT, UNLESS ACCEPTANCE FOR THE USE OF EQUAL MANUFACTURERS IS OBTAINED FROM THE ENGINEER PRIOR TO SUBMISSION OF TENDERS. ALTERNATE MANUFACTURERS MAY BE QUOTED AS AN INCREASE OR DECREASE AMOUNT TO THE TENDER PRICE, WITHOUT PRIOR ACCEPTANCE OF THE ENGINEER.
- .8 FURNISH TO THE OWNER THREE (3) COMPLETE SETS OF MANUFACTURER’S OPERATING AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT REQUIRING MAINTENANCE. REVIEW INSTRUCTIONS WITH OWNER’S REPRESENTATIVE TO ENSURE A THOROUGH UNDERSTANDING OF THE EQUIPMENT AND ITS OPERATION.
- .9 PROVIDE A MARK–UP OF THE CONTRACT DRAWINGS FOR RECORD ”AS–BUILT” DRAWINGS, REVISED AS REQUIRED TO SHOW ANY CHANGES FROM THAT ORIGINALLY SHOWN.
- .10 PROVIDE AS–BUILT DRAWING IN AUTOCAD FORMAT, COMPLETE WITH DISK PAID FOR BY MECHANICAL CONTRACTOR.
- .11 ALL DUCTWORK AND PIPING TO BE INSTALLED STRAIGHT, PARALLEL TO THE BUILDING WALLS.
- .12 WHERE PIPES OR DUCTS GO THROUGH AN EXTERIOR ROOF OR WALL, THEY SHOULD BE BOXED–IN, FLASHED AND WATERPROOFED. ALLOW FOR EXPANSION AND CONTRACTION OF PIPE.
- .13 PIPE HANGERS SHALL BE ANVIL FIG. 65 FOR STEEL PIPE AND FIG. CT65 FOR COPPER PIPE, ALL WITH FIG. 140 THREADED ROD ATTACHED TO FIG. 117 EXPANSION CASE SET IN HOLES DRILLED IN CONCRETE, OR ATTACHED TO FIG. 225 OR 227 CLAMP ATTACHED TO JOISTS OR BEAMS.
- .14 ALL WIRING FOR EQUIPMENT SPECIFIED HEREIN SHALL BE BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.
- .15 CONTRACTOR SHALL REVIEW ALL EQUIPMENT REQUIRING ELECTRICAL HOOK–UP WITH ELECTRICAL CONTRACTOR AND ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT. ENSURE PROPER ELECTRICAL CHARACTERISTICS ARE DETERMINED FOR ALL AFFECTED AND RELATED WORK.
- .16 PRIOR TO INSTALLATION OF THE CEILING AND DRYWALL, NOTIFY THE CONSULTANT AND ARRANGE FOR A FINAL REVIEW OF THE WORK. FOR UNDERTAKING THIS REVIEW, THE FOLLOWING SHALL BE COMPLETED:
 - .1 ALL SYSTEMS TO BE FULLY OPERATIONAL, AS–BUILT DRAWINGS SUPPLIED AND OPERATING AND MAINTENANCE MANUALS SUBMITTED. TWO (2) DAYS NOTIFICATION (IN WRITING) IS REQUIRED TO BE GIVEN TO THE CONSULTANTS PRIOR TO REVIEWS BEING UNDERTAKEN.
 - .2 ALL DEFICIENCIES SHALL BE COMPLETED WITHIN TWO (2) WEEKS OF AN AGREED PERIOD OF TIME AFTER FINAL REVIEW AND A LETTER SHALL BE SUBMITTED TO THE CONSULTANT WITHIN THAT TIME ADVISING OF SUCH. FAILURE TO COMPLETE WORK MAY RESULT IN WORK BEING DONE BY THE OWNER AND THE COSTS DEDUCTED FROM FINAL PAYMENT.
- .17 SILICONE ALL FIXTURES TO ADJACENT WALLS, FLOORS OR COUNTERTOPS ETC.

2.0 INSULATION

- .1 INSULATE ALL DOMESTIC WATER PIPING WITH 1/2” FIBERGLAS 7 LB. DENSITY, PIPE INSULATION WITH ASJ AS PER MFG. RECOMMENDATIONS. SEAL ALL BREAKS, JOINTS WITH ASJ TAPE.
- .2 ALL COLD PIPING INSULATION SHALL BE C/W WITH VAPOUR BARRIER.
- .3 ALL EXHAUST AND OUTDOOR AIR DUCTS FOR DISTANCE OF 6’–0” BACK FROM WALL OR ROOF OUTLET TO HAVE 2” FIBERGLAS RFFRK.
- .4 INSULATION ON PIPING IN FINISHED AREAS TO BE RECANVASSED OR COVERED WITH WHITE P.V.C. INSULATION COVER.

3.0 PLUMBING

- .1 PROVIDE LABOUR, MATERIAL, EQUIPMENT AND SERVICES NECESSARY FOR AND INCIDENTAL TO SUPPLY AND INSTALLATION OF SYSTEMS SHOWN ON DRAWINGS. GENERALLY THIS SHALL INCLUDE:
 - .1 DRAINAGE SYSTEM
 - .2 WATER SUPPLY SYSTEM
 - .3 GAS PIPING SYSTEM
- .2 DRAINAGE SYSTEMS
 - .1 PROVIDE COMPLETE SYSTEMS OF DRAINAGE AND VENTING TO SERVE ALL FIXTURES, EQUIPMENT, ETC. AS NOTED ON DRAWINGS AND IN ACCORDANCE WITH LOCAL CODES.
 - .2 ALL DRAINAGE PIPING TO W.C.’S SHALL BE 3” DIAM. MIN.
 - .3 CLEANOUTS:
 - .1 INSTALL CLEANOUTS AT ALL CHANGES OF DIRECTION, AT INTERVALS OF NOT OVER FIFTY FEET (50) IN HORIZONTAL RUNS, AT ALL POINTS WHERE OBSTRUCTIONS MIGHT BE FORMED AND AT ALL POINTS REQUIRED BY PLUMBING REGULATIONS OR SHOWN ON DRAWINGS.
- .3 WATER SUPPLY
 - .1 PROVIDE COMPLETE SYSTEM OF WATER SUPPLY PIPING AS NOTED ON DRAWINGS.
 - .2 GRADE HORIZONTAL RUNS OF PIPING TO DRAIN THROUGH RISERS.
 - .3 INSTALL DRAIN VALVES IN MAINS FOR COMPLETE DRAINAGE.
 - .4 INSTALL DIELECTRIC INSULATING COUPLINGS BETWEEN ALL PIPES CONSTRUCTED OF DISSIMILAR METALS.

- .5 PROVIDE SHOCK ABSORBER UPSTREAM OF EVERY SOLENOID VALVE OR QUICK CLOSING VALVE. THIS APPLIES ALSO TO NIC EQUIPMENT HAVING SOLENOID VALVES SUPPLIED BY OTHER DIVISIONS, SUCH AS WASHING MACHINES, DISHWASHERS, ETC. REVIEW PROPOSED LOCATION AND TYPE OF SHOCK ABSORBERS WITH CONSULTANT PRIOR TO INSTALLATION.
- .4 INSTALL BACKFLOW PREVENTION DEVICES IN ACCORDANCE WITH THE PROVINCIAL BUILDING CODE AND ALL LOCAL BY–LAW’S. INCLUDE COSTS OF ALL TESTING.
- .5 DRAIN AND VENT PIPING
 - .1 DRAINS AND VENT PIPES SHALL BE IN ACCORDANCE WITH LOCAL OR PROVINCIAL REGULATIONS.
 - .2 UNLESS SPECIFICALLY NOTED, ALL DRAIN, WASTE AND VENT PIPING SHALL BE IPEX ABS DWV PIPE.
 - .3 ABS DWV PIPE AND FITTINGS – IPEX ABS DRAIN, WASTE AND VENT PIPE AND FITTINGS SHALL BE CERTIFIED TO CSA B181.1
 - .4 FITTINGS – ABS DWV PLASTIC FITTINGS CERTIFIED TO CSA B181.1
 - .5 JOINING OF PIPE SHALL BE AS PER MANUFACTURES WRITTEN INSTRUCTIONS.
- .6 WATER PIPING
 - .1 PROVIDE UPONOR CROSS LINKED POLYETHYLENE MANUFACTURED TO PEX–a OR ENGEL–METHOD STANDARD AND NSF–CERTIFIED SDR–9. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM F876, F877, CSA IN ACCORDANCE WITH THE ASTM STANDARD.
 - .2 INSTALL IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.
- .7 BALL VALVES
 - .1 TOYO FIG. 5049A.
- .8 CLEANOUTS
 - .1 CLEANOUTS IN ABS DWV SHALL BE INSTALLED AS PER MANUFACTURES WRITTEN INSTRUCTIONS.
- .9 GAS PIPING
 - .1 THE MECHANICAL CONTRACTOR SHALL ARRANGE WITH NATURAL GAS UTILITY FOR NEW GAS SERVICE INCLUDING PRESSURE REGULATOR. THE COST OF THIS SERVICE SHALL BE INCLUDED IN THE COST OF THIS CONTRACT.
 - .2 GAS PIPING SHALL BE BLACK STEEL PIPE, EQUAL TO ASTM A–53 SCHEDULE 40 WITH 150 LB STANDARD BLACK MALLEABLE IRON SCREWED FITTINGS. ALL WORK SHALL COMPLY WITH CAN/CSA, A NATIONAL STANDARD OF CANADA, NATURAL GAS AND PROPANE INSTALLATION CODE. AND SHALL BE PERFORMED BY FULLY QUALIFIED GAS FITTER AND/OR WELDERS LICENSED TO PRACTICE IN THE PROVINCE.
- .10 CLEANOUT ACCESS COVER
 - .1 ZURN ZANB–1460–13–7” DIAM. POLISHED NICKEL BRONZE FRAME AND COVER. CLEANOUT ACCESS COVERS IN AREAS HAVING FLOOR FINISH SUCH AS V.A. TILE, TERRAZZO, OR CARPET, SHALL BE SELECTED TO SUIT FINISH. COOPERATE WITH APPROPRIATE TRADES TO APPLY FINISH TO CLEANOUT COVERS SO THAT THEY WILL BE FLUSH WITH FLOOR, INCONSPICUOUS, AND ACCESSIBLE.
 - .2 CLEANOUTS IN WALLS SHALL BE LOCATED ADJACENT TO AN ACCESS DOOR, OR SHALL HAVE SUITABLY FINISHED ACCESS COVER FLUSH WITH WALL SO AS TO PRESENT NEAT FINISHED APPEARANCE AND LEAVE CLEANOUT EASILY ACCESSIBLE.
- .11 CLEANING AND FLUSHING
 - .1 ON COMPLETION, FLUSH OUT PIPING SYSTEM TO REMOVE ANY FOREIGN MATERIAL IN PIPING.
- .12 TESTING
 - .1 PRESSURE TEST ALL PIPING SYSTEMS AS FOLLOWS:
 - .1 PLUMBING SYSTEM – IN ACCORDANCE WITH LOCAL REGULATIONS.
 - .2 WATER SUPPLY PIPING – TEST WITH AIR TO 100 PSIG AT HIGHEST POINT OF SYSTEM. MAINTAIN PRESSURE WITHOUT LOSS FOR 4 HOURS.
 - .3 CONSULTANT’S REPRESENTATIVE SHALL WITNESS TESTS. GIVE 48 HOURS NOTICE IN ADVANCE OF TESTS.
 - .4 NATURAL GAS SYSTEM – IN ACCORDANCE WITH LOCAL REGULATIONS.
- .13 HANGERS
 - .1 FOLLOW PIPING MANUFACTURERS WRITTEN INSTRUCTION.
- .14 FIXTURES
 - .1 WC–1 WATER CLOSET (FLUSH TANK)
 - .1 ZURN Z5570–VL PRESSURE ASSISTED, ELONGATED, TWO PIECE TOLILET. 1.6 GPF, VITREOUS CHINA, SIPHON JET FLUSH ACTION, 2–1/8” FULLY GLAZED TRAPWAY, INCLUDES BOLT CAPS, VANDAL PROOF LID.
 - .2 CENTOCO SEAT, 820STSS EXTRA HEAVY DUTY PLASTIC, ELONGATED OPEN FRONT WITH COVER, CHECK HINGE AND STAINLESS STEEL HINGE POSTS/NUTS ETC, ANTI MICROBIAL, WHITE.
 - .3 SPEEDWAY CHROME PLATED FLEXIBLE SUPPLY WITH WHEEL HANDLE STOP, CHROME PLATED WALL ESCUTCHEON.



SMS Engineering Ltd. Consulting Engineers
770 Bradford Street Winnipeg MB Canada R3H 0R3
Telephone: 204.775.0291 Fax 204.772.2153
sms@smseng.com

14-317-02



374 Donald Street, First Floor
Winnipeg, MB R3B 2J2

T 204 989 0102
F 204 989 0094

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1	ISSUED FOR CONSTRUCTION	15/03/27
0	ISSUED FOR 75%	15/03/03
Revision	Description	Date

Client

Project site

Carrot River, SK

RTM DESIGN

Approved by
VSW

Designed by
JRB

Drawn by
GB

Project Manager
JRB

Client

Drawing title
MECHANICAL
SPECIFICATION

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	M400	I



- .2 L-1 LAVATORY
 - .1 AMERICAN STANDARD PIAZZA COUNTERTOP SINK, VITREOUS CHINA, SELF-RIMMING WITH CUTOUT TEMPLATE, FRONT OVERFLOW, WHITE.
 - .2 AMERICAN STANDARD CERAMIX, CAST BRASS BODY AND BRASS ESCUTCHEON WITH ALL METAL HANDLE. WASHERLESS 47MM CERAMIC DISC VALVE CARTRIDGE. EQUIPPED WITH A HOT LIMIT SAFETY STOP. BRAIDED FLEXIBLE SUPPLY HOSES WITH 3/8" COMPRESSION CONNECTORS. 20 INCH (500MM) LONG FLEXIBLE STAINLESS STEEL DRAIN CABLE IS PRE-ASSEMBLED TO SPOUT. METAL SPEED CONNECT ® DRAIN BODY WITH 1-1/4 INCH (32MM) TAIL PIECE. 1.5 GPM MAXIMUM FLOW RATE.
 - .3 SPEEDWAY FLEXIBLE LAV. SUPPLIES WITH S.D.A.S AND INLET EXTENSION TUBES.
 - .3 SH-1 SHOWER
 - .1 MAAX BISTRO 2, ONE PIECE CORNER SHOWER, INTEGRATED SHELVES AND SLIDING DOOR.
 - .2 MOEN 8346 SINGLE HANDLE PRESSURE BALANCING SHOWER VALVE WITH HAND-HELD SHOWER SYSTEM.
 - .4 SH-2 SHOWER
 - .1 HYTEC MODEL AC90, ONE PIECE TUB/SHOWER, ACRYLIC REINFORCED WITH FIBREGLASS, LIGHT KIT, AND CURTAIN ROD.
 - .2 MOEN 8346 SINGLE HANDLE PRESSURE BALANCING SHOWER VALVE WITH HAND-HELD SHOWER SYSTEM.
 - .5 S-1 KITCHEN SINK
 - .1 KINDRED LBD6408P-1 DOUBLE COMPARTMENT SINK WITH FAUCET LEDGE. 18 GAUGE, TYPE 304, 18-10 STAINLESS STEEL. SELF RIMMING. EXPOSED SURFACES ARE SATIN FINISHED. UNDERCOATED TO REDUCE CONDENSATION AND RESONANCE. COMPLETE WITH FACTORY APPLIED RIM SEAL, UNIVERSALL INSTALLATION SYSTEM HARDWARE, CUTOUT TEMPLATE AND 3.5" WASTE ASSEMBLY.
 - .2 ZURN Z82300-XL-HS-23M POLISHED CHROME PLATED CAST BRASS SINGLE CONTROL KITCHEN FAUCET WITH AN INTEGRAL 10" CAST SWING SPOUT, A CERAMIC DISC CARTRIDGE AND A TEMPERATURE LIMIT STOP. UNIT IS FURNISHED WITH A 1.5 GPM PRESSURE COMPENSATING AERATOR, A METAL ADA COMPLIANT LEVER HANDLE, STAINLESS STEEL FLEX CONNECTION HOSES AND MOUNTING HARDWARE. COMPLETE HOSE AND SPRAY.
 - .3 SPEEDWAY FLEXIBLE SUPPLIES WITH S.D.A.S AND INLET EXTENSION TUBES.
 - .15 EQUIPMENT
 - .1 HOT WATER TANK
 - .1 BRADFORD WHITE PD1-40S6FBN, 40 GALLON NATURAL GAS WATER HEATER, 40000 BTU/HR INPUT, POWER DIRECT VENT.
 - .2 WATTS 10L T&P RELIEF VALVE.
 - .2 FLOOR DRAINS
 - .1 FD-1:
 - .1 ZURN ZZN-415-A CAST IRON FLOOR DRAIN WITH 6" (150MM) DIAM. ADJUSTABLE 1/2" (13MM) THICK NICKEL BRONZE STRAINER.
 - 4.0 OUTSIDE SERVICES
 - .1 WATER SERVICE PIPE SHALL BE TYPE 'K' SOFT COPPER.
 - .2 SEWER PIPE SHALL BE PVC PIPE WITH BELL AND SPIGOT WITH RUBBER GASKET JOINT.
 - .3 BED PIPING ON SAND ON UNDISTURBED EARTH.
 - .4 BACKFILL EXCAVATION WITH WELL COMPACTED GRANULAR SAND AND GRAVEL CONFORMING TO SPECIFICATION WBX-3.
 - .5 CONFIRM SIZE, DEPTH AND LOCATION OR ALL SERVICES WITH MUNICIPALITY OR UTILITY CONCERNED.
 - .6 WATER MAIN TO BE FLUSHED AND CHLORINATED AFTER INSTALLATION.
 - 5.0 VENTILATION
 - .1 DUCTWORK
 - .1 GALVANIZED IRON SCHEDULE:

<u>MAX. SIDE</u>	<u>GAUGES (USSG)</u>	<u>BRACING</u>
UP TO 24"	24	NONE
ROUND DUCT UP TO 19"	26	NONE
 - .2 WHERE DUCT WIDTH EXCEEDS 18" IN LARGEST DIMENSION, STIFFEN BY BREAKING SHEETS DIAGONALLY.
 - .3 DUCT SIZES SHOWN ARE INSIDE DIMENSIONS. IF DUCTS ARE ACOUSTICALLY LINED, OUTSIDE DUCT SIZE TO BE INCREASED TO SUIT.
 - .4 DUCTWORK SHALL BE CONSTRUCTED AS RECOMMENDED IN ASHRAE GUIDE.
 - .5 SEAL ALL JOINTS (NEW AND EXISTING) AIRTIGHT WITH DURO-DYNE DUCT SEALER OR EQUAL, IN STRICT ACCORDANCE WITH MANUFACTURER'S PUBLISHED RECOMMENDATIONS. PRIOR TO APPLICATION, DUCTWORK TO BE DRY AND FREE OF GREASE, ETC. USE 1/4" BEAD OF MATERIAL ALONG JOINTS. MATERIAL, WHEN DRY, TO HAVE 1/8" DEPTH EXTENDING 1" ON EACH SIDE OF JOINT OR SEAM.
 - .6 WHERE DUCTWORK CONFLICTS WITH MECHANICAL PIPING AND IT IS NOT POSSIBLE TO DIVERT DUCTWORK OR PIPING TO STAY WITHIN ALLOWABLE SPACE LIMITATIONS, PROVIDE DUCT EASEMENTS. EASEMENTS NOT REQUIRED ON PIPES 100MM (4") AND SMALLER OUTSIDE DIMENSION, UNLESS THIS EXCEEDS 20% OF DUCT AREA. HANGERS AND STAYS IN DUCTWORK TO BE PARALLEL TO AIR FLOW. IF EASEMENT EXCEEDS 20% OF DUCT AREA, DUCT TO BE SPLIT INTO TWO DUCTS WITH ORIGINAL DUCT AREA BEING MAINTAINED. EASEMENTS TO BE APPROVED BY CONSULTANT BEFORE INSTALLATION.
 - .7 SIZE ROUND DUCTS, INSTALLED IN PLACE OF RECTANGULAR DUCTS, FROM ASHRAE TABLE OF EQUIVALENT RECTANGULAR AND ROUND DUCTS.
 - .8 PRIOR TO FABRICATION OF DUCTWORK, CHECK ALL CEILING SPACES AND HEIGHTS FOR CONFLICTION WITH OTHER TRADES.
 - .9 DUCT AND EQUIPMENT SUPPORTS, HANGERS AND INSERTS
 - .1 SUPPORT HORIZONTAL DUCTS ON MAXIMUM 8'-0" CENTRES BY NON-PERFORATED GALV. STEEL,

- RIVETED STRAP FOR DUCTWORK 36" (EITHER DIMENSION) OR LESS, AND MINIMUM 1" X 1" X 1/8" GALV. IRON PASSING UNDER DUCTS 37" OR OVER (EITHER DIMENSION) WITH 3/8" DIAM. THREADED RODS SUSPENDING ANGLES FROM STRUCTURE.
- .10 MANUAL VOLUME DAMPERS TO BE #16 GA. GALV. STEEL, STIFFENED. DAMPERS HARDWARE TO BE DURO-DYNE KS-145, KS-385 OR KS-12 AS RECOMMENDED BY MANUFACTURER.
- .11 LAUNDRY DUCT SHALL BE CONSTRUCTED OF ALUMINIUM AND BE FREE OF ANY INTERNAL OBSTRUCTIONS (SCREWS, NAILS, BURRS, ETC.).
- .12 DIFFUSERS, GRILLES AND REGISTERS
- .1 TYPE A: RECTANGULAR STEEL FLOOR SUPPLY REGISTER.
- .2 TYPE B: RECTANGULAR STEEL FLOOR RETURN GRILLE.
- .3 TYPE C: RECTANGULAR WALL RETURN GRILLE.
- .13 LOUVERS/WALL HOODS
- .1 HEAT RECOVERY VENTILATOR
- .1 PROVIDE ALUMINIUM 6" WALL HOODS. INTAKE COMPLETE WITH 1/2" MESH AND EXHAUST COMPLETE WITH BACK DRAFT DAMPER.
- .2 LAUNDRY
- .1 PROVIDE ALUMINIUM 4" WALL HOOD COMPLETE WITH FLAPPER.
- .3 AC UNIT
- .1 PROVIDE ALUMINIUM 4" WALL HOODS. INTAKE COMPLETE WITH 1/2" MESH AND EXHAUST COMPLETE WITH BACK DRAFT DAMPER.
- .14 HEAT RECOVERY VENTILATOR (HRV)
- .1 PROVIDE LIFE BREATH 195DCS, DOUBLE CROSS-FLOW HEAT RECOVERY CORES, FIVE SPEEDS. COMPLETE WITH WALL CONTROL, THREE 20 MINUTE TIMER CONTROLLERS, AND HUMIDISTAT. EXHAUST ONLY DEFROST.
- .15 FURNACE
- .1 PROVIDE GOODMAN GMH950703BXA, 69000 BTU/HR INPUT NATURAL GAS FURNACE.
- 6.0 TESTING AND BALANCING
- .1 AIR SYSTEMS SHALL BE BALANCED AND TESTED BY AN INDEPENDENT AIR BALANCE AGENCY (AABC) TO PROVIDE AIR QUANTITIES AS SHOWN. PROVIDE AIR BALANCE REPORT FOR REVIEW BY THE CONSULTANT. SUBMIT TWO COPIES FOR REVIEW UPON COMPLETION. PROVIDE DAMPER STICKER UPON FINAL BALANCING COMPLETION.
- 7.0 CONTROLS
- .1 PROVIDE THREE HARD COVER COPIES OF INFORMATION PERTAINING TO TEMPERATURE CONTROL SYSTEM FOR OWNER'S PERMANENT RECORD. INCLUDE SCHEMATIC DRAWINGS AND CONTROL SEQUENCE WRITE-UPS OF ALL CONTROL SYSTEMS.
- .2 PROVIDE ALL LABOUR, MATERIAL, PLANT, TOOLS, EQUIPMENT, AND SERVICES NECESSARY AND REASONABLY INCIDENTAL TO COMPLETION OF TEMPERATURE CONTROLS SYSTEMS AS NOTED HEREIN AND/OR SHOWN ON DRAWINGS.
- .3 ALL NEW WORK RELATED TO CONTROLS SHALL BE PERFORMED BY A QUALIFIED CONTROLS SUBCONTRACTOR.
- .4 PROVIDE COMPLETE SYSTEM OF AUTOMATIC CONTROLS FOR SYSTEMS INDICATED.
- .5 PROVIDE ALL NECESSARY DAMPERS, DAMPER OPERATORS, THERMOSTATS, VALVES, VALVE OPERATORS, CONTROLLERS, INDICATION, RELAYS, CUMULATORS, POSITIONERS, SOLENOID VALVES, SWITCHES, CLOCKS, TRANSFORMERS, ETC., TO MAKE COMPLETE AND OPERABLE SYSTEM.
- .6 MECHANICAL SUB-CONTRACTOR TO DISTRIBUTE AND MOUNT ALL PIPE CONNECTED EQUIPMENT.
- .7 ELECTRICAL TO SUPPLY AND INSTALL ALL CONDUIT, WIRE AND CONNECTIONS FROM DISTRIBUTION PANELS TO LINE SIDE OF MAGNETIC STARTERS AND THERMAL OVERLOAD SWITCHES, AND FROM LOAD SIDE OF STARTERS AND SWITCHES TO MOTORS.
- .8 CONTROL CONTRACTOR SHALL SUPPLY AND INSTALL ALL CONDUIT, WIRE, ELECTRIC RELAYS, CONNECTIONS AND OTHER DEVICES REQUIRED FOR CONTROL CIRCUIT WIRING FOR SYSTEMS AS SPECIFIED HEREIN WHETHER LINE OR LOW VOLTAGE. ELECTRICAL WIRING SHALL BE INSTALLED IN CONFORMANCE WITH CSA, ULC, MANITOBA BUILDING CODE AND DIVISION 16 ELECTRICAL REQUIREMENTS.
- .9 SEQUENCES OF OPERATION
- .1 FURNACE
- .1 PROVIDE PROGRAMMABLE THERMOSTAT TO MODULATE FURNACE TO MAINTAIN SPACE SET TEMPERATURE.
- .2 HEAT RECOVERY VENTILATOR (HRV)
- .1 MAIN WALL CONTROLLER SHALL BE CAPABLE OF EITHER BEING SET TO OPERATE UNIT BASED ON SPACE HUMIDITY SETPOINT OR USER CONTROL.
- .2 KITCHEN CONTROLLER SHALL BE 20-MINUTE LIGHTED PUSH BUTTON.
- .3 BATHROOM CONTROLLER SHALL BE 20-MINUTE LIGHTED PUSH BUTTON.
- .4 HRV SHALL BE INTERLOCKED TO FURNACE SUCH THAT WHEN THE HRV OPERATES THE FURNACE FAN OPERATES.



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1	ISSUED FOR CONSTRUCTION	15/03/27
0	ISSUED FOR 75%	15/03/03
Revision	Description	Date

Client

Project site

Carrot River, SK

RTM DESIGN

Approved by
VSW

Designed by
JRB

Drawn by
GB

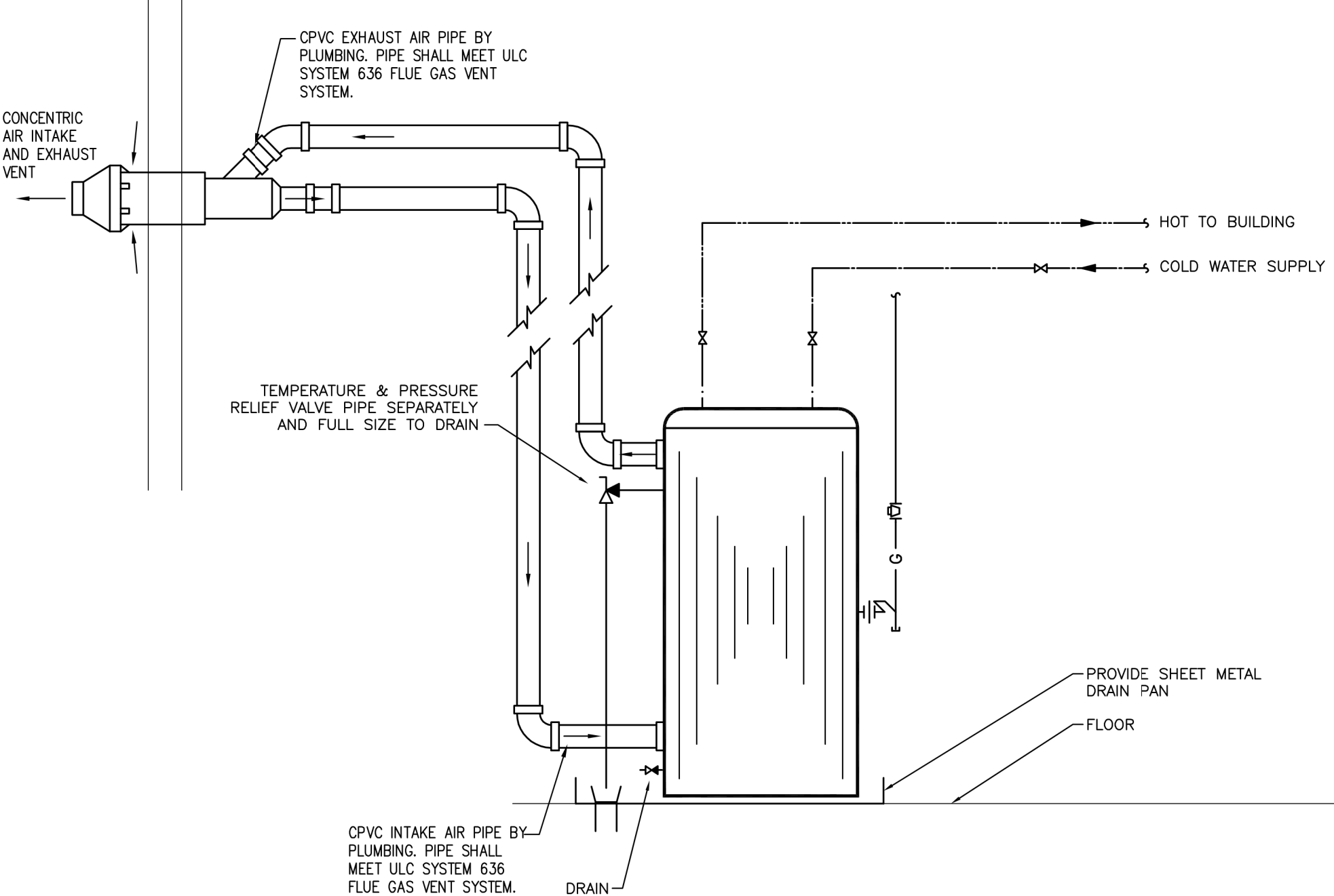
Project Manager
JRB

Client

Drawing title
**MECHANICAL
DETAILS**

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	M500	I



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M500

HOT WATER TANK DETAIL
SCALE: NTS



300-275 Carlton Street
Winnipeg, Manitoba R3C 5R6
T 204. 943. 7501
F 204. 943. 7507
2014-1217



Crosier Kilgour
& Partners Ltd.
CONSULTING STRUCTURAL ENGINEERS

republic
architecture

374 Donald Street, First Floor
Winnipeg, MB R3B 2J2

T 204 989 0102
F 204 989 0094

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2	ISSUED FOR CONSTRUCTION	31 MAR 2015
1	100% SUBMISSION	27 MAR 2015
0	75% SUBMISSION	03 MAR 2015
Revision	Description	Date

Client	RCMP Real Property
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Project title	RCMP RESIDENTIAL Carrot River, SK
	MOBILE HOME DESIGN TYPE 'B'

Approved by	
Designed by	BF
Drawn by	WDB
Project Manager	RD
Client	RCMP

Drawing title	FOUNDATION PLAN
	SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	S100	2

FOUNDATION PLAN

1/4" = 1'-0"

46'-0"

A

B

1

14'-0"

2

14'-0"

3

11'-6"

11'-6"

11'-6"

5" CAST IN PLACE CONCRETE SLAB ON
MIN 6" COMPACTED GRANULAR FILL.
10M @ 16" O/C EACH WAY TOP.
TYPICAL BASEMENT FLOOR

30" WIDE x 10" HIGH CONTINUOUS
CAST IN PLACE CONCRETE FOOTING.
6-20M CONT LONGITUDINAL BOTTOM
15M @ 24" O/C TRANSVERSE LOWER LAYER.
DOWELS TO MATCH WALL VERTICAL REINFORCING WITH
24" VERTICAL PROJECTION INTO WALL. HOOK BOTTOM END
OF DOWELS TO BOTTOM FOOTING REINFORCING.

1/2" FLEXCELL AROUND TELEPOST
THROUGH CONCRETE. TYPICAL

TYPICAL SPREAD
FOOTING

TYPICAL SPREAD
FOOTING

2
S400

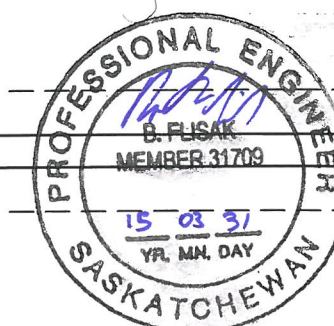
30x30x10" CAST IN PLACE CONCRETE
SPREAD FOOTING ON UNDISTURBED SOIL.
5-20M EACH WAY BOTTOM.
TYPICAL SPREAD FOOTING U/N

TYPICAL SPREAD FOOTING
EXCEPT 24x24

8" CAST IN PLACE CONCRETE FOUNDATION WALL.
15M @ 16" O/C VERTICAL INSIDE FACE OUTER LAYER
10M @ 16" O/C HORIZONTAL INSIDE FACE INNER LAYER
10M @ 16" O/C EACH WAY OUTSIDE FACE
(VERTICALS AT OUTER LAYER, HORIZONTAL AT INNER LAYER)

ASSOCIATION OF PROFESSIONAL ENGINEERS
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NUMBER 47
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300-275 Carlton Street
Winnipeg, Manitoba R3C 5R6
T 204. 943. 7501
F 204. 943. 7507
2014-1217



Crosier Kilgour
& Partners Ltd.
CONSULTING STRUCTURAL ENGINEERS

republic
architecture

374 Donald Street, First Floor
Winnipeg, MB R3B 2J2

T 204 989 0102
F 204 989 0094

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2	ISSUED FOR CONSTRUCTION	31 MAR 2015
1	100% SUBMISSION	27 MAR 2015
0	75% SUBMISSION	03 MAR 2015
Revision	Description	Date

Client
**RCMP
Real Property**

Project title
RCMP RESIDENTIAL,
Carrot River, SK
**MOBILE HOME DESIGN
TYPE 'B'**

Approved by

Designed by
BF

Drawn by
WDB

Project Manager
RD

Client
RCMP

Drawing title
MAIN FLOOR FRAMING PLAN

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	S200	2

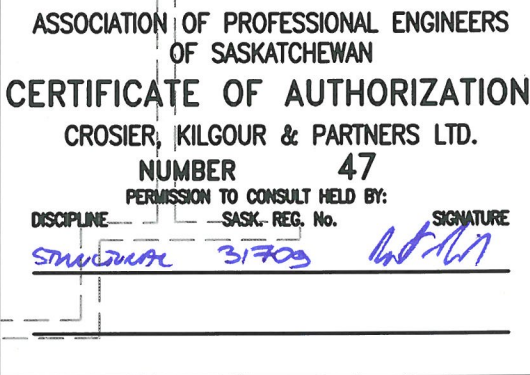


46'-0"

COORD
WI/ ARCH

COORDINATE WITH ARCH

3/4" T&G EXTERIOR GRADE DOUGLAS FIR PLYWOOD SHEATHING
GLUED AND SCREWED TO 2x10 SPF NO 1 / NO 2 WOOD JOISTS
@ 16" MAX. SOLID BRIDGING @ 1/3 SPAN POINTS AND OVER
TRANSPORTATION BEAM LOCATIONS.
TYPICAL FLOOR FRAMING U/N.



4" DEEP x 12" WIDE
FORMED POCKET IN WALL
FOR BEAM. USE SOLID
STEEL SHIMS UNDER FULL
BEARING AREA OF BEAM
AS REQUIRED FOR LEVEL.
INFILL SOLID WITH
CONCRETE AFTER BEAM IS
SET IN PLACE. TYPICAL
BOTH ENDS.

WEISURE WELD "WMA"
ADJUSTABLE STEEL TELEPOST
MK - 'ST-1'

CONT 5 PLY 2x10 SPF NO 1 / NO 2
BUILT-UP WOOD BEAM

TYPICAL FLOOR EXCEPT
2x6 JOISTS @ 12" o/c
C/W SIMPSON FLUSH HANGERS
BOTTOM OF 2x6 JOISTS FLUSH WITH
BOTTOM OF 2x10 JOISTS

TYPICAL FLOOR FRAMING

NON-LOAD BEARING
PARTITION WALLS ABOVE
SHOWN THUS

8" CONCRETE FOUNDATION WALL.
SEE FOUNDATION PLAN. TYPICAL

PRE-ENGINEERED STAIR IN BASEMENT
STAIR OPENING. COORDINATE EXACT
DIMENSIONS WITH ARCH

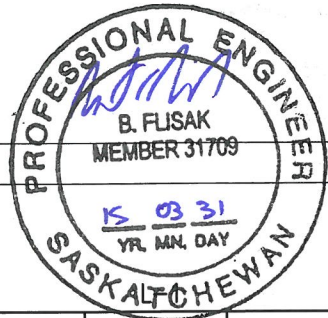
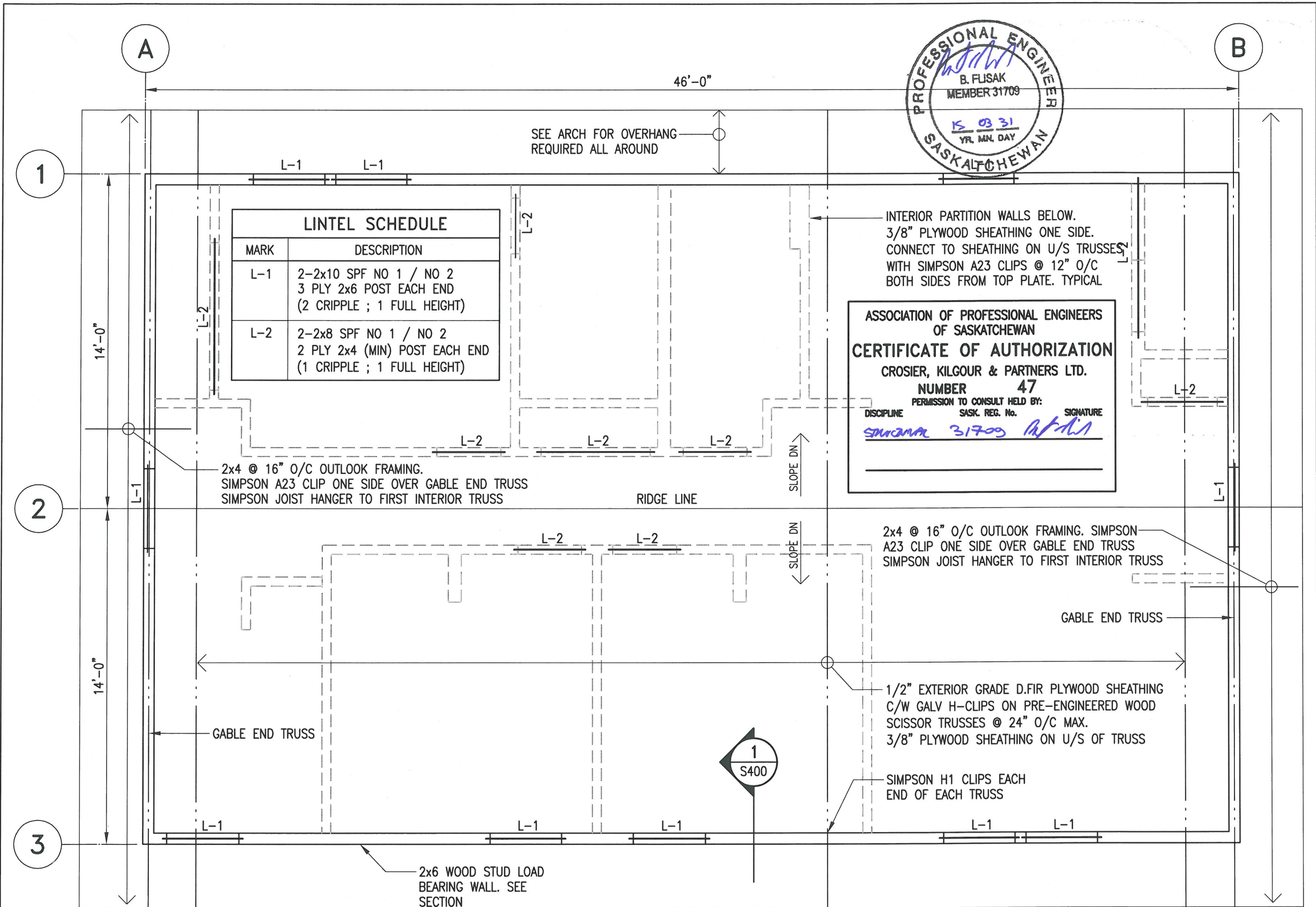
MAIN FLOOR FRAMING PLAN

1/4" = 1'-0"

DESIGN DEAD LOAD = 12 psf
DESIGN LIVE LOAD = 40 psf (RESIDENTIAL OCCUPANCY)

PLAN NOTE:

- ① FLUSH FRAME JOIST TO BEAM AND BEAM TO
BEAM WITH SIMPSON JOIST AND BEAM HANGERS.



LINTEL SCHEDULE	
MARK	DESCRIPTION
L-1	2-2x10 SPF NO 1 / NO 2 3 PLY 2x6 POST EACH END (2 CRIPPLE ; 1 FULL HEIGHT)
L-2	2-2x8 SPF NO 1 / NO 2 2 PLY 2x4 (MIN) POST EACH END (1 CRIPPLE ; 1 FULL HEIGHT)

ASSOCIATION OF PROFESSIONAL ENGINEERS
OF SASKATCHEWAN
CERTIFICATE OF AUTHORIZATION
CROSIER, KILGOUR & PARTNERS LTD.
NUMBER **47**
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DISCIPLINE STRUCTURAL SASK. REG. No. 31709 SIGNATURE [Signature]

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

DESIGN DEAD LOAD = 15 psf
DESIGN LIVE LOAD = 36 psf (SNOW)

300-275 Carlton Street
Winnipeg, Manitoba R3C 5R6
T 204. 943. 7501
F 204. 943. 7507
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CONSULTING STRUCTURAL ENGINEERS

republic
architecture
374 Donald Street, First Floor
Winnipeg, MB R3B 2J2
T 204 989 0102
F 204 989 0094

5		
4		
3		
2	ISSUED FOR CONSTRUCTION	31 MAR 2015
1	100% SUBMISSION	27 MAR 2015
0	75% SUBMISSION	03 MAR 2015
Revision	Description	Date

Client:
**RCMP
Real Property**

Project title:
**RCMP RESIDENTIAL
Carrot River, SK**

**MOBILE HOME DESIGN
TYPE 'B'**

Approved by:
BF

Designed by:
BF

Drawn by:
WDB

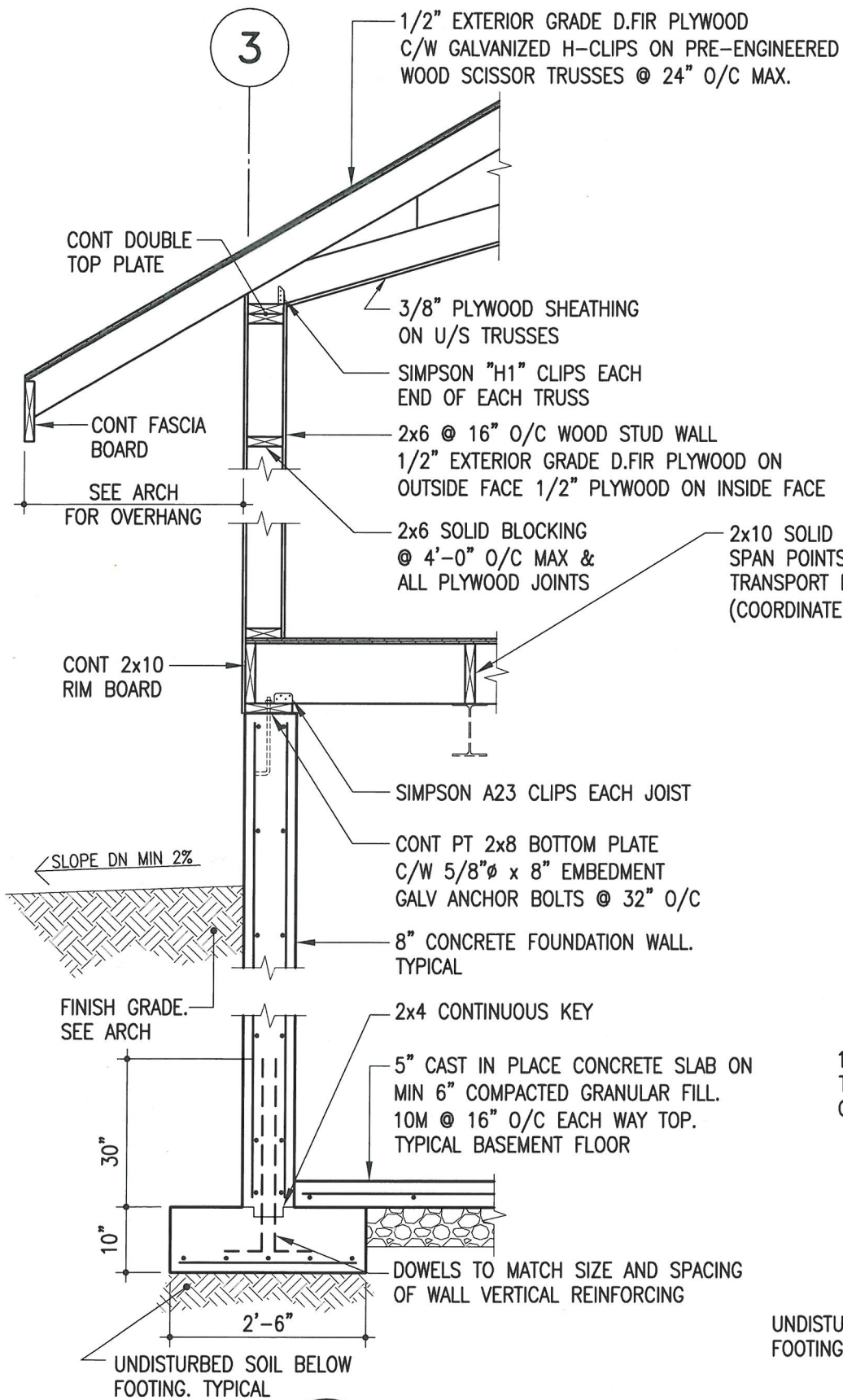
Project Manager:
RD

Client:
RCMP

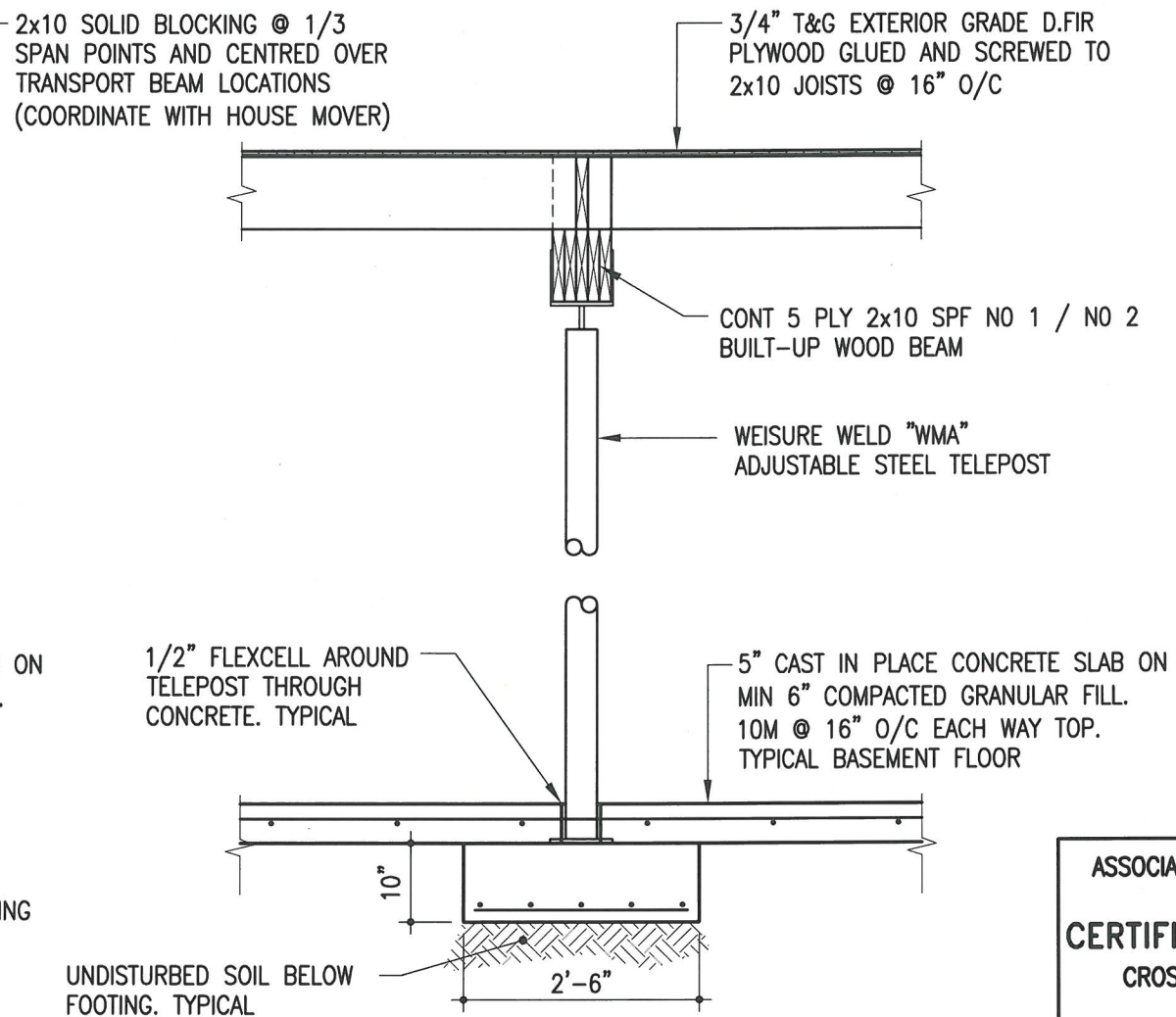
Drawing title:
**ROOF FRAMING PLAN
LINTEL SCHEDULE**

SCALE: AS NOTED

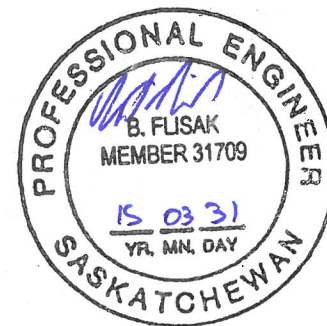
Project No.	Sheet	Revision no. /
92	S300	2



1 WALL SECTION
S400 1/2" = 1'-0"



2 SECTION
S400 1/2" = 1'-0"



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SHAWNA 31709 *45-61*

300-275 Carlton Street
Winnipeg, Manitoba R3C 5R6
T 204. 943. 7501
F 204. 943. 7507
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F 204 989 0094

Revision	Description	Date
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0	75% SUBMISSION	03 MAR 2015

Client
**RCMP
Real Property**

Project title
RCMP RESIDENTIAL
Carrot River, SK
**MOBILE HOME DESIGN
TYPE 'B'**

Approved by
Designed by
BF
Drawn by
WDB
Project Manager
RD
Client
RCMP

Drawing title
SECTIONS

SCALE: AS NOTED

Project No.	Sheet	Revision no. /
92	S400	2

GENERAL NOTES

1. STRUCTURAL DESIGN BASED ON THE NATIONAL BUILDING CODE OF CANADA 2010 EDITION.
- A) IMPORTANCE CATEGORY: NORMAL
B) WIND LOAD: Q50 = 7.9 P.S.F.
C) GROUND SNOW LOAD: SS = 41.7 P.S.F.
D) ASSOCIATED RAIN LOAD: SR = 2.1 P.S.F.
2. SEISMIC SITE CLASSIFICATION: NOT APPLICABLE
3. DO NOT SCALE DRAWINGS.
4. DO NOT BACKFILL UNTIL GROUND FLOOR STRUCTURE IS IN PLACE AND BASEMENT SLABS HAVE BEEN POURED AND CURED.
5. ALL DIMENSIONS ARE TO BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
6. THESE STRUCTURAL DRAWINGS SHOW THE COMPLETED STRUCTURE AND DO NOT INDICATE ALL COMPONENTS NECESSARY FOR SAFETY DURING CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY ON AND AROUND THE JOBSITE DURING CONSTRUCTION.

FOUNDATIONS

1. NO GEOTECHNICAL INVESTIGATION HAS BEEN PERFORMED AT THIS SITE AT THE TIME OF ISSUANCE OF THESE DRAWINGS. THEREFORE ALL FOOTINGS ARE DESIGNED ON AN ASSUMED ALLOWABLE BEARING CAPACITY OF 2000 P.S.F. FOOTINGS SHALL BE PLACED ON UNDISTURBED NATIVE SOIL.
2. OWNER ACCEPTS RESPONSIBILITY FOR SOIL CAPACITIES DIFFERING FROM THE ASSUMPTIONS NOTED ABOVE, AS WELL AS POTENTIAL DIFFERENTIAL SOIL MOVEMENTS.

CAST-IN-PLACE CONCRETE

I CONCRETE

1. ALL CONCRETE IS TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF CAN/CSA-A23.1-09 "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION" AND CAN/CSA-A23.2-09 "METHOD OF TEST FOR CONCRETE".
2. PROVIDE CERTIFICATION THAT MIX PROPORTIONS SELECTED WILL PRODUCE CONCRETE OF QUALITY, YIELD AND STRENGTH AS SPECIFIED IN CONCRETE MIXES, AND WILL COMPLY WITH CAN/CSA-A23.1. CERTIFICATION LETTER TO BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF SASKATCHEWAN.
3. PROVIDE CERTIFICATION THAT PLANT, EQUIPMENT, AND MATERIALS TO BE USED IN CONCRETE COMPLY WITH REQUIREMENTS OF CAN/CSA-A23.1. CERTIFICATION LETTER TO BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF SASKATCHEWAN.
4. CONCRETE PROPERTIES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

FOOTINGS: 32 MPA MIN. AT 56 DAYS
CLASS OF EXPOSURE: S-2
ENTRAINED AIR/CATEGORY: 2 (4% TO 7%)
CEMENT TYPE: HS
AGGREGATE: MAX. 20 MM
CURING TYPE: TYPE 2 - ADDITIONAL

EXTERIOR WALLS AND GRADE BEAMS: 25 MPA MIN. AT 28 DAYS
CLASS OF EXPOSURE: F-2
ENTRAINED AIR/CATEGORY: 2 (4% TO 7%)
AGGREGATE MAX. 20 MM
CURING TYPE: TYPE 2 - ADDITIONAL

INTERIOR SLABS-ON-GRADE: 32 MPA MIN. AT 28 DAYS
CLASS OF EXPOSURE: N
ENTRAINED AIR/CATEGORY: NONE
AGGREGATE MAX. 20 MM
CURING TYPE: TYPE 2 - ADDITIONAL

UNLESS INDICATED OTHERWISE THE CONTRACTOR SHALL SPECIFY CONCRETE SLUMP APPROPRIATE WITH PLACEMENT METHODS AND SITE CONDITIONS. THE CONTRACTOR SPECIFIED SLUMP MUST BE SHOWN ON THE CERTIFICATION LETTER AND CONCRETE DELIVERY TICKET.

5. UNLESS NOTED OTHERWISE CONCRETE CURING TO CONFORM TO THE LATEST EDITION OF CAN/CSA-A23.1-09 AS FOLLOWS:
- A) TYPE 1 - BASIC: 3 DAYS $\geq 10^{\circ}\text{C}$ AND FOR A TIME NECESSARY TO ATTAIN 40% OF THE SPECIFIED STRENGTH.
- B) TYPE 2 - ADDITIONAL: 7 DAYS $\geq 10^{\circ}\text{C}$ AND FOR A TIME NECESSARY TO ATTAIN 70% OF THE SPECIFIED STRENGTH.
- C) TYPE 3 - EXTENDED: 7 DAYS WET CURING $\geq 10^{\circ}\text{C}$.

6. AIR ENTRAINING ADMIXTURES SHALL CONFORM TO THE REQUIREMENTS OF ASTM C260/C260M-10A "STANDARD SPECIFICATION FOR AIR ENTRAINING ADMIXTURES FOR CONCRETE". SUPERPLASTICIZING ADMIXTURES SHALL CONFORM TO ASTM C494/C494M "STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE" OR ASTM C1017/C1017M "STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR USE IN PRODUCING FLOWING CONCRETE" WHEN FLOWING CONCRETE IS APPLICABLE. AIR ENTRAINED ADMIXTURES TO HAVE A DURABILITY FACTOR GREATER THAN 75, WHEN TESTED TO ASTM STANDARDS C666/C666M PROCEDURE A. SPACING FACTOR FOR ANY AIR ENTRAINING ADMIXTURE MUST BE 0.17MM OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM C457 "STANDARD TEST METHOD FOR MICROSCOPICAL DETERMINATION OF PARAMETERS OF THE AIR-VOID SYSTEM IN HARDENED CONCRETE".

II REINFORCING STEEL

1. ALL REINFORCING STEEL TO BE CAN/CSA-G30.18M GRADE 400R DEFORMED BARS EXCEPT COLUMN TIES AND BEAM STIRRUPS WHICH SHALL BE GRADE 400W STEEL. ALL REINFORCING IS TO BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE REINFORCING STEEL INSTITUTE OF CANADA - MANUAL OF STANDARD PRACTICE, EXCEPT OTHERWISE NOTED.
2. WELDED STEEL WIRE MESH SHALL BE TO ASTM A185/A185M-07, 400 MPA YIELD, FLAT SHEETS ONLY.
3. REINFORCING STEEL COVER IS TO CONFORM TO CAN/CSA A23.3-04 "DESIGN OF CONCRETE STRUCTURES FOR BUILDINGS" AND AS FOLLOWS:

EXTERIOR WALLS:
EXPOSURE CLASS: F-2 1 1/2 IN. OUTSIDE FACE 3/4 IN. INSIDE FACE.

FOOTINGS:
EXPOSURE CLASS: S-2 3 IN.

INTERIOR SLABS-ON-GRADE:
EXPOSURE CLASS: N 1 1/2 IN. TOP 3/4 IN. BOTTOM

4. IN WALLS AND GRADE BEAMS, BEND ALL TOP AND INTERMEDIATE HORIZONTAL STEEL 2'-0" AROUND CORNERS, OR USE EXTRA L BARS 4'-0" LONG. ALL OPENINGS IN WALLS TO HAVE 2-15M EACH SIDE AND 2-25M OVER, EXCEPT AS NOTED.
5. ALL REINFORCING TO BE HELD IN PLACE, AND TIED BY THE USE OF PROPER ACCESSORIES, SUCH AS HI-CHAIRS, SPACERS, ETC. TO BE SUPPLIED BY THE REINFORCING STEEL FABRICATOR. HI-CHAIRS TO HAVE 4 LEGS AND TO BE STAPLED OR NAILED TO THE FORMWORK.
6. ALL OPENINGS IN CAST-IN-PLACE CONCRETE FLATWORK TO BE TRIMMED WITH 2-15M ALL AROUND ON BOTH FACES, EXCEPT AS NOTED.
7. ALL MISCELLANEOUS CONCRETE PADS AND CURBS ARE TO BE REINFORCED WITH A MINIMUM OF 10M AT 400 MM 16 IN. O/C EACH WAY, UNLESS NOTED.

III FORMWORK

1. UNLESS NOTED OTHERWISE PROVIDE SLIP JOINT AT ALL PAVING OR CONCRETE SLABS ON GRADE AGAINST STRUCTURAL MEMBERS WITH 1/2 IN. ASPHALT IMPREGNATED FIBREBOARD.
2. ALL CONSTRUCTION JOINT KEYS ARE TO BE A MINIMUM OF 1 1/2 IN. DEEP.
3. PLACE 10 MIL POLYETHYLENE UNDER ALL SLABS ON FILL.

WOOD

1. ALL WOOD TO BE NO.1/NO.2 SPF. ALL WOOD TO BE KILN DRIED.
2. ALL WALLS TO BE ADEQUATELY BRACED UNTIL SHEATHING INSTALLED ON WALLS, FLOOR BELOW AND STRUCTURES ABOVE.

3. THE BOTTOM PLATE AT THE MAIN FLOOR IS TO BE BOLTED TO THE FOUNDATION WITH A MINIMUM OF 5/8" DIAMETER ANCHOR BOLTS X 8 IN. LONG AT 32 IN. O/C.
4. NAILING PATTERNS AND NAIL LENGTHS SHALL CONFORM TO TABLE 9.23.3.4. AND 9.23.3.5. OF THE NATIONAL BUILDING CODE RESIDENTIAL STANDARDS.
5. PLYWOOD SUB-FLOORING AND SHEATHING SHALL BE EXTERIOR DOUGLAS FIR PLYWOOD CONFORMING TO THE LATEST EDITION OF CSA 0121 "DOUGLAS FIR PLYWOOD" UNLESS OTHERWISE NOTED.
6. ALL WOOD TRUSSES ARE TO BE DESIGNED IN ACCORDANCE WITH:
- A) THE LATEST EDITION OF CAN/CSA 086 "ENGINEERING DESIGN IN WOOD".
B) THE NATIONAL BUILDING CODE OF CANADA.
C) FOR ANY ANTICIPATED SNOW BUILD-UP LOADS.
7. TRUSSES FRAMING INTO BEAMS OR OTHER TRUSSES SHALL BE CONNECTED WITH PROPER METAL FRAMING ACCESSORIES APPROVED BY THE PROJECT ENGINEER.
8. THE TRUSS SUPPLIER IS TO SUBMIT ENGINEERING DRAWINGS BEARING THE SEAL OF A ENGINEER REGISTERED IN THE PROVINCE OF SASKATCHEWAN TO THE PROJECT ENGINEER FOR REVIEW PRIOR TO FABRICATION. ENGINEERING SHOP DRAWINGS SHALL INCLUDE A LAYOUT PLAN SHOWING ALL TRUSSES, PERMANENT WEB AND CHORD BRACING REQUIRED BY TRUSS DESIGN, AND TEMPORARY BRACING. ALL MISCELLANEOUS METAL FRAMING CONNECTORS AND BRACING NOTED ABOVE SHALL BE SPECIFIED BY TRUSS SUPPLIER AND SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR.

NOTE: TRUSS SUPPLIER SHALL INCLUDE IN CONTRACT PRICE ALLOWANCE FOR FINAL INSPECTION AND A LETTER SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF SASKATCHEWAN CERTIFYING THAT TRUSSES ARE CONSTRUCTED AND ERECTED AS PER TRUSS SUPPLIER'S DESIGN ASSUMPTIONS AND INSTALLATION REQUIREMENTS.

NOTE: IN PREPARATION OF TRUSS DESIGNS, THE WEB ORIENTATIONS, LUMBER GRADE AND MEMBER SIZES EMPLOYED ARE TO MINIMIZE THE REQUIREMENT FOR WEB BRACING.

9. ALL JOISTS OR BEAMS FLUSH FRAMED INTO OTHER BEAMS SHALL BE CONNECTED USING METAL JOIST OR BEAM HANGERS.
10. DESIGN LOADS FOR TRUSSES ARE AS INDICATED ON DRAWINGS, AND TO APPLICABLE BUILDING CODES.



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STRUCTURAL 31709 [Signature]

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0	ISSUED FOR CONSTRUCTION	31 MAR 2015

Client

RCMP
Real Property

Project title

RCMP RESIDENTIAL
Carrot River, SK

MOBILE HOME DESIGN
TYPE 'B'

Approved by

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Drawn by
WDB

Project Manager
RD

Client
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Drawing title

GENERAL NOTES

SCALE: AS NOTED

Project No.	Sheet	Revision no./
92	S500	0