

NOTES:

GENERAL

CHECK ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND REPORT DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.

COORDINATE WORK WITH ARCHITECTURAL DRAWINGS AND REPORT ANY INCONSISTENCIES TO THE DEPARTMENTAL REPRESENTATIVE PRIOR TO PROCEEDING WITH THE WORK.

ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL BUILDING CODE (NBC 2010) AND ALL REGULATIONS AS SET OUT BY LOCAL AUTHORITIES HAVING JURISDICTION, IN CASE OF CONFLICT OR DISCREPANCY, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

SUBSTITUTION FROM SPECIFIED PRODUCTS AND MATERIALS MUST BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE. THE CONTRACTOR SHALL REIMBURSE THE DEPARTMENTAL REPRESENTATIVE FOR ADDITIONAL COSTS INCURRED AS A RESULT OF REVIEWING ANY CHANGES TO THE CONTRACT DOCUMENTS.

SHOP DRAWINGS SHALL BE STAMPED BY AN ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF NEW BRUNSWICK AND SHALL BE SUBMITTED FOR REVIEW.

FOUNDATION

THE DESIGN OF THE FOUNDATION SYSTEM HAS BEEN BASED ON ASSUMED SUITABLE SOIL CONDITIONS. (i.e. SOUND, WELL-CONSOLIDATED WELL-DRAINED NON-EXPANSIVE IN-SITU MATERIALS CAPABLE OF SUPPORTING A MINIMUM OF 150 KPa. (3000 PSF.) SPECIFIED LOAD AT THE FOOTING LEVEL WITH NEGLIGIBLE LONG-TERM OR DIFFERENTIAL SETTLEMENTS). ACTUAL SOIL CONDITIONS SHALL BE FIELD VERIFIED AT TIME OF CONSTRUCTION.

ALL CONCRETE FORMWORK SHALL BE TO THE REQUIREMENTS OF CAN/CSA A23.1-09/A23.2-09.

FORMS FOR WALLS AND FOOTINGS TO REMAIN IN PLACE FOR A MINIMUM OF 3 DAYS.

FOUNDATION ELEVATIONS SHALL BE ESTABLISHED IN FIELD AT TIME OF CONSTRUCTION.

EXCAVATION

PROVIDE ADEQUATE PROTECTION TO ALL SURVEY AND LAYOUT MARKERS, BENCH MARKS AND EXISTING FACILITIES, EQUIPMENT, ETC.

EXCAVATE TO ELEVATIONS INDICATED AND TO WELL DEFINED LINES SUFFICIENT TO ALLOW INSTALLATION, CONSTRUCTION AND INSPECTION OF WORK WITH MINIMUM FILL.

EXCAVATIONS SHALL BE LEVEL, DRY, FREE OF LOOSE OR ORGANIC MATTER.

PROTECT BOTTOM OF EXCAVATION FROM SOFTENING. SOFTENED SOIL SHALL BE REMOVED AND REPLACED WITH DENSE STRUCTURAL FILL COMPACTED TO 95% OF MODIFIED PROCTOR.

STOCKPILE EXCAVATED MATERIAL SO AS TO NOT INTERFERE WITH SITE OPERATIONS OR DRAINAGE.

CORRECT UNAUTHORIZED EXCAVATION UNDER BEARING SURFACES AND OTHER AREAS WITH DENSE STRUCTURAL FILL COMPACTED TO 95% OF MODIFIED PROCTOR, AT NO EXTRA COST.

BACKFILL

DO NOT COMMENCE BACKFILLING UNTIL AREAS OF WORK TO BE BACKFILLED HAVE BEEN INSPECTED & APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.

AREAS TO BE BACKFILLED SHALL BE FREE OF DEBRIS, SNOW, ICE, WATER OR FROZEN GROUND.

BACKFILL ONLY WITH MATERIAL APPROVED BY THE DEPARTMENTAL REPRESENTATIVE IN CONTINUOUS HORIZONTAL LAYERS NOT EXCEEDING 300mm LOOSE DEPTH AND COMPACT AS REQUIRED.

BACKFILL SIMULTANEOUSLY EACH SIDE OF WALLS. BRACE OR SHORE TO COUNTERACT UNBALANCED PRESSURES. DO NOT REMOVE UNTIL AUTHORIZED BY THE DEPARTMENTAL REPRESENTATIVE.

IN-SITU MATERIALS SHALL BE PROOF-ROLLED PRIOR TO PLACING OF BACKFILL. QUALITY, BEARING CAPACITY AND COMPACTION OF BOTH IN-SITU AND BACKFILL MATERIALS SHALL BE FIELD CONFIRMED BY A QUALIFIED GEOTECHNICAL ENGINEER AT TIME OF CONSTRUCTION.

SEE ARCHITECTURAL FOR DAMPROOFING, VAPOR BARRIER, INSULATION AND PERIMETER DRAINAGE REQUIREMENTS.

COMPACT COMMON FILL TO 95% OF MODIFIED PROCTOR.

UNDER CONCRETE SLABS, PROVIDE A MINIMUM 150mm LAYER OF 19mm MINUS CRUSHED GRAVEL. THE CRUSHED GRAVEL SHALL BE COMPACTED TO A MINIMUM 95% OF ITS MODIFIED PROCTOR MAXIMUM DRY DENSITY.

REINFORCED CONCRETE NOTES

ALL CONCRETE WORK SHALL BE TO THE REQUIREMENTS OF CSA A23.1-09/A23.2-09/A23.3-04 (R2010) EXCEPT AS SPECIFIED OR NOTED.

CONCRETE MIXES:

EXTERIOR FOUNDATION WALLS, FOOTINGS AND INTERIOR SLAB
- EXPOSURE CLASS F-2
- MIN. COMPRESSIVE STRENGTH @ 28 DAYS: 25MPa. (3626 psi)
- AIR CONTENT: 4%-7%
- CONCRETE SLUMP: 75mm
- MAX. AGGREGATE: 19mm
- WATER CEMENT RATIO: 0.55

EXTERIOR SLAB
- EXPOSURE CLASS C-2
- MIN. COMPRESSIVE STRENGTH @ 28 DAYS: 32MPa. (4641 psi)
- AIR CONTENT: 5%-8%
- CONCRETE SLUMP: 75mm
- MAX. AGGREGATE: 19mm
- WATER CEMENT RATIO: 0.45

ADMIXTURES - OBTAIN DEPARTMENTAL REPRESENTATIVES APPROVAL BEFORE USING ADMIXTURES.

NO CONCRETE SHALL BE PLACED WITHOUT PRIOR KNOWLEDGE AND APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE.

REINFORCING STEEL, EMBEDDED PARTS, ANCHOR BOLTS, DOWELS, WATER STOPS, ETC., SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE.

REINFORCING STEEL

BARS - TO CAN/CSA-G30.18-09 GRADE 400 MPa.

WWM - TO CSA G30.14, GRADE 450 MPa.

HOOKS ARE TO BE STANDARD UNLESS NOTED OTHERWISE.

CONCRETE COVER FOR REINFORCEMENT: (TYPICAL UNLESS NOTED OTHERWISE)
A) CONCRETE POURED AGAINST GROUND SHALL BE 75mm MIN.
B) 20M BARS OR LARGER SHALL BE 50mm MIN.
C) 15M BARS OR SMALLER SHALL BE 38mm MIN.

ALL SPLICES SHALL BE CLASS "C" TENSION LAP SPLICES. NO MORE THAN 50% OF THE REINFORCING SHALL BE SPLICED AT ANY GIVEN LOCATION.

ANCHOR BOLTS

ANCHOR BOLTS - TO CAN/CSA-G40.20-04/G40.21-04 (R2009).

ANCHOR BOLTS SHALL BE SUPPLIED AND INSTALLED BY THE CONCRETE FOUNDATION CONTRACTOR.

ANCHOR BOLTS SHALL BE PLACED WITH TEMPLATES AND SHALL BE HELD RIGIDLY DURING PLACEMENT OF CONCRETE.

EPOXY

EPOXY SHALL BE A7 ACRYLIC ADHESIVE BY RED HEAD.

SLAB ON GRADE

ALL FLOOR SLAB FINISHES WILL BE AS SPECIFIED BY THE DEPARTMENTAL REPRESENTATIVE.

ALL CONCRETE SHALL BE READY-MIX AND CONFORM TO CSA/CAN3-A23.1-09.

PRIOR TO PLACING OF SLAB, ENSURE ALL SERVICES HAVE BEEN INSTALLED AND TESTED. INSTALL ALL PITS, CATCH BASINS, AS SHOWN ON ARCHITECTURAL DRAWINGS.

THE DEPARTMENTAL REPRESENTATIVE WILL ENGAGE AND PAY FOR THE SERVICES OF AN INDEPENDENT TESTING COMPANY ON A FULL TIME BASIS FOR THE DURATION OF CONCRETE SLAB CONSTRUCTION. THE INDEPENDENT COMPANY IS TO CONDUCT ON A CONTINUOUS BASIS ALL NECESSARY TESTS AND PROVIDE FIELD INSPECTION SERVICES TO ENSURE THE QUALITY OF MATERIAL AND WORKMANSHIP MEET THE SPECIFIED REQUIREMENTS.

WOOD FRAME CONSTRUCTION

ALL WOOD FRAME CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2010 NATIONAL BUILDING CODE OF CANADA AND CSA 086-09.

ALL TIMBER FRAMING SHALL BE NO. 2 GRADE OR BETTER, SPRUCE, PINE, FIR SPECIES.

LUMBER MOISTURE CONTENT SHALL NOT EXCEED 19% AT TIME OF CONSTRUCTION.

OSB, PANEL MARK 1R24 IN ACCORDANCE WITH CAN/CSA 0325-07 (R2012) CONSTRUCTION SHEATHING.

THE ROOF SYSTEM SHALL ACT AS A STRUCTURAL DIAPHRAGM. ROOF SHEATHING SHALL BE A MINIMUM 12MM THICK. LONG DIMENSION OF ROOF SHEATHING SHALL BE LAID HORIZONTALLY WITH ENDS STAGGERED 1220MM. NAIL ALL PANEL EDGES AT SUPPORTS WITH 85MM COMMON NAILS OR EQUAL SPACED AT MAXIMUM 150MM ON CENTER. NAIL SPACING AT INTERMEDIATE SUPPORTS SHALL NOT EXCEED 300MM.

ALL EXTERIOR WALLS SHALL BE CONSTRUCTED TO TRANSFER THE WIND LOADS FROM THE ROOF TO THE FOUNDATION. NAILING PATTERN FOR SHEATHING SHALL BE AS FOLLOWS:
- PANEL EDGES SHALL BE NAILED AT MAX. 150MM C/C FOR ALL SUPPORTS.
- NAIL PANELS AT MAX. 300MM C/C FOR ALL INTERMEDIATE SUPPORTS.
- USE 65MM COMMON NAILS, OR EQUAL.

AIR NAILS

EQUIVALENT NAIL SIZES SHALL BE USED WHEN SUBSTITUTING BETWEEN COMMON WIRE NAILS AND AIR NAILS.
- 3/4" AIR NAIL CAN BE USED INSTEAD OF 2 1/2" CWN.
- 3/8" AIR NAIL CAN BE USED INSTEAD OF 3" CWN.

ROOF, WALL AND FLOOR WOOD FRAMING SYSTEMS

DESIGN LOADS

ALL DESIGN LOADS SHALL BE IN ACCORDANCE WITH THE 2010 NATIONAL BUILDING CODE OF CANADA.

ROOF TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH PART 9 OF NBC2010.

ROOF LOADS: SPECIFIED DEAD LOAD (TYPICAL) = 1.00 KPA (TOTAL)
SPECIFIED SNOW LOAD SS = 2.3 KPA SR = 0.6 KPA
SPECIFIED WIND LOADS Q10 = 0.37 KPA Q50 = 0.48 KPA

MINIMUM DEAD LOADS ON ROOF TRUSS CHORDS SHALL BE AS FOLLOWS:
TC = 0.37 KPA BC = 0.63

PREFABRICATED ROOF TRUSSES

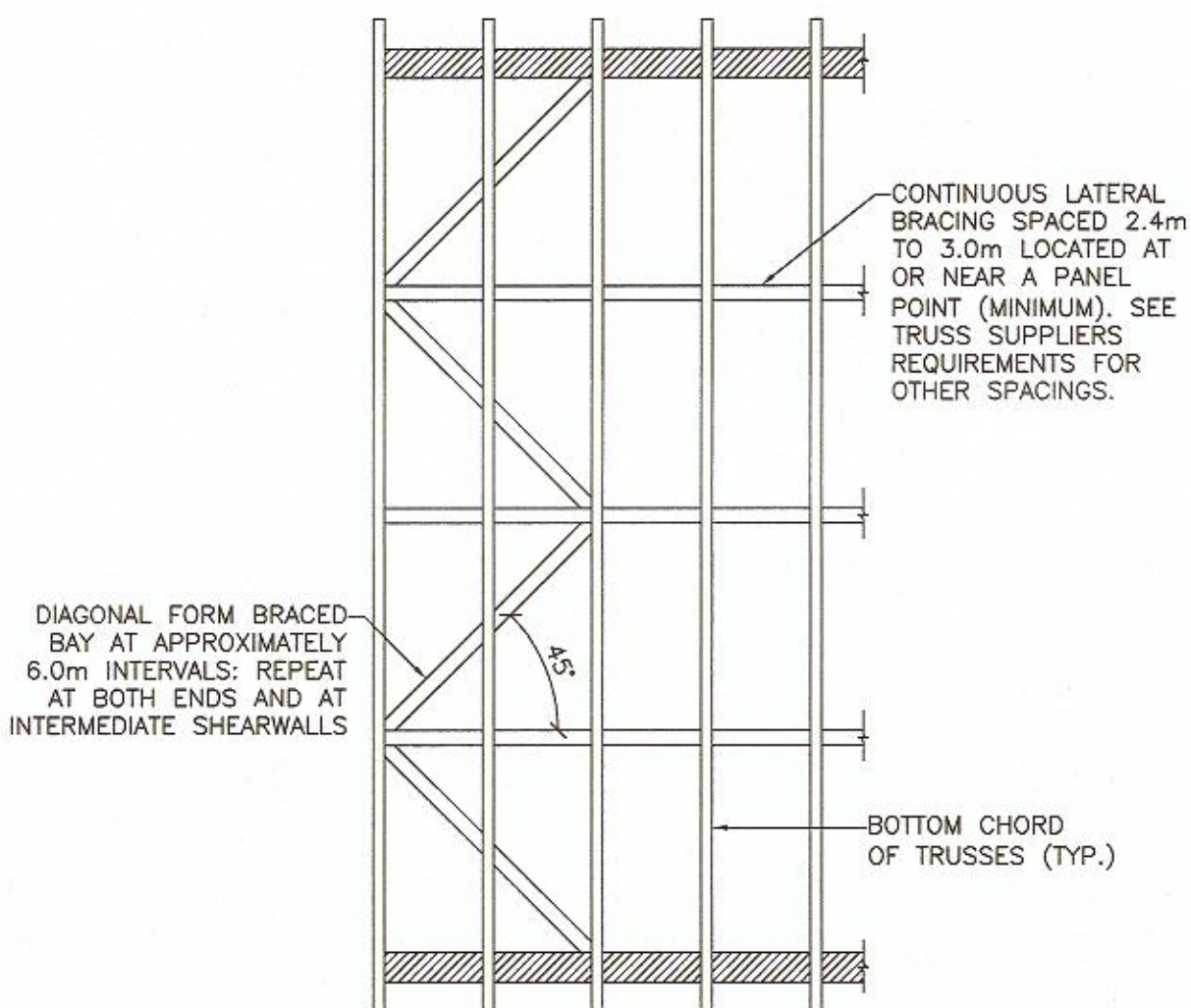
DESIGN OF ROOF TRUSS SYSTEM INCLUDING ALL BUILT-UP GIRDER TRUSSES, SCL MEMBERS, CONNECTORS AND WIND UPLIFT ANCHORS, SHALL BE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER. TRUSS MANUFACTURER SHALL PROVIDE SHOP DRAWINGS BEARING THE STAMP OF A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF NEW BRUNSWICK. SHOP DRAWINGS SHALL BE REVIEWED BY THE DESIGN DEPARTMENTAL REPRESENTATIVE PRIOR TO FABRICATION TO ENSURE THAT THE DESIGN INTENT AND LOAD PATHS HAVE BEEN CORRECTLY INTERPRETED BY THE TRUSS DESIGNER.

CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON CONNECTORS OR APPROVED EQUAL.

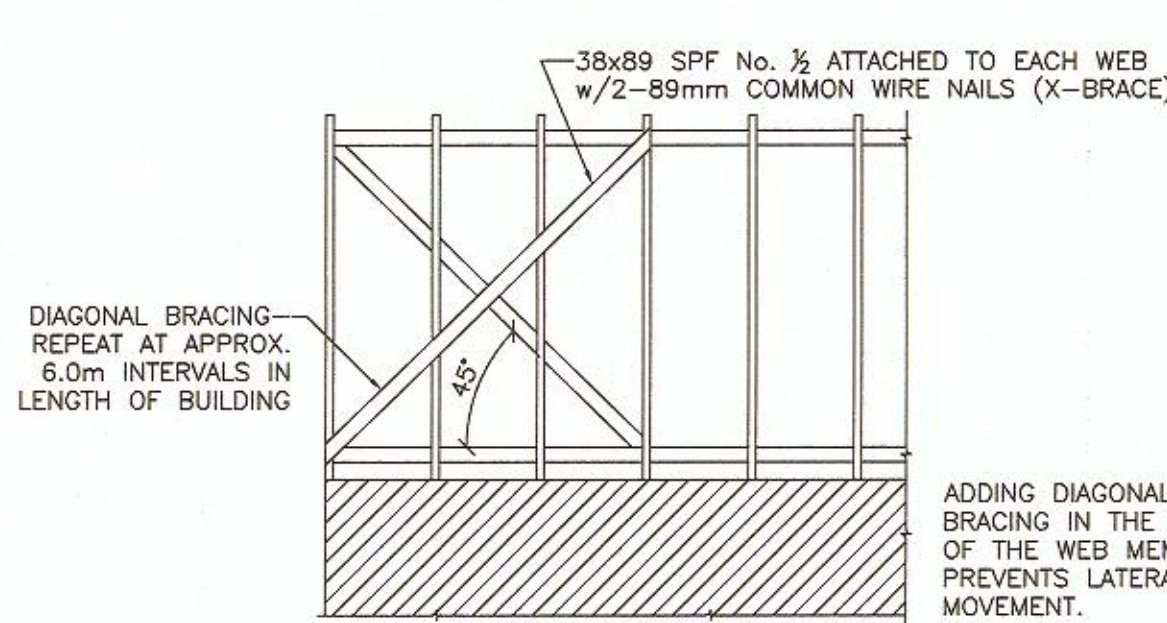
TRUSS SHOP DRAWINGS TO BE FULLY LEGIBLE AND CLEARLY SHOW DEAD AND LIVE LOADS, MEMBER SIZES, GRADE, JOINTS, SPLICES CONFIGURATION OF TRUSS, OVERHANGS, SPACING CONNECTORS AND UPLIFT ANCHORAGE, JOB LOCATION AND ALL REQUIRED ERECTION AND FINAL BRACING.

LIVE LOAD DEFLECTION OF TRUSSES TO BE LIMITED TO SPAN/360.

ROOF TRUSS UPLIFT ANCHORAGE SHALL BE DESIGNED FOR MINIMUM 20 LB/FT² (1.0 PA.) UPLIFT. PROVIDE 1 UPLIFT CONNECTOR AT EACH TRUSS BEARING POINT.



BOTTOM CHORD BRACING: THIS LATERAL AND DIAGONAL BRACING IS REQUIRED TO MAINTAIN THE PROPER TRUSS SPACING AND TO TRANSFER FORCE DUE TO LATERAL FORCES INTO THE SIDE WALLS, SHEAR WALLS OR OTHER RESISTING STRUCTURAL ELEMENTS.

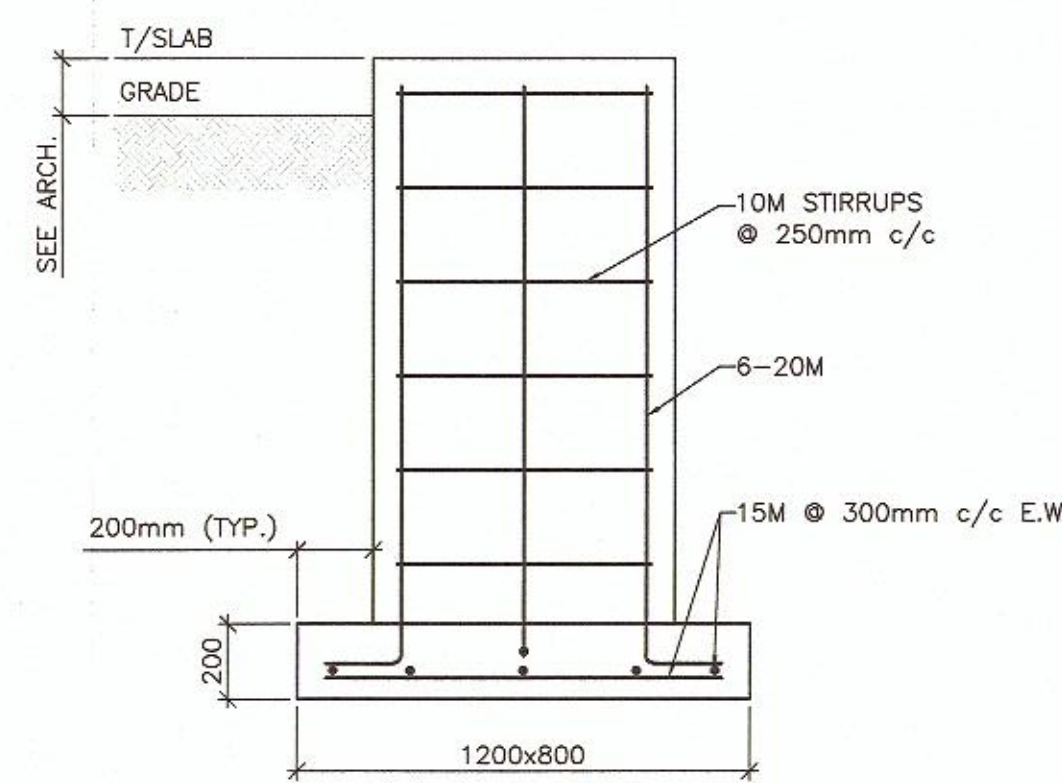
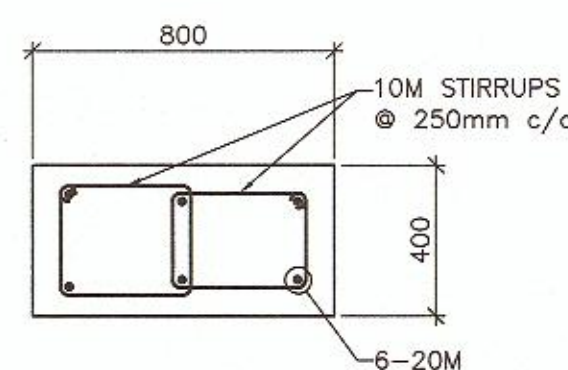


DIAGONAL WEB BRACING: THE DIAGONAL WEB BRACING SPECIFIED BY THE BUILDING DESIGNER IS USED TO HOLD THE TRUSSES IN A VERTICAL POSITION, TO MAINTAIN THE PROPER SPACING, TO DISTRIBUTE UNEQUAL LOADING TO ADJACENT TRUSSES AND TO SPREAD LATERAL FORCES TO DIAPHRAGMS OR SHEAR WALLS.

1 TRUSS BRACING DETAIL
- S2 N.T.S.

PIER/FOUNDATIONS FOR NEW WASHROOM CANOPIES

WASHROOM # 4, 7 & 11
SEE ARCHITECTURAL
FOR PLAN LOCATIONS



2 FOUNDATION
W.R. # 4, 7 & 11
SCALE 1:20

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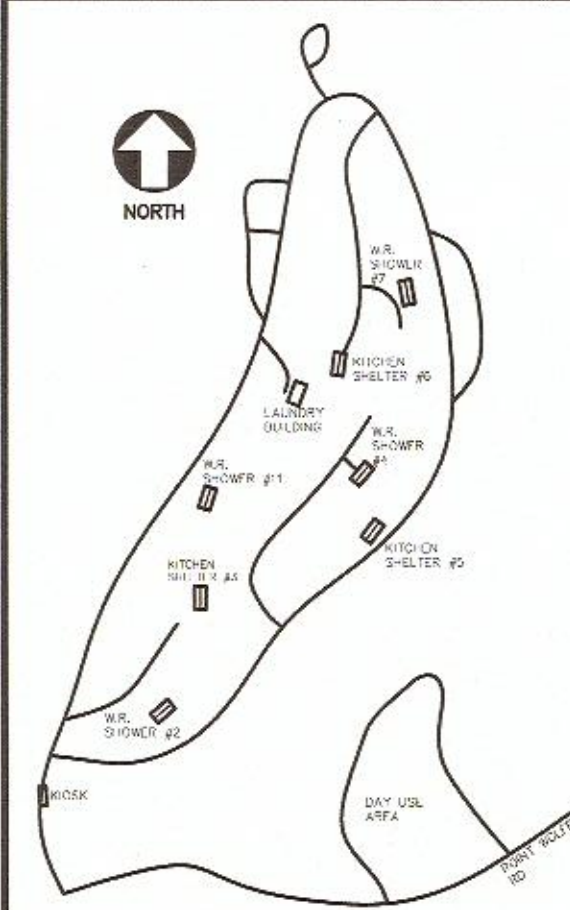
JOMA

ENGINEERING GROUP

CONSULTING ENGINEERS / INGENIEURS CONSEILS

16-062-01

NOTE:
WORK ON THIS SHEET APPLIES TO
LAUNDRY BUILDING ONLY. LOCATION
CIRCLED ON KEY PLAN BELOW.



POINT WOLFE CAMPGROUND KEY PLAN
FUNDY NATIONAL PARK
NOT TO SCALE



D	REISSUED FOR TENDER	SEPT 30 2016
C	ISSUED FOR TENDER	SEPT 13 2016
B	ISSUED FOR 99% REVIEW	JULY 28 2016
A	ISSUED FOR REVIEW	MAY 2016
revisions		date

project
**POINT WOLF
SERVICE BUILDINGS
FUNDY NATIONAL PARK
ALMA, NB**
ALBERT COUNTY, NB

drawing
**FRAMING SECTIONS,
DETAILS & NOTES
- LAUNDRY BUILDING
FOUNDATION DETAILS
- WASHROOM BUILDINGS**

designed M. GIONET conçu
date JULY 2016
drawn S. ARSENAULT dessiné
date JULY 2016
approved
date
Tender
PWSC Project Manager Administrateur de projets TPSGC
project number no. du projet
R.075852.001
drawing no. no. du dessin
S2 OF 2