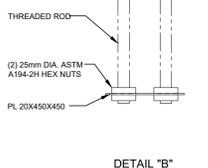
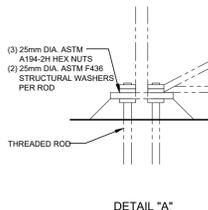
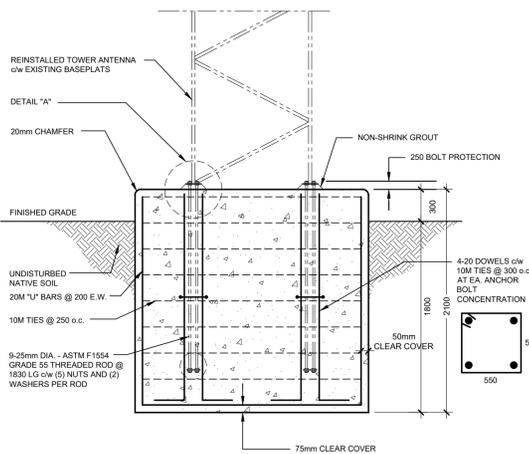
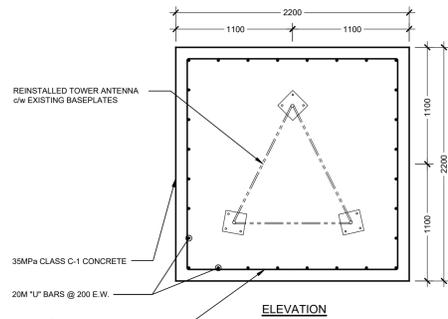


D07) CONCRETE FOUNDATION FOR EXISTING TOWER ANTENNA



D08) WOOD

D08-1 GENERAL:

1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. ALL WOOD FRAMING TO BE NL GA GR-2017 S.P.F. No. 1 OR BETTER, SURFACE DRY AT 19% MOISTURE CONTENT.
3. WOOD TRUSSES, BRIDGING AND BRACING DESIGN SHALL CONFORM TO CSA 086.19 FOR ENGINEERING DESIGN IN WOOD - LIMIT STATES DESIGN, DESIGN AND DETAIL ANCHORAGE FOR WIND UPLIFT FORCES IN ACCORDANCE WITH ONTARIO BUILDING CODE REQUIREMENTS.
4. MAXIMUM DEFLECTION UNDER TOTAL LOAD SHALL NOT EXCEED L/240 OF THE SPAN; DEFLECTION SHALL NOT EXCEED L/360 OF THE SPAN UNDER LIVE LOAD.
5. SAWN LUMBER SHALL CONFORM TO CSA 086.19 AND SHALL IDENTIFY LUMBER BY OFFICIAL GRADE MARKS (FIRE TREATED).
6. TRUSS SHOP DRAWINGS SHALL BE SINGLE SOURCE AND SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER RESPONSIBLE FOR DESIGN AND LICENSED TO PRACTICE IN ONTARIO.
7. SUBMIT DESIGN BRIEFS AND SHOP DRAWINGS TO THE DEPARTMENTAL REPRESENTATIVE FOR REVIEW PRIOR TO FABRICATION OF THE TRUSSES.
8. HOIST TRUSSES INTO POSITION IN ACCORDANCE WITH DESIGN DRAWINGS.
9. PROVIDE TEMPORARY HORIZONTAL CROSS BRACING TO HOLD TRUSSES PLUMB AND IN SAFE CONDITION UNTIL PERMANENT BRACING IS INSTALLED.
10. INSTALL PERMANENT BRACING AND RELATED COMPONENTS PRIOR TO APPLICATION OF LOADS TO TRUSSES.
11. DO NOT CUT OR REMOVE ANY TRUSS MEMBER.
12. NAILS SHALL BE ZINC COATED CONFORMING TO CSA B111.

D08-2 WOOD FRAME:

1. UNLESS NOTED OTHERWISE, JOISTS, TIMBER BEAMS, BUILT-UP BEAMS, BUILT-UP POSTS AND STUD FRAMING INCLUDING TOP AND BOTTOM PLATES SHALL BE KD SPF No.2 OR BETTER. SOLID WOOD POSTS SHALL BE D.Fir No. 1
2. THE USE OF FINGER JOINTED STUDS WILL NOT BE PERMITTED IN LOAD BEARING WALLS.
3. UNLESS NOTED OTHERWISE, ALL FRAMING, BRIDGING, BLOCKING AND NAILING SHALL BE IN ACCORDANCE WITH PART 9 OF THE 2015 NATIONAL BUILDING CODE. PROVIDE 38x38 (2'x2') BRIDGING AT 2100 (7FT) ON CENTRE FOR ALL SPANS GREATER THAN 3000 (10'-0"), WITH 13mm (1/2") GAP BETWEEN BRIDGING.
4. BUILT-UP BEAMS AND POSTS SHALL CONSIST OF MINIMUM 2 MEMBERS. MINIMUM LINTEL SHALL BE 1-89x241 (3'x9 1/2") LSL, TIMBERSTRAND OR 2-38x235 (2'x2 1/2") UNLESS NOTED OTHERWISE.
5. LAMINATE STUDS SOLID BENEATH ALL BEAM ENDS AND CARRY THROUGH TO CONCRETE FOUNDATION BELOW, UNLESS NOTED. BUILT-UP BEAMS SHALL MATCH NUMBER OF LAMINATIONS IN BUILT-UP MEMBER BEING SUPPORTED. FULLY BLOCK ALL JOIST SPACES BELOW POINT LOADS. TAKE CARE TO ENSURE BEAMS BEAR FULLY ON SUPPORTING MEMBERS.
6. INSTALL DOUBLE CRIPPLES UNDER LINTELS UNLESS NOTED OTHERWISE.
7. INTERIOR BEARING WALLS - UNLESS NOTED OTHERWISE:
 - a) MINIMUM STUD REQUIREMENTS ARE AS FOLLOWS:
 - 38x140 @ 400 (2'x6" @ 16") o.c.
 - b) ANCHOR STUD WALLS TO CONCRETE WITH 190x250 (5/8"x10") ANCHOR BOLTS WITH 75mm (3") HOOK AT 1200 (4'-0") MAXIMUM AND AT 200 (8") FROM END AND CORNER OF WALLS AND EDGE OF WINDOW/DOOR OPENINGS, UNLESS OTHERWISE NOTED. ALTERNATIVELY, CONTRACTOR MAY USE 180 (3/4") EPOXY ADHESIVE ANCHORS WITH 200mm (8") EMBEDMENT.
 9. SHEATHING - REFER TO ARCH FOR WALL AND ROOF SHEATHING.
 - a) WALL SHEATHING: COMPOSITE OSB WITH NAILS AND APPROPRIATE NAILER RECOMMENDED BY MANUFACTURER @ 100mm (4") ON CENTRE AT SHEET EDGES AND @ 300mm (12") ON CENTRE AT INTERMEDIATE STUDS. ALL UNSUPPORTED EDGES SHALL BE BLOCKED WITH 38x89 (2'x4") BLOCKING ON FLAT AND NAILED AS ABOVE. DRILL ADEQUATE HOLES IN EXTERIOR WALLS FOR VENTILATION. REFER TO ARCHITECTURAL FOR THICKNESS.
 - b) ROOF SHEATHING: 13mm (1/2") T&G PLYWOOD, FASTEN TO DECKING WITH 65mm (2 1/2") NAILS @ 150mm (6") ON CENTRE AT SHEET EDGES AND @ 250mm (10") o.c. AT INTERMEDIATE SUPPORTS.
 - c) FLOOR SHEATHING: 19mm (3/4") T&G PLYWOOD GLUE AND FASTEN WITH 65mm (2 1/2") NAILS @ 150mm (6") ON CENTRE AT SHEET EDGES AND @ 250mm (10") o.c. AT INTERMEDIATE SUPPORTS.
10. UNLESS NOTED OTHERWISE, USE SIMPSON CONNECTORS OR APPROVED EQUIVALENT WHERE REQUIRED. ALL NAIL HOLES IN CONNECTORS, INCLUDING STRAPS, TO BE FILLED WITH NAIL TYPE SPECIFIED BY THE HARDWARE SUPPLIER. USE JOIST HANGERS (MINIMUM 1000 kg CAPACITY) OR FULLY NAILED PRESSURE BLOCK FOR ALL FLUSH FRAMING.
11. STEEL HARDWARE SHALL BE ASTM A36 OR BETTER AND BOLTS SHALL BE A307, HOT DIPPED GALVANIZED. ALL BOLTS AND LAG BOLTS BEARING AGAINST TIMBER SHALL HAVE STANDARD "CUT" (OVERSIZED) WASHERS UNO.
12. LAG BOLTS SHALL HAVE THREAD OVER MINIMUM HALF THE BOLT LENGTH, AND SHALL HAVE SHARP THREADS. DULL THREAD LAG BOLTS WITH INSUFFICIENT THREAD LENGTH WILL BE IMMEDIATELY REJECTED.
13. RE-TIGHTEN ALL ACCESSIBLE BOLTS WHERE TIMBER SHRINKAGE MAY HAVE OCCURRED AT END OF PROJECT.
14. ALL TIMBER SPECIFIED AS "TREATED" TO BE PRESSURE TREATED ACCORDING TO CAN/CSA-086 SERIES-15 "WOOD PRESERVATION".

WOOD ACCESSIBLE TO REGULAR USER CONTACT: THIS WOULD INCLUDE PLAY STRUCTURES, PLAY AREA DECKS, GUARDRAILS AND OTHER PRESERVED WOOD SURFACES THAT CAN BE TOUCHED BY THE USERS ON A REGULAR BASIS. TREAT USING ACQ OR AC VACUUM PRESSURE IMPREGNATION TO BE 0.4 pf OR TO REFUSAL.

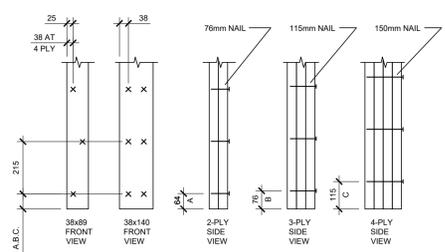
WOOD NOT ACCESSIBLE TO REGULAR USER CONTACT: THIS WOULD INCLUDE STRUCTURES CONCEALED OR NOT COMMONLY ACCESSIBLE TO USER CONTACT SUCH AS WALL, SILL PLATES, SLEEPERS, SOIL RETAINING STRUCTURES AND TRAFFIC DECKS. TREAT USING CCA VACUUM PRESSURE IMPREGNATION TO BE 0.4 pf OR TO REFUSAL.

FIELD APPLY MATCHING PRESERVATION TO EQUIVALENT STANDARDS TO ALL AREAS CUT OR DRILLED.

D08-3 STRUCTURAL COMPOSITE LUMBER - PSL, LVL AND LSL:

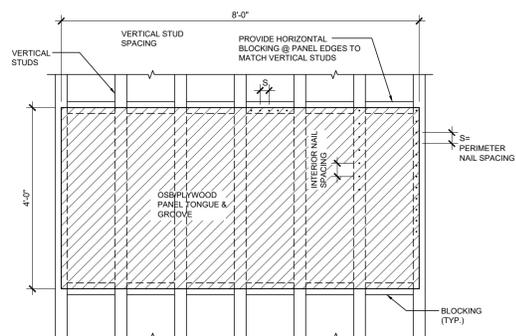
1. WHERE SPECIFIED ON DRAWINGS, THE FOLLOWING STRUCTURAL COMPOSITE LUMBER PRODUCTS ARE ACCEPTABLE:

PSL (PARALLEL STRAND LUMBER)	1) 2.0E PSL
LVL (LAMINATED VENEER LUMBER)	1) 1.9E LVL
LSL (LAMINATED STRAND LUMBER)	1) 1.5E LSL
2. STRUCTURAL COMPOSITE LUMBER SHALL BE IDENTIFIED WITH NAME AND PLANT NUMBER OF THE MANUFACTURER, GRADE OF LUMBER, NER OR COMC REPORT NUMBER AND NAME OF QUALITY CONTROL AGENCY.
3. SUBSTITUTION OF THE ABOVE STRUCTURAL COMPOSITE LUMBER IS PERMITTED ONLY WITH THE DEPARTMENTAL REPRESENTATIVE'S WRITTEN APPROVAL.
4. MANUFACTURER IS RESPONSIBLE TO SUPPLY ALL STEEL HANGERS AND BRACKETS REQUIRED TO SUPPORT THE MEMBERS.
5. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR HANDLING, STORAGE, INSTALLATION AND DETAILING OF STRUCTURAL COMPOSITE LUMBER, INCLUDING FASTENING OF MULTIPLE LAMINATIONS.
6. ALL EXPOSED PSL SHALL BE ARCHITECTURAL QUALITY FINISHED UNLESS NOTED OTHERWISE.



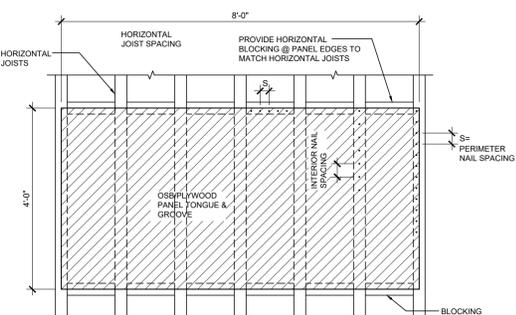
1. TYPICAL NAILING FOR BUILT-UP COLUMNS

TYPICAL SHEARWALL SHEATHING DETAIL



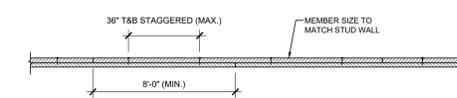
- NOTE:
- ALL PANEL EDGES BACKED BY TWO 38 (2") OR WIDER FRAMING, DEPTH TO MATCH STUD WALL.
 - SHEATHING PANELS INSTALLED EITHER HORIZONTALLY OR VERTICALLY.
 - TIE DOWN DETAILS LOCATED AT EA. END OF SHEAR WALL UN OTHERWISE.

TYPICAL BLOCKED DIAPHRAGM SHEATHING DETAIL

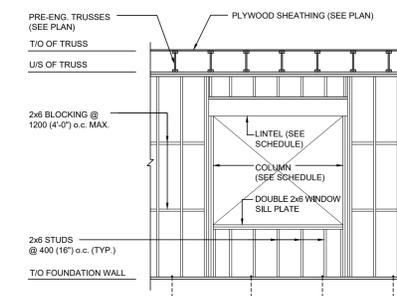


- NOTE:
- ALL PANEL EDGES SHALL BE SUPPORTED BY 38x89 (2'x4) ON FLAT (TYPICAL).

DETAIL: WALL DOUBLE TOP PLATE SPLICES AND NAILING (TYPICAL)



TYPICAL WINDOW FRAMING ELEVATION



D09) SECONDARY COMPONENTS AND THEIR ATTACHMENTS:

1. SECONDARY COMPONENTS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
 - a) ARCHITECTURAL COMPONENTS SUCH AS GUARD AND HAND RAILS, FLAG POSTS, CANOPIES, CEILINGS, ETC.
 - b) SITE WORK ELEMENTS EXTERIOR TO THE BASE BUILDING SUCH AS LANDSCAPING COMPONENTS, POOLS, SIGNS, AND CIVIL WORK.
 - c) GLAZING, WINDOW MULLIONS, GLAZING AND STORE FRONTS.
 - d) SKYLIGHTS AND GLASS CANOPIES.
 - e) ATTACHMENTS AND BRACING FOR ELECTRICAL AND MECHANICAL COMPONENTS.
 - f) GLASS BLOCK INCLUDING ATTACHMENTS.
 - g) ELEVATORS.
 - h) ARCHITECTURAL PRECAST AND PRECAST CLADDING.
 - i) WINDOW WASHING EQUIPMENT AND ITS ATTACHMENTS.
 - j) INTERIOR AND EXTERIOR LIGHT GAUGE STEEL STUD WALLS.
 - k) ROOFING MATERIAL.
 - l) ARCHITECTURAL BRICK VENEER.
2. DESIGN AND DETAILING OF THE ABOVE ITEMS AND THEIR ATTACHMENTS ARE NOT THE RESPONSIBILITY OF THE ENGINEER. THEY SHALL BE DESIGNED BY SPECIALTY STRUCTURAL ENGINEERS RETAINED BY CONTRACTOR, WHO WILL SEAL ALL RELATED SHOP DRAWINGS, REVIEW THE COMPONENTS IN THE FIELD AND PROVIDE ALL REQUIRED SEALED LETTERS TO THE AUTHORITIES HAVING JURISDICTION.
3. SECONDARY OR NON-STRUCTURAL COMPONENTS AND THEIR ATTACHMENTS SHALL BE DESIGNED IN ACCORDANCE WITH PART 4 OF THE BUILDING CODE.
4. SEALED SHOP DRAWINGS OF THE SECONDARY OR NON-STRUCTURAL COMPONENTS WHICH MAY AFFECT THE PRIMARY STRUCTURAL SYSTEM SHALL BE SUBMITTED TO THE ENGINEER ONLY FOR THE REVIEW OF THEIR EFFECT ON THE PRIMARY STRUCTURAL SYSTEM. SUBCONTRACTOR OF THESE COMPONENTS IS RESPONSIBLE FOR PROTECTION OF ALUMINUM-STEEL CONNECTIONS AGAINST GALVANIC CORROSION.
5. IN ADDITION TO CONSTRUCTION TOLERANCE, NON-STRUCTURAL COMPONENTS SHALL BE DETAILED FOR THE FOLLOWING BUILDING MOVEMENT AND DEFLECTION:
 - a) VERTICAL DEFLECTIONS OF BEAMS, SLABS AND DECKING:
 - ± 20mm (3/4")
 - DIFFERENTIAL DEFLECTIONS OF EDGE BEAMS AND EDGES OF SLABS: ± 16mm (5/8")
 - b) HORIZONTAL DRIFT DURING WIND AND EARTHQUAKE BETWEEN FLOORS:
 - DRIFT WITHOUT DAMAGE TO NON-STRUCTURAL COMPONENTS: ± 13mm (1/2")
 - DRIFT WITHOUT COLLAPSE OF NON-STRUCTURAL COMPONENTS: ± 50mm (2")
 - c) MOVEMENT AT EXPANSION JOINTS:
 - PERPENDICULAR: ±50mm (2")
 - PARALLEL: ±50mm (2")
 - VERTICAL: ±25mm (1")



revision	description	date
05	ISSUED FOR TENDER	17 DEC 2020
04	ISSUED FOR 100% COORDINATION	07 OCT 2020
03	RE-ISSUED FOR 99% COORDINATION	30 JUNE 2020
02	ISSUED FOR 99% COORDINATION	30 January 2020
01	ISSUED FOR 66% COORDINATION	28 March 2019

Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

Detail No.	where detail required
A	drawing no. - ou detail exigé
B	descrip. no. - ou detail exigé
C	drawing no. - where detailed
	descrip. no. - ou detailé

project title
titre du projet
COBOURG ON
COBOURG CITY

project title
titre du dessin
COBOURG SEARCH AND RESCUE STATION

GENERAL NOTES AND DETAILS

drawn by dessiné par	WL	project manager administrateur de projets
designed by conçu par	JV	
approved by approuvé par	JV	
bid offre	DFO PROJECT MANAGER	
project date date du projet	05-03-2019	
project no. no. du projet	R.084112.005	
drawing no. dessiné no.	S002	