GENERAL NOTES

- 1. FENCE PRECAST POST AND PILE HAS BEEN DESIGNED IN ACCORDANCE WITH CANADIAN HIGHWAY BRIDGE DESIGN CODE CSA-S6-14 CLAUSE 3.10, IBC BUILDING CODE 2021 CLAUSE 1807.3.2.1, CSA/CAN A23.3 AND ACI 319-19.
- 2. CONTRACTORS, SUPPLIERS, SUBTRADES, ETC. ARE TO ENSURE THAT THEY ARE WORKING ON CURRENT DRAWINGS AND SHOULD VERIFY THAT THEY ARE IN POSSESSION OF THE LATEST ISSUE. DISREGARD OBSOLETE DRAWINGS. DO

3. SPECIFIED LOADS (N	NOT factored):	
IMPORTANCE CATEGORY		= NORMAL
ROOF:	DEAD LOAD SNOW LOAD Ss Sr Cb Is	= SELF-WEIGHT OF SUPER STRUCTURE = 2.62 kPa (54.7 psf) = 2.4 kPa (50.1 psf) = 0.7 kPa (14.6 psf) = 0.8 = 1.0
WIND:	1/25 q (AGASSIZ) lw Ce Ch Cv	= 0.675 kPa (14.1 psf) = 1.0 (ULS); 0.75 (SLS) = 1.0; Cg = 2.5 = 2.0 (HORIZONTAL DRAG COEFFICIENTS) = 1.0 (VERTICAL LOAD COEFFICIENTS)
FOUNDATION PILE	Гs К	= 20 kN/m² (ASSUMED) = 0.5 (AT REST)

NOT BUILD FROM DRAWINGS UNLESS THEY INDICATE "ISSUED FOR CONSTRUCTION".

- = 30° (FRICTION ANGLE) = 23.573 kPa/m (150 psf/ft) (LATER BEARING PRESSURE) 4. PILE FOUNDATION HAS BEEN DESIGNED FOR AN ASSUMED ALLOWABLE BEARING CAPACITY OF 96 kPa (2000psf) TO BE
- CONFIRMED BY GEOTECH. ENG. EACH FOUNDATION DETAILS SHOULD BE CONFIRMED ON A SITE SPECIFIC ANALYSIS. 5. ALL PRODUCTS SPECIFIED ON DRAWINGS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN
- 6. IF ANY ITEMS ON THE DRAWING ARE UNCLEAR THE OWNER/CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE ENGINEER PRIOR TO STARTING WORK.
- 7. DO NOT SCALE DRAWINGS
- 8. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING AND SHORING REQUIRED FOR CONSTRUCTION LOADING AND STABILITY UNTIL THE PROJECT IS COMPLETED.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL ROOF RAINWATER AND FOUNDATION DRAINS ARE DISCHARGED IN ACCORDANCE WITH LOCAL AUTHORITY HAVING JURISDICTION
- 10. ALL MECHANICAL, ELECTRICAL, PLUMBING, VENTILATION AND DRAINING DESIGN SHALL BE PERFORMED BY OTHERS IF REQUIRED BY THE LOCAL AUTHORITY.
- 11. ALL WORK TO BE IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND B.C. BUILDING CODE. ALL CHANGES SHALL BE FORWARDED TO ECORA PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 12. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH MUNICIPAL BY-LAWS, B.C.B.C. 2018 AND WORKSAFE REGULATIONS.
- 13. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS PRIOR TO STARTING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCY BETWEEN STRUCTURAL DRAWINGS AND ARCHITECTURAL DRAWINGS. ANY DISCREPANCIES NOT REPORTED BECOME THE RESPONSIBILITY OF THE CONTRACTOR.
- 14. IF SITE CONDITIONS DIFFER FROM THOSE ANTICIPATED OR AS SHOWN ON THE DRAWINGS (BUILDING, BUILDING COMPONENTS, PROPERTY LINES, SOIL CONDITIONS ETC.), THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER FOR CORRECTIVE OR REMEDIAL WORK. FAILURE TO NOTIFY ENGINEER WILL MAKE THE CONTRACTOR RESPONSIBLE FOR ALL CONDITIONS AND COSTS ASSOCIATED.
- 15. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE CORRECTION OF DEFICIENCIES AS DIRECTED BY THE ENGINEER.
- 16. CONTRACTOR MUST ENSURE THAT CONSTRUCTION LOADS IMPOSED ON THE STRUCTURE DO NOT EXCEED THE SPECIFIED LOADS NOTED ABOVE.

FOUNDATION

- 4. EXCAVATIONS FOR FOUNDATIONS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER AND APPROVED FOR THE DESIGN BEARING PRESSURE BEFORE FOUNDATION CONCRETE IS PLACED.
- 5. NOTIFY GEOTECHNICAL ENGINEER UPON COMMENCEMENT OF EXCAVATION AND COORDINATE ALL REQUIRED INSPECTIONS WITH THEM. CONFIRMATION OF FOUNDATION BEARING CAPACITIES IS THE RESPONSIBILITY OF THE GEOTECHNICAL ENGINEER AND APPROVAL TO POUR FOOTINGS BY THE STRUCTURAL ENGINEER DOES NOT IMPLY ACCEPTANCE OF BEARING CAPACITY OR SUBGRADE CONDITIONS. IN ANY EVENT, FOOTINGS ARE TO BEAR ON FIRM, UNDISTURBED MATERIAL. GRASS, ROOTS, ROOT NETWORKS, TOP SOIL, ETC. ARE TO BE REMOVED FROM FOUNDATION AREA. ANY FOOTINGS BEARING ON COMPACTED, GRANULAR FILL SHALL BE AS SPECIFIED BY THE GEOTECHNICAL ENGINEER AND SHALL BE INSPECTED BY GEOTECHNICAL ENGINEER.
- 6. FOUNDATION BEARING SURFACES MUST BE PROTECTED FROM FREEZING AT ALL TIMES OTHERWISE.
- 7. FOOTING TO BE CENTERED UNDER COLUMNS AND WALLS UNLESS NOTED OTHERWISE.
- 8. ENGINEERED DESIGNS AND INSPECTIONS OF ANY EXCAVATION, SLOPE STABILITY, DEWATERING AND TEMPORARY SHORING, IF REQUIRED SHALL BE APPROVED AND PROVIDED BY THE CONTRACTOR
- 9. PROVIDE DRAINAGE BEHIND ALL STRUCTURAL WALLS WITH DRAIN TILES TIED INTO MECHANICAL DRAINAGE SYSTEM.
- 10. THE CONTRACTOR SHALL REVIEW PROCEDURES AND METHODS OF DRAINAGE OF ALL BACKFILLED WALLS AND UNDER SLAB DRAINS WITH THE GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL CONFIRM THE BACKFILL LOAD PRESSURE RECOMMENDATIONS USED FOR DESIGN PRIOR TO PROCEEDING WITH CONSTRUCTION OF BACKFILLED

CONCRETE

1. CONCRETE SHALL BE IN ACCORDANCE WITH CSA A23.1 & "CONCRETE MIX DESIGN REQUIREMENTS" TABLE.

CONCRETE MIX DESIGN REQUIREMENTS		
CONCRETE TYPE	FOOTINGS, FOUNDATION WALLS, COLUMNS, PIERS	
CSA EXPOSURE CLASS	F-1	
MIN 28 DAY COMPRESSIVE STRENGTH, MPa	32 (FOOTING) & 35 (FENCE POST)	
MIX W/CM RATIO	0.5	
MAX AGGREGATE SIZE, mm	19	
CEMENT TYPE	GU	
AIR CONTENT, %	5-8%	
CURING	TYPE 2	

- *CONTRACTOR TO CONFIRM PRIOR TO POURING SLAB THAT ANY SEALER OR TOPPING APPLIED TO THE CONCRETE SLAB IS COMPATIBLE WITH THE SPECIFIED AIR CONTENT.
- 2. PROVIDE 19mm (3/4") CHAMFER ON ALL EXPOSED CORNERS.
- 3. MIXING & PLACING OF CONCRETE SHALL BE IN ACCORDANCE WITH CSA A23.1.
- 4. REINFORCING BARS SHALL BE DEFORMED BAR TO CSA G30.18 GRADE 400 MPa.
- 5. CONCRETE SHALL BE PLACED IN ACCORDANCE WITH CSA A23.1 IF AIR TEMP. IS AT OR BELOW 5°C OR AT OR ABOVE 27°C. (CL. 7.4.1.5 AND CL. 7.4.1.4 RESPECTIVELY)
- 6. CONCRETE SHALL BE TESTED BY A THIRD PARTY AGENCY IN ACCORDANCE WITH CSA A23.2
- 7. UNLESS OTHERWISE NOTED, PROVIDE CLEAR CONCRETE COVER TO REBAR AS FOLLOWS:
- a) SURFACES POURED AGAINST GROUND 75mm (3") b) FORMED SURFACES EXPOSED TO GROUND OR WEATHER 50mm (2")
- c) OTHER FORMED SURFACES, SLABS AND WALLS 25mm (1") d) BEAMS AND COLUMNS 40mm (1 1/2")
- 8. EMBEDDED MATERIALS SHALL BE FREE FROM GREASE, SCALE, AND OTHER COATINGS.
- 9. STEEL FOR ANCHOR BOLTS SHALL COMPLY WITH ASTM F1554 GR36 UNLESS NOTED OTHERWISE ON THE DRAWINGS
- 10. REFER TO ARCHITECTURAL, MECHANICAL AND/OR ELECTRICAL DRAWINGS (AS APPLICABLE) FOR HOLES, NAILERS, INSERTS, ETC. THAT ARE REQUIRED TO BE CAST INTO THE CONCRETE.

FIELD REVIEWS

OWNER TO ENGAGE GEOTECHNICAL ENGINEER TO CONDUCT FIELD REVIEWS OF EXCAVATION AND STRUCTURAL FILL. FINAL DOCUMENTATION TO BE FORWARDED TO ECORA PRIOR TO REVIEWING THE FOUNDATIONS.

FIELD REVIEW IS AT THE PROFESSIONAL DISCRETION OF ECORA ENGINEERING & RESOURCE GROUP LTD. IS TO ASCERTAIN GENERAL COMPLIANCE WITH THE STRUCTURAL PLANS & SUPPORTING DOCUMENTS FOR THE INTEGRITY OF THE PRIMARY STRUCTURAL COMPONENTS OF THE BUILDING ONLY. FIELD REVIEW DOES NOT MAKE ECORA ENGINEERING & RESOURCE GROUP LTD. GUARANTORS OF THE CONTRACTOR'S WORK. FIELD REVIEW IS NOT FOR THE BENEFIT OF THE CONTRACTOR(S) & MAY NOT FORM PART OF THE CONTRACTOR'S CONSTRUCTION QUALITY CONTROL, WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR(S). ECORA ENGINEERING & RESOURCE GROUP LTD. SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR(S) OR FOR THEIR FAILURE TO FULFILL THE INTENT OF THE DESIGN DRAWINGS.

REVIEW OF THE WORK, OR ANY PORTION THEREOF, BY THE ENGINEER SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY AND OBLIGATION TO COMPLY WITH THE CONTRACT DRAWINGS AND

ECORA ENGINEERING & RESOURCE GROUP LTD. IS TO BE NOTIFIED 24hrs IN ADVANCE OF ANY WORK REQUIRING A FIELD

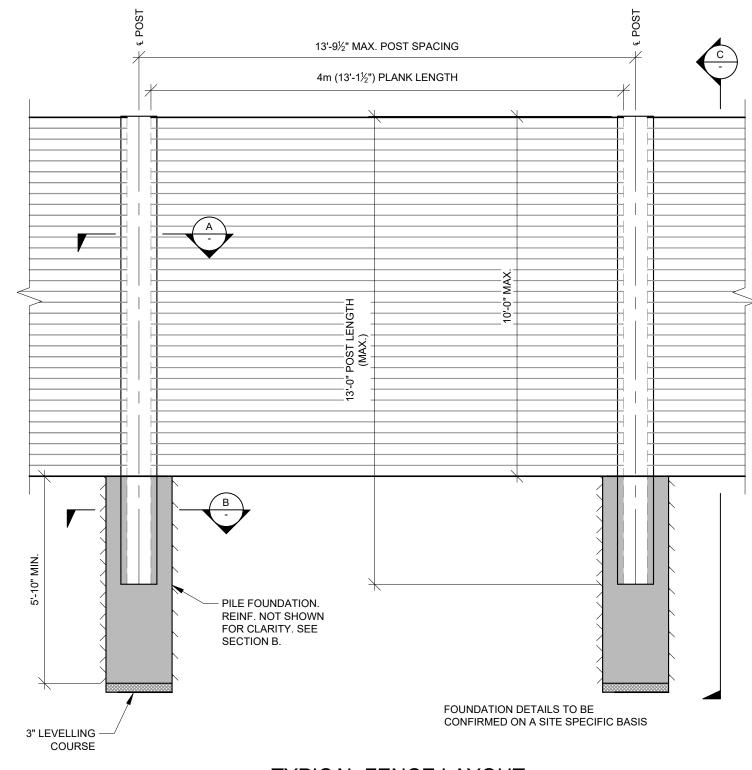
OWNER/CONTRACTOR TO ADVISE ENGINEER WHEN SITE WORK IS IN PROGRESS. ANY WORK COVERED AND NOT INSPECTED MAY NEED TO BE UNCOVERED FOR FIELD REVIEW.

THE FOLLOWING ITEMS SHALL BE REVIEWED:

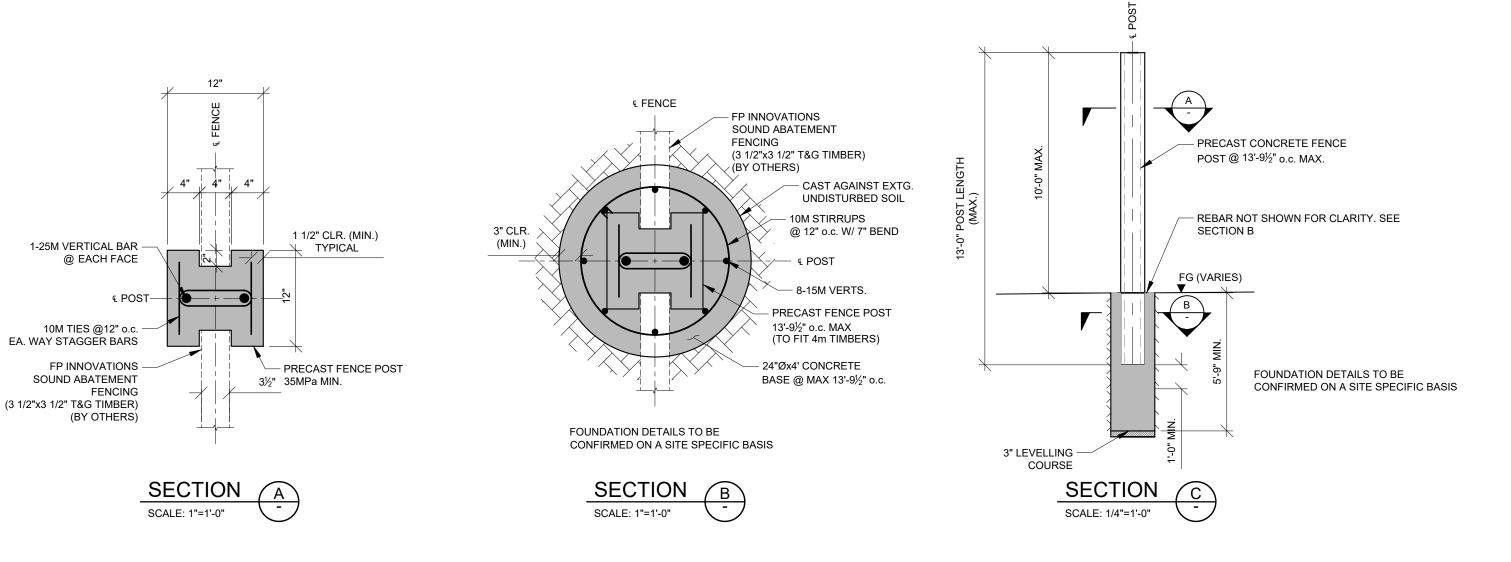
- 1. ALL REBAR PRIOR TO POURING OF FOOTINGS AND CONCRETE POSTS. COPIES OF CONCRETE DELIVERY SLIPS ALSO SHALL BE FORWARDED TO ECORA ENGINEERING & RESOURCE GROUP LTD. WITHIN 24hrs. OF POUR.
- 2. DURING CONSTRUCTION, AN INDEPENDENT TESTING AGENT CERTIFIED IN ACCORDANCE WITH CSA A283 SHALL BE ENGAGED TO SAMPLE, PREPARE AND TEST CONCRETE MATERIALS IN ACCORDANCE WITH CSA-A23.1/A23.2. ALL CONCRETE TEST RESULTS SHALL BE FORWARDED TO THE OWNER'S REPRESENTATIVE WITHIN 24 HOURS OF TEST.

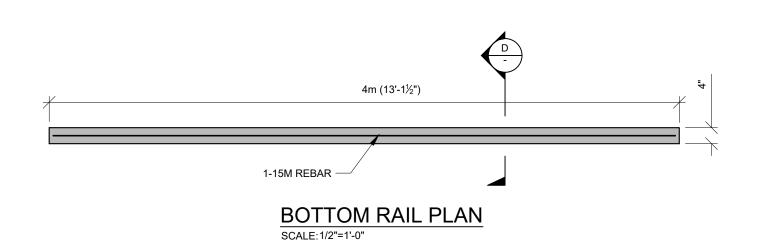
NON-STRUCTURAL ELEMENTS

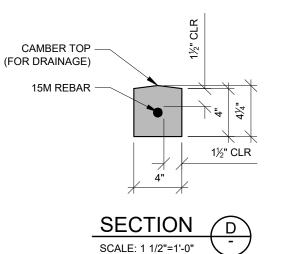
- 1. ECORA ENGINEERING & RESOURCE GROUP LTD. IS NOT RESPONSIBLE FOR THE STRUCTURAL DESIGN OF NON-STRUCTURAL AND SECONDARY STRUCTURAL ELEMENTS AND THEIR CONNECTION TO THE PRIMARY STRUCTURAL
- ELEMENTS. THESE ELEMENTS INCLUDE BUT ARE NOT LIMITED TO: a) ALL GLAZED COMPONENT SYSTEMS INCLUDING WINDOWS, STOREFRONTS, CURTAIN WALLS, SKYLIGHTS,
- CANOPIES AND GUARD RAILING. b) ELEVATORS, ESCALATORS, LIFTS AND DOCK LEVELERS.
- c) ATTACHED AND FREE-STANDING SIGNAGE STRUCTURES.
- d) ROOFING SYSTEMS AND WALL CLADDING SYSTEMS. e) INTERIOR NON-LOAD BEARING WALLS.
- f) CEILING SYSTEMS. g) MOVABLE CURTAINS/DOOR SYSTEMS.
- h) STORAGE SHELVING AND RACKING SYSTEMS.
- i) GUARDS AND GUARD RAILING.
- 2. STRUCTURAL DESIGN OF NON-STRUCTURAL ELEMENTS TO BE CARRIED OUT BY SPECIALTY STRUCTURAL ENGINEERS RETAINED BY THE CONTRACTOR AND/OR SUPPLIER OF THE NON-STRUCTURAL ELEMENTS IN ACCORDANCE WITH PART 4 OF THE BUILDING CODE FOR GRAVITY AND LATERAL LOADS.
- 3. FOR THE PURPOSES OF THE "NON-STRUCTURAL ELEMENTS" DESIGN, THE PRIMARY STRUCTURE BEAMS HAVE BEEN DESIGNED FOR A MAX DEFLECTION OF L/360 OR 3/4" (19mm) (SMALLER OF).
- 4. SPECIALTY ENGINEERS TO SUBMIT SCHEDULES S-B AND S-C AND PERFORM THE NECESSARY FIELD REVIEWS.

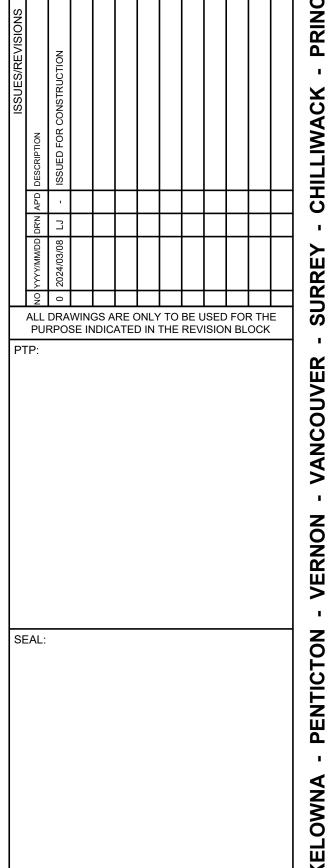


TYPICAL FENCE LAYOUT









CHILLIWACK, BC P 604-795-6652 CLIENT:

BC WOOD SPECIALTIES GROUF

PROJECT NAME:

WOOD SPECIALTIES GROUP SOUND ABATEMENT FENCE

BC MOTI DRAWING TITLE:

> GENERAL NOTES, SECTIONS AND DETAILS

MM DESIGN BY: LJ DRAWN BY: CHECKED BY: INDEPENDENT REVIEWER: PROJECT No.: 2400122

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