ASSEMBLING DESIGN AND CONSTRUCTION TEAM TO BUILD AFFORDABLE RENTAL HOUSING

Tim Welch Consulting Inc.

Team of Six+:

- Affordable housing development and planning approvals
- Housing and homelessness policy, research and program evaluation
- Affordable home-ownership (Creating Homes)
- Social housing redevelopment and regeneration

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Over 700 units in the past 9 years in 20 developments in southern Ontario





Policy Context

- Increasing need for affordable and supportive housing in Guelph-Wellington:
- 10-Year Housing & Homelessness Plan
- 5-year Affordable and Social Housing Strategy
- 1,242 households on the waiting list for social housing as of December 31, 2014

Housing Market

Lowest vacancy rate in Ontario – 1.2%

- >one bedroom rent \$898
 - minimum wage \$11.25 per hour \$1,575 per month (35 hours), affords **\$473** per month
 - Seniors basic pension \$1350, afford \$405 per month
 - Social assistance
 - ■Single person \$376
 - Single person disabled \$479

Checklist for Early Stages

- 1. Identify site
- 2. Identify target market
- 3. Identify Partners and what tasks each will undertake or provide
- 4. Create business plan with capital and operating budget
- 5. Assemble development team
- 6. Secure financial resources

Assembling a Development Team

- Early players: Appraiser, Environmental and Geotechnical Engineers, Surveyor
- Architect (engineers, landscape architect)
- Construction Manager
- Development Consultant/Project Manager
- Quantity Surveyor
- Mortgage financier

Role of Early Players

- To ensure the land is suitable for development
- Analysis to ensure the architect has information to complete full architectural drawings
- Various technical studies for planning approvals that need to be completed to satisfy the municipality – also need to inform architect/contractor:
 - Geotechnical study
 - Environmental Phase 1, possible 2 and supplemental
 - Topographic survey
 - Functional Servicing Report
 - Municipality will list what is required at pre-consult meeting

Project Team

- Note that professional members come with their own expertise, role, technical language and regulatory framework.
- Team brings together the vision and what's achievable given financial and site constraints.
- Need high level of communication to reach a common understanding of each other's role.

Role of Architect

- Key Design professional
 - Needs to understand your program of who you are going to house and the needs of those residents (Accessibility/seniors)
 - Needs to understand energy efficiency/environmental priorities
 - Needs to understand your site/limitations
 - NEEDS TO UNDERSTAND YOUR BUDGET!

Role of Architect

- Selection process
 - Select architect known to non-profit board
 - 3 4 quotes in limited proposal call; or
 - Advertised proposal call (i.e. Biddingo)
- Will want to interview get references/visit their buildings
- Experience in multi-residential and non-profit sector
- Ideal if Architect hires civil, structural,
 mechanical/electrical engineers + landscape architect
 - one contract

Architect – early discussions

Listen to board members, property manager and future residents (SHOW)



Architect contract

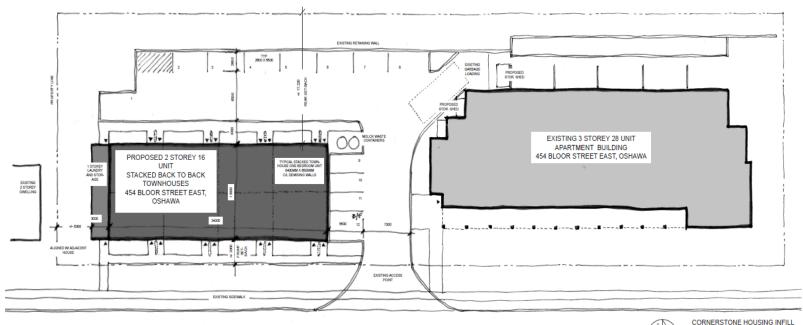
- □ Typically a standard Ontario Association of Architects contract – be clear what work is agreed to – review the "checked boxes" and ask what is not covered and why (or understand additional costs for the work)
- Fees typically on a percentage scale
- Clarify if a small change in building size will affect fee
- Typical extras will be appearing at re-zoning, OMB, clarify if costs for major revisions in drawings

Role of Architect: Stages of Work

Conceptual work (once site confirmed)

- □ low cost or pro bono
- can be used as a basis for pre-consultation with municipal planning and/or for your business plan
 - Provider sets out mix of units, apt building vs townhouse, parking needs, common space
- also important as a basis of square footage needed in your budget calculations

Concept for an addition



Site Plan



Colour Rendering!



Stages of Work: Detailed Design

- More detailed work up of both the building hallways, stairwells, interior layouts of units – as well as site of property
- Provider input needed on details of heating system, storage space, common meeting rooms, garbage rooms, type of garbage system/pick-up, exact number of parking spaces etc.
- Can be basis for rezoning/maybe site plan
- Could be the basis for contractors to provide "Class D" estimates

Architect and Sub-consultants

- Most often architect responsible for engineering sub-consultants
- If not, more administration necessary on the part of the proponent
- Get clear understanding of what work is covered by sub-consultants contract including revisions to design work
 - Challenge if municipality asks for late changes i.e. Innerkip

Stages of Work: Full Building Drawings

- All building design professionals participate and architect draws and co-o-ordinates
- Undertake once full financing in place
- Basis for submitting for building permit
- Basis for getting either full tendering or sub-trade tendering
- Importance of review for "no gaps" to minimize change orders

Stages of Work: Construction Review

- Architect attends construction site meetings
- Reviews /inspects work for compliance with drawings (will be additional separate engineer inspections for foundations etc.)
- Reviews change requests/change orders
- Typically reviews draw requests from contractor
- Acts as housing providers technical "eyes" during construction

Stages of Work: Completion

- Deficiency review
- Certify substantial completion
- Follow up on outstanding quality/deficiencies repair

Contractor

- Options:
 - full tender,
 - construction management (can be modified)
 - design build
- Different construction contracts (CCDC)
- Most financial institutions want fixed price contract for a non-profit/co-op



Contractor

- Experience in multi-residential and preferably work with non-profit sector
 - Willingness to do site visit/estimate
- □ RFP (Biddingo) or 3-4 quotes
- Ensure you understand what is included in their price for comparison. Prepare checklist of what's in/out.
- Check references/visit their buildings

Full Tender

- With full drawings, contractors will provide a total fixed price
 - Can be wide range in results depending on subtrades used and "hunger" of contractor
 - Concern over "unknown" contractor with low bid in full tender
- If gaps in drawings, can result in change orders from pricing
- Some change orders initiated by housing provider

Design Build

- Design and construction are contracted to a single company who complete for a fixed price (excluding soil conditions).
- Less work for the proponent but less specific control as contract can allow substitutions
- Proponent typically doesn't benefit from any savings
- Be clear on what's included in the price

Construction Management

- CM fee fixed (fee for co-ordinating the construction – typically a percentage
- Different construction contract options (CCDC)
- Owner, architect and general contractor work together to get best price on cost of work – "value engineering"
- Beneficial with architect and contractor who have worked together previously

Construction Manager

- Owner can benefit from any cost savings but also increases
- For Non-Profits, prudent to lock into price once subtrade costing complete
- Typically a CCDC2 contract financial institutions are comfortable with this.
- Can still be some change orders, often related to soil conditions
- □ Keep at least a 3% contingency even with a fixed price

Plan Cash Flow

- Standard contracts payment required within
 20 to 30 days of draw request
- IAH funding once meet milestone will need 2
 to 3 weeks for processing and transfer of funds
- Mortgage Financing 2 to 3 weeks for processing

Quantity Surveyor/Cost Consultant

- A professional with comprehensive knowledge of construction, construction methods and accounting
- Measures the value expended of your construction project
- A QS report needed for financing/CMHC insured mortgage

Design Issues

- Consider size and type of units
- If providing housing for one-person households may want some two-bedroom units to accommodate e.g. parent regaining custody of children.
- One bedroom open concept helps
- Bachelor units/SRO/Bedsitting appropriate

Design Features

- Common space
 - How frequently will it be used
 - □ Is there an alternative space to rent nearby?
 - Can it be realistically rented out for additional revenue?
- Accessibility

Energy Efficiency features

- Limited capital budget
- Examine payback period of features
- Ability to access any additional funds to offset?

Accessibility

- Accessibility for Ontarians with Disabilities Act (AODA) – customer service, participation in community life, built environment, etc.
- Minimum Standards for Accessibility in the Ontario Building Code
- Building "visitability"
- □ How many units fully modified?

What to Expect in Terms of Costs

- Architectural Services
- Contractor
- Development Consultant
- Environmental Consultants

Further Questions?

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