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**Date Issued: January 24, 2018**

**City of Hamilton**

**REQUEST FOR TENDER**

**Contract Number: C13-08-18**

**Wentworth Lodge - Oak Lane & Rose Court Tub & Shower  
Replacements in the City of Hamilton**

**ADDENDUM 1**

The following queries and responses, issued by the Procurement Section shall form part of the **Request for Tender** documents for the above, and the revisions and additions noted herein and any attachments shall read in conjunction with all other documents. This Addendum shall, however, take precedence over all previously issued **Request for Tender** documents where differences occur.

Included in this Addendum are: 2 Pages for Addendum 1  
6 Pages Specifications and Drawings  
**8 Pages total**

**1.0 Questions and Clarification**

<b>Question 1</b>	“On Page 270, #2.1 for Products listed - Arjo Bathing Tubs, can we propose alternate products”
<b>Answer 1</b>	Arjo lifting and bathing systems are currently the standard for the City of Hamilton. Alternates or substitutes will not be accepted.
<b>Question 2</b>	“With regards to the above mentioned tender, we would like to know if the <u>General Contractor</u> pricing the project <u>must be unionized</u> ? We understand the requirements to use union specific trades as per the Carpenter’s Agreement, however, does the GC tendering the project need to be unionized?”

<b>Answer 2</b>	<p>The <b>Successful Bidder</b> shall be bound by the Carpenters ICI Collective Agreement, and failure to provide proof of this confirmation within two Business Days of request by the City will result in a rejection of the Bid.</p> <ul style="list-style-type: none"> <li>- <b>REQUEST FOR TENDERS NOTICE, 2.1 City of Hamilton Labour Trades Obligations</b></li> <li>- <b>FORM OF TENDER, 15. Use of Union Trades</b></li> </ul>
<b>Question 3</b>	<p>“Please advise if the subject bid is open to all bidders (General Contractors) or only selected qualified are invited to bid for this project.”</p>
<b>Answer 3</b>	<p>The City is looking for qualified bidders for this project. Review all the documentation and requirements outlined within the RFT to determine if this opportunity is right for your organization.</p>

**2.0 Table of Contents – Section 00010**

2.1 Bidders shall add the following section into the table of contents in its respective division.

**06 61 16            Solid Surfacing**

**3.0 Solid Surfacing – Section 066116**

Bidders shall **Add: Section 06 61 16**, as attached with Addendum 1

**4.0 Drawings**

Bidders shall **Add: Structural Drawing S1. Jan. 12, 2018**, as attached within Addendum 1.

**END OF ADDENDUM 1**

Bidders providing a signed Form of Tender have made any necessary inquiries with respect to addenda issued by the City and have provided for all addenda in their Tender submission.

**All addenda will be posted on the City’s bid opportunities portal at:  
[hamilton.bidsandtenders.ca](http://hamilton.bidsandtenders.ca)**

**Procurement Section, City of Hamilton, Ontario**

(Revised: October 30, 2017)

**1. GENERAL**

**1.1 GENERAL REQUIREMENTS**

- .1 The General Conditions of CCDC 2-2008 Stipulated Price as supplemented in City of Hamilton Supplementary General Conditions, and the General Requirements of Division 1, form part of this Section, and must be read in conjunction with the requirements of this Section, and all related Sections.
- .2 The *Work* of this Section, and Related *Work* specified in other Sections shall comply with all requirements of Division 1 – General Requirements.

**1.2 SECTION INCLUDES**

- .1 Provision of all labour, materials, equipment and incidental services necessary to *Provide* solid surfacing fabrications at the following locations:
  - .1 Built-in grooming stations
  - .2 Washroom vanities

**1.3 RELATED SECTIONS**

- .1 Architectural Woodwork Section 06 40 00
- .2 Countertops and Vanities Section 06 41 05
- .3 Mechanical Division 22

**1.4 REFERENCES**

- .1 American National Standards Institute (ASNI):
  - .1 ANSI Z124.3-2005: Plastic Lavatories.
- .2 American Society for Testing and Materials (ASTM):
  - .1 ASTM D256-10; Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics
  - .2 ASTM D638-10; Standard Test Method for Tensile Properties of Plastics.
  - .3 ASTM D696-08; Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C With a Vitreous Silica Dilatometer
  - .4 ASTM D785-ASTM-08; Standard Test Method for Rockwell Hardness of Plastics and Electrical Insulating Materials
  - .5 ASTM D790-10 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
  - .6 ASTM D2583-07; Standard Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor
  - .7 ASTM E84-10b; Standard Test Method for Surface Burning Characteristics of Building Materials
- .3 International Association of Plumbing and Mechanical Officials (IAPMO) / American National Standards Institute (ASNI):
  - .1 IAPMO/ANSI Z214.6-2007; Plastic Sinks.

**1.5 SUBMITTALS**

- .1 Shop Drawings

- .1 Submit *Shop Drawings* in accordance with Section 01 33 00.
  - .2 Submit *Shop Drawings* indicating all dimensions, component sizes, fabrication details, attachment provisions and coordination requirements with adjacent work.
  - .2 Samples
    - .1 Submit Samples in accordance with Section 01 33 00
    - .2 Submit duplicate 50 x 50mm samples of each colour and finish.
  - .3 Operations and Maintenance Data
    - .1 Submit Operations and Maintenance Data in accordance with Section 01 78 00.
    - .2 Submit manufacturer's instructions for care and maintenance of solid surface materials including repair instructions.
- 1.6 TOLERANCES
- .1 Variation in component size:  $\pm 3\text{mm}$ .
  - .2 Location of openings:  $\pm 3\text{mm}$  from indicated location.
- 1.7 DELIVERY, STORAGE AND HANDLING
- .1 Do not deliver components to site until cabinetry or substrates are ready for installation.
  - .2 Store materials indoors prior to installation.
- 1.8 EXTENDED WARRANTY
- .1 Submit Extended Warranty documents in accordance with Section 01 78 00.
  - .2 Provide manufacturer's written warranty against defects in materials and workmanship under normal usage, for a period of ten (10) years from date of *Substantial Performance of the Work*. Warranty shall provide for all material and labour to repair or replace defective materials.
- 2. PRODUCTS**
- 2.1 ACCEPTABLE PRODUCTS
- .1 Manufacturers:
    - .1 Corian®, by DuPont Canada (Willis Supply Company)
    - .2 Staron, by Samsung Cheil Industries (Leeza Distribution, St-Laurent QC)
    - .3 Meganite by Pyrochem Group.
    - .4 Wilsonart Solid Surface, by Wilsonart International Inc.
  - .2 Basis of design Colour:
    - .1 Gold Glitz by Wilsonart Solid Surface
    - .2 Approval of an alternate manufacturer is contingent on an acceptable equivalent colour being available in the manufacturer's full Product line. Approval on an alternate manufacturer rests solely with the *Consultant*.
- 2.2 MATERIALS
- .1 Acrylic: Homogeneous acrylic; not coated or laminated; meeting ANSI-Z124.3 & Z124.6, Type 6. Material shall have minimum physical and performance properties as follows:

.1 Superficial damage to a depth of 0.25mm shall be repairable by sanding and polishing.

**2.3 COMPONENTS**

- .1 19mm thick solid polymer material, adhesively joined with inconspicuous seams; edge details as indicated on the Drawings; colour as selected by Consultant.
  - .1 Provide expansion joints in countertop as detailed on the Drawings.
  - .2 Make cutouts to templates furnished by the hot appliance manufacturer.
  - .3 Reinforce joints and cutouts as recommended by the surfacing manufacturer.
  - .4 Provide insulation between solid polymer material and adjacent hot water pans and food warmers.
  - .5 Thermally isolate hot applications from cold.

**2.4 PERFORMANCE CHARACTERISTICS**

PROPERTY	REQUIREMENT		TEST PROCEDURE
	(min or max)		
Tensile Strength	35MPa min.		ASTM D638
Flexural Strength	48MPa min		ASTM D790
Elongation	0.3% min.		ASTM D638
Hardness	90-Rockwell "M" scale min. 52-Barcol Impresser min.		ASTM D785 ASTM D2583
Thermal Expansion	3.5 x 10 <sup>-6</sup> in/in/°C max.		ASTM D696
Color Stability	No change, 100 hours min.		NEMA LD3-3.10
Wear and Cleanability	Passes		ANSI Z124.3
Abrasion Resistance	No loss of pattern max. weight loss (1000cycles) =0.9g.		NEMA LD3-3.01 ANSI Z124.3
Boiling water Surface Resistance	No Change		NEMA LD3-3.05
High Temperature Resistance	No Change		NEMA LD3-3.06
Impact Resistance Notched Izod	1.06N min.		ASTM D256, Method A
Stain Resistance	Passes		ANSI Z124.3
Weatherability	No change, min. 1000 hours		ASTM D1499
Fungi and Bacteria	No Attack		ASTM G21, ASTM G22
Specific Gravity	1.6 min		
Water Absorption Weight (% max.)	24 hrs. 0.05 0.10	Long Term 0.50 0.90	ASTM D570
Flammability	ASTM E84		
<b>SOLID COLORS</b>			
	6mm	13mm	19mm
Flame spread	25 max	25 max	25 max
Smoke Developed	30 max	30 max	30 max

Class	1	1	1	
PARTICULATE PATTERNS				
	6mm	13mm	19mm	
Flame spread	25 max	25 max	25 max	
Smoke Developed	30 max	30 max	30 max	

2.1 ACCESSORIES

- .1 Joint adhesive: Manufacturer's standard two-part adhesive to create inconspicuous, non-porous joints, with a chemical bond.
- .2 Sealant: Manufacturer's standard mildew-resistant, FDA/UL® recognized silicone sealant in color matching or clear formulations.
- .3 Sink/Bowl mounting hardware: Manufacturer's approved bowl clips, brass inserts and fasteners for attachment of undermount sinks/bowls.

2.5 FABRICATION

- .1 Fabrications to be performed by a Manufacturer Certified fabricator/installer.
- .2 Fabricate components in shop to greatest extent practical, to sizes and shapes indicated on *Drawings*, in accordance with reviewed *Shop Drawings* and manufacturer's requirements.
- .3 Form joints between components using manufacturer's standard joint adhesive. Joints shall be inconspicuous in appearance and without voids. Attach 50mm (2") wide reinforcing strip of solid surface material under each joint.
- .4 Provide holes and cutouts for plumbing and bath accessories as indicated on the drawings.
- .5 Rout and finish component edges to a smooth, uniform finish. Rout all cutouts, then sand all edges smooth. Repair or reject defective or inaccurate work.
- .6 Finish: All surfaces shall have uniform finish:Matte; gloss range of 5–20.
  - .2 Semigloss; gloss range of 20–50.
  - .3 Polished; gloss range of 50–80.
- .7 Cove Backsplashes: Fabricate 13mm (1/2") radius cove at intersection of counters and backsplashes. Rebate countertop to accept cove strip. Form backsplashes using 19mm (3/4") material. Fabricate in shop or field.Sidesplashes: Fabricate from 19mm (3/4") material, set flush on countertop.Colour: To be selected by *Consultant* from manufacturer's full range of colours. Provide samples for *Consultant's* selection.

3. EXECUTION

3.1 EXAMINATION

- .1 Prior to commencing the *Work* of this Section, carefully inspect installed *Work* of other trades and verify that such *Work* is complete to the point where *Work* of this Section may properly commence. Provide *Notice in Writing* to the *Consultant* and *Contractor* of conditions detrimental to the proper and timely completion of the *Work* of this Section.

- .2 Do not begin installation until all unsatisfactory conditions are resolved. Beginning *Work* of this Section constitutes acceptance of site conditions and responsibility for defective installation caused by prior observable conditions.

### 3.2 INSTALLATION

- .1 Install components plumb and level, in accordance with approved shop drawings and product installation details.
- .2 Form field joints using manufacturer's recommended adhesive, with joints inconspicuous in finished work. Keep components and hands clean when making joints.
- .3 Provide backsplashes and endsplashes as indicated on the drawings. Adhere to countertops using manufacturer's standard color-matched silicone sealant.
- .4 Keep components and hands clean during installation. Remove adhesives, sealants and other stains. Components shall be clean on Date of Substantial Completion.
- .5 Make plumbing connections to sinks in accordance with Division 15 Mechanical.
- .6 Protect surfaces from damage until turnover to *Owner*. Repair or replace damaged work that cannot be repaired to *Consultant's* satisfaction.
- .7 Fabricator/Installer to provide Commercial Care and Maintenance instructions, review maintenance procedures and warranty with the *Owner* upon completion of project.

### 3.3 PROTECTION

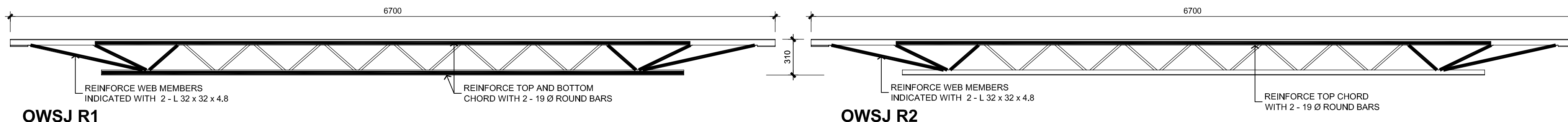
- .1 Protect completed installation from damage resulting from other trades with heavy kraft paper, or cardboard until date of final inspection.

### 3.4 CLEANUP

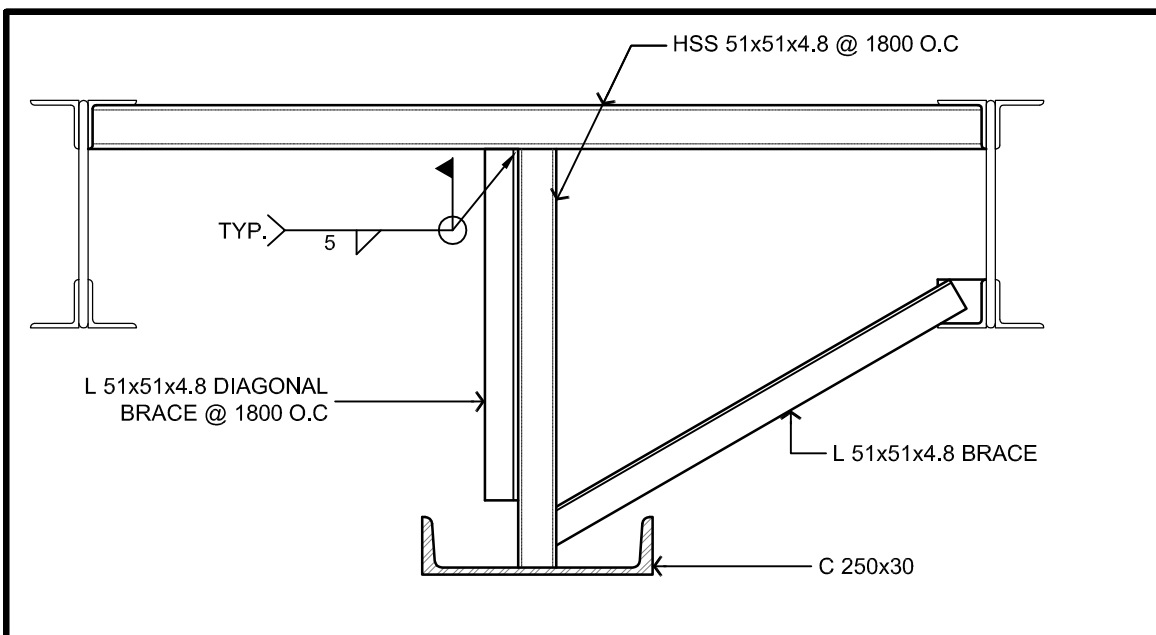
- .1 Remove all excess adhesives, sealants and other contaminates from solid surface installation and all adjacent surfaces. Leave completed installation clean and ready for final inspection.

**END OF SECTION**

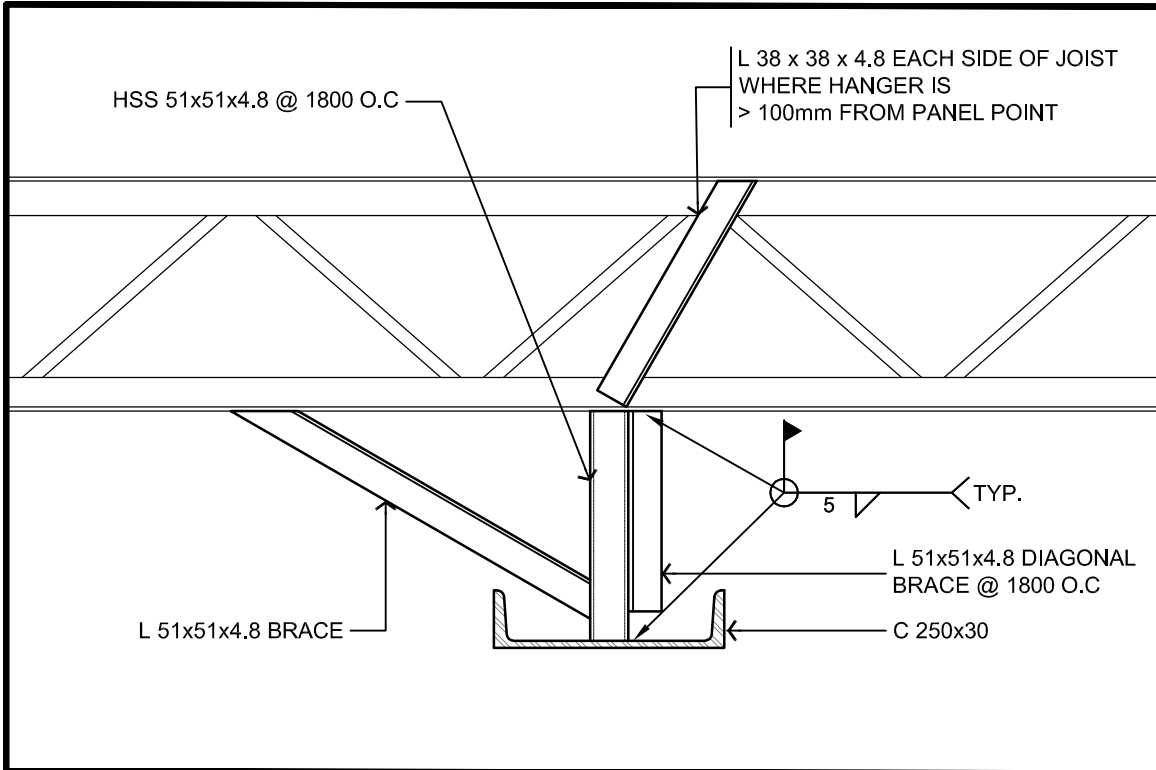




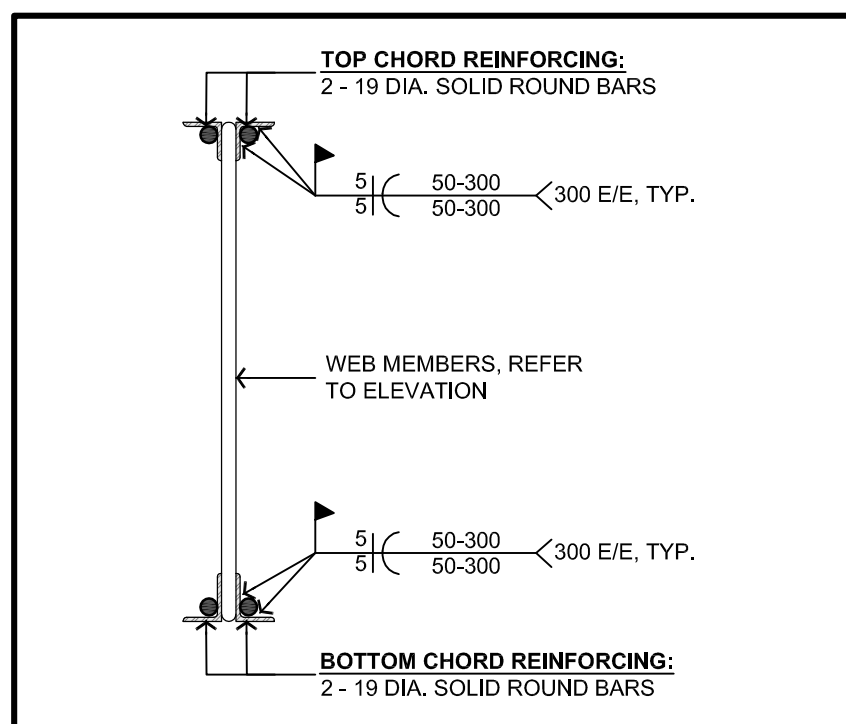
**OWSJ R1**  
**JOIST REINFORCEMENT ELEVATION**  
 SCALE 1:25



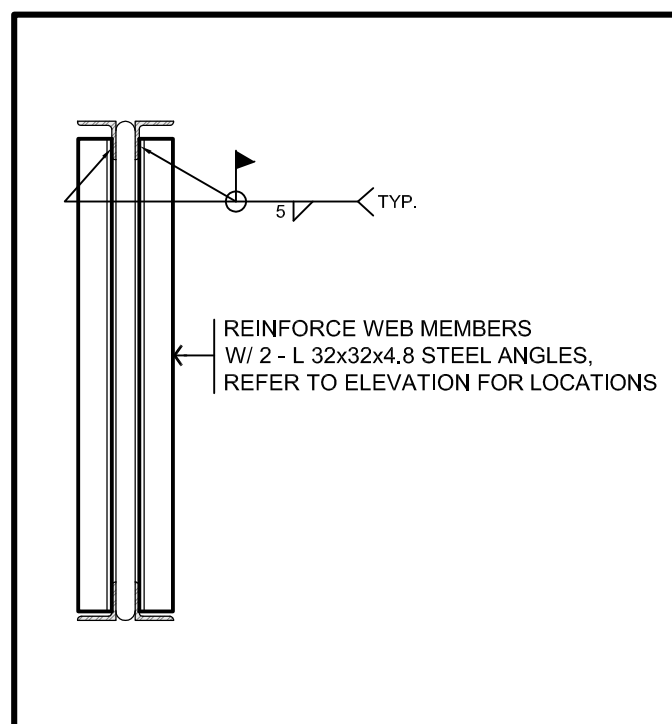
**1**  
**DETAIL - TRACK PARALLEL TO OWSJ**  
 SCALE 1:10



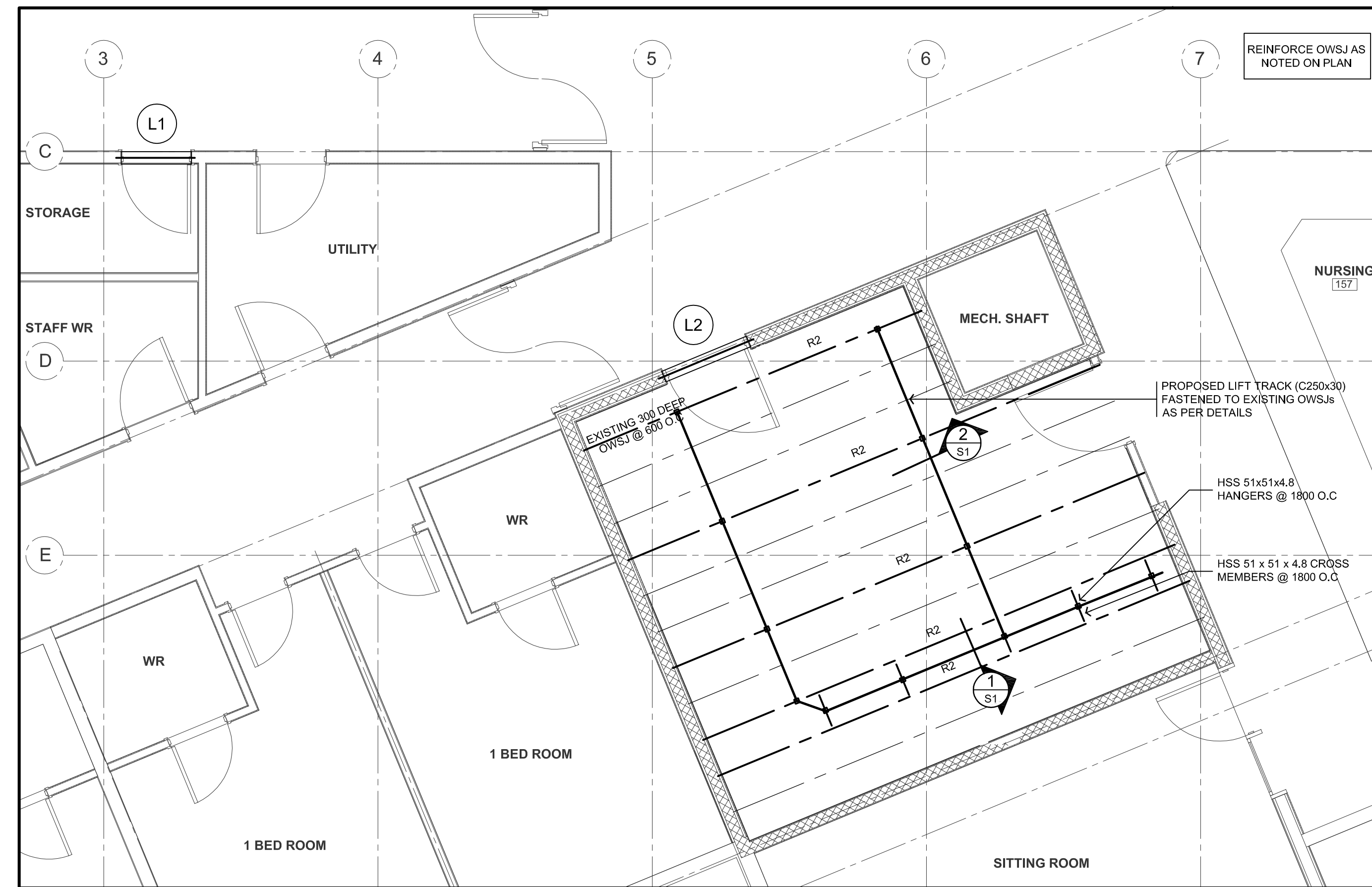
**2**  
**DETAIL - TRACK PERPENDICULAR TO OWSJ**  
 SCALE 1:10



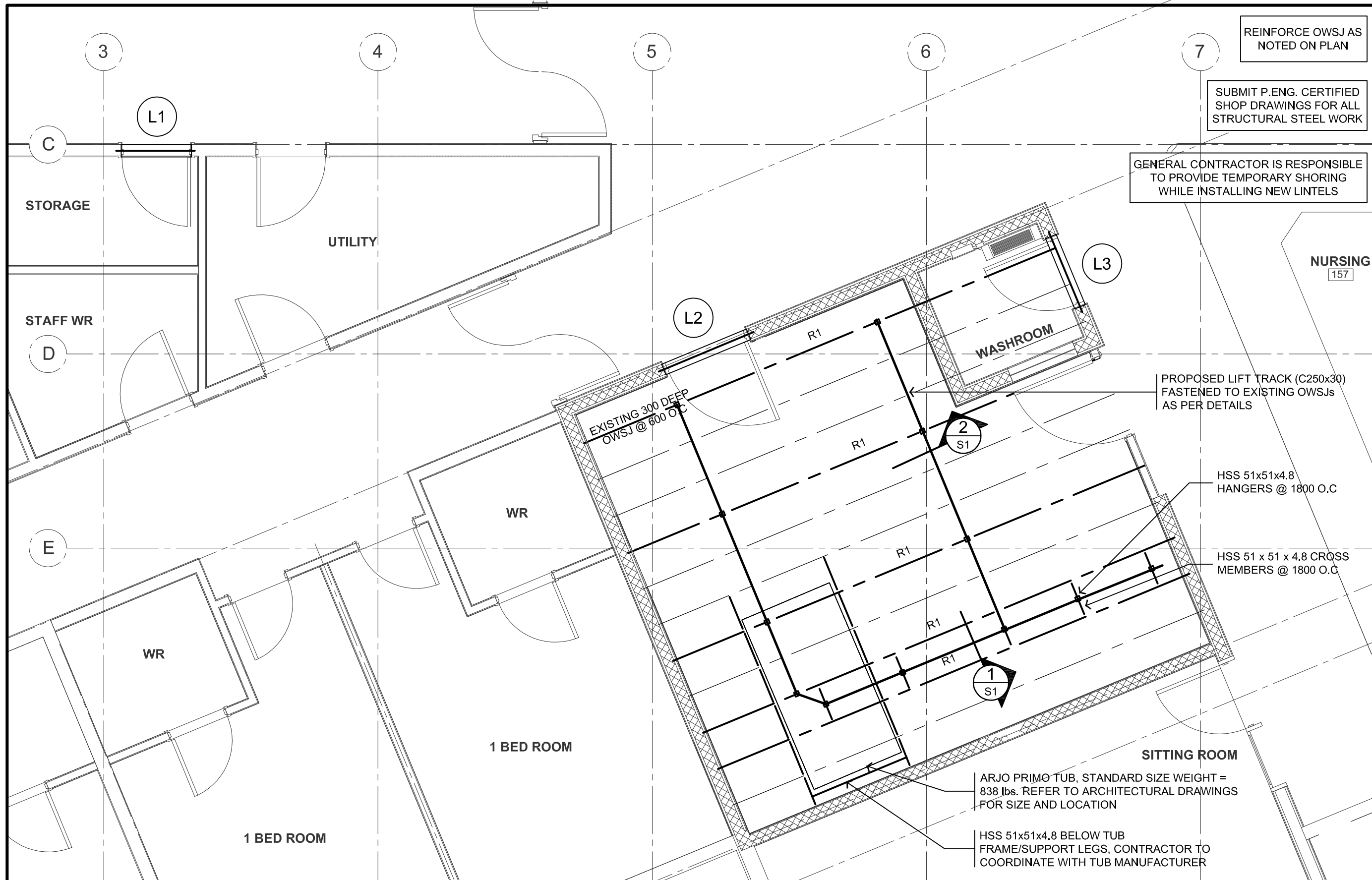
**DETAIL - CHORD REINFORCING**  
 SCALE 1:10



**DETAIL - WEB REINFORCING**  
 SCALE 1:10



**MECHANICAL LEVEL - FRAMING PLAN**  
 SCALE 1:50



**SECOND FLOOR - FRAMING PLAN**  
 SCALE 1:50

NOTE: EXISTING STRUCTURE COULD NOT BE FULLY VERIFIED DUE TO INTERIOR FINISH. GENERAL CONTRACTOR TO EXPOSE EXISTING OWSJS AND CONTACT TACOMA ENGINEERS TO REVIEW PRIOR TO COMMENCING ANY REINFORCING WORK

LEGEND:  
 L - STEEL STUD LINTEL, REFER TO OPENING TABLE

**GENERAL NOTES:**

- UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE FOLLOWING NOTES SHALL GOVERN.
- ALL WORK ON THIS PROJECT SHALL CONFORM TO THE 2012 ONTARIO BUILDING CODE (OBC 2012), ANY LOCAL REGULATIONS AND BYLAW, AND THE CURRENT OCCUPATIONAL HEALTH AND SAFETY ACT (OHSA) AND CURRENT REGULATIONS FOR CONSTRUCTION PROJECTS. ALL CODES AND STANDARDS SHALL BE THOSE REFERENCED IN OBC 2012.
- ALL STANDARDS ARE TO BE THE YEAR, EDITIONS, DOCUMENT NUMBERS, ETC. AS PER OBC 2012 DIVISION 8, T.1.3.1.2. WHERE DISCREPANCIES EXIST BETWEEN OUR DRAWINGS AND T.1.3.1.2, THE TABLE SHALL GOVERN UNLESS NOTED OTHERWISE.
- THIS SET OF DRAWINGS SUPERCEDES AND REPLACES ALL PREVIOUS DRAWINGS.
- READ THESE DRAWINGS IN CONJUNCTION WITH ALL RELATED CONTRACT DOCUMENTS AND ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND MEASUREMENTS AT THE SITE AND VERIFY ALL DIMENSIONS GIVEN ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS. REPORT TO THE ENGINEER ANY DISCREPANCIES OR UNSATISFACTORY CONDITIONS WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION OF THE PROJECT BEFORE PROCEEDING WITH THE WORK.
- IF ANY STRUCTURAL DISCREPANCIES ON THE DRAWINGS EXIST, THE MOST STRINGENT SHALL APPLY.
- DRAWINGS ARE NOT TO BE SCALED.
- CONSTRUCTION AND SHOP DRAWING REVIEW MUST BE PROVIDED AS PER CODE.
- SUBMIT SHOP DRAWINGS AS NOTED ON PLANS. SHOP DRAWINGS SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER WHERE REQUIRED AND REVIEWED BY THE CONTRACTOR FOR DIMENSIONAL CORRELATION WITH THE DRAWINGS AND FIELD CONDITIONS PRIOR TO SUBMITTING TO TACOMA ENGINEERS. FABRICATION OF ELEMENTS ON SHOP DRAWINGS MAY NOT PROCEED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED BY TACOMA ENGINEERS.
- CONSTRUCTION LOADINGS SHALL NOT EXCEED THE SPECIFIED DESIGN LOADS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL MAKE ADEQUATE PROVISION FOR CONSTRUCTION LOADS AND TEMPORARY BRACING TO KEEP STRUCTURE PLUMB AND IN TRUE ALIGNMENT AT ALL PHASES OF CONSTRUCTION. ANY BRACING MEMBERS SHOWN ON THE DRAWINGS ARE REQUIRED FOR THE FINISHED STRUCTURE AND MAY NOT BE SUFFICIENT FOR CONSTRUCTION PURPOSES.
- RETAIN A CERTIFIED INDEPENDENT TESTING OR INSPECTION COMPANY FOR TESTING & INSPECTION FOR THE ITEMS IN TABLE 1. THIS TESTING AND INSPECTION IS TO BE PAID FOR BY THE CONTRACTOR.
- OBC 2012 DIVISION C SECTION 1.2.2 REQUIRES GENERAL REVIEW OF THE CONSTRUCTION BY THE DESIGN PROFESSIONAL. TACOMA ENGINEERS SHALL BE GIVEN A MINIMUM OF 48 HOURS NOTICE AT (519)763-2000 (GUELPH) OR (705) 735-1875 (BARRE) BY THE CONTRACTOR FOR THE FOLLOWING REQUIRED CONSTRUCTION REVIEWS:  
 A. STRUCTURAL FRAMING / STEEL STUDS - PRIOR TO COVERING WITH STEEL FINISHES

**TABLE 1: REQUIRED TESTING & INSPECTION**

RESULTS SHALL BE SUBMITTED DIRECTLY TO TACOMA ENGINEERS FROM THE TESTING COMPANY, FOR REVIEW

ITEM	REQD	NOTES
STRUCTURAL STEEL INSPECTION	YES	THIRD PARTY INSPECTION

**STRUCTURAL STEEL:**

- ALL STRUCTURAL STEEL ELEMENTS ARE DESIGNED USING THE LIMIT STATES DESIGN METHOD IN ACCORDANCE WITH CAN/CSA-S16.
- SUBMIT ERECTION AND SHOP DRAWINGS FOR REVIEW BY THE PROJECT ENGINEER. STANDARD CONNECTIONS SHALL CONFORM TO THE HANDBOOK OF STEEL CONSTRUCTION. NON-STANDARD CONNECTIONS (INCLUDING MOMENT CONNECTIONS) SHALL BE DESIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO.
- STRUCTURAL STEEL BEAMS AND COLUMNS SHALL CONFORM TO CAN/CSA C462.1 GRADE 350W UNLESS NOTED.
- STRUCTURAL STEEL CHANNELS AND ANGLES SHALL CONFORM TO CAN/CSA C462.1 GRADE 300W UNLESS NOTED.
- ALL H.S.S. SHALL CONFORM TO CAN/CSA C462.1 GRADE 350W (CLASS C) UNLESS NOTED.
- ALL STEEL PLATE TO BE A36 (250W MPa) MATERIAL, MINIMUM.
- WELDING SHALL CONFORM TO CSA W47.1 AND CSA W59, BY THE CANADIAN WELDING BUREAU. ALL WELDING SHALL BE COMPLETED BY ONE CERTIFIED WELDER. THIRD PARTY WELDING INSPECTION SHALL BE PERFORMED BY FIRMS CERTIFIED TO CSA W178.1 AND W178.2.
- STRUCTURAL STEEL SHALL BE TESTED BY AN INDEPENDENT C.S.A. CERTIFIED TESTING COMPANY FOR ERECTION TOLERANCES.
- CONTRACTOR TO PROVIDE COPIES OF TESTING REPORTS TO TACOMA ENGINEERS.
- ALL STRUCTURAL STEEL SHALL RECEIVE A MINIMUM OF ONE COAT OF APPROVED SHOP PRIMER, TOUCHED UP AS REQUIRED ON SITE, EXCEPT THAT STEEL WHICH IS TO RECEIVE SPRAY-ON PREPADDING SHALL NOT BE PRIMED.
- STRUCTURAL STEEL MEMBERS SHALL NOT BE SPLICED WITHOUT THE APPROVAL OF THE ENGINEER.
- DO NOT CUT OPENINGS IN STRUCTURAL STEEL MEMBERS WITHOUT ENGINEER APPROVAL.

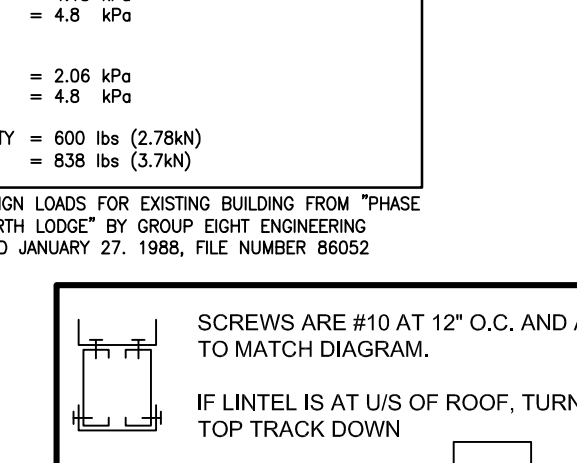
**LIGHTWEIGHT STEEL FRAMING:**

- ALL LIGHTWEIGHT STEEL STUD AND JOIST WORK SHALL BE DONE IN ACCORDANCE WITH CSA S136 AND THE CSSBI "LIGHTWEIGHT STEEL FRAMING MANUAL", LATEST EDITION.
- ALL LIGHTWEIGHT STEEL STUD FRAMING AND BRACING, BRACING, CONNECTORS AND OTHER METALS SHALL BE GALVANIZED TO A MINIMUM G90 (Z275) AND ALL SCREWS SHALL BE CADMIUM PLATED.
- ANCHOR TRACKS WITH APPROVED ANCHORS AT A MAXIMUM SPACING OF 600mm (24") O.C.
- INSTALL DOUBLE STUDS ON BOTH SIDES OF ALL OPENINGS GREATER THAN 900mm (36"). ALL HEADERS, SILLS AND STUDS AROUND OPENINGS SHALL BE DESIGNED AND SPECIFIED BY THE CERTIFYING ENGINEER.
- USE 1.12mm (0.045") (18 ga.) MINIMUM FOR ALL TRACK AND HEADERS.
- USE 1.12mm (0.045") (18 ga.) MINIMUM FOR ALL STUDS BRACING MASONRY.
- MINIMUM STEEL STUD GAUGE IS:  
 A. 0.85mm (0.035") (20 ga.) FOR 150mm (6") AND SMALLER STUDS.  
 B. 1.12mm (0.045") (18 ga.) FOR 200mm (8") STUDS.  
 C. FOR LARGER STUDS OR JOISTS, FOLLOW CAN/S 136 FOR MINIMUM MEMBER THICKNESS.
- ALLOW FOR 25mm (1") VERTICAL, INDEPENDENT DEFLECTION IN ALL STRUCTURAL LOAD-BEARING MEMBERS.
- FOR WALL STUDS, USE A MINIMUM HORIZONTAL DEFLECTION LIMIT OF SPAN/360.
- ALL LIGHTWEIGHT STEEL MEMBERS SHALL CONFORM TO ASTM A446 GRADE A, 228 MPa YIELD FOR STEEL 1.12mm (0.045") (18 ga.) OR THINNER. ALL LIGHTWEIGHT STEEL SHALL CONFORM TO ASTM A446 GRADE D, 345 MPa YIELD FOR STEEL 1.44mm (0.057") (16 ga.) OR THICKER. EXCEPT FOR TRACKS, ALL SHALL HAVE UPPEL FLANGES.
- LIGHTWEIGHT STEEL MEMBERS SHALL BE SPACED AT MAXIMUM 400mm (16") O.C. ADJUST MATERIAL THICKNESS AND SPACINGS AS REQUIRED BY THE DESIGN CRITERIA.
- TRACKS AND HEADERS SHALL BE AT MINIMUM, EQUAL THICKNESS, MATERIAL AND COATINGS AS STUDS, AND THICKER AS REQUIRED.

**DESIGN LOADS:**

- MECHANICAL ROOM FLOOR:  
 DEAD LOAD = 4.13 kPa  
 LIVE LOAD = 4.8 kPa
- SECOND FLOOR:  
 DEAD LOAD = 2.06 kPa  
 LIVE LOAD = 4.8 kPa
- LIFT MAXIMUM CAPACITY = 600 lbs (272kg)  
 ARJO PRIMO TUB = 838 lbs (378kg)

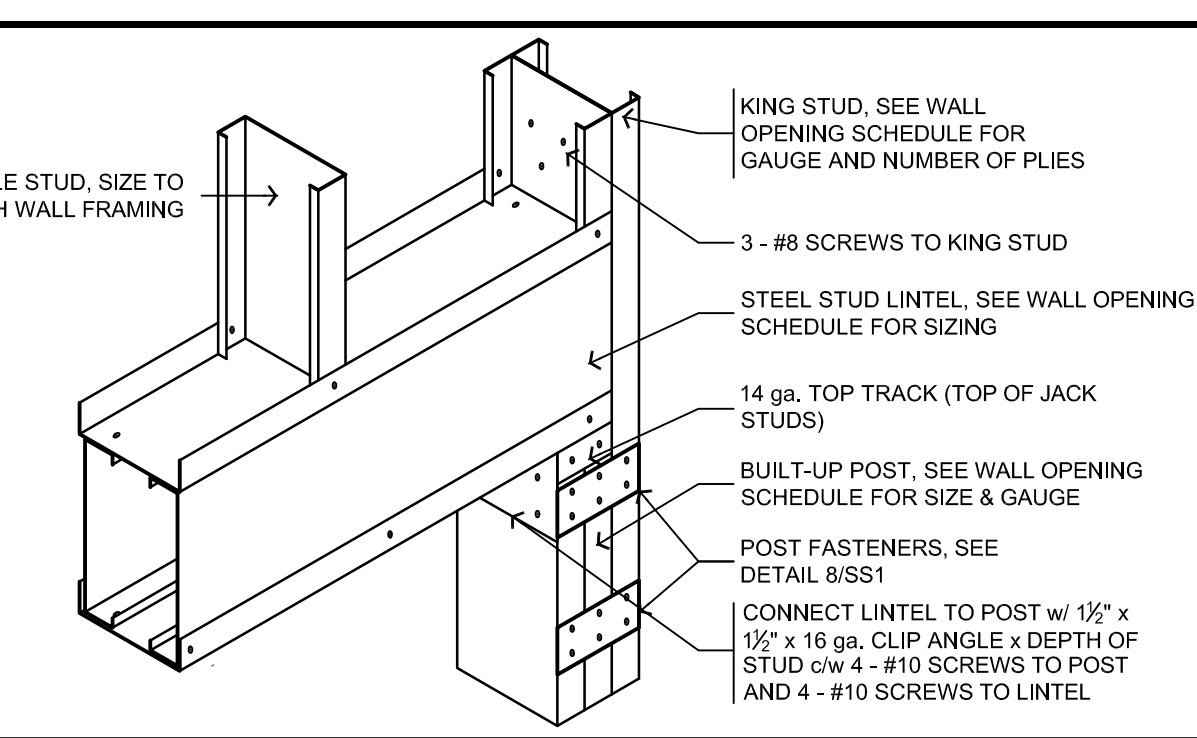
NOTE: ORIGINAL DESIGN LOADS FOR EXISTING BUILDING FROM "PHASE ONE WENTWORTH LODGE" BY GROUP EIGHT ENGINEERING LIMITED, DATED JANUARY 27, 1988, FILE NUMBER 86052



**TYPICAL LINTEL FASTENING**

**LINTEL STIFFENER DETAILS**

**TYPICAL MULTI-PLY POST FASTENING**  
 N.T.S.



**3 SECTION - TYPICAL STEEL STUD LINTEL**  
 SCALE 1:10

**WALL OPENING LINTEL SCHEDULE**

LINTEL MARK	LINTEL SIZE	POST SIZE	STIFFENER	REMARKS
L1	LINTEL 2-800 S 162-97	JACK POST 2-800 S 162-54 KING POST 1-800 S 162-54	A	
L2	LINTEL 2 L 127 x 89 x 6.4 (LLV)	N/A	N/A	
L3	LINTEL 2 L 89 x 89 x 7.9 (LLV)	N/A	N/A	

**NOTES:**

- LINTELS TO BEAR DIRECTLY ON JACK STUDS AS PER DETAIL 3/S1.
- ALL LINTELS FOR LOAD-BEARING WALLS TO HAVE STIFFENERS AS INDICATED.
- REFER TO ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW SIZES, IE, LINTEL SPANS.
- ALL MASONRY LINTELS TO HAVE MIN. 150 BEARING EACH END

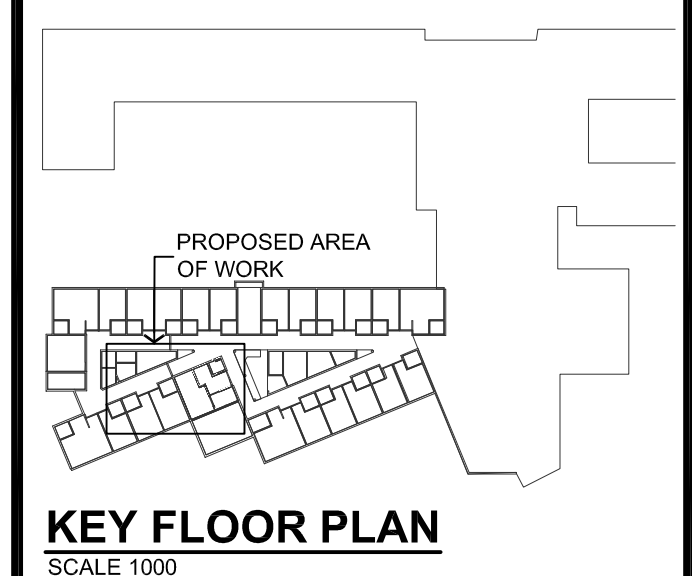
**LINTEL STIFFENER SCHEDULE**

STIFFENER	TYPE	# SCREWS TO LINTEL JOIST
STIFFENER A	362 T 125-54	8 - #10 SCREWS EACH SIDE

- PROVIDE 1 STIFFENER AS INDICATED IN EACH LINTEL PLY
- NUMBER OF SCREWS INDICATED IS FOR EACH PLY

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Date	Issue
NOV. 20, 2017	ISSUED FOR TENDER
DEC. 05, 2017	ISSUED TO CITY OF HAMILTON PURCHASING
JAN. 12, 2018	ISSUED TO CITY OF HAMILTON PURCHASING



**KEY FLOOR PLAN**  
 SCALE 1:1000

No.	Date	Revision

**TACOMA ENGINEERS**

176 Speedvale Avenue West  
 Guelph, Ontario N1H 1C3  
 Tel: 519.763.2000 Fax: 519.824.2000  
 www.tacomaengineers.com



Client  
**MMMC ARCHITECTS**  
 564 WEBER ST. N SUITE 1  
 WATERLOO, ON. N2L 5C6

Project Title  
**WENTWORTH LODGE TUB ROOMS**  
 41 SOUTH ST. W.  
 DUNDAS, ON.

Drawing  
**PLANS, NOTES, DETAILS & DESIGN LOADS**

Scale	AS NOTED	Dwg. #
Date	OCT. 2017	<b>S1</b>
Drawn By	J.KELLY	
Project No.	TE-30443-17	