

GENERAL NOTES

A. GENERAL INFORMATION

- READ STRUCTURAL DOCUMENTS IN CONJUNCTION WITH CONTRACT DOCUMENTS, WHICH INCLUDE, BUT ARE NOT LIMITED TO, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DOCUMENTS.
- CONTRACTOR TO BE RESPONSIBLE FOR CHECKING SITE CONDITIONS AGAINST DOCUMENTS BEFORE PROCEEDING WITH THE WORK, AND REPORT DISCREPANCIES TO THE CONSULTANT.
- CONTRACTOR TO PROVIDE LABOUR, MATERIALS, AND EQUIPMENT TO COMPLETE ALL STRUCTURAL WORK INDICATED.
- CARRY OUT CONSTRUCTION OPERATIONS, INCLUDING THE INSTALLATION OF TEMPORARY GUYING AND SHORING REQUIRED, ENSURING THAT THE EXISTING STRUCTURE OR MEMBERS ALREADY ERECTED ARE NOT LOADED IN EXCESS OF THEIR SAFE LOAD CARRYING CAPACITY.
- STRUCTURAL DOCUMENTS DO NOT NECESSARILY SHOW ALL OPENINGS AND SLAB VARIATIONS REQUIRED. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR THE EXACT LOCATION, NUMBER, AND SIZE OF OPENINGS, TRENCHES, PITS, SUMPS, SLEEVES, AND DEPRESSIONS. PROVIDE STRUCTURAL FRAMING AT THESE LOCATIONS IN ACCORDANCE WITH THE APPLICABLE TYPICAL DETAIL.

B. REFERENCE STANDARDS / CODES AND ACTS

- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH AND SHALL BE CONSTRUCTED TO CONFORM WITH THE 2024 ONTARIO BUILDING CODE, ONTARIO REGULATION 203/24 (REFERRED TO AS "THE BUILDING CODE"), ANY APPLICABLE ACTS OF ANY AUTHORITY HAVING JURISDICTION, AND THE FOLLOWING:

TABLE B.1: REFERENCE STANDARDS

REF	CODE	TITLE
a)	CAN/CSA A23.1	CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION
b)	CAN/CSA A23.2	METHODS OF TEST FOR CONCRETE
c)	CAN/CSA A23.3	DESIGN OF CONCRETE STRUCTURES
d)	CAN/CSA-S16	LIMIT STATES DESIGN OF STEEL STRUCTURES
e)	CAN/CSA G40.20/G40.21	STRUCTURAL QUALITY STEEL
f)	RSIC	REINFORCING STEEL INSTITUTE OF CANADA, MANUAL OF STANDARD PRACTICE
g)	CAN/CSA-A370	CONNECTORS FOR MASONRY
h)	CSA-A371	MASONRY CONSTRUCTION FOR BUILDINGS
i)	S304.1	DESIGN OF MASONRY STRUCTURES
j)	CSA G30.18	CARBON STEEL BARS FOR CONCRETE REINFORCING

- ALL STANDARDS AND PUBLICATIONS REFERENCED BY THE STANDARDS NOTED ABOVE ARE TO APPLY.
- WHERE THERE ARE DIFFERENCES BETWEEN THE DOCUMENTS AND THE STANDARDS, CODES AND ACTS, THE MOST STRINGENT SHALL GOVERN.

C. SUBMITTALS

- SUBMIT FOR REVIEW BY THE VARIOUS CONSULTANTS, DETAILED INFORMATION FOR ALL TEMPORARY AND PERMANENT STRUCTURAL WORK. THIS INCLUDES, BUT IS NOT LIMITED TO:

TABLE C.1: REQUIRED SUBMITTALS

ITEM	SUBMISSION TO BE SEALED BY PROFESSIONAL ENGINEER	COMMENTS
CONCRETE MIX DESIGN	NO	
STRUCTURAL STEEL SHOP DRAWINGS	YES	

- CONTRACTOR SHALL ALLOW FOR A TURN AROUND TIME OF FIVE WORKING DAYS FOR THE REVIEW OF THESE SUBMISSIONS.
- OUR REVIEW OF THE SHOP DRAWINGS IS ONLY FOR GENERAL CONFORMITY WITH STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS. COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS. NOR DO THEY AUTHORIZE ANY CHANGES TO THE CONTRACT. REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE REVIEW OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE CONTRACTOR'S RESPONSIBILITIES INCLUDE ALL QUANTITIES, DETAIL DIMENSIONS, FIELD MEASUREMENTS, FABRICATION PROCESS, MEANS, METHODS, SEQUENCES, AND PROCEDURES OF CONSTRUCTION, COORDINATION OF WORK WITH ALL TRADES, AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER. THE REVIEW OF SHOP DRAWINGS DOES NOT IMPLY ANY CHANGE IN ANY OTHER CONSULTANT'S OR PROFESSIONAL'S RESPONSIBILITY RELATED TO DESIGN OF SPECIFIC ITEMS AS OUTLINED BY THE SPECIFICATIONS (SUCH AS STRUCTURAL STEEL CONNECTIONS, STEEL JOISTS, PRECAST ELEMENTS, ETC.). AFTER REVIEW, THE DRAWINGS WILL BE STAMPED AND RETURNED TO SHOW ONE OF THE FOLLOWING:

NOT REVIEWED SHOWS WORK WHICH IS NOT WITHIN THE SCOPE OF STRUCTURAL CONSULTING SERVICES.

REVIEWED NO DEVIATIONS FROM THE CONTRACT DOCUMENTS NOTED.

NOTED WE HAVE MADE COMMENTS TO BE REVIEWED / INCORPORATED. SUBMIT RECORD PRINT.

RESUBMIT REVISE AND RE-SUBMIT FOR REVIEW.

D. MATERIALS

- PROVIDE ONLY NEW STRUCTURAL MATERIALS IN ACCORDANCE WITH THE REFERENCE STANDARDS AND THE FOLLOWING, UNLESS OTHERWISE NOTED.

1.1. CONCRETE:

- 1.1.1. CONCRETE STRENGTHS FOR STRUCTURAL ELEMENTS SHALL BE AS PER TABLE BELOW, UNLESS NOTED OTHERWISE ON PLANS, SCHEDULES, AND/OR SECTIONS.

TABLE D.1: CONCRETE STRENGTHS

STRUCTURAL ELEMENT	CONCRETE STRENGTH (f'c) @ 28 DAYS, MPa	EXPOSURE CLASS	AIR CONTENT	COMMENTS
HOUSEKEEPING PADS	20	N		

NOTES

1. CONCRETE STRENGTHS FOR STRUCTURAL ELEMENTS SHALL BE AS PER THIS TABLE UNLESS OTHERWISE NOTED ON PLANS, SCHEDULES, OR SECTIONS.
2. CONTRACTOR SHALL REVIEW PROPOSED CONCRETE SLUMP BY THE CONCRETE MIX DESIGNER, REINFORCEMENT CONGESTION, AND WORKABILITY PRIOR TO AND DURING POUR TO AVOID HONEYCOMBING OR VOIDS.
3. NOTIFY ENGLINK IN WRITING IF CONDITIONS MAY PREVENT PROPER CONSOLIDATION. CORRECTIVE WORK DUE TO INADEQUATE PLACEMENT SHALL BE AT CONTRACTOR'S COST.

- 1.2. REINFORCING STEEL: CONFORM TO CSA G30 SERIES, GRADE 400.

- 1.3. WELDED WIRE FABRIC: CONFORM TO CSA G30 SERIES, GRADE 386, IN FLAT SHEETS.
- 1.4. STRUCTURAL STEEL:
 - 1.4.1. STRUCTURAL WIDE FLANGE (W) AND WELDED WIDE FLANGE SHAPES (WWF) TO CONFORM TO CAN/CSA G40.20/G40.21 GRADE 350W.
 - 1.4.2. ANGLES (L), CHANNELS (C), AND PLATES TO CONFORM TO CAN/CSA-G40.20/G40.21 GRADE 300W.
- 1.5. PRIME PAINT: CONFORM TO CISC/CPMA STANDARD 2-75.
- 1.6. HOT DIP GALVANIZING: CONFORM TO CSA-G164, MINIMUM ZINC COATING OF 600 g/m².
- 1.7. STRUCTURAL BOLTS, NUTS, AND WASHERS: CONFORM TO ASTM A325M.
- 1.8. ANCHOR RODS: CONFORM TO THE REQUIREMENTS OF ASTM F1554 GRADE 36.
- 1.9. NON-SHRINK GROUT: COMPRESSIVE STRENGTH OF 35 MPa AT 24 HOURS.
- 1.10. BLOCK: CONFORM TO CAN3-A165 SERIES, MINIMUM COMPRESSIVE STRENGTH, f_m = 15 MPa BASED ON NET AREA.
- 1.11. MORTAR: CONFORM TO CSA A179 TYPE S FOR LOAD-BEARING WALLS UNLESS NOTED.
- 1.12. MASONRY GROUT: CONFORM TO CSA A179, 12.5 MPa MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, 250 mm (10") SLUMP, MAXIMUM AGGREGATE SIZE 10 mm (3/8").
- 1.13. POST-INSTALLED ANCHORS: PROVIDED BY HILTI (CANADA) CORPORATION. CONTACT HILTI AT (800) 363-4458 FOR PRODUCT RELATED QUESTIONS.

F. QUALITY CONTROL

1. GENERAL
 - 1.1. IMPLEMENT A SYSTEM OF QUALITY CONTROL TO ENSURE THAT THE MINIMUM STANDARDS SPECIFIED HEREIN ARE ATTAINED.
 - 1.2. BRING TO THE ATTENTION OF THE CONSULTANT ANY DEFECTS IN THE WORK OR DEPARTURES FROM THE CONTRACT DOCUMENTS, WHICH MAY OCCUR DURING CONSTRUCTION. THE CONSULTANT WILL DECIDE UPON CORRECTIVE ACTION AND GIVE RECOMMENDATIONS IN WRITING.
 - 1.3. THE CONSULTANT'S GENERAL REVIEW DURING CONSTRUCTION AND INSPECTION AND TESTING BY INDEPENDENT INSPECTION AND TESTING AGENCIES REPORTING TO THE CONSULTANT ARE BOTH UNDERTAKEN TO INFORM THE OWNER / CLIENT OF THE CONTRACTOR'S PERFORMANCE AND SHALL IN NO WAY AUGMENT THE CONTRACTOR'S QUALITY CONTROL OR RELIEVE THE CONTRACTOR OF CONTRACTUAL RESPONSIBILITY.

2. NOTIFICATION

- 2.1. PRIOR TO COMMENCING SIGNIFICANT SEGMENTS OF THE WORK, GIVE THE CONSULTANT AND INDEPENDENT INSPECTION AND TESTING COMPANIES APPROPRIATE NOTIFICATION (MINIMUM 24 HOURS) SO AS TO AFFORD THEM REASONABLE OPPORTUNITY TO REVIEW THE WORK. FAILURE TO MEET THIS REQUIREMENT MAY BE CAUSE FOR THE CONTRACTOR TO CLASSIFY THE WORK AS DEFECTIVE.

3. DEFECTIVE MATERIALS AND WORK

- 3.1. WHERE EVIDENCE EXISTS THAT DEFECTIVE WORK HAS OCCURRED OR THAT WORK HAS BEEN CARRIED OUT INCORPORATING DEFECTIVE MATERIALS, THE CONSULTANT MAY HAVE TESTS, INSPECTIONS OR SURVEYS PERFORMED, ANALYTICAL CALCULATIONS OF STRUCTURAL STRENGTH MADE, AND THE LIKE, IN ORDER TO HELP DETERMINE WHETHER THE WORK MUST BE CORRECTED OR REPLACED. TESTS, INSPECTIONS OR SURVEYS, OR CALCULATIONS CARRIED OUT UNDER THESE CIRCUMSTANCES WILL BE MADE AT THE CONTRACTOR'S EXPENSE, REGARDLESS OF THEIR RESULTS, WHICH MAY BE SUCH THAT, IN THE CONSULTANT'S OPINION, THE WORK MAY BE ACCEPTABLE.
- 3.2. ALL TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE, EXCEPT WHERE THIS WOULD, IN THE CONSULTANT'S OPINION, CAUSE UNDUE DELAY OR GIVE RESULTS NOT REPRESENTATIVE OF THE REJECTED MATERIAL IN PLACE. IN THIS CASE, THE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE STANDARDS GIVEN BY THE CONSULTANT.
- 3.3. MATERIALS OR WORK WHICH FAIL TO MEET SPECIFIED REQUIREMENTS, MAY BE REJECTED BY THE CONSULTANT WHENEVER FOUND AT ANY TIME PRIOR TO FINAL ACCEPTANCE OF THE WORK REGARDLESS OF PREVIOUS INSPECTION. IF REJECTED, DEFECTIVE MATERIALS OR WORK SHALL BE PROMPTLY REMOVED AND REPLACED OR REPAIRED TO THE SATISFACTION OF THE CONSULTANT, AT NO EXPENSE TO THE OWNER.



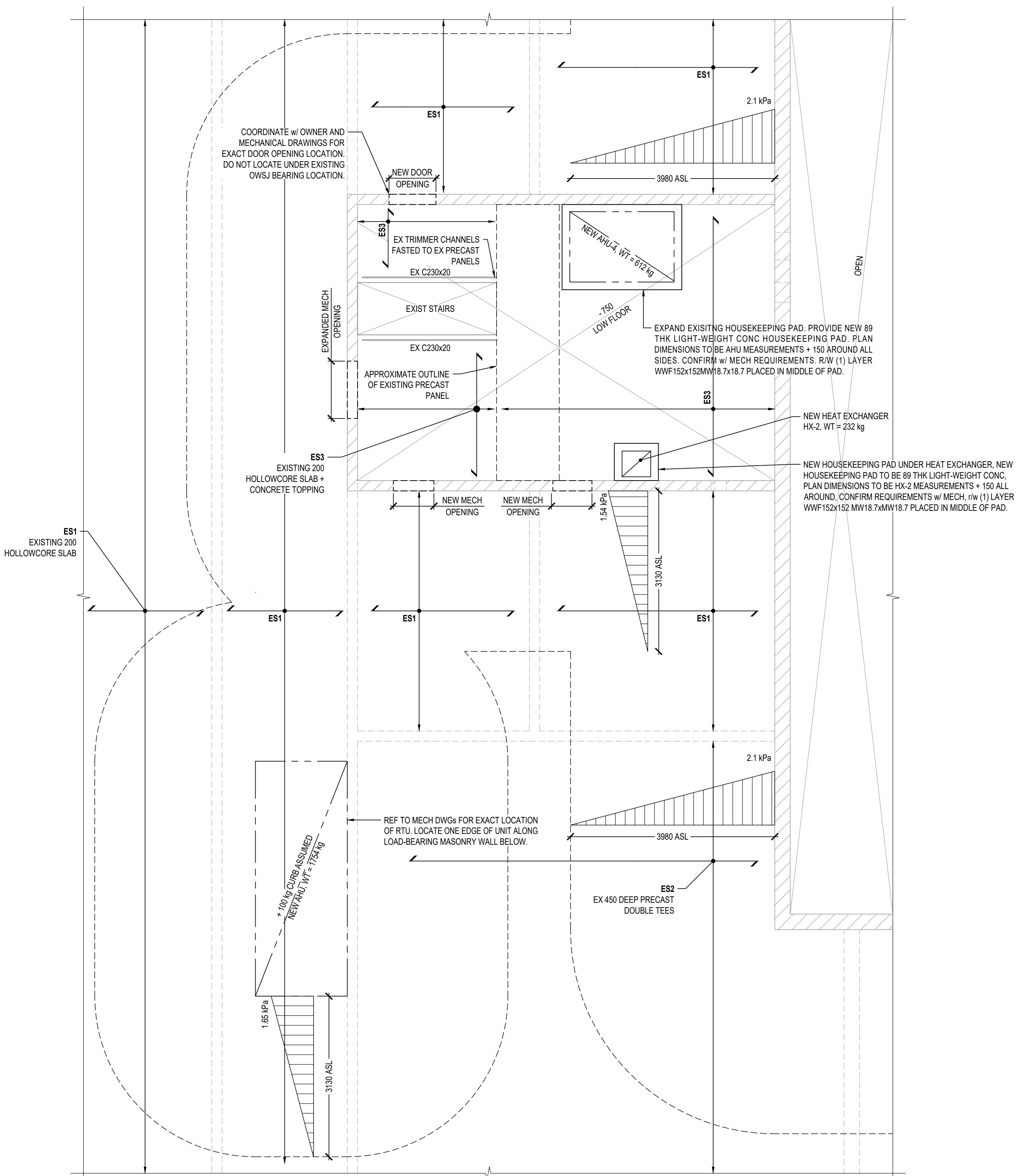
01	ISSUED FOR TENDER	MH	12/22/2025
No.	DESCRIPTION	BY	DATE

REVISIONS / STATUS

PROJECT:
VAUGHAN WILLARD P.S.
- AHU REPLACEMENT

Project No. 25-14

Scale:	N/A
Drawn by:	AQV
Checked by:	MH / STB
Address:	1911 Dixie Rd N, Pickering, ON L1V 1V4
Title:	
Sheet No.	Sheet Title
S-101	GENERAL NOTES
S-102	TYPICAL DETAILS
S-201	FRAMING PLANS



B SECOND FLOOR AND LOW ROOF FRAMING PART PLAN

SECOND FLOOR AND LOW ROOF FRAMING NOTE

1. TOP OF EXISTING HOLLOW-CORE SLABS IS AT ELEVATION + 3600 ABOVE EXISTING SLAB ON GRADE UNLESS CROSSED AND NOTED, CONTRACTOR TO SITE VERIFY. ELEVATIONS NOTED ARE REFERENCED FROM TOP OF EXISTING HOLLOW-CORE SLAB ELEVATION + 3600.
2. SECOND FLOOR (INTERIOR) DESIGN LOADS ARE:

SUPER-IMPOSED DEAD LOAD	1.4 kPa
LIVE LOAD	3.6 kPa
	INTERIOR
3. ROOF (EXTERIOR) DESIGN LOADS ARE:

SUPER-IMPOSED DEAD LOAD	1.0 kPa
SNOW LOAD	1.2 kPa + ASL
	MULTIPLIED BY HIGH IMPORTANCE $IULS = 1.15, ISLS = 0.9$
4. REFER TO MECHANICAL DRAWINGS FOR ELEVATION OF ALL NEW LINTELS.
5. PROVIDE CLEAN SAW CUT AND CORING LINES AT ALL NEW MECHANICAL OPENINGS. MAKE GOOD ALL DAMAGED BLOCK / BRICK ADJACENT TO OPENINGS. UNLESS NOTED OTHERWISE ON PLAN PROVIDE STEEL LINTELS ABOVE ALL SUCH OPENINGS IN ACCORDANCE WITH TYPICAL DETAIL **TD-S01**. REFER TO MECHANICAL FOR NUMBER OF OPENINGS AND LOCATIONS.
6. REMOVE EXISTING CEILING FINISHES, MECHANICAL SERVICES, AND THE LIKE TO COMPLETE THE STRUCTURAL WORK. PATCH AND MAKE GOOD.
7. CONNECT NEW RTU TO ITS ROOF CURB AND THE ROOF CURB TO THE STRUCTURE PER MANUFACTURER'S REQUIREMENTS.
8. WE HAVE REVIEWED THE LOADS IMPOSED BY THE PROPOSED RTU ON THE EXISTING STRUCTURE AND IN OUR OPINION THE STRUCTURE CAN SAFELY SUPPORT THE LOAD WITHOUT REINFORCING.

C HIGH ROOF FRAMING PART PLAN

HIGH ROOF ROOF FRAMING NOTES

1. TOP OF EXISTING HOLLOW-CORE SLABS IS AT ELEVATION + 5400 ABOVE EXISTING SLAB ON GRADE UNLESS CROSSED AND NOTED, CONTRACTOR TO SITE VERIFY. ELEVATIONS NOTED ARE REFERENCED FROM TOP OF EXISTING HOLLOW-CORE SLAB ELEVATION + 5400.
2. ROOF (EXTERIOR) DESIGN LOADS ARE:

SUPER-IMPOSED DEAD LOAD	1.0 kPa
SNOW LOAD	1.2 kPa + ASL

MULTIPLIED BY HIGH IMPORTANCE
IULS = 1.15, ISLS = 0.9
3. REFER TO MECHANICAL DRAWINGS FOR ELEVATION OF ALL NEW LINTELS.
4. CONTRACTOR TO RETAIN A PROFESSIONAL ENGINEER, LICENSED IN THE PROVINCE OF ONTARIO, TO PREPARE ENGINEERED DRAWINGS FOR ALL TEMPORARY SHORING AS INDICATED ON PLAN. THE

ENGINEER MUST HAVE A MINIMUM OF 5-YEARS EXPERIENCE IN THE DESIGN OF TEMPORARY SHORING SYSTEMS AND WILL BE RESPONSIBLE FOR REVIEWING THE SHORING INSTALLATION TO ENSURE IT MEETS THEIR DESIGN REQUIREMENTS.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING NEW WORK WITH TEMPORARY SHORING REQUIREMENTS.

PROVIDE CLEAN SAW CUT AND CORING LINES AT ALL NEW MECHANICAL OPENINGS. MAKE GOOD ALL DAMAGED BLOCK/ BRICK ADJACENT TO OPENINGS. UNLESS NOTED OTHERWISE ON PLAN PROVIDE STEEL LINTELS ABOVE ALL SUCH OPENINGS IN ACCORDANCE WITH TYPICAL DETAIL **TD-S01**. REFER TO MECHANICAL FOR NUMBER OF OPENINGS AND LOCATIONS.

REMOVE EXISTING CEILING FINISHES, MECHANICAL SERVICES, AND THE LIKE TO COMPLETE THE STRUCTURAL WORK. PATCH AND MAKE GOOD.

JECT:
**VAUGHAN WILLARD P.S.
- AHU REPIACEMENT**

e: AS NOTED

own by:

checked by: MH / STB

ress:

E: FRAMING PLANS



S-201