

1 3D PERSPECTIVE
S-100

GENERAL NOTES:

- WORK & MATERIALS TO CONFORM TO THE REQUIREMENTS OF THE NATIONAL BUILDING CODE OF CANADA, 2015.
- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH & SAFETY ACT OF NOVA SCOTIA.
- NO ALTERATIONS TO STRUCTURAL DETAILS TO BE MADE WITHOUT THE WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER. ALL OPENINGS IN SLABS OR WALLS ARE TO BE PRE-FORMED & ALL HOLES SLEEVED. CONSTRUCTION ERRORS ARE TO BE DOCUMENTED & REPORTED TO THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH SUBSEQUENT WORK.
- PERIODIC & DISCRETIONARY SITE OBSERVATIONS ARE MADE AT THE JOB SITE BY THE STRUCTURAL ENGINEER & ARE NECESSARILY LIMITED IN SCOPE TO OBSERVATION OF WORK IN PROGRESS AT THE TIME OF THE SITE OBSERVATION. THESE SITE OBSERVATIONS DO NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PROVIDE CONTINUOUS ON-SITE SUPERVISION OF ALL STRUCTURAL WORK TO ENSURE THAT BOTH THE INTENT & DETAILS OF THE DRAWINGS & SPECIFICATIONS ARE BEING FOLLOWED.
- THE CONTRACTOR TO COORDINATE DETAILS SHOWN ON THE STRUCTURAL DRAWINGS WITH ALL OTHER DISCIPLINES DRAWINGS & SPECIFICATIONS.
- THE FOLLOWING SHOP DRAWINGS TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW:
 - CONCRETE REINFORCING STEEL.
 - CONCRETE MIX DESIGNS
 - STRUCTURAL STEEL FABRICATIONS INCLUDING ALL CONNECTION DETAILS. STRUCTURAL STEEL FABRICATION DRAWINGS TO BE STAMPED BY A PROFESSIONAL ENGINEER, REGISTERED OR LICENSED TO PRACTICE IN THE PROVINCE OF NOVA SCOTIA, WHO WILL BE RESPONSIBLE FOR THE DESIGN OF CONNECTIONS. ALL DESIGN LOADINGS SHOWN ON THE STRUCTURAL DRAWINGS, FOR THE PURPOSES OF MEMBER & CONNECTION DESIGN, ARE WORKING LOADS U.N.O.
 - OPEN WEB JOIST CALCULATIONS TO BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED OR REGISTERED TO PRACTICE IN THE PROVINCE OF NOVA SCOTIA, WHO WILL BE RESPONSIBLE FOR THE DESIGN OF THE OPEN WEB STEEL JOISTS.
 - PROPOSED STEPPED FOOTING LOCATIONS & ELEVATIONS & INTERIOR FOOTINGS REQUIRED TO BE LOWERED TO ALLOW PIPING/DUCTBANKS/CONDUIT TO PASS OVER. REFER TO FOUNDATION NOTE 5.
- ALL DESIGN LOADS NOTED ON DRAWINGS ARE WORKING LOADS U.N.O.
- ALL STANDARDS & SPECIFICATIONS NOTED TO REFLECT 'LATEST EDITION'.
- REFER TO ARCHITECTURAL DRAWINGS FOR THE SIZES & LOCATIONS OF ALL EXTERIOR & INTERIOR DOOR & WINDOW OPENINGS THROUGH ALL WALLS.
- COORDINATE ALL DIMENSIONS WITH ALL OTHER DISCIPLINE DRAWINGS. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION

DESIGN NOTES:

- STRUCTURAL ELEMENTS DESIGNED IN ACCORDANCE WITH:
 - CONCRETE: CSA A23.3
 - STEEL: CSA S16
 - TIMBER: CSA-C36
- DESIGN LOADING:
 - WIND:
 - $q_w = 0.42 \text{ kPa}$
 - $q_o = 0.54 \text{ kPa}$
 - SNOW:
 - $S_s = 2.6 \text{ kPa}$
 - $S_i = 0.6 \text{ kPa}$

TIMBER FRAMING NOTES

- ALL TIMBER AND LUMBER TO COMPLY WITH DESIGN STANDARD CSA-086 AND ALL DIMENSIONAL LUMBER TO COMPLY WITH CSA-0141.
- ALL PLYWOOD SHEATHING AND OSB SHEATHING TO COMPLY WITH CSA-0325 CONSTRUCTION SHEATHING.
- ROOF SHEATHING TO BE 19mm (3/4") EXTERIOR GRADE PLYWOOD, REFER TO ARCHITECTURAL DRAWINGS.
- WALL SHEATHING TO BE 19mm (3/4") EXTERIOR GRADE PLYWOOD, REFER TO ARCHITECTURAL DRAWINGS.
- CUTTING OF HOLES OR REMOVAL OF STRUCTURAL FRAMING BY TRADES FOR INSTALLATION OF PIPING, DUCTWORK, ELECTRICAL, ETC. IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
- ROOF TRUSS DRAWINGS TO BE SIGNED BY AN ENGINEER REGISTERED IN THE PROVINCE OF NOVA SCOTIA AND SUBMITTED TO DESIGNPOINT FOR REVIEW PRIOR TO FABRICATION.
- TRUSS DRAWINGS BY SUPPLIER TO SHOW ALL STRUCTURAL INFORMATION INCLUDING MEMBER LOADS, MEMBER SIZES, CONNECTION DETAILS, BRACING, PLACEMENT ETC.
- TRUSS SUPPLIER TO SUBMIT DETAILS AND CAPACITIES OF ALL CONNECTIONS (HANGERS, UPLIFT ANCHORS, ETC.) FOR APPROVAL PRIOR TO FABRICATION.
- HANGING OF SERVICES FROM TRUSSES MUST BE STAGGERED AND APPROVED BY THE STRUCTURAL ENGINEER.
- INSTALL WOOD SHEATHING TO STUD WALLS AND ROOF FRAMING WITH JOINTS STAGGERED AND ENDS BUTTED OVER FRAMING. NAIL WOOD SHEATHING WITH 64mm (2 1/2") LONG COMMON POWER-DRIVEN NAILS AT 152mm (6") o/c ALONG EDGES.
- LAMINATED VENEER LUMBER (LVL) OR APPROVED EQUIVALENT, MINIMUM PROPERTIES TO BE:
 - $F_b = 39.5 \text{ MPa}$ (2900 PSI)
 - $F_t = 2.0 \text{ MPa}$ (285 PSI)
 - $E = 14400 \text{ MPa}$ (2,000,000 PSI)
 (BOISE CASCADE VERSA-LAM OR APPROVED EQUIVALENT)

STRUCTURAL STEEL NOTES

- ALL STRUCTURAL STEEL TO BE NEW STOCK & CONFORM TO THE FOLLOWING GRADES & STANDARDS.
 - STEEL SECTIONS - CAN/CSA-G40.21, GRADE 350W OR ASTM 572, GRADE 345 MPa WHERE APPLICABLE.
 - HOLLOW STRUCTURAL SECTIONS - CAN/CSA-G40.21, GRADE 350W CLASS C.
 - ANGLES, CHANNELS & PLATES - CAN/CSA-G40.21, GRADE 300W.
 - BARS - CAN/CSA-G40.21, GRADE 300W.
- ALL STRUCTURAL STEEL TO BE FABRICATED & ERECTED IN ACCORDANCE WITH CSA S16, LATEST EDITION.
- ALL WELDING & WELD MATERIALS TO COMPLY WITH CSA-W59, LATEST EDITION, & BE PERFORMED BY A FABRICATOR FULLY APPROVED UNDER CSA-W47.1, LATEST EDITION, DIVISIONS NO. 1 & NO. 2.
- ALL BOLTS, NUTS & WASHERS FOR STRUCTURAL STEEL CONNECTIONS TO CONFORM TO ASTM F3125/F3125M, LATEST EDITION U.N.O.
- ALL ANCHOR RODS, NUTS & WASHERS TO CONFORM TO ASTM A307 OR ASTM A449 AS NOTED, LATEST EDITION.
- STRUCTURAL STEEL PRIMER:
 - FOR STEEL TO BE COATED WITH ARCHITECTURAL PAINT, PRIMER TO CISC/CPMA 2-75 U.N.O. TOUCH UP SCRATCHES, BOLTS, AND WELDS AFTER ALL STEEL IS ERECTED.
 - FOR ALL OTHER STEEL PRIMER TO CISC/CPMA 1-73-A U.N.O. TOUCH UP SCRATCHES, BOLTS, AND WELDS AFTER ALL STEEL IS ERECTED.
 - REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS TO BE PAINTED OR UNPAINTED.
- SPLICES IN STRUCTURAL STEEL MEMBERS, OTHER THAN THOSE SHOWN ON THE DRAWINGS, MUST HAVE THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
- ALL WELDED JOINTS IN ARCHITECTURALLY EXPOSED STRUCTURAL STEEL TO BE GROUND SMOOTH & HAVE ALL WELD SPATTER REMOVED.
- BOLTS IN SLOTTED HOLE CONNECTIONS MUST BE INSTALLED CONCENTRICALLY WITH THE SLOTTED PLATE TO PERMIT FREE MOVEMENT IN THE DIRECTION OF THE SLOT. SET THE NUTS WITH A COLD CHISEL OR PROVIDE PERMANENT RESTRAINT BY OTHER MEANS.
- TYPICAL SHEAR CONNECTIONS ARE TO BE DESIGNED TO RESIST 50% OF THE TOTAL UNIFORMLY DISTRIBUTED FACTORED LOAD CAPACITY OF THE MEMBERS U.N.O..
- PROVIDE MINIMUM 1/4" (6mm) THICK CAP PLATE AT ALL COLUMNS TYPICAL U.N.O..
- ALL STEEL NOTED TO BE GALVANIZED TO BE HOT DIPPED WITH MINIMUM ZINC COATING OF 2.0 oz/ft² (600 g/m²) & CONFORMING TO ASTM A123/123M.
- GRIND ALL FIELD WELD AREAS FREE OF GALVANIZING BEFORE WELDING. COAT ALL FIELD WELDS, NICKS/SCRATCHES & BOLTED CONNECTIONS WITH ZINC RICH PRIMER IN ACCORDANCE WITH CAN/CSG 1.181.

FOUNDATION NOTES:

- FOUNDATIONS ARE DESIGNED TO BEAR ON UNDISTURBED NATIVE MATERIAL OR FULLY COMPACTED ENGINEERED FILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 150 kPa (3 ksf). THESE BEARING PRESSURES ARE ASSUMED & TO BE VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO POURING ANY CONCRETE.
- ALL ENGINEERED (STRUCTURAL) FILL & BACKFILLING IS TO BE PLACED UNDER THE CONTINUOUS SUPERVISION OF THE GEOTECHNICAL ENGINEER.
- THE GEOTECHNICAL ENGINEER TO INSPECT ALL PROPOSED BEARING SURFACES & CONFIRM THAT THE ALLOWABLE BEARING CAPACITY STATED IN THE GEOTECHNICAL REPORT, CAN BE ACHIEVED PRIOR TO PLACEMENT OF ANY CONCRETE IN FOOTINGS, & THAT BEARING SURFACE IS FREE FROM FROST & WATER. IF THE GEOTECHNICAL ENGINEER DEEMS BEARING SURFACE CAN NOT PROVIDE THE ALLOWABLE BEARING CAPACITY, THE CONTRACTOR IS TO LOWER FOOTINGS AS DIRECTED BY GEOTECHNICAL ENGINEER TO A LEVEL THAT CAN PROVIDE THE ALLOWABLE BEARING CAPACITY.
- BACKFILLING AGAINST WALLS OR GRADE BEAMS TO PROCEED IN APPROXIMATELY EQUAL LIFTS ON BOTH SIDES OF THE WALL OR GRADE BEAM, UNLESS NOTED OTHERWISE.
- NO PIPING/DUCTBANKS/CONDUIT ARE TO PASS UNDER ANY LOAD BEARING FOUNDATIONS OR WITHIN THEIR ASSOCIATED ZONE OF INFLUENCE.
- PROVIDE SHEAR KEYS IN THE TOP OF ALL CONCRETE WALL FOOTINGS, CENTRED UNDER WALL LOCATIONS.

REINFORCED CONCRETE NOTES

- ALL CONCRETE, CONCRETE MATERIALS, FORMS, WORKING PROCEDURES & THE LIKE TO CONFORM TO CSA A23.1, LATEST EDITION, UNLESS NOTED OTHERWISE.
- ALL CONCRETE TESTING TO CONFORM TO CSA-A32.2, CONTRACTOR TO BE RESPONSIBLE FOR ALL CONCRETE TESTING.
- MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS & CLASS OF EXPOSURE TO BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:
 - BUILDING FOUNDATIONS, FROST WALLS: 25 MPa/F-2
 - INTERIOR SLABS ON GRADE: 25 MPa/N
 - MUD SLABS: 20 MPa/N
 - CURBS, EXTERIOR PADS & WALKWAYS 32 MPa/C-2
- CONCRETE PROTECTIVE COVER TO REINFORCING STEEL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:
 - CAST AGAINST GROUND - NO FORM WORK: 76mm (3")
 - EXPOSED TO EARTH OR WEATHER: 60mm (2 3/8")
- ALL REINFORCING STEEL TO BE DETAILED, FABRICATED, PLACED AND SUPPORTED IN ACCORDANCE WITH THE 'REINFORCING STEEL MANUAL OF STANDARD PRACTICE' BY THE REINFORCING STEEL INSTITUTE OF CANADA.
- ALL REINFORCING BARS MUST BE ACCURATELY SUPPORTED ON PLASTIC COATED STEEL HIGH CHAIRS TO MAINTAIN SPECIFIED CONCRETE COVER.
- CONSTRUCTION JOINTS TO BE LOCATED SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE. LOCATIONS TO BE AS SHOWN ON THE DRAWINGS OR CONTRACTOR IS TO SUBMIT PROPOSED CONSTRUCTION JOINTS FOR THE STRUCTURAL ENGINEER'S APPROVAL. CONSTRUCTION JOINTS TO BE KEVED & REINFORCEMENT TO NOT BE INTERRUPTED.
- ALL REINFORCING STEEL TO HAVE A MINIMUM YIELD POINT STRENGTH OF 400 MPa & TO CONFORM TO CSA 30.18-M, LATEST EDITION.
- ALL W.W.F. TO CONFORM TO ASTM A82 & ASTM A185, LATEST EDITIONS. UNLESS NOTED OTHERWISE, REINFORCING STEEL TO BE PROVIDED WITH A CLASS 'B' TENSION LAP TO CSA-A23.3, LATEST EDITION AT ALL SPLICE LOCATIONS.



revisions	date	project
4	ISSUED FOR TENDER - ADDENDUM	22.09.07
3	ISSUED FOR TENDER	22.03.31
2	ISSUED FOR 90% REVIEW	22.03.11
1	ISSUED FOR 60% CD	22.01.22

INGONISH BEACH WASHROOM AND KIOSK

drawing dessin

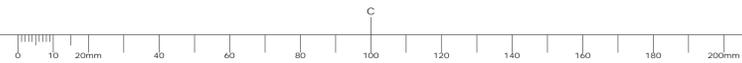
3D PERSPECTIVES & NOTES

designed	A. MCCracken	conçu
date	19- JAN- 2022	
drawn	A. MCCracken	dessiné
date	19- JAN- 2022	
approved	E. TEASDALE	approuvé
date	31- MAR- 2022	

Tender Soumission
DUGGAN KENNEDY
Project Manager Administrateur de projets

project number no. du projet
21- 389

drawing no. no. du dessin
S- 100





4	ISSUED FOR TENDER - ADDENDUM	22.09.07
3	ISSUED FOR TENDER	22.03.31
2	ISSUED FOR 90% REVIEW	22.03.11
1	ISSUED FOR 60% CD	22.01.22

revisions		date
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INGONISH BEACH WASHROOM AND KIOSK

drawing dessin

FOUNDATION PLAN

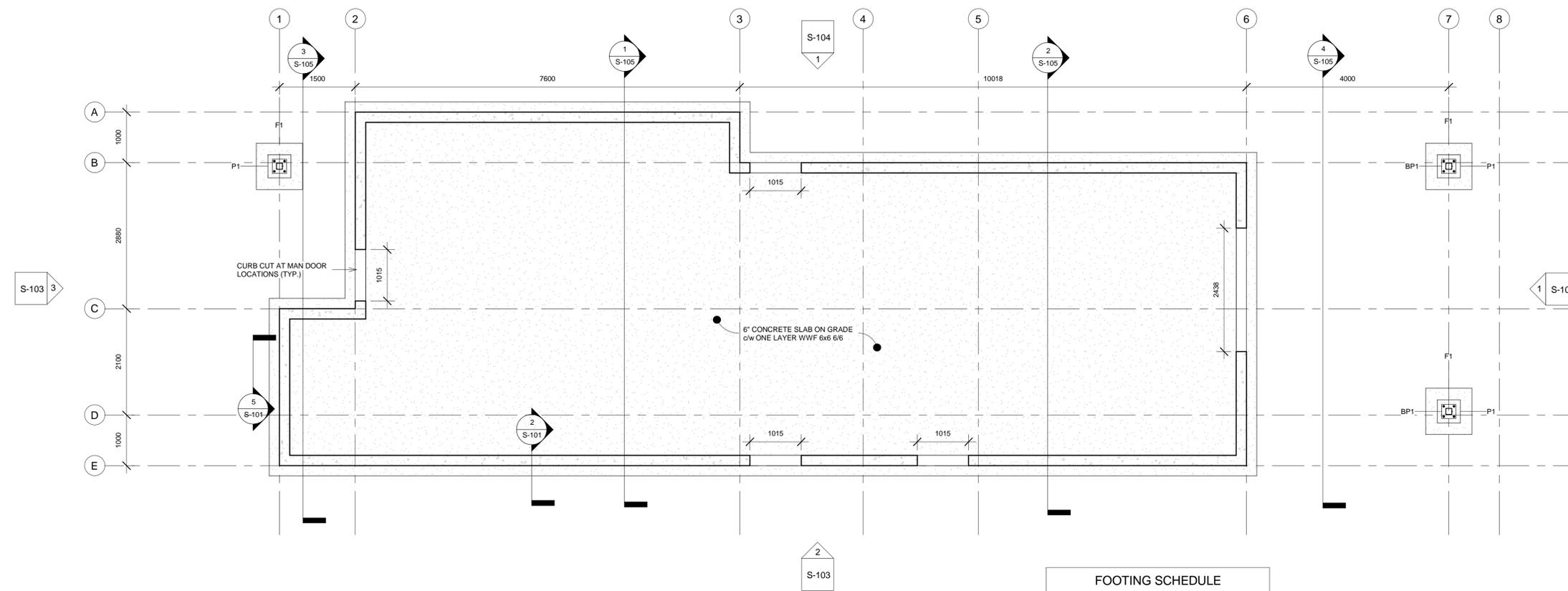
designed	A. MCCracken	conçu
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Tender DUGGAN KENNEDY
Project Manager Administrateur de projets
project number no. du projet

21- 389

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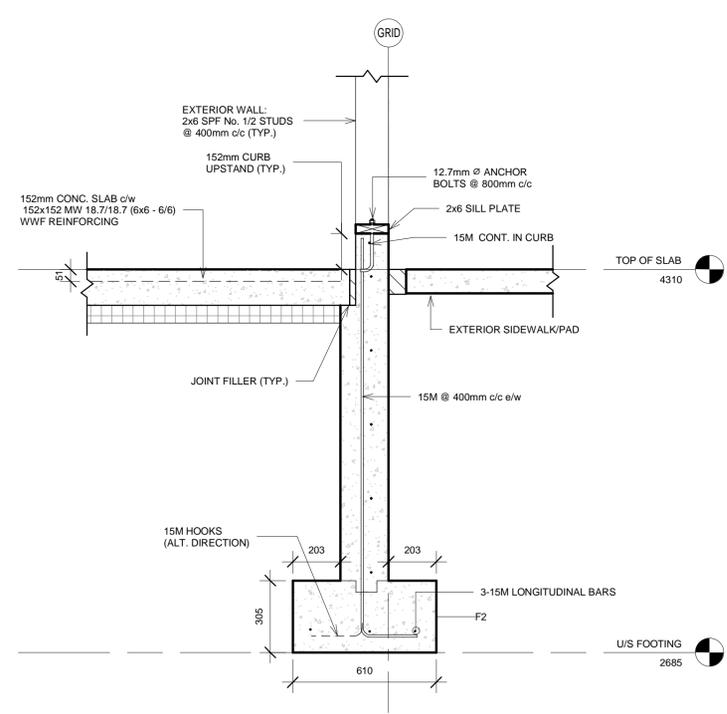
S- 101



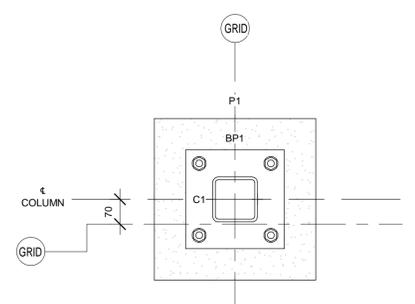
FOOTING SCHEDULE

TYPE MARK	TYPE	REINFORCING
F1	914x914x305mm	3-15M e/w 1&b
F2	610x305mm STRIP	3-15M LONGITUDINAL

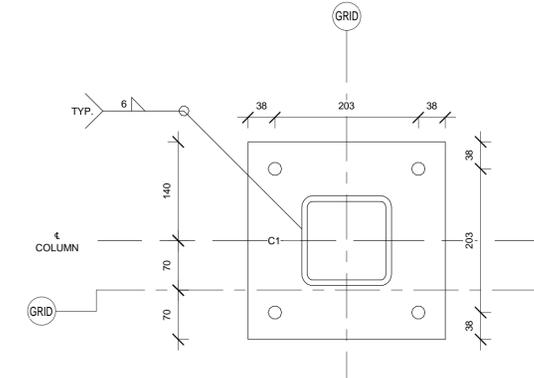
1 FOUNDATION PLAN
S-101 1:50



2 FOUNDATION WALL DETAIL
S-102 1:15

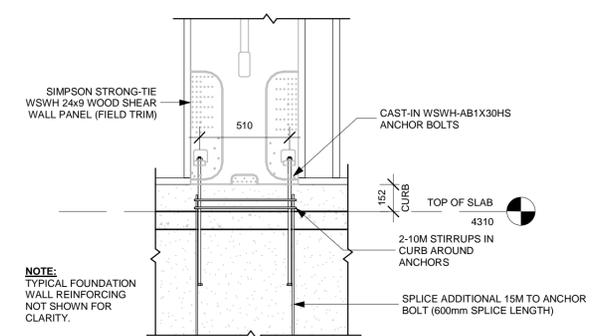


3 PILASTER - P1
S-103 1:10



4 BASE PLATE - BP1
S-104 1:5

- BASE PLATE NOTES:**
- ALL BASE PLATES TO BE 3/4" (19mm) THICK U.N.O.
 - PROVIDE 1" (25mm) THICK NON-SHRINK GROUT UNDER ALL BASE PLATES
 - ALL BASE PLATES TO BE CENTRED ON GRID & COLUMN U.N.O.
 - SEE FOOTING SCHEDULE FOR U/S BASE PLATE ELEVATIONS
 - COLUMNS TO BE WELDED TO BASE PLATES WITH 1/4" (6mm) FILLET WELD ALL AROUND TYP. U.N.O.



5 FOUNDATION AT STRONGWALL
S-105 1:20

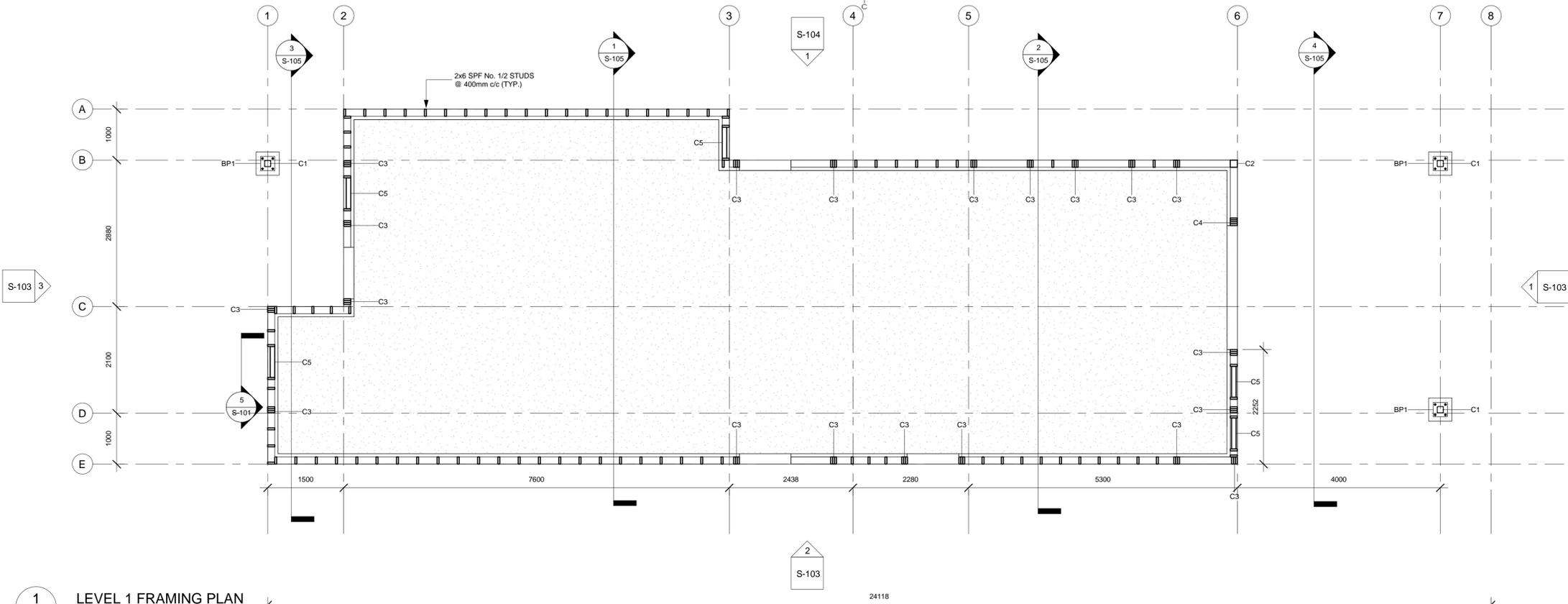


revisions	date	
4	ISSUED FOR TENDER - ADDENDUM	22.09.07
3	ISSUED FOR TENDER	22.03.31
2	ISSUED FOR 90% REVIEW	22.03.11
1	ISSUED FOR 60% CD	22.01.22

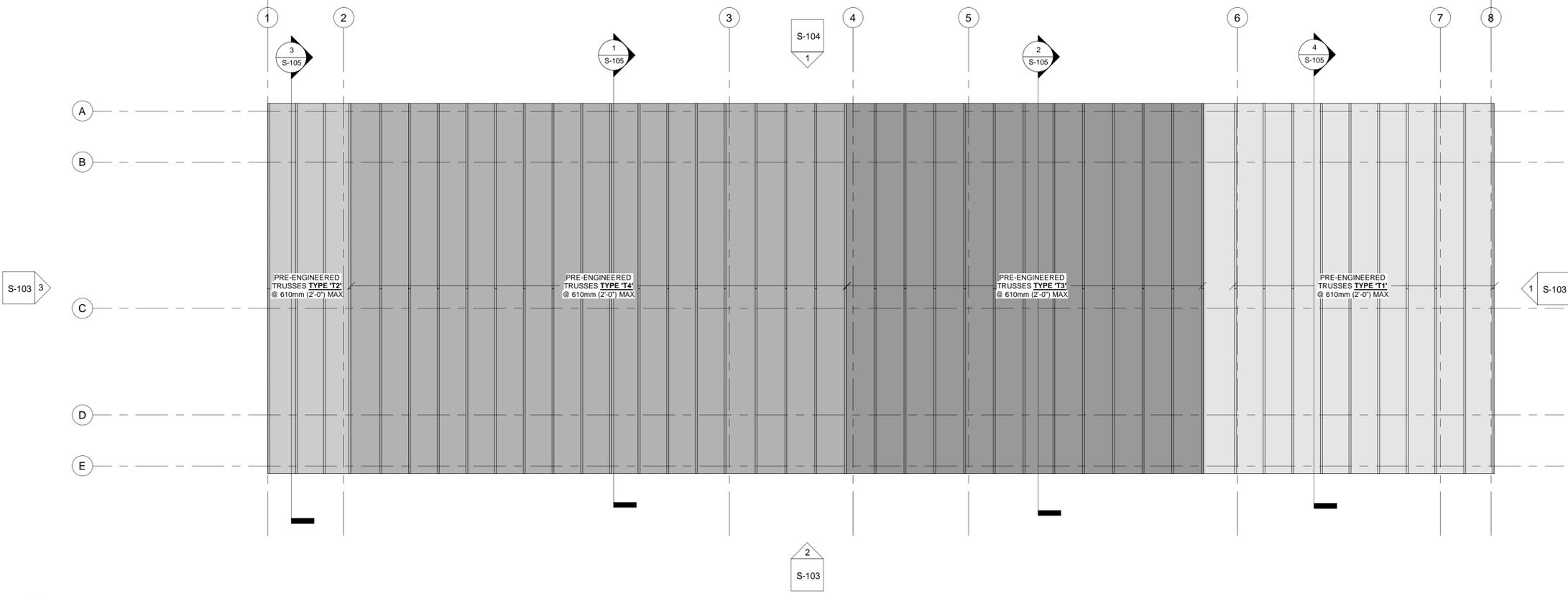
INGONISH BEACH WASHROOM AND KIOSK

LEVEL 1 & ROOF FRAMING PLANS

designed	A. MCCRACKEN	conçu
date	19- JAN- 2022	
drawn	A. MCCRACKEN	dessiné
date	19- JAN- 2022	
approved	E. TEASDALE	approuvé
date	31- MAR- 2022	
Tender	DUGGAN KENNEDY	Soumission
Project Manager	Administrateur de projets	
project number	21- 389	no. du projet
drawing no.	S- 102	no. du dessin



1 LEVEL 1 FRAMING PLAN
1:50



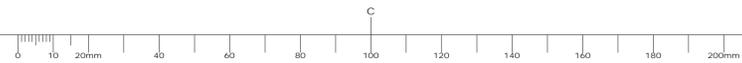
2 ROOF FRAMING PLAN
1:50

STRUCTURAL FRAMING SCHEDULE

TYPE MARK	TYPE	GRADE
B1	5.25"x11.25"	LVL 2100Fb-2.1E
B2	5.25"x9.25"	LVL 2100Fb-2.1E
B3	3-Ply 2x10	SPF No. 1/2

COLUMN SCHEDULE

TYPE MARK	TYPE	DESCRIPTION
C1	HS127x127x8.0	CSA G40.21 STEEL
C2	6x6 POST	SPF No. 1
C3	3-Ply 2x6	SPF No. 1/2
C4	4-Ply 2x6	SPF No. 1/2
C5	SIMPSON WSHW2x9	WOOD SHEAR WALL PANEL



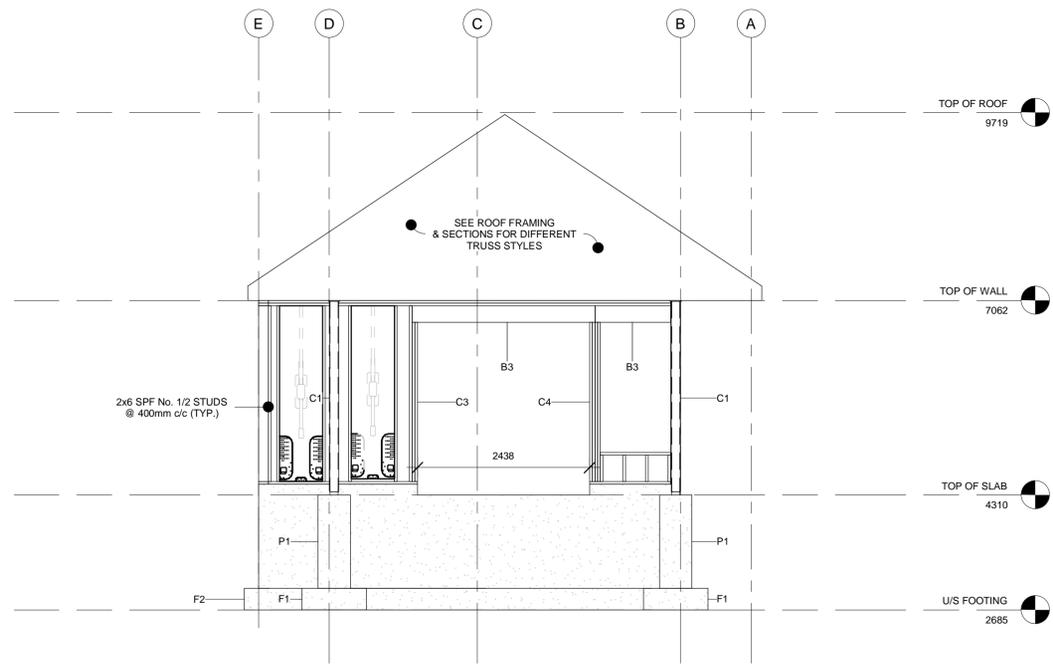


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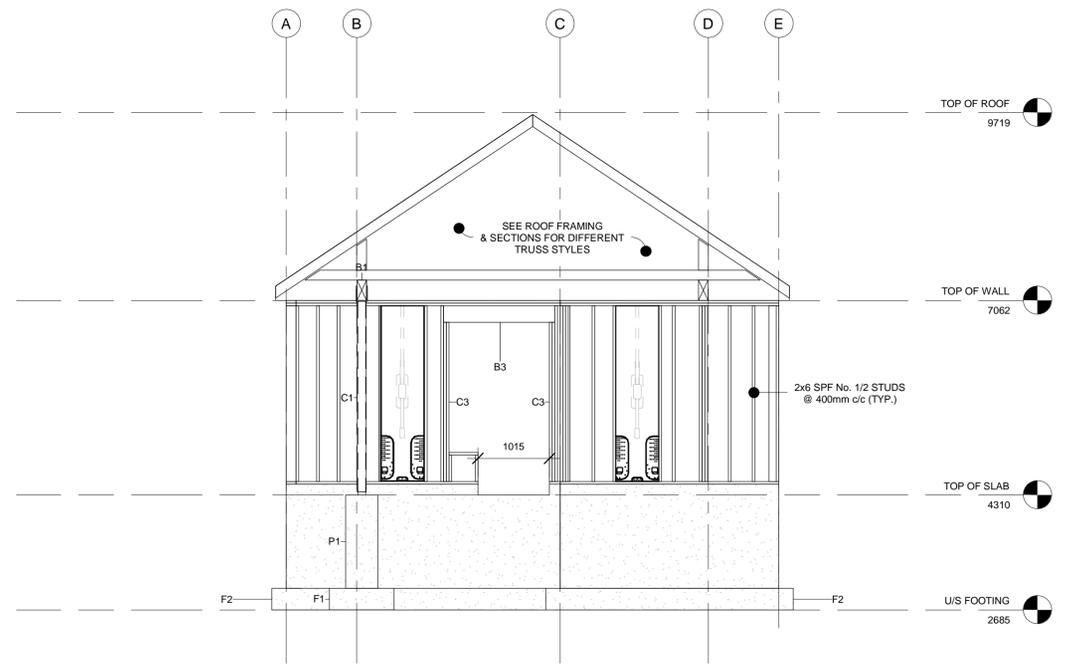
INGONISH BEACH WASHROOM AND KIOSK

STRUCTURAL ELEVATION VIEWS

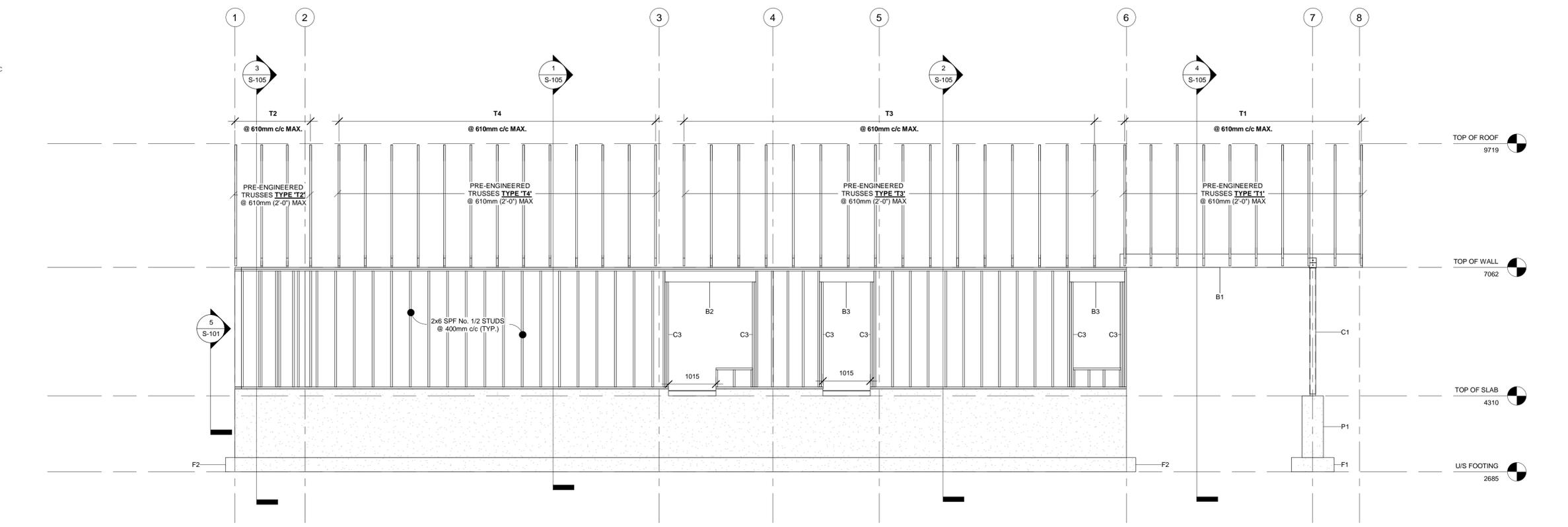
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date	31- MAR- 2022	
Tender	DUGGAN KENNEDY	Soumission
Project Manager	Administrateur de projets	
project number	21- 389	no. du projet
drawing no.	S- 103	no. du dessin



1 WEST ELEVATION
S-103 1:50



3 EAST ELEVATION
S-103 1:50

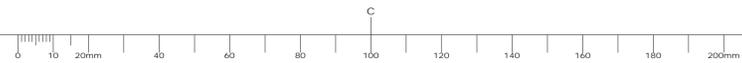


2 NORTH ELEVATION
S-103 1:50

STRUCTURAL FRAMING SCHEDULE		
TYPE MARK	TYPE	GRADE
B1	5.25"x11.25"	LVL 2100Fb-2.1E
B2	5.25"x9.25"	LVL 2100Fb-2.1E
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C4	4-Ply 2x6	SPF No. 1/2
C5	SIMPSON WSWH24x9	WOOD SHEAR WALL PANEL

FOOTING SCHEDULE		
TYPE MARK	TYPE	REINFORCING
F1	914x914x305mm	3-15M e/w 1&b
F2	610x305mm STRIP	3-15M LONGITUDINAL



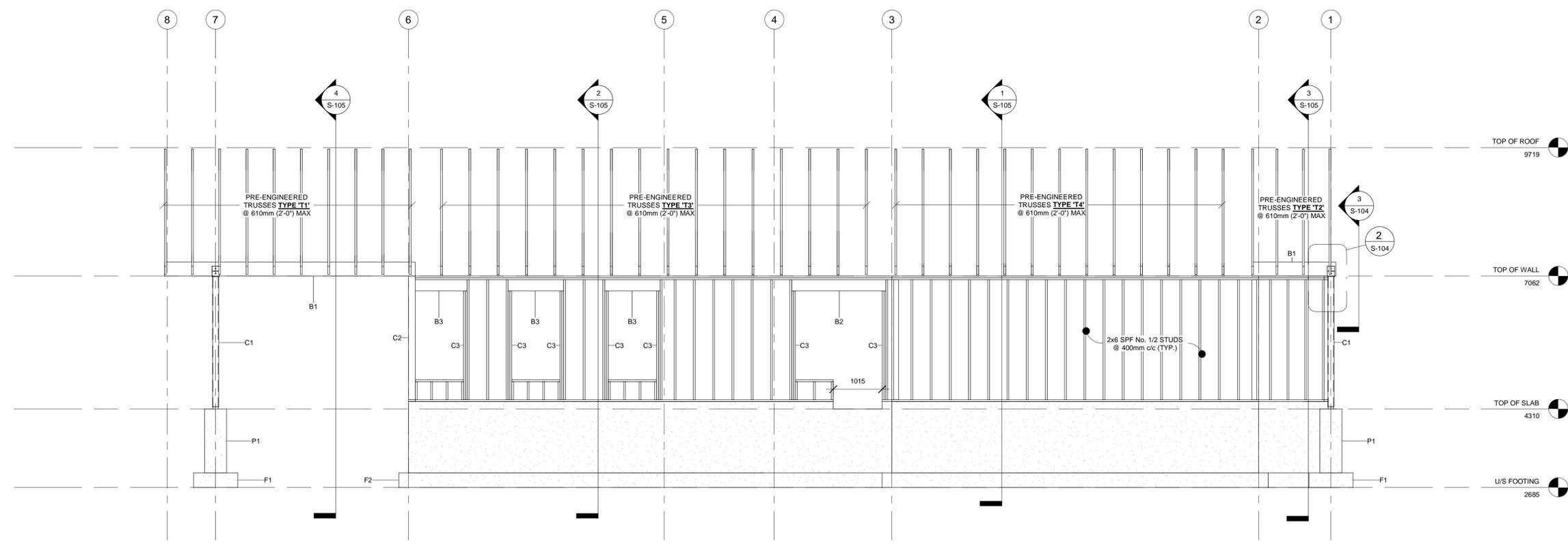


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INGONISH BEACH WASHROOM AND KIOSK

STRUCTURAL ELEVATION VIEWS & DETAILS

designed	A. MCCRACKEN	conçu
date	19- JAN- 2022	
drawn	A. MCCRACKEN	dessiné
date	19- JAN- 2022	
approved	E. TEASDALE	approuvé
date	31- MAR- 2022	
Tender	DUGGAN KENNEDY	Soumission
Project Manager	Administrateur de projets	
project number	21- 389	no. du projet
drawing no.	S- 104	no. du dessin



1 SOUTH ELEVATION
1 : 50

STRUCTURAL FRAMING SCHEDULE

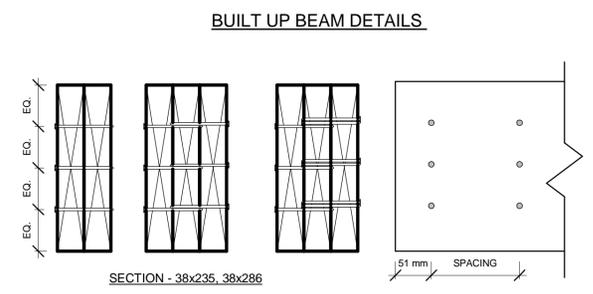
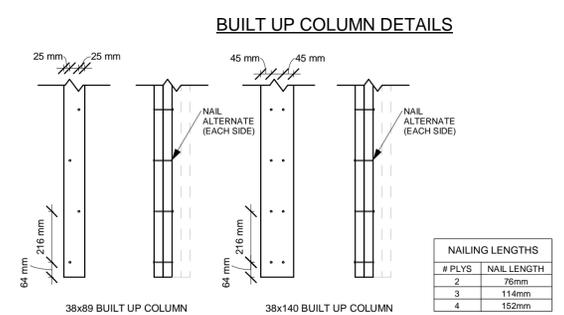
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C5	SIMPSON WSWH24x9	WOOD SHEAR WALL PANEL

FOOTING SCHEDULE

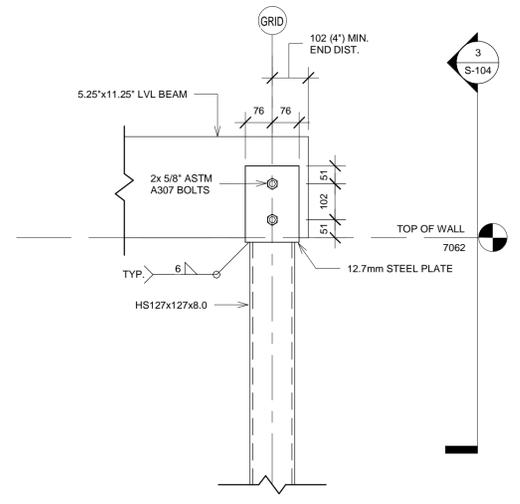
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F1	914x914x305mm	3-15M e/w 18b
F2	610x305mm STRIP	3-15M LONGITUDINAL



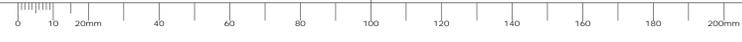
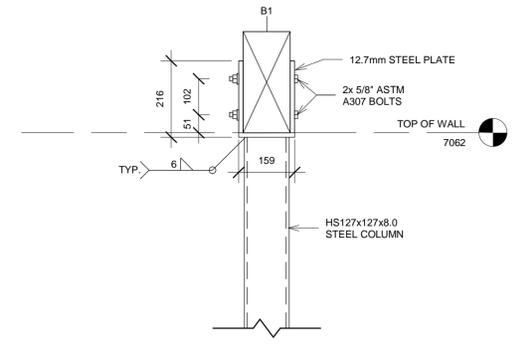
NAILING REQUIREMENTS FOR SIDE LOADED BEAMS

MEMBER	# PLYS	SPACING
SPF 2x6 2x8	2	(2) @ 150mm STAGGERED
	3	(2) @ 150mm
	4	(2) @ 100mm
	2	(2) @ 300mm
SPF 2x10 2x12	3	(2) @ 200mm
	4	(2) @ 150mm

- NOTES:**
- ALL NAILS TO BE MINIMUM 76mm x 3.3mm Ø AIR NAILS OR BETTER.
 - SIDE LOADED BEAMS EXCEEDING 4-PLY IS NOT CONSIDERED ACCEPTABLE.
 - FOR ENGINEERED LUMBER, SEE MANUFACTURER'S RECOMMENDATIONS.
 - FOLLOW NAILING PATTERN SPECIFIED FOR 2-PLY BEAMS FOR MULTI-PLY BEAMS LOADED IN UNIFORM TOP BEARING.



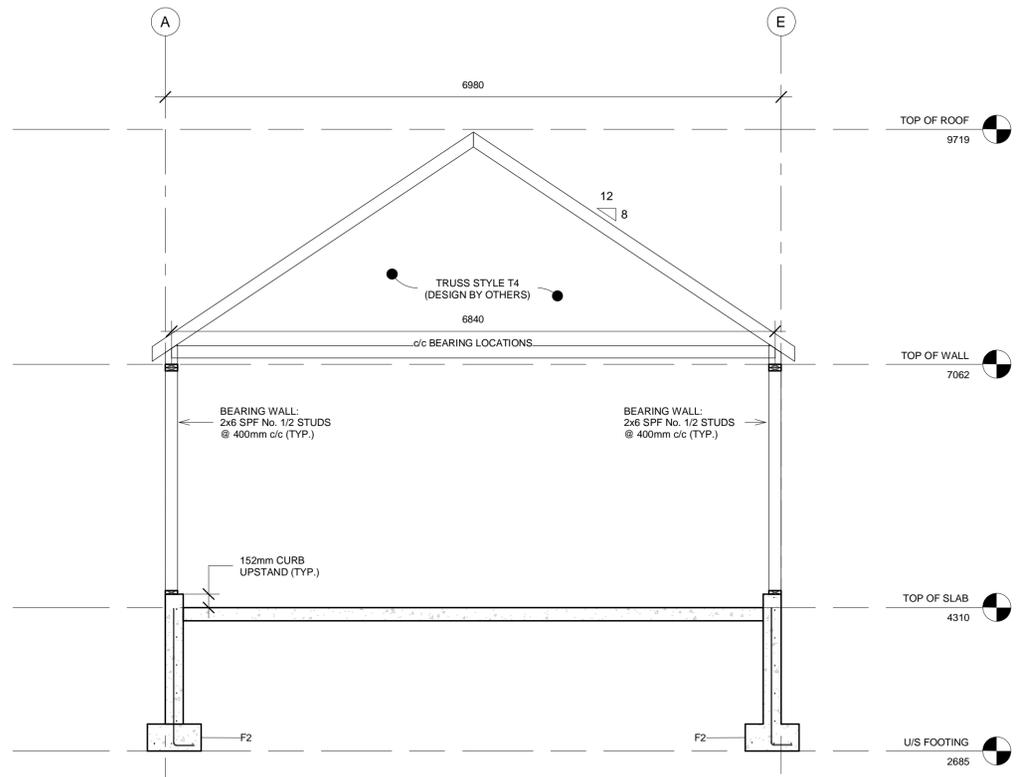
3 BEAM TO COLUMN
1 : 10



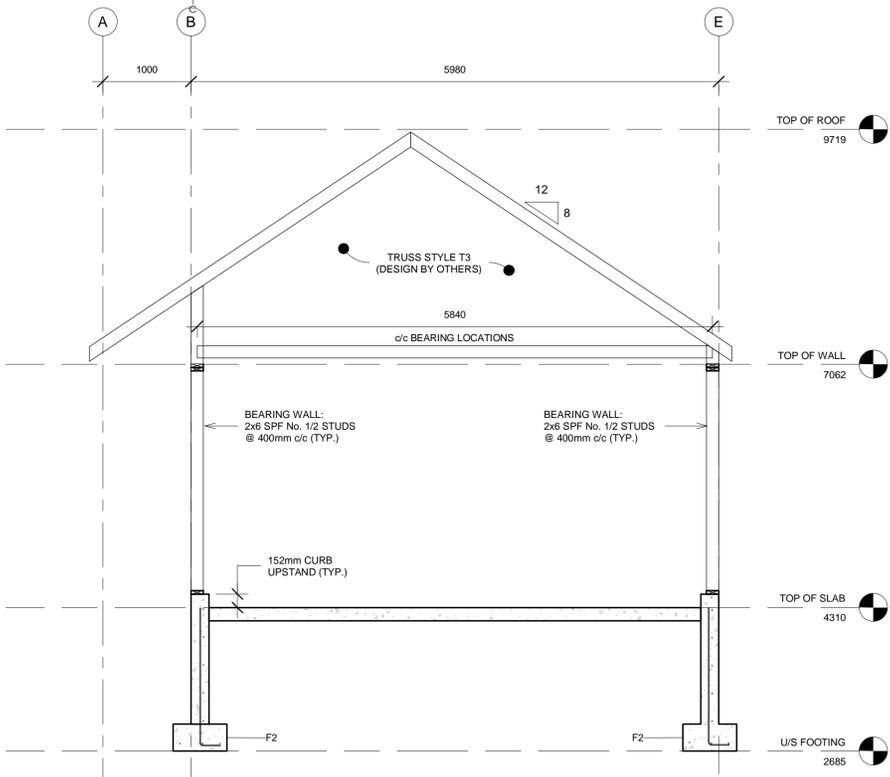
COLUMN SCHEDULE		
TYPE MARK	TYPE	DESCRIPTION
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STRUCTURAL FRAMING SCHEDULE		
TYPE MARK	TYPE	GRADE
B1	5.25"x11.25"	LVL 2100Fb-2.1E
B2	5.25"x9.25"	LVL 2100Fb-2.1E
B3	3-Ply 2x10	SPF No. 1/2

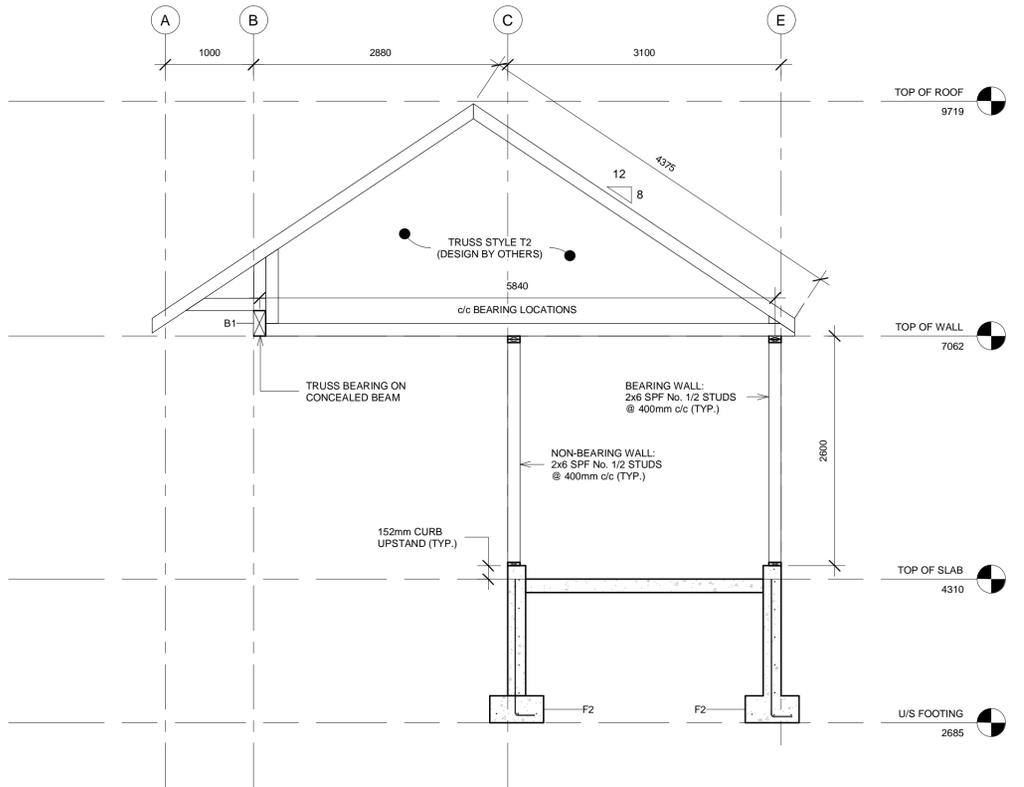
FOOTING SCHEDULE		
TYPE MARK	TYPE	REINFORCING
F1	914x914x305mm	3-15M ew1&b
F2	610x305mm STRIP	3-15M LONGITUDINAL



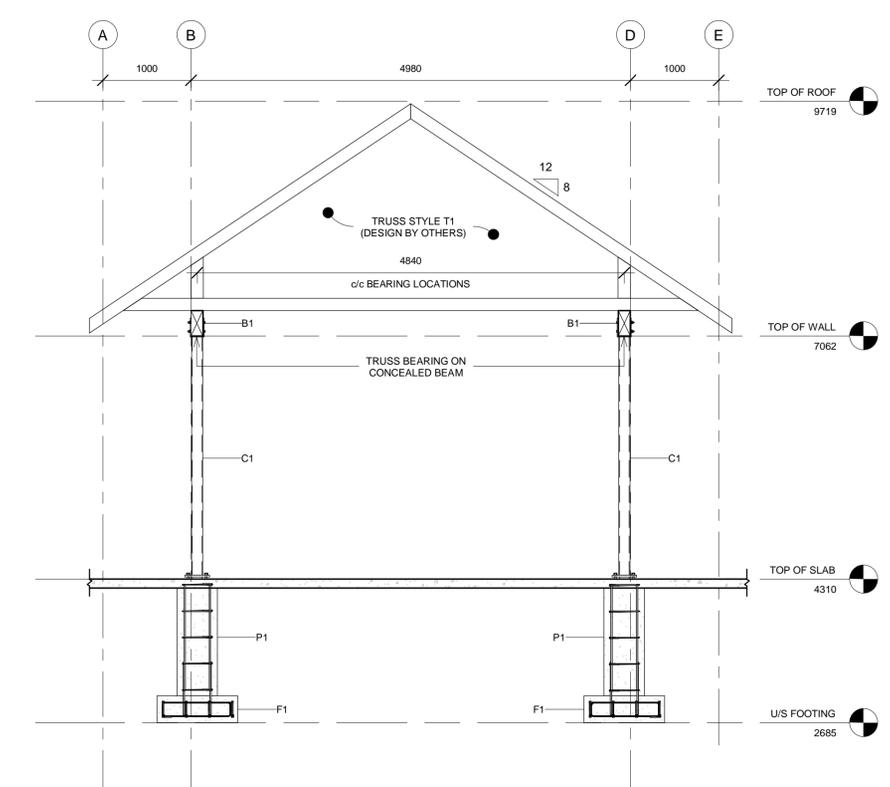
1 SECTION 1
S-105 1:40



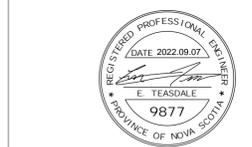
2 SECTION 2
S-105 1:40



3 SECTION 3
S-105 1:40



4 SECTION 4
S-105 1:40



revisions	date
4	ISSUED FOR TENDER - ADDENDUM 22.09.07
3	ISSUED FOR TENDER 22.03.31
2	ISSUED FOR 90% REVIEW 22.03.11
1	ISSUED FOR 60% CD 22.01.22

INGONISH BEACH WASHROOM AND KIOSK

STRUCTURAL SECTIONS

designed	A. MCCracken	conçu
date	19-JAN-2022	
drawn	A. MCCracken	dessiné
date	19-JAN-2022	
approved	E. TEASDALE	approuvé
date	31-MAR-2022	

Tender	DUGGAN KENNEDY	Soumission
Project Manager	Administrateur de projets	
project number	no. du projet	
21- 389		

drawing no. S- 105 no. du dessin

