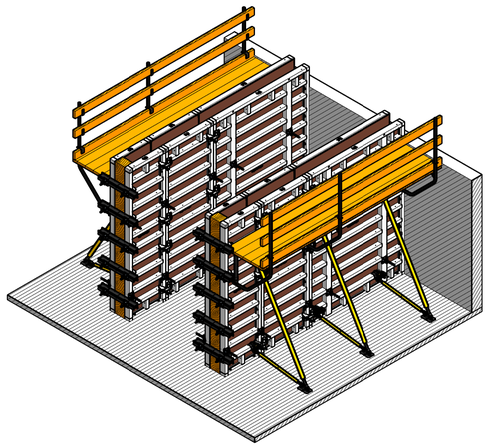
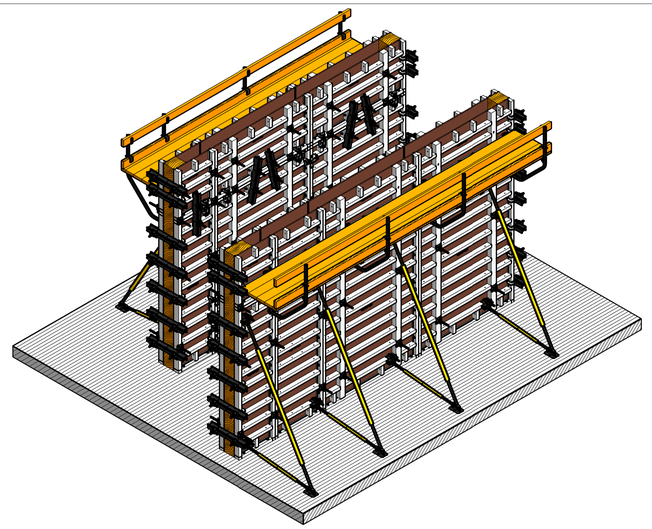
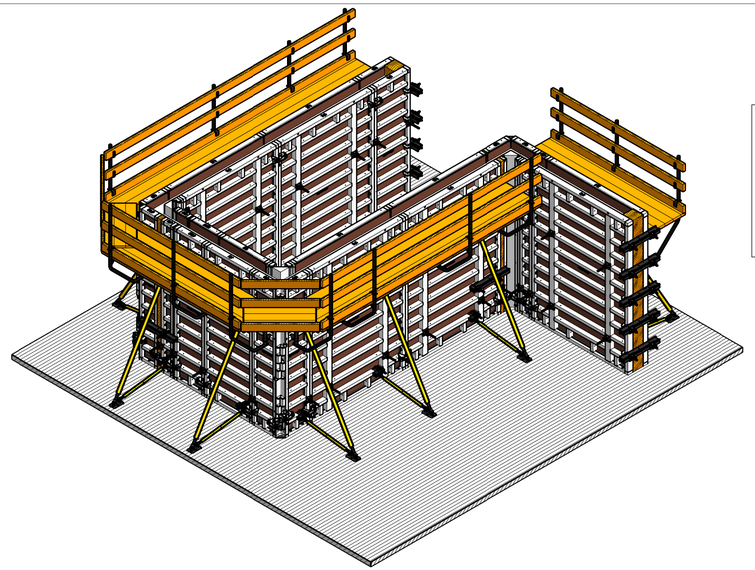


STAIR CORE D @ P1



STAIR CORE D @ GROUND



STAIR CORE C @ P1

LEGEND - FORMING

B/O = BOX OUT (BY CONTR.)
F.I.F = FORMING FIELD (BY CONTR.)
J.B.F. = JOB BUILT FILLER (BY CONTR.)
I.C. = INSIDE CORNER.
H.I.C = HINGED INSIDE CORNER.
H.O.C = HINGED OUTSIDE CORNER.
R.I.C = RETRACTABLE INSIDE CORNER.
U.C. = UNIVERSAL CORNER.
U.H.C. = UNIVERSAL HINGED CORNER.
C.T. = COMPENSATION TUBE.
W.B. = WALKWAY BRACKET.
W = WALER
C.F. = COMPENSATION FILLER.
U.F. = UNIVERSAL PANEL.
T/R = TIE ROD.
T/T = TAPER TIE.
S/B = SHE-BOLT.
F.F. = STEP FOOTING.
C.J. = CONSTRUCTION JOINT.
U.O.N. = UNLESS OTHERWISE NOTED.
O.C. = OUTSIDE CORNER.

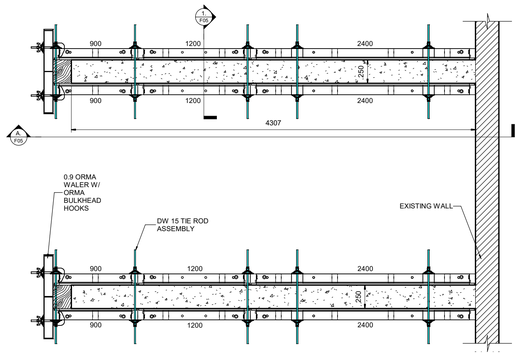
PRELIMINARY
NOT FOR CONSTRUCTION

THIS DRAWING IS CREATED IN REFERENCE TO THE DRAWING PROVIDED BY THE CUSTOMER DESCRIBED AS:
S202 = S203 _ _

DATED: 2022-07-22

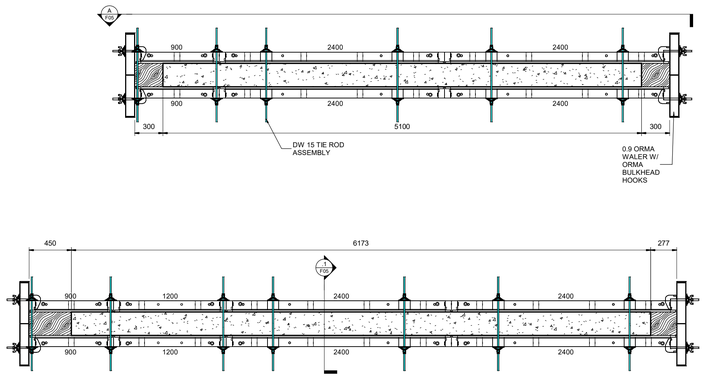
MAXIMUM DESIGN CONCRETE PRESSURE (Pmax)
1150 PSF / 55 kN/m2 (U.O.N.)

CONTRACTOR NOT TO EXCEED POUR HEIGHTS PRODUCING LATERAL PRESSURE GREATER THAN THE DESIGN PRESSURE STATED ABOVE



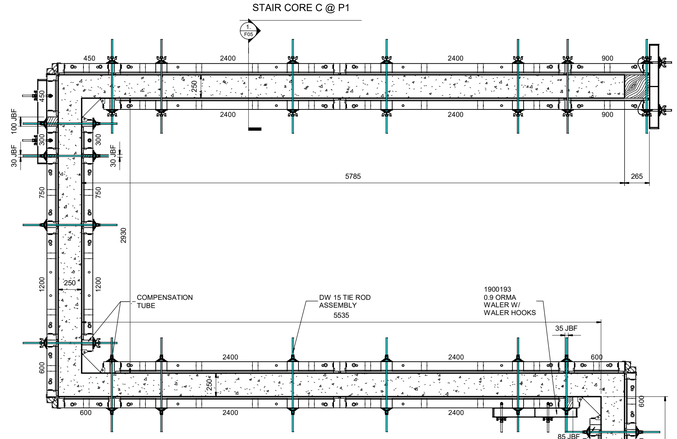
STAIR CORE D FORMING @ P1

1 : 30



STAIR CORE D FORMING @ GROUND

1 : 30



STAIR CORE C FORMING @ P1

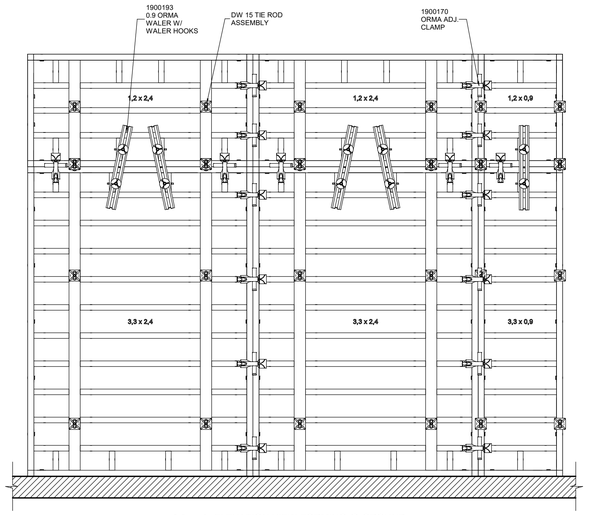
1 : 30

Table 1. BASE VALUES FOR LATERAL PRESSURE ON WALL FORMS
Apply Weight & Chemistry co-efficients to determine pressure design [150+43,400/T + 2800 R/T] applies where placement height is more than 14ft. where placement height is 14ft. or less [150 900 R/T] shown in the boxed area may be applied for R less than 7 ft. per hr.

Rate of placement R, ft per hr	Concrete temperature during placement, degrees F											
	90°F		80°F		70°F		60°F		50°F		40°F	
1	663	250	728	263	810	279	920	300	1074	330	1305	375
2	694	350	763	375	850	407	967	450	1130	510	1375	600
3	726	450	798	488	890	536	1013	600	1186	690	1445	825
4	757	550	833	600	930	664	1060	750	1242	870	1515	1050
5	788	650	868	713	970	793	1107	900	1298	1050	1585	1275
6	819	750	903	825	1010	921	1153	1050	1354	1230	1655	1500
7	850		938		1050		1200		1410		1725	
8	881		973		1090		1247		1466		1795	
9	912		1008		1130		1293		1522		1865	
10	943		1043		1170		1340		1578		1935	
11	974		1078		1210		1387		1634		2005	
12	1006		1113		1250		1433		1690		2075	
13	1037		1148		1290		1480		1746		2145	
14	1068		1183		1330		1527		1802		2215	
15	1099		1218		1370		1573		1858		2285	

Table 2. CO-EFFICIENTS TO BE USED IN PRESSURE EQUATIONS

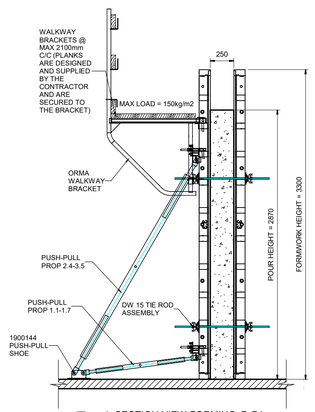
CHEMISTRY COEFFICIENT, Cc	
Types I, II, and III cement without retarders	1.0
Types I, II, and III cement with a retarder	1.2
Other types or blends without retarders containing less than 70% slag or less than 40% fly ash	1.2
Other types or blends with a retarder containing less than 70% slag or less than 40% fly ash	1.4
Blends containing more than 70% slag or 40%fly ash	1.4
UNIT WEIGHT COEFFICIENT, Cw	
Concrete weighing less than 140 Cw = 0.5(1+w/145) but not less than 0.80	
Concrete weighing 140 to 150 pcf Cw = 1.0	
Concrete weighing more than Cw = w/145	



A. ELEVATION VIEW FORMING @ GROUND

A / F05

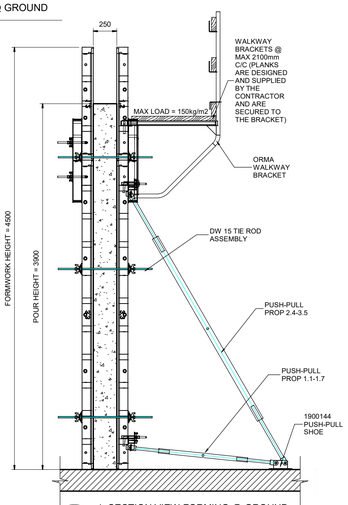
1 : 30



1. SECTION VIEW FORMING @ P1

1 / F05

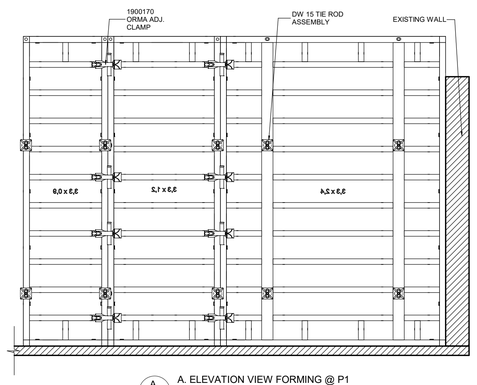
1 : 30



1. SECTION VIEW FORMING @ GROUND

1 / F05

1 : 30



A. ELEVATION VIEW FORMING @ P1

A. / F05

1 : 30

GENERAL NOTE:
THIS DRAWING IS THE PROPERTY OF ULMA CONSTRUCTION SYSTEMS CANADA INC.

IT IS OUR SUGGESTED LAYOUT AND IS NOT TO BE MISUSED OR COPIED IN ANY WAY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS BEFORE CONSTRUCTION. WOOD FRAMING, JOB BUILT FILLERS, BOX-OUTS AND FRAMING ARE ILLUSTRATIONS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE FABRICATIONS, PLACEMENT AND STRUCTURAL INTEGRITY OF EACH ITEM. UNLESS PROPOSAL STATES OTHERWISE, ULMA CONSTRUCTION SYSTEMS CANADA INC DOES NOT FURNISH WOOD, BOLT TEMPLATES, EMBEDDED ITEMS, ANCHORS OR WOOD FOR SCAFFOLDS AND HANDRAILS AS PART OF THE FORMING OR SHORING QUOTATION. WHERE MATERIAL SUPPLIED IS ON RENTAL, THE LESSEE WILL BE CHARGED FOR REPAIR WORK ON EQUIPMENT THAT IS REGARDED AS BEING DAMAGED BEYOND ORDINARY WEAR AND TEAR. THE COST OF REPAIRING FRAMES MATERIAL WILL BE CHARGED TO THE LESSEE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO USE SAFE PRACTICE IN THE ERECTION, DISMANTLING OR USE OF THE EQUIPMENT. SEE FORMING AND SHORING GENERAL SAFETY RULES AND SYSTEM USER GUIDES.

NOTES:
1. ULMA CONSTRUCTION SYSTEMS CANADA INC. IS NOT RESPONSIBLE FOR THE STABILITY AND STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE BEFORE, DURING AND AFTER CONSTRUCTION.
2. CONTRACTOR NOT TO EXCEED POUR HEIGHTS PRODUCING LATERAL PRESSURE GREATER THAN THE DESIGN PRESSURE STATED.
3. CONTRACTOR TO VERIFY THAT ALL UNUSED TIE HOLES ARE FITTED WITH ADEQUATE PLASTIC PLUGS.
4. CONTRACTOR TO ADEQUATELY BRACE AND WALE ALL UNTIED JOINTS AND UNBALANCED LOADING CONDITIONS TO PREVENT FORM MOVEMENT AND/OR ROTATION DUE TO CONCRETE PRESSURE.
5. ALL SHORING AND FORMING INSTALLATIONS SHALL REQUIRE A LAYOUT, WHICH WILL BE AVAILABLE AND USED ON THE JOBSITE AT ALL TIMES.
6. ADEQUATE SILLS SHALL BE SUPPLIED BY CONTRACTOR, CAPABLE OF CARRYING THE MAXIMUM IMPOSED LOAD WITHOUT SETTLEMENT OR DISPLACEMENT AND POSITIONED IN A MANNER WHICH WILL AVOID OVERTURNING OF THE TOWER OR SILL.
7. WHEN SHORING FROM SOIL, THE CONTRACTORS STRUCTURAL ENGINEER SHALL VERIFY THAT SOILS AND SILLS ARE ADEQUATE TO SUPPORT THE IMPOSED LOADS.
8. ERECTED SHORING EQUIPMENT SHALL BE INSPECTED BY THE CONTRACTOR TO VERIFY THAT IT CONFIRMS TO THE SHORING LAYOUT PRIOR TO POUR. SHORING EQUIPMENT SHALL ALSO INSPECTED DURING POUR AND AFTER POUR, UNTIL CONCRETE IS SET.
9. DO NOT EXCEED THE SHORING TOWER AND/OR POST SHORES SPACING, SCREW LEG EXTENSION OR TOWER HEIGHTS AS SHOWN ON SHORING LAYOUT.
10. ALL SHORING EQUIPMENT SHALL BE PLUMB IN BOTH DIRECTIONS. SHORING IS NOT DESIGNED TO RESIST LATERAL FORCES. CONTRACTOR SHALL STABILIZE WITH ADEQUATE BRACING THE SHORING STRUCTURE AGAINST ALL SUCH FORCES DURING CONSTRUCTION.
11. TOWER MUST BE BRACED FOR STABILITY DURING ERECTION AND DISMANTLING AT FOUR TIMES THE MINIMUM BASE DIMENSION.
12. GUARDRAIL SYSTEMS ARE REQUIRED BY CCOHS AND OTHER GOVERNMENTAL AGENCIES ON THE OPEN SIDES OF FORM WORK DECKS. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, SUPPLY AND INSTALLATION OF THESE GUARDRAIL SYSTEMS TO MEET THE ABOVE REGULATIONS.
13. LOADED SHORING EQUIPMENT SHALL NOT BE RELEASED OR REMOVED UNTIL THE SUPPORTED CONCRETE IS SUFFICIENTLY CURED AND APPROVED BY A QUALIFIED ENGINEER. RELEASE AND REMOVAL OF LOADS FROM SHORING EQUIPMENT SHALL BE SEQUENCED SO THAT THE EQUIPMENT WHICH IS STILL IN PLACE IS NOT OVERLOADED.
14. IMPOSED SHORING LOADS ARE COMPUTED AS APPLIED CONCENTRICALLY TO THEIR SUPPORT MEMBERS, WHETHER FRAME/ TOWER LEGS OR SINGLE POST SHORES.
15. TO PREVENT ECCENTRIC LOADS, STRINGERS MUST BE ALWAYS CENTERED LATERALLY OVER THEIR VERTICAL SUPPORT MEMBERS.
16. ALL RESHORING DESIGN AND PROCEDURES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD ALWAYS BE APPROVED BY THE RESPONSIBLE PROJECT ENGINEER.
17. CONTRACTOR IS RESPONSIBLE TO FASTEN SECURELY ALL JOIST TO STRINGERS AND TO PROPS AS NECESSARY TO PREVENT TIPPING.
18. NO WORKERS SHALL BE ALLOWED TO STEP ON TO THE CANTILEVERED JOIST AREA PRIOR TO ALL JOIST BEING SECURELY FASTENED.
19. ULMA IS STRICTLY A SUPPLIER OF FORMWORK AND SHORING EQUIPMENT. MEANS, METHODS, TECHNIQUES, PROCEDURES OF CONSTRUCTION, COORDINATION OF ITS WORK WITH THAT OF ALL OTHER TRADES, REVIEW OF WHETHER WORK WAS PERFORMED IN A SAFE AND SATISFACTORY MANNER REGARDING ALL FORMWORK/ SHORING EQUIPMENT SUPPLIED BY ULMA IS THE RESPONSIBILITY OF THE CONTRACTOR AND THEIR SKILLED PERSONNEL/ENGINEERS. KNOWLEDGEABLE IN CONCRETE CONSTRUCTION, PERFORMING ALL THE LABOR, INSPECTIONS/OBSERVATIONS AND ASSUMING ALL RESPONSIBILITIES AS THE FORMWORK DESIGNER.

REVISIONS			
NO.	DATE	DETAILS	BY:

CUSTOMER:	RISE FORMING LTD.
PROJECT:	PROPOSED RESIDENTIAL DEVELOPMENT
ADDRESS:	689 THE QUEENSWAY
TITLE:	STAIR CORES @ P1 & GROUND - ORMA SYSTEM

ULMA CONSTRUCTION SYSTEMS CANADA
540 JAMIESON PARKWAY, UNIT-6
CAMBRIDGE, ONTARIO N3C 0G5
P: (519)658-5656/ Toll Free: 1 844-343-5656

DRAWN:	JOB NO.:	DATE:	SHEET NO.
AM	K152530	08/16/22	F05
CHK'D:	DWG. STATUS:		
EZ	PRELIMINARY		