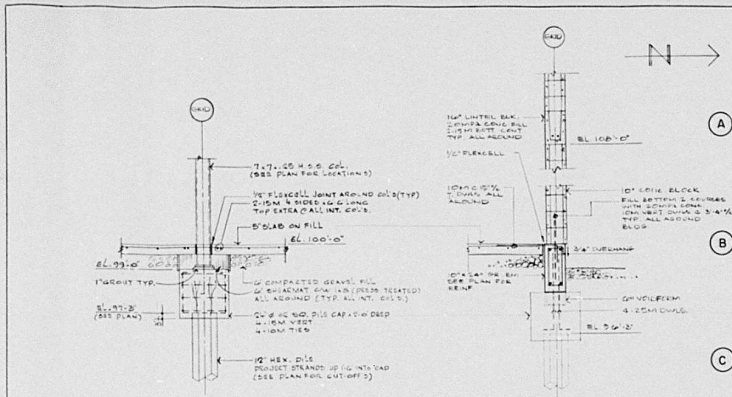

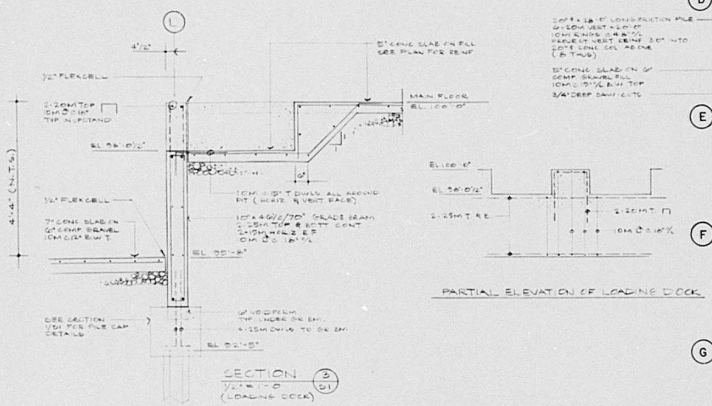

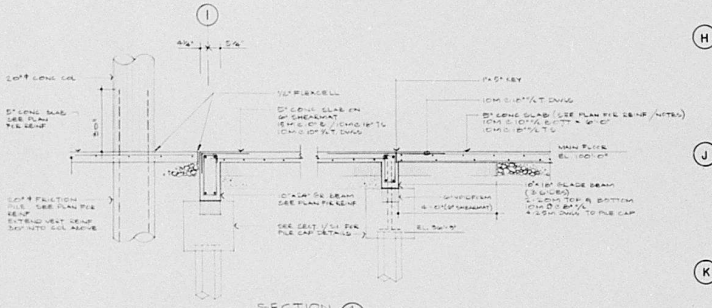

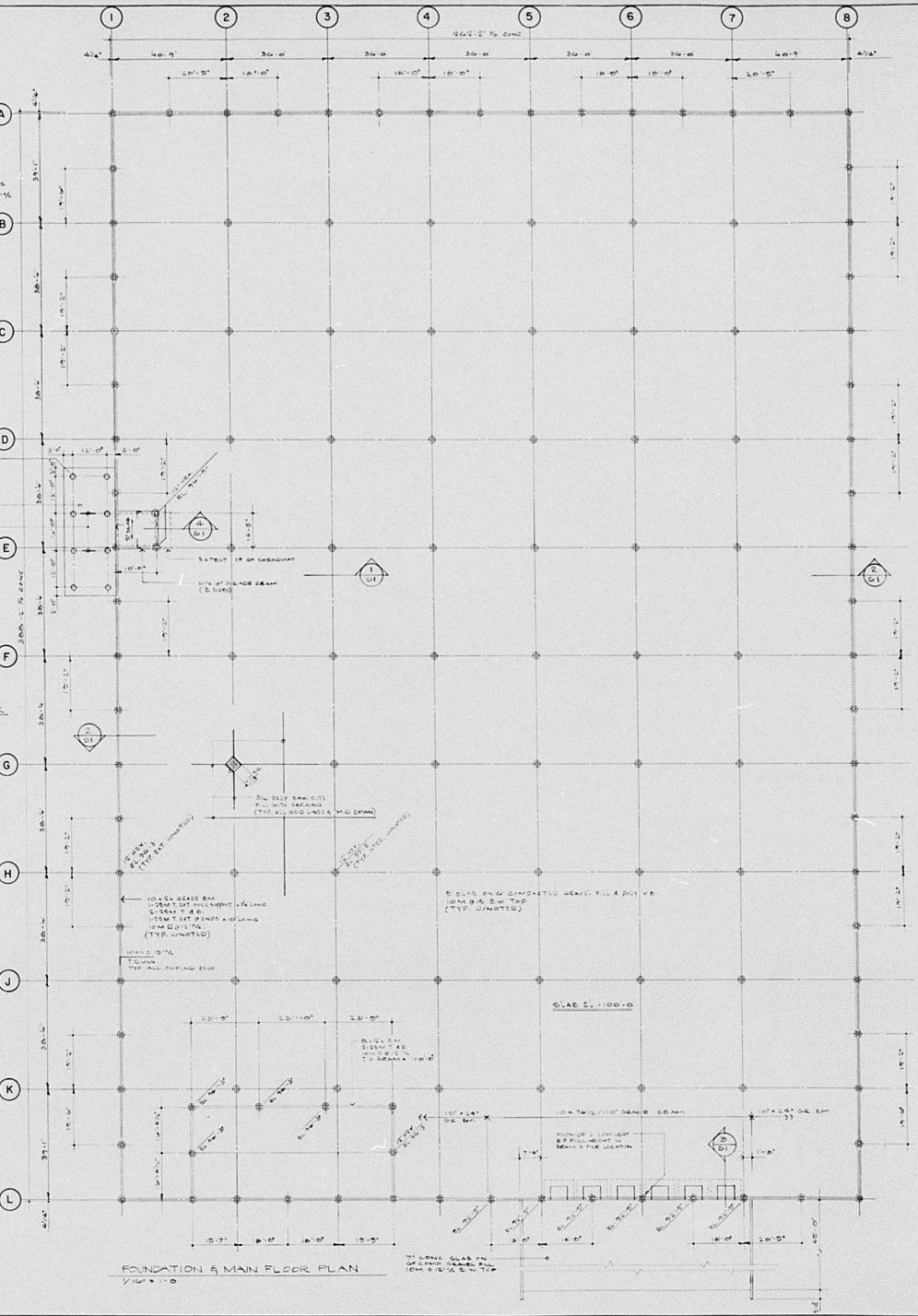

GENERAL NOTES

1. DO NOT SCALE DRAWINGS.
2. ALL DIMENSIONS ARE TO BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
3. IT IS THE CONTRACTOR'S TO VERIFY THE LOCATION AND WEIGHTS OF ALL MECHANICAL EQUIPMENT LOCATED IN THE STRUCTURE, AND NOTE AND REPORT ANY ERRORS AND OMISSIONS TO THE ENGINEER PRIOR TO CONSTRUCTION.

FOUNDATIONS

1. SOIL LOAD USED FOR THE INFORMATION OF THE FOUNDATION CONTRACTOR, HE SHALL SATISFY HIMSELF AS TO THE PREVAILING CONDITIONS AT THE SITE AS NO EXTRAS SHALL BE GRANTED SHOULD CONDITIONS DIFFER FROM THOSE INDICATED.
2. PILE LENGTHS SHOWN ON PLAN ARE APPROXIMATE ONLY. THE ACTUAL TOTAL EFFECTIVE LENGTH OF FRICTION PILES IS TOTAL LENGTH AS SHOWN ON PLAN MINUS 10'-0". FOR EXTERIOR PILES SEE NOTES 5 - 6. FOR INTERIOR PILES.
3. ALL PILES TO BE DRIVEN TO WORKING LOAD CAPACITY AS NOTED ON DRG. S-1. EXTEND VERTICAL PILE REINFORCING 1'-6" BELOW CUT-OFF.
4. ALL PILES TO BE PRECAST CONCRETE HERINGBONE PILES. SIZES AS NOTED ON PLAN. PILES TO BE DRIVEN TO WORKING LOAD CAPACITY AS SHOWN BELOW:

   8½" - 12 TON MIN. - 16 TONS
   10½" - 16 TON MIN. - 24 TONS SAFETY FACTOR - 2.0
   12½" - 24 TON MIN. - 36 TONS
5. DRIVING OF PILES SHALL BE COMPLETED BEFORE ANY FRICTION OR BELLED PILING OPERATION COMMENCES.

CAST-IN-PLACE CONCRETE

1. CONCRETE

1.1 ALL CONCRETE IS TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF CSA A23.1 AND CSA A23.2.
1.2 UNLESS NOTED OTHERWISE ON PLAN, SHALL BE AS FOLLOW UNLESS NOTED OTHERWISE ON THE DRAWINGS:

PILES:	TYPE 50 CEMENT; WATER-CEMENT RATIO 0.45; SLUMP MIN. 100MM; AGGREGATE MAX. 40MM; ENTRAINED AIR 5-7%
PRECAST DRIVEN PILES:	25MPA; TYPE 50 CEMENT; AIR ENTRAINED TO SUIT MANUFACTURER'S REQUIREMENTS.
PILE CAPS:	TO MATCH PILES
WALLS, GRADE BEAMS: AND COLUMNS	25MPA; SLUMP MIN. 100MM; AGGREGATE MAX. 20MM; ENTRAINED AIR 5-8%
STRUCTURAL SLABS:	25MPA; SLUMP MIN. 100MM; AGGREGATE MAX. 20MM; ENTRAINED AIR 5%
SLABS ON FILL:	25MPA; SLUMP MIN. 75MM; AGGREGATE MAX. 20MM; ENTRAINED AIR 5%
MASONRY FILL:	20MPA; SLUMP MAX. 200MM; AGGREGATE MAX. 20MM;

1.3 AIR ENTRAINING ADMIXTURES SHALL CONFORM TO THE REQUIREMENTS OF CSA A266.4.

2. REINFORCING STEEL

2.1 ALL REINFORCING STEEL TO BE CSA G30.12-M - 400 MPA DEFORMED BARS EXCEPT WELDED WIRE FABRIC SHALL BE 400 MPA LARGE STEEL. ALL REINFORCING TO BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE RCI DETAILING MANUAL, EXCEPT OTHERWISE NOTED.
2.2 REINFORCING STEEL COVER TO BE CONFORM TO THE LATEST EDITION OF CSA A23.3-M 84 AS FOLLOWS:

WALLS:	2 IN.
COLUMNS:	1 1/2 IN.
SLABS:	1 IN.
GRADE BEAMS:	2 IN.

2.3 IN WALLS, SEND HORIZONTAL STEEL 12" TO BRACED CORNERS, OR USE EXTRA BARS AS SHOWN ON PLAN. ALL WALLS TO HAVE VERTICAL REINFORCING EACH SIDE AND 2-25M BARS, EXCEPT AS NOTED. A MINIMUM OF 12 IN. DEEP CONCRETE BEAM TO BE OVER ALL OPENINGS 5'-0" OR GREATER SPAN, BOTTOM STEEL TO BE BUTTED BY SUPPORTS.
2.4 ALL REINFORCING TO BE HELD IN PLACE, AND TIED BY THE USE OF PROPER SPACERS, CHAIRS, AND TIE WIRES AS PER CSA A23.1-M 84. ALL DETAILING OF THE REINFORCING STEEL, FABRICATION, ALLOWANCE TO LAPS AND TIES TO BE STAPLED OR WELDED TO THE FORMWORK.
2.5 ALL REINFORCING STEEL AND CONCRETE TO BE TRIMMED WITH 2-15M ALL AROUND OPENINGS, EXCEPT AS NOTED.
2.6 FOR ALL STRUCTURAL SLABS A MINIMUM OF 50% OF THE BOTTOM STEEL SHALL BE CONTINUOUS OVER SUPPORTS AND SHALL BE LAPPED AT MIDSPAN AS PER CSA A23.3-M 84. IF LESS THAN 50% OF STEEL BETWEEN SLABS AND WALLS, BOTTOM SLABS EXTEND TO BOTTOM REINFORCEMENT OR 150 MM (6 IN.) O/C, SHALL BE PROVIDED WHICH EVER IS GREATER.

3. FORMWORK

3.1 A 5 IN. SHEARMAT SHALL BE USED AS THE BOTTOM FORM FOR STRUCTURAL SLABS AT GRADE. ACCESSORIES SUCH AS KO-CHAIRS, SPACERS, ETC. SHALL BE SUPPORTED BY PADS OF POLYTHENE OR TEMPERED HARDBOARD TO PREVENT PUNCTURING THE SHEARMAT. A 12 IN. SHEARMAT UNDER ALL GRADE BEAMS IN EXCAVATED AREAS.
3.2 SLOT JOINT ALL PAVING OR CONCRETE SLABS ON GRADE ADJACENT STRUCTURAL MEMBERS WITH 1/2 IN. NOMINAL IMPREGNATED FIBREBOARD.
3.3 ALL CONCRETE BEAMS FRAMING INTO CONCRETE WALLS TO BE 1 1/2 IN. DEEP.
3.4 ALL CONCRETE BEAMS FRAMING INTO CONCRETE WALLS ARE TO BE SUPPORTED BY A CORBEL OF MINIMUM 6 IN. DEPTH AND THE WIDTH AND WIDTH OF THE BEAM.
3.5 ALL CONCRETE WALLS TO BE 10 IN. THICK, U.N.O.
3.6 ALL MISCELLANEOUS CONCRETE PADS NOT SUPPORTED ON PILES TO BE REINFORCED WITH 6" MINIMUM OF 6 MM AT 12 IN. O/C EACH WAY, UNLESS NOTED.
3.7 ALL CONCRETE COLUMNS TO BE TIED WITH TIES OF SAME SIZE AND NUMBER AND AS SHOWN REINFORCING AND TO BE PROVIDED FROM WALL UNLESS OTHERWISE SHOWN ON PLAN.

ISSUED FOR PERMITS		9 DEC 1982
REVISION	DR	DATE

NUMBER TEN ARCHITECTURAL GROUP
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