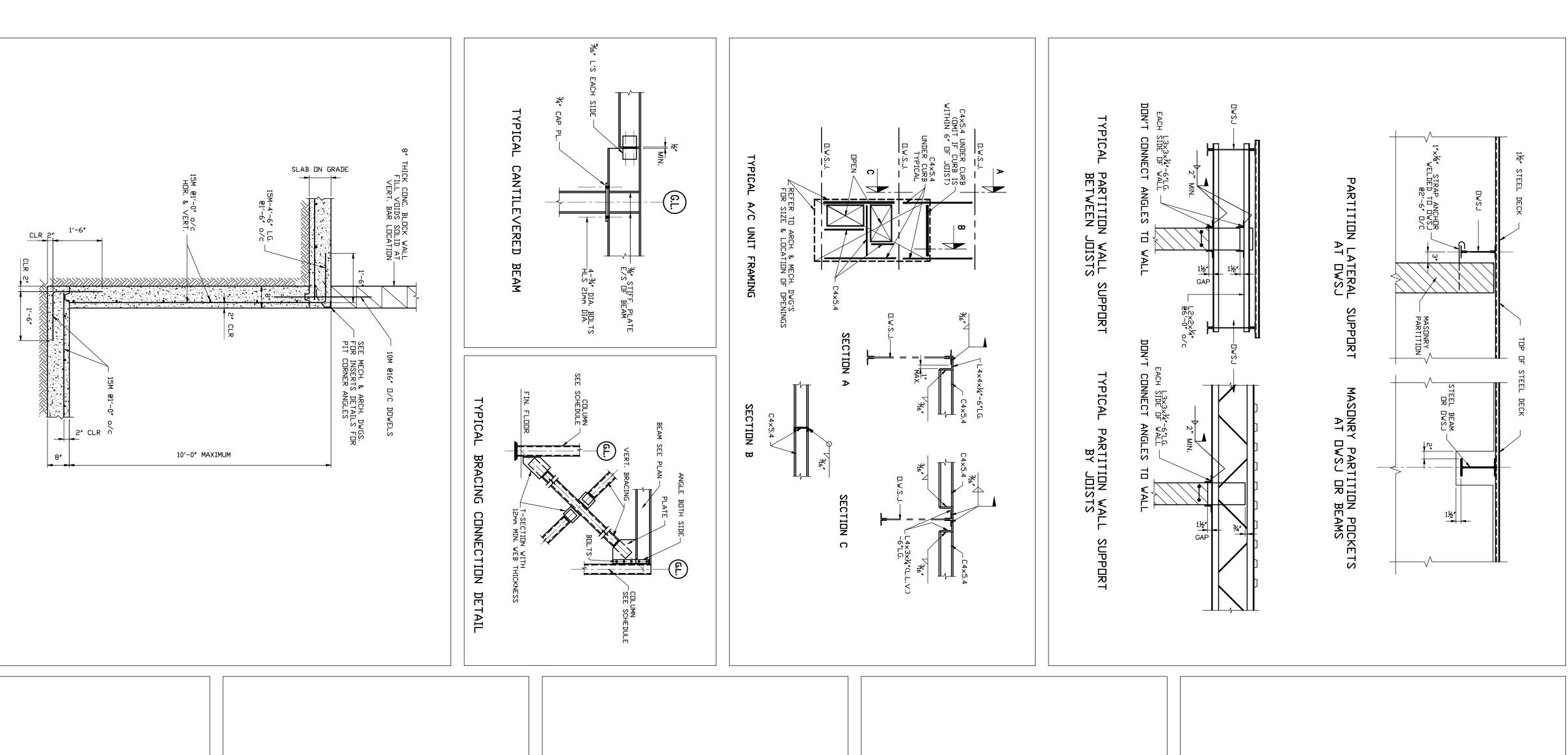
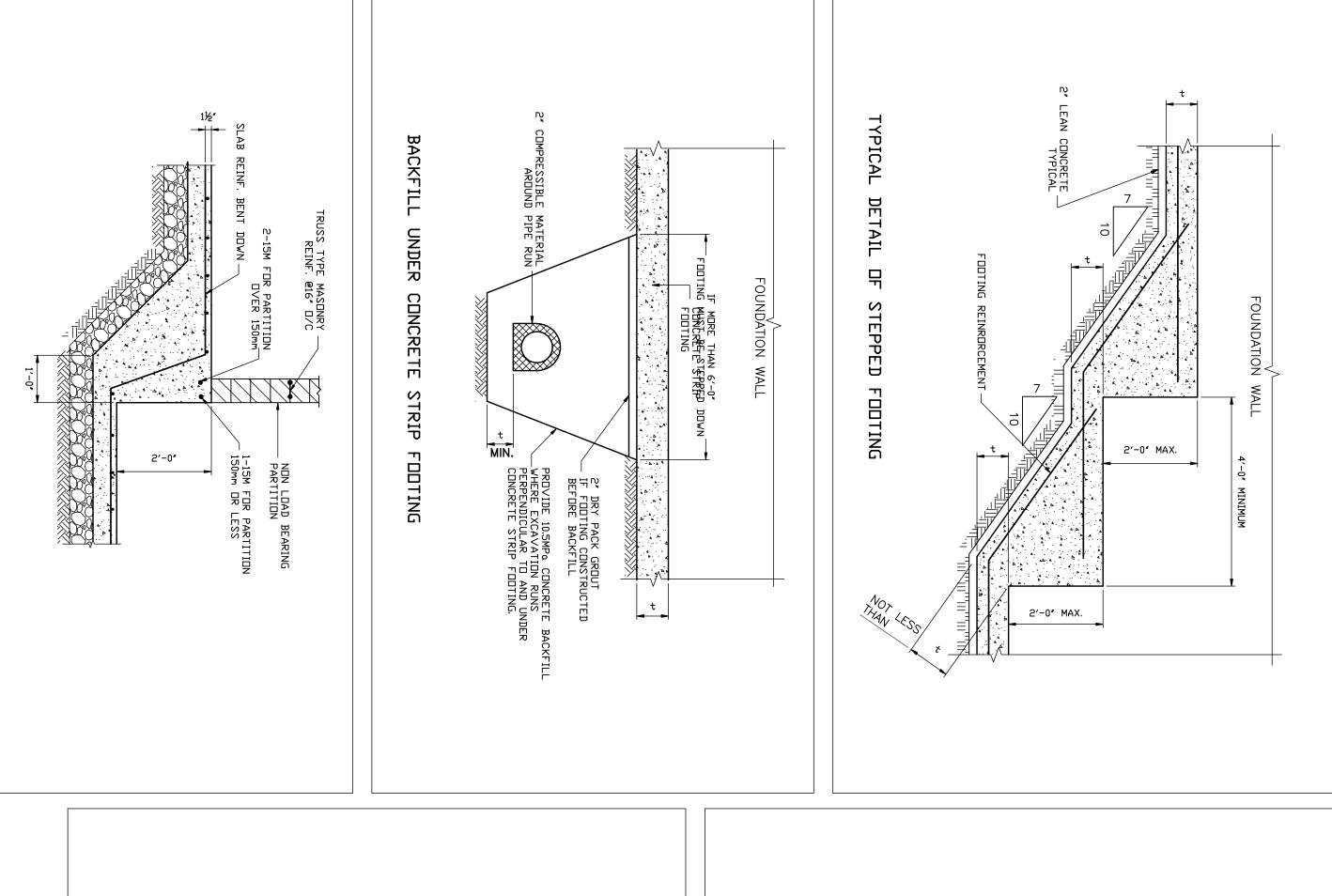
YPICAL

DETAIL



FOR STEP

TRUSS TYPE MASONRY REINF. 16" D/C TYP. +10M400D/C VERT.



TYPICAL

DETAIL FOR PARAPET H < 2'-6"

2-No 10-16 TECKS SCREWS
AT EVERY SECOND FLUTE

C6x18GA @16" D/C STEEL STUDS (MIN.)

DETAIL FOR H < 2'-6"

C6x16GA CONT. BOTT. TRACK

NO 10-16 TECKS SCREWS

AT EVERY STUD

8"x20GA CONT. PLATE

C/W NO 10-16 TECKS SCREWS

@16" D/C INTO EVERY FLUTE

ng code - National Building Code 2005.

Insions and details given on Structural Drawings must ked with the Architect's Drawings and any inconsistency reported to the Structural Engineer before proceeding work.

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS PROVIDED BY AND IS THE PROPERTY OF LEONARD KALISHENKO & ASSOCIATES.

THE CONTRACTOR MUST VERIFY AND ACCEPT RESPONSIBILITY FOR ALL DIMENSIONS AND CONDITIONS ON SITE AND MUST NOTIFY LEONARD KALISHENKO AND ASSOCIATES OF ANY VARIATIONS FROM THE SUPPLIED INFORMATION.

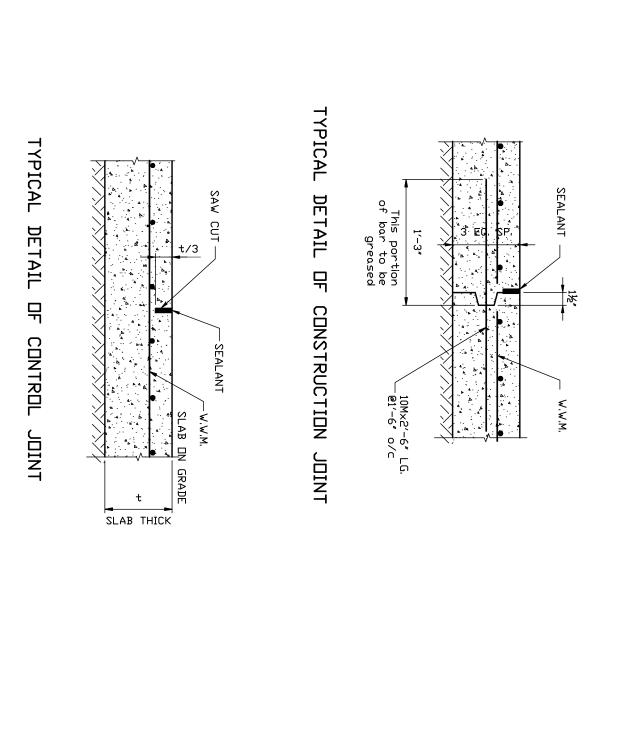
THIS DRAWING IS NOT TO BE SCALED.

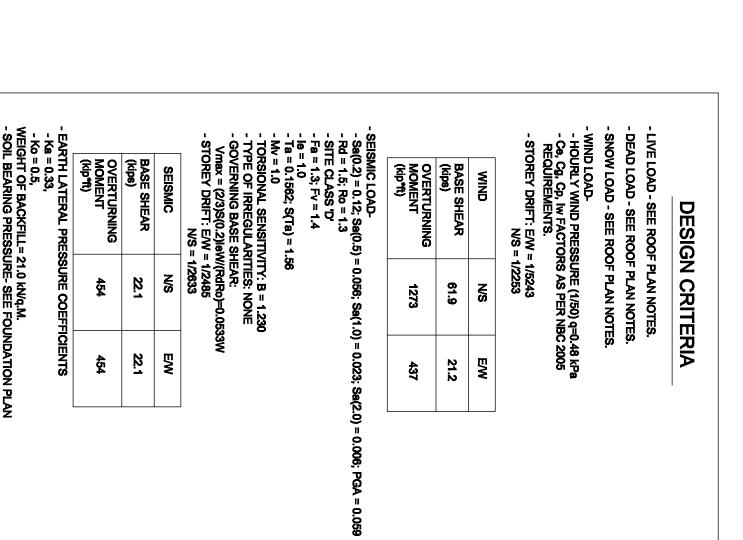
THE ENGINEER IS NOT RESPONSIBLE FOR THE ACCURACY OF SURVEY, ARCHITECTURAL, MECHANICAL, ELECTRICAL ETC. INFORMATION SHOWN ON THIS DRAWING.

REFER TO THE APPROPRIATE CONSULTANT'S DRAWINGS BEFORE PROCEEDING WITH THE WORK.

CONSTRUCTION MUST CONFORM TO ALL APPLICABLE CODES AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.

THE CONTRACTOR WORKING FROM DRAWINGS NOT SPECIFICALLY MARKED "FOR CONSTRUCTION" MUST ASSUME FULL RESPONSIBILITY AND BEAR COSTS FOR ANY CORRECTIONS OR DAMAGES RESULTING FROM HIS WORK.





TYPICAL DETAIL OF SLAB THICKENING UNDER NON-BEARING WALL 8" OR LESS

DRCING F	OR ANY WA	ORCING FOR ANY WALL U/N TO BE	BE AS FOLLOWS:	□WS:	
150	175	200	250	300	350
@440 CL	10@300 CL	10@460 EF	10@460 EF	10@460 EF 10@440 EF 10@380 EF	10@380 EF
≥360 CL	@360 CL 10@300 CL	10@460 EF 10@400 EF 10@360 EF 10@280 EF	10@400 EF	10@360 EF	10@280 EF

grade on all structural elements framed ir earth, must be in place before backfilling, wall conditions backfill each side of wall si

tural, Architectural and Mechanical Drawings.

Drm all holes, chases etc. and to set inserts, oedded members which are required to be held efore pouring the concrete.

Tall and Mechanical Drawings.

I and slabs on earth and concrete members exposed to weather, shall be supported in designated position rete supports or equivalent.

o case be less than 25 MPa (U/N) after 28 days?A Specifications CAN/CSA-A23.3-04. eformed bars to conform to CSA G30.12-M1977 otherwise noted on plan. rmed bars to conform to CSA G30.12 with minimum

LINTELS	LINTELS IN NON-LOADBEARING BLOCK WALLS	3 BLOCK WALLS		
CL.OPENING THICK.	∑⊼. 4″	8″	10″	12″
4'-0" OR LESS	1L3 1/2×3 1/2×1/4	2L3 1/2×3 1/2×1/4	4'-0" OR LESS 1L3 1/2x3 1/2x1/4 2L3 1/2x3 1/2x1/4 1L3 1/2x3 1/2x1/4 3L3 1/2x3 1/2x1/4 1L5x3 1/2x1/4(SLV)	3L3 1/2×3 1/2×1/4
5′-0″	1L3 1/2×4×1/4	2L3 1/2×4×1/4	1L3 1/2×4×1/4 1L5×3 1/2×1/4(SLV)	3L3 1/2×4×1/4
6′-0″	1L3 1/2×5×1/4	2L3 1/2×5×1/4	1L3 1/2×5×1/4 1L5×5×5/16	3L3 1/2×5×1/4
7′-0″	1L3 1/2x5x5/16	2L3 1/2x5x5/16	1L3 1/2×5×5/16 1L5×5×5/16	3L3 1/2×5×5/16

NOTES

1. All long leg angles to be placed
2. Minimum bearing each end = 6".
3. All back to back angles to be k

10-1856

owing Nr.

TYPICAL

DETAILS

FAITHFULL AVENUE

TEL.(416) 665-7165 FAX.(416) 665-4259

Leonard Kalishenko & Associates Limited structural engineers

7/ 0″ 1L3 1/2×5×5/16 2L3 1/2×5×5/16 1L3 1/2×5×5/16	6'-0" 1L3 1/2x5x1/4 2L3 1/2x5x1/4 1L3 1/2x5x1/4 1L5x5x5/16	5'-0" 1L3 1/2×4×1/4 2L3 1/2×4×1/4 1L3 1/2×4×1/4 1L5×3 1/2×1/4(SLV	" OR LESS 1L3 1/2x3 1/2x1/4 2L3 1/2x3 1/2x1/4 1L3 1/2x3 1/2x1/4 1L5x3 1/2x1/4(SLV	WALL THICK. 4" 8" 10"	LINTELS IN NON-LOADBEARING BLOCK WALLS	
	1L3 1/2×5×1/4 1L5×5×5/16	1L3 1/2×4×1/4 1L5×3 1/2×1/4(SLV)	1/4 1L3 1/2×3 1/2×1/4 1L5×3 1/2×1/4(SLV)	10"		
3L3 1/2x5x5/16	3L3 1/2×5×1/4	3L3 1/2×4×1/4	3L3 1/2×3 1/2×1/4	12"		

EXAMINE DRAINAGE INVERTS PRIOR TO CONSTRUCTION OF FOOTIN FOOTINGS IN THE VICINITY OF DRAINS ETC. SHALL BE LOWERED TO SUIT MAX. SLOPE OF 7 IN 10.

EVATIONS OF

LINTELS	LINTELS IN NON-LOADBEARING BLOCK WALLS	BLOCK WALLS		
WALL THICK.	K. 4″	8″	10″	12"
" OR LESS	" OR LESS 113 1/2x3 1/2x1/4 2L3 1/2x3 1/2x1/4 1L3 1/2x3 1/2x1/4 1L5x3 1/2x1/4	2L3 1/2×3 1/2×1/4	1L3 1/2×3 1/2×1/4 1L5×3 1/2×1/4(SLV)	3L3 1/2×3 1/2×1/4
5'-0"	1L3 1/2×4×1/4	2L3 1/2×4×1/4	1L3 1/2×4×1/4 1L5×3 1/2×1/4(SLV)	3L3 1/2×4×1/4
6'-0"	1L3 1/2×5×1/4	2L3 1/2×5×1/4	1L3 1/2×5×1/4 1L5×5×5/16	3L3 1/2×5×1/4
7′-0″	1L3 1/2×5×5/16	2L3 1/2x5x5/16	1L3 1/2×5×5/16 1L5×5×5/16	3L3 1/2x5x5/16

.56	= 0.056; Sa(1.0) = 0.023; Sa(2.0) = 0.006; PGA = 0.059	1273 437		N/S E/W	= 1/5243 = 1/2253	SURE (1/50) q=0.48 kPa RS AS PER NBC 2005	OF PLAN NOTES.	F PLAN NOTES.	N CRITERIA																												
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36*	erse weld spacing 12" o/c. p button punching 24" o/c.	All roof decks to be 1½"x22GA L.Z.C. deck, continuous over 3 supports minimum unless noted otherwise on plan. Minimum thickness to be 0.030" (22GA) unless noted otherwise on drawings.	action as per steel deck suppliers design. Side joints shall be mechanically clinched together @ 2'-0" maximum. Connect steel deck to supporting steel for shear value as shown on the dra	Weld steel deck to joists, beams with $34^{\prime\prime}$ dia. fusion welds for diaphragm	Allow for reinforcing at all opening up to 12" diameter as per Architect's and Mechanical Drawings.	All fabrication and design confirm to CSA S136-1974 and to CSB B1 Standard Specification.	STEEL DECK	Compressive strength of concrete blocks shall be 15 MPa minimum, based on net cross-sectional area.	Hollow concrete block masonry with mortar type "M" or ": minimum ultimate compressive strength of 9.8 MPa – f'm.	Solid concrete block masonry with mortar type "M" or ultimate compressive strength of 7.5 MPa – f'm.	Mortar shall be type "S" with a minimum compressive strength of a 9.5 MPa based on a net cross-sectional area.	Provide 3 courses of solid brick masonry under all bearing plates bearing on masonry for a distance of not less than 8" past bearing plate on each si	Concrete and steel beams bearing on masonry walls shall have a minimum bearing of 8" unless otherwise noted on Plan.	Provide lintels over all openings and recesses for mechanical and electrical trades as specified on Plans. See Architectural and Mechanical drawings for locations and sizes of openings and recesses.	Provide all enclosures, heating and undertake methods of laying masonry in cold weather, in accordance with CSA Standard A224.	All solid masonry shall be laid with full head and bed joints,	Masonry walls shall be adequately braced to resist wind pressure.	For bonding brick and block use heavy duty truss type reinforcing or equivalent @ 8" vertically, maximum completely embedded in mortar.	All intersecting masonry walls to have masonry bond or heavy duty (block-lock) or equivalent at $8^\prime\prime$ vertically maximum.	All available bearing areas of masonry units shall be fully covered with mortar, spreaded in an even layer and vertical joints shall be filled solidly with mortar.	MASONRY	All welds shall conform to CSA Standards W59.	All field bolts shall be ASTM A325 high strength bolts, Anchor bolts to be ASTM A307.	All joists to be designed for loads shown on structural drawings.	All bridging shall be completely installed before any construction loads are placed on joists.	Do not put holes in top flanges of beams, where they cantilever over columns.	Shop details and connection calculations, bearing stamp of a registered Professional Engineer, to be submitted to the Design Engineer for review and approval before proceeding with the fabrication as requested	Provide ceiling extension for joists where required by Architects.	Do not connect any structural members, piping or equipment to chords of jois between panel points unless chords have been designed for extra stress or additional diagonal has been inserted at the point of connection.	Minimum bearing for joists to be 2½" on steel beams and 4" on masonry or concrete,	Joists design details, calculations and shop drawings, including welding details and cambers, etc. stamped and signed by a P. Engineer of Saskatchewan, to be submitted to design Engineer for review and approval.	Joists material and construction shall conform to current edition of The National Building Code.	All structural steel Shop Drawings to be submitted to the Structural Engineer for review and approval before proceeding with work.	Provide adjustable anchors @ $1'-4''$ max, vertically for all columns in contact and adjacent with masonry.	wall anchors for ends of all beams bearing on masoni	Provide holes where required for the attachement of other materials.	Steel beams bearing on masonry walls shall have min, bearing of 8" unless otherwise noted on Plan,

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A DE PROVINCIA PLANT				
type reinforcing edded in mortar.				
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mechanical and electrical				
shall have a minimum				