



1
A-1 PARTIAL FLOOR PLAN
Scale: 1:100

LEGEND:

- SLAB DELAMINATION AND REPAIR, WITH APPROX. FOOTPRINT IN METERS.
- CRACK IN SLAB (MOST ARE FILLED WITH SEALANT)

NOTE: CRACKS IN BLOCK WALLS ARE IN THE HORIZONTAL MORTAR JOINTS, AT BOTTOM OF WALLS.

GENERAL STRUCTURAL NOTES

1. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS.
2. CHECK AND VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS BEFORE COMMENCING WITH WORK. NOTIFY PROTOSTATIX ENGINEERING CONSULTANTS (P.E.C.) SUPPORT OF ANY DISCREPANCIES, ERRORS OR OMISSIONS.
3. DRAWINGS SHOW COMPLETED STRUCTURE ONLY. TEMPORARY SUPPORT AND BRACING FOR CONSTRUCTION LOADING CONDITIONS IS THE RESPONSIBILITY OF THE CONTRACTOR.
4. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION".
5. READ THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.

SITE REVIEW

1. NOTIFY THE ENGINEER 72 HOURS IN ADVANCE FOR REVIEW OF THE FOLLOWING:
CONCRETE REINFORCEMENT BEFORE EACH POUR

P.E.C. PROVIDES FIELD REVIEW ONLY FOR THE WORK SHOWN ON THESE STRUCTURAL DRAWINGS. THIS REVIEW IS NOT A "FULL-TIME" REVIEW BUT IS A PERIODIC REVIEW AT THE SOLE DISCRETION OF P.E.C. IN ORDER TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE PLANS AND SUPPORTING DOCUMENTS PREPARED BY P.E.C. FIELD REVIEW BY P.E.C. IS NOT CARRIED OUT FOR THE CONTRACTOR'S BENEFIT. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO BUILD THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. P.E.C. SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

P.E.C. WILL REVIEW SHOP DRAWINGS PERTAINING TO WORK SHOWN ON P.E.C.'S DRAWINGS. THE EXTENT OF THIS REVIEW IS AT THE SOLE DISCRETION OF P.E.C.'S ENGINEER AND IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMANCE WITH THE STRUCTURAL DESIGN CONCEPT. THE REVIEW IS NOT AN APPROVAL OF THE DESIGN, DETAILS AND DIMENSIONS INHERENT IN THE DESIGNS SUBMITTED BY OTHERS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWINGS OR FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.

REPAIR OF BLOCK WALL CRACK NOTES

1. CRACKS IN MORTAR JOINTS OF BLOCK WALLS SHOULD BE ROUTED AND RE-POINTED WITH MORTAR. THIS SHALL BE CARRIED OUT AFTER ALL SLAB REPAIR IS COMPLETED.
2. THE CONTRACTOR AND CONSULTANT SHALL JOINTLY INSPECT THE EXISTING FLEXIBLE SEALANT IN THE LONGITUDINAL CRACKS IN THE SLAB. REPLACE THE SEALANT AS DEEMED NECESSARY USING NEOGARD 70991 OR 70995 SEALANT. STRIP EXISTING SEALANT V-NOTCH GROOVE IN THE CRACK WITH DIAMOND GRINDER, CLEAN AND APPLY THE SEALANT. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS.
3. FOR NEW CRACKS, USE THE SAME PRODUCT AS IN ITEM 2.

REPAIR OF DELAMINATED CONCRETE NOTES

1. DO A CHAIN DRAG OVER THE DELAMINATED AREA AND MARK THE FOOTPRINT WITH SPRAY PAINT. TASK TO BE CARRIED OUT JOINTLY BETWEEN THE CONTRACTOR AND CONSULTANT.
2. REMOVE THE DELAMINATED AND CLEAN THE CONCRETE SURFACE BY SAND BLASTING.
3. CLEAN THE RUST FROM ALL EXPOSED REINFORCING STEEL, WHERE THE SECTIONAL AREA OF THE STEEL BAR HAS DECREASED BY MORE THAN 20%. CUT THE BAR AND RE-SPLICE WITH A NEW, SAME SIZE BAR HAVING THE PROPER TENSION LAP.
4. THE PREPARED CONCRETE SURFACE MUST BE THOROUGHLY WETTED DOWN FOR A PERIOD OF NO LESS THAN 24 HOURS PRIOR TO CONCRETE PLACEMENT. PONDING OR STANDING WATER SHALL NOT BE PERMITTED.
5. RE-POUR THE AFFECTED AREA WITH 35MPa CONCRETE HAVING 5 TO 8% AIR-ENTRAINMENT AND A CORROSION INHIBITOR.

TRAFFIC COAT

1. FOLLOWING ALL REPAIR, APPLY A TRAFFIC COAT/WATER PROOFING MEMBRANE IN EACH OF GARAGE BAY TO BE DESIGNATED BY THE CONSULTANT, USING A FLUID APPLIED MEMBRANE COATING. ACCEPTABLE PRODUCT WOULD BE SIKAFLOOR DUOICHEM 6001 OR APPROVED EQUAL. REFER TO THE SPECIFICATIONS FOR DETAILS.
2. THE MEMBRANE SHALL CONSIST OF TWO-COAT APPLICATION SYSTEM, WITH SILICA SAND AGGREGATE IN ROOMS WITH VEHICLE TRAFFIC.
3. CONCRETE MUST BE OF MINIMUM AGE AS SPECIFIED BY THE MANUFACTURER PRIOR TO APPLICATION OF THE MEMBRANE. PREPARE CONCRETE SURFACES AS PER THE MANUFACTURER'S RECOMMENDATIONS.
4. SUBMIT SAMPLES OF THE SPECIFIED COATING WITH THE FINAL FINISHED COLOR AND TEXTURE.
5. SUBMIT COPY OF THE MANUFACTURER'S STANDARD GUARANTEE.
6. TRAFFIC COAT SHALL BE APPLIED BY A CONTRACTOR CERTIFIED BY SIKA.
7. APPLY 100mm RESILIENT BASE BOARDS AT THE PERIMETER OF EACH GARAGE BAY.

6. ALL THE REPAIRED AREAS SHOULD BE PAID ON SQUARE METER BASIS, BASED ON A PRE-DETERMINED UNIT COST.
7. DURING THE REPAIR, THE BASEMENT DIRECTLY BELOW SHALL BE CLOSED TO ALL TRAFFIC. SHORE SLAB AT MIDSPAN AS DEEMED NECESSARY.
8. CURING SHALL ONLY CONSIST OF COVERING THE CONCRETE WITH AN ABSORPTIVE MAT OR FABRIC KEPT CONTINUOUSLY WET FOR 7 DAYS. THE USE OF CHEMICAL CURING WILL NOT BE PERMITTED.
9. TENSION LAP SPLICES:
FOR 10M BARS ——— 450mm
FOR 15M BARS ——— 570mm
FOR 20M BARS ——— 690mm

- Notes:**
- Do not scale drawing
 - It is the responsibility of the appropriate Contractor to check and dimensions on site and report all errors and/or omissions to the A or Engineer
 - It is the responsibility of the appropriate Contractor to comply with and Regulations applicable to the performance of their work.
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 - All dimensions are in mm unless noted otherwise.

Issues/Revisions			
No.	Description	Date	By
1	Issued for Tender	Sept. 29, 14	
2	Re-Issued for tender	Oct. 06, 14	

Seal

Client
GOVERNMENT OF CANADA BUILDING RED DEER, ALBERTA

Project
GOVERNMENT BUILDING GARAGE BAY REMEDIATION

Scale	1:100	Designed By	LC
Project No.	14-3867	Drawn By	LM
Date	2014 SEPT 10	Checked By	LC

Drawing Title
PARTIAL FLOOR PLAN