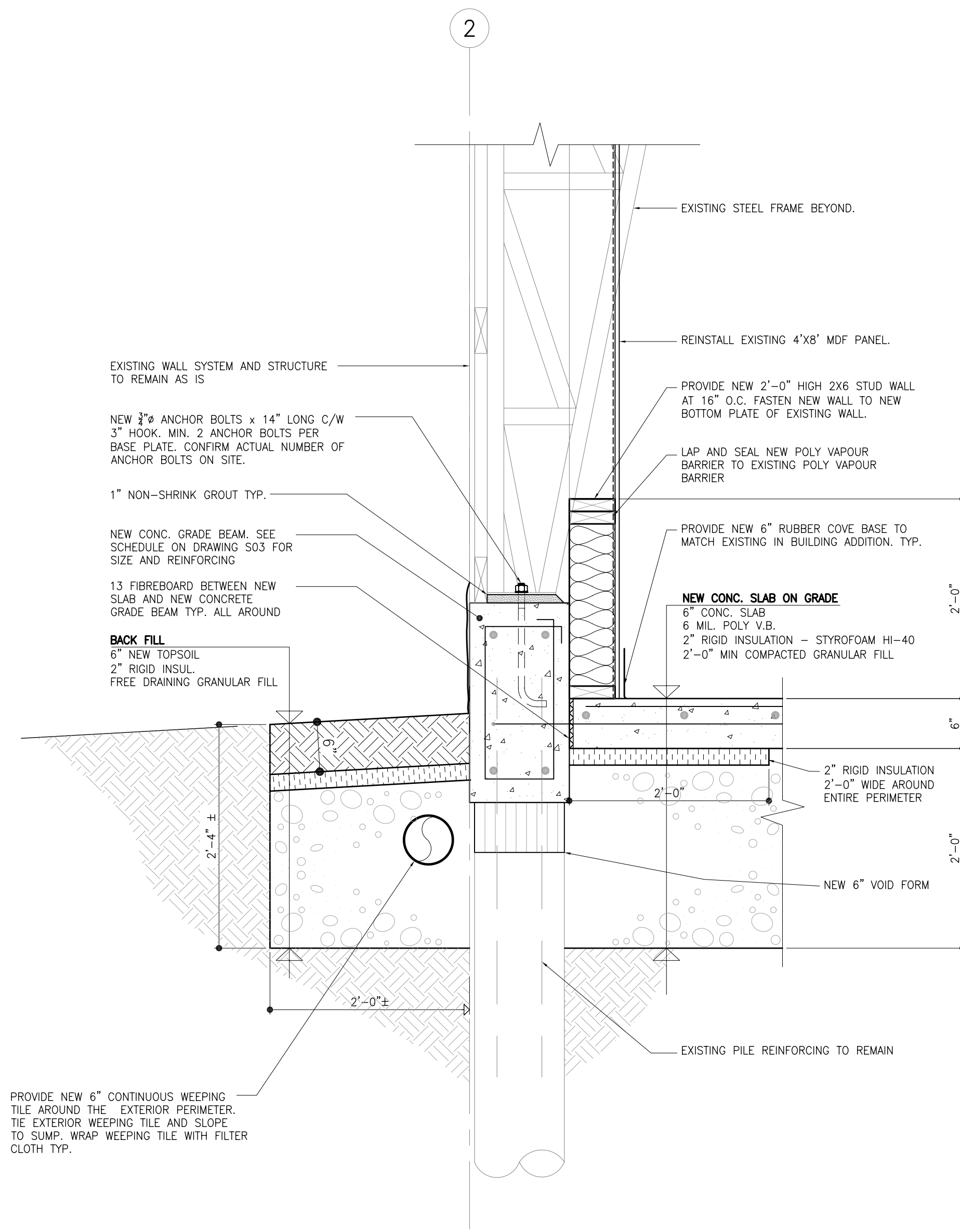


1 FOUNDATION SECTION - DEMOLITION
S04 1" = 1'-0"



2 FOUNDATION SECTION - NEW CONSTRUCTION
S04 1" = 1'-0"

DRAWING NOTES

GENERAL

- DO NOT SCALE DRAWINGS.
- VERIFY ALL DIMENSIONS SHOWN PRIOR TO COMMENCING CONSTRUCTION.
- VERIFY WEIGHT AND LOCATION OF ALL EQUIPMENT ON STRUCTURE AND REPORT ANY DISCREPANCIES TO CONTRACT ADMINISTRATOR PRIOR TO CONSTRUCTION.
- LOCATE UNDERGROUND SERVICES AND PROTECT THEM AT ALL TIMES DURING CONSTRUCTION.
- STRUCTURAL DRAWINGS SHOWING THE COMPLETED STRUCTURE DO NOT INDICATE COMPONENTS WHICH MAY BE NECESSARY FOR SAFETY DURING CONSTRUCTION.

SELECTIVE DEMOLITION

- REMOVE ITEMS AND MATERIALS WHERE SHOWN ON DRAWINGS. REMOVE ONLY MATERIALS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
- TEMPORARILY SUPPORT THE STRUCTURE BEFORE COMMENCING DEMOLITION. TEMPORARY SUPPORTS TO BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA. PROVIDE TEMPORARY SHORING DRAWINGS TO THE CONTRACT ADMINISTRATOR FOR REVIEW BEFORE ORDERING SHORING MATERIALS.
- PROTECT WORK TO REMAIN.
- PROVIDE PROTECTION TO PERSONNEL WORKING IN ADJACENT AREAS, AND TO THE PUBLIC.
- PROVIDE INSULATED, DUSTPROOF TEMPORARY HOARDING TO THE ENTRANCE BETWEEN THE EXISTING HALL AND THE BUILDING ADDITION OVER THE COURSE OF THE CONSTRUCTION. THE BUILDING ADDITION TO REMAIN ACCESSIBLE AND IN FULL OPERATION DURING THE COURSE OF THE CONSTRUCTION.
- CAP OFF AND MAKE SAFE MECHANICAL AND ELECTRICAL SERVICES AS REQUIRED.
- STORE AND PROTECT MATERIALS AND ITEMS TO BE INSTALLED IN RENOVATED AREAS.
- REMOVE FROM SITE ALL MATERIALS NOT REQUIRED.

EARTHWORK

- EXCAVATE AS REQUIRED AND REMOVE FROM SITE MATERIALS NOT REQUIRED FOR BACKFILL OR GRADING.
- BACKFILLING WILL NOT BE PERMITTED UNTIL MAIN FLOOR STRUCTURE IS IN PLACE AND BASEMENT FLOOR SLABS HAVE BEEN POURED AND CURED.
- BACKFILL WITH MATERIALS AS INDICATED:

1" PASSING	100%
3/4"	70-90%
No. 4	40-75%
No. 10	20-55%
No. 40	10-35%
No. 200	5-15%

 MIN. CRUSHED FACE MATERIALS 25%
- AROUND WEeping TILE: FREE DRAINING CLEAN GRANULAR FILL.
- COMPACTION (STANDARD PROCTOR DRY DENSITY 95%)
 - SUBGRADE: 95%
 - WALLS, BEAMS, ETC.: 90%
 - UNDER SLAB ON-GRADE: 100%
- GRADE AND FILL SITE TO MATCH EXISTING SITE ELEVATIONS SHOWN ALLOWING FOR TOPSOIL, PLANTING OR PAVEMENTS. SLOPE AWAY FROM STRUCTURE.
- FILL IN 8" (200 mm) LIFTS (LOOSE) AND COMPACT EACH LIFT TO REQUIRED DENSITY.
- PLACE TOPSOIL TO FOLLOWING DEPTHS:
 - GRASSED AREAS: 4" (100 mm)
 - GRADE AND ROLL TOPSOIL TO ELEVATIONS SHOWN.
 - SOD OR SEED SITE, MAINTAIN GRASS UNTIL FIRMLY ESTABLISHED.

FOUNDATIONS

- ALL BUILDING PILES ARE EXISTING AND ARE TO REMAIN. EXISTING PILE REINFORCING EXTENDING INTO EXISTING GRADE BEAM IS TO BE PROTECTED DURING DEMOLITION. CONTRACT ADMINISTRATOR TO REVIEW THE CONDITION AND TYPE OF PILE REINFORCING BEFORE CONTRACTOR BEGINS THE FORMWORK FOR THE NEW GRADE BEAMS.

CAST-IN-PLACE CONCRETE

- ALL CONCRETE TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH LATEST EDITION OF CSA A23.1 AND CSA A23.2.
- CONCRETE STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:
 - GRADE BEAMS:
 - 30 MPa;
 - SLUMP MAX. 90 mm;
 - AGGREGATE MAX. 20 mm;
 - ENTRAINED AIR 3-5%
 - SLABS ON-GRADE:
 - 30 MPa;
 - SLUMP MAX. 90 mm;
 - AGGREGATE MAX. 20 mm;
 - ENTRAINED AIR; 3-5% (NOTE: SLABS THAT WILL REQUIRE A HARDENER TO HAVE 1% AIR ENTRAINMENT)
- AIR ENTRAINING ADMIXTURES SHALL CONFORM TO REQUIREMENTS OF CSA A266.4.
- PROVIDE 1" OF SIKA GROUT 212 BELOW ALL STEEL FRAME BASE PLATES.

REINFORCING STEEL

- ALL REINFORCING STEEL TO BE CSA G30.12 M 400 MPa DEFORMED BARS EXCEPT STIRRUPS WHICH MAY BE 300 MPa GRADE STEEL. ALL REINFORCING TO BE DETAILED IN ACCORDANCE WITH LATEST EDITION OF ACI DETAILING MANUAL, UNLESS OTHERWISE NOTED. REINFORCING STEEL COVER TO CONFORM TO LATEST EDITION OF CSA A23.3 AND AS FOLLOWS:
 - SLABS (TOP AND BOTTOM): 1 IN. (25 mm)
 - GRADE BEAMS (SIDES & TOPS) 1 1/2 IN. (40 mm)
 - GRADE BEAMS (BOTTOM) 3 IN. (75 mm)
- IN GRADE BEAMS BEND HORIZONTAL STEEL 18" (460 mm) AROUND CORNERS, OR USE EXTRA CORNER BARS 36" (900 mm) LONG.
- ALL OPENINGS IN CONCRETE WALLS TO HAVE 2-15 M BARS EACH SIDE AND 2-25 M BARS OVER OPENING, EXCEPT WHERE NOTED OTHERWISE. PROVIDE MINIMUM 18" (460 mm) DEEP BEAM OVER OPENING C/W 10 M STIRRUPS AT 12" (300 mm) O.C.
- BOTTOM STEEL IN CONCRETE BEAMS TO BE BUTT SPliced OVER SUPPORT, TOP STEEL TO BE LAPPED AT CENTRE SPAN UNLESS NOTED OTHERWISE.
- ALL REINFORCING TO BE HELD IN PLACE AND TIED WITH PROPER ACCESSORIES, SUCH AS HI-CHAIRS AND SPACERS. SUPPLY AND DETAIL ALL ACCESSORIES. HI-CHAIRS TO HAVE 4 LEGS AND TO BE STAPLED OR NAILED TO THE FORMWORK.
- ALL OPENINGS THROUGH CAST-IN-PLACE CONCRETE TO BE TRIMMED WITH 2-15 M EXTENDING A MINIMUM OF 24 IN. (600 mm) PAST OPENING UNLESS NOTED OTHERWISE.
- CONTRACTOR TO PROVIDE SHOP DRAWING DETAILING ALL THE REINFORCING BAR TO THE CONTRACT ADMINISTRATOR FOR REVIEW. PREPARE REINFORCEMENT DRAWING IN ACCORDANCE WITH ACI318R - MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES.

FORMWORK

- USE 6" (150 mm) CARDBOARD VOID FORM WRAPPED IN POLYETHYLENE SHEETS AS BOTTOM FORM FOR GRADE BEAMS AT GRADE. ACCESSORIES SUCH AS HI-CHAIRS, SPACERS, ETC. SHALL BE SUPPORTED USING PADS OF PLYWOOD OR TEMPERED FIBREBOARD TO PREVENT PUNCTURING FORM.
- PROVIDE 1/2" (12 mm) ASPHALT IMPREGATED FIBREBOARD SLIP JOINT BETWEEN CONCRETE SLABS ON GRADE AND STRUCTURAL MEMBERS.
- ALL CONSTRUCTION JOINTS TO HAVE KEY MINIMUM 1 1/2" (40 mm) DEEP.
- ALL STRUCTURAL SLABS FRAMING INTO WALL TO HAVE KEY MINIMUM 2" (50 mm) DEEP.
- ALL CONCRETE BEAMS FRAMING INTO WALLS TO HAVE KEY MINIMUM 4" (100 mm) DEEP BY HEIGHT AND WIDTH OF BEAM.
- PLACE 6 MIL. (0.15 mm) POLYETHYLENE UNDER ALL SLABS ON FILL.
- ALL MISCELLANEOUS PADS AND CURBS TO BE REINFORCED WITH MINIMUM 10 M AT 18" (450 mm) O.C. EACH WAY, TOP UNLESS NOTED OTHERWISE.

ROUGH CARPENTRY

- WALL STUDS AND PLATES TO BE GROUP D #2 OR BETTER, (SPF). ALL WOOD TO BE KILN DRIED.
- ALL WALLS TO BE ADEQUATELY BRACED UNTIL FLOOR STRUCTURE IS INSTALLED.
- BOTTOM PLATE AT MAIN FLOOR TO BE BOLTED TO FOUNDATION WITH MINIMUM OF 1/2" (13 mm) DIAMETER BOLTS X 8" (200 mm) LONG SPACED AT 48" (1200 mm) O.C. MAXIMUM.
- NAILING PATTERNS AND LENGTHS TO CONFORM TO REQUIREMENTS OF PART 9 OF NATIONAL BUILDING CODE OF CANADA.

RIGID INSULATION

- MATERIAL: STYROFOAM HI-40 OR APPROVED EQUAL.
- INSULATION ON GRADE: LAY ON LEVEL, EVEN SUB-GRADE, SLOPE AWAY FROM BUILDING.

RAIL INSULATION

- MATERIAL: FIBREGLASS, FRICTION FIT, UNFACED.
- VAPOUR BARRIER: 6 MIL. (15 mm) POLYETHYLENE. TAPE SEAL ALL JOINTS AND JUNCTIONS.
- INSTALL INSULATION TO MAINTAIN CONTINUITY OF THERMAL BARRIER, FIT TIGHT TO PENETRATIONS, DO NOT COMPRESS.
- INSTALL VAPOUR BARRIER ON WARM SIDE OF INSULATION COMPLETELY SEAL BY TAPING JOINTS AND PATCHING TEARS AND PENETRATIONS.

DRYWALL

- MATERIAL: CSA A82.27, PLAIN, SQUARE CUT ENDS, TAPERED EDGES, PAPER FACED, 1/2" THICK.
- INSTALL HORIZONTALLY IN WALLS.
- SCREW SPACING: 7" O/C IN CEILING, 8" O/C IN WALLS. SCREW 1 1/2" LONG DRYWALL SCREWS.
- TAPE AND FILL JOINTS, FILL SCREW HEAD, TO PROVIDE SMOOTH FINISHED SURFACE.

PAINTING

- GYPHUM WALLBOARD:
 - 1 COAT DRYWALL PRIMER
 - 2 COATS SEMI-GLOSS INTERIOR LATEX
 - COLOUR TO BE DETERMINED BY CONTRACT ADMINISTRATOR
- WOOD
 - 1 COAT PRIMER
 - 2 COATS SEMI-GLOSS ALKYD ENAMEL
 - COLOUR TO BE DETERMINED BY CONTRACT ADMINISTRATOR

CEILING TILE

- STEEL 2' X 4' EXPOSED "T" BAR SUSPENSION SYSTEM, MATCHING ANGLE TRIM.
- MINERAL FIBRE TILES, PERFORATED TO MATCH EXISTING.
- INSTALL LEVEL AND SQUARE.

FLOORING

- REINFORCED VINYL TILE, 12" X 12" X 1/8" TO MATCH EXISTING. PROVIDE SAMPLES TO CONTRACT ADMINISTRATOR FOR APPROVAL PRIOR TO ORDERING MATERIALS.
- BASE: 6" HIGH, RUBBER BASE, COLOUR TO BE DETERMINED BY CONTRACT ADMINISTRATOR. PROVIDE SAMPLES TO CONTRACT ADMINISTRATOR FOR APPROVAL PRIOR TO ORDERING MATERIALS.
- ADHESIVE: WATERPROOF AS RECOMMENDED BY PRODUCT MANUFACTURER.
- PREPARE SUBSTRATE AND INSTALL NEW FLOOR TILES IN ACCORDANCE WITH MANUFACTURERS' WRITTEN RECOMMENDATIONS.

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ENG SEAL

ARCH SEAL

PROJECT

CITY OF WINNIPEG
ASSINIBOIA WEST COMMUNITY CENTER

SHEET TITLE

861 BUCHANAN BOULEVARD
STRUCTURAL REPAIRS
SECTIONS

DRAWN BY	CHECKED BY	DATE	SHEET NO.
RK	PG	JAN 8 2008	S04
DESIGNED BY	CHECKED BY	SCALE	REVISION NO.
PG	PG	AS SHOWN	1

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