

CUT OPENING FOR NEW EXTERIOR TYPE DOOR & PROVIDE LINTEL SEE NOTE NO. 13.

TIE NEW CONCRETE TO EXISTING W/ 1-10M ROD 200mm LONG & MIN. 100mm INTO WALL EVERY OTHER COURSE

UNDERPINNING NUMBERS INDICATE SEQUENCE OF WORK

SEE B01b

WALL INSULATION SEE NOTE NO.10

RSI 1.76 RIGID INSUL. TO MIN. 600mm BELOW GRADE

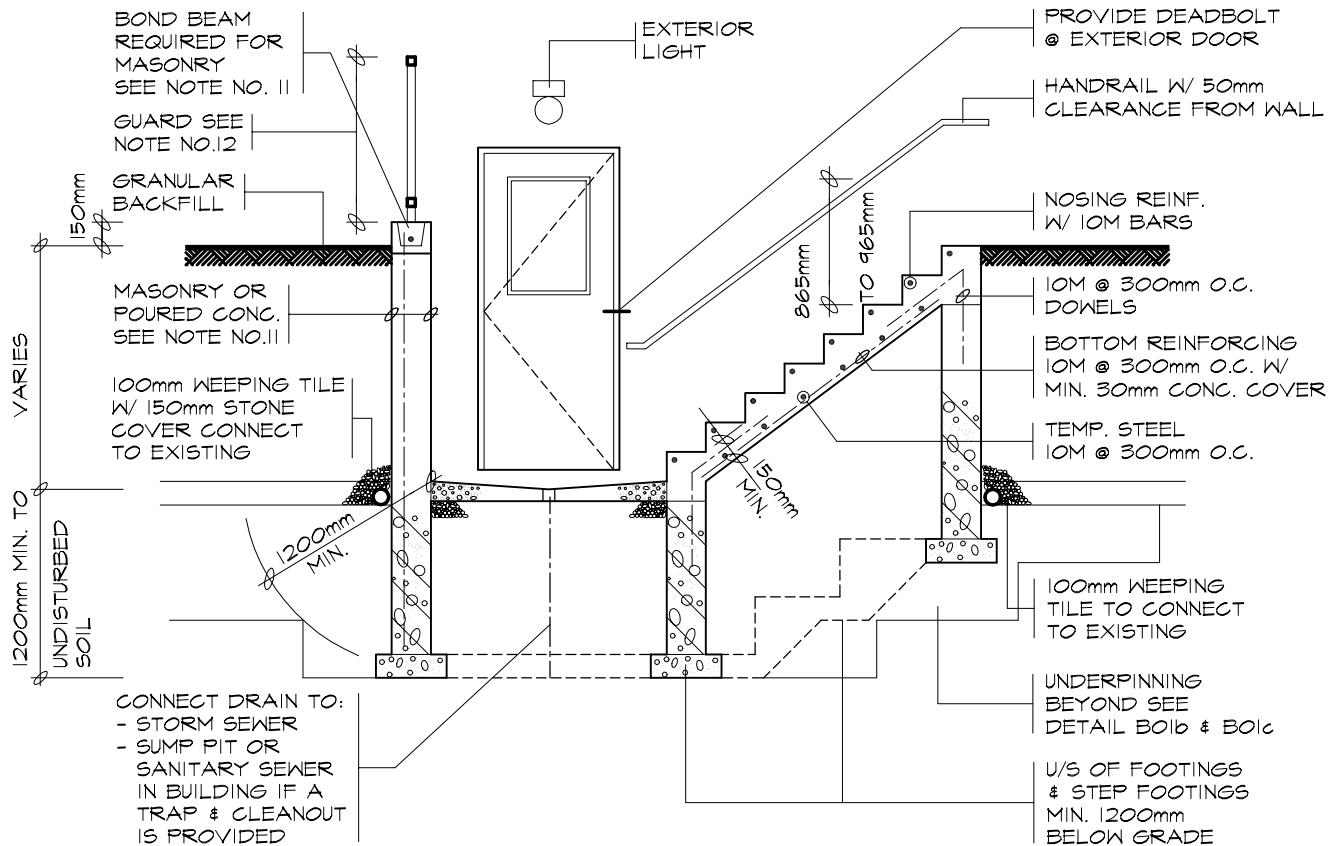
FLOOR DRAIN

NEW GUARD SEE SECTION 'A'

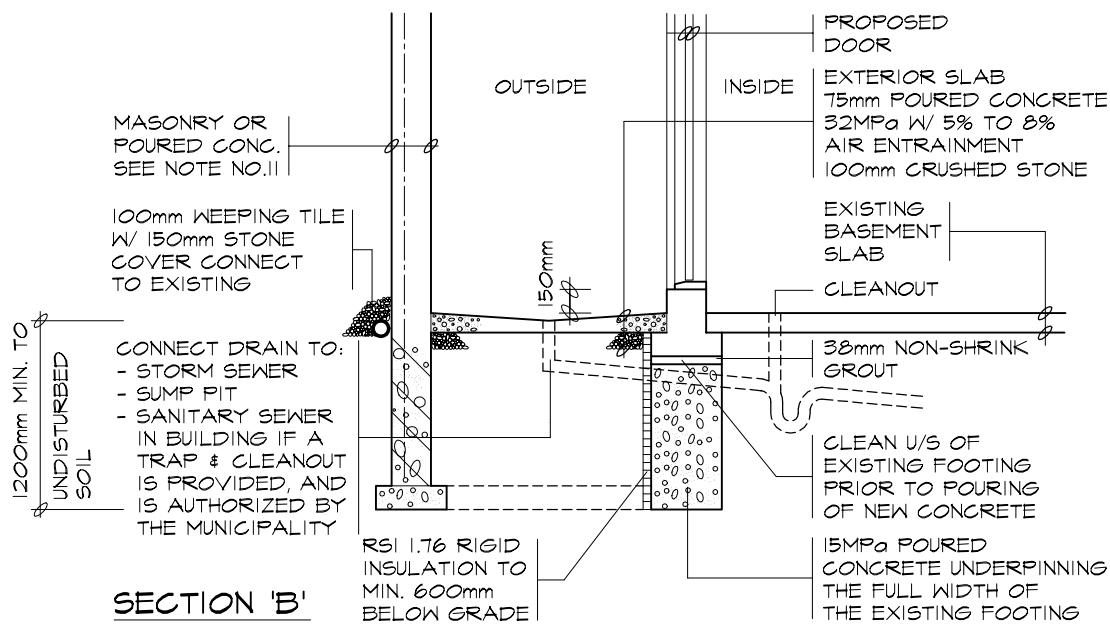
CONNECT NEW WEeping TILE TO EXISTING

POURED CONCRETE SLAB & STEPS 32MPa W/ 5%-8% AIR ENTRAINMENT

PLAN



SECTION 'A'



SECTION 'B'

**LMCBO
STANDARD
DETAILS**

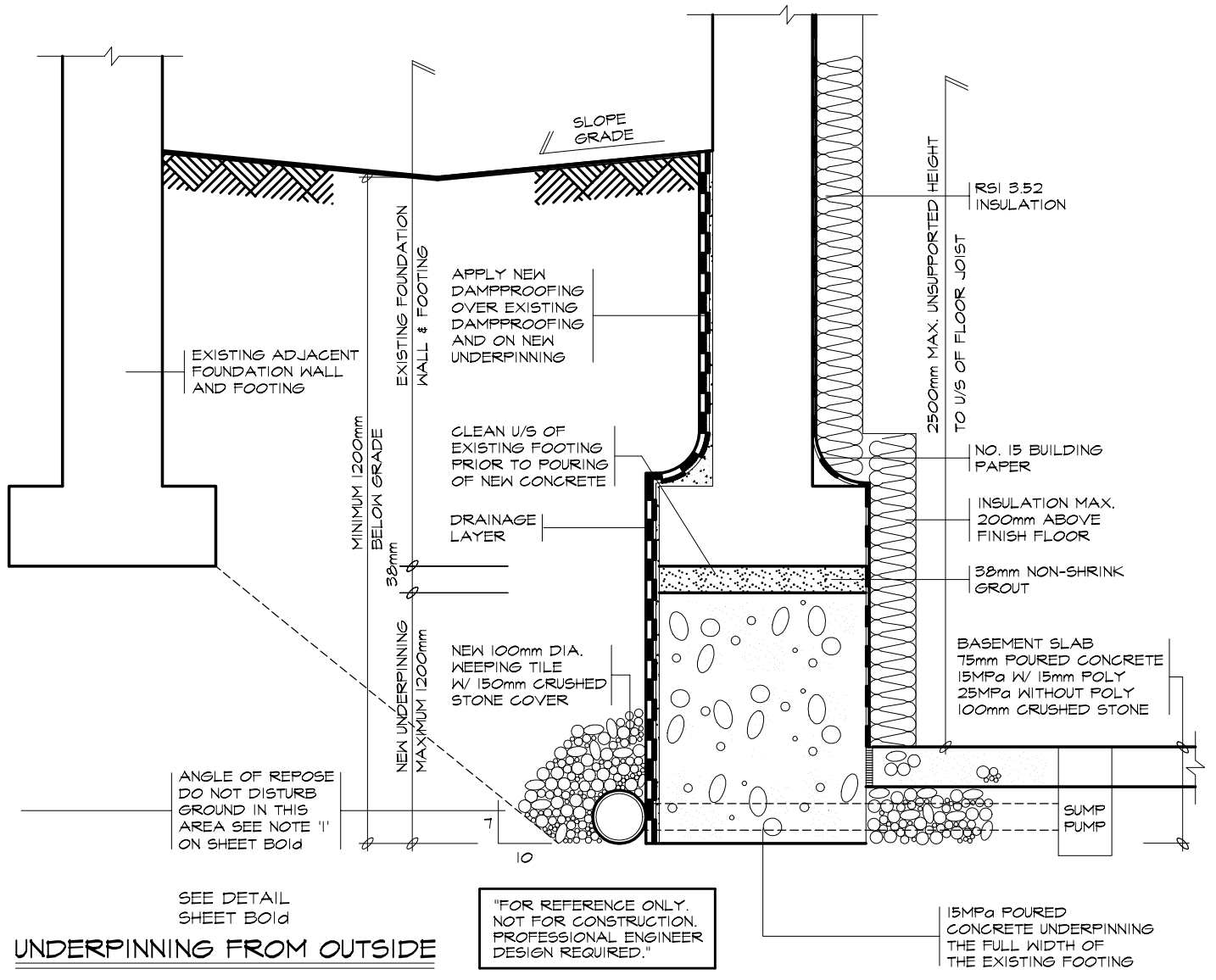
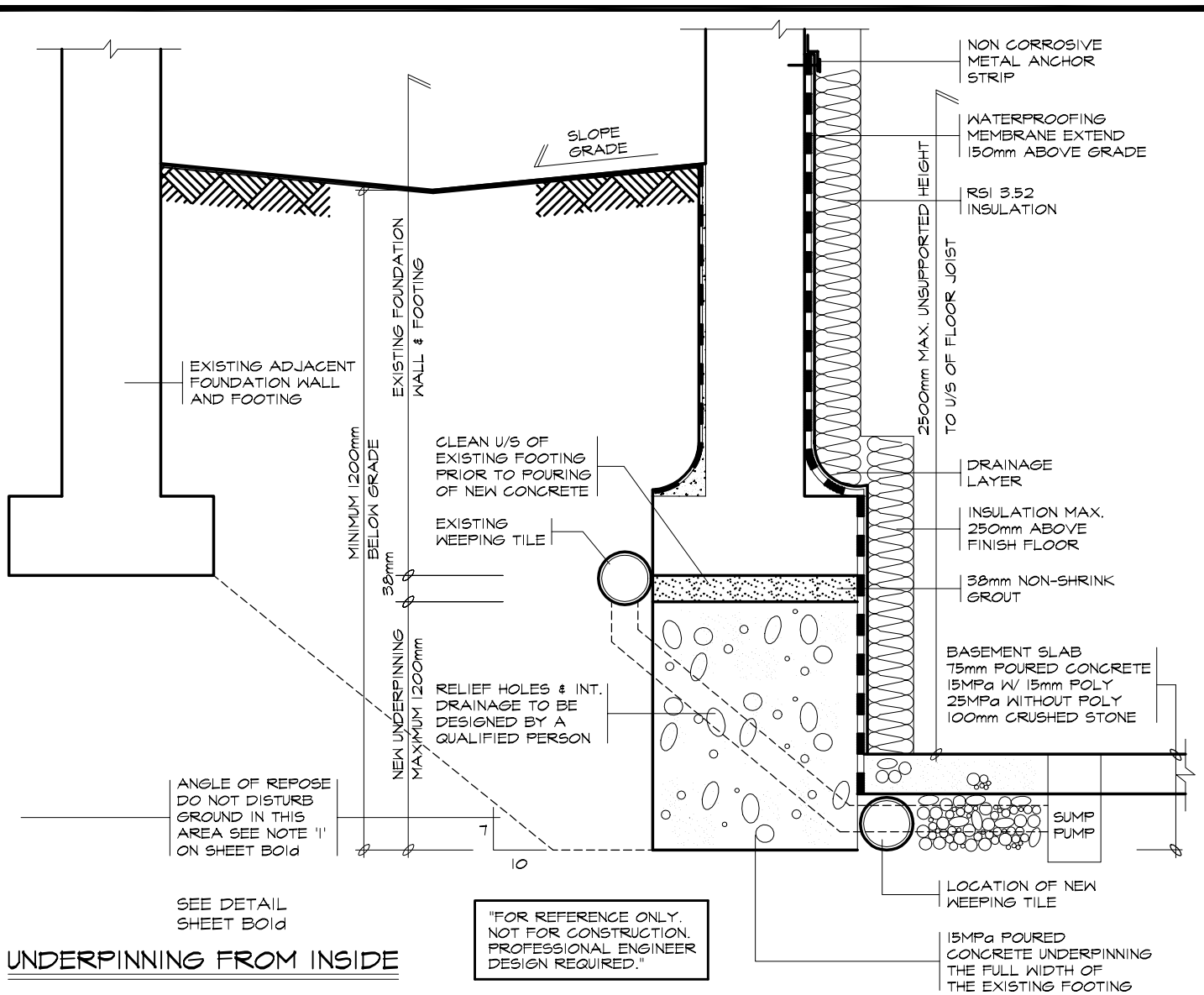
TITLE
BASEMENT WALKOUT PLAN & SECTIONS

DWG. NO.

NOTE: UNDER THE BUILDING CODE ACT, THE LOCAL MUNICIPALITY IS THE AUTHORITY HAVING JURISDICTION FOR ENFORCING THE ACT AND ITS REGULATIONS. IT IS THE RESPONSIBILITY OF THE OWNER/DESIGNER TO ENSURE THAT ALL DESIGNS SUBMITTED FOR A PERMIT ARE IN ACCORDANCE WITH THE BUILDING CODE ACT, BUILDING CODE AND ANY OTHER APPLICABLE LAW.

B01a

2012



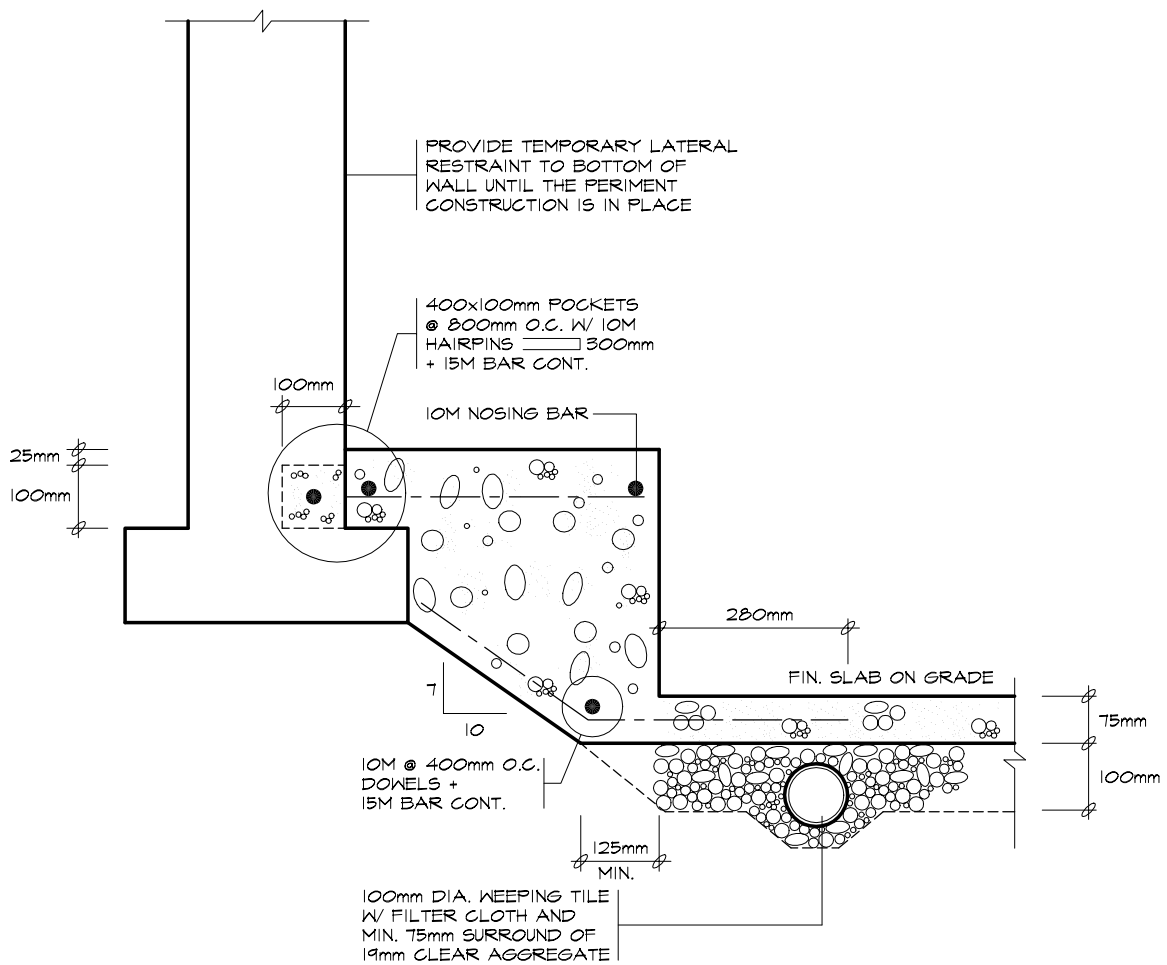
**LMCBO
STANDARD
DETAILS**

TITLE
UNDERPINNING SECTIONS

DWG. NO.

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GENERAL NOTES

1. EXCAVATION FOR THE PROPOSED WORK SHOULD NOT UNDERMINE THE FOUNDATIONS OF ADJOINING BUILDINGS, OR CAUSE DAMAGE TO UTILITIES, ROADS AND SIDEWALKS. A MAXIMUM 7:10 ANGLE OF REPOSE SHALL BE MAINTAINED UNLESS OTHERWISE CERTIFIED BY A GEOTECHNICAL ENGINEER
2. PROVIDE ALL BRACING, SHORING AND NEEDLING NECESSARY FOR THE SAFE EXECUTION OF THIS WORK.
3. CONCRETE STRENGTH SHALL BE A MINIMUM 15MPa AT 28 DAYS

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NOT FOR CONSTRUCTION.
PROFESSIONAL ENGINEER
DESIGN REQUIRED."

LOWERING OF BASEMENT FLOOR SLAB FROM INSIDE

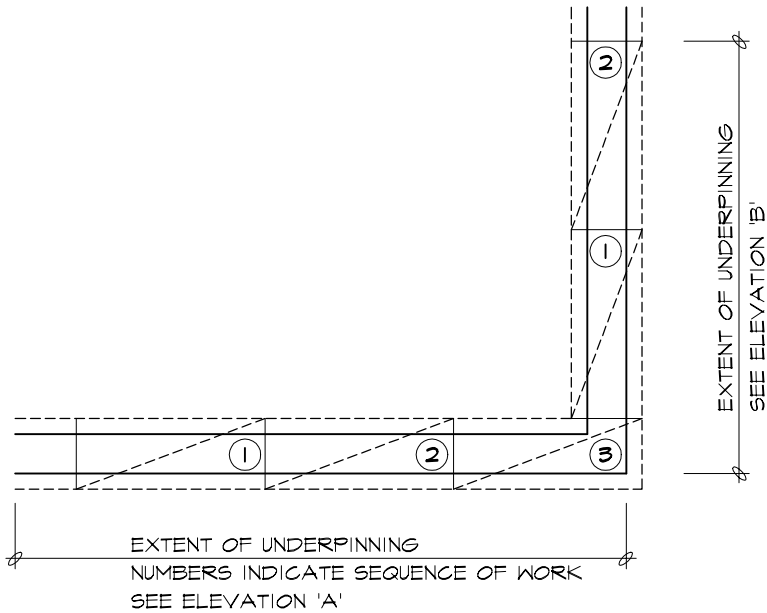
**LMCBO
STANDARD
DETAILS**

TITLE
BENCH-TYPE UNDERPINNING SECTIONS, NOTES

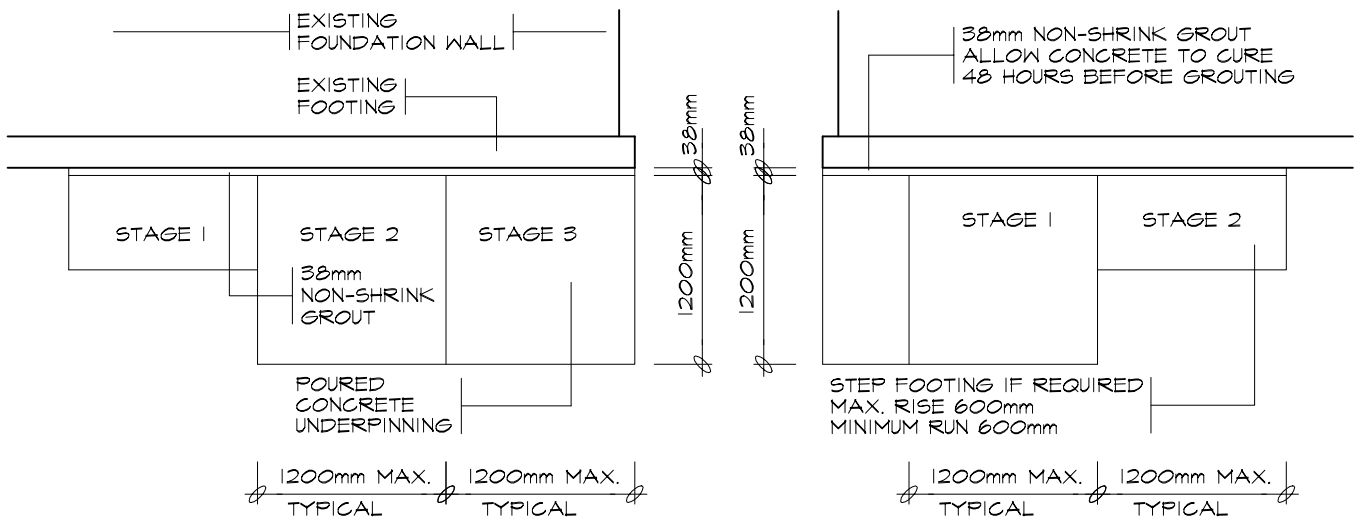
DWG. NO.

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PLAN



ELEVATION 'A'

ELEVATION 'B'

GENERAL NOTES

1. WHERE THE FOUNDATIONS OF A BUILDING ARE TO BE CONSTRUCTED BELOW THE LEVEL OF THE FOOTINGS OF AN ADJACENT BUILDING AND WITHIN THE ANGLE OF REPOSE OF THE SOIL, OR THE UNDERPINNING EXCEEDS 1200mm OF Laterally UNSUPPORTED HEIGHT OR THE SOIL IS CLAY OR SILT, THE UNDERPINNING & RELATED CONSTRUCTION SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER.
2. EXCAVATION SHALL BE UNDERTAKEN IN A MANNER SO AS TO PREVENT MOVEMENT WHICH WOULD CAUSE DAMAGE TO ADJACENT PROPERTY, STRUCTURES, UTILITIES, ROADS & SIDEWALKS. CONTACT YOUR LOCAL UTILITIES PRIOR TO COMMENCING EXCAVATION.
3. MINIMUM CONCRETE STRENGTH FOR UNDERPINNING SHALL BE 15MPa AT 28 DAYS. ALL EXTERIOR CONCRETE SHALL BE 32MPa W/ 5%-8% AIR ENTRAINMENT.
4. CONCRETE SHALL BE CURED MINIMUM 48 HOURS BEFORE GROUTING AND PROCEEDING TO THE NEXT STAGE.
5. SHORE & BRACE WHERE NECESSARY TO ENSURE THE SAFETY & STABILITY OF THE EXISTING STRUCTURE DURING UNDERPINNING.
6. KEEPING TILE IS TO DRAIN TO THE STORM SEWER, DITCH, DRYWELL OR INSTALL COVERED SUMP PIT WITH AN AUTOMATIC PUMP.
7. FOOTINGS
450mmx100mm POURED CONC. FOOTING
ALL FOOTINGS SHALL REST ON NATURAL UNDISTURBED SOIL OR COMPACTED GRANULAR FILL

8. CONCRETE

MINIMUM COMPRESSIVE STRENGTH OF 32MPa @ 28 DAYS W/ 5% TO 8% AIR ENTRAINMENT

9. EXTERIOR STAIRS

200mm RISE MAXIMUM 125mm MINIMUM
210mm RUN MINIMUM 355mm MAXIMUM
235mm TREAD MINIMUM 355mm MAXIMUM

10. INSULATION

- MIN. RSI 4.23 (R24) INSULATION & VAPOUR BARRIER ON THE INSIDE FACE OF THE EXPOSED FOUNDATION WALL
- MIN. RSI 1.76 (R10) INSULATION FOR 600mm BELOW GRADE AT WALKOUT LANDING

11. RETAINING WALL

250mm MASONRY OR POURED CONCRETE W/ NO REINFORCING REQUIRED FOR WALL HEIGHTS TO A MAX. OF 1200mm PROVIDE 25M VERTICAL REINFORCEMENT @ 600mm O.C. AND A BOND BEAM CONTAINING AT LEAST ONE 15M REINFORCEMENT FOR BACKFILL HEIGHTS TO A MAX. OF 2400mm

12. PRE-ENGINEERED GUARDS

1070mm HIGH WHERE DISTANCE FROM GRADE TO BOTTOM OF WALKOUT EXCEEDS 1800mm; 900mm FOR LESSER HEIGHTS. MAXIMUM 100mm BETWEEN VERTICAL PICKETS

13. LINTELS (FOR MAX. 1200mm OPENINGS)

1. SOLID MASONRY: 2- 90mmx90mmx6mm ANGLES
2. BRICK VENEER: 1- 90mmx90mmx6mm L + 2-38x184
3. WOOD FRAME/SIDING: 2-38x184

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**LMCBO
STANDARD
DETAILS**

TITLE
UNDERPINNING PLAN, ELEVATIONS & NOTES

DWG. NO.

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