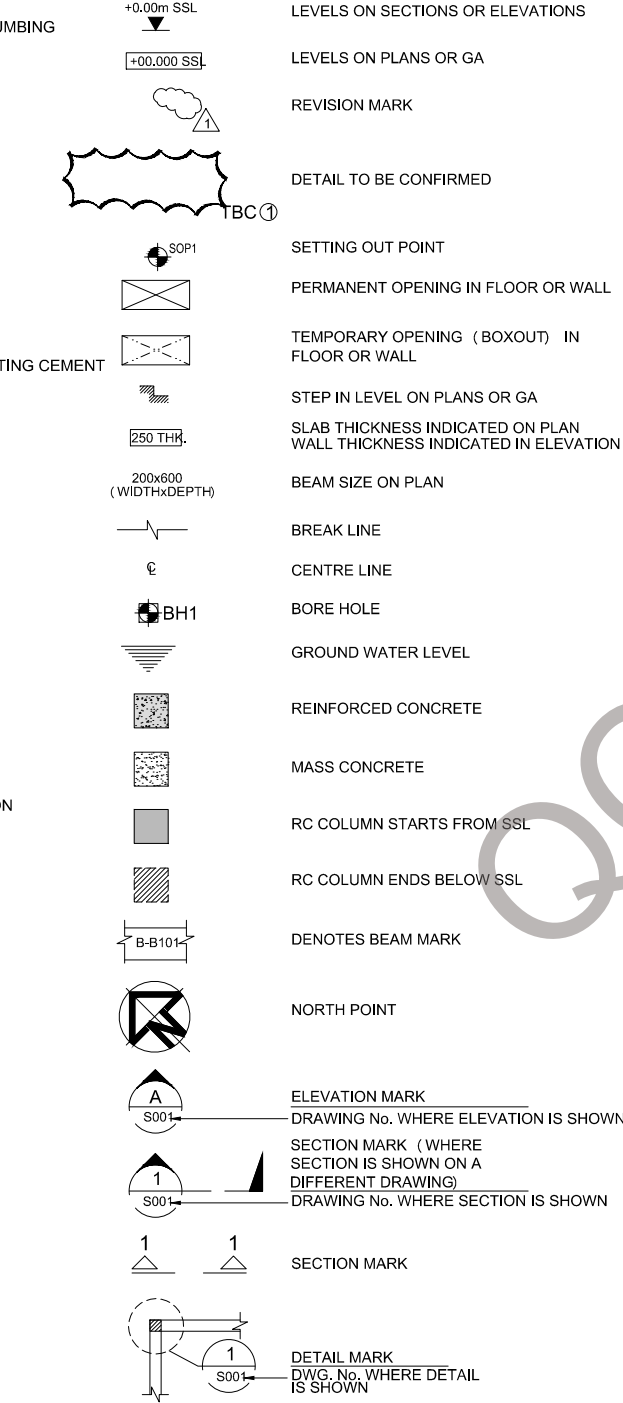


0.0 CIVIL AND STRUCTURAL ABBREVIATIONS

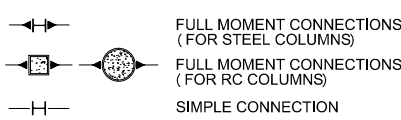
APPROX = APPROXIMATELY  
ABR = ALT. BARS REVERSED  
ABS = ALT. BARS STAGGERED  
A, BOLT = ANCHOR BOLT  
ADJ = ADJUSTABLE  
ALT = ALTERNATE  
ARCH = ARCHITECTURAL  
BCE = BOTTOM CHORD EXTENSION  
BLDG = BUILDING  
BM = BEAM  
B, BOT = BOTTOM  
BRDG = BRIDGING  
BSMT = BASEMENT  
B PL = BASE (BEARING) PLATE  
BP = BASE POINT  
BS = BRITISH STANDARD  
C/C = CENTRE TO CENTRE  
CRS = CENTRES  
C = CENTRE LINE  
CANT = CANTILEVER  
CL = CLEAR  
Cf = COMPRESSIVE FORCE, kN  
Cf (E) = COMPRESSIVE FORCE, kN DUE TO EARTHQUAKE.  
CH PL = CHEQUERED PLATE  
CHS = CIRCULAR HOLLOW SECTION  
CSK = COUNTER SUNK  
CHAM = CHAMFERED  
C = COLUMN  
CONC = CONCRETE  
CONSTR = CONSTRUCTION  
CONT = CONTINUOUS  
C/W = CONNECT WITH  
CJ = CONSTRUCTION JOINT  
CG = CENTRE OF GRAVITY  
DET = DETAIL  
DEG = DEGREES  
DIAG = DIAGONAL  
DIA, Ø = DIAMETER  
DIM = DIMENSION  
D = DEPTH  
DP = DEEP  
DL = DEAD LOAD  
DWG (S) = DRAWING (S)  
DWL (S) = DOWEL (S)  
DSB = DOWNSTAND BEAM  
DN = DOWN  
EA = EACH  
EE = EACH END  
EF = EACH FACE  
EGL = EXISTING GROUND LEVEL  
EL = ELEVATION LEVEL  
ELEV = ELEVATION  
ELECT = ELECTRICAL  
EQ = EQUAL  
ES = EACH SIDE  
EW = EACH WAY  
EXTG = EXISTING  
EJ = EXPANSION JOINT  
EXT = EXTERIOR  
EXTF = EXTERNAL FACE  
E-W = EAST-WEST  
FPBW = FULL PENETRATION BUTT WELD  
FDN = FOUNDATION  
FF = FAR FACE  
FFL = FINISHED FLOOR LEVEL  
FGL = FINISHED GROUND LEVEL  
FIN = FINISHED  
FL = FLOOR  
FTG, F = FOOTING  
FW = FILLET WELD  
GA = GENERAL ARRANGEMENT  
GALV = GALVANIZED  
GL = GROUND LEVEL  
GEN = GENERAL  
GAG = GAUGE  
GWT = GROUND WATER TABLE  
H, HORZ = HORIZONTAL  
Hf = HORIZONTAL FORCE, kN  
HSC = HORIZONTALLY SLOTTED CONNECTION  
HSFG = HIGH STRENGTH FRICTION GRIP  
IF = INSIDE FACE  
IJ = ISOLATION JOINT  
INT = INTERIOR / INTERNAL  
J = JOINT  
kg = KILOGRAM  
kN = KILO NEWTON  
kN-m = KILO NEWTON METRE  
kN/m<sup>2</sup> = KN PER SQUARE METRE  
kN/m = KILO NEWTON PER METRE  
kPa = KILO PASCAL  
L = LINTEL  
LG = LONG  
LL = LIVE LOAD  
LLV = LONG LEG VERTICAL  
LLH = LONG LEG HORIZONTAL

MAX = MAXIMUM  
MEP = MECHANICAL ELECTRICAL & PLUMBING  
MECH = MECHANICAL  
MEZZ = MEZZANINE  
MIN = MINIMUM  
MISC = MISCELLANEOUS  
ML = MIDDLE LAYER  
MOM = MOMENT  
Mxx (E) = BENDING MOMENT ABOUT X-X AXIS, kN-m DUE TO EARTHQUAKE  
Myy (E) = BENDING MOMENT ABOUT Y-Y AXIS, kN-m DUE TO EARTHQUAKE  
Mxx = BENDING MOMENT ABOUT X-X AXIS, kN-m  
Myy = BENDING MOMENT ABOUT Y-Y AXIS, kN-m  
m = METRE  
mm = MILLIMETRE  
MPa = MEGAPASCAL  
MN = MEGA NEWTON  
MSRC = MODERATELY SULPHATE RESISTING CEMENT  
NOM = NOMINAL  
N = NEWTON  
NF = NEAR FACE  
NO. = NUMBER  
NTS = NOT TO SCALE  
N-S = NORTH-SOUTH  
OWSJ = OPEN WEB STEEL JOIST  
OF = OUTSIDE FACE  
OPEN = OPENING  
O/A = OVER ALL  
PL = PLATE  
Pa = PASCAL  
PROJ = PROJECTION  
P/O = PERMANENT OPENING  
PRS = PAIRS  
RAD = REACTION, RADIUS  
Rf = VERTICAL REACTION, kN  
REF = REFERENCE  
RW = RETAINING WALL  
RC = REINFORCED CONCRETE  
REFT = REINFORCEMENT  
REINF = REINFORCE  
RHS = RECTANGULAR HOLLOW SECTION  
RSA = ROLLED STEEL ANGLE  
RSC = ROLLED STEEL CHANNEL  
RSJ = ROLLED STEEL JOIST  
REQD = REQUIRED  
REV = REVISION, REVISED  
R/W = REINFORCE WITH  
SECT = SECTION  
SF = STRIP FOOTING  
S = SLAB  
SHS = SQUARE HOLLOW SECTION  
SL = SLAB  
SOP = SETTING OUT POINT  
SOG = SLAB ON GRADE  
SPECS = SPECIFICATIONS  
STD = STANDARD  
STRUCT = STRUCTURAL  
SQ = SQUARE  
ST = STAIR  
STG = STAGGERED  
T = TOP  
Ta = TENSION ANCHORAGE  
TM (E) = TORSIONAL MOMENT, kN-m DUE TO EARTHQUAKE  
TF (E) = TENSION FORCE, kN DUE TO EARTHQUAKE  
THK = THICKNESS  
TM = TORSIONAL MOMENT, kN-m  
Tf = TENSION FORCE, kN  
TEMP = TEMPERATURE / TEMPORARY  
TD = TYPICAL DETAIL  
TJ = TRANGULAR JOINT  
TYP = TYPICAL  
TOC = TOP OF CONCRETE  
TOS = TOP OF STEEL  
T/O = TEMPORARY OPENING  
UB = UNIVERSAL BEAM  
UC = UNIVERSAL COLUMN  
UL = UPPER LAYER  
UNO = UNLESS NOTED OTHERWISE  
U/S = UNDERSIDE  
USB = UPSTAND BEAM  
V, VERT = VERTICAL  
Vf = VERTICAL SHEAR, kN  
VXB = VERTICAL CROSS BRACING  
VSC = VERTICALLY SLOTTED CONNECTION  
WWF = WELDED WIRE FABRIC, WELDED WIDE FLANGE.  
W = WIDE , WALL

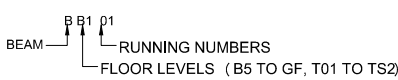
STANDARD SYMBOLS



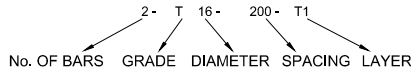
STRUCTURAL STEEL WORK SYMBOLS



BEAM NUMBERING TO BE READ AS FOLLOWS



REBAR MARKERS TO BE READ AS FOLLOWS:



LEGEND:

----- BOTTOM / FAR FACE BAR

NOTES:

REFERENCE DRAWINGS AND DOCUMENTS

No. REVISIONS APP'D DATE

CLIENT

TITLE  
STANDARD DRAWINGS  
STORM WATER WORKS

DRAWING TITLE  
STANDARD DETAILS  
STRUCTURAL ABBREVIATIONS  
AND SYMBOLS

DRAWN	-	SCALE	NTS
CHECKED	-	DATE	-
APPROVED	-	SIZE	A1
PROJECT No.	-	DWG. No.	1002