ABBREVIATIONS

ABBREVIATION	WORD OR PHASE
ASD	ALLOWABLE STRESS DESIGN
ALT.	ALTERNATE
ACI	AMERICAN CONCRETE INSITITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
AB	ANCHOR BOLT
ARCH.	ARCHITECT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
@	AT RATE OF
BAL.	BALANCE
BM	BEAM
B OR BOT.	BOTTOM
BEW	BOTTOM EACH WAY
B.E.	BOUNDARY ELEMENT
BSMT.	BASEMENT
CIP	CAST-IN-PLACE
CG	CENTER OF GRAVITY
CTRD.	CENTERED
℄ OR CL	CENTERLINE
CO	CLEAN OUT
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CMU	CONCRETE MASONRY UNIT
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CONN.	CONNECTION
CONST.	CONSTRUCTION
CONST. JT.	CONSTRUCTION JOINT
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CY	CUBIC YARD
CONT.	CONTINUOUS
DEPR.	DEPRESSION
DET.	DETAIL
DIA. OR ø	DIAMETER
DIM.	DIMENSION
DIR.	DIRECTION
DO.	DITTO
DWLS	DOWELS
DN	DOWN
DWG	DRAWING
EA.	EACH
EE	EACH END
EF	EACH FACE
ES	EACH SIDE
EW	EACH WAY
E	EAST
EL.	ELEVATION
ELEV.	ELEVATOR
EOD	EDGE OF DECK
EOR	ENGINEER OF RECORD
EOS	EDGE OF SLAB
EQ.	EQUAL
EX.	EXISTING
EXP. BOLT	EXPANSION BOLT
EXP. JT OR EJ	EXPANSION JOINT
EXT.	EXTERIOR
FF	FAR FACE
FT OR '	FEET
FIN.	FINISH
FIN. FL.	FINISH FLOOR
FL	FLOOR
FD	FLOOR DRAIN
FTG.	FOOTING
FND	FOUNDATION
FP	FULL PENETRATION WELD
FY	YIELD STRENGTH OF STEEL
GALV.	GALVANIZED
GA	GAUGE
G.C.	GENERAL CONTRACTOR
GENL	GENERAL
GR.	GRADE
GB	GRADE BEAM
HP	HIGH POINT
HS	HIGH STRENGTH
HSS	HOLLOW STRUCTURAL SECTION
H OR HORIZ	HORIZONTAL
HEF	HORIZONTAL EACH FACE

ABBREVIATION	WORD OR PHASE
HIF	HORIZONTAL INSIDE FACE
HOF	HORIZONTAL OUTSIDE FACE
IN. OR "	INCH
INCL.	INCLUSIVE OR INCLUDING
INFO.	INFORMATION
JT	JOINT
K	KIP (1000 POUNDS)
KSF	KIPS/SQUARE FOOT
LBS	POUNDS
LE	LEFT END
LW	LIGHTWEIGHT
LWC	LIGHTWEIGHT CONCRETE
LRFD	LOAD & RESISTANCE FACTOR DESIGN
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LSH	LONG SLOTTED HOLE
MFR	MANUFACTURER
MATL	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
NF	NEAR FACE
NWC	NORMAL WEIGHT CONCRETE
N	NORTH
NTS	NOT TO SCALE
NO. OR #	NUMBER
O.C.	ON CENTER
O.H.	OPPOSITE HAND
OPNG	OPENING
PCI	PRECAST CONCRETE INSTITUTE
PCS	PIECES
PL. OR LP	PLATE
PVC	POLYVINYL CHLORIDE
PSF	POUNDS/SQUARE FOOT
PSI	POUNDS/SQUARE INCH
PC.	PRECAST
REF.	REFERENCE
REINF.	REINFORCE OR REINFORCEMENT
REM.	REMAINDER
RE	RIGHT END
RD	ROOF DRAIN
RO	ROUGH OPENING
S.A.D.	SEE ARCHITECTURAL DRAWINGS
SECT.	SECTION
SER	STRUCTURAL ENGINEER OF RECORD
SC	SHEAR CONNECTOR OR SLIP CRITICAL BOLT
SHT	SHEET
SLV	SHORT LEG VERTICAL
SIM.	SIMILAR
SPA.	SPACES
SOG	SLAB-ON-GRADE
S	SOUTH
SQ.	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
SDI	STEEL DECK INSTITUTE
STIFF	STIFFENER
STR.	STRUCTURAL
SP	SUMP PIT
SUP	SUPPORT
SYM	SYMMETRICAL
SCHED.	SCHEDULE
T	TOP
T & B	TOP & BOTTOM
TEMP	TEMPERATURE OR TEMPORARY
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP.	TYPICAL
UON	UNLESS OTHERWISE NOTED
V OR VERT.	VERTICAL
VEF	VERTICAL EACH FACE
VIF	VERTICAL INSIDE FACE
V.I.F.	VERIFY IN FIELD
VOF	VERTICAL OUTSIDE FACE
WWF	WELDED WIRE REINFORCEMENT
WWR	WELDED WIRE REINFORCEMENT
W	WEST
W/	WITH
WP	WORKING POINT

SYMBOL LEGEND

- BEAM TO COLUMN MOMENT CONNECTION (PART OF LATERAL FORCE RESISTING SYSTEM)
- BEAM TO COLUMN CANTILEVER MOMENT CONNECTION
- BEAM TO BEAM CANTILEVER MOMENT CONNECTION
- STANDARD BEAM CONNECTION
- BEAM TO CONC. FOUNDATION WALL CONNECTION USING EMBED PLATE
- DIRECTION OF DECK SPAN
- P_u = FACTORED AXIAL FORCE ON MEMBER (KIPS)
- V_u = FACTORED SHEAR FORCE ON MEMBER (KIPS)
- M_u = FACTORED MOMENT ON MEMBER (KIP-FEET)
- ℄ CENTERLINE
- <N>, (N) NUMBER OF HEADED SHEAR STUDS
- C = AMOUNT OF BEAM CAMBER
- SLAB INFILL
- NEW CAST IN PLACE CONCRETE
- SLAB OR ROOF DECK OPENING
- COMPACTED FILL OR UNDISTURBED SOIL
- GRANULAR FILL
- INDICATES COLUMN STARTS AT THIS LEVEL
- INDICATES COLUMN STOPS AT THIS LEVEL
- INDICATES COLUMN CONTINUES
- [00'-0"] INDICATES BOTTOM OF FOOTING ELEVATION
- BEAM PENETRATION

General Notes:

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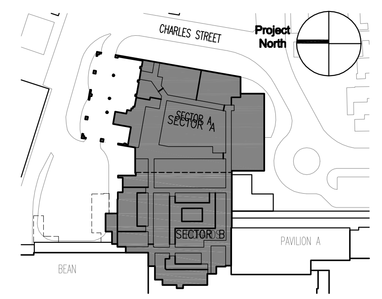

Key Plan

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